

Supplementary File 1. The complete list of HAN-specific nsSNPs

| Chr | Position | ID | REF | ALT | Codon | Amino acid change | Gene | Transcript_ID |
|-----|-------------|-------------|-----|-----|---------|------------------------|--------------------|--------------------|
| 1 | 3,082,169 | rs209608633 | A | G | Acc/Gcc | p.Thr305Ala/c.913A>G | SCAF4 | ENSBTAT00000025104 |
| 1 | 4,955,871 | rs109517566 | A | G | Atc/Gtc | p.Ile111Val/c.331A>G | KRTAP24-1 | ENSBTAT00000063306 |
| 1 | 37,808,456 | rs109321353 | C | G | gGt/gCt | p.Gly559Ala/c.1676G>C | PROS1 | ENSBTAT00000032377 |
| 1 | 42,095,848 | rs110127404 | A | G | Aat/Gat | p.Asn154Asp/c.460A>G | ENSBTAG00000022908 | ENSBTAT00000008047 |
| 1 | 42,767,463 | rs43229741 | T | C | Atc/Gtc | p.Ile179Val/c.535A>G | DCBLD2 | ENSBTAT00000019822 |
| 1 | 44,124,239 | rs43232395 | A | G | aAt/aGt | p.Asn267Ser/c.800A>G | CMSS1 | ENSBTAT00000018160 |
| 1 | 44,657,432 | rs43050079 | T | C | aAg/aGg | p.Lys665Arg/c.1994A>G | EFHB | ENSBTAT00000061194 |
| 1 | 45,636,985 | rs136975400 | T | C | Aaa/Gaa | p.Lys118Glu/c.352A>G | ENSBTAG00000048157 | ENSBTAT00000021766 |
| 1 | 57,279,738 | rs110399411 | C | T | tCa/tTa | p.Ser38Leu/c.113C>T | C3orf52 | ENSBTAT00000022018 |
| 1 | 66,788,454 | rs43240800 | T | G | aAc/aCc | p.Asn2119Thr/c.6356A>C | GOLGB1 | ENSBTAT00000011669 |
| 1 | 66,788,455 | rs43240801 | T | A | Aac/Tac | p.Asn2119Tyr/c.6355A>T | GOLGB1 | ENSBTAT00000011669 |
| 1 | 70,784,086 | rs109715703 | T | G | Att/Ctt | p.Ile35Leu/c.103A>C | LMLN | ENSBTAT00000061181 |
| 1 | 70,784,160 | rs110521929 | A | C | gTc/gGc | p.Val10Gly/c.29T>G | LMLN | ENSBTAT00000061181 |
| 1 | 71,016,832 | rs109572634 | T | C | Ttt/Ctt | p.Phe97Leu/c.289T>C | KIAA0226 | ENSBTAT00000061001 |
| 1 | 71,079,020 | rs133282725 | A | G | Aaa/Gaa | p.Lys296Glu/c.886A>G | MUC20 | ENSBTAT00000015160 |
| 1 | 71,105,876 | rs109704859 | T | C | Act/Gct | p.Thr649Ala/c.1945A>G | MUC4 | ENSBTAT00000019591 |
| 1 | 71,117,960 | rs110695194 | C | T | Gcg/Acg | p.Ala143Thr/c.427G>A | MUC4 | ENSBTAT00000019591 |
| 1 | 80,251,288 | rs17870997 | A | G | Aaa/Gaa | p.Lys47Glu/c.139A>G | SST | ENSBTAT00000023020 |
| 1 | 84,033,144 | rs137553859 | G | C | Gtc/Ctc | p.Val15Leu/c.43G>C | ENSBTAG00000014449 | ENSBTAT00000019214 |
| 1 | 84,428,011 | rs42820807 | G | C | gaC/gaG | p.Asp70Glu/c.210C>G | B3GNT5 | ENSBTAT00000052404 |
| 1 | 99,124,783 | rs109365090 | A | G | aAc/aGc | p.Asn693Ser/c.2078A>G | MECOM | ENSBTAT00000007717 |
| 1 | 103,164,202 | rs43257729 | A | T | Agg/Tgg | p.Arg1320Trp/c.3958A>T | SI | ENSBTAT00000023366 |
| 1 | 114,144,944 | rs42223544 | A | G | Act/Gct | p.Thr236Ala/c.706A>G | GPR149 | ENSBTAT00000008088 |
| 1 | 128,532,777 | rs110597097 | T | C | Att/Gtt | p.Ile1199Val/c.3595A>G | ZBTB38 | ENSBTAT00000052575 |
| 1 | 138,084,824 | rs137771776 | G | A | aGt/aAt | p.Ser532Asn/c.1595G>A | ACAD11 | ENSBTAT00000054042 |
| 1 | 143,864,921 | rs43277842 | G | T | tGc/tTc | p.Cys418Phe/c.1253G>T | UMODL1 | ENSBTAT00000043589 |
| 1 | 143,997,412 | rs110829356 | T | C | Tca/Cca | p.Ser86Pro/c.256T>C | ABCG1 | ENSBTAT00000028342 |
| 1 | 145,848,744 | rs43280326 | A | G | Atc/Gtc | p.Ile517Val/c.1549A>G | TRPM2 | ENSBTAT00000029198 |
| 1 | 150,064,353 | rs137212409 | C | A | Ctg/Atg | p.Leu212Met/c.634C>A | ENSBTAG00000023384 | ENSBTAT00000031838 |
| 1 | 150,064,440 | rs210566526 | T | C | Tcc/Ccc | p.Ser241Pro/c.721T>C | ENSBTAG00000023384 | ENSBTAT00000031838 |
| 1 | 152,403,659 | rs209263012 | G | T | aaC/aaA | p.Asn210Lys/c.630C>A | ERG | ENSBTAT00000014608 |
| 2 | 6,736,017 | rs134186279 | A | G | Atg/Gtg | p.Met218Val/c.652A>G | SLC40A1 | ENSBTAT00000048226 |
| 2 | 25,063,857 | rs135304051 | T | C | Agt/Ggt | p.Ser173Gly/c.517A>G | DCAF17 | ENSBTAT00000010105 |
| 2 | 44,771,350 | rs108992629 | A | G | aTa/aCa | p.Ile1986Thr/c.5957T>C | RIF1 | ENSBTAT00000027997 |
| 2 | 62,407,285 | rs41637228 | A | G | aAc/aGc | p.Asn583Ser/c.1748A>G | ZRANB3 | ENSBTAT00000038374 |
| 2 | 89,749,104 | rs109089512 | G | A | aGc/aAc | p.Ser788Asn/c.2363G>A | ENSBTAG00000038878 | ENSBTAT00000065376 |
| 2 | 89,754,760 | rs110260576 | A | G | Aca/Gca | p.Thr1090Ala/c.3268A>G | ENSBTAG00000038878 | ENSBTAT00000065376 |
| 2 | 89,759,150 | rs109157439 | C | T | gCg/gTg | p.Ala1122Val/c.3365C>T | ENSBTAG00000038878 | ENSBTAT00000065376 |
| 2 | 107,370,352 | rs43320333 | T | C | Tgc/Cgc | p.Cys471Arg/c.1411T>C | STK36 | ENSBTAT00000038254 |
| 2 | 107,412,129 | rs43313905 | T | C | cTg/cCg | p.Leu31Pro/c.92T>C | TLL4 | ENSBTAT00000024502 |
| 2 | 107,412,386 | rs43313903 | A | C | Ata/Cta | p.Ile117Leu/c.349A>C | TLL4 | ENSBTAT00000024502 |
| 2 | 119,029,831 | rs136683624 | T | C | cTt/cCt | p.Leu216Pro/c.647T>C | ENSBTAG00000007280 | ENSBTAT00000009573 |
| 2 | 119,109,955 | rs110480812 | C | T | aGc/aAc | p.Ser148Asn/c.443G>A | SP110 | ENSBTAT00000020915 |
| 2 | 119,795,709 | rs109006741 | T | C | Tca/Cca | p.Ser173Pro/c.517T>C | ARMC9 | ENSBTAT00000024631 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 2 | 121,711,663 | rs42309919 | C | A | Ctg/Atg | p.Leu514Met/c.1540C>A | YARS | ENSBTAT00000024051 |
| 2 | 123,237,438 | rs134375684 | G | A | Gga/Agg | p.Gly42Arg/c.124G>A | SDC3 | ENSBTAT00000038035 |
| 2 | 127,359,441 | rs109833128 | A | G | gAg/gGg | p.Glu248Gly/c.743A>G | ZNF683 | ENSBTAT00000012691 |
| 2 | 127,362,043 | rs109350984 | G | A | Gtt/Att | p.Val439Ile/c.1315G>A | ZNF683 | ENSBTAT00000012691 |
| 2 | 127,362,086 | rs109201878 | G | T | tGc/tTc | p.Cys453Phe/c.1358G>T | ZNF683 | ENSBTAT00000012691 |
| 2 | 127,362,393 | rs109640433 | T | G | Tgg/Ggg | p.Trp515Gly/c.1543T>G | ZNF683 | ENSBTAT00000012691 |
| 2 | 127,377,626 | rs110942459 | G | T | cGg/cTg | p.Arg491Leu/c.1472G>T | AIM1L | ENSBTAT00000037934 |
| 2 | 127,394,703 | rs109200184 | C | G | caC/caG | p.His1514Gln/c.4542C>G | AIM1L | ENSBTAT00000037934 |
| 2 | 133,182,088 | rs42928821 | T | A | aaT/aaA | p.Asn94Lys/c.282T>A | PLA2G2D3 | ENSBTAT00000032588 |
| 2 | 133,291,746 | rs109073882 | A | G | gAt/gGt | p.Asp21Gly/c.62A>G | PLA2G2A | ENSBTAT00000007570 |
| 2 | 133,292,151 | rs110494619 | A | G | aAa/aGa | p.Lys72Arg/c.215A>G | PLA2G2A | ENSBTAT00000007570 |
| 2 | 133,294,953 | rs108954429 | A | C | aAg/aCg | p.Lys128Thr/c.383A>C | PLA2G2A | ENSBTAT00000007570 |
| 3 | 8,445,867 | rs110174322 | A | G | Act/Gct | p.Thr72Ala/c.214A>G | ARHGAP30 | ENSBTAT00000023764 |
| 3 | 8,463,006 | rs132981682 | A | G | Act/Gct | p.Thr65Ala/c.193A>G | TSTD1 | ENSBTAT00000023735 |
| 3 | 8,686,020 | rs109022308 | T | C | Tgg/Cgg | p.Trp186Arg/c.556T>C | ITLN2 | ENSBTAT00000013594 |
| 3 | 8,889,868 | rs109920094 | T | C | gTg/gCg | p.Val191Ala/c.572T>C | ENSBTAG00000010458 | ENSBTAT00000013826 |
| 3 | 11,610,785 | rs109498050 | C | G | Gta/Cta | p.Val230Leu/c.688G>C | ENSBTAG00000037546 | ENSBTAT00000054597 |
| 3 | 11,727,194 | rs110969567 | C | A | Gcc/Tcc | p.Ala85Ser/c.253G>T | CD1E | ENSBTAT00000038392 |
| 3 | 11,727,350 | rs110068260 | C | G | Gtg/Ctg | p.Val33Leu/c.97G>C | CD1E | ENSBTAT00000038392 |
| 3 | 11,995,423 | rs210996599 | C | T | Ggg/Agg | p.Gly202Arg/c.604G>A | CD1A | ENSBTAT00000009739 |
| 3 | 11,995,528 | rs478231727 | G | A | Caa/Taa | p.Gln167*/c.499C>T | CD1A | ENSBTAT00000009739 |
| 3 | 11,995,674 | rs110065214 | G | C | cCc/cGc | p.Pro118Arg/c.353C>G | CD1A | ENSBTAT00000009739 |
| 3 | 11,996,378 | rs133164776 | A | T | aTg/aAg | p.Met89Lys/c.266T>A | CD1A | ENSBTAT00000009739 |
| 3 | 11,996,538 | rs132748411 | C | T | Gaa/Aaa | p.Glu36Lys/c.106G>A | CD1A | ENSBTAT00000009739 |
| 3 | 14,286,546 | rs109801477 | A | G | cAg/cGg | p.Gln184Arg/c.551A>G | GPATCH4 | ENSBTAT00000033914 |
| 3 | 14,286,726 | rs109324844 | A | G | cAg/cGg | p.Gln244Arg/c.731A>G | GPATCH4 | ENSBTAT00000033914 |
| 3 | 14,286,771 | rs110823042 | T | C | aTa/aCa | p.Ile259Thr/c.776T>C | GPATCH4 | ENSBTAT00000033914 |
| 3 | 14,286,885 | rs209666172 | G | A | aGg/aAg | p.Arg297Lys/c.890G>A | GPATCH4 | ENSBTAT00000033914 |
| 3 | 14,286,936 | rs133388741 | A | G | gAa/gGa | p.Glu314Gly/c.941A>G | GPATCH4 | ENSBTAT00000033914 |
| 3 | 14,411,769 | rs210533410 | A | G | Atc/Gtc | p.Ile416Val/c.1246A>G | MEF2D | ENSBTAT00000066030 |
| 3 | 15,080,726 | rs109478785 | G | A | Gag/Aag | p.Glu1552Lys/c.4654G>A | ENSBTAG00000020356 | ENSBTAT00000027126 |
| 3 | 16,097,275 | rs132833170 | T | C | Aaa/Gaa | p.Lys254Glu/c.760A>G | TDRD10 | ENSBTAT00000015765 |
| 3 | 17,883,645 | rs109416672 | G | C | Caa/Gaa | p.Gln309Glu/c.925C>G | IVL | ENSBTAT00000023700 |
| 3 | 19,048,207 | rs109342730 | A | G | Act/Gct | p.Thr235Ala/c.703A>G | TDRKH | ENSBTAT00000028777 |
| 3 | 19,532,074 | rs110213506 | C | A | cCc/cAc | p.Pro224His/c.671C>A | PI4KB | ENSBTAT00000009627 |
| 3 | 19,721,732 | rs110497434 | A | G | Atg/Gtg | p.Met95Val/c.283A>G | SEMA6C | ENSBTAT00000009575 |
| 3 | 19,811,302 | rs108958479 | T | C | Tat/Cat | p.Tyr4His/c.10T>C | FAM63A | ENSBTAT00000033792 |
| 3 | 20,191,884 | rs137735321 | A | G | tTg/tCg | p.Leu483Ser/c.1448T>C | ADAMTSL4 | ENSBTAT00000004686 |
| 3 | 20,770,732 | rs209339830 | G | T | aCc/aAc | p.Thr95Asn/c.284C>A | ENSBTAG00000040098 | ENSBTAT00000053588 |
| 3 | 23,469,814 | rs137388363 | T | G | Tct/Gct | p.Ser1582Ala/c.4744T>G | NOTCH2 | ENSBTAT00000010400 |
| 3 | 23,469,815 | rs135191826 | C | A | tCt/tAt | p.Ser1582Tyr/c.4745C>A | NOTCH2 | ENSBTAT00000010400 |
| 3 | 39,114,194 | rs110083562 | T | C | Aca/Gca | p.Thr254Ala/c.760A>G | ENSBTAG00000015180 | ENSBTAT00000020198 |
| 3 | 45,830,139 | rs134749204 | C | T | Cat/Tat | p.His238Tyr/c.712C>T | DPYD | ENSBTAT00000007139 |
| 3 | 49,636,018 | rs109664115 | A | G | Aag/Gag | p.Lys1037Glu/c.3109A>G | ABCA4 | ENSBTAT00000023982 |
| 3 | 54,607,129 | rs134573471 | G | T | caG/caT | p.Gln476His/c.1428G>T | ENSBTAG00000037634 | ENSBTAT00000056121 |
| 3 | 54,608,122 | rs208524731 | C | G | Cag/Gag | p.Gln551Glu/c.1651C>G | ENSBTAG00000037634 | ENSBTAT00000056121 |
| 3 | 59,272,631 | rs109745895 | T | C | aTa/aCa | p.Ile295Thr/c.884T>C | MCOLN3 | ENSBTAT00000022589 |
| 3 | 81,614,105 | rs43344732 | T | A | Aca/Tca | p.Thr171Ser/c.511A>T | UBE2U | ENSBTAT00000054674 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 3 | 95,583,153 | rs210402514 | A | C | gaA/gaC | p.Glu363Asp/c.1089A>C | TTC39A | ENSBTAT00000003183 |
| 3 | 99,926,046 | rs457292542 | A | T | Aag/Tag | p.Lys388*/c.1162A>T | CYP4A22 | ENSBTAT00000017936 |
| 3 | 103,422,821 | rs43362127 | G | C | tGt/tCt | p.Cys16Ser/c.47G>C | EBNA1BP2 | ENSBTAT00000028708 |
| 3 | 107,243,463 | rs134844203 | C | T | Gcc/Acc | p.Ala1123Thr/c.3367G>A | bta-mir-2416 | ENSBTAT00000063146 |
| 3 | 107,245,808 | rs110068747 | T | G | tAt/tCt | p.Tyr341Ser/c.1022A>C | bta-mir-2416 | ENSBTAT00000063146 |
| 3 | 120,080,518 | rs42992081 | G | A | cGc/cAc | p.Arg127His/c.380G>A | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 3 | 120,081,022 | rs42992061 | A | C | tAc/tCc | p.Tyr295Ser/c.884A>C | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 3 | 120,081,052 | rs42992059 | C | T | gCc/gTc | p.Ala305Val/c.914C>T | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 3 | 120,081,058 | rs42992058 | G | A | cGg/cAg | p.Arg307Gln/c.920G>A | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 4 | 7,400,857 | rs209781005 | C | G | agG/agC | p.Arg3185Ser/c.9555G>C | ABCA13 | ENSBTAT00000061018 |
| 4 | 29,474,101 | rs42356839 | A | C | agA/agC | p.Arg153Ser/c.459A>C | ABCB5 | ENSBTAT00000031698 |
| 4 | 32,623,675 | rs42557056 | T | C | Att/Gtt | p.Ile316Val/c.946A>G | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,627,839 | rs42557089 | G | A | aCt/aTt | p.Thr238Ile/c.713C>T | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,862,523 | rs379218588 | G | T | ttC/ttA | p.Phe211Leu/c.633C>A | SLC25A40 | ENSBTAT00000047578 |
| 4 | 33,050,302 | rs42556059 | A | G | Att/Gtt | p.Ile336Val/c.1006A>G | ABCB1 | ENSBTAT00000020806 |
| 4 | 66,275,941 | rs42935035 | T | C | Tgc/Cgc | p.Cys6Arg/c.16T>C | NOD1 | ENSBTAT00000061183 |
| 4 | 70,211,855 | rs110389782 | T | C | atA/atG | p.Ile676Met/c.2028A>G | NFE2L3 | ENSBTAT00000005413 |
| 4 | 70,212,276 | rs109522259 | T | C | cAa/cGa | p.Gln536Arg/c.1607A>G | NFE2L3 | ENSBTAT00000005413 |
| 4 | 72,836,984 | rs133448500 | C | A | atG/atT | p.Met189Ile/c.567G>T | STEAP4 | ENSBTAT00000030838 |
| 4 | 73,610,448 | rs43408404 | G | A | aCa/aTa | p.Thr289Ile/c.866C>T | ENSBTAG00000015800 | ENSBTAT00000020986 |
| 4 | 73,610,710 | rs211272083 | T | A | Act/Tct | p.Thr207Ser/c.619A>T | ENSBTAG00000015800 | ENSBTAT00000020986 |
| 4 | 106,459,729 | rs134858851 | C | T | Ccc/Tcc | p.Pro3Ser/c.7C>T | TRB@ | ENSBTAT00000017687 |
| 4 | 106,459,760 | rs110617776 | T | A | cTc/cAc | p.Leu13His/c.38T>A | TRB@ | ENSBTAT00000017687 |
| 4 | 106,472,919 | rs381387548 | A | T | cAc/cTc | p.His5Leu/c.14A>T | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,473,092 | rs207903776 | A | C | aAg/aCg | p.Lys34Thr/c.101A>C | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,473,136 | rs42994317 | G | A | Gac/Aac | p.Asp49Asn/c.145G>A | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,474,538 | rs209282304 | G | A | Gac/Aac | p.Asp49Asn/c.145G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,544 | rs210907277 | G | A | Gtg/Atg | p.Val51Met/c.151G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,614 | rs209865929 | T | C | aTg/aCg | p.Met74Thr/c.221T>C | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,615 | rs210572761 | G | A | atG/atA | p.Met74Ile/c.222G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,523,525 | rs43419601 | C | G | Ccc/Gcc | p.Pro56Ala/c.166C>G | ENSBTAG00000038690 | ENSBTAT00000053610 |
| 4 | 106,523,599 | rs432369816 | C | T | Cga/Tga | p.Arg80*/c.238C>T | ENSBTAG00000038690 | ENSBTAT00000053610 |
| 4 | 106,541,865 | rs461181900 | C | G | Caa/Gaa | p.Gln85Glu/c.253C>G | ENSBTAG00000038307 | ENSBTAT00000052905 |
| 4 | 106,541,879 | rs209747773 | C | G | gaC/gaG | p.Asp89Glu/c.267C>G | ENSBTAG00000038307 | ENSBTAT00000052905 |
| 4 | 106,550,120 | rs136117939 | C | A | Cgc/Agc | p.Arg92Ser/c.274C>A | ENSBTAG00000040261 | ENSBTAT00000050415 |
| 4 | 106,552,605 | rs136301638 | C | A | Cag/Aag | p.Gln104Lys/c.310C>A | ENSBTAG00000038127 | ENSBTAT00000053963 |
| 4 | 106,883,051 | rs109667221 | A | G | gAg/gGg | p.Glu144Gly/c.431A>G | TRBV29-1 | ENSBTAT00000064277 |
| 4 | 108,083,311 | rs134338219 | A | G | Aac/Gac | p.Asn193Asp/c.577A>G | OR2A12 | ENSBTAT00000055484 |
| 4 | 108,448,796 | rs110442766 | A | C | agA/agC | p.Arg74Ser/c.222A>C | ARHGEF5 | ENSBTAT00000002373 |
| 4 | 113,486,269 | rs43415882 | A | G | cAg/cGg | p.Gln480Arg/c.14399A>G | ENSBTAG00000008542 | ENSBTAT00000043975 |
| 4 | 113,696,392 | rs109565987 | T | G | Tta/Gta | p.Leu535Val/c.1603T>G | GIMAP8 | ENSBTAT00000065457 |
| 4 | 113,696,573 | rs457365460 | C | A | gCa/gAa | p.Ala595Glu/c.1784C>A | GIMAP8 | ENSBTAT00000065457 |
| 4 | 113,696,641 | rs109585623 | A | G | Aaa/Gaa | p.Lys618Glu/c.1852A>G | GIMAP8 | ENSBTAT00000065457 |
| 4 | 113,763,408 | rs467852972 | T | C | cAt/cGt | p.His297Arg/c.890A>G | ENSBTAG00000039588 | ENSBTAT00000057366 |
| 4 | 113,764,083 | rs109067167 | A | G | aTg/aCg | p.Met72Thr/c.215T>C | ENSBTAG00000039588 | ENSBTAT00000057366 |
| 4 | 113,912,149 | rs132796098 | C | T | aGc/aAc | p.Ser7Asn/c.20G>A | GIMAP7 | ENSBTAT00000014926 |
| 4 | 113,912,157 | rs382855124 | A | C | atT/atG | p.Ile4Met/c.12T>G | GIMAP7 | ENSBTAT00000014926 |
| 4 | 113,954,575 | rs441410917 | G | A | gCc/gTc | p.Ala13Val/c.38C>T | GIMAP1 | ENSBTAT00000052584 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 4 | 114,492,757 | rs43416275 | G | A | gGt/gAt | p.Gly245Asp/c.734G>A | AGAP3 | ENSBTAT00000033398 |
| 4 | 119,142,532 | rs134859439 | T | C | Tca/Cca | p.Ser733Pro/c.2197T>C | NOM1 | ENSBTAT00000043572 |
| 4 | 119,161,971 | rs134872526 | T | A | Agc/Tgc | p.Ser29Cys/c.85A>T | MNX1 | ENSBTAT0000006046 |
| 4 | 120,157,221 | rs109353025 | A | T | tTc/tAc | p.Phe760Tyr/c.2279T>A | NCAPG2 | ENSBTAT00000021476 |
| 5 | 298,300 | rs109472879 | A | G | tTc/tCc | p.Phe342Ser/c.1025T>C | ENSBTAG00000027770 | ENSBTAT00000014687 |
| 5 | 6,433,775 | rs43425710 | C | T | Gct/Act | p.Ala753Thr/c.2257G>A | E2F7 | ENSBTAT00000022518 |
| 5 | 15,546,239 | rs135391607 | G | T | gaC/gaA | p.Asp374Glu/c.1122C>A | RASSF9 | ENSBTAT00000038601 |
| 5 | 30,663,785 | rs109638434 | T | C | aAg/aGg | p.Lys161Arg/c.482A>G | TROAP | ENSBTAT00000011203 |
| 5 | 38,386,154 | rs110835299 | T | C | Tac/Cac | p.Tyr673His/c.2017T>C | PRICKLE1 | ENSBTAT00000011340 |
| 5 | 44,448,143 | rs210236065 | C | A | aCa/aAa | p.Thr130Lys/c.389C>A | ENSBTAG00000000198 | ENSBTAT00000000231 |
| 5 | 44,505,495 | rs136103310 | C | T | aGt/aAt | p.Ser55Asn/c.164G>A | ENSBTAG00000039170 | ENSBTAT00000056893 |
| 5 | 44,505,520 | rs385016674 | C | T | Gtg/Atg | p.Val47Met/c.139G>A | ENSBTAG00000039170 | ENSBTAT00000056893 |
| 5 | 44,506,988 | rs379130920 | T | C | Atc/Gtc | p.Ile41Val/c.121A>G | ENSBTAG00000039170 | ENSBTAT00000056893 |
| 5 | 47,736,998 | rs110356806 | A | G | cAt/cGt | p.His82Arg/c.245A>G | FAU | ENSBTAT00000045066 |
| 5 | 50,174,719 | rs133958915 | T | C | Agc/Ggc | p.Ser55Gly/c.163A>G | TMEM5 | ENSBTAT00000006237 |
| 5 | 57,292,794 | rs134373282 | A | G | Atc/Gtc | p.Ile1000Val/c.2998A>G | TIMELESS | ENSBTAT00000027263 |
| 5 | 60,604,118 | rs29002687 | A | G | aAt/aGt | p.Asn162Ser/c.485A>G | AMDHD1 | ENSBTAT00000021647 |
| 5 | 60,604,166 | rs29002689 | A | G | cAg/cGg | p.Gln178Arg/c.533A>G | AMDHD1 | ENSBTAT00000021647 |
| 5 | 60,606,645 | rs137279356 | A | G | gAt/gGt | p.Asp236Gly/c.707A>G | AMDHD1 | ENSBTAT00000021647 |
| 5 | 65,924,592 | rs110977717 | A | T | tTt/tAt | p.Phe1098Tyr/c.3293T>A | GNPTAB | ENSBTAT00000025859 |
| 5 | 78,896,888 | rs137643963 | A | G | Atg/Gtg | p.Met428Val/c.1282A>G | DENND5B | ENSBTAT00000027075 |
| 5 | 94,091,069 | rs210935541 | C | T | tCg/tTg | p.Ser492Leu/c.1475C>T | SLC15A5 | ENSBTAT00000043043 |
| 5 | 97,490,933 | rs42312273 | A | G | gTt/gCt | p.Val430Ala/c.1289T>C | DDX47 | ENSBTAT00000003058 |
| 5 | 99,192,547 | rs110355369 | T | C | tTt/tCt | p.Phe78Ser/c.233T>C | BOTA-T2R10B | ENSBTAT00000043004 |
| 5 | 99,192,940 | rs110609472 | C | T | aCg/aTg | p.Thr209Met/c.626C>T | BOTA-T2R10B | ENSBTAT00000043004 |
| 5 | 99,778,962 | rs477133421 | T | C | Atg/Gtg | p.Met90Val/c.268A>G | NKG2A | ENSBTAT00000018811 |
| 5 | 101,582,551 | rs109424039 | T | G | cAa/cCa | p.Gln336Pro/c.1007A>C | RIMKLB | ENSBTAT00000004262 |
| 5 | 102,332,646 | rs43241474 | G | C | caG/caC | p.Gln320His/c.960G>C | ENSBTAG00000039847 | ENSBTAT00000028129 |
| 5 | 102,332,963 | rs43241464 | C | T | gCt/gTt | p.Ala426Val/c.1277C>T | ENSBTAG00000039847 | ENSBTAT00000028129 |
| 5 | 102,414,585 | rs208650795 | T | C | aTg/aCg | p.Met765Thr/c.2294T>C | ENSBTAG00000039817 | ENSBTAT00000055624 |
| 5 | 102,715,850 | rs109963918 | T | A | cTt/cAt | p.Leu178His/c.533T>A | BT.53519 | ENSBTAT00000056482 |
| 5 | 102,722,980 | rs134295235 | A | G | cAt/cGt | p.His258Arg/c.773A>G | BT.53519 | ENSBTAT00000056482 |
| 5 | 102,723,133 | rs136428127 | A | G | cAg/cGg | p.Gln309Arg/c.926A>G | BT.53519 | ENSBTAT00000056482 |
| 5 | 102,901,058 | rs136972157 | A | G | gAc/gGc | p.Asp160Gly/c.479A>G | ENSBTAG00000048175 | ENSBTAT00000052602 |
| 5 | 102,901,059 | rs137696049 | C | A | gaC/gaA | p.Asp160Glu/c.480C>A | ENSBTAG00000048175 | ENSBTAT00000052602 |
| 5 | 103,460,257 | rs136554056 | A | G | Tgc/Cgc | p.Cys20Arg/c.58T>C | BT.105910 | ENSBTAT00000034486 |
| 5 | 116,458,307 | rs110995763 | G | A | cGg/cAg | p.Arg348Gln/c.1043G>A | FAM118A | ENSBTAT00000013993 |
| 5 | 116,629,337 | rs207506848 | A | G | Acc/Gcc | p.Thr55Ala/c.163A>G | FBLN1 | ENSBTAT00000016040 |
| 6 | 32,766 | rs43136285 | A | G | aTa/aCa | p.Ile158Thr/c.473T>C | ENSBTAG00000040324 | ENSBTAT00000055066 |
| 6 | 26,045,538 | rs109826311 | T | G | gAa/gCa | p.Glu71Ala/c.212A>C | MGC157237 | ENSBTAT00000055953 |
| 6 | 32,225,787 | rs137093945 | C | T | gCg/gTg | p.Ala16Val/c.47C>T | ENSBTAG00000046473 | ENSBTAT00000063405 |
| 6 | 38,280,426 | rs110493242 | A | G | cTg/cCg | p.Leu371Pro/c.1112T>C | MEPE | ENSBTAT00000009958 |
| 6 | 46,286,602 | rs110524393 | A | G | Ttc/Ctc | p.Phe5Leu/c.13T>C | SEPSECS | ENSBTAT00000019464 |
| 6 | 79,125,553 | rs137629667 | G | C | Gtt/Ctt | p.Val353Leu/c.1057G>C | LPHN3 | ENSBTAT00000039682 |
| 6 | 93,366,296 | rs110907325 | T | C | tTg/tCg | p.Leu612Ser/c.1835T>C | SHROOM3 | ENSBTAT00000026154 |
| 6 | 94,970,617 | rs136858118 | A | G | Agt/Ggt | p.Ser2276Gly/c.6826A>G | FRAS1 | ENSBTAT00000060947 |
| 6 | 99,517,968 | rs42256750 | G | A | Gtg/Atg | p.Val632Met/c.1894G>A | THAP9 | ENSBTAT00000030398 |
| 6 | 100,005,141 | rs42562574 | G | A | Ctt/Ttt | p.Leu82Phe/c.244C>T | HELQ | ENSBTAT00000064268 |

| | | | | | | | | |
|---|-------------|-------------|---|-----|---------|-----------------------|--------------------|--------------------|
| 6 | 103,802,133 | . | A | G | Act/Gct | p.Thr766Ala/c.2296A>G | AFF1 | ENSBTAT00000024607 |
| 6 | 104,438,476 | rs43490484 | T | C | gTc/gCc | p.Val479Ala/c.1436T>C | ENSBTAG00000006508 | ENSBTAT00000008532 |
| 6 | 104,441,287 | rs108978254 | T | C | tTc/tCc | p.Phe586Ser/c.1757T>C | ENSBTAG00000006508 | ENSBTAT00000008532 |
| 6 | 109,184,852 | rs43494493 | G | A | aCt/aTt | p.Thr155Ile/c.464C>T | ENSBTAG00000002247 | ENSBTAT00000002902 |
| 6 | 117,856,742 | rs211666591 | A | G | Tgg/Cgg | p.Trp19Arg/c.55T>C | ENSBTAG00000019584 | ENSBTAT00000026090 |
| 6 | 117,856,783 | rs135418570 | C | G | aGc/aCc | p.Ser5Thr/c.14G>C | ENSBTAG00000019584 | ENSBTAT00000026090 |
| 6 | 119,331,677 | rs43766787 | A | G | Acc/Gcc | p.Thr121Ala/c.361A>G | SH3TC1 | ENSBTAT00000066026 |
| 7 | 3,966,217 | rs110038724 | T | C | Aag/Gag | p.Lys630Glu/c.1888A>G | NCAN | ENSBTAT00000002312 |
| 7 | 3,969,491 | rs29010184 | A | C | cTt/cGt | p.Leu186Arg/c.557T>G | NCAN | ENSBTAT00000002312 |
| 7 | 4,570,185 | rs208777049 | C | T | Cgg/Tgg | p.Arg224Trp/c.670C>T | FKBP8 | ENSBTAT00000021634 |
| 7 | 4,875,781 | rs43196997 | G | C | cGc/cCc | p.Arg35Pro/c.104G>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,876,976 | rs211339277 | T | C | gTt/gCt | p.Val412Ala/c.1235T>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,877,804 | rs41922298 | A | C | gAg/gCg | p.Glu565Ala/c.1694A>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,877,816 | rs41922297 | T | C | tTg/tCg | p.Leu569Ser/c.1706T>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,878,217 | rs109679504 | G | T | Gct/Tct | p.Ala663Ser/c.1987G>T | KIAA1683 | ENSBTAT00000000218 |
| 7 | 5,602,912 | rs43497544 | T | C | Tgc/Cgc | p.Cys197Arg/c.589T>C | ENSBTAG00000025767 | ENSBTAT00000047511 |
| 7 | 8,565,774 | rs133939350 | T | C | gTg/gCg | p.Val463Ala/c.1388T>C | ENSBTAG00000025748 | ENSBTAT00000036366 |
| 7 | 9,714,452 | rs42893540 | A | G | gAa/gGa | p.Glu17Gly/c.50A>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,714,453 | rs137131016 | A | T | gaA/gaT | p.Glu17Asp/c.51A>T | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,714,867 | rs42893535 | T | G | tgT/tgG | p.Cys155Trp/c.465T>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,022 | rs42900929 | G | T | tGt/tTt | p.Cys207Phe/c.620G>T | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,166 | rs42900925 | T | C | tTc/tCc | p.Phe255Ser/c.764T>C | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,223 | rs42900924 | C | T | cCa/cTa | p.Pro274Leu/c.821C>T | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,258 | rs42900923 | A | G | Atg/Gtg | p.Met286Val/c.856A>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 10,430,569 | rs109507551 | C | A | cCa/cAa | p.Pro186Gln/c.557C>A | ENSBTAG00000048066 | ENSBTAT00000053756 |
| 7 | 14,343,225 | rs134729326 | C | T | Ggc/Agc | p.Gly715Ser/c.2143G>A | MUC16 | ENSBTAT00000065546 |
| 7 | 15,224,311 | rs134197303 | A | G | Atc/Gtc | p.Ile9Val/c.25A>G | ENSBTAG00000046139 | ENSBTAT00000054272 |
| 7 | 15,343,575 | rs109787778 | A | G | aAt/aGt | p.Asn118Ser/c.353A>G | ENSBTAG00000039493 | ENSBTAT00000056477 |
| 7 | 15,344,698 | rs110682729 | A | G | cAt/cGt | p.His202Arg/c.605A>G | ENSBTAG00000039493 | ENSBTAT00000056477 |
| 7 | 15,691,661 | rs460298838 | T | G | Aac/Cac | p.Asn135His/c.403A>C | ENSBTAG00000046813 | ENSBTAT00000063019 |
| 7 | 20,835,781 | rs385776717 | A | G | Atc/Gtc | p.Ile346Val/c.1036A>G | PLIN4 | ENSBTAT00000020833 |
| 7 | 20,836,494 | rs383685203 | G | C | gaG/gaC | p.Glu583Asp/c.1749G>C | PLIN4 | ENSBTAT00000020833 |
| 7 | 23,111,193 | rs210626532 | G | A | aCt/aTt | p.Thr613Ile/c.1838C>T | RAD50 | ENSBTAT00000014945 |
| 7 | 29,648,522 | rs42649485 | A | G,T | Tgt/Cgt | p.Cys127Arg/c.379T>C | ENSBTAG00000046696 | ENSBTAT00000065293 |
| 7 | 41,444,799 | rs136551204 | G | C | ttC/ttG | p.Phe299Leu/c.897C>G | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 41,444,881 | rs209852104 | G | A | aCc/aTc | p.Thr272Ile/c.815C>T | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 41,445,422 | rs134159339 | G | A | Cgg/Tgg | p.Arg92Trp/c.274C>T | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 41,445,581 | rs134995545 | C | T | Ggc/Agc | p.Gly39Ser/c.115G>A | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 41,445,637 | rs209877054 | G | A | cCa/cTa | p.Pro20Leu/c.59C>T | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 43,739,690 | rs135198319 | T | C | aTg/aCg | p.Met59Thr/c.176T>C | ENSBTAG00000047519 | ENSBTAT00000064214 |
| 7 | 43,739,884 | rs133160398 | T | C | Tgc/Cgc | p.Cys124Arg/c.370T>C | ENSBTAG00000047519 | ENSBTAT00000064214 |
| 7 | 43,740,212 | rs136627077 | A | G | cAa/cGa | p.Gln233Arg/c.698A>G | ENSBTAG00000047519 | ENSBTAT00000064214 |
| 7 | 51,022,457 | rs210354016 | C | A | aGa/aTa | p.Arg449Ile/c.1346G>T | FAM13B | ENSBTAT00000063540 |
| 7 | 53,250,424 | rs211122811 | G | C | Gta/Cta | p.Val696Leu/c.2086G>C | SLC4A9 | ENSBTAT00000029024 |
| 7 | 53,417,346 | rs42309878 | T | C | cAg/cGg | p.Gln323Arg/c.968A>G | APBB3 | ENSBTAT00000043198 |
| 7 | 53,501,998 | rs109574176 | A | T | Att/Ttt | p.Ile42Phe/c.124A>T | HARS2 | ENSBTAT00000035338 |
| 7 | 53,585,497 | rs109589164 | C | G | gaC/gaG | p.Asp94Glu/c.282C>G | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,586,377 | rs109762971 | T | A | Tcc/Acc | p.Ser367Thr/c.1099T>A | PCDHA3 | ENSBTAT00000065348 |

| | | | | | | | | |
|---|------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 7 | 53,586,431 | rs132817765 | A | T | Aca/Tca | p.Thr385Ser/c.1153A>T | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,586,482 | rs134085302 | A | G | Ata/Gta | p.Ile402Val/c.1204A>G | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,586,530 | rs110117998 | G | A | Gcc/Acc | p.Ala418Thr/c.1252G>A | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,586,582 | rs133071773 | C | T | gCg/gTg | p.Ala435Val/c.1304C>T | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,586,587 | rs137120461 | C | G | Cca/Gca | p.Pro437Ala/c.1309C>G | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,587,574 | rs110052407 | G | A | Gag/Aag | p.Glu766Lys/c.2296G>A | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,587,733 | rs136302106 | A | G | Att/Gtt | p.Ile783Val/c.2347A>G | PCDHA3 | ENSBTAT00000065348 |
| 7 | 53,603,814 | rs136809873 | A | C | caA/caC | p.Gln32His/c.96A>C | PCDHA5 | ENSBTAT00000020506 |
| 7 | 53,604,314 | rs110819140 | T | C | cTa/cCa | p.Leu199Pro/c.596T>C | PCDHA5 | ENSBTAT00000020506 |
| 7 | 53,604,626 | rs110562984 | T | C | aTa/aCa | p.Ile303Thr/c.908T>C | PCDHA5 | ENSBTAT00000020506 |
| 7 | 53,604,871 | rs110973703 | A | G | Atc/Gtc | p.Ile385Val/c.1153A>G | PCDHA5 | ENSBTAT00000020506 |
| 7 | 53,606,000 | rs110664576 | G | A | gGg/gAg | p.Gly761Glu/c.2282G>A | PCDHA5 | ENSBTAT00000020506 |
| 7 | 53,614,122 | rs110151823 | C | A | tCc/tAc | p.Ser130Tyr/c.389C>A | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,559 | rs108986722 | G | A | Gtt/Att | p.Val276Ile/c.826G>A | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,608 | rs110469771 | A | G | cAa/cGa | p.Gln292Arg/c.875A>G | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,789 | rs110616496 | A | C | ttA/ttC | p.Leu352Phe/c.1056A>C | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,929 | rs109663998 | T | C | aTc/aCc | p.Ile399Thr/c.1196T>C | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,945 | rs136243347 | G | C | aaG/aaC | p.Lys404Asn/c.1212G>C | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,614,950 | rs111010989 | C | A | gCt/gAt | p.Ala406Asp/c.1217C>A | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,616,077 | rs109347244 | T | A | Tgt/Agt | p.Cys782Ser/c.2344T>A | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,616,084 | rs110265542 | T | C | tTc/tCc | p.Phe784Ser/c.2351T>C | ENSBTAG00000015439 | ENSBTAT00000063152 |
| 7 | 53,618,906 | rs110048773 | C | T | Ctc/Ttc | p.Leu20Phe/c.58C>T | ENSBTAG00000046717 | ENSBTAT00000020521 |
| 7 | 53,618,917 | rs134285229 | C | G | tgC/tgG | p.Cys23Trp/c.69C>G | ENSBTAG00000046717 | ENSBTAT00000020521 |
| 7 | 53,651,345 | rs135963121 | T | C | Tgc/Cgc | p.Cys231Arg/c.691T>C | PCDHA11 | ENSBTAT00000020511 |
| 7 | 53,664,924 | rs41606036 | C | T | aCa/aTa | p.Thr343Ile/c.1028C>T | PCDHA13 | ENSBTAT00000020497 |
| 7 | 59,689,681 | rs43517712 | T | G | Atg/Ctg | p.Met85Leu/c.253A>C | GPR151 | ENSBTAT00000004224 |
| 7 | 63,161,107 | rs110999848 | T | G | ttT/ttG | p.Phe111Leu/c.333T>G | PPARGC1B | ENSBTAT00000017197 |
| 7 | 63,168,286 | rs42862780 | T | C | cTg/cCg | p.Leu563Pro/c.1688T>C | PPARGC1B | ENSBTAT00000017197 |
| 7 | 64,042,930 | rs43522646 | T | C | gTg/gCg | p.Val183Ala/c.548T>C | MYOZ3 | ENSBTAT00000035177 |
| 7 | 70,708,956 | rs211450429 | G | A | Cca/Tca | p.Pro212Ser/c.634C>T | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,708,997 | rs211168618 | C | T | aGg/aAg | p.Arg198Lys/c.593G>A | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,012 | rs384167318 | A | G | aTc/aCc | p.Ile193Thr/c.578T>C | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,033 | rs467990423 | G | A | aCt/aTt | p.Thr186Ile/c.557C>T | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,124 | rs473671451 | C | T | Gct/Act | p.Ala156Thr/c.466G>A | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 92,693,288 | rs133575952 | T | C | aTt/aCt | p.Ile5002Thr/c.15005T>C | GPR98 | ENSBTAT00000007926 |
| 8 | 1,558,331 | rs109923857 | C | T | gCg/gTg | p.Ala2Val/c.5C>T | ENSBTAG00000035293 | ENSBTAT00000049801 |
| 8 | 1,558,942 | rs110884199 | G | C | gGt/gCt | p.Gly54Ala/c.161G>C | ENSBTAG00000035293 | ENSBTAT00000049801 |
| 8 | 7,101,793 | rs208160070 | A | G | aAt/aGt | p.Asn486Ser/c.1457A>G | ENSBTAG00000035768 | ENSBTAT00000050255 |
| 8 | 7,161,026 | rs136752022 | A | C | Aaa/Caa | p.Lys216Gln/c.646A>C | ENSBTAG00000039873 | ENSBTAT00000053102 |
| 8 | 11,501,647 | rs137538166 | A | G | gTt/gCt | p.Val339Ala/c.1016T>C | ACO1 | ENSBTAT00000000731 |
| 8 | 22,608,277 | rs134550089 | C | T | Gtg/Atg | p.Val169Met/c.505G>A | IFNT | ENSBTAT00000054734 |
| 8 | 22,608,336 | rs447721347 | C | T | gGc/gAc | p.Gly149Asp/c.446G>A | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,690 | rs209324924 | G | A | Cac/Tac | p.His92Tyr/c.274C>T | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,702 | rs133621844 | A | G | Ttc/Ctc | p.Phe88Leu/c.262T>C | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,879 | rs208435116 | T | C | Aac/Gac | p.Asn29Asp/c.85A>G | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,915 | rs209484018 | T | C | Agc/Ggc | p.Ser17Gly/c.49A>G | IFNT | ENSBTAT00000054734 |
| 8 | 23,500,361 | rs110722896 | A | G | cTt/cCt | p.Leu772Pro/c.2315T>C | KIAA1797 | ENSBTAT00000061612 |
| 8 | 46,638,029 | rs110623488 | A | G | Att/Gtt | p.Ile413Val/c.1237A>G | MAMDC2 | ENSBTAT00000023092 |

| | | | | | | | | |
|----|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 8 | 49,301,911 | rs43597403 | A | T | caA/caT | p.Gln683His/c.2049A>T | TMC1 | ENSBTAT00000025003 |
| 8 | 60,562,323 | rs208906786 | C | T | cGc/cAc | p.Arg238His/c.713G>A | ENSBTAG00000032668 | ENSBTAT00000052230 |
| 8 | 62,995,760 | rs109961766 | T | G | Tgg/Ggg | p.Trp18Gly/c.52T>G | CCDC180 | ENSBTAT00000030764 |
| 8 | 63,801,805 | rs43557893 | A | C | aTc/aGc | p.Ile249Ser/c.746T>G | TBC1D2 | ENSBTAT00000026052 |
| 8 | 64,322,470 | rs209452896 | C | A | Cgt/Agt | p.Arg63Ser/c.187C>A | GALNT12 | ENSBTAT00000011895 |
| 8 | 65,840,281 | rs133967125 | C | A | Gtc/Ttc | p.Val262Phe/c.784G>T | ENSBTAG00000035708 | ENSBTAT00000050195 |
| 8 | 76,026,062 | rs43432629 | G | A | gCg/gTg | p.Ala274Val/c.821C>T | ENSBTAG00000015027 | ENSBTAT00000020003 |
| 8 | 82,308,696 | rs42248404 | A | C | aAc/aCc | p.Asn1159Thr/c.3476A>C | DAPK1 | ENSBTAT00000000982 |
| 8 | 82,366,548 | rs42247943 | C | G | gCc/gGc | p.Ala79Gly/c.236C>G | CTSL1 | ENSBTAT00000000962 |
| 8 | 82,369,137 | rs133002554 | A | C | aAt/aCt | p.Asn241Thr/c.722A>C | CTSL1 | ENSBTAT00000000962 |
| 8 | 84,591,924 | rs43565425 | A | G | cAc/cGc | p.His243Arg/c.728A>G | HABP4 | ENSBTAT00000015392 |
| 8 | 84,612,244 | rs43566442 | G | T | Gcc/Tcc | p.Ala394Ser/c.1180G>T | HABP4 | ENSBTAT00000015392 |
| 8 | 86,801,922 | rs41807235 | A | G | cAg/cGg | p.Gln36Arg/c.107A>G | PTPDC1 | ENSBTAT00000007630 |
| 8 | 87,577,501 | rs43572154 | A | G | Atg/Gtg | p.Met901Val/c.2701A>G | ROR2 | ENSBTAT00000061589 |
| 8 | 111,811,142 | rs109773828 | A | G | cTg/cCg | p.Leu511Pro/c.1532T>C | CDK5RAP2 | ENSBTAT00000008586 |
| 9 | 22,317,715 | rs43588330 | T | C | Att/Gtt | p.Ile571Val/c.1711A>G | IBTK | ENSBTAT00000038116 |
| 9 | 28,812,227 | rs43589466 | C | T | gGc/gAc | p.Gly412Asp/c.1235G>A | SMPDL3A | ENSBTAT00000028765 |
| 9 | 34,167,150 | rs43591368 | A | G | cTg/cCg | p.Leu615Pro/c.1844T>C | RFX6 | ENSBTAT00000000329 |
| 9 | 39,310,482 | rs110375472 | A | G | Atg/Gtg | p.Met255Val/c.763A>G | TRAF3IP2 | ENSBTAT00000011347 |
| 9 | 40,292,376 | rs110457212 | A | G | Ata/Gta | p.Ile228Val/c.682A>G | DDO | ENSBTAT00000013892 |
| 9 | 41,378,011 | rs454180059 | C | G | Ggt/Cgt | p.Gly179Arg/c.535G>C | ENSBTAG00000047024 | ENSBTAT00000064270 |
| 9 | 49,838,232 | rs211587812 | T | G | atT/atG | p.Ile80Met/c.240T>G | ENSBTAG00000045624 | ENSBTAT00000064018 |
| 9 | 57,516,987 | rs444956031 | T | A | aaT/aaA | p.Asn278Lys/c.834T>A | ENSBTAG00000003743 | ENSBTAT00000004870 |
| 9 | 57,517,130 | rs209817791 | C | A | aCa/aAa | p.Thr326Lys/c.977C>A | ENSBTAG00000003743 | ENSBTAT00000004870 |
| 9 | 61,240,110 | rs43601234 | C | A | aGt/aTt | p.Ser251Ile/c.752G>T | GJA10 | ENSBTAT00000015039 |
| 9 | 70,797,078 | rs109606977 | G | C | ttG/ttC | p.Leu738Phe/c.2214G>C | ENPP1 | ENSBTAT00000061365 |
| 9 | 88,573,857 | rs133615483 | C | T | gCc/gTc | p.Ala11Val/c.32C>T | IYD | ENSBTAT00000021191 |
| 9 | 98,064,110 | rs133586190 | T | G | Att/Ctt | p.Ile17Leu/c.49A>C | PLG | ENSBTAT00000001674 |
| 9 | 103,285,490 | rs137672594 | T | A | Agc/Tgc | p.Ser147Cys/c.439A>T | RNASSET2 | ENSBTAT00000019270 |
| 9 | 103,504,778 | rs134959976 | G | A | Gct/Act | p.Ala240Thr/c.718G>A | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 9 | 103,504,835 | rs135795511 | C | A | Cgt/Agt | p.Arg259Ser/c.775C>A | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 9 | 103,507,929 | rs135645533 | G | A | aGc/aAc | p.Ser300Asn/c.899G>A | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 9 | 103,513,968 | rs136460358 | A | G | Atc/Gtc | p.Ile358Val/c.1072A>G | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 9 | 103,514,010 | rs134218065 | A | G | Acc/Gcc | p.Thr372Ala/c.1114A>G | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 9 | 103,514,097 | rs135813560 | A | G | Atc/Gtc | p.Ile401Val/c.1201A>G | ENSBTAG00000026133 | ENSBTAT00000037035 |
| 10 | 5,010,553 | rs110586805 | C | G | Gcc/Ccc | p.Ala230Pro/c.688G>C | SIMC1 | ENSBTAT00000020753 |
| 10 | 10,667,813 | rs137473755 | T | C | aTa/aCa | p.Ile3262Thr/c.9785T>C | CMYA5 | ENSBTAT00000008967 |
| 10 | 12,106,270 | rs110142646 | A | G | aTg/aCg | p.Met265Thr/c.794T>C | CILP | ENSBTAT00000003651 |
| 10 | 15,028,689 | rs137322585 | T | C | Agc/Ggc | p.Ser195Gly/c.583A>G | CLN6 | ENSBTAT00000007315 |
| 10 | 15,843,080 | rs110646944 | T | G | Tcc/Gcc | p.Ser254Ala/c.760T>G | NOX5 | ENSBTAT00000011888 |
| 10 | 22,007,832 | rs132853558 | T | C | Tct/Cct | p.Ser6Pro/c.16T>C | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,007,890 | rs137158654 | C | T | cCg/cTg | p.Pro25Leu/c.74C>T | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,007,941 | rs109022481 | G | A | cGc/cAc | p.Arg38His/c.113G>A | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,180 | rs109200916 | G | C | aGc/aCc | p.Ser117Thr/c.350G>C | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,389 | rs111031120 | C | T | aCg/aTg | p.Thr186Met/c.557C>T | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,462 | rs136988790 | C | A | ttC/ttA | p.Phe210Leu/c.630C>A | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,536 | rs135446869 | T | C | aTg/aCg | p.Met235Thr/c.704T>C | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,567 | rs110909431 | C | A | aaC/aaA | p.Asn245Lys/c.735C>A | OR6J1 | ENSBTAT00000066332 |

| | | | | | | | | |
|----|-------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 10 | 22,008,641 | rs109817990 | G | A | tGt/tAt | p.Cys270Tyr/c.809G>A | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,008,668 | rs132979062 | A | G | aAg/aGg | p.Lys279Arg/c.836A>G | OR6J1 | ENSBTAT00000066332 |
| 10 | 22,009,392 | rs135592950 | C | G | tCt/tGt | p.Ser292Cys/c.875C>G | OR6J1 | ENSBTAT00000066332 |
| 10 | 24,759,625 | rs208414253 | A | G | tTg/tCg | p.Leu22Ser/c.65T>C | ENSBTAG00000035785 | ENSBTAT00000052701 |
| 10 | 25,637,230 | rs377792870 | C | T | aCg/aTg | p.Thr139Met/c.416C>T | ENSBTAG00000047746 | ENSBTAT00000065405 |
| 10 | 26,226,949 | rs43623326 | C | G | gaG/gaC | p.Glu137Asp/c.411G>C | ENSBTAG00000025664 | ENSBTAT00000036230 |
| 10 | 26,812,016 | rs43619690 | A | C | tTt/tGt | p.Phe106Cys/c.317T>G | PARP2 | ENSBTAT00000063765 |
| 10 | 27,153,962 | rs109278011 | G | C | Gtg/Ctg | p.Val149Leu/c.445G>C | ENSBTAG00000039416 | ENSBTAT00000052198 |
| 10 | 27,153,978 | rs137600340 | T | C | aTt/aCt | p.Ile154Thr/c.461T>C | ENSBTAG00000039416 | ENSBTAT00000052198 |
| 10 | 37,360,719 | rs109335892 | T | C | Aag/Gag | p.Lys3360Glu/c.10078A>G | SPTBN5 | ENSBTAT00000008931 |
| 10 | 43,092,094 | rs110708865 | G | T | aaC/aaA | p.Asn224Lys/c.672C>A | VCPKMT | ENSBTAT00000007295 |
| 10 | 54,834,912 | rs43631943 | A | G | Act/Gct | p.Thr875Ala/c.2623A>G | PRTG | ENSBTAT00000061599 |
| 10 | 62,345,549 | rs43642614 | C | T | cGa/cAa | p.Arg842Gln/c.2525G>A | SLC12A1 | ENSBTAT00000046583 |
| 10 | 66,693,033 | rs110019329 | G | A | aGc/aAc | p.Ser67Asn/c.200G>A | ENSBTAG00000047239 | ENSBTAT00000064748 |
| 10 | 66,693,034 | rs110669306 | C | G | agC/agG | p.Ser67Arg/c.201C>G | ENSBTAG00000047239 | ENSBTAT00000064748 |
| 10 | 66,693,359 | rs137755940 | A | G | Aaa/Gaa | p.Lys169Glu/c.505A>G | ENSBTAG00000047239 | ENSBTAT00000064748 |
| 10 | 70,069,617 | rs43638586 | C | T | Gaa/Aaa | p.Glu313Lys/c.937G>A | C14orf105 | ENSBTAT00000043680 |
| 10 | 70,153,376 | rs43637109 | T | C | Atc/Gtc | p.Ile378Val/c.1132A>G | SLC35F4 | ENSBTAT00000008321 |
| 10 | 71,040,292 | rs110740827 | A | T | agA/agT | p.Arg1425Ser/c.4275A>T | KIAA0586 | ENSBTAT00000008528 |
| 10 | 76,470,872 | rs109875322 | T | G | caT/caG | p.His288Gln/c.864T>G | SYNE2 | ENSBTAT00000029285 |
| 10 | 76,521,012 | rs110266857 | T | C | aTg/aCg | p.Met1705Thr/c.5114T>C | SYNE2 | ENSBTAT00000029285 |
| 10 | 76,528,815 | rs136898885 | T | C | gTa/gCa | p.Val2254Ala/c.6761T>C | SYNE2 | ENSBTAT00000029285 |
| 10 | 76,544,237 | rs133260103 | T | A | gTt/gAt | p.Val3178Asp/c.9533T>A | SYNE2 | ENSBTAT00000029285 |
| 10 | 76,927,533 | rs109233154 | A | G | Att/Gtt | p.Ile21Val/c.61A>G | AKAP5 | ENSBTAT00000012705 |
| 10 | 77,225,774 | rs110180274 | T | C | cAg/cGg | p.Gln1574Arg/c.4721A>G | SPTB | ENSBTAT00000006213 |
| 10 | 79,786,335 | rs210375252 | G | A | Gcc/Acc | p.Ala165Thr/c.493G>A | PLEKHH1 | ENSBTAT00000024351 |
| 10 | 79,786,545 | rs209245402 | A | G | cAg/cGg | p.Gln191Arg/c.572A>G | PLEKHH1 | ENSBTAT00000024351 |
| 10 | 86,512,118 | rs43642912 | A | G | gTc/gCc | p.Val117Ala/c.350T>C | PROX2 | ENSBTAT00000020033 |
| 10 | 86,512,193 | rs43642913 | C | T | cGc/cAc | p.Arg92His/c.275G>A | PROX2 | ENSBTAT00000020033 |
| 10 | 86,722,036 | rs43640519 | G | A | cGt/cAt | p.Arg461His/c.1382G>A | ZC2HC1C | ENSBTAT00000018587 |
| 10 | 102,147,332 | rs210322401 | C | G | Gaa/Caa | p.Glu146Gln/c.436G>C | FOXN3 | ENSBTAT00000065076 |
| 10 | 102,953,391 | rs110515225 | T | G | aAt/aCt | p.Asn189Thr/c.566A>C | NRDE2 | ENSBTAT00000007147 |
| 11 | 333,399 | rs210629525 | C | T | Gcc/Acc | p.Ala844Thr/c.2530G>A | MERTK | ENSBTAT00000007664 |
| 11 | 4,668,472 | rs42275290 | A | G | gTg/gCg | p.Val482Ala/c.1445T>C | AFF3 | ENSBTAT00000061254 |
| 11 | 6,641,961 | rs110956359 | T | C | gTg/gCg | p.Val728Ala/c.2183T>C | MAP4K4 | ENSBTAT00000006458 |
| 11 | 11,383,367 | rs43658801 | A | G | cAc/cGc | p.His76Arg/c.227A>G | SFXN5 | ENSBTAT00000047335 |
| 11 | 13,018,347 | rs209802563 | G | A | gCg/gTg | p.Ala707Val/c.2120C>T | DYSF | ENSBTAT00000033154 |
| 11 | 30,962,509 | rs207548983 | G | T | aaC/aaA | p.Asn140Lys/c.420C>A | ENSBTAG00000027015 | ENSBTAT00000038679 |
| 11 | 44,525,375 | rs134352471 | T | C | Act/Gct | p.Thr2356Ala/c.7066A>G | RANBP2 | ENSBTAT00000045527 |
| 11 | 44,525,662 | rs109065782 | G | T | aCa/aAa | p.Thr2260Lys/c.6779C>A | RANBP2 | ENSBTAT00000045527 |
| 11 | 47,829,531 | rs109919675 | A | G | aTg/aCg | p.Met153Thr/c.458T>C | SMYD1 | ENSBTAT00000028141 |
| 11 | 49,479,117 | rs110836222 | A | G | cAg/cGg | p.Gln246Arg/c.737A>G | RETSAT | ENSBTAT00000029241 |
| 11 | 72,100,159 | rs210343062 | C | A | aGg/aTg | p.Arg925Met/c.2774G>T | C2orf16 | ENSBTAT00000065671 |
| 11 | 74,567,885 | rs134150948 | T | C | cAa/cGa | p.Gln199Arg/c.596A>G | NCOA1 | ENSBTAT00000064008 |
| 11 | 87,532,476 | rs109905001 | T | C | Atg/Gtg | p.Met330Val/c.988A>G | TIEG2 | ENSBTAT00000066246 |
| 11 | 87,532,659 | rs110702390 | T | C | Atc/Gtc | p.Ile269Val/c.805A>G | TIEG2 | ENSBTAT00000066246 |
| 11 | 87,532,731 | rs135871423 | T | C | Att/Gtt | p.Ile245Val/c.733A>G | TIEG2 | ENSBTAT00000066246 |
| 11 | 88,009,463 | rs136098975 | T | G | Tca/Gca | p.Ser150Ala/c.448T>G | ITGB1BP1 | ENSBTAT00000017362 |

| | | | | | | | | |
|----|-------------|-------------|---|---|---------|------------------------|--------------------|---------------------|
| 11 | 93,078,032 | rs110295726 | T | G | cAg/cCg | p.Gln318Pro/c.953A>C | LHX6 | ENSBTAT00000007266 |
| 11 | 93,305,805 | rs384022426 | A | G | aTc/aCc | p.Ile48Thr/c.143T>C | ENSBTAG00000046018 | ENSBTAT00000056578 |
| 11 | 93,305,812 | rs378316035 | G | C | Ctg/Gtg | p.Leu46Val/c.136C>G | ENSBTAG00000046018 | ENSBTAT00000056578 |
| 11 | 93,459,981 | rs43163263 | T | C | gTt/gCt | p.Val29Ala/c.86T>C | ENSBTAG00000039225 | ENSBTAT00000055838 |
| 11 | 93,585,259 | rs209013867 | C | G | aCa/aGa | p.Thr309Arg/c.926C>G | ENSBTAG00000037542 | ENSBTAT00000052043 |
| 11 | 94,016,207 | rs134231856 | C | T | Gtg/Atg | p.Val705Met/c.2113G>A | RC3H2 | ENSBTAT00000032789 |
| 11 | 95,882,031 | rs110131751 | T | C | Aca/Gca | p.Thr433Ala/c.1297A>G | GOLGA1 | ENSBTAT00000020327 |
| 11 | 97,606,815 | rs135084286 | A | G | Act/Gct | p.Thr483Ala/c.1447A>G | ZNF297B | ENSBTAT00000004465 |
| 11 | 98,967,563 | rs135578862 | G | A | Ggg/Agg | p.Gly475Arg/c.1423G>A | SLC27A4 | ENSBTAT00000020526 |
| 11 | 101,149,460 | rs110919562 | C | T | cCa/cTa | p.Pro664Leu/c.1991C>T | ABL1 | ENSBTAT00000023920 |
| 11 | 101,297,747 | rs109210288 | A | G | Atg/Gtg | p.Met978Val/c.2932A>G | LAMC3 | ENSBTAT00000023245 |
| 11 | 101,311,343 | rs450917726 | A | G | aAa/aGa | p.Lys1495Arg/c.4484A>G | LAMC3 | ENSBTAT00000023245 |
| 11 | 102,780,564 | rs110569271 | T | C | tTa/tCa | p.Leu643Ser/c.1928T>C | GTF3C4 | ENSBTAT00000005344 |
| 11 | 103,917,923 | rs110908056 | G | C | gGg/gCg | p.Gly37Ala/c.110G>C | PMPCA | ENSBTAT00000001782 |
| 11 | 103,961,639 | rs110779122 | A | G | gTt/gCt | p.Val798Ala/c.2393T>C | SEC16A | ENSBTAT000000042743 |
| 11 | 105,769,924 | rs109707011 | T | G | caT/caG | p.His657Gln/c.1971T>G | EXD3 | ENSBTAT00000032625 |
| 12 | 23,469,255 | rs110205273 | T | C | Act/Gct | p.Thr1017Ala/c.3049A>G | FREM2 | ENSBTAT00000022647 |
| 12 | 23,470,544 | rs110918614 | A | G | aTt/aCt | p.Ile587Thr/c.1760T>C | FREM2 | ENSBTAT00000022647 |
| 12 | 23,470,700 | rs109916591 | A | C | cTa/cGa | p.Leu535Arg/c.1604T>G | FREM2 | ENSBTAT00000022647 |
| 12 | 26,115,191 | rs110605210 | T | C | atA/atG | p.Ile1Met/c.3A>G | ENSBTAG00000019268 | ENSBTAT00000025656 |
| 12 | 34,527,118 | rs110532467 | T | C | gTg/gCg | p.Val1003Ala/c.3008T>C | ENSBTAG00000019545 | ENSBTAT00000026040 |
| 12 | 34,545,458 | rs109611818 | T | C | aTg/aCg | p.Met16Thr/c.47T>C | C1QTNF9 | ENSBTAT00000001799 |
| 12 | 36,671,546 | rs441688469 | A | G | cTt/cCt | p.Leu1465Pro/c.4394T>C | PARP4 | ENSBTAT00000035651 |
| 12 | 36,671,549 | rs456940499 | T | G | cAt/cCt | p.His1464Pro/c.4391A>C | PARP4 | ENSBTAT00000035651 |
| 12 | 36,672,231 | rs109816907 | A | C | Ttt/Gtt | p.Phe1311Val/c.3931T>G | PARP4 | ENSBTAT00000035651 |
| 12 | 91,086,329 | rs41682216 | T | C | cTg/cCg | p.Leu421Pro/c.1262T>C | UPF3A | ENSBTAT00000027791 |
| 12 | 91,150,046 | rs207533122 | T | A | Tgg/Agg | p.Trp263Arg/c.787T>A | ENSBTAG00000038732 | ENSBTAT00000054687 |
| 13 | 10,971,916 | rs210275069 | A | G | cAg/cGg | p.Gln686Arg/c.2057A>G | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,971,920 | rs383169954 | C | G | gaC/gaG | p.Asp687Glu/c.2061C>G | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,979,892 | rs211132945 | G | A | cGc/cAc | p.Arg1147His/c.3440G>A | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,989,141 | rs208113184 | T | G | tTg/tGg | p.Leu1287Trp/c.3860T>G | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,990,667 | rs208707189 | G | A | aGg/aAg | p.Arg1302Lys/c.3905G>A | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,992,654 | rs207490831 | T | G | Tcc/Gcc | p.Ser1374Ala/c.4120T>G | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 11,161,846 | rs207635103 | T | C | Tgt/Cgt | p.Cys37Arg/c.109T>C | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,163,571 | rs137164781 | T | C | aTt/aCt | p.Ile46Thr/c.137T>C | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,176,608 | rs42886290 | A | C | Aaa/Caa | p.Lys302Gln/c.904A>C | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,176,635 | rs42886289 | C | G | Cag/Gag | p.Gln311Glu/c.931C>G | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,178,926 | rs109412166 | C | T | aCg/aTg | p.Thr458Met/c.1373C>T | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 17,800,427 | rs132870911 | A | C | gAa/gCa | p.Glu247Ala/c.740A>C | ENSBTAG00000017012 | ENSBTAT00000053112 |
| 13 | 22,967,429 | rs209281070 | A | G | gTt/gCt | p.Val616Ala/c.1847T>C | SKIDA1 | ENSBTAT00000061347 |
| 13 | 24,528,282 | rs207986328 | G | C | Ctc/Gtc | p.Leu315Val/c.943C>G | C10orf67 | ENSBTAT00000061590 |
| 13 | 30,070,321 | rs134755178 | A | G | Tct/Cct | p.Ser390Pro/c.1168T>C | C13H10ORF38 | ENSBTAT00000032523 |
| 13 | 31,628,471 | rs109728359 | C | G | Gtc/Ctc | p.Val2956Leu/c.8866G>C | CUBN | ENSBTAT00000039417 |
| 13 | 31,647,466 | rs110934769 | C | T | atG/atA | p.Met2416Ile/c.7248G>A | CUBN | ENSBTAT00000039417 |
| 13 | 37,841,586 | rs41685757 | G | T | caG/caT | p.Gln68His/c.204G>T | PCSK2 | ENSBTAT00000052049 |
| 13 | 39,631,200 | rs41686567 | A | G | aAg/aGg | p.Lys513Arg/c.1538A>G | SLC24A3 | ENSBTAT00000015768 |
| 13 | 46,492,284 | rs41695089 | C | G | aCa/aGa | p.Thr46Arg/c.137C>G | ENSBTAG00000039356 | ENSBTAT00000014388 |
| 13 | 46,494,066 | rs41695097 | G | A | cGc/cAc | p.Arg116His/c.347G>A | ENSBTAG00000039356 | ENSBTAT00000014388 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|-----------------------|--------------------|--------------------|
| 13 | 54,541,735 | rs109165789 | A | G | Atg/Gtg | p.Met281Val/c.841A>G | RTEL1 | ENSBTAT00000052120 |
| 13 | 54,755,327 | rs110257612 | G | A | Cac/Tac | p.His8Tyr/c.22C>T | COL20A1 | ENSBTAT00000063888 |
| 13 | 57,862,027 | rs379767794 | T | A | aaT/aaA | p.Asn113Lys/c.339T>A | SLMO2 | ENSBTAT00000005773 |
| 13 | 62,927,733 | rs111018100 | C | G | Cac/Gac | p.His31Asp/c.91C>G | BPIFB4 | ENSBTAT00000053654 |
| 13 | 62,928,756 | rs110489811 | T | C | Ttt/Ctt | p.Phe47Leu/c.139T>C | BPIFB4 | ENSBTAT00000053654 |
| 13 | 74,237,965 | rs133413824 | A | G | Aga/Gga | p.Arg75Gly/c.223A>G | ENSBTAG00000046375 | ENSBTAT00000064589 |
| 13 | 74,274,209 | rs135529383 | G | A | gGt/gAt | p.Gly64Asp/c.191G>A | PI3 | ENSBTAT00000056512 |
| 13 | 74,274,371 | rs133273328 | A | G | gAc/gGc | p.Asp118Gly/c.353A>G | PI3 | ENSBTAT00000056512 |
| 13 | 74,274,394 | rs134475545 | C | A | Cct/Act | p.Pro126Thr/c.376C>A | PI3 | ENSBTAT00000056512 |
| 13 | 74,274,401 | rs137817490 | G | C | cGt/cCt | p.Arg128Pro/c.383G>C | PI3 | ENSBTAT00000056512 |
| 13 | 74,274,502 | rs133824770 | A | G | Agc/Ggc | p.Ser162Gly/c.484A>G | PI3 | ENSBTAT00000056512 |
| 13 | 74,274,533 | rs137420399 | G | A | cGg/cAg | p.Arg172Gln/c.515G>A | PI3 | ENSBTAT00000056512 |
| 13 | 74,944,637 | rs43024358 | G | A | Cgg/Tgg | p.Arg97Trp/c.289C>T | PTI | ENSBTAT00000023042 |
| 13 | 78,885,247 | rs43710321 | A | G | Tgc/Cgc | p.Cys173Arg/c.517T>C | TMEM189 | ENSBTAT00000013376 |
| 14 | 2,330,528 | rs109569063 | A | G | gAc/gGc | p.Asp449Gly/c.1346A>G | NAPRT1 | ENSBTAT00000019496 |
| 14 | 5,603,441 | rs109575847 | G | A | Gtg/Atg | p.Val137Met/c.409G>A | ENSBTAG00000018218 | ENSBTAT00000037370 |
| 14 | 9,187,841 | rs41632201 | G | A | Ccg/Tcg | p.Pro4Ser/c.10C>T | WISP1 | ENSBTAT00000000946 |
| 14 | 11,894,621 | rs109131803 | T | C | atA/atG | p.Ile310Met/c.930A>G | GSDMC | ENSBTAT00000023238 |
| 14 | 11,898,321 | rs110883072 | T | A | gAa/gTa | p.Glu200Val/c.599A>T | GSDMC | ENSBTAT00000023238 |
| 14 | 11,905,327 | rs109846883 | A | G | cTg/cCg | p.Leu27Pro/c.80T>C | GSDMC | ENSBTAT00000023238 |
| 14 | 24,070,385 | rs42545185 | A | G | Aca/Gca | p.Thr349Ala/c.1045A>G | ENSBTAG00000047303 | ENSBTAT00000064580 |
| 14 | 33,607,557 | rs42842018 | C | T | cGc/cAc | p.Arg186His/c.557G>A | CPA6 | ENSBTAT00000061366 |
| 14 | 62,859,104 | rs110636475 | T | C | Aag/Gag | p.Lys80Glu/c.238A>G | RIMS2 | ENSBTAT00000060962 |
| 14 | 75,454,033 | rs110513113 | A | C | ttT/ttG | p.Phe389Leu/c.1167T>G | SLC26A7 | ENSBTAT00000045797 |
| 14 | 75,482,083 | rs135261459 | C | T | Gat/Aat | p.Asp277Asn/c.829G>A | SLC26A7 | ENSBTAT00000045797 |
| 14 | 77,386,748 | rs109173725 | T | G | Ttt/Gtt | p.Phe347Val/c.1039T>G | ENSBTAG00000048317 | ENSBTAT00000065964 |
| 14 | 79,388,456 | rs108982026 | T | C | cAg/cGg | p.Gln46Arg/c.137A>G | CA2 | ENSBTAT00000023581 |
| 14 | 79,525,629 | rs444520816 | C | A | Ccc/Acc | p.Pro130Thr/c.388C>A | CA1 | ENSBTAT00000045723 |
| 15 | 183,078 | rs210570798 | A | G | Aca/Gca | p.Thr145Ala/c.433A>G | ENSBTAG00000046228 | ENSBTAT00000064530 |
| 15 | 968,551 | rs383850517 | G | A | aGg/aAg | p.Arg51Lys/c.152G>A | ENSBTAG00000016807 | ENSBTAT00000022357 |
| 15 | 968,809 | rs211439766 | G | A | cGa/cAa | p.Arg137Gln/c.410G>A | ENSBTAG00000016807 | ENSBTAT00000022357 |
| 15 | 17,647,017 | rs42929124 | G | T | Ctg/Atg | p.Leu198Met/c.592C>A | ENSBTAG00000003661 | ENSBTAT00000004769 |
| 15 | 29,356,000 | rs43573272 | T | C | aAc/aGc | p.Asn116Ser/c.347A>G | MPZL3 | ENSBTAT00000001630 |
| 15 | 35,819,911 | rs41757727 | A | G | Agc/Ggc | p.Ser299Gly/c.895A>G | ENSBTAG00000015244 | ENSBTAT00000036864 |
| 15 | 35,836,937 | rs41758331 | G | T | ttG/ttT | p.Leu104Phe/c.312G>T | ENSBTAG00000032859 | ENSBTAT00000055476 |
| 15 | 41,980,431 | rs109161209 | A | G | Acg/Gcg | p.Thr606Ala/c.1816A>G | GALNTL4 | ENSBTAT00000003784 |
| 15 | 46,603,256 | rs110381723 | C | T | Cct/Tct | p.Pro19Ser/c.55C>T | ENSBTAG00000037603 | ENSBTAT00000052569 |
| 15 | 46,603,745 | rs42997066 | C | A | Ctc/Atc | p.Leu182Ile/c.544C>A | ENSBTAG00000037603 | ENSBTAT00000052569 |
| 15 | 46,604,031 | rs208510550 | C | T | gCa/gTa | p.Ala277Val/c.830C>T | ENSBTAG00000037603 | ENSBTAT00000052569 |
| 15 | 46,604,091 | rs208521431 | A | T | aAt/aTt | p.Asn297Ile/c.890A>T | ENSBTAG00000037603 | ENSBTAT00000052569 |
| 15 | 46,624,389 | rs110987354 | G | A | Gtc/Atc | p.Val13Ile/c.37G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,438 | rs475452092 | C | T | aCt/aTt | p.Thr29Ile/c.86C>T | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,488 | rs109121972 | C | T | Ctc/Ttc | p.Leu46Phe/c.136C>T | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,536 | rs478456790 | C | A | Ctg/Atg | p.Leu62Met/c.184C>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,617 | rs447041657 | G | A | Gag/Aag | p.Glu89Lys/c.265G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,687 | rs208532383 | G | A | gGc/gAc | p.Gly112Asp/c.335G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,734 | rs108955631 | C | A | Cat/Aat | p.His128Asn/c.382C>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,826 | rs109130187 | A | G | atA/atG | p.Ile158Met/c.474A>G | ENSBTAG00000038031 | ENSBTAT00000053108 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 15 | 46,624,852 | rs445329575 | C | T | cCt/cTt | p.Pro167Leu/c.500C>T | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,905 | rs109074408 | C | A | Ctg/Atg | p.Leu185Met/c.553C>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,992 | rs109895924 | G | A | Gtc/Atc | p.Val214Ile/c.640G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,625,221 | rs443900297 | A | G | tAt/tGt | p.Tyr290Cys/c.869A>G | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,682,382 | rs444871101 | G | A | atG/atA | p.Met13Ile/c.39G>A | ENSBTAG00000035675 | ENSBTAT00000050165 |
| 15 | 46,682,858 | rs472804343 | G | A | cGg/cAg | p.Arg172Gln/c.515G>A | ENSBTAG00000035675 | ENSBTAT00000050165 |
| 15 | 46,693,089 | rs472874069 | T | C | Aac/Gac | p.Asn265Asp/c.793A>G | ENSBTAG00000015791 | ENSBTAT00000020969 |
| 15 | 46,693,706 | rs463943180 | G | A | aCa/aTa | p.Thr59Ile/c.176C>T | ENSBTAG00000015791 | ENSBTAT00000020969 |
| 15 | 46,712,519 | rs209553310 | A | G | gTc/gCc | p.Val188Ala/c.563T>C | ENSBTAG00000047025 | ENSBTAT00000028184 |
| 15 | 46,712,960 | rs385885871 | G | C | aCc/aGc | p.Thr41Ser/c.122C>G | ENSBTAG00000047025 | ENSBTAT00000028184 |
| 15 | 46,712,994 | rs211062875 | C | T | Gca/Aca | p.Ala30Thr/c.88G>A | ENSBTAG00000047025 | ENSBTAT00000028184 |
| 15 | 46,719,926 | rs445121109 | C | T | aGa/aAa | p.Arg303Lys/c.908G>A | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,719,989 | rs465456486 | G | A | aCt/aTt | p.Thr282Ile/c.845C>T | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,720,175 | rs445139573 | C | T | cGt/cAt | p.Arg220His/c.659G>A | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,720,178 | rs476744657 | C | T | tGg/tAg | p.Trp219*/c.656G>A | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,720,320 | rs208523743 | T | C | Aac/Gac | p.Asn172Asp/c.514A>G | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,720,396 | rs483146238 | T | C | atA/atG | p.Ile146Met/c.438A>G | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,731,889 | rs110915292 | T | C | gTc/gCc | p.Val188Ala/c.563T>C | OR2AG1 | ENSBTAT00000064813 |
| 15 | 46,732,146 | rs209575001 | G | A | Gtc/Atc | p.Val274Ile/c.820G>A | OR2AG1 | ENSBTAT00000064813 |
| 15 | 46,855,522 | rs208409242 | T | A | aTg/aAg | p.Met430Lys/c.1289T>A | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 47,113,447 | rs41767729 | T | G | gAc/gCc | p.Asp3798Ala/c.11393A>C | DNHD1 | ENSBTAT00000019733 |
| 15 | 47,126,285 | rs41767670 | T | C | cAc/cGc | p.His2949Arg/c.8846A>G | DNHD1 | ENSBTAT00000019733 |
| 15 | 47,439,101 | rs43016031 | T | C | tTa/tCa | p.Leu43Ser/c.128T>C | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,439,160 | rs43016032 | C | G | Cag/Gag | p.Gln63Glu/c.187C>G | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,439,907 | rs43016051 | T | A | Ttt/Att | p.Phe310Ile/c.928T>A | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,982,345 | rs43018556 | A | G | cAc/cGc | p.His133Arg/c.398A>G | OR52N1 | ENSBTAT00000011915 |
| 15 | 48,164,661 | rs41986321 | C | T | Gta/Ata | p.Val323Ile/c.967G>A | ENSBTAG00000026924 | ENSBTAT00000038532 |
| 15 | 48,191,469 | rs210732300 | T | C | cAa/cGa | p.Gln230Arg/c.689A>G | ENSBTAG00000046618 | ENSBTAT00000064814 |
| 15 | 48,191,574 | rs135441451 | T | C | cAg/cGg | p.Gln195Arg/c.584A>G | ENSBTAG00000046618 | ENSBTAT00000064814 |
| 15 | 48,191,646 | rs209938116 | T | A | aAg/aTg | p.Lys171Met/c.512A>T | ENSBTAG00000046618 | ENSBTAT00000064814 |
| 15 | 48,330,022 | rs380392884 | G | A | gGt/gAt | p.Gly250Asp/c.749G>A | ENSBTAG00000005609 | ENSBTAT00000040169 |
| 15 | 48,332,023 | rs379066355 | T | C | Tca/Cca | p.Ser340Pro/c.1018T>C | ENSBTAG00000005609 | ENSBTAT00000040169 |
| 15 | 48,332,231 | rs211114572 | T | G | gaT/gaG | p.Asp395Glu/c.1185T>G | ENSBTAG00000005609 | ENSBTAT00000040169 |
| 15 | 48,332,385 | rs208821675 | T | A | Tct/Act | p.Ser447Thr/c.1339T>A | ENSBTAG00000005609 | ENSBTAT00000040169 |
| 15 | 48,332,403 | rs208688331 | C | T | Cat/Tat | p.His453Tyr/c.1357C>T | ENSBTAG00000005609 | ENSBTAT00000040169 |
| 15 | 48,429,525 | rs208891153 | T | C | tAt/tGt | p.Tyr339Cys/c.1016A>G | TRIM5 | ENSBTAT00000005971 |
| 15 | 48,430,200 | rs209750435 | A | G | gTt/gCt | p.Val280Ala/c.839T>C | TRIM5 | ENSBTAT00000005971 |
| 15 | 48,436,739 | rs209504468 | G | C | gCt/gGt | p.Ala127Gly/c.380C>G | TRIM5 | ENSBTAT00000005971 |
| 15 | 49,527,750 | rs137737718 | A | G | Atc/Gtc | p.Ile41Val/c.121A>G | ENSBTAG00000038899 | ENSBTAT00000052925 |
| 15 | 49,528,056 | rs42923029 | C | T | Cgc/Tgc | p.Arg143Cys/c.427C>T | ENSBTAG00000038899 | ENSBTAT00000052925 |
| 15 | 50,965,034 | rs134840070 | A | G | Atc/Gtc | p.Ile297Val/c.889A>G | ENSBTAG00000034711 | ENSBTAT00000049151 |
| 15 | 53,633,847 | rs133504747 | A | G | Atc/Gtc | p.Ile1156Val/c.3466A>G | ARHGEF17 | ENSBTAT00000061460 |
| 15 | 64,391,731 | rs42868046 | C | T | aCc/aTc | p.Thr610Ile/c.1829C>T | QSER1 | ENSBTAT00000019146 |
| 15 | 64,984,314 | rs41774011 | A | G | aAt/aGt | p.Asn563Ser/c.1688A>G | KIAA1549L | ENSBTAT00000017070 |
| 15 | 64,984,460 | rs41774012 | C | G | Cct/Gct | p.Pro612Ala/c.1834C>G | KIAA1549L | ENSBTAT00000017070 |
| 15 | 66,208,534 | rs43705159 | C | T | Gtg/Atg | p.Val181Met/c.541G>A | APIP | ENSBTAT00000024300 |
| 15 | 79,209,012 | rs41789924 | A | G | cAg/cGg | p.Gln231Arg/c.692A>G | OR4S1 | ENSBTAT00000044039 |
| 15 | 79,573,436 | rs134346311 | T | G | ttT/ttG | p.Phe82Leu/c.246T>G | ENSBTAG00000027275 | ENSBTAT00000039086 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 15 | 79,573,839 | rs380768572 | A | G | Att/Gtt | p.Ile217Val/c.649A>G | ENSBTAG00000027275 | ENSBTAT00000039086 |
| 15 | 81,106,711 | rs43001469 | A | C | Tcc/Gcc | p.Ser119Ala/c.355T>G | ENSBTAG00000023542 | ENSBTAT00000004430 |
| 15 | 81,220,101 | rs211683493 | A | G | Tgc/Cgc | p.Cys234Arg/c.700T>C | ENSBTAG00000040463 | ENSBTAT00000055990 |
| 15 | 81,872,510 | rs209026236 | C | G | aGc/aCc | p.Ser102Thr/c.305G>C | PRG3 | ENSBTAT00000014055 |
| 15 | 81,872,621 | rs207681163 | A | T | gTg/gAg | p.Val65Glu/c.194T>A | PRG3 | ENSBTAT00000014055 |
| 15 | 81,949,123 | rs135462315 | T | C | cAa/cGa | p.Gln206Arg/c.617A>G | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 81,949,943 | rs132806506 | T | C | cAa/cGa | p.Gln185Arg/c.554A>G | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 81,949,967 | rs134646373 | T | C | cAc/cGc | p.His177Arg/c.530A>G | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 81,955,560 | rs136395049 | G | C | caC/caG | p.His120Gln/c.360C>G | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 81,955,580 | rs136907367 | C | T | Ggg/Agg | p.Gly114Arg/c.340G>A | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 81,955,744 | rs137794691 | A | G | tTg/tCg | p.Leu59Ser/c.176T>C | ENSBTAG00000040320 | ENSBTAT00000027035 |
| 15 | 82,561,297 | rs42804861 | T | C | tTg/tCg | p.Leu194Ser/c.581T>C | OR6Q1 | ENSBTAT00000010481 |
| 15 | 83,053,481 | rs109895992 | C | T | Gtc/Atc | p.Val302Ile/c.904G>A | ENSBTAG00000047464 | ENSBTAT00000037031 |
| 15 | 83,477,833 | rs41787690 | A | G | Ttt/Ctt | p.Phe122Leu/c.364T>C | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 15 | 83,477,857 | rs41787689 | C | T | Gta/Ata | p.Val114Ile/c.340G>A | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 15 | 83,887,402 | rs110985622 | T | C | aAg/aGg | p.Lys87Arg/c.260A>G | ENSBTAG00000040023 | ENSBTAT00000053955 |
| 16 | 6,104,470 | rs135576379 | G | A | aGc/aAc | p.Ser497Asn/c.1490G>A | CFH | ENSBTAT00000029340 |
| 16 | 12,792,815 | rs136040928 | C | T | tGt/tAt | p.Cys47Tyr/c.140G>A | TROVE2 | ENSBTAT00000018350 |
| 16 | 16,039,905 | rs135071345 | C | T | tCg/tTg | p.Ser171Leu/c.512C>T | BRINP3 | ENSBTAT00000011078 |
| 16 | 24,285,777 | rs438041506 | T | A | tTt/tAt | p.Phe20Tyr/c.59T>A | IARS2 | ENSBTAT00000061457 |
| 16 | 26,810,995 | rs109913603 | A | G | Att/Gtt | p.Ile605Val/c.1813A>G | MIA3 | ENSBTAT00000025055 |
| 16 | 37,994,022 | rs469121151 | T | C | Agc/Ggc | p.Ser1248Gly/c.3742A>G | ENSBTAG00000017722 | ENSBTAT00000023573 |
| 16 | 38,058,396 | rs133251425 | G | T | Cct/Act | p.Pro617Thr/c.1849C>A | SELP | ENSBTAT00000046869 |
| 16 | 38,071,757 | rs110850856 | G | C | Ctg/Gtg | p.Leu420Val/c.1258C>G | SELP | ENSBTAT00000046869 |
| 16 | 39,527,998 | rs109214892 | A | G | gAa/gGa | p.Glu287Gly/c.860A>G | FMO3 | ENSBTAT00000027444 |
| 16 | 47,673,287 | rs43713342 | T | C | Atg/Gtg | p.Met324Val/c.970A>G | TAS1R1 | ENSBTAT00000022243 |
| 16 | 47,749,911 | rs109051997 | A | C | Atc/Ctc | p.Ile983Leu/c.2947A>C | PLEKHG5 | ENSBTAT00000022238 |
| 16 | 52,889,618 | rs41810760 | C | T | cGt/cAt | p.Arg2066His/c.6197G>A | SPEN | ENSBTAT00000024930 |
| 16 | 55,244,650 | rs42599931 | C | T | atG/atA | p.Met1244Ile/c.3732G>A | KDM5B | ENSBTAT00000028871 |
| 16 | 55,566,550 | rs42900152 | G | C | tGc/tCc | p.Cys148Ser/c.443G>C | ENSBTAG00000019931 | ENSBTAT00000026550 |
| 16 | 56,044,240 | rs43122206 | T | C | cTc/cCc | p.Leu34Pro/c.101T>C | ENSBTAG00000015600 | ENSBTAT00000020723 |
| 16 | 56,044,840 | rs43122204 | G | A | Ggg/Agg | p.Gly99Arg/c.295G>A | ENSBTAG00000015600 | ENSBTAT00000020723 |
| 16 | 67,328,203 | rs135740980 | T | C | Ata/Gta | p.Ile451Val/c.1351A>G | FAM129A | ENSBTAT00000019338 |
| 16 | 68,698,941 | rs41820800 | T | C | aTt/aCt | p.Ile5132Thr/c.15395T>C | HMCN1 | ENSBTAT00000061144 |
| 16 | 68,874,509 | rs110452465 | A | G | Act/Gct | p.Thr101Ala/c.301A>G | PRG4 | ENSBTAT00000015839 |
| 16 | 68,877,102 | rs110320589 | T | C | aTt/aCt | p.Ile144Thr/c.431T>C | PRG4 | ENSBTAT00000015839 |
| 16 | 68,882,016 | rs109282393 | C | T | Cca/Tca | p.Pro1025Ser/c.3073C>T | PRG4 | ENSBTAT00000015839 |
| 16 | 72,633,084 | rs41820186 | C | T | Ctt/Ttt | p.Leu57Phe/c.169C>T | C16H1orf227 | ENSBTAT00000013209 |
| 16 | 72,753,195 | rs41822500 | G | A | Gcg/Acg | p.Ala94Thr/c.280G>A | BATF3 | ENSBTAT00000015898 |
| 16 | 72,812,412 | rs41823560 | C | T | cGg/cAg | p.Arg455Gln/c.1364G>A | FAM71A | ENSBTAT00000028208 |
| 16 | 72,812,491 | rs41823561 | G | A | Cgc/Tgc | p.Arg429Cys/c.1285C>T | FAM71A | ENSBTAT00000028208 |
| 16 | 72,812,556 | rs41823562 | T | C | cAc/cGc | p.His407Arg/c.1220A>G | FAM71A | ENSBTAT00000028208 |
| 16 | 75,599,601 | . | A | G | Agt/Ggt | p.Ser763Gly/c.2287A>G | LAMB3 | ENSBTAT00000022005 |
| 16 | 77,507,247 | rs137319897 | C | T | aGc/aAc | p.Ser184Asn/c.551G>A | CD46 | ENSBTAT00000007107 |
| 16 | 77,943,372 | rs134424120 | C | T | Gcc/Acc | p.Ala2879Thr/c.8635G>A | ASPM | ENSBTAT00000010340 |
| 16 | 77,943,440 | rs110954010 | A | G | aTa/aCa | p.Ile2856Thr/c.8567T>C | ASPM | ENSBTAT00000010340 |
| 16 | 77,944,646 | rs110333888 | C | T | cGa/cAa | p.Arg2454Gln/c.7361G>A | ASPM | ENSBTAT00000010340 |
| 16 | 77,944,694 | rs110433825 | C | T | cGa/cAa | p.Arg2438Gln/c.7313G>A | ASPM | ENSBTAT00000010340 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 16 | 77,944,914 | rs109449991 | C | G | Gag/Cag | p.Glu2365Gln/c.7093G>C | ASPM | ENSBTAT00000010340 |
| 16 | 77,945,558 | rs110448352 | G | A | aCg/aTg | p.Thr2150Met/c.6449C>T | ASPM | ENSBTAT00000010340 |
| 16 | 77,945,592 | rs109575492 | G | A | Cgc/Tgc | p.Arg2139Cys/c.6415C>T | ASPM | ENSBTAT00000010340 |
| 16 | 77,945,716 | rs135113687 | C | G | caG/caC | p.Gln2097His/c.6291G>C | ASPM | ENSBTAT00000010340 |
| 16 | 77,945,988 | rs110722621 | C | T | Gca/Aca | p.Ala2007Thr/c.6019G>A | ASPM | ENSBTAT00000010340 |
| 16 | 77,946,092 | rs109988537 | C | T | cGg/cAg | p.Arg1972Gln/c.5915G>A | ASPM | ENSBTAT00000010340 |
| 16 | 77,947,628 | rs109049313 | C | T | cGg/cAg | p.Arg1460Gln/c.4379G>A | ASPM | ENSBTAT00000010340 |
| 16 | 77,960,722 | rs109784274 | G | A | aCg/aTg | p.Thr1080Met/c.3239C>T | ASPM | ENSBTAT00000010340 |
| 17 | 7,488,795 | rs41660814 | A | G | Aaa/Gaa | p.Lys2390Glu/c.7168A>G | LRBA | ENSBTAT00000061161 |
| 17 | 17,425,323 | rs109655987 | C | T | aCt/aTt | p.Thr783Ile/c.2348C>T | TBC1D9 | ENSBTAT00000029790 |
| 17 | 17,440,214 | rs108968643 | G | A | aGt/aAt | p.Ser961Asn/c.2882G>A | TBC1D9 | ENSBTAT00000029790 |
| 17 | 25,033,897 | rs109399185 | C | T | cCc/cTc | p.Pro76Leu/c.227C>T | ENSBTAG00000035012 | ENSBTAT00000049474 |
| 17 | 25,034,082 | rs109672675 | C | A | Cag/Aag | p.Gln138Lys/c.412C>A | ENSBTAG00000035012 | ENSBTAT00000049474 |
| 17 | 25,034,091 | rs110038283 | C | G | Caa/Gaa | p.Gln141Glu/c.421C>G | ENSBTAG00000035012 | ENSBTAT00000049474 |
| 17 | 25,035,280 | rs109228364 | G | A | cGt/cAt | p.Arg245His/c.734G>A | ENSBTAG00000035012 | ENSBTAT00000049474 |
| 17 | 25,054,494 | rs110609282 | G | A | cGg/cAg | p.Arg95Gln/c.284G>A | ENSBTAG00000040370 | ENSBTAT00000065402 |
| 17 | 25,054,674 | rs110623065 | A | G | aAg/aGg | p.Lys155Arg/c.464A>G | ENSBTAG00000040370 | ENSBTAT00000065402 |
| 17 | 25,057,101 | rs209521246 | G | C | aGa/aCa | p.Arg212Thr/c.635G>C | ENSBTAG00000040370 | ENSBTAT00000065402 |
| 17 | 25,057,348 | rs211035251 | G | A | gGa/gAa | p.Gly263Glu/c.788G>A | ENSBTAG00000040370 | ENSBTAT00000065402 |
| 17 | 25,121,819 | rs210564028 | A | C | gAg/gCg | p.Glu489Ala/c.1466A>C | PRAME | ENSBTAT00000050480 |
| 17 | 30,197,587 | rs136665745 | A | C | aTc/aGc | p.Ile341Ser/c.1022T>G | PLK4 | ENSBTAT00000055868 |
| 17 | 30,228,864 | rs381209772 | G | T | aCc/aAc | p.Thr815Asn/c.2444C>A | HSPA4L | ENSBTAT00000020838 |
| 17 | 34,751,067 | rs109140241 | T | C | Aca/Gca | p.Thr68Ala/c.202A>G | SPRY1 | ENSBTAT00000028307 |
| 17 | 35,151,069 | rs110484542 | A | G | Acg/Gcg | p.Thr59Ala/c.175A>G | NUDT6 | ENSBTAT00000007480 |
| 17 | 35,768,977 | rs110269914 | A | G | Agc/Ggc | p.Ser88Gly/c.262A>G | ENSBTAG00000046302 | ENSBTAT00000064593 |
| 17 | 35,769,396 | rs456121395 | A | T | gAg/gTg | p.Glu133Val/c.398A>T | ENSBTAG00000046302 | ENSBTAT00000064593 |
| 17 | 35,769,803 | rs210978271 | A | G | Atc/Gtc | p.Ile269Val/c.805A>G | ENSBTAG00000046302 | ENSBTAT00000064593 |
| 17 | 41,144,240 | rs134655494 | C | T | Gtg/Atg | p.Val40Met/c.118G>A | FNIP2 | ENSBTAT00000015882 |
| 17 | 47,049,950 | rs110835869 | C | T | Gcc/Acc | p.Ala740Thr/c.2218G>A | GPR133 | ENSBTAT00000027783 |
| 17 | 47,166,582 | rs135805520 | G | A | Cca/Tca | p.Pro286Ser/c.856C>T | GPR133 | ENSBTAT00000027783 |
| 17 | 47,169,621 | rs109650119 | C | T | aGc/aAc | p.Ser247Asn/c.740G>A | GPR133 | ENSBTAT00000027783 |
| 17 | 50,736,489 | rs378451459 | G | A | cGg/cAg | p.Arg228Gln/c.683G>A | ENSBTAG00000046439 | ENSBTAT00000063097 |
| 17 | 51,217,685 | rs211484130 | G | A | cCa/cTa | p.Pro260Leu/c.779C>T | ENSBTAG00000047597 | ENSBTAT00000030104 |
| 17 | 51,219,178 | rs109124609 | C | A | ttG/tTt | p.Leu113Phe/c.339G>T | ENSBTAG00000047597 | ENSBTAT00000030104 |
| 17 | 51,219,556 | rs210083855 | T | C | Agg/Ggg | p.Arg13Gly/c.37A>G | ENSBTAG00000047597 | ENSBTAT00000030104 |
| 17 | 51,818,571 | rs207888791 | A | G | Atg/Gtg | p.Met339Val/c.1015A>G | ENSBTAG00000046986 | ENSBTAT00000064350 |
| 17 | 51,818,607 | . | G | A | Gtg/Atg | p.Val351Met/c.1051G>A | ENSBTAG00000046986 | ENSBTAT00000064350 |
| 17 | 51,818,622 | . | A | C | Aac/Cac | p.Asn356His/c.1066A>C | ENSBTAG00000046986 | ENSBTAT00000064350 |
| 17 | 53,104,143 | rs134909706 | G | A | Gtc/Atc | p.Val298Ile/c.892G>A | DHX37 | ENSBTAT00000027206 |
| 17 | 53,112,655 | rs109941441 | C | T | Cgc/Tgc | p.Arg654Cys/c.1960C>T | DHX37 | ENSBTAT00000027206 |
| 17 | 54,260,546 | rs110741660 | T | C | Aaa/Gaa | p.Lys427Glu/c.1279A>G | TCTN2 | ENSBTAT00000009562 |
| 17 | 65,887,074 | rs110100690 | T | C | gTt/gCt | p.Val93Ala/c.278T>C | MMAB | ENSBTAT00000006821 |
| 17 | 71,314,935 | rs41852917 | G | A | Gaa/Aaa | p.Glu143Lys/c.427G>A | HORMAD2 | ENSBTAT00000029451 |
| 17 | 72,747,746 | rs110402225 | C | T | Ggt/Agt | p.Gly608Ser/c.1822G>A | SLC5A4 | ENSBTAT00000010678 |
| 17 | 73,302,567 | rs41856326 | A | G | Atc/Gtc | p.Ile56Val/c.166A>G | GSTT1 | ENSBTAT00000007403 |
| 18 | 1,934,548 | rs209621489 | T | C | aAa/aGa | p.Lys218Arg/c.653A>G | PDPR | ENSBTAT00000021895 |
| 18 | 1,935,444 | rs384918556 | C | T | Gtc/Atc | p.Val179Ile/c.535G>A | PDPR | ENSBTAT00000021895 |
| 18 | 10,072,719 | rs109709733 | C | T | gCc/gTc | p.Ala421Val/c.1262C>T | CDH13 | ENSBTAT00000054165 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 18 | 15,402,202 | rs41861333 | T | C | gTg/gCg | p.Val449Ala/c.1346T>C | GPT2 | ENSBTAT00000003881 |
| 18 | 38,484,964 | rs41874213 | C | T | aCg/aTg | p.Thr2811Met/c.8432C>T | ZFHX3 | ENSBTAT00000019489 |
| 18 | 43,585,004 | rs41879795 | C | G | gaG/gaC | p.Glu448Asp/c.1344G>C | RHPN2 | ENSBTAT00000004021 |
| 18 | 43,685,890 | rs133428188 | T | C | Tgc/Cgc | p.Cys341Arg/c.1021T>C | GPATCH1 | ENSBTAT00000000963 |
| 18 | 43,694,038 | rs41881585 | G | A | aGc/aAc | p.Ser649Asn/c.1946G>A | GPATCH1 | ENSBTAT00000000963 |
| 18 | 46,232,631 | rs41883772 | T | C | aTg/aCg | p.Met306Thr/c.917T>C | CD22 | ENSBTAT00000015781 |
| 18 | 46,533,798 | rs134341733 | T | C | aTg/aCg | p.Met432Thr/c.1295T>C | HAUS5 | ENSBTAT00000017877 |
| 18 | 46,617,862 | rs110291316 | G | T | gGc/gTc | p.Gly141Val/c.422G>T | ZBTB32 | ENSBTAT00000032282 |
| 18 | 46,661,460 | rs211183385 | G | A | Gtc/Atc | p.Val189Ile/c.565G>A | PROSER3 | ENSBTAT00000064272 |
| 18 | 46,667,479 | rs207761391 | G | C | cGc/cCc | p.Arg311Pro/c.932G>C | PROSER3 | ENSBTAT00000064272 |
| 18 | 49,740,502 | rs42801405 | T | C | Aga/Gga | p.Arg952Gly/c.2854A>G | FCGBP | ENSBTAT00000006924 |
| 18 | 50,193,397 | rs132762093 | T | C | Tcc/Ccc | p.Ser1166Pro/c.3496T>C | LTBP4 | ENSBTAT00000065855 |
| 18 | 51,754,558 | rs211256933 | A | G | Tgt/Cgt | p.Cys475Arg/c.1423T>C | ENSBTAG00000006859 | ENSBTAT00000007381 |
| 18 | 51,992,025 | rs41622427 | G | A | aCg/aTg | p.Thr324Met/c.971C>T | LYPD3 | ENSBTAT00000024068 |
| 18 | 52,120,420 | rs133189900 | A | T | Atg/Ttg | p.Met1?/c.1A>T | PINLYP | ENSBTAT00000031940 |
| 18 | 52,120,448 | rs41892363 | C | T | aCc/aTc | p.Thr10Ile/c.29C>T | PINLYP | ENSBTAT00000031940 |
| 18 | 56,208,157 | rs133628033 | C | A | Gat/Tat | p.Asp69Tyr/c.205G>T | ENSBTAG00000030502 | ENSBTAT00000010986 |
| 18 | 56,374,145 | rs211041653 | T | C | aTg/aCg | p.Met464Thr/c.1391T>C | ALDH16A1 | ENSBTAT00000043139 |
| 18 | 57,618,804 | rs110127028 | A | T | gaT/gaA | p.Asp113Glu/c.339T>A | ENSBTAG00000047301 | ENSBTAT00000053046 |
| 18 | 57,681,249 | rs136849210 | A | G | cAt/cGt | p.His906Arg/c.2717A>G | ENSBTAG00000037699 | ENSBTAT00000022417 |
| 18 | 60,070,095 | rs135056031 | T | C | cAg/cGg | p.Gln781Arg/c.2342A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,070,420 | rs133670857 | C | T | Gct/Act | p.Ala673Thr/c.2017G>A | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,099 | rs210481378 | C | T | Gtt/Att | p.Val451Ile/c.1351G>A | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,165 | rs447583392 | G | A | Cct/Tct | p.Pro429Ser/c.1285C>T | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,185 | rs208933449 | T | C | aAa/aGa | p.Lys422Arg/c.1265A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,198 | rs382374202 | T | C | Aga/Gga | p.Arg418Gly/c.1252A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,282 | rs207642753 | T | C | Act/Gct | p.Thr390Ala/c.1168A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,299 | rs132952535 | T | C | aAt/aGt | p.Asn384Ser/c.1151A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,031 | rs43024479 | T | C | Aaa/Gaa | p.Lys138Glu/c.412A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,788 | rs43024497 | G | A | Caa/Taa | p.Gln116*/c.346C>T | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,802 | rs43024498 | A | G | gTt/gCt | p.Val111Ala/c.332T>C | ZNF845 | ENSBTAT00000028697 |
| 18 | 61,208,010 | rs207890454 | A | G | gTc/gCc | p.Val425Ala/c.1274T>C | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 61,208,899 | rs132724528 | A | G | aTt/aCt | p.Ile270Thr/c.809T>C | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 61,208,944 | rs137426723 | C | T | cGa/cAa | p.Arg255Gln/c.764G>A | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 61,230,777 | rs383959294 | A | C | aAc/aCc | p.Asn465Thr/c.1394A>C | ENSBTAG00000000336 | ENSBTAT00000002953 |
| 18 | 61,832,948 | rs379802701 | T | C | cTc/cCc | p.Leu109Pro/c.326T>C | ENSBTAG00000013345 | ENSBTAT00000020050 |
| 18 | 63,759,874 | rs133653983 | T | C | cAa/cGa | p.Gln348Arg/c.1043A>G | ENSBTAG00000046087 | ENSBTAT00000056913 |
| 18 | 63,759,883 | rs137759520 | C | G | aGt/aCt | p.Ser345Thr/c.1034G>C | ENSBTAG00000046087 | ENSBTAT00000056913 |
| 18 | 63,759,947 | rs210781267 | T | A | Acc/Tcc | p.Thr324Ser/c.970A>T | ENSBTAG00000046087 | ENSBTAT00000056913 |
| 18 | 63,760,823 | rs435401323 | G | A | tCg/tTg | p.Ser156Leu/c.467C>T | ENSBTAG00000046087 | ENSBTAT00000056913 |
| 18 | 63,905,410 | rs110118869 | T | C | cAt/cGt | p.His197Arg/c.590A>G | ZNF583 | ENSBTAT00000053429 |
| 18 | 64,273,773 | rs209132062 | T | C | tAc/tGc | p.Tyr1360Cys/c.4079A>G | bta-mir-2900 | ENSBTAT00000031743 |
| 18 | 65,048,379 | rs41892907 | A | T | Act/Tct | p.Thr91Ser/c.271A>T | ZNF134 | ENSBTAT00000006170 |
| 19 | 5,340,016 | rs135295022 | G | C | Gaa/Caa | p.Glu125Gln/c.373G>C | STXBP4 | ENSBTAT00000021395 |
| 19 | 9,253,002 | rs135910608 | T | C | aTg/aCg | p.Met48Thr/c.143T>C | ENSBTAG00000047870 | ENSBTAT00000063392 |
| 19 | 9,253,337 | rs133699826 | G | C | Gtg/Ctg | p.Val160Leu/c.478G>C | ENSBTAG00000047870 | ENSBTAT00000063392 |
| 19 | 9,253,449 | rs137368487 | T | C | tTc/tCc | p.Phe197Ser/c.590T>C | ENSBTAG00000047870 | ENSBTAT00000063392 |
| 19 | 9,316,595 | rs133731539 | G | A | Gtt/Att | p.Val157Ile/c.469G>A | ENSBTAG00000045769 | ENSBTAT00000063437 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 19 | 9,676,673 | rs109649580 | T | C | tAc/tGc | p.Tyr823Cys/c.2468A>G | MTMR4 | ENSBTAT00000030189 |
| 19 | 9,851,943 | rs110567784 | G | C | Ggg/Cgg | p.Gly92Arg/c.274G>C | MGC137055 | ENSBTAT00000004247 |
| 19 | 12,571,398 | rs441173913 | C | T | Cga/Tga | p.Arg21*/c.61C>T | ENSBTAG00000045964 | ENSBTAT00000034857 |
| 19 | 13,526,663 | rs135272474 | A | C | gAa/gCa | p.Glu411Ala/c.1232A>C | ENSBTAG00000000560 | ENSBTAT00000000730 |
| 19 | 14,160,423 | rs133348831 | C | T | Ggt/Agt | p.Gly735Ser/c.2203G>A | SYNRG | ENSBTAT00000013601 |
| 19 | 14,640,978 | rs111002312 | G | T | Cat/Aat | p.His66Asn/c.196C>A | ENSBTAG00000039504 | ENSBTAT00000048097 |
| 19 | 21,753,544 | rs109496421 | C | A | gCg/gAg | p.Ala654Glu/c.1961C>A | EFCAB5 | ENSBTAT00000063069 |
| 19 | 22,115,063 | rs109461583 | A | G | Ata/Gta | p.Ile78Val/c.232A>G | GOSR1 | ENSBTAT00000006525 |
| 19 | 22,652,502 | rs110509854 | T | G | Tca/Gca | p.Ser280Ala/c.838T>G | GLOD4 | ENSBTAT00000025501 |
| 19 | 23,310,008 | . | T | C | Agc/Ggc | p.Ser794Gly/c.2380A>G | SCARF1 | ENSBTAT00000015261 |
| 19 | 23,395,854 | rs132653867 | A | G | Agc/Ggc | p.Ser220Gly/c.658A>G | WDR81 | ENSBTAT00000015274 |
| 19 | 23,397,766 | rs136879266 | C | T | Cgt/Tgt | p.Arg479Cys/c.1435C>T | WDR81 | ENSBTAT00000015274 |
| 19 | 23,397,793 | rs109841018 | G | A | Gcg/Acg | p.Ala488Thr/c.1462G>A | WDR81 | ENSBTAT00000015274 |
| 19 | 23,453,974 | rs133153788 | C | A | Gtg/Ttg | p.Val346Leu/c.1036G>T | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,454,181 | rs137246711 | G | A | Cgg/Tgg | p.Arg277Trp/c.829C>T | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,454,295 | rs109098013 | T | C | Ata/Gta | p.Ile239Val/c.715A>G | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,454,441 | rs136848887 | G | A | aCc/aTc | p.Thr190Ile/c.569C>T | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,454,510 | rs109702262 | G | A | aCt/aTt | p.Thr167Ile/c.500C>T | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,454,639 | rs132983096 | A | G | aTa/aCa | p.Ile124Thr/c.371T>C | SMYD4 | ENSBTAT00000012805 |
| 19 | 23,508,655 | . | A | G | Acc/Gcc | p.Thr135Ala/c.403A>G | RPA1 | ENSBTAT00000012812 |
| 19 | 23,806,402 | rs137665756 | A | C | Tta/Gta | p.Leu916Val/c.2746T>G | SMG6 | ENSBTAT00000000333 |
| 19 | 24,711,670 | rs109444163 | G | A | tCt/tTt | p.Ser215Phe/c.644C>T | ENSBTAG00000038059 | ENSBTAT00000053598 |
| 19 | 24,814,910 | rs41598102 | A | G | Tgt/Cgt | p.Cys255Arg/c.763T>C | SPATA22 | ENSBTAT00000020932 |
| 19 | 25,265,735 | rs41905222 | T | C | Atg/Gtg | p.Met1493Val/c.4477A>G | ZZEF1 | ENSBTAT00000061398 |
| 19 | 25,902,273 | rs211337871 | T | C | tTt/tCt | p.Phe147Ser/c.440T>C | ENSBTAG00000047858 | ENSBTAT00000064610 |
| 19 | 27,671,010 | rs41904721 | C | T | gCc/gTc | p.Ala336Val/c.1007C>T | ENSBTAG00000045892 | ENSBTAT00000064525 |
| 19 | 27,894,909 | rs110238037 | A | G | tAt/tGt | p.Tyr110Cys/c.329A>G | TNFSF12 | ENSBTAT00000045584 |
| 19 | 28,312,344 | rs41907896 | A | G | gAt/gGt | p.Asp335Gly/c.1004A>G | ALOX15B | ENSBTAT00000011570 |
| 19 | 28,393,172 | rs110179795 | A | G | Tct/Cct | p.Ser893Pro/c.2677T>C | PER1 | ENSBTAT00000005076 |
| 19 | 29,970,036 | rs109499590 | A | C | cTc/cGc | p.Leu1179Arg/c.3536T>G | MYH13 | ENSBTAT00000035550 |
| 19 | 36,034,198 | rs41909774 | A | G | Tgt/Cgt | p.Cys403Arg/c.1207T>C | ENSBTAG00000018840 | ENSBTAT00000025086 |
| 19 | 41,559,054 | rs110891678 | T | C | aAt/aGt | p.Asn326Ser/c.977A>G | KRT24 | ENSBTAT00000027749 |
| 19 | 42,328,121 | rs43728354 | T | C | cAg/cGg | p.Gln198Arg/c.593A>G | KRT36 | ENSBTAT00000006440 |
| 19 | 42,886,802 | rs43756545 | A | G | gTc/gCc | p.Val175Ala/c.524T>C | LGP2 | ENSBTAT00000065738 |
| 19 | 44,545,686 | rs378714431 | A | T | gTg/gAg | p.Val594Glu/c.1781T>A | HDAC5 | ENSBTAT00000061581 |
| 19 | 49,068,123 | rs42993792 | G | C | cCc/cGc | p.Pro141Arg/c.422C>G | TEX2 | ENSBTAT00000006196 |
| 19 | 50,631,870 | rs109545022 | T | C | aTg/aCg | p.Met161Thr/c.482T>C | WDR45L | ENSBTAT00000004811 |
| 19 | 54,639,181 | rs109065101 | G | C | caC/caG | p.His293Gln/c.879C>G | TMC8 | ENSBTAT00000025384 |
| 19 | 54,642,087 | rs133278144 | A | C | gTg/gGg | p.Val7Gly/c.20T>G | TMC8 | ENSBTAT00000025384 |
| 19 | 54,642,092 | rs134981643 | C | G | tgG/tgC | p.Trp5Cys/c.15G>C | TMC8 | ENSBTAT00000025384 |
| 19 | 57,090,902 | rs208485085 | T | G | Tcc/Gcc | p.Ser501Ala/c.1501T>G | HID1 | ENSBTAT00000014318 |
| 19 | 57,726,930 | rs208886514 | G | C | aaC/aaG | p.Asn879Lys/c.2637C>G | KIF19 | ENSBTAT00000006057 |
| 19 | 57,728,231 | rs132934030 | T | C | Acc/Gcc | p.Thr714Ala/c.2140A>G | KIF19 | ENSBTAT00000006057 |
| 19 | 57,728,555 | rs135047844 | G | A | cCg/cTg | p.Pro687Leu/c.2060C>T | KIF19 | ENSBTAT00000006057 |
| 19 | 63,844,912 | rs136152684 | T | C | Aga/Gga | p.Arg533Gly/c.1597A>G | HELZ | ENSBTAT00000006233 |
| 20 | 499,501 | rs108961511 | A | G | Tca/Cca | p.Ser78Pro/c.232T>C | SLIT3 | ENSBTAT00000049620 |
| 20 | 6,646,753 | rs41930641 | T | C | tTa/tCa | p.Leu365Ser/c.1094T>C | FAM169A | ENSBTAT00000021301 |
| 20 | 9,973,396 | rs41934002 | C | T | gGt/gAt | p.Gly1471Asp/c.4412G>A | BDP1 | ENSBTAT00000000474 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|-------------------------|---------------------|---------------------|
| 20 | 22,375,058 | rs109890744 | C | T | Ggt/Agt | p.Gly615Ser/c.1843G>A | MAP3K1 | ENSBTAT00000018325 |
| 20 | 33,479,090 | rs41949012 | A | G | Act/Gct | p.Thr503Ala/c.1507A>G | MROH2B | ENSBTAT00000002589 |
| 20 | 33,570,528 | rs109103020 | C | T | gGg/gAg | p.Gly548Glu/c.1643G>A | C7 | ENSBTAT000000056663 |
| 20 | 37,109,496 | rs41946451 | A | G | cAa/cGa | p.Gln514Arg/c.1541A>G | C5orf42 | ENSBTAT00000000774 |
| 20 | 37,116,700 | rs41946440 | G | A | Gat/Aat | p.Asp906Asn/c.2716G>A | C5orf42 | ENSBTAT00000000774 |
| 20 | 56,431,209 | rs42809089 | G | A | Gcg/Acg | p.Ala110Thr/c.328G>A | MYO10 | ENSBTAT000000026812 |
| 21 | 1,641,297 | rs109356637 | A | G | cAt/cGt | p.His386Arg/c.1157A>G | ENSBTAG000000023079 | ENSBTAT000000031388 |
| 21 | 6,102,031 | rs43757179 | T | G | Agt/Cgt | p.Ser122Arg/c.364A>C | ENSBTAG000000048048 | ENSBTAT000000065970 |
| 21 | 9,617,285 | rs41670790 | C | T | Gtt/Att | p.Val249Ile/c.745G>A | ENSBTAG000000046611 | ENSBTAT000000031701 |
| 21 | 20,427,478 | rs42898907 | A | G | Atg/Gtg | p.Met13Val/c.37A>G | ENSBTAG000000004339 | ENSBTAT000000005678 |
| 21 | 21,364,025 | rs109132136 | A | G | gTg/gCg | p.Val408Ala/c.1223T>C | RHCG | ENSBTAT000000007196 |
| 21 | 21,364,079 | rs110497704 | A | G | aTg/aCg | p.Met390Thr/c.1169T>C | RHCG | ENSBTAT000000007196 |
| 21 | 21,477,000 | rs110924425 | A | C | gaA/gaC | p.Glu1864Asp/c.5592A>C | TICRR | ENSBTAT000000003143 |
| 21 | 29,991,783 | rs137045209 | C | T | cCg/cTg | p.Pro204Leu/c.611C>T | ENSBTAG000000047130 | ENSBTAT000000065139 |
| 21 | 35,207,757 | rs110772105 | C | A | tgG/tgT | p.Trp50Cys/c.150G>T | ENSBTAG000000010828 | ENSBTAT000000014364 |
| 21 | 35,207,770 | rs109485745 | C | T | gGt/gAt | p.Gly46Asp/c.137G>A | ENSBTAG000000010828 | ENSBTAT000000014364 |
| 21 | 35,213,330 | rs132636886 | C | G | Gag/Cag | p.Glu16Gln/c.46G>C | ENSBTAG000000013055 | ENSBTAT000000017359 |
| 21 | 35,213,362 | rs447257630 | A | G | cTg/cCg | p.Leu5Pro/c.14T>C | ENSBTAG000000013055 | ENSBTAT000000017359 |
| 21 | 56,567,083 | rs41584199 | T | C | gTg/gCg | p.Val396Ala/c.1187T>C | C14orf159 | ENSBTAT000000061238 |
| 21 | 59,266,624 | rs207506043 | C | G | gGg/gCg | p.Gly275Ala/c.824G>C | DDX24 | ENSBTAT000000004441 |
| 21 | 69,465,667 | rs43005016 | A | G | Acc/Gcc | p.Thr520Ala/c.1558A>G | TNFAIP2 | ENSBTAT000000050485 |
| 21 | 71,045,057 | rs137491730 | C | T | aCc/aTc | p.Thr243Ile/c.728C>T | C14orf79 | ENSBTAT000000013688 |
| 22 | 7,526,148 | rs135777849 | A | G | Aat/Gat | p.Asn241Asp/c.721A>G | ENSBTAG000000034871 | ENSBTAT000000039410 |
| 22 | 7,597,212 | rs132926373 | T | C | aAc/aGc | p.Asn95Ser/c.284A>G | SUSD5 | ENSBTAT000000049275 |
| 22 | 12,088,551 | rs109649643 | A | G | aTc/aCc | p.Ile163Thr/c.488T>C | SCN5A | ENSBTAT000000012068 |
| 22 | 12,356,042 | rs109228784 | A | G | Tgc/Cgc | p.Cys48Arg/c.142T>C | SCN11A | ENSBTAT000000022822 |
| 22 | 15,246,226 | rs208440455 | T | G | Atc/Ctc | p.Ile128Leu/c.382A>C | LYZL4 | ENSBTAT000000024756 |
| 22 | 15,829,966 | rs110264478 | C | G | Gag/Cag | p.Glu215Gln/c.643G>C | ENSBTAG000000008244 | ENSBTAT000000010845 |
| 22 | 16,817,881 | rs41999637 | C | T | cGg/cAg | p.Arg418Gln/c.1253G>A | FANCD2 | ENSBTAT000000013299 |
| 22 | 35,299,377 | rs211437787 | A | G | gTt/gCt | p.Val120Ala/c.359T>C | SLC25A26 | ENSBTAT000000054584 |
| 22 | 48,314,004 | rs110946558 | T | C | Aca/Gca | p.Thr327Ala/c.979A>G | PRKCD | ENSBTAT000000011487 |
| 22 | 48,903,821 | rs109421999 | C | T | cGc/cAc | p.Arg192His/c.575G>A | STAB1 | ENSBTAT000000019663 |
| 22 | 49,073,708 | rs208206440 | C | G | gGt/gCt | p.Gly1578Ala/c.4733G>C | DNAH1 | ENSBTAT000000066095 |
| 22 | 50,351,313 | rs210898565 | T | G | Acc/Ccc | p.Thr209Pro/c.625A>C | HEMK1 | ENSBTAT000000005382 |
| 22 | 50,351,330 | rs208149156 | G | T | gCc/gAc | p.Ala203Asp/c.608C>A | HEMK1 | ENSBTAT000000005382 |
| 22 | 50,708,448 | rs42019238 | A | G | gTg/gCg | p.Val144Ala/c.431T>C | SLC38A3 | ENSBTAT000000011214 |
| 22 | 51,112,806 | rs42015565 | A | C | Tca/Gca | p.Ser1867Ala/c.5599T>G | BSN | ENSBTAT000000015386 |
| 22 | 51,114,698 | rs42015563 | T | C | cAc/cGc | p.His1236Arg/c.3707A>G | BSN | ENSBTAT000000015386 |
| 22 | 52,815,353 | rs110862179 | G | A | aGa/aAa | p.Arg1017Lys/c.3050G>A | SCAP | ENSBTAT000000020961 |
| 22 | 53,979,197 | rs42017539 | C | A | gCg/gAg | p.Ala677Glu/c.2030C>A | FYCO1 | ENSBTAT000000063071 |
| 22 | 54,002,329 | rs42018144 | T | C | cTg/cCg | p.Leu1300Pro/c.3899T>C | FYCO1 | ENSBTAT000000063071 |
| 22 | 56,086,663 | rs209194776 | G | A | tCt/tTt | p.Ser7Phe/c.20C>T | ENSBTAG000000031065 | ENSBTAT000000043977 |
| 22 | 58,419,370 | rs42286349 | T | C | Tgg/Cgg | p.Trp827Arg/c.2479T>C | GRIP2 | ENSBTAT000000015785 |
| 22 | 59,604,948 | rs110857852 | A | G | atA/atG | p.Ile355Met/c.1065A>G | ACAD9 | ENSBTAT000000050397 |
| 22 | 59,636,414 | rs209532566 | T | C | Atg/Gtg | p.Met141Val/c.421A>G | KIAA1257 | ENSBTAT000000065742 |
| 23 | 3,612,115 | rs109309915 | A | G | Act/Gct | p.Thr5480Ala/c.16438A>G | DST | ENSBTAT000000061451 |
| 23 | 7,204,606 | rs110978910 | T | C | Tca/Cca | p.Ser85Pro/c.253T>C | BOLA-DMA | ENSBTAT000000020881 |
| 23 | 7,219,659 | rs41255857 | T | C | cAc/cGc | p.His108Arg/c.323A>G | BOLA-DNA | ENSBTAT000000008504 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 23 | 16,340,958 | rs110696617 | A | G | aAa/aGa | p.Lys865Arg/c.2594A>G | UBR2 | ENSBTAT00000007833 |
| 23 | 20,225,619 | rs110692063 | T | C | Aag/Gag | p.Lys190Glu/c.568A>G | GPR110 | ENSBTAT00000028795 |
| 23 | 27,163,037 | rs133208780 | A | G | Acg/Gcg | p.Thr1483Ala/c.4447A>G | ENSBTAG00000006864 | ENSBTAT00000045468 |
| 23 | 27,207,359 | rs110310622 | T | C | aTa/aCa | p.Ile31Thr/c.92T>C | DOM3Z | ENSBTAT00000007340 |
| 23 | 27,217,994 | rs109186623 | C | T | Gaa/Aaa | p.Glu80Lys/c.238G>A | SKIV2L | ENSBTAT00000007339 |
| 23 | 27,333,684 | rs382492082 | C | T | atG/atA | p.Met5Ile/c.15G>A | HSPA1A | ENSBTAT00000017500 |
| 23 | 27,333,685 | rs385826597 | A | G | aTg/aCg | p.Met5Thr/c.14T>C | HSPA1A | ENSBTAT00000017500 |
| 23 | 27,602,261 | rs110901351 | T | C | Tgg/Cgg | p.Trp255Arg/c.763T>C | ENSBTAG00000008959 | ENSBTAT00000035878 |
| 23 | 27,844,805 | rs133109032 | T | C | tTa/tCa | p.Leu237Ser/c.710T>C | ENSBTAG00000007075 | ENSBTAT00000009299 |
| 23 | 28,739,018 | rs109457742 | T | C | cTg/cCg | p.Leu329Pro/c.986T>C | ZFP57 | ENSBTAT00000023710 |
| 23 | 29,032,579 | rs137849782 | T | C | Act/Gct | p.Thr252Ala/c.754A>G | ENSBTAG00000047763 | ENSBTAT00000063649 |
| 23 | 29,033,059 | rs208702780 | A | G | Ttc/Ctc | p.Phe92Leu/c.274T>C | ENSBTAG00000047763 | ENSBTAT00000063649 |
| 23 | 29,033,070 | rs210826763 | C | T | aGa/aAa | p.Arg88Lys/c.263G>A | ENSBTAG00000047763 | ENSBTAT00000063649 |
| 23 | 29,637,024 | rs109541853 | T | C | Aga/Gga | p.Arg170Gly/c.508A>G | ENSBTAG00000040187 | ENSBTAT00000052674 |
| 23 | 30,607,460 | rs109847091 | C | A | gCt/gAt | p.Ala19Asp/c.56C>A | ENSBTAG00000038597 | ENSBTAT00000056344 |
| 23 | 31,041,034 | rs211420919 | T | C | Tcg/Ccg | p.Ser60Pro/c.178T>C | POM121L2 | ENSBTAT00000033358 |
| 23 | 31,042,989 | rs109938786 | A | T | aaA/aaT | p.Lys711Asn/c.2133A>T | POM121L2 | ENSBTAT00000033358 |
| 23 | 32,757,188 | rs110040419 | T | C | tTg/tCg | p.Leu858Ser/c.2573T>C | FAM65B | ENSBTAT00000024178 |
| 23 | 43,014,007 | rs42039414 | T | C | aTg/aCg | p.Met155Thr/c.464T>C | TBC1D7 | ENSBTAT00000022819 |
| 23 | 50,490,560 | rs109183457 | T | C | Aac/Gac | p.Asn96Asp/c.286A>G | NQO2 | ENSBTAT00000040161 |
| 23 | 50,614,242 | rs210780870 | G | A | Gtc/Atc | p.Val125Ile/c.373G>A | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 23 | 50,615,327 | rs208585354 | A | G | Atc/Gtc | p.Ile168Val/c.502A>G | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 23 | 50,615,354 | rs207891256 | C | G | Cag/Gag | p.Gln177Glu/c.529C>G | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 24 | 9,741,756 | rs137672818 | T | A | Tct/Act | p.Ser245Thr/c.733T>A | DSEL | ENSBTAT00000056960 |
| 24 | 25,644,590 | rs109277335 | G | A | cGt/cAt | p.Arg921His/c.2762G>A | ENSBTAG00000007696 | ENSBTAT00000010121 |
| 24 | 33,176,129 | rs43176240 | A | T | cTt/cAt | p.Leu1373His/c.4118T>A | LAMA3 | ENSBTAT00000060991 |
| 24 | 33,626,581 | rs110927432 | T | C | Ttt/Ctt | p.Phe241Leu/c.721T>C | TMEM241 | ENSBTAT00000031064 |
| 24 | 54,177,321 | rs110827826 | G | C | ttG/ttC | p.Leu535Phe/c.1605G>C | POLI | ENSBTAT00000012034 |
| 24 | 56,568,338 | rs42057068 | T | C | Tgg/Cgg | p.Trp770Arg/c.2308T>C | WDR7 | ENSBTAT00000005230 |
| 24 | 62,365,234 | rs43200829 | G | T | Ctc/Atc | p.Leu303Ile/c.907C>A | SERPINB4 | ENSBTAT00000055709 |
| 24 | 62,518,295 | rs109741893 | T | C | tTt/tCt | p.Phe109Ser/c.326T>C | SERPINB7 | ENSBTAT00000053904 |
| 25 | 560,467 | rs436323460 | T | G | cTa/cGa | p.Leu302Arg/c.905T>G | STUB1 | ENSBTAT00000025473 |
| 25 | 560,469 | rs432656507 | A | T | Ata/Tta | p.Ile303Leu/c.907A>T | STUB1 | ENSBTAT00000025473 |
| 25 | 621,349 | rs110931297 | G | T | caC/caA | p.His344Gln/c.1032C>A | CCDC78 | ENSBTAT00000003211 |
| 25 | 656,972 | rs109320760 | A | G | Tgg/Cgg | p.Trp241Arg/c.721T>C | MSLNL | ENSBTAT00000047719 |
| 25 | 669,038 | rs110978775 | G | A | Gct/Act | p.Ala96Thr/c.286G>A | CHTF18 | ENSBTAT00000026311 |
| 25 | 2,963,192 | rs110609415 | G | A | cCg/cTg | p.Pro1194Leu/c.3581C>T | SLX4 | ENSBTAT00000005923 |
| 25 | 10,180,671 | rs110582892 | A | G | Tgg/Cgg | p.Trp394Arg/c.1180T>C | ENSBTAG00000013305 | ENSBTAT00000046675 |
| 25 | 11,273,964 | rs42056702 | T | G | Ttg/Gtg | p.Leu775Val/c.2323T>G | SNX29 | ENSBTAT00000037460 |
| 25 | 11,602,889 | rs109083142 | T | C | Act/Gct | p.Thr3Ala/c.7A>G | CPPED1 | ENSBTAT00000007071 |
| 25 | 26,312,729 | rs42072538 | G | C | cCg/cGg | p.Pro26Arg/c.77C>G | ENSBTAG00000018000 | ENSBTAT00000023952 |
| 25 | 26,317,395 | rs42071217 | A | G | Aat/Gat | p.Asn704Asp/c.2110A>G | APOBR | ENSBTAT00000037341 |
| 25 | 26,317,882 | rs42071214 | G | C | gGt/gCt | p.Gly866Ala/c.2597G>C | APOBR | ENSBTAT00000037341 |
| 25 | 26,318,276 | rs42071211 | A | G | gAg/gGg | p.Glu967Gly/c.2900A>G | APOBR | ENSBTAT00000037341 |
| 25 | 26,318,284 | rs42071210 | C | A | Ctc/Atc | p.Leu970Ile/c.2908C>A | APOBR | ENSBTAT00000037341 |
| 25 | 27,161,922 | rs42069062 | G | A | Ccg/Tcg | p.Pro126Ser/c.376C>T | ZNF629 | ENSBTAT00000037326 |
| 25 | 27,162,187 | rs42069061 | A | C | caT/caG | p.His37Gln/c.111T>G | ZNF629 | ENSBTAT00000037326 |
| 25 | 27,723,173 | rs42066019 | G | A | Gtc/Atc | p.Val480Ile/c.1438G>A | ITGAD | ENSBTAT00000026008 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 25 | 28,294,274 | rs42986714 | G | A | Gac/Aac | p.Asp138Asn/c.412G>A | CRCP | ENSBTAT00000053944 |
| 25 | 35,105,527 | rs42074328 | G | A | aGa/aAa | p.Arg42Lys/c.125G>A | ALKBH4 | ENSBTAT00000004717 |
| 25 | 38,264,342 | rs208937667 | C | G | atC/atG | p.Ile224Met/c.672C>G | BAIAP2L1 | ENSBTAT00000030984 |
| 25 | 38,927,249 | rs109294673 | T | C | Acc/Gcc | p.Thr179Ala/c.535A>G | GRID2IP | ENSBTAT00000004281 |
| 25 | 39,052,533 | rs109653367 | A | G | aTt/aCt | p.Ile186Thr/c.557T>C | ZNF12 | ENSBTAT00000053303 |
| 26 | 10,234,027 | rs207748307 | G | A | Gaa/Aaa | p.Glu104Lys/c.310G>A | LIPJ | ENSBTAT00000049487 |
| 26 | 10,438,698 | rs42775592 | G | A | Gag/Aag | p.Glu171Lys/c.511G>A | LIPK | ENSBTAT00000017773 |
| 26 | 17,591,768 | rs42085774 | C | G | gaG/gaC | p.Glu345Asp/c.1035G>C | TLL2 | ENSBTAT00000015593 |
| 26 | 19,166,147 | rs42092895 | A | G | Act/Gct | p.Thr580Ala/c.1738A>G | R3HCC1L | ENSBTAT00000029136 |
| 26 | 19,367,460 | rs42092098 | A | G | Tgg/Cgg | p.Trp485Arg/c.1453T>C | HPS1 | ENSBTAT00000019034 |
| 26 | 20,615,740 | rs378023463 | A | C | Att/Ctt | p.Ile25Leu/c.73A>C | ABCC2 | ENSBTAT00000047274 |
| 26 | 20,767,440 | rs42092981 | T | C | cAg/cGg | p.Gln544Arg/c.1631A>G | DNMBP | ENSBTAT00000011772 |
| 26 | 23,694,514 | rs209230756 | A | G | Tca/Cca | p.Ser509Pro/c.1525T>C | CYP17A1 | ENSBTAT00000019061 |
| 26 | 23,694,667 | rs136019502 | A | G | Tgg/Cgg | p.Trp458Arg/c.1372T>C | CYP17A1 | ENSBTAT00000019061 |
| 26 | 23,694,772 | rs211334387 | C | T | Gcg/Acg | p.Ala423Thr/c.1267G>A | CYP17A1 | ENSBTAT00000019061 |
| 26 | 23,697,090 | rs210616088 | A | G | aTg/aCg | p.Met238Thr/c.713T>C | CYP17A1 | ENSBTAT00000019061 |
| 26 | 24,676,360 | rs210539474 | T | C | tAc/tGc | p.Tyr60Cys/c.179A>G | ASMTL | ENSBTAT00000063610 |
| 26 | 24,854,246 | rs42093868 | G | A | Cct/Tct | p.Pro1036Ser/c.3106C>T | COL17A1 | ENSBTAT00000013271 |
| 26 | 25,719,142 | rs42110643 | G | A | aCg/aTg | p.Thr516Met/c.1547C>T | ENSBTAG00000010522 | ENSBTAT00000013918 |
| 26 | 43,851,248 | rs109049004 | A | G | aTg/aCg | p.Met394Thr/c.1181T>C | CPXM2 | ENSBTAT00000025207 |
| 26 | 50,638,138 | rs133031841 | T | C | gTg/gCg | p.Val260Ala/c.779T>C | ENSBTAG00000026185 | ENSBTAT00000037095 |
| 26 | 51,632,138 | rs133338619 | G | A | Gta/Ata | p.Val188Ile/c.562G>A | LRRC27 | ENSBTAT00000004943 |
| 27 | 1,333,400 | rs135558482 | A | T | gTc/gAc | p.Val765Asp/c.2294T>A | CSMD1 | ENSBTAT00000012850 |
| 27 | 4,800,159 | rs132667878 | G | A | Cgt/Tgt | p.Arg124Cys/c.370C>T | ENSBTAG00000008519 | ENSBTAT00000024416 |
| 27 | 4,998,837 | rs137380417 | A | T | tAc/tTc | p.Tyr178Phe/c.533A>T | ZNF705A | ENSBTAT00000065604 |
| 27 | 5,425,568 | rs43108924 | C | A | tGg/tTg | p.Trp42Leu/c.125G>T | ENSBTAG00000047284 | ENSBTAT00000065980 |
| 27 | 5,457,277 | rs133161383 | G | A | Ggc/Agc | p.Gly12Ser/c.34G>A | DEFB | ENSBTAT00000049993 |
| 27 | 15,357,133 | rs110400846 | A | G | Atg/Gtg | p.Met114Val/c.340A>G | F11 | ENSBTAT00000004648 |
| 27 | 15,357,257 | rs110060381 | A | G | cAc/cGc | p.His155Arg/c.464A>G | F11 | ENSBTAT00000004648 |
| 27 | 15,359,778 | rs110233554 | A | G | Atg/Gtg | p.Met219Val/c.655A>G | F11 | ENSBTAT00000004648 |
| 27 | 15,366,951 | rs110792040 | A | G | Aag/Gag | p.Lys437Glu/c.1309A>G | F11 | ENSBTAT00000004648 |
| 27 | 15,367,107 | rs137383357 | G | A | Gca/Aca | p.Ala489Thr/c.1465G>A | F11 | ENSBTAT00000004648 |
| 27 | 15,369,397 | rs110586435 | T | G | Ttg/Gtg | p.Leu615Val/c.1843T>G | F11 | ENSBTAT00000004648 |
| 27 | 34,914,268 | rs43731491 | T | A | ttA/tTt | p.Leu255Phe/c.765A>T | ENSBTAG00000018713 | ENSBTAT00000024910 |
| 27 | 39,862,074 | rs136564029 | A | G | gTc/gCc | p.Val374Ala/c.1121T>C | OXSM | ENSBTAT00000009250 |
| 28 | 6,084,058 | rs43682902 | A | G | tTg/tCg | p.Leu1091Ser/c.3272T>C | PCNXL2 | ENSBTAT00000017452 |
| 28 | 13,167,199 | rs137520061 | A | G | Tcc/Ccc | p.Ser483Pro/c.1447T>C | ZNF37A | ENSBTAT00000016862 |
| 28 | 13,589,389 | rs110056366 | G | C | Gcc/Ccc | p.Ala161Pro/c.481G>C | RET | ENSBTAT00000000744 |
| 28 | 15,122,549 | rs42135275 | C | G | cGg/cCg | p.Arg58Pro/c.173G>C | FAM13C | ENSBTAT00000023314 |
| 28 | 15,127,565 | rs109369836 | T | C | Aca/Gca | p.Thr26Ala/c.76A>G | FAM13C | ENSBTAT00000023314 |
| 28 | 19,797,293 | rs42177112 | A | G | Aca/Gca | p.Thr187Ala/c.559A>G | REEP3 | ENSBTAT00000052725 |
| 28 | 23,320,833 | rs42681735 | G | A | aCt/aTt | p.Thr400Ile/c.1199C>T | CTNNA3 | ENSBTAT00000063012 |
| 28 | 29,789,301 | rs449821648 | C | G | gGg/gCg | p.Gly138Ala/c.413G>C | MYOZ1 | ENSBTAT00000055220 |
| 28 | 35,700,054 | rs110467597 | A | G | Ata/Gta | p.Ile359Val/c.1075A>G | CL46 | ENSBTAT00000028716 |
| 28 | 39,436,869 | rs136134544 | T | C | gTt/gCt | p.Val27Ala/c.80T>C | GHITM | ENSBTAT00000046599 |
| 29 | 5,104,264 | rs109245189 | A | T | agT/agA | p.Ser397Arg/c.1191T>A | NAALAD2 | ENSBTAT00000000354 |
| 29 | 5,682,531 | rs42981617 | C | G | caG/caC | p.Gln433His/c.1299G>C | TRIM43 | ENSBTAT00000012117 |
| 29 | 5,748,349 | rs137442187 | T | G | agT/agG | p.Ser11Arg/c.33T>G | ENSBTAG00000038209 | ENSBTAT00000000458 |

| | | | | | | | | |
|--------|------------|-------------|---|---|---------|-------------------------|--------------------|---------------------|
| 29 | 5,751,066 | rs208046720 | G | A | Gaa/Aaa | p.Glu253Lys/c.757G>A | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,751,070 | rs209421286 | C | T | aCg/aTg | p.Thr254Met/c.761C>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,757,552 | rs209894977 | A | T | Acc/Tcc | p.Thr364Ser/c.1090A>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,757,789 | rs210083106 | C | T | Ctt/Ttt | p.Leu443Phe/c.1327C>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 17,389,281 | rs110865730 | C | G | gCc/gGc | p.Ala848Gly/c.2543C>G | TENM4 | ENSBTAT000000061315 |
| 29 | 27,150,961 | rs42179775 | A | G | Ttc/Ctc | p.Phe42Leu/c.124T>C | ENSBTAG00000022384 | ENSBTAT000000030301 |
| 29 | 27,693,354 | rs136019804 | G | A | gGt/gAt | p.Gly72Asp/c.215G>A | ENSBTAG00000017495 | ENSBTAT000000023280 |
| 29 | 27,787,219 | rs109414706 | C | T | Gca/Aca | p.Ala190Thr/c.568G>A | ENSBTAG00000040250 | ENSBTAT000000053331 |
| 29 | 27,904,069 | rs42459283 | A | G | aAc/aGc | p.Asn84Ser/c.251A>G | ENSBTAG00000047020 | ENSBTAT000000063948 |
| 29 | 28,303,483 | rs109058114 | T | C | aAc/aGc | p.Asn161Ser/c.482A>G | ENSBTAG00000038182 | ENSBTAT000000052524 |
| 29 | 28,732,222 | rs42177913 | A | G | gTc/gCc | p.Val298Ala/c.893T>C | ROBO4 | ENSBTAT000000005698 |
| 29 | 29,433,038 | rs41650995 | A | G | gTt/gCt | p.Val53Ala/c.158T>C | ACRV1 | ENSBTAT000000047491 |
| 29 | 43,599,412 | rs42188874 | A | G | cTg/cCg | p.Leu218Pro/c.653T>C | RASGRP2 | ENSBTAT000000001368 |
| 29 | 43,753,213 | rs109133044 | T | G | aAt/aCt | p.Asn344Thr/c.1031A>C | ATG2A | ENSBTAT000000009283 |
| 29 | 44,634,280 | rs42187382 | G | A | Gga/Aga | p.Gly23Arg/c.67G>A | SNX32 | ENSBTAT000000053283 |
| 29 | 44,647,736 | rs42187426 | A | G | Atc/Gtc | p.Ile256Val/c.766A>G | MUS81 | ENSBTAT000000053203 |
| 29 | 44,976,428 | rs209861184 | A | G | atA/atG | p.Ile113Met/c.339A>G | RAB1B | ENSBTAT000000064628 |
| 29 | 45,388,361 | rs42197402 | C | T | Gaa/Aaa | p.Glu838Lys/c.2512G>A | SPTBN2 | ENSBTAT000000007787 |
| 29 | 46,081,220 | rs42188167 | T | G | agT/agG | p.Ser123Arg/c.369T>G | ENSBTAG00000038054 | ENSBTAT000000056618 |
| 29 | 48,988,657 | rs42191587 | A | G | tTg/tCg | p.Leu147Ser/c.440T>C | ENSBTAG00000000776 | ENSBTAT000000001031 |
| 058431 | 38,670 | . | A | G | gTg/gCg | p.Val118Ala/c.353T>C | TMEM18 | ENSBTAT000000029309 |
| MT | 4,537 | rs110211386 | G | A | aGc/aAc | p.Ser91Asn/c.272G>A | ND2 | ENSBTAT000000060548 |
| MT | 5,718 | rs109334123 | G | A | aGc/aAc | p.Ser11Asn/c.32G>A | COX1 | ENSBTAT000000060569 |
| MT | 5,754 | rs110197092 | A | G | gAt/gGt | p.Asp23Gly/c.68A>G | COX1 | ENSBTAT000000060569 |
| MT | 5,853 | rs81184152 | C | T | gCa/gTa | p.Ala56Val/c.167C>T | COX1 | ENSBTAT000000060569 |
| X | 3,537,157 | rs42199006 | C | G | Cac/Gac | p.His89Asp/c.265C>G | ENSBTAG00000047757 | ENSBTAT000000066204 |
| X | 14,280,063 | rs209729762 | G | A | Ggg/Agg | p.Gly60Arg/c.178G>A | RBMX2 | ENSBTAT000000019649 |
| X | 14,280,091 | rs211461315 | G | C | cGg/cCg | p.Arg69Pro/c.206G>C | RBMX2 | ENSBTAT000000019649 |
| X | 14,280,156 | rs208214483 | G | A | Gtt/Att | p.Val91Ile/c.271G>A | RBMX2 | ENSBTAT000000019649 |
| X | 14,280,172 | rs210909133 | A | G | aAt/aGt | p.Asn96Ser/c.287A>G | RBMX2 | ENSBTAT000000019649 |
| X | 14,282,446 | rs384575317 | A | G | Aaa/Gaa | p.Lys165Glu/c.493A>G | RBMX2 | ENSBTAT000000019649 |
| X | 14,282,500 | rs211364380 | C | T | Cag/Tag | p.Gln183*/c.547C>T | RBMX2 | ENSBTAT000000019649 |
| X | 14,314,496 | rs207545829 | C | G | aGt/aCt | p.Ser4042Thr/c.12125G>C | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,322,900 | rs380052227 | G | A | aCc/aTc | p.Thr1848Ile/c.5543C>T | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,324,467 | rs383860350 | C | T | Gat/Aat | p.Asp1326Asn/c.3976G>A | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,324,938 | rs380612108 | G | T | Cat/Aat | p.His1183Asn/c.3547C>A | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,326,581 | rs210927069 | G | A | tCt/tTt | p.Ser635Phe/c.1904C>T | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,362,463 | rs43200261 | G | A | Cgt/Tgt | p.Arg281Cys/c.841C>T | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,365,645 | rs43209786 | C | T | gGc/gAc | p.Gly96Asp/c.287G>A | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,365,660 | rs110187729 | T | C | cAg/cGg | p.Gln91Arg/c.272A>G | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 14,367,549 | rs211403688 | T | C | Agt/Ggt | p.Ser73Gly/c.217A>G | ENSBTAG00000010463 | ENSBTAT000000013812 |
| X | 18,837,160 | rs211581301 | C | T | gGa/gAa | p.Gly131Glu/c.392G>A | ENSBTAG00000046047 | ENSBTAT000000065493 |
| X | 23,650,933 | rs379906801 | T | A | Acg/Tcg | p.Thr63Ser/c.187A>T | CXHXorf66 | ENSBTAT000000063340 |
| X | 29,091,608 | rs135967396 | C | T | Cat/Tat | p.His62Tyr/c.184C>T | MGC148328 | ENSBTAT000000054670 |
| X | 31,791,354 | rs136124109 | T | A | ttT/ttA | p.Phe408Leu/c.1224T>A | AFF2 | ENSBTAT000000061034 |
| X | 39,193,025 | rs210285972 | C | A | aGa/aTa | p.Arg59Ile/c.176G>T | ENSBTAG00000022807 | ENSBTAT000000025764 |
| X | 50,876,903 | rs211689565 | T | C | cAg/cGg | p.Gln342Arg/c.1025A>G | SRPX2 | ENSBTAT000000053743 |
| X | 50,952,417 | rs133584450 | C | T | Gcc/Acc | p.Ala235Thr/c.703G>A | TNMD | ENSBTAT000000028045 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| X | 56,116,881 | rs208551491 | G | A | Cct/Tct | p.Pro515Ser/c.1543C>T | ENSBTAG00000038449 | ENSBTAT00000030459 |
| X | 56,507,444 | . | A | G | cAa/cGa | p.Gln21Arg/c.62A>G | ENSBTAG00000032787 | ENSBTAT00000030458 |
| X | 58,504,253 | rs378278903 | G | A | Gtt/Att | p.Val47Ile/c.139G>A | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 58,504,368 | rs381257423 | A | G | cAt/cGt | p.His85Arg/c.254A>G | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 58,504,416 | rs382801496 | A | G | cAt/cGt | p.His101Arg/c.302A>G | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 58,504,452 | rs378659504 | G | A | aGc/aAc | p.Ser113Asn/c.338G>A | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 58,505,135 | rs444284055 | T | C | Tca/Cca | p.Ser341Pro/c.1021T>C | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 58,505,257 | rs478858743 | A | C | Aac/Cac | p.Asn381His/c.1141A>C | ENSBTAG00000040363 | ENSBTAT00000055136 |
| X | 68,141,906 | rs443225734 | A | G | aAg/aGg | p.Lys248Arg/c.743A>G | ENSBTAG00000006252 | ENSBTAT00000008205 |
| X | 84,071,708 | rs434026494 | C | T | tCg/tTg | p.Ser341Leu/c.1022C>T | ENSBTAG00000048245 | ENSBTAT00000063316 |
| X | 89,908,020 | rs446746200 | C | G | aGc/aCc | p.Ser220Thr/c.659G>C | ENSBTAG00000047411 | ENSBTAT00000064378 |
| X | 89,908,501 | rs41665091 | C | A | Gta/Tta | p.Val60Leu/c.178G>T | ENSBTAG00000047411 | ENSBTAT00000064378 |
| X | 96,043,070 | rs109657212 | G | A | Cgc/Tgc | p.Arg1432Cys/c.4294C>T | SMCX | ENSBTAT00000019893 |
| X | 96,265,816 | rs135431223 | A | G | cAc/cGc | p.His207Arg/c.620A>G | RIBC1 | ENSBTAT00000023625 |
| X | 108,280,085 | rs384059400 | G | C | aGt/aCt | p.Ser792Thr/c.2375G>C | MED14 | ENSBTAT00000015654 |
| X | 123,604,576 | rs208619435 | T | C | Act/Gct | p.Thr304Ala/c.910A>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,604,806 | rs476334614 | T | C | gAt/gGt | p.Asp227Gly/c.680A>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,605,072 | rs384840357 | G | C | aaC/aaG | p.Asn138Lys/c.414C>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,605,138 | rs382065763 | C | A | ttG/tTt | p.Leu116Phe/c.348G>T | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 124,200,488 | rs378508270 | A | G | aTa/aCa | p.Ile329Thr/c.986T>C | ENSBTAG00000038876 | ENSBTAT00000056942 |
| X | 124,200,515 | rs381151096 | C | T | aGg/aAg | p.Arg320Lys/c.959G>A | ENSBTAG00000038876 | ENSBTAT00000056942 |
| X | 126,149,209 | rs135258231 | C | T | aGa/aAa | p.Arg720Lys/c.2159G>A | ZFX | ENSBTAT00000010165 |
| X | 126,152,331 | rs137584372 | C | T | Gtg/Atg | p.Val288Met/c.862G>A | ZFX | ENSBTAT00000010165 |
| X | 126,164,343 | rs42309882 | C | A | gaG/gaT | p.Glu197Asp/c.591G>T | ZFX | ENSBTAT00000010165 |
| X | 126,164,870 | rs385936931 | C | T | Gct/Act | p.Ala22Thr/c.64G>A | ZFX | ENSBTAT00000010165 |
| X | 127,361,310 | rs210143643 | T | C | cAa/cGa | p.Gln589Arg/c.1766A>G | DDX53 | ENSBTAT00000065115 |
| X | 130,065,416 | rs109923914 | A | G | Atg/Gtg | p.Met59Val/c.175A>G | HSP90AB1 | ENSBTAT00000063700 |
| X | 131,772,933 | rs133299196 | T | G | aaT/aaG | p.Asn363Lys/c.1089T>G | PHKA2 | ENSBTAT00000020422 |
| X | 137,215,931 | rs450288269 | A | G | aTg/aCg | p.Met293Thr/c.878T>C | ENSBTAG00000032833 | ENSBTAT00000053697 |
| X | 139,028,092 | rs42206609 | A | G | Atc/Gtc | p.Ile280Val/c.838A>G | ARSE | ENSBTAT00000050377 |
| X | 142,861,287 | rs134971387 | A | G | aTc/aCc | p.Ile563Thr/c.1688T>C | WWC3 | ENSBTAT00000018367 |
| X | 143,414,403 | rs137706463 | A | T | gTg/gAg | p.Val905Glu/c.2714T>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,415 | rs133956309 | C | T | cGa/cAa | p.Arg901Gln/c.2702G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,418 | rs135219090 | C | T | gGg/gAg | p.Gly900Glu/c.2699G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,483 | rs109832412 | C | T | atG/atA | p.Met878Ile/c.2634G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,637 | rs137366551 | A | G | aTa/aCa | p.Ile827Thr/c.2480T>C | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,680 | rs133043545 | T | C | Agg/Ggg | p.Arg813Gly/c.2437A>G | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,751 | rs137132643 | C | T | cGa/cAa | p.Arg789Gln/c.2366G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,416,278 | rs210568809 | G | A | cCg/cTg | p.Pro478Leu/c.1433C>T | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,416,387 | rs208682645 | G | C | Cag/Gag | p.Gln442Glu/c.1324C>G | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,451,547 | rs381313132 | T | C | Agt/Ggt | p.Ser1229Gly/c.3685A>G | ENSBTAG00000035438 | ENSBTAT00000065773 |
| X | 146,098,917 | rs208099974 | C | T | tCc/tTc | p.Ser224Phe/c.671C>T | PNPLA4 | ENSBTAT00000021067 |
| X | 146,098,944 | rs110814398 | T | C | tTg/tCg | p.Leu233Ser/c.698T>C | PNPLA4 | ENSBTAT00000021067 |

Supplementary File 2. The complete list of YAN-specific nsSNPs

| Chr | Position | ID | REF | ALT | Codon | Amino acid change | Gene | Transcript_ID |
|-----|-------------|-------------|-----|-----|---------|---------------------------|--------------------|--------------------|
| 1 | 117,534,960 | rs42435748 | C | A | aCg/aAg | p.Thr975Lys/c.2924C>A | IGSF10 | ENSBTAT00000002263 |
| 1 | 138,508,913 | rs134200010 | A | G | Atc/Gtc | p.Ile174Val/c.520A>G | KCNH8 | ENSBTAT00000017003 |
| 1 | 150,064,440 | rs210566526 | T | C | Tcc/Ccc | p.Ser241Pro/c.721T>C | ENSBTAG00000023384 | ENSBTAT00000031838 |
| 1 | 152,403,659 | rs209263012 | G | T | aaC/aaA | p.Asn210Lys/c.630C>A | ERG | ENSBTAT00000014608 |
| 2 | 528,264 | rs42362249 | T | C | Atg/Gtg | p.Met517Val/c.1549A>G | OCA2 | ENSBTAT00000012974 |
| 2 | 10,623,117 | rs136608302 | C | A | Gca/Tca | p.Ala2929Ser/c.8785G>T | FSIP2 | ENSBTAT00000013129 |
| 2 | 18,329,673 | rs383480213 | G | T | atG/atT | p.Met34334Ile/c.103002G>T | TTN | ENSBTAT00000061449 |
| 2 | 28,017,098 | rs43302275 | G | A | Gaa/Aaa | p.Glu207Lys/c.619G>A | STK39 | ENSBTAT00000030845 |
| 2 | 62,407,285 | rs41637228 | A | G | aAc/aGc | p.Asn583Ser/c.1748A>G | ZRANB3 | ENSBTAT00000038374 |
| 2 | 122,147,876 | rs110075922 | A | G | aTa/aCa | p.Ile272Thr/c.815T>C | IQCC | ENSBTAT00000043275 |
| 2 | 131,426,367 | rs133256338 | C | T | Gcc/Acc | p.Ala236Thr/c.706G>A | CELA3B | ENSBTAT00000017401 |
| 2 | 133,291,746 | rs109073882 | A | G | gAt/gGt | p.Asp21Gly/c.62A>G | PLA2G2A | ENSBTAT00000007570 |
| 2 | 133,292,151 | rs110494619 | A | G | aAa/aGa | p.Lys72Arg/c.215A>G | PLA2G2A | ENSBTAT00000007570 |
| 2 | 133,294,953 | rs108954429 | A | C | aAg/aCg | p.Lys128Thr/c.383A>C | PLA2G2A | ENSBTAT00000007570 |
| 3 | 11,995,423 | rs210996599 | C | T | Ggg/Agg | p.Gly202Arg/c.604G>A | CD1A | ENSBTAT00000009739 |
| 3 | 11,995,528 | rs478231727 | G | A | Caa/Taa | p.Gln167*/c.499C>T | CD1A | ENSBTAT00000009739 |
| 3 | 11,995,626 | rs209949144 | A | G | gTc/gCc | p.Val134Ala/c.401T>C | CD1A | ENSBTAT00000009739 |
| 3 | 11,995,674 | rs110065214 | G | C | cCc/cGc | p.Pro118Arg/c.353C>G | CD1A | ENSBTAT00000009739 |
| 3 | 11,996,378 | rs133164776 | A | T | aTg/aAg | p.Met89Lys/c.266T>A | CD1A | ENSBTAT00000009739 |
| 3 | 11,996,538 | rs132748411 | C | T | Gaa/Aaa | p.Glu36Lys/c.106G>A | CD1A | ENSBTAT00000009739 |
| 3 | 19,532,074 | rs110213506 | C | A | cCc/cAc | p.Pro224His/c.671C>A | PI4KB | ENSBTAT00000009627 |
| 3 | 19,811,302 | rs108958479 | T | C | Tat/Cat | p.Tyr4His/c.10T>C | FAM63A | ENSBTAT00000033792 |
| 3 | 20,191,884 | rs137735321 | A | G | tTg/tCg | p.Leu483Ser/c.1448T>C | ADAMTSL4 | ENSBTAT00000004686 |
| 3 | 49,636,018 | rs109664115 | A | G | Aag/Gag | p.Lys1037Glu/c.3109A>G | ABCA4 | ENSBTAT00000023982 |
| 3 | 57,338,598 | rs137346362 | T | C | Atc/Gtc | p.Ile85Val/c.253A>G | ENSBTAG00000012502 | ENSBTAT00000016590 |
| 3 | 60,357,762 | rs42447624 | G | A | aGt/aAt | p.Ser19Asn/c.56G>A | TTLL7 | ENSBTAT00000004304 |
| 3 | 80,092,003 | rs43349286 | T | C | cAg/cGg | p.Gln733Arg/c.2198A>G | OB-R | ENSBTAT00000007764 |
| 3 | 83,945,819 | rs134555912 | C | T | cGt/cAt | p.Arg193His/c.578G>A | ENSBTAG00000045912 | ENSBTAT00000063864 |
| 3 | 83,946,277 | rs136522437 | C | T | Gct/Act | p.Ala76Thr/c.226G>A | ENSBTAG00000045912 | ENSBTAT00000063864 |
| 3 | 83,946,433 | rs133823736 | C | T | Gca/Aca | p.Ala24Thr/c.70G>A | ENSBTAG00000045912 | ENSBTAT00000063864 |
| 3 | 93,374,459 | rs110908011 | A | G | Aga/Gga | p.Arg13Gly/c.37A>G | ENSBTAG00000039540 | ENSBTAT00000057350 |
| 3 | 95,583,153 | rs210402514 | A | C | gaA/gaC | p.Glu363Asp/c.1089A>C | TTC39A | ENSBTAT00000003183 |
| 3 | 99,926,046 | rs457292542 | A | T | Aag/Tag | p.Lys388*/c.1162A>T | CYP4A22 | ENSBTAT00000017936 |
| 3 | 101,048,567 | rs133241821 | G | C | tGt/tCt | p.Cys266Ser/c.797G>C | ENSBTAG00000008810 | ENSBTAT00000011603 |
| 3 | 106,629,521 | rs42791314 | T | C | Tgc/Cgc | p.Cys179Arg/c.535T>C | CLN1 | ENSBTAT00000017780 |
| 3 | 107,265,060 | rs110739846 | A | G | tTt/tCt | p.Phe4978Ser/c.14933T>C | MACF1 | ENSBTAT00000033270 |
| 3 | 107,296,746 | rs43362173 | C | G | Gag/Cag | p.Glu3336Gln/c.10006G>C | MACF1 | ENSBTAT00000033270 |
| 3 | 107,317,601 | rs43362189 | T | C | Ata/Gta | p.Ile1155Val/c.3463A>G | MACF1 | ENSBTAT00000033270 |
| 3 | 113,167,424 | rs109242899 | A | G | cAa/cGa | p.Gln805Arg/c.2414A>G | GIGYF2 | ENSBTAT00000018720 |
| 3 | 120,081,052 | rs42992059 | C | T | gCc/gTc | p.Ala305Val/c.914C>T | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 3 | 120,081,058 | rs42992058 | G | A | cGg/cAg | p.Arg307Gln/c.920G>A | ENSBTAG00000038082 | ENSBTAT00000054210 |
| 4 | 32,617,906 | rs211621113 | C | T | Gta/Ata | p.Val402Ile/c.1204G>A | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,617,911 | rs136447340 | T | A | gAg/gTg | p.Glu400Val/c.1199A>T | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,617,935 | rs42556440 | G | C | tCg/tGg | p.Ser392Trp/c.1175C>G | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,618,193 | rs42556449 | A | G | aTa/aCa | p.Ile376Thr/c.1127T>C | ENSBTAG00000015666 | ENSBTAT00000047541 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|-----------------------|--------------------|--------------------|
| 4 | 32,623,675 | rs42557056 | T | C | Att/Gtt | p.Ile316Val/c.946A>G | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 32,627,839 | rs42557089 | G | A | aCt/aTt | p.Thr238Ile/c.713C>T | ENSBTAG00000015666 | ENSBTAT00000047541 |
| 4 | 33,050,302 | rs42556059 | A | G | Att/Gtt | p.Ile336Val/c.1006A>G | ABCB1 | ENSBTAT00000020806 |
| 4 | 69,736,307 | rs110738602 | A | G | Aat/Gat | p.Asn296Asp/c.886A>G | SKAP2 | ENSBTAT00000046037 |
| 4 | 72,836,984 | rs133448500 | C | A | atG/atT | p.Met189Ile/c.567G>T | STEAP4 | ENSBTAT00000030838 |
| 4 | 73,610,448 | rs43408404 | G | A | aCa/aTa | p.Thr289Ile/c.866C>T | ENSBTAG00000015800 | ENSBTAT00000020986 |
| 4 | 73,610,710 | rs211272083 | T | A | Act/Tct | p.Thr207Ser/c.619A>T | ENSBTAG00000015800 | ENSBTAT00000020986 |
| 4 | 99,712,896 | rs110448204 | T | C | Ttc/Ctc | p.Phe84Leu/c.250T>C | TMEM140 | ENSBTAT0000002060 |
| 4 | 106,456,070 | rs43415012 | G | T | cGc/cTc | p.Arg49Leu/c.146G>T | ENSBTAG00000048016 | ENSBTAT00000065196 |
| 4 | 106,459,729 | rs134858851 | C | T | Ccc/Tcc | p.Pro3Ser/c.7C>T | TRB@ | ENSBTAT00000017687 |
| 4 | 106,459,760 | rs110617776 | T | A | cTc/cAc | p.Leu13His/c.38T>A | TRB@ | ENSBTAT00000017687 |
| 4 | 106,467,536 | rs441071383 | C | G | aCa/aGa | p.Thr49Arg/c.146C>G | ENSBTAG00000047072 | ENSBTAT00000065923 |
| 4 | 106,473,049 | rs137653638 | T | C | Tat/Cat | p.Tyr20His/c.58T>C | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,473,092 | rs207903776 | A | C | aAg/aCg | p.Lys34Thr/c.101A>C | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,473,136 | rs42994317 | G | A | Gac/Aac | p.Asp49Asn/c.145G>A | ENSBTAG00000046164 | ENSBTAT00000065554 |
| 4 | 106,474,538 | rs209282304 | G | A | Gac/Aac | p.Asp49Asn/c.145G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,544 | rs210907277 | G | A | Gtg/Atg | p.Val51Met/c.151G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,614 | rs209865929 | T | C | aTg/aCg | p.Met74Thr/c.221T>C | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,474,615 | rs210572761 | G | A | atG/atA | p.Met74Ile/c.222G>A | ENSBTAG00000039956 | ENSBTAT00000052434 |
| 4 | 106,500,248 | rs137521883 | T | C | gTc/gCc | p.Val57Ala/c.170T>C | ENSBTAG00000047657 | ENSBTAT00000054585 |
| 4 | 106,502,197 | rs137676988 | A | G | cAc/cGc | p.His102Arg/c.305A>G | ENSBTAG00000047922 | ENSBTAT00000064293 |
| 4 | 106,523,525 | rs43419601 | C | G | Ccc/Gcc | p.Pro56Ala/c.166C>G | ENSBTAG00000038690 | ENSBTAT00000053610 |
| 4 | 106,550,120 | rs136117939 | C | A | Cgc/Agc | p.Arg92Ser/c.274C>A | ENSBTAG00000040261 | ENSBTAT00000050415 |
| 4 | 114,085,087 | rs42881402 | C | G | Caa/Gaa | p.Gln107Glu/c.319C>G | ENSBTAG00000008550 | ENSBTAT00000043789 |
| 4 | 114,492,757 | rs43416275 | G | A | gGt/gAt | p.Gly245Asp/c.734G>A | AGAP3 | ENSBTAT00000033398 |
| 5 | 5,815,048 | rs42361823 | A | C | tTt/tGt | p.Phe124Cys/c.371T>G | BBS10 | ENSBTAT00000057299 |
| 5 | 25,408,481 | rs136487958 | T | C | Aaa/Gaa | p.Lys136Glu/c.406A>G | ENSBTAG00000023670 | ENSBTAT00000032405 |
| 5 | 32,708,704 | rs43432375 | T | C | gTg/gCg | p.Val527Ala/c.1580T>C | RAPGEF3 | ENSBTAT00000008976 |
| 5 | 44,448,143 | rs210236065 | C | A | aCa/aAa | p.Thr130Lys/c.389C>A | ENSBTAG00000000198 | ENSBTAT00000000231 |
| 5 | 75,736,554 | rs43435956 | T | C | Tct/Cct | p.Ser89Pro/c.265T>C | CSF2RB | ENSBTAT00000011947 |
| 5 | 99,778,962 | rs477133421 | T | C | Atg/Gtg | p.Met90Val/c.268A>G | NKG2A | ENSBTAT00000018811 |
| 5 | 102,414,585 | rs208650795 | T | C | aTg/aCg | p.Met765Thr/c.2294T>C | ENSBTAG00000039817 | ENSBTAT00000055624 |
| 5 | 103,145,920 | rs207551815 | T | C | Aag/Gag | p.Lys206Glu/c.616A>G | ENSBTAG00000039470 | ENSBTAT00000028127 |
| 5 | 103,387,982 | rs208933027 | A | G | aTg/aCg | p.Met977Thr/c.2930T>C | CD163L1 | ENSBTAT00000052415 |
| 6 | 32,766 | rs43136285 | A | G | aTa/aCa | p.Ile158Thr/c.473T>C | ENSBTAG00000040324 | ENSBTAT00000055066 |
| 6 | 26,934,819 | rs109157548 | A | C | Tcc/Gcc | p.Ser310Ala/c.928T>G | METAP1 | ENSBTAT00000021303 |
| 6 | 32,225,787 | rs137093945 | C | T | gCg/gTg | p.Ala16Val/c.47C>T | ENSBTAG00000046473 | ENSBTAT00000063405 |
| 6 | 36,147,683 | rs109886302 | C | A | Gtt/Ttt | p.Val846Phe/c.2536G>T | MMRN1 | ENSBTAT00000047683 |
| 6 | 58,606,973 | rs135828075 | T | C | aAc/aGc | p.Asn142Ser/c.425A>G | RELL1 | ENSBTAT00000005668 |
| 6 | 104,319,282 | rs43483745 | T | C | cTg/cCg | p.Leu444Pro/c.1331T>C | DMP1 | ENSBTAT00000025468 |
| 6 | 104,422,369 | rs43489250 | T | C | Tct/Cct | p.Ser218Pro/c.652T>C | ENSBTAG00000006508 | ENSBTAT00000008532 |
| 6 | 117,856,742 | rs211666591 | A | G | Tgg/Cgg | p.Trp19Arg/c.55T>C | ENSBTAG00000019584 | ENSBTAT00000026090 |
| 6 | 117,856,783 | rs135418570 | C | G | aGc/aCc | p.Ser5Thr/c.14G>C | ENSBTAG00000019584 | ENSBTAT00000026090 |
| 7 | 4,570,185 | rs208777049 | C | T | Cgg/Tgg | p.Arg224Trp/c.670C>T | FKBP8 | ENSBTAT00000021634 |
| 7 | 4,875,781 | rs43196997 | G | C | cGc/cCc | p.Arg35Pro/c.104G>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,877,804 | rs41922298 | A | C | gAg/gCg | p.Glu565Ala/c.1694A>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 4,877,816 | rs41922297 | T | C | tTg/tCg | p.Leu569Ser/c.1706T>C | KIAA1683 | ENSBTAT00000000218 |
| 7 | 5,602,912 | rs43497544 | T | C | Tgc/Cgc | p.Cys197Arg/c.589T>C | ENSBTAG00000025767 | ENSBTAT00000047511 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 7 | 9,714,452 | rs42893540 | A | G | gAa/gGa | p.Glu17Gly/c.50A>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,714,453 | rs137131016 | A | T | gaA/gaT | p.Glu17Asp/c.51A>T | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,714,867 | rs42893535 | T | G | tgT/tgG | p.Cys155Trp/c.465T>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,166 | rs42900925 | T | C | tTc/tCc | p.Phe255Ser/c.764T>C | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,223 | rs42900924 | C | T | cCa/cTa | p.Pro274Leu/c.821C>T | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 9,715,258 | rs42900923 | A | G | Atg/Gtg | p.Met286Val/c.856A>G | ENSBTAG00000046423 | ENSBTAT00000063607 |
| 7 | 20,836,494 | rs383685203 | G | C | gaG/gaC | p.Glu583Asp/c.1749G>C | PLIN4 | ENSBTAT00000020833 |
| 7 | 40,692,591 | rs43505050 | C | T | gGt/gAt | p.Gly77Asp/c.230G>A | COL23A1 | ENSBTAT00000017548 |
| 7 | 41,445,422 | rs134159339 | G | A | Cgg/Tgg | p.Arg92Trp/c.274C>T | ENSBTAG00000046424 | ENSBTAT00000064254 |
| 7 | 51,022,457 | rs210354016 | C | A | aGa/aTa | p.Arg449Ile/c.1346G>T | FAM13B | ENSBTAT00000063540 |
| 7 | 51,131,500 | rs109709477 | T | C | Tcc/Ccc | p.Ser345Pro/c.1033T>C | WNT8A | ENSBTAT00000035270 |
| 7 | 52,228,903 | rs136131104 | C | T | Cgt/Tgt | p.Arg102Cys/c.304C>T | ENSBTAG00000006756 | ENSBTAT00000057156 |
| 7 | 53,250,424 | rs211122811 | G | C | Gta/Cta | p.Val696Leu/c.2086G>C | SLC4A9 | ENSBTAT00000029024 |
| 7 | 70,708,956 | rs211450429 | G | A | Cca/Tca | p.Pro212Ser/c.634C>T | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,708,997 | rs211168618 | C | T | aGg/aAg | p.Arg198Lys/c.593G>A | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,012 | rs384167318 | A | G | aTc/aCc | p.Ile193Thr/c.578T>C | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,021 | rs451083000 | A | G | aTg/aCg | p.Met190Thr/c.569T>C | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,033 | rs467990423 | G | A | aCt/aTt | p.Thr186Ile/c.557C>T | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 7 | 70,709,124 | rs473671451 | C | T | Gct/Act | p.Ala156Thr/c.466G>A | ENSBTAG00000036102 | ENSBTAT00000065153 |
| 8 | 1,558,331 | rs109923857 | C | T | gCg/gTg | p.Ala2Val/c.5C>T | ENSBTAG00000035293 | ENSBTAT00000049801 |
| 8 | 7,161,026 | rs136752022 | A | C | Aaa/Caa | p.Lys216Gln/c.646A>C | ENSBTAG00000039873 | ENSBTAT00000053102 |
| 8 | 22,608,277 | rs134550089 | C | T | Gtg/Atg | p.Val169Met/c.505G>A | IFNT | ENSBTAT00000054734 |
| 8 | 22,608,336 | rs447721347 | C | T | gGc/gAc | p.Gly149Asp/c.446G>A | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,690 | rs209324924 | G | A | Cac/Tac | p.His92Tyr/c.274C>T | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,702 | rs133621844 | A | G | Ttc/Ctc | p.Phe88Leu/c.262T>C | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,879 | rs208435116 | T | C | Aac/Gac | p.Asn29Asp/c.85A>G | IFNT | ENSBTAT00000054734 |
| 8 | 22,633,915 | rs209484018 | T | C | Agc/Ggc | p.Ser17Gly/c.49A>G | IFNT | ENSBTAT00000054734 |
| 8 | 23,073,258 | rs133468994 | C | T | gCc/gTc | p.Ala2Val/c.5C>T | IFNAH | ENSBTAT00000034453 |
| 8 | 60,562,323 | rs208906786 | C | T | cGc/cAc | p.Arg238His/c.713G>A | ENSBTAG00000032668 | ENSBTAT00000052230 |
| 8 | 64,322,470 | rs209452896 | C | A | Cgt/Agt | p.Arg63Ser/c.187C>A | GALNT12 | ENSBTAT00000011895 |
| 8 | 82,308,696 | rs42248404 | A | C | aAc/aCc | p.Asn1159Thr/c.3476A>C | DAPK1 | ENSBTAT00000000982 |
| 8 | 112,485,089 | rs209578275 | A | G | Acg/Gcg | p.Thr1854Ala/c.5560A>G | CNTRL | ENSBTAT00000061592 |
| 9 | 703,681 | rs43583477 | T | C | tTg/tCg | p.Leu1092Ser/c.3275T>C | PHF3 | ENSBTAT00000025476 |
| 9 | 712,768 | rs43583494 | A | G | Act/Gct | p.Thr1468Ala/c.4402A>G | PHF3 | ENSBTAT00000025476 |
| 9 | 712,778 | rs43583493 | C | T | aCg/aTg | p.Thr1471Met/c.4412C>T | PHF3 | ENSBTAT00000025476 |
| 9 | 19,327,747 | rs132850699 | C | T | Ggc/Agc | p.Gly602Ser/c.1804G>A | LCA5 | ENSBTAT00000061609 |
| 9 | 33,840,470 | rs211523549 | G | A | Gtc/Atc | p.Val503Ile/c.1507G>A | ROS1 | ENSBTAT00000065858 |
| 9 | 34,687,630 | rs43595268 | A | G | aTg/aCg | p.Met231Thr/c.692T>C | FAM26F | ENSBTAT00000038044 |
| 9 | 41,378,011 | rs454180059 | C | G | Ggt/Cgt | p.Gly179Arg/c.535G>C | ENSBTAG00000047024 | ENSBTAT00000064270 |
| 9 | 57,516,987 | rs444956031 | T | A | aaT/aaA | p.Asn278Lys/c.834T>A | ENSBTAG00000003743 | ENSBTAT00000004870 |
| 9 | 57,517,130 | rs209817791 | C | A | aCa/aAa | p.Thr326Lys/c.977C>A | ENSBTAG00000003743 | ENSBTAT00000004870 |
| 9 | 61,240,110 | rs43601234 | C | A | aGt/aTt | p.Ser251Ile/c.752G>T | GJA10 | ENSBTAT00000015039 |
| 9 | 61,240,432 | rs43601233 | C | T | Gtc/Atc | p.Val144Ile/c.430G>A | GJA10 | ENSBTAT00000015039 |
| 9 | 68,430,923 | rs133416021 | T | C | aTg/aCg | p.Met1039Thr/c.3116T>C | LAMA2 | ENSBTAT00000061257 |
| 9 | 71,587,971 | rs211571832 | T | C | Tgt/Cgt | p.Cys32Arg/c.94T>C | ENSBTAG00000039058 | ENSBTAT00000053010 |
| 9 | 71,588,841 | rs43066078 | G | A | Gta/Ata | p.Val322Ile/c.964G>A | ENSBTAG00000039058 | ENSBTAT00000053010 |
| 9 | 71,588,907 | rs43066082 | C | T | Caa/Taa | p.Gln344*/c.1030C>T | ENSBTAG00000039058 | ENSBTAT00000053010 |
| 9 | 71,629,244 | rs133620617 | G | C | aaC/aaG | p.Asn232Lys/c.696C>G | ENSBTAG00000026548 | ENSBTAT00000037774 |

| | | | | | | | | |
|----|-------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 9 | 71,629,363 | rs136139765 | C | G | Gta/Cta | p.Val193Leu/c.577G>C | ENSBTAG00000026548 | ENSBTAT00000037774 |
| 9 | 74,542,497 | rs137279701 | C | A | aGa/aTa | p.Arg27Ile/c.80G>T | AHI1 | ENSBTAT00000023877 |
| 9 | 88,573,857 | rs133615483 | C | T | gCc/gTc | p.Ala11Val/c.32C>T | IYD | ENSBTAT00000021191 |
| 9 | 93,261,413 | rs109651398 | T | C | aTg/aCg | p.Met55Thr/c.164T>C | CLDN20 | ENSBTAT00000063680 |
| 9 | 98,064,110 | rs133586190 | T | G | Att/Ctt | p.Ile17Leu/c.49A>C | PLG | ENSBTAT00000001674 |
| 9 | 105,084,709 | rs109887321 | C | G | Ggg/Cgg | p.Gly225Arg/c.673G>C | PHF10 | ENSBTAT00000005130 |
| 10 | 10,075,216 | rs109897842 | A | G | Act/Gct | p.Thr95Ala/c.283A>G | BHMT2 | ENSBTAT00000048928 |
| 10 | 26,226,949 | rs43623326 | C | G | gaG/gaC | p.Glu137Asp/c.411G>C | ENSBTAG00000025664 | ENSBTAT00000036230 |
| 10 | 27,153,978 | rs137600340 | T | C | aTt/aCt | p.Ile154Thr/c.461T>C | ENSBTAG00000039416 | ENSBTAT00000052198 |
| 10 | 27,490,341 | rs42815212 | A | G | aTt/aCt | p.Ile280Thr/c.839T>C | OR4K14 | ENSBTAT00000006329 |
| 10 | 27,490,402 | rs42815211 | T | C | Atg/Gtg | p.Met260Val/c.778A>G | OR4K14 | ENSBTAT00000006329 |
| 10 | 27,491,022 | rs42815205 | A | G | cTc/cCc | p.Leu53Pro/c.158T>C | OR4K14 | ENSBTAT00000006329 |
| 10 | 45,442,703 | rs43625877 | T | C | Act/Gct | p.Thr1111Ala/c.3331A>G | ZNF609 | ENSBTAT00000020995 |
| 10 | 54,113,663 | rs384140961 | T | C | cAt/cGt | p.His87Arg/c.260A>G | TEX9 | ENSBTAT00000044543 |
| 10 | 62,873,859 | rs110243606 | T | C | Att/Gtt | p.Ile300Val/c.898A>G | SEMA6D | ENSBTAT00000022349 |
| 10 | 71,040,292 | rs110740827 | A | T | agA/agT | p.Arg1425Ser/c.4275A>T | KIAA0586 | ENSBTAT00000008528 |
| 10 | 76,604,426 | rs109463332 | A | G | cAc/cGc | p.His4588Arg/c.13763A>G | SYNE2 | ENSBTAT00000029285 |
| 10 | 102,147,403 | rs207640524 | A | T | cTc/cAc | p.Leu122His/c.365T>A | FOXN3 | ENSBTAT00000065076 |
| 11 | 13,018,347 | rs209802563 | G | A | gCg/gTg | p.Ala707Val/c.2120C>T | DYSF | ENSBTAT00000033154 |
| 11 | 47,829,531 | rs109919675 | A | G | aTg/aCg | p.Met153Thr/c.458T>C | SMYD1 | ENSBTAT00000028141 |
| 11 | 49,096,891 | rs43684310 | T | C | cAg/cGg | p.Gln18Arg/c.53A>G | ENSBTAG00000047816 | ENSBTAT00000021088 |
| 11 | 72,100,159 | rs210343062 | C | A | aGg/aTg | p.Arg925Met/c.2774G>T | C2orf16 | ENSBTAT00000065671 |
| 11 | 73,208,603 | rs109389324 | C | A | Ctc/Atc | p.Leu1032Ile/c.3094C>A | GPR113 | ENSBTAT00000044022 |
| 11 | 74,567,885 | rs134150948 | T | C | cAa/cGa | p.Gln199Arg/c.596A>G | NCOA1 | ENSBTAT00000064008 |
| 11 | 78,511,514 | rs110210885 | G | A | cCc/cTc | p.Pro279Leu/c.836C>T | ENSBTAG00000016270 | ENSBTAT00000021642 |
| 11 | 86,082,377 | rs137642654 | T | G | cAt/cCt | p.His409Pro/c.1226A>C | LPIN1 | ENSBTAT00000043424 |
| 11 | 86,959,759 | rs109134158 | A | G | Atc/Gtc | p.Ile119Val/c.355A>G | NOL10 | ENSBTAT00000003521 |
| 11 | 104,396,778 | rs110079197 | G | A | Gca/Aca | p.Ala829Thr/c.2485G>A | ADAMTS13 | ENSBTAT00000020085 |
| 12 | 19,142,613 | rs109085996 | G | A | aGc/aAc | p.Ser537Asn/c.1610G>A | SETDB2 | ENSBTAT00000009641 |
| 12 | 19,142,767 | rs110055733 | T | G | caT/caG | p.His588Gln/c.1764T>G | SETDB2 | ENSBTAT00000009641 |
| 12 | 21,792,909 | rs109619330 | G | A | aGa/aAa | p.Arg405Lys/c.1214G>A | ENSBTAG00000011654 | ENSBTAT00000035777 |
| 12 | 72,108,623 | rs136802062 | T | C | Tac/Cac | p.Tyr538His/c.1612T>C | ENSBTAG00000045751 | ENSBTAT00000035486 |
| 13 | 10,979,892 | rs211132945 | G | A | cGc/cAc | p.Arg1147His/c.3440G>A | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,990,667 | rs208707189 | G | A | aGg/aAg | p.Arg1302Lys/c.3905G>A | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 10,992,654 | rs207490831 | T | G | Tcc/Gcc | p.Ser1374Ala/c.4120T>G | ENSBTAG00000023169 | ENSBTAT00000050711 |
| 13 | 11,176,608 | rs42886290 | A | C | Aaa/Caa | p.Lys302Gln/c.904A>C | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,176,635 | rs42886289 | C | G | Cag/Gag | p.Gln311Glu/c.931C>G | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,176,672 | rs445139748 | T | C | cTg/cCg | p.Leu323Pro/c.968T>C | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,177,453 | rs42886273 | C | G | Cat/Gat | p.His374Asp/c.1120C>G | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 11,178,926 | rs109412166 | C | T | aCg/aTg | p.Thr458Met/c.1373C>T | ENSBTAG00000004354 | ENSBTAT00000011189 |
| 13 | 17,745,758 | rs43096969 | A | G | cAg/cGg | p.Gln103Arg/c.308A>G | ENSBTAG00000036222 | ENSBTAT00000050712 |
| 13 | 17,800,427 | rs132870911 | A | C | gAa/gCa | p.Glu247Ala/c.740A>C | ENSBTAG00000017012 | ENSBTAT00000053112 |
| 13 | 22,967,429 | rs209281070 | A | G | gTt/gCt | p.Val616Ala/c.1847T>C | SKIDA1 | ENSBTAT00000061347 |
| 13 | 37,841,586 | rs41685757 | G | T | caG/caT | p.Gln68His/c.204G>T | PCSK2 | ENSBTAT00000052049 |
| 13 | 43,340,888 | rs41690976 | A | G | tTc/tCc | p.Phe1434Ser/c.4301T>C | FAM208B | ENSBTAT00000046340 |
| 13 | 51,951,303 | rs41692197 | T | C | gTg/gCg | p.Val526Ala/c.1577T>C | SIGLEC1 | ENSBTAT00000017523 |
| 13 | 54,573,695 | rs41692849 | T | C | aTg/aCg | p.Met48Thr/c.143T>C | GMEB2 | ENSBTAT00000019648 |
| 13 | 57,655,586 | rs208891549 | A | G | aTg/aCg | p.Met1559Thr/c.4676T>C | ZNF831 | ENSBTAT00000015842 |

| | | | | | | | | |
|----|------------|-------------|---|-----|---------|------------------------|--------------------|--------------------|
| 13 | 57,862,027 | rs379767794 | T | A | aaT/aaA | p.Asn113Lys/c.339T>A | SLMO2 | ENSBTAT00000005773 |
| 13 | 70,538,840 | rs109202029 | A | C | gaT/gaG | p.Asp213Glu/c.639T>G | ZHX3 | ENSBTAT00000023393 |
| 13 | 74,079,069 | rs41712252 | T | C | Acg/Gcg | p.Thr180Ala/c.538A>G | TOMM34 | ENSBTAT00000004220 |
| 13 | 74,944,637 | rs43024358 | G | A | Cgg/Tgg | p.Arg97Trp/c.289C>T | PTI | ENSBTAT00000023042 |
| 13 | 75,942,271 | rs41710053 | T | C | Tgt/Cgt | p.Cys458Arg/c.1372T>C | ENSBTAG00000009675 | ENSBTAT00000065334 |
| 13 | 80,093,619 | rs110875282 | G | C | gaC/gaG | p.Asp351Glu/c.1053C>G | NFATC2 | ENSBTAT00000024318 |
| 13 | 82,402,452 | rs109071715 | G | A | Gcc/Acc | p.Ala99Thr/c.295G>A | PFDN4 | ENSBTAT00000011605 |
| 14 | 2,330,528 | rs109569063 | A | G | gAc/gGc | p.Asp449Gly/c.1346A>G | NAPRT1 | ENSBTAT00000019496 |
| 14 | 2,358,500 | rs109407779 | T | G | Tcc/Gcc | p.Ser374Ala/c.1120T>G | ZC3H3 | ENSBTAT00000028621 |
| 14 | 4,235,307 | rs109952887 | T | C | aTt/aCt | p.Ile95Thr/c.284T>C | TRAPPC9 | ENSBTAT00000037373 |
| 14 | 25,154,132 | rs43151427 | C | T | Ggg/Agg | p.Gly313Arg/c.937G>A | SDR16C6 | ENSBTAT00000052250 |
| 14 | 25,175,575 | rs110359276 | T | C | atA/atG | p.Ile79Met/c.237A>G | SDR16C6 | ENSBTAT00000052250 |
| 14 | 33,607,557 | rs42842018 | C | T | cGc/cAc | p.Arg186His/c.557G>A | CPA6 | ENSBTAT00000061366 |
| 14 | 62,859,104 | rs110636475 | T | C | Aag/Gag | p.Lys80Glu/c.238A>G | RIMS2 | ENSBTAT00000060962 |
| 14 | 77,386,748 | rs109173725 | T | G | Ttt/Gtt | p.Phe347Val/c.1039T>G | ENSBTAG00000048317 | ENSBTAT00000065964 |
| 14 | 79,525,629 | rs444520816 | C | A | Ccc/Acc | p.Pro130Thr/c.388C>A | CA1 | ENSBTAT00000045723 |
| 14 | 79,580,589 | rs134324448 | T | A | Tgt/Agt | p.Cys229Ser/c.685T>A | ENSBTAG00000036116 | ENSBTAT00000031225 |
| 15 | 8,222,672 | rs42676011 | T | C | Tgg/Cgg | p.Trp304Arg/c.910T>C | PGR | ENSBTAT00000010545 |
| 15 | 44,996,902 | rs109007860 | T | G | Tcc/Gcc | p.Ser79Ala/c.235T>G | RIC3 | ENSBTAT00000006392 |
| 15 | 45,498,311 | rs109401533 | C | T | tCt/tTt | p.Ser212Phe/c.635C>T | ENSBTAG00000026826 | ENSBTAT00000013417 |
| 15 | 45,559,449 | rs110106990 | G | T | Cca/Aca | p.Pro10Thr/c.28C>A | ENSBTAG00000047850 | ENSBTAT00000064976 |
| 15 | 46,603,256 | rs110381723 | C | T | Cct/Tct | p.Pro19Ser/c.55C>T | ENSBTAG00000037603 | ENSBTAT00000052569 |
| 15 | 46,624,389 | rs110987354 | G | A | Gtc/Atc | p.Val13Ile/c.37G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,488 | rs109121972 | C | T | Ctc/Ttc | p.Leu46Phe/c.136C>T | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,617 | rs447041657 | G | A | Gag/Aag | p.Glu89Lys/c.265G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,687 | rs208532383 | G | A | gGc/gAc | p.Gly112Asp/c.335G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,734 | rs108955631 | C | A | Cat/Aat | p.His128Asn/c.382C>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,826 | rs109130187 | A | G | atA/atG | p.Ile158Met/c.474A>G | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,624,992 | rs109895924 | G | A | Gtc/Atc | p.Val214Ile/c.640G>A | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,625,221 | rs443900297 | A | G | tAt/tGt | p.Tyr290Cys/c.869A>G | ENSBTAG00000038031 | ENSBTAT00000053108 |
| 15 | 46,719,926 | rs445121109 | C | T | aGa/aAa | p.Arg303Lys/c.908G>A | ENSBTAG00000021147 | ENSBTAT00000028185 |
| 15 | 46,732,116 | rs210824250 | T | C | Tcc/Ccc | p.Ser264Pro/c.790T>C | OR2AG1 | ENSBTAT00000064813 |
| 15 | 46,732,146 | rs209575001 | G | A | Gtc/Atc | p.Val274Ile/c.820G>A | OR2AG1 | ENSBTAT00000064813 |
| 15 | 46,852,624 | rs380392199 | A | T | tAt/tTt | p.Tyr124Phe/c.371A>T | ENSBTAG00000004443 | ENSBTAT00000005825 |
| 15 | 46,854,641 | rs208736258 | A | T | agA/agT | p.Arg136Ser/c.408A>T | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,855,377 | rs110041446 | T | C | Tct/Cct | p.Ser382Pro/c.1144T>C | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,855,572 | rs109514757 | T | C | Tgt/Cgt | p.Cys447Arg/c.1339T>C | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,855,831 | rs110968599 | C | T | gCt/gTt | p.Ala522Val/c.1565C>T | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,855,975 | rs209396668 | A | G | aAg/aGg | p.Lys570Arg/c.1709A>G | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,858,343 | rs210174861 | T | G | gaT/gaG | p.Asp1359Glu/c.4077T>G | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 46,858,381 | rs133443773 | A | G,T | aAa/aGa | p.Lys1372Arg/c.4115A>G | ENSBTAG00000037937 | ENSBTAT00000055625 |
| 15 | 47,439,101 | rs43016031 | T | C | tTa/tCa | p.Leu43Ser/c.128T>C | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,439,160 | rs43016032 | C | G | Cag/Gag | p.Gln63Glu/c.187C>G | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,439,458 | rs43016037 | T | C | aTc/aCc | p.Ile162Thr/c.485T>C | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,439,907 | rs43016051 | T | A | Ttt/Att | p.Phe310Ile/c.928T>A | OR56B4 | ENSBTAT00000064434 |
| 15 | 47,448,126 | rs41771204 | A | G | cAc/cGc | p.His414Arg/c.1241A>G | FAM160A2 | ENSBTAT00000027334 |
| 15 | 48,429,448 | rs380317836 | T | G | Agt/Cgt | p.Ser365Arg/c.1093A>C | TRIM5 | ENSBTAT00000005971 |
| 15 | 48,430,200 | rs209750435 | A | G | gTt/gCt | p.Val280Ala/c.839T>C | TRIM5 | ENSBTAT00000005971 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 15 | 48,436,739 | rs209504468 | G | C | gCt/gGt | p.Ala127Gly/c.380C>G | TRIM5 | ENSBTAT0000005971 |
| 15 | 48,659,432 | rs41767920 | T | C | Tgt/Cgt | p.Cys172Arg/c.514T>C | ENSBTAG00000046489 | ENSBTAT00000064789 |
| 15 | 49,528,056 | rs42923029 | C | T | Cgc/Tgc | p.Arg143Cys/c.427C>T | ENSBTAG00000038899 | ENSBTAT00000052925 |
| 15 | 49,528,517 | rs42923018 | G | T | atG/atT | p.Met296Ile/c.888G>T | ENSBTAG00000038899 | ENSBTAT00000052925 |
| 15 | 49,681,938 | rs383697644 | G | A | cCt/cTt | p.Pro92Leu/c.275C>T | ENSBTAG00000014853 | ENSBTAT00000019780 |
| 15 | 79,874,377 | rs42746615 | A | G | Tgc/Cgc | p.Cys137Arg/c.409T>C | ENSBTAG00000014594 | ENSBTAT00000057312 |
| 15 | 80,842,722 | rs137683840 | A | G | cAc/cGc | p.His122Arg/c.365A>G | ENSBTAG00000035031 | ENSBTAT00000028631 |
| 15 | 83,472,947 | rs41788155 | C | T | Gag/Aag | p.Glu190Lys/c.568G>A | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 15 | 83,477,833 | rs41787690 | A | G | Ttt/Ctt | p.Phe122Leu/c.364T>C | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 15 | 83,477,857 | rs41787689 | C | T | Gta/Ata | p.Val114Ile/c.340G>A | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 15 | 83,481,880 | . | G | A | aCc/aTc | p.Thr30Ile/c.89C>T | ENSBTAG00000012540 | ENSBTAT00000038874 |
| 16 | 1,738,062 | rs42022909 | G | T | aaC/aaA | p.Asn232Lys/c.696C>A | ETNK2 | ENSBTAT00000024637 |
| 16 | 1,776,926 | rs42022871 | G | A | gCg/gTg | p.Ala26Val/c.77C>T | KISS1 | ENSBTAT00000028248 |
| 16 | 26,810,995 | rs109913603 | A | G | Att/Gtt | p.Ile605Val/c.1813A>G | MIA3 | ENSBTAT00000025055 |
| 16 | 30,490,348 | rs457463931 | T | C | Aag/Gag | p.Lys1Glu/c.1A>G | ITPKB | ENSBTAT00000025755 |
| 16 | 37,849,828 | rs109597764 | A | G | aAt/aGt | p.Asn50Ser/c.149A>G | BLZF1 | ENSBTAT0000003484 |
| 16 | 53,067,319 | rs207900508 | T | C | Aag/Gag | p.Lys115Glu/c.343A>G | TMEM82 | ENSBTAT00000064858 |
| 16 | 63,557,827 | rs110614075 | A | G | aAg/aGg | p.Lys996Arg/c.2987A>G | KIAA1614 | ENSBTAT00000008215 |
| 16 | 77,909,017 | rs42811153 | A | G | cAg/cGg | p.Gln786Arg/c.2357A>G | ENSBTAG00000038171 | ENSBTAT00000000078 |
| 16 | 77,943,440 | rs110954010 | A | G | aTa/aCa | p.Ile2856Thr/c.8567T>C | ASPM | ENSBTAT00000010340 |
| 16 | 77,944,914 | rs109449991 | C | G | Gag/Cag | p.Glu2365Gln/c.7093G>C | ASPM | ENSBTAT00000010340 |
| 17 | 30,228,864 | rs381209772 | G | T | aCc/aAc | p.Thr815Asn/c.2444C>A | HSPA4L | ENSBTAT00000020838 |
| 17 | 45,162,113 | rs136174173 | G | A | Gtc/Atc | p.Val128Ile/c.382G>A | ZNF10 | ENSBTAT00000056931 |
| 17 | 55,054,337 | rs110085274 | G | A | aGg/aAg | p.Arg224Lys/c.671G>A | ENSBTAG00000047904 | ENSBTAT00000065393 |
| 17 | 72,395,510 | rs110562281 | C | A | gaC/gaA | p.Asp374Glu/c.1122C>A | SFI1 | ENSBTAT00000011845 |
| 17 | 72,416,368 | rs110696250 | G | C | Gag/Cag | p.Glu736Gln/c.2206G>C | SFI1 | ENSBTAT00000011845 |
| 17 | 72,482,173 | rs133770451 | A | G | aTg/aCg | p.Met1293Thr/c.3878T>C | PRR14L | ENSBTAT00000011858 |
| 17 | 73,442,633 | rs41854708 | T | C | Acc/Gcc | p.Thr234Ala/c.700A>G | ENSBTAG00000046900 | ENSBTAT00000063999 |
| 18 | 40,267,972 | rs42674900 | G | A | cGt/cAt | p.Arg3226His/c.9677G>A | HYDIN | ENSBTAT00000005218 |
| 18 | 52,667,712 | rs137315779 | A | G | gTg/gCg | p.Val366Ala/c.1097T>C | CEACAM20 | ENSBTAT00000014658 |
| 18 | 57,998,139 | rs210044089 | C | T | Cgg/Tgg | p.Arg53Trp/c.157C>T | ENSBTAG00000019227 | ENSBTAT00000026431 |
| 18 | 60,070,095 | rs135056031 | T | C | cAg/cGg | p.Gln781Arg/c.2342A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,070,420 | rs133670857 | C | T | Gct/Act | p.Ala673Thr/c.2017G>A | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,165 | rs447583392 | G | A | Cct/Tct | p.Pro429Ser/c.1285C>T | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,185 | rs208933449 | T | C | aAa/aGa | p.Lys422Arg/c.1265A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,198 | rs382374202 | T | C | Aga/Gga | p.Arg418Gly/c.1252A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,282 | rs207642753 | T | C | Act/Gct | p.Thr390Ala/c.1168A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,071,299 | rs132952535 | T | C | aAt/aGt | p.Asn384Ser/c.1151A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,031 | rs43024479 | T | C | Aaa/Gaa | p.Lys138Glu/c.412A>G | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,788 | rs43024497 | G | A | Caa/Taa | p.Gln116*/c.346C>T | ZNF845 | ENSBTAT00000028697 |
| 18 | 60,074,802 | rs43024498 | A | G | gTt/gCt | p.Val111Ala/c.332T>C | ZNF845 | ENSBTAT00000028697 |
| 18 | 61,208,010 | rs207890454 | A | G | gTc/gCc | p.Val425Ala/c.1274T>C | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 61,208,899 | rs132724528 | A | G | aTt/aCt | p.Ile270Thr/c.809T>C | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 61,208,944 | rs137426723 | C | T | cGa/cAa | p.Arg255Gln/c.764G>A | ENSBTAG00000040392 | ENSBTAT00000010394 |
| 18 | 63,049,767 | rs135446511 | G | C | gCg/gGg | p.Ala123Gly/c.368C>G | ENSBTAG00000026080 | ENSBTAT00000036984 |
| 18 | 63,760,823 | rs435401323 | G | A | tCg/tTg | p.Ser156Leu/c.467C>T | ENSBTAG00000046087 | ENSBTAT00000056913 |
| 18 | 65,048,379 | rs41892907 | A | T | Act/Tct | p.Thr91Ser/c.271A>T | ZNF134 | ENSBTAT00000006170 |
| 19 | 8,089,799 | rs382047915 | C | A | Ccc/Acc | p.Pro53Thr/c.157C>A | ENSBTAG00000046559 | ENSBTAT00000064794 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|-------------------------|--------------------|--------------------|
| 19 | 9,676,673 | rs109649580 | T | C | tAc/tGc | p.Tyr823Cys/c.2468A>G | MTMR4 | ENSBTAT00000030189 |
| 19 | 14,640,978 | rs111002312 | G | T | Cat/Aat | p.His66Asn/c.196C>A | ENSBTAG00000039504 | ENSBTAT00000048097 |
| 19 | 18,401,661 | rs42727272 | A | G | aAa/aGa | p.Lys12Arg/c.35A>G | C19H17orf42 | ENSBTAT00000024467 |
| 19 | 22,652,502 | rs110509854 | T | G | Tca/Gca | p.Ser280Ala/c.838T>G | GLOD4 | ENSBTAT00000025501 |
| 19 | 23,806,402 | rs137665756 | A | C | Tta/Gta | p.Leu916Val/c.2746T>G | SMG6 | ENSBTAT00000000333 |
| 19 | 24,711,670 | rs109444163 | G | A | tCt/tTt | p.Ser215Phe/c.644C>T | ENSBTAG00000038059 | ENSBTAT00000053598 |
| 19 | 25,255,424 | rs41905209 | A | G | cTa/cCa | p.Leu1972Pro/c.5915T>C | ZZEF1 | ENSBTAT00000061398 |
| 19 | 41,708,828 | rs43723001 | G | T | Caa/Aaa | p.Gln433Lys/c.1297C>A | KRT12 | ENSBTAT00000020622 |
| 19 | 50,631,870 | rs109545022 | T | C | aTg/aCg | p.Met161Thr/c.482T>C | WDR45L | ENSBTAT00000004811 |
| 19 | 51,147,022 | rs211259962 | C | A | cCc/cAc | p.Pro70His/c.209C>A | SECTM1 | ENSBTAT00000057166 |
| 19 | 51,563,265 | rs209740286 | A | G | Atc/Gtc | p.Ile286Val/c.856A>G | MYADML2 | ENSBTAT00000000049 |
| 19 | 53,958,697 | rs209690918 | A | C | Tcc/Gcc | p.Ser450Ala/c.1348T>G | ENGASE | ENSBTAT00000008236 |
| 19 | 54,639,181 | rs109065101 | G | C | caC/caG | p.His293Gln/c.879C>G | TMC8 | ENSBTAT00000025384 |
| 19 | 55,904,948 | rs132803163 | C | T | cGg/cAg | p.Arg71Gln/c.212G>A | ENSBTAG00000039119 | ENSBTAT00000034708 |
| 19 | 57,726,622 | rs134864960 | A | C | gTg/gGg | p.Val916Gly/c.2747T>G | KIF19 | ENSBTAT00000006057 |
| 19 | 57,728,200 | rs110238399 | A | G | tTc/tCc | p.Phe724Ser/c.2171T>C | KIF19 | ENSBTAT00000006057 |
| 19 | 57,728,555 | rs135047844 | G | A | cCg/cTg | p.Pro687Leu/c.2060C>T | KIF19 | ENSBTAT00000006057 |
| 20 | 3,795,064 | rs110596148 | C | T | Ggg/Agg | p.Gly385Arg/c.1153G>A | STK10 | ENSBTAT00000023199 |
| 21 | 6,102,031 | rs43757179 | T | G | Agt/Cgt | p.Ser122Arg/c.364A>C | ENSBTAG00000048048 | ENSBTAT00000065970 |
| 21 | 20,346,137 | rs135844154 | C | T | gCt/gTt | p.Ala164Val/c.491C>T | ENSBTAG00000012326 | ENSBTAT00000016351 |
| 21 | 20,346,139 | rs133102945 | G | C | Gtg/Ctg | p.Val165Leu/c.493G>C | ENSBTAG00000012326 | ENSBTAT00000016351 |
| 21 | 20,357,652 | rs109860250 | G | T | gaC/gaA | p.Asp158Glu/c.474C>A | ENSBTAG00000038494 | ENSBTAT00000052975 |
| 21 | 20,357,798 | rs110220087 | C | T | Gta/Ata | p.Val110Ile/c.328G>A | ENSBTAG00000038494 | ENSBTAT00000052975 |
| 21 | 34,649,608 | rs109373230 | T | C | Tgg/Cgg | p.Trp443Arg/c.1327T>C | SEMA7A | ENSBTAT00000015210 |
| 21 | 35,207,757 | rs110772105 | C | A | tgG/tgT | p.Trp50Cys/c.150G>T | ENSBTAG00000010828 | ENSBTAT00000014364 |
| 21 | 35,207,770 | rs109485745 | C | T | gGt/gAt | p.Gly46Asp/c.137G>A | ENSBTAG00000010828 | ENSBTAT00000014364 |
| 21 | 35,213,330 | rs132636886 | C | G | Gag/Cag | p.Glu16Gln/c.46G>C | ENSBTAG00000013055 | ENSBTAT00000017359 |
| 21 | 61,631,142 | rs137067628 | T | G | agA/agC | p.Arg673Ser/c.2019A>C | CLMN | ENSBTAT00000026533 |
| 21 | 69,465,667 | rs43005016 | A | G | Acc/Gcc | p.Thr520Ala/c.1558A>G | TNFAIP2 | ENSBTAT00000050485 |
| 22 | 15,246,226 | rs208440455 | T | G | Atc/Ctc | p.Ile128Leu/c.382A>C | LYZL4 | ENSBTAT00000024756 |
| 22 | 19,647,573 | rs41858117 | A | C | Tcg/Gcg | p.Ser59Ala/c.175T>G | GRM7 | ENSBTAT00000017342 |
| 22 | 44,297,497 | rs42691583 | G | A | Gca/Aca | p.Ala1484Thr/c.4450G>A | ENSBTAG00000020802 | ENSBTAT00000013592 |
| 22 | 48,314,004 | rs110946558 | T | C | Aca/Gca | p.Thr327Ala/c.979A>G | PRKCD | ENSBTAT00000011487 |
| 22 | 49,073,708 | rs208206440 | C | G | gGt/gCt | p.Gly1578Ala/c.4733G>C | DNAH1 | ENSBTAT00000066095 |
| 22 | 50,351,313 | rs210898565 | T | G | Acc/Ccc | p.Thr209Pro/c.625A>C | HEMK1 | ENSBTAT00000005382 |
| 22 | 50,351,330 | rs208149156 | G | T | gCc/gAc | p.Ala203Asp/c.608C>A | HEMK1 | ENSBTAT00000005382 |
| 22 | 53,341,684 | rs42019570 | A | C | Atg/Ctg | p.Met265Leu/c.793A>C | PRSS50 | ENSBTAT00000055134 |
| 23 | 3,612,115 | rs109309915 | A | G | Act/Gct | p.Thr5480Ala/c.16438A>G | DST | ENSBTAT00000061451 |
| 23 | 7,219,435 | rs43705225 | C | G | Gac/Cac | p.Asp183His/c.547G>C | BOLA-DNA | ENSBTAT00000008504 |
| 23 | 7,219,659 | rs41255857 | T | C | cAc/cGc | p.His108Arg/c.323A>G | BOLA-DNA | ENSBTAT00000008504 |
| 23 | 7,431,082 | rs137676160 | C | T | atG/atA | p.Met507Ile/c.1521G>A | DAXX | ENSBTAT00000036227 |
| 23 | 7,431,084 | rs133196782 | T | C | Atg/Gtg | p.Met507Val/c.1519A>G | DAXX | ENSBTAT00000036227 |
| 23 | 7,432,512 | rs109148673 | A | C | gaT/gaG | p.Asp171Glu/c.513T>G | DAXX | ENSBTAT00000036227 |
| 23 | 7,810,489 | rs134864019 | T | C | aAc/aGc | p.Asn6Ser/c.17A>G | MNF1 | ENSBTAT00000047737 |
| 23 | 9,383,592 | rs208839216 | C | G | gaC/gaG | p.Asp235Glu/c.705C>G | FANCE | ENSBTAT00000038911 |
| 23 | 23,911,643 | rs43246754 | T | C | aAg/aGg | p.Lys3195Arg/c.9584A>G | PKHD1 | ENSBTAT00000032221 |
| 23 | 27,333,684 | rs382492082 | C | T | atG/atA | p.Met5Ile/c.15G>A | HSPA1A | ENSBTAT00000017500 |
| 23 | 27,333,685 | rs385826597 | A | G | aTg/aCg | p.Met5Thr/c.14T>C | HSPA1A | ENSBTAT00000017500 |

| | | | | | | | | |
|----|------------|-------------|---|---|---------|------------------------|--------------------|--------------------|
| 23 | 27,453,893 | rs110889596 | A | G | aAt/aGt | p.Asn200Ser/c.599A>G | BAT4 | ENSBTAT00000045541 |
| 23 | 27,725,630 | rs135940610 | C | T | tGc/tAc | p.Cys207Tyr/c.620G>A | ENSBTAG00000010166 | ENSBTAT00000013413 |
| 23 | 28,120,390 | rs109389455 | C | T | aGa/aAa | p.Arg1410Lys/c.4229G>A | MDC1 | ENSBTAT00000035900 |
| 23 | 28,355,835 | rs135506929 | T | C | Aga/Gga | p.Arg325Gly/c.973A>G | BOLA-NC | ENSBTAT00000021451 |
| 23 | 28,889,546 | rs110670022 | A | C | gaT/gaG | p.Asp194Glu/c.582T>G | ENSBTAG00000003250 | ENSBTAT00000004214 |
| 23 | 29,463,608 | rs137409029 | C | T | tCc/tTc | p.Ser276Phe/c.827C>T | ENSBTAG00000040582 | ENSBTAT00000054481 |
| 23 | 29,481,179 | rs109489261 | T | C | tTc/tCc | p.Phe217Ser/c.650T>C | ENSBTAG00000047558 | ENSBTAT00000051892 |
| 23 | 30,475,204 | rs134913274 | T | A | aAt/aTt | p.Asn195Ile/c.584A>T | ENSBTAG00000040454 | ENSBTAT00000056033 |
| 23 | 30,696,638 | rs134204444 | A | G | aAa/aGa | p.Lys228Arg/c.683A>G | ENSBTAG00000039274 | ENSBTAT00000056927 |
| 23 | 31,461,230 | rs110884109 | A | G | gTg/gCg | p.Val22Ala/c.65T>C | H2B | ENSBTAT00000045034 |
| 23 | 50,490,560 | rs109183457 | T | C | Aac/Gac | p.Asn96Asp/c.286A>G | NQO2 | ENSBTAT00000040161 |
| 23 | 50,529,819 | rs475681199 | C | T | Gaa/Aaa | p.Glu25Lys/c.73G>A | ENSBTAG00000017483 | ENSBTAT00000023242 |
| 23 | 50,614,242 | rs210780870 | G | A | Gtc/Atc | p.Val125Ile/c.373G>A | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 23 | 50,615,327 | rs208585354 | A | G | Atc/Gtc | p.Ile168Val/c.502A>G | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 23 | 50,615,354 | rs207891256 | C | G | Cag/Gag | p.Gln177Glu/c.529C>G | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 23 | 50,617,237 | rs135027114 | A | G | cAa/cGa | p.Gln288Arg/c.863A>G | ENSBTAG00000025280 | ENSBTAT00000026816 |
| 24 | 216,326 | rs207679261 | T | C | aAa/aGa | p.Lys196Arg/c.587A>G | ENSBTAG00000013809 | ENSBTAT00000026739 |
| 24 | 26,406,555 | rs110930689 | T | C | Tgg/Cgg | p.Trp94Arg/c.280T>C | DSC3 | ENSBTAT00000020274 |
| 24 | 33,626,581 | rs110927432 | T | C | Ttt/Ctt | p.Phe241Leu/c.721T>C | TMEM241 | ENSBTAT00000031064 |
| 24 | 46,313,383 | rs109578809 | T | C | Tgg/Cgg | p.Trp32Arg/c.94T>C | HAUS1 | ENSBTAT00000003262 |
| 25 | 560,467 | rs436323460 | T | G | cTa/cGa | p.Leu302Arg/c.905T>G | STUB1 | ENSBTAT00000025473 |
| 25 | 560,469 | rs432656507 | A | T | Ata/Tta | p.Ile303Leu/c.907A>T | STUB1 | ENSBTAT00000025473 |
| 25 | 14,582,913 | rs41587235 | C | A | ttG/ttT | p.Leu1271Phe/c.3813G>T | ABCC6 | ENSBTAT00000050284 |
| 25 | 28,294,181 | rs211291098 | C | T | Cgg/Tgg | p.Arg107Trp/c.319C>T | CRCP | ENSBTAT00000053944 |
| 25 | 35,105,527 | rs42074328 | G | A | aGa/aAa | p.Arg42Lys/c.125G>A | ALKBH4 | ENSBTAT00000004717 |
| 25 | 36,088,117 | rs135351842 | A | G | Aag/Gag | p.Lys330Glu/c.988A>G | ENSBTAG00000020157 | ENSBTAT00000026848 |
| 25 | 36,604,449 | rs43724448 | T | C | cAt/cGt | p.His668Arg/c.2003A>G | NYAP1 | ENSBTAT00000023195 |
| 25 | 36,659,603 | rs43724466 | T | A | Tat/Aat | p.Tyr17Asn/c.49T>A | ZCWPW1 | ENSBTAT00000001417 |
| 25 | 39,180,577 | rs109143338 | T | G | Tac/Gac | p.Tyr281Asp/c.841T>G | RNF216 | ENSBTAT00000022820 |
| 26 | 8,249,362 | rs42236914 | G | T | Ccc/Acc | p.Pro67Thr/c.199C>A | PRKG1 | ENSBTAT00000030539 |
| 26 | 20,615,740 | rs378023463 | A | C | Att/Ctt | p.Ile25Leu/c.73A>C | ABCC2 | ENSBTAT00000047274 |
| 26 | 20,670,595 | rs208313395 | T | G | tgT/tgG | p.Cys1100Trp/c.3300T>G | ABCC2 | ENSBTAT00000047274 |
| 26 | 23,694,514 | rs209230756 | A | G | Tca/Cca | p.Ser509Pro/c.1525T>C | CYP17A1 | ENSBTAT00000019061 |
| 26 | 23,694,772 | rs211334387 | C | T | Gcg/Acg | p.Ala423Thr/c.1267G>A | CYP17A1 | ENSBTAT00000019061 |
| 26 | 23,697,090 | rs210616088 | A | G | aTg/aCg | p.Met238Thr/c.713T>C | CYP17A1 | ENSBTAT00000019061 |
| 26 | 25,835,202 | rs41649598 | T | C | tAc/tGc | p.Tyr278Cys/c.833A>G | PAOX | ENSBTAT00000057083 |
| 26 | 25,836,239 | rs110818830 | A | T | cTg/cAg | p.Leu147Gln/c.440T>A | PAOX | ENSBTAT00000057083 |
| 26 | 37,860,707 | rs42098266 | T | C | aTg/aCg | p.Met116Thr/c.347T>C | KCNK18 | ENSBTAT00000020046 |
| 26 | 42,831,090 | rs41621657 | C | T | aCa/aTa | p.Thr82Ile/c.245C>T | ENSBTAG00000038684 | ENSBTAT00000054001 |
| 26 | 42,930,137 | rs110013295 | A | G | Aag/Gag | p.Lys54Glu/c.160A>G | ENSBTAG00000039755 | ENSBTAT00000066099 |
| 26 | 42,930,224 | rs110285842 | A | G | Agc/Ggc | p.Ser83Gly/c.247A>G | ENSBTAG00000039755 | ENSBTAT00000066099 |
| 26 | 50,638,138 | rs133031841 | T | C | gTg/gCg | p.Val260Ala/c.779T>C | ENSBTAG00000026185 | ENSBTAT00000037095 |
| 27 | 4,800,159 | rs132667878 | G | A | Cgt/Tgt | p.Arg124Cys/c.370C>T | ENSBTAG00000008519 | ENSBTAT00000024416 |
| 27 | 5,425,568 | rs43108924 | C | A | tGg/tTg | p.Trp42Leu/c.125G>T | ENSBTAG00000047284 | ENSBTAT00000065980 |
| 27 | 19,008,706 | rs42117836 | A | C | Aaa/Caa | p.Lys451Gln/c.1351A>C | MTMR7 | ENSBTAT00000055365 |
| 27 | 26,260,482 | rs41680913 | T | C | Atg/Gtg | p.Met262Val/c.784A>G | PURG | ENSBTAT00000052030 |
| 28 | 6,084,058 | rs43682902 | A | G | tTg/tCg | p.Leu1091Ser/c.3272T>C | PCNXL2 | ENSBTAT00000017452 |
| 28 | 8,798,180 | rs208559281 | T | C | Aca/Gca | p.Thr214Ala/c.640A>G | NID1 | ENSBTAT00000009531 |

| | | | | | | | | |
|-------|------------|-------------|---|---|---------|-----------------------|--------------------|--------------------|
| 28 | 8,798,200 | rs210307350 | A | G | tTt/tCt | p.Phe207Ser/c.620T>C | NID1 | ENSBTAT00000009531 |
| 28 | 8,798,242 | rs210815305 | A | G | tTg/tCg | p.Leu193Ser/c.578T>C | NID1 | ENSBTAT00000009531 |
| 28 | 35,700,054 | rs110467597 | A | G | Ata/Gta | p.Ile359Val/c.1075A>G | CL46 | ENSBTAT00000028716 |
| 29 | 5,748,349 | rs137442187 | T | G | agT/agG | p.Ser11Arg/c.33T>G | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,751,066 | rs208046720 | G | A | Gaa/Aaa | p.Glu253Lys/c.757G>A | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,751,070 | rs209421286 | C | T | aCg/aTg | p.Thr254Met/c.761C>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,757,552 | rs209894977 | A | T | Acc/Tcc | p.Thr364Ser/c.1090A>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 5,757,789 | rs210083106 | C | T | Ctt/Ttt | p.Leu443Phe/c.1327C>T | ENSBTAG00000038209 | ENSBTAT00000000458 |
| 29 | 9,892,100 | rs42157724 | G | A | aGt/aAt | p.Ser227Asn/c.680G>A | SYTL2 | ENSBTAT00000030378 |
| 29 | 18,090,509 | rs42714483 | T | C | Atc/Gtc | p.Ile16Val/c.46A>G | THRSP | ENSBTAT00000015490 |
| 29 | 27,150,961 | rs42179775 | A | G | Ttc/Ctc | p.Phe42Leu/c.124T>C | ENSBTAG00000022384 | ENSBTAT00000030301 |
| 29 | 29,596,363 | rs210749927 | C | T | Gtg/Atg | p.Val1Met/c.1G>A | ENSBTAG00000033377 | ENSBTAT00000047481 |
| 29 | 29,744,242 | rs42175743 | T | C | Aca/Gca | p.Thr506Ala/c.1516A>G | CDON | ENSBTAT00000012270 |
| 29 | 43,753,213 | rs109133044 | T | G | aAt/aCt | p.Asn344Thr/c.1031A>C | ATG2A | ENSBTAT00000009283 |
| 29 | 46,531,663 | rs42190879 | G | A | Gat/Aat | p.Asp527Asn/c.1579G>A | LRP5 | ENSBTAT00000007756 |
| 29 | 49,184,427 | rs132678679 | A | G | aAt/aGt | p.Asn140Ser/c.419A>G | TNFRSF10A | ENSBTAT00000054963 |
| 16011 | 6,954 | . | C | T | Ccc/Tcc | p.Pro165Ser/c.493C>T | PLCXD1 | ENSBTAT00000066297 |
| MT | 4,537 | rs110211386 | G | A | aGc/aAc | p.Ser91Asn/c.272G>A | ND2 | ENSBTAT00000060548 |
| MT | 5,718 | rs109334123 | G | A | aGc/aAc | p.Ser11Asn/c.32G>A | COX1 | ENSBTAT00000060569 |
| MT | 5,754 | rs110197092 | A | G | gAt/gGt | p.Asp23Gly/c.68A>G | COX1 | ENSBTAT00000060569 |
| MT | 5,853 | rs81184152 | C | T | gCa/gTa | p.Ala56Val/c.167C>T | COX1 | ENSBTAT00000060569 |
| MT | 7,994 | rs109369303 | G | A | atG/atA | p.Met207Ile/c.621G>A | MT-CO2 | ENSBTAT00000060549 |
| X | 11,967,545 | rs41658512 | G | A | gGg/gAg | p.Gly311Glu/c.932G>A | IRF2BP1 | ENSBTAT00000000177 |
| X | 14,280,063 | rs209729762 | G | A | Ggg/Agg | p.Gly60Arg/c.178G>A | RBMX2 | ENSBTAT00000019649 |
| X | 14,280,091 | rs211461315 | G | C | cGg/cCg | p.Arg69Pro/c.206G>C | RBMX2 | ENSBTAT00000019649 |
| X | 14,280,172 | rs210909133 | A | G | aAt/aGt | p.Asn96Ser/c.287A>G | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,500 | rs211364380 | C | T | Cag/Tag | p.Gln183*/c.547C>T | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,591 | rs209480453 | C | A | aCg/aAg | p.Thr213Lys/c.638C>A | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,594 | rs379596905 | G | C | gGa/gCa | p.Gly214Ala/c.641G>C | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,650 | rs382280146 | C | G | Cct/Gct | p.Pro233Ala/c.697C>G | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,663 | rs438965177 | T | C | aTg/aCg | p.Met237Thr/c.710T>C | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,812 | rs383854441 | C | T | Cga/Tga | p.Arg287*/c.859C>T | RBMX2 | ENSBTAT00000019649 |
| X | 14,282,962 | rs385912051 | T | C | Tat/Cat | p.Tyr337His/c.1009T>C | RBMX2 | ENSBTAT00000019649 |
| X | 14,362,463 | rs43200261 | G | A | Cgt/Tgt | p.Arg281Cys/c.841C>T | ENSBTAG00000010463 | ENSBTAT00000013812 |
| X | 14,365,645 | rs43209786 | C | T | gGc/gAc | p.Gly96Asp/c.287G>A | ENSBTAG00000010463 | ENSBTAT00000013812 |
| X | 14,365,660 | rs110187729 | T | C | cAg/cGg | p.Gln91Arg/c.272A>G | ENSBTAG00000010463 | ENSBTAT00000013812 |
| X | 14,367,549 | rs211403688 | T | C | Agt/Ggt | p.Ser73Gly/c.217A>G | ENSBTAG00000010463 | ENSBTAT00000013812 |
| X | 14,367,588 | rs110977669 | C | T | Gtt/Att | p.Val60Ile/c.178G>A | ENSBTAG00000010463 | ENSBTAT00000013812 |
| X | 18,837,160 | rs211581301 | C | T | gGa/gAa | p.Gly131Glu/c.392G>A | ENSBTAG00000046047 | ENSBTAT00000065493 |
| X | 23,650,884 | rs211672749 | T | G | aAa/aCa | p.Lys79Thr/c.236A>C | CXHXorf66 | ENSBTAT00000063340 |
| X | 23,650,933 | rs379906801 | T | A | Acg/Tcg | p.Thr63Ser/c.187A>T | CXHXorf66 | ENSBTAT00000063340 |
| X | 29,091,608 | rs135967396 | C | T | Cat/Tat | p.His62Tyr/c.184C>T | MGC148328 | ENSBTAT00000054670 |
| X | 50,719,395 | rs109317963 | A | G | cAa/cGa | p.Gln261Arg/c.782A>G | ENSBTAG00000048265 | ENSBTAT00000064195 |
| X | 50,811,372 | rs380874026 | T | A | tTt/tAt | p.Phe84Tyr/c.251T>A | ENSBTAG00000040255 | ENSBTAT00000066229 |
| X | 50,876,903 | rs211689565 | T | C | cAg/cGg | p.Gln342Arg/c.1025A>G | SRPX2 | ENSBTAT00000053743 |
| X | 56,116,881 | rs208551491 | G | A | Cct/Tct | p.Pro515Ser/c.1543C>T | ENSBTAG00000038449 | ENSBTAT00000030459 |
| X | 56,507,444 | . | A | G | cAa/cGa | p.Gln21Arg/c.62A>G | ENSBTAG00000032787 | ENSBTAT00000030458 |
| X | 68,142,022 | rs381689687 | C | T | Cgg/Tgg | p.Arg287Trp/c.859C>T | ENSBTAG00000006252 | ENSBTAT00000008205 |

| | | | | | | | | |
|---|-------------|-------------|---|---|---------|-----------------------|--------------------|--------------------|
| X | 84,071,708 | rs434026494 | C | T | tCg/tTg | p.Ser341Leu/c.1022C>T | ENSBTAG00000048245 | ENSBTAT00000063316 |
| X | 89,908,020 | rs446746200 | C | G | aGc/aCc | p.Ser220Thr/c.659G>C | ENSBTAG00000047411 | ENSBTAT00000064378 |
| X | 89,908,501 | rs41665091 | C | A | Gta/Tta | p.Val60Leu/c.178G>T | ENSBTAG00000047411 | ENSBTAT00000064378 |
| X | 94,701,460 | rs208247262 | A | G | cAg/cGg | p.Gln6Arg/c.17A>G | ENSBTAG00000047547 | ENSBTAT00000024424 |
| X | 94,701,490 | rs384124497 | G | A | cGa/cAa | p.Arg16Gln/c.47G>A | ENSBTAG00000047547 | ENSBTAT00000024424 |
| X | 94,701,678 | rs460944365 | A | G | Atc/Gtc | p.Ile79Val/c.235A>G | ENSBTAG00000047547 | ENSBTAT00000024424 |
| X | 118,801,083 | rs458707170 | C | G | cCt/cGt | p.Pro61Arg/c.182C>G | ENSBTAG00000004563 | ENSBTAT00000055351 |
| X | 123,604,576 | rs208619435 | T | C | Act/Gct | p.Thr304Ala/c.910A>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,604,806 | rs476334614 | T | C | gAt/gGt | p.Asp227Gly/c.680A>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,605,072 | rs384840357 | G | C | aaC/aaG | p.Asn138Lys/c.414C>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,605,138 | rs382065763 | C | A | ttG/ttT | p.Leu116Phe/c.348G>T | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 123,605,275 | rs209001633 | T | C | Acc/Gcc | p.Thr71Ala/c.211A>G | ENSBTAG00000047709 | ENSBTAT00000011510 |
| X | 124,199,173 | rs380122483 | G | A | tCt/tTt | p.Ser345Phe/c.1034C>T | ENSBTAG00000038876 | ENSBTAT00000056942 |
| X | 127,192,076 | rs479843617 | C | T | Cgt/Tgt | p.Arg170Cys/c.508C>T | ENSBTAG00000047581 | ENSBTAT00000009925 |
| X | 127,361,310 | rs210143643 | T | C | cAa/cGa | p.Gln589Arg/c.1766A>G | DDX53 | ENSBTAT00000065115 |
| X | 137,215,889 | rs378538260 | C | T | cGa/cAa | p.Arg307Gln/c.920G>A | ENSBTAG00000032833 | ENSBTAT00000053697 |
| X | 137,215,931 | rs450288269 | A | G | aTg/aCg | p.Met293Thr/c.878T>C | ENSBTAG00000032833 | ENSBTAT00000053697 |
| X | 143,414,403 | rs137706463 | A | T | gTg/gAg | p.Val905Glu/c.2714T>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,415 | rs133956309 | C | T | cGa/cAa | p.Arg901Gln/c.2702G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,418 | rs135219090 | C | T | gGg/gAg | p.Gly900Glu/c.2699G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,483 | rs109832412 | C | T | atG/atA | p.Met878Ile/c.2634G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,414,751 | rs137132643 | C | T | cGa/cAa | p.Arg789Gln/c.2366G>A | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,416,278 | rs210568809 | G | A | cCg/cTg | p.Pro478Leu/c.1433C>T | ENSBTAG00000002158 | ENSBTAT00000056084 |
| X | 143,416,387 | rs208682645 | G | C | Cag/Gag | p.Gln442Glu/c.1324C>G | ENSBTAG00000002158 | ENSBTAT00000056084 |

Supplementary File 3. The complete list of the Z-transformation of the pooled heterozygosity (ZHp) scores for all the overlapping sliding windows across all 29 autosomes in HAN.

| Chr | Start | End | Bin | No. SNP | ZHp | Gene List |
|-----|-----------|-----------|-----|---------|--------------|---|
| 1 | 0 | 150,000 | 1 | 1251 | 0.874118575 | ENSBTAG00000001753,ENSBTAG000000039257 |
| 1 | 75,000 | 225,000 | 2 | 888 | 0.049786532 | ENSBTAG00000001753 |
| 1 | 150,000 | 300,000 | 3 | 564 | -0.61021598 | CBX3,ENSBTAG00000001753 |
| 1 | 225,000 | 375,000 | 4 | 437 | -3.139091265 | CBX3,RCAN1 |
| 1 | 300,000 | 450,000 | 5 | 693 | -3.738893848 | KCNE1,RCAN1,ENSBTAG00000026259 |
| 1 | 375,000 | 525,000 | 6 | 876 | -2.76475332 | C21orf140,KCNE1,KCNE2,SMIM11,ENSBTAG00000026259 |
| 1 | 450,000 | 600,000 | 7 | 771 | -2.269928098 | C21orf140,KCNE2,SMIM11,ENSBTAG00000045984 |
| 1 | 525,000 | 675,000 | 8 | 588 | -2.837481057 | MRPS6,ENSBTAG00000045984 |
| 1 | 600,000 | 750,000 | 9 | 410 | -2.149728126 | MRPS6 |
| 1 | 675,000 | 825,000 | 10 | 306 | -1.13431812 | MRPS6 |
| 1 | 750,000 | 900,000 | 11 | 678 | -0.897661565 | |
| 1 | 825,000 | 975,000 | 12 | 805 | -0.392257984 | ATP5O,ITSN1 |
| 1 | 900,000 | 1,050,000 | 13 | 458 | 0.394788328 | ATP5O,ITSN1 |
| 1 | 975,000 | 1,125,000 | 14 | 493 | 0.766538508 | ITSN1 |
| 1 | 1,050,000 | 1,200,000 | 15 | 455 | 0.72688877 | CRYZL1,ITSN1 |
| 1 | 1,125,000 | 1,275,000 | 16 | 255 | 0.159487254 | CRYZL1,DONSON,GART,ITSN1,SON |
| 1 | 1,200,000 | 1,350,000 | 17 | 426 | -0.013106276 | CRYZL1,DNAJC28,DONSON,GART,SON,TMEM50B |
| 1 | 1,275,000 | 1,425,000 | 18 | 662 | 0.487829913 | DNAJC28,GART,IFNGR2,TMEM50B |
| 1 | 1,350,000 | 1,500,000 | 19 | 718 | 1.077757568 | IFNAR1,IFNGR2,TMEM50B |
| 1 | 1,425,000 | 1,575,000 | 20 | 1000 | 0.759834068 | IFNAR1,IL10RB |
| 1 | 1,500,000 | 1,650,000 | 21 | 805 | 0.544635892 | IFNAR2,IL10RB |
| 1 | 1,575,000 | 1,725,000 | 22 | 490 | -1.106398979 | HIST1H4H,IFNAR2,IL10RB |
| 1 | 1,650,000 | 1,800,000 | 23 | 647 | -0.999665501 | HIST1H4H,OLIG1 |
| 1 | 1,725,000 | 1,875,000 | 24 | 573 | 1.057734968 | OLIG1 |
| 1 | 1,800,000 | 1,950,000 | 25 | 720 | 0.299252775 | |
| 1 | 1,875,000 | 2,025,000 | 26 | 780 | 0.353081583 | |
| 1 | 1,950,000 | 2,100,000 | 27 | 485 | 0.630536146 | C21orf62,GCFC |
| 1 | 2,025,000 | 2,175,000 | 28 | 249 | -0.329157714 | C21orf62,GCFC,SYNJ1 |
| 1 | 2,100,000 | 2,250,000 | 29 | 178 | -0.774430116 | C1H21orf59,SYNJ1 |
| 1 | 2,175,000 | 2,325,000 | 30 | 425 | 0.535524408 | C1H21orf59,EVA1C,SYNJ1 |
| 1 | 2,250,000 | 2,400,000 | 31 | 752 | 0.471420255 | EVA1C,URB1 |
| 1 | 2,325,000 | 2,475,000 | 32 | 1232 | -0.096481995 | EVA1C,MRAP,URB1 |
| 1 | 2,400,000 | 2,550,000 | 33 | 1569 | 0.295329537 | MIS18A,MRAP,URB1 |
| 1 | 2,475,000 | 2,625,000 | 34 | 1399 | 0.690781589 | MIS18A,MRAP |
| 1 | 2,550,000 | 2,700,000 | 35 | 1226 | 0.655923462 | |
| 1 | 2,625,000 | 2,775,000 | 36 | 1455 | 0.618610002 | |
| 1 | 2,700,000 | 2,850,000 | 37 | 1550 | 0.601394178 | HUNK |
| 1 | 2,775,000 | 2,925,000 | 38 | 1284 | 0.686093616 | HUNK |
| 1 | 2,850,000 | 3,000,000 | 39 | 1519 | 1.030920669 | HUNK |
| 1 | 2,925,000 | 3,075,000 | 40 | 1381 | 1.055205239 | SCAF4 |
| 1 | 3,000,000 | 3,150,000 | 41 | 809 | 0.935260247 | SCAF4,SOD1 |
| 1 | 3,075,000 | 3,225,000 | 42 | 1199 | 1.045666925 | SCAF4,SOD1 |
| 1 | 3,150,000 | 3,300,000 | 43 | 1355 | 0.816329735 | |
| 1 | 3,225,000 | 3,375,000 | 44 | 1012 | 0.438745302 | |
| 1 | 3,300,000 | 3,450,000 | 45 | 1012 | -0.280410051 | |
| 1 | 3,375,000 | 3,525,000 | 46 | 995 | 0.39849034 | TIAM1 |
| 1 | 3,450,000 | 3,600,000 | 47 | 790 | -0.3294078 | TIAM1 |
| 1 | 3,525,000 | 3,675,000 | 48 | 634 | -2.12243531 | TIAM1 |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|---|
| 1 | 3,600,000 | 3,750,000 | 49 | 671 | -0.683499581 | TIAM1 |
| 1 | 3,675,000 | 3,825,000 | 50 | 813 | 0.926647396 | TIAM1 |
| 1 | 3,750,000 | 3,900,000 | 51 | 947 | 0.666775445 | |
| 1 | 3,825,000 | 3,975,000 | 52 | 939 | 0.517604728 | KRTAP11-1 |
| 1 | 3,900,000 | 4,050,000 | 53 | 975 | 0.551468931 | KRTAP11-1,KRTAP7-1 |
| 1 | 3,975,000 | 4,125,000 | 54 | 825 | 0.152857444 | KRTAP7-1,KRTAP8-1 |
| 1 | 4,050,000 | 4,200,000 | 55 | 649 | -0.220244589 | KRTAP8-1 |
| 1 | 4,125,000 | 4,275,000 | 56 | 804 | -0.297623224 | ENSBTAG00000044154 |
| 1 | 4,200,000 | 4,350,000 | 57 | 703 | -0.324799722 | ENSBTAG00000044154 |
| 1 | 4,275,000 | 4,425,000 | 58 | 704 | -1.661718517 | |
| 1 | 4,350,000 | 4,500,000 | 59 | 704 | -1.828619937 | |
| 1 | 4,425,000 | 4,575,000 | 60 | 755 | 0.259956799 | |
| 1 | 4,500,000 | 4,650,000 | 61 | 1062 | 0.013226587 | |
| 1 | 4,575,000 | 4,725,000 | 62 | 1120 | -0.410388506 | |
| 1 | 4,650,000 | 4,800,000 | 63 | 1239 | 0.067398772 | KRTAP13-1 |
| 1 | 4,725,000 | 4,875,000 | 64 | 1361 | 0.037182795 | KRTAP13-1,ENSBTAG00000037933 |
| 1 | 4,800,000 | 4,950,000 | 65 | 1317 | 0.086821625 | KRTAP27-1,ENSBTAG00000037933 |
| 1 | 4,875,000 | 5,025,000 | 66 | 1352 | 0.655386832 | KRTAP24-1,KRTAP27-1 |
| 1 | 4,950,000 | 5,100,000 | 67 | 1337 | 0.669785443 | CLDN17,CLDN8,KRTAP24-1 |
| 1 | 5,025,000 | 5,175,000 | 68 | 986 | 0.519939856 | CLDN17,CLDN8 |
| 1 | 5,100,000 | 5,250,000 | 69 | 623 | 0.742006701 | |
| 1 | 5,175,000 | 5,325,000 | 70 | 540 | 0.678361747 | |
| 1 | 5,250,000 | 5,400,000 | 71 | 883 | 0.33138816 | |
| 1 | 5,325,000 | 5,475,000 | 72 | 1219 | 0.2314277 | |
| 1 | 5,400,000 | 5,550,000 | 73 | 1176 | 0.240209214 | |
| 1 | 5,475,000 | 5,625,000 | 74 | 982 | 0.526531965 | |
| 1 | 5,550,000 | 5,700,000 | 75 | 751 | 0.008738742 | |
| 1 | 5,625,000 | 5,775,000 | 76 | 940 | 0.561165499 | GRIK1 |
| 1 | 5,700,000 | 5,850,000 | 77 | 983 | 1.013247266 | GRIK1 |
| 1 | 5,775,000 | 5,925,000 | 78 | 711 | -0.580647679 | GRIK1,ENSBTAG00000045873 |
| 1 | 5,850,000 | 6,000,000 | 79 | 994 | -0.647624757 | GRIK1,ENSBTAG00000045873 |
| 1 | 5,925,000 | 6,075,000 | 80 | 994 | -0.613568155 | |
| 1 | 6,000,000 | 6,150,000 | 81 | 816 | -0.542515022 | |
| 1 | 6,075,000 | 6,225,000 | 82 | 578 | 0.142336751 | BACH1 |
| 1 | 6,150,000 | 6,300,000 | 83 | 298 | -0.861874044 | BACH1 |
| 1 | 6,225,000 | 6,375,000 | 84 | 446 | -0.768146351 | C1H21ORF7 |
| 1 | 6,300,000 | 6,450,000 | 85 | 747 | 0.19882891 | C1H21ORF7 |
| 1 | 6,375,000 | 6,525,000 | 86 | 733 | 0.423212252 | C1H21ORF7,CCT8,RWDD2B,USP16 |
| 1 | 6,450,000 | 6,600,000 | 87 | 532 | -0.075306572 | CCT8,RNF160,RWDD2B,USP16 |
| 1 | 6,525,000 | 6,675,000 | 88 | 994 | 0.9585527 | N6AMT1,RNF160,RWDD2B,ENSBTAG00000038433 |
| 1 | 6,600,000 | 6,750,000 | 89 | 1145 | 0.994972404 | N6AMT1,RNF160,ENSBTAG00000038433 |
| 1 | 6,675,000 | 6,825,000 | 90 | 848 | 0.430393646 | |
| 1 | 6,750,000 | 6,900,000 | 91 | 1118 | 0.043806966 | |
| 1 | 6,825,000 | 6,975,000 | 92 | 1252 | 1.050649353 | |
| 1 | 6,900,000 | 7,050,000 | 93 | 1092 | 1.060307166 | |
| 1 | 6,975,000 | 7,125,000 | 94 | 884 | 0.839339712 | |
| 1 | 7,050,000 | 7,200,000 | 95 | 666 | 0.815780396 | |
| 1 | 7,125,000 | 7,275,000 | 96 | 593 | 0.597130173 | |
| 1 | 7,200,000 | 7,350,000 | 97 | 456 | 0.728162747 | |
| 1 | 7,275,000 | 7,425,000 | 98 | 428 | -1.843272437 | |
| 1 | 7,350,000 | 7,500,000 | 99 | 455 | -3.923365244 | |
| 1 | 7,425,000 | 7,575,000 | 100 | 478 | -1.703920852 | |
| 1 | 7,500,000 | 7,650,000 | 101 | 518 | -0.19596685 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 7,575,000 | 7,725,000 | 102 | 771 | -2.238834926 | |
| 1 | 7,650,000 | 7,800,000 | 103 | 802 | -2.706232047 | |
| 1 | 7,725,000 | 7,875,000 | 104 | 473 | -0.824716268 | |
| 1 | 7,800,000 | 7,950,000 | 105 | 600 | 0.552709528 | |
| 1 | 7,875,000 | 8,025,000 | 106 | 933 | 0.134482029 | |
| 1 | 7,950,000 | 8,100,000 | 107 | 1175 | -0.198086333 | |
| 1 | 8,025,000 | 8,175,000 | 108 | 1164 | -0.250105408 | |
| 1 | 8,100,000 | 8,250,000 | 109 | 962 | 0.252686443 | |
| 1 | 8,175,000 | 8,325,000 | 110 | 924 | 0.602417013 | |
| 1 | 8,250,000 | 8,400,000 | 111 | 1172 | 0.795367404 | ENSBTAG00000040155 |
| 1 | 8,325,000 | 8,475,000 | 112 | 1217 | 0.737260953 | ENSBTAG00000040155 |
| 1 | 8,400,000 | 8,550,000 | 113 | 842 | 0.378335172 | |
| 1 | 8,475,000 | 8,625,000 | 114 | 596 | 0.307209624 | |
| 1 | 8,550,000 | 8,700,000 | 115 | 507 | 0.28939917 | |
| 1 | 8,625,000 | 8,775,000 | 116 | 372 | 0.237027341 | |
| 1 | 8,700,000 | 8,850,000 | 117 | 218 | 0.175225215 | ADAMTS5 |
| 1 | 8,775,000 | 8,925,000 | 118 | 238 | 0.863033879 | ADAMTS5 |
| 1 | 8,850,000 | 9,000,000 | 119 | 512 | 0.98395754 | ADAMTS1,ADAMTS5 |
| 1 | 8,925,000 | 9,075,000 | 120 | 726 | 0.852468875 | ADAMTS1 |
| 1 | 9,000,000 | 9,150,000 | 121 | 684 | 0.7302568 | |
| 1 | 9,075,000 | 9,225,000 | 122 | 646 | 0.051460291 | |
| 1 | 9,150,000 | 9,300,000 | 123 | 659 | 0.072272215 | CYR1 |
| 1 | 9,225,000 | 9,375,000 | 124 | 548 | 1.125128791 | CYR1 |
| 1 | 9,300,000 | 9,450,000 | 125 | 759 | 0.85170616 | |
| 1 | 9,375,000 | 9,525,000 | 126 | 1254 | 0.954467835 | |
| 1 | 9,450,000 | 9,600,000 | 127 | 1479 | 1.024831741 | |
| 1 | 9,525,000 | 9,675,000 | 128 | 1353 | 0.178891749 | APP |
| 1 | 9,600,000 | 9,750,000 | 129 | 1114 | -0.712357272 | APP |
| 1 | 9,675,000 | 9,825,000 | 130 | 1118 | 0.062592578 | APP |
| 1 | 9,750,000 | 9,900,000 | 131 | 965 | 0.081321806 | APP |
| 1 | 9,825,000 | 9,975,000 | 132 | 1122 | -2.872726054 | APP |
| 1 | 9,900,000 | 10,050,000 | 133 | 992 | -2.732420422 | APP,GABPA |
| 1 | 9,975,000 | 10,125,000 | 134 | 420 | 0.903285117 | ATP5J,GABPA,JAM2 |
| 1 | 10,050,000 | 10,200,000 | 135 | 705 | 0.705650234 | ATP5J,GABPA,JAM2 |
| 1 | 10,125,000 | 10,275,000 | 136 | 736 | 0.738616787 | JAM2,MRPL39 |
| 1 | 10,200,000 | 10,350,000 | 137 | 374 | 0.813289433 | MRPL39 |
| 1 | 10,275,000 | 10,425,000 | 138 | 361 | 0.24054479 | |
| 1 | 10,350,000 | 10,500,000 | 139 | 415 | -0.658864049 | |
| 1 | 10,425,000 | 10,575,000 | 140 | 375 | -1.004213771 | |
| 1 | 10,500,000 | 10,650,000 | 141 | 603 | -1.449330487 | |
| 1 | 10,575,000 | 10,725,000 | 142 | 649 | -1.293509864 | |
| 1 | 10,650,000 | 10,800,000 | 143 | 408 | -0.123616822 | |
| 1 | 10,725,000 | 10,875,000 | 144 | 771 | 0.934795839 | |
| 1 | 10,800,000 | 10,950,000 | 145 | 993 | 1.08938916 | |
| 1 | 10,875,000 | 11,025,000 | 146 | 648 | 1.102572818 | ENSBTAG00000038900 |
| 1 | 10,950,000 | 11,100,000 | 147 | 664 | 0.462653212 | ENSBTAG00000038900 |
| 1 | 11,025,000 | 11,175,000 | 148 | 1001 | 0.853768902 | |
| 1 | 11,100,000 | 11,250,000 | 149 | 905 | 0.963121759 | |
| 1 | 11,175,000 | 11,325,000 | 150 | 964 | -0.728874438 | |
| 1 | 11,250,000 | 11,400,000 | 151 | 974 | -1.01575449 | |
| 1 | 11,325,000 | 11,475,000 | 152 | 652 | -0.987419569 | |
| 1 | 11,400,000 | 11,550,000 | 153 | 493 | -0.876648995 | |
| 1 | 11,475,000 | 11,625,000 | 154 | 511 | 0.464273877 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------|
| 1 | 11,550,000 | 11,700,000 | 155 | 905 | 0.452881373 | |
| 1 | 11,625,000 | 11,775,000 | 156 | 1162 | 0.495790772 | |
| 1 | 11,700,000 | 11,850,000 | 157 | 1204 | 0.66836007 | |
| 1 | 11,775,000 | 11,925,000 | 158 | 1163 | 0.217628567 | |
| 1 | 11,850,000 | 12,000,000 | 159 | 643 | -0.180927333 | |
| 1 | 11,925,000 | 12,075,000 | 160 | 319 | 1.073791215 | |
| 1 | 12,000,000 | 12,150,000 | 161 | 373 | 0.965101941 | |
| 1 | 12,075,000 | 12,225,000 | 162 | 439 | 0.458257153 | |
| 1 | 12,150,000 | 12,300,000 | 163 | 617 | 0.71048756 | |
| 1 | 12,225,000 | 12,375,000 | 164 | 906 | 0.916982221 | |
| 1 | 12,300,000 | 12,450,000 | 165 | 1316 | 0.706215507 | |
| 1 | 12,375,000 | 12,525,000 | 166 | 1564 | 0.445529795 | |
| 1 | 12,450,000 | 12,600,000 | 167 | 1261 | -0.054294774 | |
| 1 | 12,525,000 | 12,675,000 | 168 | 909 | -2.926583726 | |
| 1 | 12,600,000 | 12,750,000 | 169 | 1216 | -2.468777499 | |
| 1 | 12,675,000 | 12,825,000 | 170 | 1495 | -0.68931759 | |
| 1 | 12,750,000 | 12,900,000 | 171 | 1410 | -0.808260394 | |
| 1 | 12,825,000 | 12,975,000 | 172 | 1505 | -0.540976699 | |
| 1 | 12,900,000 | 13,050,000 | 173 | 1512 | -0.200221366 | |
| 1 | 12,975,000 | 13,125,000 | 174 | 1034 | -0.410757794 | |
| 1 | 13,050,000 | 13,200,000 | 175 | 927 | 0.464883955 | |
| 1 | 13,125,000 | 13,275,000 | 176 | 979 | 0.433303934 | |
| 1 | 13,200,000 | 13,350,000 | 177 | 1123 | 0.155905331 | |
| 1 | 13,275,000 | 13,425,000 | 178 | 1200 | 0.098875757 | |
| 1 | 13,350,000 | 13,500,000 | 179 | 965 | -2.558150474 | |
| 1 | 13,425,000 | 13,575,000 | 180 | 798 | -2.834091121 | |
| 1 | 13,500,000 | 13,650,000 | 181 | 885 | -0.501533775 | |
| 1 | 13,575,000 | 13,725,000 | 182 | 1330 | -1.622732115 | |
| 1 | 13,650,000 | 13,800,000 | 183 | 1817 | -1.634494353 | |
| 1 | 13,725,000 | 13,875,000 | 184 | 1872 | -0.436672689 | |
| 1 | 13,800,000 | 13,950,000 | 185 | 1550 | -0.020197065 | |
| 1 | 13,875,000 | 14,025,000 | 186 | 1510 | -0.156214997 | |
| 1 | 13,950,000 | 14,100,000 | 187 | 1603 | 0.441532038 | |
| 1 | 14,025,000 | 14,175,000 | 188 | 1629 | 1.036973757 | |
| 1 | 14,100,000 | 14,250,000 | 189 | 1531 | 1.207114727 | |
| 1 | 14,175,000 | 14,325,000 | 190 | 1393 | -0.291492494 | |
| 1 | 14,250,000 | 14,400,000 | 191 | 1066 | -3.055042898 | |
| 1 | 14,325,000 | 14,475,000 | 192 | 929 | -1.448813009 | |
| 1 | 14,400,000 | 14,550,000 | 193 | 979 | 0.379171841 | |
| 1 | 14,475,000 | 14,625,000 | 194 | 657 | -0.82968932 | |
| 1 | 14,550,000 | 14,700,000 | 195 | 707 | -1.502423989 | |
| 1 | 14,625,000 | 14,775,000 | 196 | 808 | -0.398071271 | |
| 1 | 14,700,000 | 14,850,000 | 197 | 579 | 0.784062572 | NCAM2 |
| 1 | 14,775,000 | 14,925,000 | 198 | 601 | 0.475167805 | NCAM2 |
| 1 | 14,850,000 | 15,000,000 | 199 | 1108 | -0.151012746 | NCAM2 |
| 1 | 14,925,000 | 15,075,000 | 200 | 1364 | -0.643848088 | NCAM2 |
| 1 | 15,000,000 | 15,150,000 | 201 | 1223 | -0.531577797 | NCAM2 |
| 1 | 15,075,000 | 15,225,000 | 202 | 1169 | 0.046791262 | |
| 1 | 15,150,000 | 15,300,000 | 203 | 711 | 0.355287625 | |
| 1 | 15,225,000 | 15,375,000 | 204 | 570 | 0.864478041 | |
| 1 | 15,300,000 | 15,450,000 | 205 | 811 | 0.432704817 | |
| 1 | 15,375,000 | 15,525,000 | 206 | 891 | 0.438393594 | |
| 1 | 15,450,000 | 15,600,000 | 207 | 966 | 0.546767839 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------------|
| 1 | 15,525,000 | 15,675,000 | 208 | 968 | 0.125792453 | |
| 1 | 15,600,000 | 15,750,000 | 209 | 763 | -0.497248446 | |
| 1 | 15,675,000 | 15,825,000 | 210 | 616 | 0.346362322 | |
| 1 | 15,750,000 | 15,900,000 | 211 | 682 | 0.976483048 | |
| 1 | 15,825,000 | 15,975,000 | 212 | 673 | 0.663162929 | |
| 1 | 15,900,000 | 16,050,000 | 213 | 801 | 0.733799413 | |
| 1 | 15,975,000 | 16,125,000 | 214 | 1011 | 0.777710789 | |
| 1 | 16,050,000 | 16,200,000 | 215 | 1176 | 0.825722851 | |
| 1 | 16,125,000 | 16,275,000 | 216 | 897 | 0.7770269 | |
| 1 | 16,200,000 | 16,350,000 | 217 | 643 | -0.386985252 | |
| 1 | 16,275,000 | 16,425,000 | 218 | 608 | -0.916808974 | |
| 1 | 16,350,000 | 16,500,000 | 219 | 484 | -1.880755858 | |
| 1 | 16,425,000 | 16,575,000 | 220 | 1079 | -1.470796561 | |
| 1 | 16,500,000 | 16,650,000 | 221 | 1425 | -1.266344089 | |
| 1 | 16,575,000 | 16,725,000 | 222 | 1006 | -0.884637307 | |
| 1 | 16,650,000 | 16,800,000 | 223 | 612 | 0.19361639 | |
| 1 | 16,725,000 | 16,875,000 | 224 | 449 | -0.119067203 | |
| 1 | 16,800,000 | 16,950,000 | 225 | 847 | 0.249677426 | |
| 1 | 16,875,000 | 17,025,000 | 226 | 1419 | -0.826704656 | |
| 1 | 16,950,000 | 17,100,000 | 227 | 1640 | -0.413994704 | |
| 1 | 17,025,000 | 17,175,000 | 228 | 1176 | 0.467592979 | |
| 1 | 17,100,000 | 17,250,000 | 229 | 622 | -0.062375744 | |
| 1 | 17,175,000 | 17,325,000 | 230 | 431 | -0.527884384 | |
| 1 | 17,250,000 | 17,400,000 | 231 | 710 | 0.302772863 | |
| 1 | 17,325,000 | 17,475,000 | 232 | 1020 | 0.694841676 | |
| 1 | 17,400,000 | 17,550,000 | 233 | 1129 | -0.099342058 | |
| 1 | 17,475,000 | 17,625,000 | 234 | 1286 | -0.616718217 | |
| 1 | 17,550,000 | 17,700,000 | 235 | 1201 | -0.483081277 | |
| 1 | 17,625,000 | 17,775,000 | 236 | 998 | 0.074200791 | |
| 1 | 17,700,000 | 17,850,000 | 237 | 869 | -0.045982583 | |
| 1 | 17,775,000 | 17,925,000 | 238 | 1020 | -0.892862807 | |
| 1 | 17,850,000 | 18,000,000 | 239 | 957 | -0.460191977 | |
| 1 | 17,925,000 | 18,075,000 | 240 | 905 | 0.680073143 | TMPRSS15 |
| 1 | 18,000,000 | 18,150,000 | 241 | 947 | 0.62853239 | TMPRSS15 |
| 1 | 18,075,000 | 18,225,000 | 242 | 1026 | 1.065831346 | CHODL,TMPRSS15 |
| 1 | 18,150,000 | 18,300,000 | 243 | 1291 | 1.279953392 | CHODL,TMPRSS15 |
| 1 | 18,225,000 | 18,375,000 | 244 | 1079 | 1.289767476 | CHODL |
| 1 | 18,300,000 | 18,450,000 | 245 | 594 | 0.791939147 | |
| 1 | 18,375,000 | 18,525,000 | 246 | 460 | 0.149747554 | |
| 1 | 18,450,000 | 18,600,000 | 247 | 466 | 0.607017295 | |
| 1 | 18,525,000 | 18,675,000 | 248 | 473 | 1.311526244 | |
| 1 | 18,600,000 | 18,750,000 | 249 | 442 | 1.416727277 | C1H21ORF91 |
| 1 | 18,675,000 | 18,825,000 | 250 | 688 | 1.400983943 | C1H21ORF91 |
| 1 | 18,750,000 | 18,900,000 | 251 | 1046 | 1.182321556 | |
| 1 | 18,825,000 | 18,975,000 | 252 | 930 | 0.653931816 | BTG3,CXADR,ENSBTAG00000047943 |
| 1 | 18,900,000 | 19,050,000 | 253 | 997 | -0.241425613 | BTG3,CXADR,ENSBTAG00000047943 |
| 1 | 18,975,000 | 19,125,000 | 254 | 926 | -0.085763851 | CXADR |
| 1 | 19,050,000 | 19,200,000 | 255 | 616 | 1.080774919 | |
| 1 | 19,125,000 | 19,275,000 | 256 | 647 | 0.971233188 | |
| 1 | 19,200,000 | 19,350,000 | 257 | 864 | 1.14339333 | |
| 1 | 19,275,000 | 19,425,000 | 258 | 1017 | 1.250786635 | |
| 1 | 19,350,000 | 19,500,000 | 259 | 993 | 0.976827919 | |
| 1 | 19,425,000 | 19,575,000 | 260 | 921 | 0.905906031 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 19,500,000 | 19,650,000 | 261 | 616 | 0.356109825 | |
| 1 | 19,575,000 | 19,725,000 | 262 | 392 | -2.05192664 | |
| 1 | 19,650,000 | 19,800,000 | 263 | 731 | -1.717860205 | |
| 1 | 19,725,000 | 19,875,000 | 264 | 726 | -1.272644968 | PPP1CA |
| 1 | 19,800,000 | 19,950,000 | 265 | 339 | 0.289745845 | PPP1CA |
| 1 | 19,875,000 | 20,025,000 | 266 | 605 | -0.46692415 | |
| 1 | 19,950,000 | 20,100,000 | 267 | 1002 | -0.390387186 | |
| 1 | 20,025,000 | 20,175,000 | 268 | 978 | 0.082444379 | |
| 1 | 20,100,000 | 20,250,000 | 269 | 733 | 0.301500462 | |
| 1 | 20,175,000 | 20,325,000 | 270 | 438 | 0.182173143 | |
| 1 | 20,250,000 | 20,400,000 | 271 | 332 | 0.735566363 | |
| 1 | 20,325,000 | 20,475,000 | 272 | 405 | 0.640755206 | ENSBTAG00000047183 |
| 1 | 20,400,000 | 20,550,000 | 273 | 372 | 0.424884805 | ENSBTAG00000047183 |
| 1 | 20,475,000 | 20,625,000 | 274 | 407 | -2.334809391 | |
| 1 | 20,550,000 | 20,700,000 | 275 | 530 | -2.115936563 | USP25 |
| 1 | 20,625,000 | 20,775,000 | 276 | 553 | -0.074980919 | USP25 |
| 1 | 20,700,000 | 20,850,000 | 277 | 603 | -0.899180289 | USP25 |
| 1 | 20,775,000 | 20,925,000 | 278 | 545 | -0.607184849 | USP25 |
| 1 | 20,850,000 | 21,000,000 | 279 | 446 | 0.635595674 | |
| 1 | 20,925,000 | 21,075,000 | 280 | 605 | 0.163603629 | |
| 1 | 21,000,000 | 21,150,000 | 281 | 622 | -0.976747842 | |
| 1 | 21,075,000 | 21,225,000 | 282 | 550 | -1.64355193 | |
| 1 | 21,150,000 | 21,300,000 | 283 | 656 | -0.57917364 | |
| 1 | 21,225,000 | 21,375,000 | 284 | 686 | 0.657989113 | |
| 1 | 21,300,000 | 21,450,000 | 285 | 589 | 0.255608896 | |
| 1 | 21,375,000 | 21,525,000 | 286 | 432 | -0.021175382 | |
| 1 | 21,450,000 | 21,600,000 | 287 | 334 | 0.187446934 | |
| 1 | 21,525,000 | 21,675,000 | 288 | 227 | -0.950063988 | |
| 1 | 21,600,000 | 21,750,000 | 289 | 147 | -2.520089787 | NRIP1 |
| 1 | 21,675,000 | 21,825,000 | 290 | 303 | -2.980945916 | NRIP1 |
| 1 | 21,750,000 | 21,900,000 | 291 | 607 | -0.564001565 | |
| 1 | 21,825,000 | 21,975,000 | 292 | 987 | 0.803680915 | |
| 1 | 21,900,000 | 22,050,000 | 293 | 942 | 0.444194282 | |
| 1 | 21,975,000 | 22,125,000 | 294 | 837 | -0.584718599 | SAMSN1 |
| 1 | 22,050,000 | 22,200,000 | 295 | 878 | -1.039637369 | SAMSN1 |
| 1 | 22,125,000 | 22,275,000 | 296 | 935 | -0.99184146 | SAMSN1 |
| 1 | 22,200,000 | 22,350,000 | 297 | 971 | -0.510707761 | HSPA13 |
| 1 | 22,275,000 | 22,425,000 | 298 | 873 | 0.78939069 | HSPA13 |
| 1 | 22,350,000 | 22,500,000 | 299 | 921 | 0.913758325 | LIPI,RBM11 |
| 1 | 22,425,000 | 22,575,000 | 300 | 677 | -0.915347053 | LIPI,RBM11 |
| 1 | 22,500,000 | 22,650,000 | 301 | 417 | -2.769469573 | |
| 1 | 22,575,000 | 22,725,000 | 302 | 742 | 0.001455141 | |
| 1 | 22,650,000 | 22,800,000 | 303 | 754 | 0.204918722 | |
| 1 | 22,725,000 | 22,875,000 | 304 | 705 | 0.598505741 | |
| 1 | 22,800,000 | 22,950,000 | 305 | 1044 | 0.598278979 | |
| 1 | 22,875,000 | 23,025,000 | 306 | 915 | 0.514577874 | |
| 1 | 22,950,000 | 23,100,000 | 307 | 908 | -1.190671554 | |
| 1 | 23,025,000 | 23,175,000 | 308 | 1080 | -0.740958163 | |
| 1 | 23,100,000 | 23,250,000 | 309 | 1132 | 0.447182035 | |
| 1 | 23,175,000 | 23,325,000 | 310 | 970 | -0.17314449 | |
| 1 | 23,250,000 | 23,400,000 | 311 | 769 | -0.932752684 | |
| 1 | 23,325,000 | 23,475,000 | 312 | 922 | -2.208446835 | |
| 1 | 23,400,000 | 23,550,000 | 313 | 690 | -2.544659404 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 23,475,000 | 23,625,000 | 314 | 435 | 0.095840133 | |
| 1 | 23,550,000 | 23,700,000 | 315 | 584 | 0.462571504 | |
| 1 | 23,625,000 | 23,775,000 | 316 | 561 | -0.10126982 | |
| 1 | 23,700,000 | 23,850,000 | 317 | 896 | 0.435488622 | |
| 1 | 23,775,000 | 23,925,000 | 318 | 1189 | -0.059454179 | |
| 1 | 23,850,000 | 24,000,000 | 319 | 1053 | -1.57006962 | ENSBTAG00000046755 |
| 1 | 23,925,000 | 24,075,000 | 320 | 1093 | -0.52297924 | ENSBTAG00000046755 |
| 1 | 24,000,000 | 24,150,000 | 321 | 1392 | 0.780974845 | |
| 1 | 24,075,000 | 24,225,000 | 322 | 1544 | 0.720122611 | |
| 1 | 24,150,000 | 24,300,000 | 323 | 1276 | 0.275855538 | |
| 1 | 24,225,000 | 24,375,000 | 324 | 770 | -0.149756623 | |
| 1 | 24,300,000 | 24,450,000 | 325 | 580 | 0.156685518 | ROBO2 |
| 1 | 24,375,000 | 24,525,000 | 326 | 663 | 0.69009162 | ROBO2 |
| 1 | 24,450,000 | 24,600,000 | 327 | 625 | 0.366491404 | ROBO2 |
| 1 | 24,525,000 | 24,675,000 | 328 | 793 | -0.851139492 | ROBO2 |
| 1 | 24,600,000 | 24,750,000 | 329 | 810 | -1.055371514 | |
| 1 | 24,675,000 | 24,825,000 | 330 | 903 | -0.447778579 | |
| 1 | 24,750,000 | 24,900,000 | 331 | 913 | -0.294429767 | |
| 1 | 24,825,000 | 24,975,000 | 332 | 957 | -0.571805893 | |
| 1 | 24,900,000 | 25,050,000 | 333 | 1052 | -0.414237863 | |
| 1 | 24,975,000 | 25,125,000 | 334 | 1057 | 0.746612091 | |
| 1 | 25,050,000 | 25,200,000 | 335 | 949 | 0.508088592 | |
| 1 | 25,125,000 | 25,275,000 | 336 | 889 | 0.122651487 | |
| 1 | 25,200,000 | 25,350,000 | 337 | 1146 | 0.756071563 | |
| 1 | 25,275,000 | 25,425,000 | 338 | 1079 | 0.856776727 | |
| 1 | 25,350,000 | 25,500,000 | 339 | 988 | 0.950831713 | |
| 1 | 25,425,000 | 25,575,000 | 340 | 1019 | 0.632021479 | |
| 1 | 25,500,000 | 25,650,000 | 341 | 803 | 0.097466526 | ROBO1 |
| 1 | 25,575,000 | 25,725,000 | 342 | 484 | 0.075332522 | ROBO1 |
| 1 | 25,650,000 | 25,800,000 | 343 | 434 | -0.777338399 | ROBO1 |
| 1 | 25,725,000 | 25,875,000 | 344 | 704 | -1.614345118 | ROBO1 |
| 1 | 25,800,000 | 25,950,000 | 345 | 669 | -1.454501168 | ROBO1 |
| 1 | 25,875,000 | 26,025,000 | 346 | 622 | -0.28966592 | ROBO1 |
| 1 | 25,950,000 | 26,100,000 | 347 | 867 | 0.323275572 | ROBO1 |
| 1 | 26,025,000 | 26,175,000 | 348 | 1017 | 0.564916336 | ROBO1 |
| 1 | 26,100,000 | 26,250,000 | 349 | 1045 | 0.772016493 | ROBO1 |
| 1 | 26,175,000 | 26,325,000 | 350 | 969 | 0.670183885 | ROBO1 |
| 1 | 26,250,000 | 26,400,000 | 351 | 986 | 0.55044448 | |
| 1 | 26,325,000 | 26,475,000 | 352 | 921 | -0.095583321 | |
| 1 | 26,400,000 | 26,550,000 | 353 | 643 | -0.261534793 | |
| 1 | 26,475,000 | 26,625,000 | 354 | 519 | 0.205364136 | |
| 1 | 26,550,000 | 26,700,000 | 355 | 896 | 0.414645471 | |
| 1 | 26,625,000 | 26,775,000 | 356 | 1095 | 0.295042358 | |
| 1 | 26,700,000 | 26,850,000 | 357 | 1058 | -0.438681532 | |
| 1 | 26,775,000 | 26,925,000 | 358 | 1315 | 0.445400411 | |
| 1 | 26,850,000 | 27,000,000 | 359 | 1599 | 0.443795401 | |
| 1 | 26,925,000 | 27,075,000 | 360 | 1194 | 0.393835631 | |
| 1 | 27,000,000 | 27,150,000 | 361 | 768 | 1.01001988 | |
| 1 | 27,075,000 | 27,225,000 | 362 | 530 | 0.954220429 | |
| 1 | 27,150,000 | 27,300,000 | 363 | 519 | -1.040095323 | |
| 1 | 27,225,000 | 27,375,000 | 364 | 1098 | -0.369588199 | |
| 1 | 27,300,000 | 27,450,000 | 365 | 1058 | 0.191118589 | |
| 1 | 27,375,000 | 27,525,000 | 366 | 763 | 0.315010475 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------|
| 1 | 27,450,000 | 27,600,000 | 367 | 674 | 0.384906751 | |
| 1 | 27,525,000 | 27,675,000 | 368 | 464 | 0.223577429 | |
| 1 | 27,600,000 | 27,750,000 | 369 | 427 | -0.48312956 | |
| 1 | 27,675,000 | 27,825,000 | 370 | 813 | 0.927318381 | |
| 1 | 27,750,000 | 27,900,000 | 371 | 1033 | 0.930503189 | |
| 1 | 27,825,000 | 27,975,000 | 372 | 1025 | 0.351494558 | |
| 1 | 27,900,000 | 28,050,000 | 373 | 981 | 0.507453761 | |
| 1 | 27,975,000 | 28,125,000 | 374 | 771 | -0.187988941 | |
| 1 | 28,050,000 | 28,200,000 | 375 | 614 | -1.130001754 | |
| 1 | 28,125,000 | 28,275,000 | 376 | 505 | -1.217837524 | |
| 1 | 28,200,000 | 28,350,000 | 377 | 816 | 0.188924554 | |
| 1 | 28,275,000 | 28,425,000 | 378 | 989 | 0.644332519 | |
| 1 | 28,350,000 | 28,500,000 | 379 | 703 | 0.121533276 | |
| 1 | 28,425,000 | 28,575,000 | 380 | 416 | -0.219324232 | |
| 1 | 28,500,000 | 28,650,000 | 381 | 563 | 0.401762906 | ENSBTAG00000008359 |
| 1 | 28,575,000 | 28,725,000 | 382 | 791 | 0.245641076 | GBE1,ENSBTAG00000008359 |
| 1 | 28,650,000 | 28,800,000 | 383 | 526 | -0.394927496 | GBE1 |
| 1 | 28,725,000 | 28,875,000 | 384 | 646 | 0.331416788 | GBE1 |
| 1 | 28,800,000 | 28,950,000 | 385 | 822 | -0.025643367 | GBE1 |
| 1 | 28,875,000 | 29,025,000 | 386 | 562 | -0.671619626 | GBE1 |
| 1 | 28,950,000 | 29,100,000 | 387 | 577 | 0.607206668 | |
| 1 | 29,025,000 | 29,175,000 | 388 | 537 | 0.162543717 | |
| 1 | 29,100,000 | 29,250,000 | 389 | 334 | -1.570221673 | |
| 1 | 29,175,000 | 29,325,000 | 390 | 808 | 1.120667441 | |
| 1 | 29,250,000 | 29,400,000 | 391 | 959 | 0.934884712 | |
| 1 | 29,325,000 | 29,475,000 | 392 | 814 | 0.234467002 | |
| 1 | 29,400,000 | 29,550,000 | 393 | 1066 | 0.737045031 | |
| 1 | 29,475,000 | 29,625,000 | 394 | 805 | 0.52642807 | |
| 1 | 29,550,000 | 29,700,000 | 395 | 455 | -0.429490395 | |
| 1 | 29,625,000 | 29,775,000 | 396 | 437 | -0.249240675 | |
| 1 | 29,700,000 | 29,850,000 | 397 | 898 | 0.36869441 | |
| 1 | 29,775,000 | 29,925,000 | 398 | 1270 | 0.861540722 | |
| 1 | 29,850,000 | 30,000,000 | 399 | 1267 | 1.055576103 | |
| 1 | 29,925,000 | 30,075,000 | 400 | 895 | 0.745610516 | |
| 1 | 30,000,000 | 30,150,000 | 401 | 725 | -0.014196641 | |
| 1 | 30,075,000 | 30,225,000 | 402 | 1175 | -1.654081066 | |
| 1 | 30,150,000 | 30,300,000 | 403 | 1427 | -1.210680803 | |
| 1 | 30,225,000 | 30,375,000 | 404 | 1453 | -0.273334539 | ENSBTAG00000046383 |
| 1 | 30,300,000 | 30,450,000 | 405 | 919 | -0.522838818 | ENSBTAG00000046383 |
| 1 | 30,375,000 | 30,525,000 | 406 | 504 | 0.177697728 | |
| 1 | 30,450,000 | 30,600,000 | 407 | 679 | 0.00240187 | |
| 1 | 30,525,000 | 30,675,000 | 408 | 1347 | -0.285322333 | |
| 1 | 30,600,000 | 30,750,000 | 409 | 1574 | -0.789566237 | |
| 1 | 30,675,000 | 30,825,000 | 410 | 1001 | -1.252443724 | |
| 1 | 30,750,000 | 30,900,000 | 411 | 767 | 0.157975508 | |
| 1 | 30,825,000 | 30,975,000 | 412 | 758 | 0.896372392 | |
| 1 | 30,900,000 | 31,050,000 | 413 | 702 | -0.000879291 | |
| 1 | 30,975,000 | 31,125,000 | 414 | 1006 | -0.181409153 | |
| 1 | 31,050,000 | 31,200,000 | 415 | 1257 | 0.84311868 | |
| 1 | 31,125,000 | 31,275,000 | 416 | 1124 | 0.894300219 | |
| 1 | 31,200,000 | 31,350,000 | 417 | 1118 | 0.67185614 | |
| 1 | 31,275,000 | 31,425,000 | 418 | 1003 | 0.597694097 | |
| 1 | 31,350,000 | 31,500,000 | 419 | 617 | 0.586889068 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------|
| 1 | 31,425,000 | 31,575,000 | 420 | 368 | 0.935522098 | |
| 1 | 31,500,000 | 31,650,000 | 421 | 368 | 1.216718695 | |
| 1 | 31,575,000 | 31,725,000 | 422 | 723 | 1.205431683 | |
| 1 | 31,650,000 | 31,800,000 | 423 | 933 | 1.039064524 | |
| 1 | 31,725,000 | 31,875,000 | 424 | 1151 | 0.425185146 | |
| 1 | 31,800,000 | 31,950,000 | 425 | 1451 | 0.701022183 | |
| 1 | 31,875,000 | 32,025,000 | 426 | 1277 | 1.136841306 | |
| 1 | 31,950,000 | 32,100,000 | 427 | 1050 | 1.109685645 | |
| 1 | 32,025,000 | 32,175,000 | 428 | 784 | 0.712854589 | |
| 1 | 32,100,000 | 32,250,000 | 429 | 722 | 0.338902483 | |
| 1 | 32,175,000 | 32,325,000 | 430 | 646 | -0.125905206 | |
| 1 | 32,250,000 | 32,400,000 | 431 | 515 | -0.134479295 | |
| 1 | 32,325,000 | 32,475,000 | 432 | 700 | 0.167066278 | |
| 1 | 32,400,000 | 32,550,000 | 433 | 1012 | 0.355000506 | |
| 1 | 32,475,000 | 32,625,000 | 434 | 1378 | -0.056325537 | |
| 1 | 32,550,000 | 32,700,000 | 435 | 1582 | 0.109713063 | |
| 1 | 32,625,000 | 32,775,000 | 436 | 1343 | 1.005959372 | |
| 1 | 32,700,000 | 32,850,000 | 437 | 1274 | 1.156064496 | |
| 1 | 32,775,000 | 32,925,000 | 438 | 1317 | 1.002706194 | |
| 1 | 32,850,000 | 33,000,000 | 439 | 1136 | 0.296666891 | |
| 1 | 32,925,000 | 33,075,000 | 440 | 1208 | 0.008739818 | |
| 1 | 33,000,000 | 33,150,000 | 441 | 1612 | 0.418650469 | |
| 1 | 33,075,000 | 33,225,000 | 442 | 1721 | 0.794798238 | |
| 1 | 33,150,000 | 33,300,000 | 443 | 1317 | 0.504938442 | CADM2 |
| 1 | 33,225,000 | 33,375,000 | 444 | 1015 | -0.027319977 | CADM2 |
| 1 | 33,300,000 | 33,450,000 | 445 | 867 | 0.187153069 | CADM2 |
| 1 | 33,375,000 | 33,525,000 | 446 | 899 | 0.506336185 | CADM2 |
| 1 | 33,450,000 | 33,600,000 | 447 | 857 | 0.715798282 | CADM2 |
| 1 | 33,525,000 | 33,675,000 | 448 | 905 | -0.706539196 | CADM2 |
| 1 | 33,600,000 | 33,750,000 | 449 | 1026 | -0.45746072 | CADM2 |
| 1 | 33,675,000 | 33,825,000 | 450 | 668 | 1.078913761 | |
| 1 | 33,750,000 | 33,900,000 | 451 | 281 | 1.205073964 | |
| 1 | 33,825,000 | 33,975,000 | 452 | 390 | 1.116337931 | |
| 1 | 33,900,000 | 34,050,000 | 453 | 709 | 0.371150692 | |
| 1 | 33,975,000 | 34,125,000 | 454 | 811 | -0.414369153 | |
| 1 | 34,050,000 | 34,200,000 | 455 | 819 | -0.969468923 | |
| 1 | 34,125,000 | 34,275,000 | 456 | 904 | -3.1072595 | |
| 1 | 34,200,000 | 34,350,000 | 457 | 783 | -3.98919372 | |
| 1 | 34,275,000 | 34,425,000 | 458 | 603 | -0.659228216 | |
| 1 | 34,350,000 | 34,500,000 | 459 | 753 | -0.396053912 | |
| 1 | 34,425,000 | 34,575,000 | 460 | 751 | -0.798132637 | |
| 1 | 34,500,000 | 34,650,000 | 461 | 538 | -0.987844297 | |
| 1 | 34,575,000 | 34,725,000 | 462 | 379 | -0.397666481 | VGLL3 |
| 1 | 34,650,000 | 34,800,000 | 463 | 513 | 0.988381283 | VGLL3 |
| 1 | 34,725,000 | 34,875,000 | 464 | 735 | 0.610507567 | |
| 1 | 34,800,000 | 34,950,000 | 465 | 833 | 0.470704931 | |
| 1 | 34,875,000 | 35,025,000 | 466 | 924 | 0.916029687 | CHMP2B,PIT-1 |
| 1 | 34,950,000 | 35,100,000 | 467 | 896 | 0.464750618 | CHMP2B,PIT-1 |
| 1 | 35,025,000 | 35,175,000 | 468 | 989 | 0.72994539 | |
| 1 | 35,100,000 | 35,250,000 | 469 | 1333 | 0.306605388 | |
| 1 | 35,175,000 | 35,325,000 | 470 | 1339 | -0.400596573 | |
| 1 | 35,250,000 | 35,400,000 | 471 | 783 | -0.343169958 | |
| 1 | 35,325,000 | 35,475,000 | 472 | 663 | 0.843403155 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 1 | 35,400,000 | 35,550,000 | 473 | 626 | 1.060809382 | |
| 1 | 35,475,000 | 35,625,000 | 474 | 481 | 1.088152238 | 5HTR1F |
| 1 | 35,550,000 | 35,700,000 | 475 | 418 | 1.071225439 | 5HTR1F,CGGBP1,ZNF654 |
| 1 | 35,625,000 | 35,775,000 | 476 | 257 | 0.981051033 | C3orf38,CGGBP1,ZNF654 |
| 1 | 35,700,000 | 35,850,000 | 477 | 456 | 0.93185735 | C3orf38,ZNF654 |
| 1 | 35,775,000 | 35,925,000 | 478 | 639 | 0.743677705 | |
| 1 | 35,850,000 | 36,000,000 | 479 | 827 | 0.564703993 | |
| 1 | 35,925,000 | 36,075,000 | 480 | 1089 | 0.513946091 | |
| 1 | 36,000,000 | 36,150,000 | 481 | 888 | 0.503779778 | ENSBTAG00000045590 |
| 1 | 36,075,000 | 36,225,000 | 482 | 495 | 0.730308863 | ENSBTAG00000045590 |
| 1 | 36,150,000 | 36,300,000 | 483 | 695 | 0.601826646 | |
| 1 | 36,225,000 | 36,375,000 | 484 | 689 | 0.346546362 | |
| 1 | 36,300,000 | 36,450,000 | 485 | 575 | 0.532923825 | |
| 1 | 36,375,000 | 36,525,000 | 486 | 659 | 0.820910709 | |
| 1 | 36,450,000 | 36,600,000 | 487 | 609 | 0.417590024 | |
| 1 | 36,525,000 | 36,675,000 | 488 | 812 | -0.338345731 | |
| 1 | 36,600,000 | 36,750,000 | 489 | 708 | -0.467029461 | |
| 1 | 36,675,000 | 36,825,000 | 490 | 369 | 0.055169453 | |
| 1 | 36,750,000 | 36,900,000 | 491 | 467 | 0.319717967 | EPHA3 |
| 1 | 36,825,000 | 36,975,000 | 492 | 728 | 0.356780847 | EPHA3 |
| 1 | 36,900,000 | 37,050,000 | 493 | 711 | 0.76301653 | EPHA3 |
| 1 | 36,975,000 | 37,125,000 | 494 | 401 | 1.260576638 | EPHA3 |
| 1 | 37,050,000 | 37,200,000 | 495 | 376 | 0.65055388 | EPHA3 |
| 1 | 37,125,000 | 37,275,000 | 496 | 682 | -2.382466409 | |
| 1 | 37,200,000 | 37,350,000 | 497 | 918 | -3.78252059 | |
| 1 | 37,275,000 | 37,425,000 | 498 | 1019 | -3.465599238 | |
| 1 | 37,350,000 | 37,500,000 | 499 | 748 | -2.082299437 | |
| 1 | 37,425,000 | 37,575,000 | 500 | 808 | 0.667068825 | |
| 1 | 37,500,000 | 37,650,000 | 501 | 1043 | 0.899272162 | |
| 1 | 37,575,000 | 37,725,000 | 502 | 692 | 0.801189045 | |
| 1 | 37,650,000 | 37,800,000 | 503 | 460 | -0.391393403 | |
| 1 | 37,725,000 | 37,875,000 | 504 | 871 | -0.888148328 | PROS1 |
| 1 | 37,800,000 | 37,950,000 | 505 | 743 | -0.694856054 | ARL13B,PROS1,STX19 |
| 1 | 37,875,000 | 38,025,000 | 506 | 209 | 0.50828426 | ARL13B,NSUN3,STX19 |
| 1 | 37,950,000 | 38,100,000 | 507 | 162 | 0.998661102 | ARL13B,NSUN3 |
| 1 | 38,025,000 | 38,175,000 | 508 | 345 | 0.917031671 | |
| 1 | 38,100,000 | 38,250,000 | 509 | 800 | 1.149422362 | |
| 1 | 38,175,000 | 38,325,000 | 510 | 1287 | 1.158281208 | |
| 1 | 38,250,000 | 38,400,000 | 511 | 1146 | 1.022988537 | |
| 1 | 38,325,000 | 38,475,000 | 512 | 826 | 0.921491367 | |
| 1 | 38,400,000 | 38,550,000 | 513 | 746 | 0.649349049 | |
| 1 | 38,475,000 | 38,625,000 | 514 | 523 | 0.005315159 | |
| 1 | 38,550,000 | 38,700,000 | 515 | 471 | -0.186279677 | |
| 1 | 38,625,000 | 38,775,000 | 516 | 456 | 0.047203594 | |
| 1 | 38,700,000 | 38,850,000 | 517 | 426 | -0.465680212 | |
| 1 | 38,775,000 | 38,925,000 | 518 | 828 | -0.245664969 | |
| 1 | 38,850,000 | 39,000,000 | 519 | 1439 | 0.404730168 | |
| 1 | 38,925,000 | 39,075,000 | 520 | 1192 | 0.448423644 | |
| 1 | 39,000,000 | 39,150,000 | 521 | 691 | 0.136189641 | |
| 1 | 39,075,000 | 39,225,000 | 522 | 610 | -0.104542617 | |
| 1 | 39,150,000 | 39,300,000 | 523 | 1003 | 0.096522494 | |
| 1 | 39,225,000 | 39,375,000 | 524 | 1531 | 0.445905253 | |
| 1 | 39,300,000 | 39,450,000 | 525 | 1077 | 0.299541656 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 1 | 39,375,000 | 39,525,000 | 526 | 629 | -0.820449757 | |
| 1 | 39,450,000 | 39,600,000 | 527 | 1103 | -2.388263188 | |
| 1 | 39,525,000 | 39,675,000 | 528 | 1377 | -2.408841478 | |
| 1 | 39,600,000 | 39,750,000 | 529 | 1212 | -0.612959295 | |
| 1 | 39,675,000 | 39,825,000 | 530 | 1030 | -0.85358794 | |
| 1 | 39,750,000 | 39,900,000 | 531 | 1248 | -0.541913153 | |
| 1 | 39,825,000 | 39,975,000 | 532 | 1167 | 0.318847129 | |
| 1 | 39,900,000 | 40,050,000 | 533 | 522 | -0.640571156 | |
| 1 | 39,975,000 | 40,125,000 | 534 | 400 | -1.283314777 | |
| 1 | 40,050,000 | 40,200,000 | 535 | 558 | -0.2136033 | |
| 1 | 40,125,000 | 40,275,000 | 536 | 903 | -0.172086184 | |
| 1 | 40,200,000 | 40,350,000 | 537 | 972 | -0.559414593 | |
| 1 | 40,275,000 | 40,425,000 | 538 | 761 | 0.067147228 | |
| 1 | 40,350,000 | 40,500,000 | 539 | 564 | 0.628073083 | |
| 1 | 40,425,000 | 40,575,000 | 540 | 479 | 0.785609445 | |
| 1 | 40,500,000 | 40,650,000 | 541 | 846 | 0.742806803 | EPHA6 |
| 1 | 40,575,000 | 40,725,000 | 542 | 818 | 0.388813195 | EPHA6 |
| 1 | 40,650,000 | 40,800,000 | 543 | 505 | 0.574496038 | EPHA6 |
| 1 | 40,725,000 | 40,875,000 | 544 | 613 | -0.043594185 | EPHA6 |
| 1 | 40,800,000 | 40,950,000 | 545 | 850 | -0.272472142 | EPHA6 |
| 1 | 40,875,000 | 41,025,000 | 546 | 869 | -0.575762361 | EPHA6 |
| 1 | 40,950,000 | 41,100,000 | 547 | 702 | -0.287077313 | EPHA6 |
| 1 | 41,025,000 | 41,175,000 | 548 | 511 | 0.863604307 | EPHA6 |
| 1 | 41,100,000 | 41,250,000 | 549 | 493 | 0.620674584 | EPHA6 |
| 1 | 41,175,000 | 41,325,000 | 550 | 527 | 0.190411048 | EPHA6 |
| 1 | 41,250,000 | 41,400,000 | 551 | 490 | 0.37866247 | EPHA6 |
| 1 | 41,325,000 | 41,475,000 | 552 | 506 | 0.521614425 | EPHA6 |
| 1 | 41,400,000 | 41,550,000 | 553 | 624 | 0.499882098 | EPHA6 |
| 1 | 41,475,000 | 41,625,000 | 554 | 796 | 0.392634762 | EPHA6 |
| 1 | 41,550,000 | 41,700,000 | 555 | 669 | 0.516245702 | ARL6,EPHA6 |
| 1 | 41,625,000 | 41,775,000 | 556 | 683 | 0.707708778 | ARL6,CRYBG3,ENSBTAG00000047147 |
| 1 | 41,700,000 | 41,850,000 | 557 | 666 | 0.366835994 | CRYBG3,MINA,ENSBTAG00000047147 |
| 1 | 41,775,000 | 41,925,000 | 558 | 569 | 0.719649698 | CRYBG3,GABRR3,MINA |
| 1 | 41,850,000 | 42,000,000 | 559 | 928 | 0.760522953 | GABRR3,MINA,ENSBTAG00000023668,ENSBTAG00000047095 |
| 1 | 41,925,000 | 42,075,000 | 560 | 988 | 0.543016672 | ENSBTAG00000023668,ENSBTAG00000047095 |
| 1 | 42,000,000 | 42,150,000 | 561 | 1468 | 0.621741685 | ENSBTAG00000022908,ENSBTAG00000027113 |
| 1 | 42,075,000 | 42,225,000 | 562 | 1785 | -0.085730644 | ENSBTAG00000022908,ENSBTAG00000027113,ENSBTAG0000033437 |
| 1 | 42,150,000 | 42,300,000 | 563 | 1501 | 0.12224918 | ENSBTAG00000033437 |
| 1 | 42,225,000 | 42,375,000 | 564 | 1534 | 0.901709089 | ENSBTAG00000037820,ENSBTAG00000047371 |
| 1 | 42,300,000 | 42,450,000 | 565 | 999 | 0.989204601 | ENSBTAG00000027782,ENSBTAG00000037820,ENSBTAG0000047371 |
| 1 | 42,375,000 | 42,525,000 | 566 | 477 | 0.939453352 | CLDND1,CPOX,GPR15,ENSBTAG00000027782 |
| 1 | 42,450,000 | 42,600,000 | 567 | 849 | 1.066766913 | CLDND1,CPOX,GPR15,ENSBTAG00000023666 |
| 1 | 42,525,000 | 42,675,000 | 568 | 916 | 0.899450286 | CPOX,ENSBTAG00000023666 |
| 1 | 42,600,000 | 42,750,000 | 569 | 445 | 0.572479496 | DCBLD2,ST3GAL6 |
| 1 | 42,675,000 | 42,825,000 | 570 | 405 | 0.644321268 | DCBLD2,ST3GAL6 |
| 1 | 42,750,000 | 42,900,000 | 571 | 438 | 0.378698419 | DCBLD2 |
| 1 | 42,825,000 | 42,975,000 | 572 | 449 | 0.03396324 | |
| 1 | 42,900,000 | 43,050,000 | 573 | 491 | -0.230489752 | |
| 1 | 42,975,000 | 43,125,000 | 574 | 388 | -0.597010551 | |
| 1 | 43,050,000 | 43,200,000 | 575 | 470 | -0.527981209 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 43,125,000 | 43,275,000 | 576 | 611 | -1.619782419 | |
| 1 | 43,200,000 | 43,350,000 | 577 | 764 | -1.5482815 | |
| 1 | 43,275,000 | 43,425,000 | 578 | 996 | -0.509523347 | |
| 1 | 43,350,000 | 43,500,000 | 579 | 913 | 0.150932367 | |
| 1 | 43,425,000 | 43,575,000 | 580 | 649 | 0.50615596 | COL8A1 |
| 1 | 43,500,000 | 43,650,000 | 581 | 660 | 0.619126697 | COL8A1 |
| 1 | 43,575,000 | 43,725,000 | 582 | 689 | 0.586686595 | COL8A1 |
| 1 | 43,650,000 | 43,800,000 | 583 | 604 | 0.729718938 | CMSS1, COL8A1, FILIP1L |
| 1 | 43,725,000 | 43,875,000 | 584 | 511 | 1.040282806 | CMSS1, FILIP1L |
| 1 | 43,800,000 | 43,950,000 | 585 | 516 | 0.837391728 | CMSS1 |
| 1 | 43,875,000 | 44,025,000 | 586 | 504 | 0.55000066 | CMSS1 |
| 1 | 43,950,000 | 44,100,000 | 587 | 318 | -0.152910899 | CMSS1 |
| 1 | 44,025,000 | 44,175,000 | 588 | 249 | -2.165242567 | CMSS1, TMEM30C |
| 1 | 44,100,000 | 44,250,000 | 589 | 305 | -2.338695365 | CMSS1, TBC1D23, TMEM30C |
| 1 | 44,175,000 | 44,325,000 | 590 | 451 | -0.08209393 | NIT2, TBC1D23, TOMM70A |
| 1 | 44,250,000 | 44,400,000 | 591 | 445 | 0.805166902 | LNP1, NIT2, TBC1D23, TOMM70A, ENSBTAG00000013321 |
| 1 | 44,325,000 | 44,475,000 | 592 | 431 | 0.729698233 | LNP1, TOMM70A, ENSBTAG00000013321 |
| 1 | 44,400,000 | 44,550,000 | 593 | 707 | 0.903075301 | ENSBTAG00000013321 |
| 1 | 44,475,000 | 44,625,000 | 594 | 1044 | 0.147264344 | ENSBTAG00000013321 |
| 1 | 44,550,000 | 44,700,000 | 595 | 1051 | 0.00625193 | EFHB |
| 1 | 44,625,000 | 44,775,000 | 596 | 772 | 0.392273329 | EFHB, PP2D1, RAB5A |
| 1 | 44,700,000 | 44,850,000 | 597 | 938 | 0.856657769 | EFHB, PP2D1, RAB5A |
| 1 | 44,775,000 | 44,925,000 | 598 | 933 | 0.761813213 | PCAF |
| 1 | 44,850,000 | 45,000,000 | 599 | 709 | -0.079046929 | PCAF, SGOL1 |
| 1 | 44,925,000 | 45,075,000 | 600 | 934 | 0.726201348 | PCAF, PRDM9, SGOL1 |
| 1 | 45,000,000 | 45,150,000 | 601 | 874 | 0.804787749 | PRDM9, ENSBTAG00000047076 |
| 1 | 45,075,000 | 45,225,000 | 602 | 1006 | -1.161371593 | PRDM9, ENSBTAG00000047076 |
| 1 | 45,150,000 | 45,300,000 | 603 | 1150 | -0.987306879 | ENSBTAG00000004459 |
| 1 | 45,225,000 | 45,375,000 | 604 | 969 | 0.772892533 | ENSBTAG00000004459 |
| 1 | 45,300,000 | 45,450,000 | 605 | 889 | 0.378400876 | GPR128, ENSBTAG00000004459 |
| 1 | 45,375,000 | 45,525,000 | 606 | 694 | 0.614752337 | ABI3BP, GPR128, TFG, ENSBTAG00000004459 |
| 1 | 45,450,000 | 45,600,000 | 607 | 737 | 0.974272768 | ABI3BP, GPR128, TFG |
| 1 | 45,525,000 | 45,675,000 | 608 | 867 | 0.733906204 | ABI3BP |
| 1 | 45,600,000 | 45,750,000 | 609 | 937 | 0.287755496 | ABI3BP |
| 1 | 45,675,000 | 45,825,000 | 610 | 996 | 0.131723196 | ABI3BP |
| 1 | 45,750,000 | 45,900,000 | 611 | 647 | -0.129481265 | ABI3BP |
| 1 | 45,825,000 | 45,975,000 | 612 | 390 | 0.016711756 | |
| 1 | 45,900,000 | 46,050,000 | 613 | 329 | 0.746843634 | |
| 1 | 45,975,000 | 46,125,000 | 614 | 287 | 0.461755026 | IMPG2 |
| 1 | 46,050,000 | 46,200,000 | 615 | 295 | 0.29799198 | IMPG2, SENP7 |
| 1 | 46,125,000 | 46,275,000 | 616 | 213 | 0.789387448 | IMPG2, SENP7 |
| 1 | 46,200,000 | 46,350,000 | 617 | 177 | 0.350940622 | FAM172A, SENP7, TRMT10C |
| 1 | 46,275,000 | 46,425,000 | 618 | 133 | 0.158262781 | FAM172A, PCNP, RPL24, SENP7, TRMT10C, ZBTB11 |
| 1 | 46,350,000 | 46,500,000 | 619 | 180 | 1.161986386 | CEP97, NXPE3, PCNP, RPL24, ZBTB11 |
| 1 | 46,425,000 | 46,575,000 | 620 | 307 | 1.327070882 | CEP97, NFKBIZ, NXPE3 |
| 1 | 46,500,000 | 46,650,000 | 621 | 243 | 0.743807651 | NFKBIZ, NXPE3 |
| 1 | 46,575,000 | 46,725,000 | 622 | 337 | -0.474788536 | |
| 1 | 46,650,000 | 46,800,000 | 623 | 682 | 0.238719218 | |
| 1 | 46,725,000 | 46,875,000 | 624 | 830 | -0.302882179 | |
| 1 | 46,800,000 | 46,950,000 | 625 | 631 | -0.713270391 | |
| 1 | 46,875,000 | 47,025,000 | 626 | 487 | 0.559777939 | ENSBTAG00000024806 |
| 1 | 46,950,000 | 47,100,000 | 627 | 587 | 0.696332626 | ENSBTAG00000024806, ENSBTAG00000047093 |
| 1 | 47,025,000 | 47,175,000 | 628 | 1140 | 0.486621822 | ENSBTAG00000047093 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 47,100,000 | 47,250,000 | 629 | 1497 | 0.780848506 | |
| 1 | 47,175,000 | 47,325,000 | 630 | 994 | 0.902730043 | ZPLD1 |
| 1 | 47,250,000 | 47,400,000 | 631 | 905 | 1.039015003 | ZPLD1 |
| 1 | 47,325,000 | 47,475,000 | 632 | 949 | 0.418015036 | |
| 1 | 47,400,000 | 47,550,000 | 633 | 552 | -1.117366139 | |
| 1 | 47,475,000 | 47,625,000 | 634 | 592 | 0.946064965 | |
| 1 | 47,550,000 | 47,700,000 | 635 | 981 | 1.056006839 | |
| 1 | 47,625,000 | 47,775,000 | 636 | 1082 | 0.735317972 | |
| 1 | 47,700,000 | 47,850,000 | 637 | 645 | 0.312080887 | |
| 1 | 47,775,000 | 47,925,000 | 638 | 295 | 0.32055155 | |
| 1 | 47,850,000 | 48,000,000 | 639 | 746 | 0.314048955 | |
| 1 | 47,925,000 | 48,075,000 | 640 | 1351 | 0.49962712 | |
| 1 | 48,000,000 | 48,150,000 | 641 | 1565 | 0.874919401 | |
| 1 | 48,075,000 | 48,225,000 | 642 | 1274 | 0.919079085 | |
| 1 | 48,150,000 | 48,300,000 | 643 | 751 | 0.638168908 | |
| 1 | 48,225,000 | 48,375,000 | 644 | 880 | 1.079721979 | |
| 1 | 48,300,000 | 48,450,000 | 645 | 1159 | 1.131923872 | |
| 1 | 48,375,000 | 48,525,000 | 646 | 1391 | 0.423560739 | |
| 1 | 48,450,000 | 48,600,000 | 647 | 1453 | 0.527634243 | |
| 1 | 48,525,000 | 48,675,000 | 648 | 1296 | 0.553984502 | |
| 1 | 48,600,000 | 48,750,000 | 649 | 1110 | -0.024744023 | |
| 1 | 48,675,000 | 48,825,000 | 650 | 983 | 0.892599161 | |
| 1 | 48,750,000 | 48,900,000 | 651 | 1286 | 0.729475437 | |
| 1 | 48,825,000 | 48,975,000 | 652 | 1365 | 0.595870914 | |
| 1 | 48,900,000 | 49,050,000 | 653 | 1177 | 0.7967727 | |
| 1 | 48,975,000 | 49,125,000 | 654 | 1177 | 0.634680278 | |
| 1 | 49,050,000 | 49,200,000 | 655 | 1017 | 0.23284414 | |
| 1 | 49,125,000 | 49,275,000 | 656 | 930 | 0.308132318 | |
| 1 | 49,200,000 | 49,350,000 | 657 | 1083 | 0.863678506 | |
| 1 | 49,275,000 | 49,425,000 | 658 | 912 | 0.781907163 | |
| 1 | 49,350,000 | 49,500,000 | 659 | 734 | 0.522246261 | |
| 1 | 49,425,000 | 49,575,000 | 660 | 563 | 0.427825506 | |
| 1 | 49,500,000 | 49,650,000 | 661 | 731 | 0.558369964 | |
| 1 | 49,575,000 | 49,725,000 | 662 | 984 | 0.894210775 | |
| 1 | 49,650,000 | 49,800,000 | 663 | 680 | 0.684756104 | |
| 1 | 49,725,000 | 49,875,000 | 664 | 453 | 0.088487587 | |
| 1 | 49,800,000 | 49,950,000 | 665 | 405 | 0.212511603 | |
| 1 | 49,875,000 | 50,025,000 | 666 | 770 | 1.163525938 | |
| 1 | 49,950,000 | 50,100,000 | 667 | 1127 | 0.852668078 | |
| 1 | 50,025,000 | 50,175,000 | 668 | 964 | 0.519347583 | |
| 1 | 50,100,000 | 50,250,000 | 669 | 1026 | 1.020599388 | |
| 1 | 50,175,000 | 50,325,000 | 670 | 1225 | 1.105555898 | |
| 1 | 50,250,000 | 50,400,000 | 671 | 868 | 0.910507111 | ALCAM |
| 1 | 50,325,000 | 50,475,000 | 672 | 575 | 0.09942774 | ALCAM |
| 1 | 50,400,000 | 50,550,000 | 673 | 764 | 0.729244607 | ALCAM |
| 1 | 50,475,000 | 50,625,000 | 674 | 996 | 0.969832219 | ALCAM |
| 1 | 50,550,000 | 50,700,000 | 675 | 1055 | 0.826931292 | ALCAM,CBLB |
| 1 | 50,625,000 | 50,775,000 | 676 | 718 | 0.88844325 | CBLB |
| 1 | 50,700,000 | 50,850,000 | 677 | 523 | 0.588247742 | CBLB |
| 1 | 50,775,000 | 50,925,000 | 678 | 734 | 0.959872898 | CBLB |
| 1 | 50,850,000 | 51,000,000 | 679 | 1215 | 1.338784475 | CBLB |
| 1 | 50,925,000 | 51,075,000 | 680 | 1434 | 1.199455482 | ENSBTAG00000005414 |
| 1 | 51,000,000 | 51,150,000 | 681 | 921 | 0.944719735 | ENSBTAG00000005414 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 1 | 51,075,000 | 51,225,000 | 682 | 763 | 1.191348002 | |
| 1 | 51,150,000 | 51,300,000 | 683 | 1141 | 0.995616909 | |
| 1 | 51,225,000 | 51,375,000 | 684 | 1120 | 1.173497358 | |
| 1 | 51,300,000 | 51,450,000 | 685 | 1059 | 1.05669968 | |
| 1 | 51,375,000 | 51,525,000 | 686 | 1296 | 0.709089507 | |
| 1 | 51,450,000 | 51,600,000 | 687 | 1425 | 0.73519996 | |
| 1 | 51,525,000 | 51,675,000 | 688 | 945 | 0.52723481 | |
| 1 | 51,600,000 | 51,750,000 | 689 | 734 | 0.692902067 | |
| 1 | 51,675,000 | 51,825,000 | 690 | 878 | 0.965822011 | |
| 1 | 51,750,000 | 51,900,000 | 691 | 699 | 0.557048269 | |
| 1 | 51,825,000 | 51,975,000 | 692 | 513 | 0.197184629 | |
| 1 | 51,900,000 | 52,050,000 | 693 | 700 | 0.136633185 | |
| 1 | 51,975,000 | 52,125,000 | 694 | 1040 | 0.254997821 | |
| 1 | 52,050,000 | 52,200,000 | 695 | 890 | 0.538188064 | |
| 1 | 52,125,000 | 52,275,000 | 696 | 753 | 0.50606324 | |
| 1 | 52,200,000 | 52,350,000 | 697 | 655 | 0.367567956 | |
| 1 | 52,275,000 | 52,425,000 | 698 | 657 | 0.373703637 | CCDC54 |
| 1 | 52,350,000 | 52,500,000 | 699 | 544 | 0.378203731 | CCDC54 |
| 1 | 52,425,000 | 52,575,000 | 700 | 307 | 0.260165576 | BBX |
| 1 | 52,500,000 | 52,650,000 | 701 | 321 | -0.293601556 | BBX |
| 1 | 52,575,000 | 52,725,000 | 702 | 319 | -0.26019433 | BBX |
| 1 | 52,650,000 | 52,800,000 | 703 | 478 | 0.135260064 | BBX |
| 1 | 52,725,000 | 52,875,000 | 704 | 690 | 0.412437361 | BBX |
| 1 | 52,800,000 | 52,950,000 | 705 | 770 | 0.979222796 | BBX |
| 1 | 52,875,000 | 53,025,000 | 706 | 822 | 1.095274689 | |
| 1 | 52,950,000 | 53,100,000 | 707 | 768 | 0.883841875 | |
| 1 | 53,025,000 | 53,175,000 | 708 | 541 | 0.592738921 | CD47 |
| 1 | 53,100,000 | 53,250,000 | 709 | 517 | 0.448908302 | CD47 |
| 1 | 53,175,000 | 53,325,000 | 710 | 679 | 0.544333901 | IFT57 |
| 1 | 53,250,000 | 53,400,000 | 711 | 736 | 0.333394135 | IFT57 |
| 1 | 53,325,000 | 53,475,000 | 712 | 597 | -0.053682947 | IFT57 |
| 1 | 53,400,000 | 53,550,000 | 713 | 431 | 0.144822242 | HHLA2,MYH15 |
| 1 | 53,475,000 | 53,625,000 | 714 | 591 | -0.315542787 | HHLA2,MYH15 |
| 1 | 53,550,000 | 53,700,000 | 715 | 654 | -0.467930887 | MYH15 |
| 1 | 53,625,000 | 53,775,000 | 716 | 464 | -0.51832709 | DZIP3,KIAA1524,MYH15 |
| 1 | 53,700,000 | 53,850,000 | 717 | 297 | -0.675598751 | DZIP3,KIAA1524 |
| 1 | 53,775,000 | 53,925,000 | 718 | 298 | 0.1940777 | DZIP3 |
| 1 | 53,850,000 | 54,000,000 | 719 | 451 | 0.794835543 | DZIP3,TRAT1 |
| 1 | 53,925,000 | 54,075,000 | 720 | 749 | 0.85512752 | TRAT1 |
| 1 | 54,000,000 | 54,150,000 | 721 | 1382 | 0.427168264 | MORC1,TRAT1 |
| 1 | 54,075,000 | 54,225,000 | 722 | 1577 | 0.406351335 | MORC1 |
| 1 | 54,150,000 | 54,300,000 | 723 | 1398 | 0.928543513 | MORC1 |
| 1 | 54,225,000 | 54,375,000 | 724 | 1412 | 0.518516658 | MORC1 |
| 1 | 54,300,000 | 54,450,000 | 725 | 1332 | -0.49102604 | MORC1 |
| 1 | 54,375,000 | 54,525,000 | 726 | 1011 | -0.413718545 | DPPA2,ENSBTAG00000038103 |
| 1 | 54,450,000 | 54,600,000 | 727 | 1247 | 0.589117933 | DPPA2,ENSBTAG00000038103 |
| 1 | 54,525,000 | 54,675,000 | 728 | 1734 | 0.782111114 | RPL10 |
| 1 | 54,600,000 | 54,750,000 | 729 | 1226 | 0.605694744 | RPL10 |
| 1 | 54,675,000 | 54,825,000 | 730 | 912 | -2.540268306 | |
| 1 | 54,750,000 | 54,900,000 | 731 | 1016 | -2.696034181 | |
| 1 | 54,825,000 | 54,975,000 | 732 | 908 | -0.991714072 | |
| 1 | 54,900,000 | 55,050,000 | 733 | 867 | -0.047276152 | |
| 1 | 54,975,000 | 55,125,000 | 734 | 829 | 0.295593204 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 1 | 55,050,000 | 55,200,000 | 735 | 996 | 0.278724227 | |
| 1 | 55,125,000 | 55,275,000 | 736 | 992 | 0.366651641 | |
| 1 | 55,200,000 | 55,350,000 | 737 | 665 | 0.100023775 | |
| 1 | 55,275,000 | 55,425,000 | 738 | 561 | -1.288915084 | |
| 1 | 55,350,000 | 55,500,000 | 739 | 753 | -0.300336869 | |
| 1 | 55,425,000 | 55,575,000 | 740 | 699 | 0.859067588 | |
| 1 | 55,500,000 | 55,650,000 | 741 | 480 | 0.665950642 | |
| 1 | 55,575,000 | 55,725,000 | 742 | 463 | -0.527011728 | |
| 1 | 55,650,000 | 55,800,000 | 743 | 567 | -1.323520571 | |
| 1 | 55,725,000 | 55,875,000 | 744 | 774 | 0.107787163 | ENSBTAG00000045855 |
| 1 | 55,800,000 | 55,950,000 | 745 | 1062 | 1.126852369 | ENSBTAG00000045855 |
| 1 | 55,875,000 | 56,025,000 | 746 | 1204 | 1.024992987 | |
| 1 | 55,950,000 | 56,100,000 | 747 | 1450 | 0.826473231 | ENSBTAG00000045820 |
| 1 | 56,025,000 | 56,175,000 | 748 | 1664 | 0.862267446 | ENSBTAG00000038651,ENSBTAG00000045820 |
| 1 | 56,100,000 | 56,250,000 | 749 | 1182 | 0.783114941 | ENSBTAG00000038651 |
| 1 | 56,175,000 | 56,325,000 | 750 | 955 | 0.935067928 | |
| 1 | 56,250,000 | 56,400,000 | 751 | 764 | 1.027125859 | PVRL3 |
| 1 | 56,325,000 | 56,475,000 | 752 | 557 | 1.201809319 | PVRL3 |
| 1 | 56,400,000 | 56,550,000 | 753 | 976 | 1.365603494 | |
| 1 | 56,475,000 | 56,625,000 | 754 | 1149 | 0.911634161 | |
| 1 | 56,550,000 | 56,700,000 | 755 | 1347 | -0.135676824 | |
| 1 | 56,625,000 | 56,775,000 | 756 | 1433 | -0.123313261 | CD96,ZBED2 |
| 1 | 56,700,000 | 56,850,000 | 757 | 1493 | -0.374144253 | CD96,PLCXD2,ZBED2 |
| 1 | 56,775,000 | 56,925,000 | 758 | 1378 | -0.333553944 | CD96,PLCXD2 |
| 1 | 56,850,000 | 57,000,000 | 759 | 894 | -0.111179143 | PLCXD2 |
| 1 | 56,925,000 | 57,075,000 | 760 | 765 | -0.209669198 | PHLDB2 |
| 1 | 57,000,000 | 57,150,000 | 761 | 696 | 0.717620209 | PHLDB2 |
| 1 | 57,075,000 | 57,225,000 | 762 | 901 | -0.429909035 | ABHD10,PHLDB2,TAGLN3,TMPRSS7 |
| 1 | 57,150,000 | 57,300,000 | 763 | 1008 | -0.696188291 | ABHD10,C3orf52,TAGLN3,TMPRSS7 |
| 1 | 57,225,000 | 57,375,000 | 764 | 1079 | 0.205090619 | C3orf52,GCSAM,SLC9C1,TMPRSS7 |
| 1 | 57,300,000 | 57,450,000 | 765 | 1140 | 0.338833741 | C3orf52,GCSAM,SLC9C1 |
| 1 | 57,375,000 | 57,525,000 | 766 | 742 | 0.711119567 | SLC9C1 |
| 1 | 57,450,000 | 57,600,000 | 767 | 575 | 0.529366697 | CD200,SLC9C1 |
| 1 | 57,525,000 | 57,675,000 | 768 | 919 | 0.614018443 | BTLA,CD200 |
| 1 | 57,600,000 | 57,750,000 | 769 | 840 | 0.749715787 | BTLA |
| 1 | 57,675,000 | 57,825,000 | 770 | 454 | 0.986429877 | ATG3,BTLA,CCDC80,SLC35A5 |
| 1 | 57,750,000 | 57,900,000 | 771 | 422 | 1.094330113 | ATG3,CCDC80,SLC35A5 |
| 1 | 57,825,000 | 57,975,000 | 772 | 540 | 0.377698505 | CCDC80 |
| 1 | 57,900,000 | 58,050,000 | 773 | 750 | 0.480902739 | ENSBTAG00000040144 |
| 1 | 57,975,000 | 58,125,000 | 774 | 1020 | 0.93557474 | CD200R1,ENSBTAG00000040144 |
| 1 | 58,050,000 | 58,200,000 | 775 | 916 | 1.250897295 | C3orf17,CD200R1,GTPBP8 |
| 1 | 58,125,000 | 58,275,000 | 776 | 650 | 1.330934325 | C3orf17,CD200R1,GTPBP8 |
| 1 | 58,200,000 | 58,350,000 | 777 | 1028 | 0.805539217 | |
| 1 | 58,275,000 | 58,425,000 | 778 | 946 | 0.433608577 | |
| 1 | 58,350,000 | 58,500,000 | 779 | 540 | 0.160266028 | BOC,CFAP44 |
| 1 | 58,425,000 | 58,575,000 | 780 | 887 | 0.920319855 | BOC,CFAP44 |
| 1 | 58,500,000 | 58,650,000 | 781 | 879 | 1.03559916 | CFAP44,SPICE1 |
| 1 | 58,575,000 | 58,725,000 | 782 | 761 | -0.90583128 | CFAP44,SIDT1,SPICE1 |
| 1 | 58,650,000 | 58,800,000 | 783 | 785 | -1.390667707 | KIAA2018,SIDT1 |
| 1 | 58,725,000 | 58,875,000 | 784 | 358 | 0.390407139 | KIAA2018,NAA50,SIDT1 |
| 1 | 58,800,000 | 58,950,000 | 785 | 498 | 1.313383282 | ATP6V1A,KIAA2018,NAA50 |
| 1 | 58,875,000 | 59,025,000 | 786 | 576 | 1.289863201 | ATP6V1A,GRAMD1C,NAA50 |
| 1 | 58,950,000 | 59,100,000 | 787 | 429 | 1.049001573 | GRAMD1C,KIAA1407,ZDHHC23 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 1 | 59,025,000 | 59,175,000 | 788 | 533 | 1.031517215 | GRAMD1C,KIAA1407,ZDHHC23 |
| 1 | 59,100,000 | 59,250,000 | 789 | 536 | 1.131852325 | KIAA1407,QTRTD1 |
| 1 | 59,175,000 | 59,325,000 | 790 | 591 | 1.152306496 | DRD3,KIAA1407,QTRTD1 |
| 1 | 59,250,000 | 59,400,000 | 791 | 582 | 1.097226169 | DRD3,TIGIT |
| 1 | 59,325,000 | 59,475,000 | 792 | 548 | 0.895922772 | DRD3,TIGIT,ZBTB20 |
| 1 | 59,400,000 | 59,550,000 | 793 | 409 | 0.738419936 | ZBTB20 |
| 1 | 59,475,000 | 59,625,000 | 794 | 384 | 0.703121112 | ZBTB20 |
| 1 | 59,550,000 | 59,700,000 | 795 | 561 | 0.583571825 | ZBTB20 |
| 1 | 59,625,000 | 59,775,000 | 796 | 547 | 0.440092339 | ZBTB20 |
| 1 | 59,700,000 | 59,850,000 | 797 | 366 | 0.275784839 | ZBTB20 |
| 1 | 59,775,000 | 59,925,000 | 798 | 384 | -0.329746781 | |
| 1 | 59,850,000 | 60,000,000 | 799 | 372 | 0.140880343 | |
| 1 | 59,925,000 | 60,075,000 | 800 | 398 | 1.174337505 | |
| 1 | 60,000,000 | 60,150,000 | 801 | 571 | -0.096496229 | |
| 1 | 60,075,000 | 60,225,000 | 802 | 769 | -1.189727793 | |
| 1 | 60,150,000 | 60,300,000 | 803 | 675 | -0.686869446 | |
| 1 | 60,225,000 | 60,375,000 | 804 | 477 | -0.335231504 | |
| 1 | 60,300,000 | 60,450,000 | 805 | 663 | -0.360941118 | |
| 1 | 60,375,000 | 60,525,000 | 806 | 776 | -0.118105612 | |
| 1 | 60,450,000 | 60,600,000 | 807 | 678 | 1.007506606 | |
| 1 | 60,525,000 | 60,675,000 | 808 | 588 | -0.963153616 | |
| 1 | 60,600,000 | 60,750,000 | 809 | 622 | -1.572556174 | |
| 1 | 60,675,000 | 60,825,000 | 810 | 748 | 1.334385268 | |
| 1 | 60,750,000 | 60,900,000 | 811 | 728 | 1.354840185 | GAP43 |
| 1 | 60,825,000 | 60,975,000 | 812 | 693 | 1.003773143 | GAP43 |
| 1 | 60,900,000 | 61,050,000 | 813 | 588 | 0.445794441 | GAP43 |
| 1 | 60,975,000 | 61,125,000 | 814 | 747 | -0.08442923 | |
| 1 | 61,050,000 | 61,200,000 | 815 | 1208 | -0.493161818 | |
| 1 | 61,125,000 | 61,275,000 | 816 | 822 | -0.135317791 | |
| 1 | 61,200,000 | 61,350,000 | 817 | 357 | -0.45626051 | |
| 1 | 61,275,000 | 61,425,000 | 818 | 482 | -0.542001253 | |
| 1 | 61,350,000 | 61,500,000 | 819 | 498 | -0.277572701 | |
| 1 | 61,425,000 | 61,575,000 | 820 | 601 | -0.15729944 | |
| 1 | 61,500,000 | 61,650,000 | 821 | 887 | 0.629823546 | |
| 1 | 61,575,000 | 61,725,000 | 822 | 911 | 0.56902855 | |
| 1 | 61,650,000 | 61,800,000 | 823 | 915 | 0.165068182 | |
| 1 | 61,725,000 | 61,875,000 | 824 | 1203 | -0.192116832 | |
| 1 | 61,800,000 | 61,950,000 | 825 | 1252 | -0.15948378 | |
| 1 | 61,875,000 | 62,025,000 | 826 | 1210 | -0.158506346 | |
| 1 | 61,950,000 | 62,100,000 | 827 | 990 | 0.05111669 | |
| 1 | 62,025,000 | 62,175,000 | 828 | 961 | 0.809864821 | ENSBTAG00000040393 |
| 1 | 62,100,000 | 62,250,000 | 829 | 1129 | 0.875941851 | ENSBTAG00000040393 |
| 1 | 62,175,000 | 62,325,000 | 830 | 1065 | 1.107745542 | |
| 1 | 62,250,000 | 62,400,000 | 831 | 1144 | 1.204946389 | ENSBTAG00000046854 |
| 1 | 62,325,000 | 62,475,000 | 832 | 1013 | 1.273292821 | ENSBTAG00000046854 |
| 1 | 62,400,000 | 62,550,000 | 833 | 933 | 1.34267549 | |
| 1 | 62,475,000 | 62,625,000 | 834 | 1088 | 1.337730633 | |
| 1 | 62,550,000 | 62,700,000 | 835 | 1050 | 1.1887945 | |
| 1 | 62,625,000 | 62,775,000 | 836 | 923 | 0.989897506 | |
| 1 | 62,700,000 | 62,850,000 | 837 | 1123 | 1.08490399 | |
| 1 | 62,775,000 | 62,925,000 | 838 | 1097 | 0.996514702 | |
| 1 | 62,850,000 | 63,000,000 | 839 | 1069 | 0.816707067 | |
| 1 | 62,925,000 | 63,075,000 | 840 | 1285 | 0.778545782 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 63,000,000 | 63,150,000 | 841 | 1381 | 0.794238979 | |
| 1 | 63,075,000 | 63,225,000 | 842 | 1277 | 0.634825961 | |
| 1 | 63,150,000 | 63,300,000 | 843 | 1072 | -0.678097084 | |
| 1 | 63,225,000 | 63,375,000 | 844 | 984 | -0.949225771 | |
| 1 | 63,300,000 | 63,450,000 | 845 | 790 | 0.163978193 | |
| 1 | 63,375,000 | 63,525,000 | 846 | 690 | -0.046693343 | |
| 1 | 63,450,000 | 63,600,000 | 847 | 966 | 0.023837163 | |
| 1 | 63,525,000 | 63,675,000 | 848 | 1026 | 0.584517717 | |
| 1 | 63,600,000 | 63,750,000 | 849 | 947 | 0.551894234 | |
| 1 | 63,675,000 | 63,825,000 | 850 | 835 | 0.556980703 | |
| 1 | 63,750,000 | 63,900,000 | 851 | 640 | 0.457620198 | |
| 1 | 63,825,000 | 63,975,000 | 852 | 670 | -0.108473581 | |
| 1 | 63,900,000 | 64,050,000 | 853 | 730 | -0.546688445 | |
| 1 | 63,975,000 | 64,125,000 | 854 | 875 | 0.330482863 | |
| 1 | 64,050,000 | 64,200,000 | 855 | 629 | 0.921499722 | |
| 1 | 64,125,000 | 64,275,000 | 856 | 417 | 0.882666742 | |
| 1 | 64,200,000 | 64,350,000 | 857 | 508 | 0.431170358 | |
| 1 | 64,275,000 | 64,425,000 | 858 | 604 | 0.506073876 | IGSF11 |
| 1 | 64,350,000 | 64,500,000 | 859 | 689 | 0.726412547 | IGSF11 |
| 1 | 64,425,000 | 64,575,000 | 860 | 424 | 0.611470539 | C3orf30,IGSF11 |
| 1 | 64,500,000 | 64,650,000 | 861 | 379 | -0.340982343 | B4GALT4,C3orf30,UPK1B |
| 1 | 64,575,000 | 64,725,000 | 862 | 480 | 0.000360284 | B4GALT4,UPK1B |
| 1 | 64,650,000 | 64,800,000 | 863 | 396 | 0.214675558 | ARHGAP31 |
| 1 | 64,725,000 | 64,875,000 | 864 | 381 | -0.105311069 | ARHGAP31,POGLUT1,TIMMDC1,TMEM39A |
| 1 | 64,800,000 | 64,950,000 | 865 | 382 | 0.205668256 | ADPRH,CD80,PLA1A,POGLUT1,TIMMDC1,TMEM39A |
| 1 | 64,875,000 | 65,025,000 | 866 | 491 | 0.408812553 | ADPRH,CD80,COX17,PLA1A,POPDC2,TIMMDC1 |
| 1 | 64,950,000 | 65,100,000 | 867 | 731 | 0.644460682 | COX17,MAATS1,PLA1A,POPDC2 |
| 1 | 65,025,000 | 65,175,000 | 868 | 554 | 0.715153158 | COX17,MAATS1 |
| 1 | 65,100,000 | 65,250,000 | 869 | 247 | -0.121672807 | MAATS1,NR1I2 |
| 1 | 65,175,000 | 65,325,000 | 870 | 244 | -0.975726828 | GSK3B,NR1I2,ENSBTAG00000040597 |
| 1 | 65,250,000 | 65,400,000 | 871 | 232 | -1.985773203 | GSK3B,ENSBTAG00000040597 |
| 1 | 65,325,000 | 65,475,000 | 872 | 251 | -2.006494177 | GSK3B |
| 1 | 65,400,000 | 65,550,000 | 873 | 253 | -0.886288967 | GPR156,GSK3B |
| 1 | 65,475,000 | 65,625,000 | 874 | 278 | -0.384086893 | GPR156 |
| 1 | 65,550,000 | 65,700,000 | 875 | 311 | -0.150824141 | GPR156,LRRC58 |
| 1 | 65,625,000 | 65,775,000 | 876 | 463 | 0.518850968 | FSTL1,LRRC58 |
| 1 | 65,700,000 | 65,850,000 | 877 | 380 | 0.561635469 | FSTL1,LRRC58 |
| 1 | 65,775,000 | 65,925,000 | 878 | 154 | -0.074571437 | FSTL1,NDUFB4 |
| 1 | 65,850,000 | 66,000,000 | 879 | 520 | -1.108849157 | HGD,NDUFB4,RABL3 |
| 1 | 65,925,000 | 66,075,000 | 880 | 597 | -0.730224914 | GTF2E1,HGD,NDUFB4,RABL3 |
| 1 | 66,000,000 | 66,150,000 | 881 | 440 | 0.489208895 | GTF2E1,RABL3 |
| 1 | 66,075,000 | 66,225,000 | 882 | 584 | 0.116974008 | STXBP5L |
| 1 | 66,150,000 | 66,300,000 | 883 | 426 | -0.153309472 | STXBP5L |
| 1 | 66,225,000 | 66,375,000 | 884 | 242 | -0.612767322 | STXBP5L |
| 1 | 66,300,000 | 66,450,000 | 885 | 588 | -1.401692981 | STXBP5L |
| 1 | 66,375,000 | 66,525,000 | 886 | 1161 | -0.645440283 | STXBP5L |
| 1 | 66,450,000 | 66,600,000 | 887 | 1173 | 0.550438725 | POLQ,STXBP5L |
| 1 | 66,525,000 | 66,675,000 | 888 | 958 | 0.906577316 | POLQ,STXBP5L |
| 1 | 66,600,000 | 66,750,000 | 889 | 646 | 0.713749422 | ARGFX,FBXO40,HCLS1,POLQ |
| 1 | 66,675,000 | 66,825,000 | 890 | 385 | -0.197463532 | ARGFX,FBXO40,GOLGB1,HCLS1 |
| 1 | 66,750,000 | 66,900,000 | 891 | 287 | -0.774384271 | GOLGB1,HCLS1,IQCB1 |
| 1 | 66,825,000 | 66,975,000 | 892 | 151 | -1.115742006 | EAF2,IQCB1,SLC15A2 |
| 1 | 66,900,000 | 67,050,000 | 893 | 213 | 0.135399252 | EAF2,IQCB1,SLC15A2,ENSBTAG00000001442 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 66,975,000 | 67,125,000 | 894 | 462 | 0.241238813 | ILDRI,SLC15A2,ENSBTAG00000001442 |
| 1 | 67,050,000 | 67,200,000 | 895 | 493 | -0.06679637 | CD86,ILDRI |
| 1 | 67,125,000 | 67,275,000 | 896 | 300 | -0.612738149 | CASR,CD86 |
| 1 | 67,200,000 | 67,350,000 | 897 | 471 | -0.223179313 | CASR,CD86 |
| 1 | 67,275,000 | 67,425,000 | 898 | 846 | 0.219393723 | CASR,CCDC58,CSTA,FAM162A,ENSBTAG00000014133 |
| 1 | 67,350,000 | 67,500,000 | 899 | 890 | 0.966037375 | CCDC58,CSTA,FAM162A,KPNA1,ENSBTAG00000014133 |
| 1 | 67,425,000 | 67,575,000 | 900 | 769 | 1.010687969 | CCDC58,FAM162A,KPNA1,PARP9 |
| 1 | 67,500,000 | 67,650,000 | 901 | 682 | 0.551550365 | DTX3L,KPNA1,PARP14,PARP9 |
| 1 | 67,575,000 | 67,725,000 | 902 | 563 | -1.428550379 | DIRC2,DTX3L,HSPBAP1,PARP14,PARP9 |
| 1 | 67,650,000 | 67,800,000 | 903 | 379 | -1.910372634 | DIRC2,HSPBAP1,PARP14 |
| 1 | 67,725,000 | 67,875,000 | 904 | 259 | -0.39663297 | DIRC2,SEMA5B |
| 1 | 67,800,000 | 67,950,000 | 905 | 518 | -0.214772409 | DIRC2,SEMA5B |
| 1 | 67,875,000 | 68,025,000 | 906 | 637 | 0.287374396 | PDIA5,SEMA5B |
| 1 | 67,950,000 | 68,100,000 | 907 | 604 | -0.032416539 | PDIA5 |
| 1 | 68,025,000 | 68,175,000 | 908 | 919 | -1.944410187 | PDIA5,SEC22A |
| 1 | 68,100,000 | 68,250,000 | 909 | 922 | -2.8085257 | PDIA5,SEC22A |
| 1 | 68,175,000 | 68,325,000 | 910 | 698 | -0.691727818 | ADCY5,SEC22A |
| 1 | 68,250,000 | 68,400,000 | 911 | 495 | 0.193649313 | ADCY5 |
| 1 | 68,325,000 | 68,475,000 | 912 | 329 | -1.419192302 | ADCY5,PTPLB |
| 1 | 68,400,000 | 68,550,000 | 913 | 372 | -1.625206988 | ADCY5,PTPLB |
| 1 | 68,475,000 | 68,625,000 | 914 | 463 | -1.082131807 | MYLK,PTPLB |
| 1 | 68,550,000 | 68,700,000 | 915 | 644 | -0.476002359 | MYLK,PTPLB |
| 1 | 68,625,000 | 68,775,000 | 916 | 629 | -0.453828068 | MYLK |
| 1 | 68,700,000 | 68,850,000 | 917 | 663 | 0.393757299 | |
| 1 | 68,775,000 | 68,925,000 | 918 | 937 | 0.836082972 | CCDC14 |
| 1 | 68,850,000 | 69,000,000 | 919 | 779 | 0.535553138 | CCDC14,ROPN1 |
| 1 | 68,925,000 | 69,075,000 | 920 | 624 | 0.000534113 | CCDC14,ROPN1 |
| 1 | 69,000,000 | 69,150,000 | 921 | 609 | 0.203602759 | |
| 1 | 69,075,000 | 69,225,000 | 922 | 576 | 0.749780319 | |
| 1 | 69,150,000 | 69,300,000 | 923 | 948 | -0.46843292 | KALRN |
| 1 | 69,225,000 | 69,375,000 | 924 | 987 | -0.554517956 | KALRN |
| 1 | 69,300,000 | 69,450,000 | 925 | 956 | 0.849088106 | KALRN,ENSBTAG00000046935 |
| 1 | 69,375,000 | 69,525,000 | 926 | 1289 | 0.939412175 | KALRN,ENSBTAG00000046935 |
| 1 | 69,450,000 | 69,600,000 | 927 | 1085 | 0.831806236 | KALRN |
| 1 | 69,525,000 | 69,675,000 | 928 | 894 | 0.972572002 | KALRN |
| 1 | 69,600,000 | 69,750,000 | 929 | 1022 | 1.093072756 | KALRN,UMPS |
| 1 | 69,675,000 | 69,825,000 | 930 | 1260 | 0.881942132 | ITGB5,KALRN,UMPS |
| 1 | 69,750,000 | 69,900,000 | 931 | 1217 | 0.332416089 | ITGB5,UMPS |
| 1 | 69,825,000 | 69,975,000 | 932 | 981 | -0.517716089 | ITGB5,MUC13 |
| 1 | 69,900,000 | 70,050,000 | 933 | 1123 | 0.639768787 | HEG1,MUC13 |
| 1 | 69,975,000 | 70,125,000 | 934 | 948 | 1.212650156 | HEG1 |
| 1 | 70,050,000 | 70,200,000 | 935 | 800 | 0.983027617 | HEG1,SLC12A8 |
| 1 | 70,125,000 | 70,275,000 | 936 | 523 | 0.322140663 | SLC12A8 |
| 1 | 70,200,000 | 70,350,000 | 937 | 154 | 0.182546284 | SLC12A8,ZNF148 |
| 1 | 70,275,000 | 70,425,000 | 938 | 172 | 0.345638107 | ZNF148 |
| 1 | 70,350,000 | 70,500,000 | 939 | 420 | 0.845567713 | ZNF148 |
| 1 | 70,425,000 | 70,575,000 | 940 | 749 | 1.071958798 | OSBPL11,SNX4 |
| 1 | 70,500,000 | 70,650,000 | 941 | 649 | 1.085125363 | OSBPL11,SNX4 |
| 1 | 70,575,000 | 70,725,000 | 942 | 704 | 0.332586755 | OSBPL11,ENSBTAG00000003383 |
| 1 | 70,650,000 | 70,800,000 | 943 | 1006 | -1.356887349 | IQCG,LMLN,OSBPL11,RPL35A,ENSBTAG00000003383 |
| 1 | 70,725,000 | 70,875,000 | 944 | 882 | -3.708541007 | IQCG,LMLN,LRCH3,RPL35A |
| 1 | 70,800,000 | 70,950,000 | 945 | 583 | -4.019802895 | IQCG,LRCH3 |
| 1 | 70,875,000 | 71,025,000 | 946 | 589 | -0.863876041 | FYTTD1,KIAA0226,LRCH3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 70,950,000 | 71,100,000 | 947 | 964 | -1.363009157 | FYTDD1,KIAA0226,MUC20,MUC4 |
| 1 | 71,025,000 | 71,175,000 | 948 | 1200 | -2.61144161 | KIAA0226,MUC20,MUC4 |
| 1 | 71,100,000 | 71,250,000 | 949 | 1224 | -2.997257007 | MUC4,TNK2 |
| 1 | 71,175,000 | 71,325,000 | 950 | 841 | -2.970312842 | TFRC,TNK2 |
| 1 | 71,250,000 | 71,400,000 | 951 | 458 | -1.320045017 | TFRC,ZDHHC19 |
| 1 | 71,325,000 | 71,475,000 | 952 | 478 | 0.707005882 | PCYT1A,SLC51A,ZDHHC19 |
| 1 | 71,400,000 | 71,550,000 | 953 | 451 | 0.856418191 | PCYT1A,SLC51A,TCTEX1D2,UBXN7,ZDHHC19,ENSBTAG0000040161 |
| 1 | 71,475,000 | 71,625,000 | 954 | 442 | 0.455168798 | PCYT1A,TCTEX1D2,UBXN7,ENSBTAG0000040161 |
| 1 | 71,550,000 | 71,700,000 | 955 | 405 | 0.291785462 | MGC152484,RNF168,UBXN7,WDR53 |
| 1 | 71,625,000 | 71,775,000 | 956 | 536 | 0.559334822 | FBXO45,MGC152484,NRROS,RNF168,WDR53 |
| 1 | 71,700,000 | 71,850,000 | 957 | 754 | 0.633489214 | CEP19,FBXO45,NRROS,PIGX,WDR53 |
| 1 | 71,775,000 | 71,925,000 | 958 | 701 | 0.847303116 | CEP19,NRROS,PAK2,PIGX |
| 1 | 71,850,000 | 72,000,000 | 959 | 529 | 0.809514102 | PAK2,PIGX,SENP5 |
| 1 | 71,925,000 | 72,075,000 | 960 | 461 | 0.402503552 | NCBP2,PAK2,PIGZ,SENP5 |
| 1 | 72,000,000 | 72,150,000 | 961 | 426 | 0.344711259 | DLG1,MFI2,NCBP2,PIGZ,SENP5 |
| 1 | 72,075,000 | 72,225,000 | 962 | 326 | 0.524507481 | DLG1,MFI2 |
| 1 | 72,150,000 | 72,300,000 | 963 | 289 | 0.941929616 | DLG1 |
| 1 | 72,225,000 | 72,375,000 | 964 | 323 | 0.875593664 | DLG1 |
| 1 | 72,300,000 | 72,450,000 | 965 | 299 | 1.023335189 | |
| 1 | 72,375,000 | 72,525,000 | 966 | 291 | 1.126794159 | ENSBTAG0000048225 |
| 1 | 72,450,000 | 72,600,000 | 967 | 371 | 1.040697541 | BDH1,ENSBTAG0000048225 |
| 1 | 72,525,000 | 72,675,000 | 968 | 627 | 0.255054695 | APOD,BDH1 |
| 1 | 72,600,000 | 72,750,000 | 969 | 643 | 0.413257774 | APOD,BDH1,PPP1R2 |
| 1 | 72,675,000 | 72,825,000 | 970 | 406 | 0.741228621 | ACAP2,APOD,PPP1R2 |
| 1 | 72,750,000 | 72,900,000 | 971 | 516 | 0.391290375 | ACAP2 |
| 1 | 72,825,000 | 72,975,000 | 972 | 586 | 0.837944371 | ACAP2,XXYLT1 |
| 1 | 72,900,000 | 73,050,000 | 973 | 657 | 0.383695702 | ACAP2,XXYLT1 |
| 1 | 72,975,000 | 73,125,000 | 974 | 1006 | 0.430876193 | XXYLT1 |
| 1 | 73,050,000 | 73,200,000 | 975 | 1100 | 0.325312565 | XXYLT1 |
| 1 | 73,125,000 | 73,275,000 | 976 | 693 | -0.130323992 | |
| 1 | 73,200,000 | 73,350,000 | 977 | 554 | 0.107158478 | |
| 1 | 73,275,000 | 73,425,000 | 978 | 757 | 0.512048568 | |
| 1 | 73,350,000 | 73,500,000 | 979 | 737 | 0.894789928 | FAM43A,LSG1 |
| 1 | 73,425,000 | 73,575,000 | 980 | 465 | 0.727772334 | FAM43A,LSG1,TMEM44 |
| 1 | 73,500,000 | 73,650,000 | 981 | 243 | 0.251263636 | LSG1,TMEM44 |
| 1 | 73,575,000 | 73,725,000 | 982 | 254 | -0.297961159 | ATP13A3 |
| 1 | 73,650,000 | 73,800,000 | 983 | 290 | -1.001523101 | ATP13A3,CPN2,GP5,LRRRC15 |
| 1 | 73,725,000 | 73,875,000 | 984 | 306 | -1.967731664 | ATP13A3,CPN2,GP5,LRRRC15 |
| 1 | 73,800,000 | 73,950,000 | 985 | 432 | -1.859276598 | CPN2 |
| 1 | 73,875,000 | 74,025,000 | 986 | 498 | -1.122009651 | HES1 |
| 1 | 73,950,000 | 74,100,000 | 987 | 333 | -0.545221262 | HES1 |
| 1 | 74,025,000 | 74,175,000 | 988 | 286 | -0.075050811 | |
| 1 | 74,100,000 | 74,250,000 | 989 | 311 | -0.037295221 | |
| 1 | 74,175,000 | 74,325,000 | 990 | 281 | -0.023793823 | |
| 1 | 74,250,000 | 74,400,000 | 991 | 362 | -0.094349248 | OPA1 |
| 1 | 74,325,000 | 74,475,000 | 992 | 302 | 0.272230492 | OPA1 |
| 1 | 74,400,000 | 74,550,000 | 993 | 277 | 1.322558342 | ATP13A4,OPA1 |
| 1 | 74,475,000 | 74,625,000 | 994 | 587 | -0.522798117 | ATP13A4 |
| 1 | 74,550,000 | 74,700,000 | 995 | 813 | -0.548219529 | ATP13A4,ATP13A5 |
| 1 | 74,625,000 | 74,775,000 | 996 | 623 | 0.263264012 | ATP13A4,ATP13A5 |
| 1 | 74,700,000 | 74,850,000 | 997 | 686 | 0.937633674 | ATP13A5,HRASLS |
| 1 | 74,775,000 | 74,925,000 | 998 | 1052 | 1.128020195 | HRASLS |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------|
| 1 | 74,850,000 | 75,000,000 | 999 | 806 | 1.079796826 | |
| 1 | 74,925,000 | 75,075,000 | 1000 | 465 | 0.233890216 | |
| 1 | 75,000,000 | 75,150,000 | 1001 | 872 | 0.631156776 | |
| 1 | 75,075,000 | 75,225,000 | 1002 | 1276 | 0.329273701 | MB21D2 |
| 1 | 75,150,000 | 75,300,000 | 1003 | 1132 | 0.039556075 | MB21D2 |
| 1 | 75,225,000 | 75,375,000 | 1004 | 951 | 0.576538857 | |
| 1 | 75,300,000 | 75,450,000 | 1005 | 952 | -0.772598348 | |
| 1 | 75,375,000 | 75,525,000 | 1006 | 657 | -2.207091862 | |
| 1 | 75,450,000 | 75,600,000 | 1007 | 473 | -0.808354582 | |
| 1 | 75,525,000 | 75,675,000 | 1008 | 489 | -0.755102917 | ENSBTAG00000012413 |
| 1 | 75,600,000 | 75,750,000 | 1009 | 386 | -0.34013077 | ENSBTAG00000012413 |
| 1 | 75,675,000 | 75,825,000 | 1010 | 532 | 0.192602125 | ENSBTAG00000012413 |
| 1 | 75,750,000 | 75,900,000 | 1011 | 503 | 0.351822126 | ENSBTAG00000012413 |
| 1 | 75,825,000 | 75,975,000 | 1012 | 599 | 0.350193047 | ENSBTAG00000012413 |
| 1 | 75,900,000 | 76,050,000 | 1013 | 991 | 0.565249554 | |
| 1 | 75,975,000 | 76,125,000 | 1014 | 988 | 0.493515271 | |
| 1 | 76,050,000 | 76,200,000 | 1015 | 995 | 0.868223265 | |
| 1 | 76,125,000 | 76,275,000 | 1016 | 1008 | 0.863597162 | |
| 1 | 76,200,000 | 76,350,000 | 1017 | 883 | -0.399974128 | |
| 1 | 76,275,000 | 76,425,000 | 1018 | 873 | -0.429390406 | |
| 1 | 76,350,000 | 76,500,000 | 1019 | 1030 | -1.992807813 | |
| 1 | 76,425,000 | 76,575,000 | 1020 | 916 | -1.945231611 | CCDC50 |
| 1 | 76,500,000 | 76,650,000 | 1021 | 481 | 0.533274773 | CCDC50 |
| 1 | 76,575,000 | 76,725,000 | 1022 | 573 | 0.85764835 | CCDC50,OSTN,UTS2B |
| 1 | 76,650,000 | 76,800,000 | 1023 | 842 | 0.778353238 | OSTN,UTS2B |
| 1 | 76,725,000 | 76,875,000 | 1024 | 868 | 0.819750645 | |
| 1 | 76,800,000 | 76,950,000 | 1025 | 930 | 1.000438947 | |
| 1 | 76,875,000 | 77,025,000 | 1026 | 719 | 0.251440815 | GMNC |
| 1 | 76,950,000 | 77,100,000 | 1027 | 477 | -0.387787618 | GMNC |
| 1 | 77,025,000 | 77,175,000 | 1028 | 485 | 0.088325797 | |
| 1 | 77,100,000 | 77,250,000 | 1029 | 521 | 0.677962396 | IL1RAP |
| 1 | 77,175,000 | 77,325,000 | 1030 | 577 | 0.625688887 | IL1RAP |
| 1 | 77,250,000 | 77,400,000 | 1031 | 396 | -0.231163315 | IL1RAP |
| 1 | 77,325,000 | 77,475,000 | 1032 | 654 | -0.573403454 | CLDN16,IL1RAP,TMEM207 |
| 1 | 77,400,000 | 77,550,000 | 1033 | 792 | -1.300989339 | CLDN16,TMEM207 |
| 1 | 77,475,000 | 77,625,000 | 1034 | 691 | 0.082870764 | CLDN1,CLDN16 |
| 1 | 77,550,000 | 77,700,000 | 1035 | 1027 | 1.040616645 | CLDN1 |
| 1 | 77,625,000 | 77,775,000 | 1036 | 910 | 1.034463618 | LEPREL1 |
| 1 | 77,700,000 | 77,850,000 | 1037 | 513 | 0.241543704 | LEPREL1 |
| 1 | 77,775,000 | 77,925,000 | 1038 | 453 | -1.683320119 | LEPREL1 |
| 1 | 77,850,000 | 78,000,000 | 1039 | 656 | -1.852707409 | LEPREL1 |
| 1 | 77,925,000 | 78,075,000 | 1040 | 644 | -0.936749748 | LEPREL1,TP63 |
| 1 | 78,000,000 | 78,150,000 | 1041 | 687 | -0.325546084 | TP63 |
| 1 | 78,075,000 | 78,225,000 | 1042 | 945 | 0.177080401 | TP63 |
| 1 | 78,150,000 | 78,300,000 | 1043 | 860 | 0.774260882 | TP63 |
| 1 | 78,225,000 | 78,375,000 | 1044 | 724 | 0.281010046 | TP63 |
| 1 | 78,300,000 | 78,450,000 | 1045 | 846 | 0.02627822 | |
| 1 | 78,375,000 | 78,525,000 | 1046 | 832 | -0.481696919 | |
| 1 | 78,450,000 | 78,600,000 | 1047 | 529 | -0.353680707 | |
| 1 | 78,525,000 | 78,675,000 | 1048 | 492 | 1.127416138 | TPRG1 |
| 1 | 78,600,000 | 78,750,000 | 1049 | 783 | 0.670752907 | TPRG1 |
| 1 | 78,675,000 | 78,825,000 | 1050 | 646 | -0.05068683 | TPRG1 |
| 1 | 78,750,000 | 78,900,000 | 1051 | 315 | 0.027657153 | TPRG1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 1 | 78,825,000 | 78,975,000 | 1052 | 317 | 0.773165588 | |
| 1 | 78,900,000 | 79,050,000 | 1053 | 329 | 0.669113017 | LPP |
| 1 | 78,975,000 | 79,125,000 | 1054 | 329 | 0.300275928 | LPP |
| 1 | 79,050,000 | 79,200,000 | 1055 | 443 | 0.521176369 | LPP |
| 1 | 79,125,000 | 79,275,000 | 1056 | 481 | 0.399140202 | LPP |
| 1 | 79,200,000 | 79,350,000 | 1057 | 501 | 0.330143836 | LPP |
| 1 | 79,275,000 | 79,425,000 | 1058 | 598 | 0.434580653 | LPP |
| 1 | 79,350,000 | 79,500,000 | 1059 | 584 | 0.403646638 | LPP |
| 1 | 79,425,000 | 79,575,000 | 1060 | 615 | 0.185586068 | LPP |
| 1 | 79,500,000 | 79,650,000 | 1061 | 637 | -0.31882087 | LPP |
| 1 | 79,575,000 | 79,725,000 | 1062 | 677 | 0.484320555 | LPP |
| 1 | 79,650,000 | 79,800,000 | 1063 | 784 | 0.650911082 | LPP |
| 1 | 79,725,000 | 79,875,000 | 1064 | 1017 | 0.780169165 | LPP |
| 1 | 79,800,000 | 79,950,000 | 1065 | 1149 | 1.03349501 | |
| 1 | 79,875,000 | 80,025,000 | 1066 | 886 | 0.903964417 | |
| 1 | 79,950,000 | 80,100,000 | 1067 | 989 | 0.608853309 | |
| 1 | 80,025,000 | 80,175,000 | 1068 | 1333 | 0.835736772 | |
| 1 | 80,100,000 | 80,250,000 | 1069 | 992 | 1.054696051 | BCL6,RTP2 |
| 1 | 80,175,000 | 80,325,000 | 1070 | 944 | 1.019822398 | BCL6,RTP2,SST |
| 1 | 80,250,000 | 80,400,000 | 1071 | 1153 | 1.154509872 | SST |
| 1 | 80,325,000 | 80,475,000 | 1072 | 921 | 1.08032928 | |
| 1 | 80,400,000 | 80,550,000 | 1073 | 715 | 0.677000206 | RTP4 |
| 1 | 80,475,000 | 80,625,000 | 1074 | 920 | 0.357956578 | MASP1,RTP4 |
| 1 | 80,550,000 | 80,700,000 | 1075 | 1108 | -0.493325404 | MASP1,RTP1 |
| 1 | 80,625,000 | 80,775,000 | 1076 | 861 | -0.265224567 | MASP1,RTP1 |
| 1 | 80,700,000 | 80,850,000 | 1077 | 797 | 1.089504718 | ST6GAL1 |
| 1 | 80,775,000 | 80,925,000 | 1078 | 686 | 0.886780564 | ST6GAL1 |
| 1 | 80,850,000 | 81,000,000 | 1079 | 542 | 0.328701685 | |
| 1 | 80,925,000 | 81,075,000 | 1080 | 579 | 0.044338985 | ADIPOQ,EIF4A2,RFC4 |
| 1 | 81,000,000 | 81,150,000 | 1081 | 717 | 0.402947185 | ADIPOQ,EIF4A2,HRG,KNG1,RFC4 |
| 1 | 81,075,000 | 81,225,000 | 1082 | 650 | 0.904920805 | AHSG,FETUB,HRG,KNG1 |
| 1 | 81,150,000 | 81,300,000 | 1083 | 513 | 0.422941222 | AHSG,CRYGS,DNAJB11,FETUB,TBCCD1 |
| 1 | 81,225,000 | 81,375,000 | 1084 | 553 | -0.749718099 | CRYGS,DNAJB11,TBCCD1 |
| 1 | 81,300,000 | 81,450,000 | 1085 | 523 | -0.871689714 | |
| 1 | 81,375,000 | 81,525,000 | 1086 | 427 | -0.772820492 | DGKG |
| 1 | 81,450,000 | 81,600,000 | 1087 | 431 | 0.468361844 | DGKG |
| 1 | 81,525,000 | 81,675,000 | 1088 | 574 | 0.750902362 | DGKG |
| 1 | 81,600,000 | 81,750,000 | 1089 | 599 | 0.283775412 | DGKG,ETV5 |
| 1 | 81,675,000 | 81,825,000 | 1090 | 524 | 0.136630595 | DGKG,ETV5 |
| 1 | 81,750,000 | 81,900,000 | 1091 | 409 | 0.191836344 | ETV5,TRA2B,ENSBTAG00000011305,ENSBTAG0000004784 1 |
| 1 | 81,825,000 | 81,975,000 | 1092 | 459 | 0.71261104 | TRA2B,ENSBTAG00000011305,ENSBTAG00000047841 |
| 1 | 81,900,000 | 82,050,000 | 1093 | 461 | 0.62308082 | IGF2BP2 |
| 1 | 81,975,000 | 82,125,000 | 1094 | 319 | 0.511986364 | IGF2BP2 |
| 1 | 82,050,000 | 82,200,000 | 1095 | 290 | 0.613248964 | IGF2BP2,SEN2 |
| 1 | 82,125,000 | 82,275,000 | 1096 | 390 | 0.453007489 | IGF2BP2,LIPH,SEN2 |
| 1 | 82,200,000 | 82,350,000 | 1097 | 488 | 0.640328152 | LIPH,MAP3K13,SEN2,TMEM41A |
| 1 | 82,275,000 | 82,425,000 | 1098 | 534 | 0.922818217 | LIPH,MAP3K13,TMEM41A |
| 1 | 82,350,000 | 82,500,000 | 1099 | 571 | 0.866986126 | EHHADH,MAP3K13 |
| 1 | 82,425,000 | 82,575,000 | 1100 | 703 | 0.679018603 | C3orf70,EHHADH,MAP3K13,ENSBTAG00000007296 |
| 1 | 82,500,000 | 82,650,000 | 1101 | 624 | 0.555500763 | C3orf70,EHHADH,ENSBTAG00000007296 |
| 1 | 82,575,000 | 82,725,000 | 1102 | 478 | 0.324445544 | C3orf70,VPS8 |
| 1 | 82,650,000 | 82,800,000 | 1103 | 680 | 0.828431396 | C3orf70,VPS8 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 1 | 82,725,000 | 82,875,000 | 1104 | 812 | 1.123373961 | VPS8 |
| 1 | 82,800,000 | 82,950,000 | 1105 | 1060 | 1.292931351 | VPS8 |
| 1 | 82,875,000 | 83,025,000 | 1106 | 857 | 1.297623418 | VPS8 |
| 1 | 82,950,000 | 83,100,000 | 1107 | 494 | 0.918657601 | MAGEF1,VPS8 |
| 1 | 83,025,000 | 83,175,000 | 1108 | 442 | 1.089086437 | MAGEF1 |
| 1 | 83,100,000 | 83,250,000 | 1109 | 230 | 1.303172013 | EPHB3 |
| 1 | 83,175,000 | 83,325,000 | 1110 | 227 | 1.173214579 | EPHB3,ENSBTAG00000008343 |
| 1 | 83,250,000 | 83,400,000 | 1111 | 382 | 1.210084023 | GTF2F1,ENSBTAG00000008343 |
| 1 | 83,325,000 | 83,475,000 | 1112 | 453 | 1.155216793 | CHRD,CLCN2,EIF4G1,FAM131A,GTF2F1,POLR2H,THPO |
| 1 | 83,400,000 | 83,550,000 | 1113 | 365 | 0.729097797 | ALG3,CAMK2N2,CHRD,CLCN2,ECE2,EIF4G1,FAM131A,POLR2H,PSMD2,THPO,VWA5B2 |
| 1 | 83,475,000 | 83,625,000 | 1114 | 248 | 0.561806723 | ABCF3,ALG3,AP2M1,CAMK2N2,DVL3,ECE2,EIF2B5,EIF4G1,PSMD2,VWA5B2 |
| 1 | 83,550,000 | 83,700,000 | 1115 | 225 | 0.769459445 | ABCF3,AP2M1,DVL3,EIF2B5,HTR3C,HTR3E,VWA5B2 |
| 1 | 83,625,000 | 83,775,000 | 1116 | 374 | 0.330702671 | ABCC5,EIF2B5,HTR3C,HTR3E |
| 1 | 83,700,000 | 83,850,000 | 1117 | 368 | -0.019436263 | ABCC5,HTR3C |
| 1 | 83,775,000 | 83,925,000 | 1118 | 273 | -0.46746705 | ABCC5,MAP6D1,PARL |
| 1 | 83,850,000 | 84,000,000 | 1119 | 374 | -0.408390291 | MAP6D1,PARL,YEATS2 |
| 1 | 83,925,000 | 84,075,000 | 1120 | 334 | -0.886797287 | KLHL24,MAP6D1,YEATS2,ENSBTAG00000014449 |
| 1 | 84,000,000 | 84,150,000 | 1121 | 244 | -1.510713985 | KLHL24,YEATS2,ENSBTAG00000014449 |
| 1 | 84,075,000 | 84,225,000 | 1122 | 508 | -3.954958092 | KLHL24,KLHL6 |
| 1 | 84,150,000 | 84,300,000 | 1123 | 810 | -2.238778549 | KLHL6 |
| 1 | 84,225,000 | 84,375,000 | 1124 | 962 | -0.188743278 | B3GNT5,MCF2L2 |
| 1 | 84,300,000 | 84,450,000 | 1125 | 668 | 0.047987824 | B3GNT5,MCF2L2 |
| 1 | 84,375,000 | 84,525,000 | 1126 | 346 | 0.374158911 | B3GNT5,MCF2L2 |
| 1 | 84,450,000 | 84,600,000 | 1127 | 366 | 0.171934814 | LAMP3,MCCC1,MCF2L2 |
| 1 | 84,525,000 | 84,675,000 | 1128 | 341 | 0.070713524 | DCUN1D1,LAMP3,MCCC1,MCF2L2 |
| 1 | 84,600,000 | 84,750,000 | 1129 | 350 | 0.056310424 | ATP11B,DCUN1D1,MCCC1 |
| 1 | 84,675,000 | 84,825,000 | 1130 | 324 | -0.697893232 | ATP11B,DCUN1D1 |
| 1 | 84,750,000 | 84,900,000 | 1131 | 424 | -0.52799813 | ATP11B |
| 1 | 84,825,000 | 84,975,000 | 1132 | 481 | -0.735467326 | |
| 1 | 84,900,000 | 85,050,000 | 1133 | 367 | -1.004484195 | |
| 1 | 84,975,000 | 85,125,000 | 1134 | 298 | -0.396929009 | |
| 1 | 85,050,000 | 85,200,000 | 1135 | 532 | -0.608132591 | |
| 1 | 85,125,000 | 85,275,000 | 1136 | 869 | 0.221755215 | |
| 1 | 85,200,000 | 85,350,000 | 1137 | 675 | 0.582111856 | |
| 1 | 85,275,000 | 85,425,000 | 1138 | 395 | 0.735110497 | |
| 1 | 85,350,000 | 85,500,000 | 1139 | 336 | 1.146177878 | |
| 1 | 85,425,000 | 85,575,000 | 1140 | 251 | 1.216501833 | |
| 1 | 85,500,000 | 85,650,000 | 1141 | 543 | 1.19478189 | |
| 1 | 85,575,000 | 85,725,000 | 1142 | 860 | 1.117935458 | |
| 1 | 85,650,000 | 85,800,000 | 1143 | 796 | 0.697179713 | |
| 1 | 85,725,000 | 85,875,000 | 1144 | 635 | 0.228025738 | |
| 1 | 85,800,000 | 85,950,000 | 1145 | 565 | 0.69424731 | SOX2 |
| 1 | 85,875,000 | 86,025,000 | 1146 | 478 | -0.165929652 | SOX2 |
| 1 | 85,950,000 | 86,100,000 | 1147 | 337 | -1.015591622 | |
| 1 | 86,025,000 | 86,175,000 | 1148 | 294 | 0.205232346 | |
| 1 | 86,100,000 | 86,250,000 | 1149 | 301 | 1.12860085 | |
| 1 | 86,175,000 | 86,325,000 | 1150 | 273 | 1.372825911 | |
| 1 | 86,250,000 | 86,400,000 | 1151 | 342 | 1.454013755 | |
| 1 | 86,325,000 | 86,475,000 | 1152 | 749 | 1.348332836 | |
| 1 | 86,400,000 | 86,550,000 | 1153 | 660 | 1.201893663 | |
| 1 | 86,475,000 | 86,625,000 | 1154 | 280 | 1.118434367 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------|
| 1 | 86,550,000 | 86,700,000 | 1155 | 260 | 1.123165951 | DNAJC19,FXR1 |
| 1 | 86,625,000 | 86,775,000 | 1156 | 278 | 1.072740233 | DNAJC19,FXR1 |
| 1 | 86,700,000 | 86,850,000 | 1157 | 418 | 0.899884054 | FXR1 |
| 1 | 86,775,000 | 86,925,000 | 1158 | 503 | 0.688363582 | |
| 1 | 86,850,000 | 87,000,000 | 1159 | 311 | 0.464509731 | CCDC39 |
| 1 | 86,925,000 | 87,075,000 | 1160 | 257 | 0.300053614 | CCDC39,TTC14 |
| 1 | 87,000,000 | 87,150,000 | 1161 | 382 | 0.574096587 | CCDC39,TTC14 |
| 1 | 87,075,000 | 87,225,000 | 1162 | 354 | -0.391737553 | |
| 1 | 87,150,000 | 87,300,000 | 1163 | 379 | -2.128708275 | |
| 1 | 87,225,000 | 87,375,000 | 1164 | 555 | -1.019217881 | |
| 1 | 87,300,000 | 87,450,000 | 1165 | 813 | -2.145914287 | |
| 1 | 87,375,000 | 87,525,000 | 1166 | 990 | -1.83507428 | |
| 1 | 87,450,000 | 87,600,000 | 1167 | 820 | -0.197787895 | |
| 1 | 87,525,000 | 87,675,000 | 1168 | 557 | 0.654704599 | |
| 1 | 87,600,000 | 87,750,000 | 1169 | 451 | -0.205326209 | |
| 1 | 87,675,000 | 87,825,000 | 1170 | 269 | -1.955130502 | PEX5L |
| 1 | 87,750,000 | 87,900,000 | 1171 | 457 | -0.639266449 | PEX5L |
| 1 | 87,825,000 | 87,975,000 | 1172 | 641 | -0.304221779 | PEX5L,USP13 |
| 1 | 87,900,000 | 88,050,000 | 1173 | 557 | -0.060845562 | PEX5L,USP13 |
| 1 | 87,975,000 | 88,125,000 | 1174 | 452 | 0.159879541 | MRPL47,NDUFB5,USP13 |
| 1 | 88,050,000 | 88,200,000 | 1175 | 309 | 0.129718564 | ACTL6A,MRPL47,NDUFB5,USP13 |
| 1 | 88,125,000 | 88,275,000 | 1176 | 453 | -0.631128007 | ACTL6A,GNB4,MFN1,MRPL47 |
| 1 | 88,200,000 | 88,350,000 | 1177 | 437 | -1.129815854 | GNB4,MFN1 |
| 1 | 88,275,000 | 88,425,000 | 1178 | 439 | -0.32560752 | MFN1,ZNF639 |
| 1 | 88,350,000 | 88,500,000 | 1179 | 429 | -0.108975326 | KCNMB3,MFN1,ZNF639 |
| 1 | 88,425,000 | 88,575,000 | 1180 | 200 | 0.072758998 | KCNMB3,PIK3CA |
| 1 | 88,500,000 | 88,650,000 | 1181 | 326 | 1.174378194 | PIK3CA,ZMAT3 |
| 1 | 88,575,000 | 88,725,000 | 1182 | 807 | 0.885187097 | ZMAT3 |
| 1 | 88,650,000 | 88,800,000 | 1183 | 848 | 0.645528818 | KCNMB3,ZMAT3 |
| 1 | 88,725,000 | 88,875,000 | 1184 | 612 | 0.457067023 | KCNMB3 |
| 1 | 88,800,000 | 88,950,000 | 1185 | 533 | 0.182865705 | KCNMB3 |
| 1 | 88,875,000 | 89,025,000 | 1186 | 345 | -1.074127482 | |
| 1 | 88,950,000 | 89,100,000 | 1187 | 241 | -1.571052184 | |
| 1 | 89,025,000 | 89,175,000 | 1188 | 408 | -2.899753608 | |
| 1 | 89,100,000 | 89,250,000 | 1189 | 896 | -0.807033394 | |
| 1 | 89,175,000 | 89,325,000 | 1190 | 1005 | 0.143735839 | |
| 1 | 89,250,000 | 89,400,000 | 1191 | 805 | -1.635457165 | |
| 1 | 89,325,000 | 89,475,000 | 1192 | 624 | -2.147451252 | |
| 1 | 89,400,000 | 89,550,000 | 1193 | 632 | -0.718777236 | |
| 1 | 89,475,000 | 89,625,000 | 1194 | 992 | -2.183226741 | |
| 1 | 89,550,000 | 89,700,000 | 1195 | 798 | -2.379794547 | |
| 1 | 89,625,000 | 89,775,000 | 1196 | 457 | -0.157063398 | |
| 1 | 89,700,000 | 89,850,000 | 1197 | 794 | -0.204858158 | |
| 1 | 89,775,000 | 89,925,000 | 1198 | 730 | -0.184669254 | |
| 1 | 89,850,000 | 90,000,000 | 1199 | 698 | 0.933074566 | |
| 1 | 89,925,000 | 90,075,000 | 1200 | 768 | 0.987537642 | |
| 1 | 90,000,000 | 90,150,000 | 1201 | 550 | 0.093638325 | |
| 1 | 90,075,000 | 90,225,000 | 1202 | 687 | 0.069688308 | |
| 1 | 90,150,000 | 90,300,000 | 1203 | 692 | 0.486417108 | |
| 1 | 90,225,000 | 90,375,000 | 1204 | 471 | 0.49613751 | |
| 1 | 90,300,000 | 90,450,000 | 1205 | 431 | 0.058823037 | |
| 1 | 90,375,000 | 90,525,000 | 1206 | 455 | 0.338465495 | TBL1XR1 |
| 1 | 90,450,000 | 90,600,000 | 1207 | 536 | 0.982630414 | TBL1XR1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------|
| 1 | 90,525,000 | 90,675,000 | 1208 | 651 | 0.786577064 | TBL1XR1 |
| 1 | 90,600,000 | 90,750,000 | 1209 | 468 | -0.401715424 | TBL1XR1 |
| 1 | 90,675,000 | 90,825,000 | 1210 | 363 | -0.084602011 | |
| 1 | 90,750,000 | 90,900,000 | 1211 | 462 | 0.664010216 | |
| 1 | 90,825,000 | 90,975,000 | 1212 | 631 | -0.606611765 | |
| 1 | 90,900,000 | 91,050,000 | 1213 | 605 | -0.933441204 | |
| 1 | 90,975,000 | 91,125,000 | 1214 | 572 | 0.984705124 | |
| 1 | 91,050,000 | 91,200,000 | 1215 | 565 | 0.729196826 | |
| 1 | 91,125,000 | 91,275,000 | 1216 | 323 | 0.105340208 | |
| 1 | 91,200,000 | 91,350,000 | 1217 | 268 | -0.257067043 | |
| 1 | 91,275,000 | 91,425,000 | 1218 | 426 | -0.40326688 | |
| 1 | 91,350,000 | 91,500,000 | 1219 | 710 | -1.480340093 | |
| 1 | 91,425,000 | 91,575,000 | 1220 | 984 | -1.791180297 | |
| 1 | 91,500,000 | 91,650,000 | 1221 | 996 | -1.481596242 | |
| 1 | 91,575,000 | 91,725,000 | 1222 | 717 | -0.6677812 | |
| 1 | 91,650,000 | 91,800,000 | 1223 | 584 | 0.647215049 | |
| 1 | 91,725,000 | 91,875,000 | 1224 | 1172 | 0.694680251 | |
| 1 | 91,800,000 | 91,950,000 | 1225 | 1129 | 0.598876409 | |
| 1 | 91,875,000 | 92,025,000 | 1226 | 877 | 0.799407077 | |
| 1 | 91,950,000 | 92,100,000 | 1227 | 1277 | 0.189877324 | |
| 1 | 92,025,000 | 92,175,000 | 1228 | 1218 | -0.124844536 | |
| 1 | 92,100,000 | 92,250,000 | 1229 | 1200 | -1.254661737 | |
| 1 | 92,175,000 | 92,325,000 | 1230 | 1234 | -1.963658035 | |
| 1 | 92,250,000 | 92,400,000 | 1231 | 1281 | -0.343194276 | |
| 1 | 92,325,000 | 92,475,000 | 1232 | 1269 | 0.398487834 | |
| 1 | 92,400,000 | 92,550,000 | 1233 | 1036 | 0.99707238 | |
| 1 | 92,475,000 | 92,625,000 | 1234 | 1049 | 0.419265282 | |
| 1 | 92,550,000 | 92,700,000 | 1235 | 955 | 0.180221897 | |
| 1 | 92,625,000 | 92,775,000 | 1236 | 525 | 0.192399501 | |
| 1 | 92,700,000 | 92,850,000 | 1237 | 287 | -1.004676387 | |
| 1 | 92,775,000 | 92,925,000 | 1238 | 408 | -1.326169662 | |
| 1 | 92,850,000 | 93,000,000 | 1239 | 539 | -0.64080869 | |
| 1 | 92,925,000 | 93,075,000 | 1240 | 581 | 0.004356058 | |
| 1 | 93,000,000 | 93,150,000 | 1241 | 559 | 0.337767079 | |
| 1 | 93,075,000 | 93,225,000 | 1242 | 577 | 1.013760642 | |
| 1 | 93,150,000 | 93,300,000 | 1243 | 644 | 0.526784047 | |
| 1 | 93,225,000 | 93,375,000 | 1244 | 971 | 0.507118229 | |
| 1 | 93,300,000 | 93,450,000 | 1245 | 855 | 0.753379182 | |
| 1 | 93,375,000 | 93,525,000 | 1246 | 458 | 0.921024956 | |
| 1 | 93,450,000 | 93,600,000 | 1247 | 716 | -0.893920359 | |
| 1 | 93,525,000 | 93,675,000 | 1248 | 855 | -0.758218176 | NLGN1 |
| 1 | 93,600,000 | 93,750,000 | 1249 | 746 | -0.692159607 | NLGN1 |
| 1 | 93,675,000 | 93,825,000 | 1250 | 657 | -3.283283057 | |
| 1 | 93,750,000 | 93,900,000 | 1251 | 679 | -6.440209307 | |
| 1 | 93,825,000 | 93,975,000 | 1252 | 888 | -1.468744431 | |
| 1 | 93,900,000 | 94,050,000 | 1253 | 908 | 1.126650212 | |
| 1 | 93,975,000 | 94,125,000 | 1254 | 998 | 0.627031079 | |
| 1 | 94,050,000 | 94,200,000 | 1255 | 877 | -0.211312721 | |
| 1 | 94,125,000 | 94,275,000 | 1256 | 538 | -0.309439259 | |
| 1 | 94,200,000 | 94,350,000 | 1257 | 619 | 0.587827922 | |
| 1 | 94,275,000 | 94,425,000 | 1258 | 1002 | 0.401806442 | |
| 1 | 94,350,000 | 94,500,000 | 1259 | 1106 | 0.086866209 | |
| 1 | 94,425,000 | 94,575,000 | 1260 | 756 | 0.111460607 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------------------------|
| 1 | 94,500,000 | 94,650,000 | 1261 | 779 | 0.772801499 | |
| 1 | 94,575,000 | 94,725,000 | 1262 | 799 | 0.188146898 | |
| 1 | 94,650,000 | 94,800,000 | 1263 | 616 | 0.165314699 | |
| 1 | 94,725,000 | 94,875,000 | 1264 | 710 | -0.370098222 | |
| 1 | 94,800,000 | 94,950,000 | 1265 | 694 | -0.924120805 | |
| 1 | 94,875,000 | 95,025,000 | 1266 | 490 | 0.714047066 | SPATA16 |
| 1 | 94,950,000 | 95,100,000 | 1267 | 649 | 0.46065551 | SPATA16 |
| 1 | 95,025,000 | 95,175,000 | 1268 | 1482 | 0.355473695 | GPX5,GPX6,SPATA16 |
| 1 | 95,100,000 | 95,250,000 | 1269 | 1616 | 0.336383553 | GPX5,GPX6,SPATA16,ZSCAN23 |
| 1 | 95,175,000 | 95,325,000 | 1270 | 1080 | -0.07168793 | SPATA16,ZSCAN23 |
| 1 | 95,250,000 | 95,400,000 | 1271 | 854 | 0.167364627 | SPATA16 |
| 1 | 95,325,000 | 95,475,000 | 1272 | 590 | 0.486819274 | SPATA16 |
| 1 | 95,400,000 | 95,550,000 | 1273 | 367 | -0.139682167 | ECT2 |
| 1 | 95,475,000 | 95,625,000 | 1274 | 272 | 0.103050268 | ECT2,NCEH1 |
| 1 | 95,550,000 | 95,700,000 | 1275 | 425 | 0.954149581 | NCEH1 |
| 1 | 95,625,000 | 95,775,000 | 1276 | 648 | 0.935809976 | NCEH1,TNFSF10 |
| 1 | 95,700,000 | 95,850,000 | 1277 | 786 | 0.593949272 | GHSR,TNFSF10 |
| 1 | 95,775,000 | 95,925,000 | 1278 | 664 | 0.167165736 | FNDC3B,GHSR |
| 1 | 95,850,000 | 96,000,000 | 1279 | 479 | -0.394455857 | FNDC3B |
| 1 | 95,925,000 | 96,075,000 | 1280 | 413 | 0.053513424 | FNDC3B |
| 1 | 96,000,000 | 96,150,000 | 1281 | 341 | 0.521926643 | FNDC3B |
| 1 | 96,075,000 | 96,225,000 | 1282 | 496 | 0.914928358 | FNDC3B |
| 1 | 96,150,000 | 96,300,000 | 1283 | 531 | 0.308075057 | FNDC3B |
| 1 | 96,225,000 | 96,375,000 | 1284 | 469 | -1.202463954 | |
| 1 | 96,300,000 | 96,450,000 | 1285 | 517 | -0.636772751 | TMEM212 |
| 1 | 96,375,000 | 96,525,000 | 1286 | 611 | -1.050283517 | PRKCSH,TMEM212 |
| 1 | 96,450,000 | 96,600,000 | 1287 | 749 | -0.90408841 | PRKCSH |
| 1 | 96,525,000 | 96,675,000 | 1288 | 733 | 0.607389334 | PRKCSH |
| 1 | 96,600,000 | 96,750,000 | 1289 | 533 | 0.865635006 | PRKCSH |
| 1 | 96,675,000 | 96,825,000 | 1290 | 533 | -0.141229262 | PRKCSH,TNIK |
| 1 | 96,750,000 | 96,900,000 | 1291 | 558 | -0.051535669 | TNIK |
| 1 | 96,825,000 | 96,975,000 | 1292 | 774 | 1.020965402 | TNIK,ENSBTAG00000031795 |
| 1 | 96,900,000 | 97,050,000 | 1293 | 1002 | 1.071338008 | TNIK,ENSBTAG00000031795 |
| 1 | 96,975,000 | 97,125,000 | 1294 | 1187 | 0.659521049 | TNIK |
| 1 | 97,050,000 | 97,200,000 | 1295 | 1130 | 0.682717293 | TNIK |
| 1 | 97,125,000 | 97,275,000 | 1296 | 1061 | 0.510977761 | SLC2A2,TNIK |
| 1 | 97,200,000 | 97,350,000 | 1297 | 1408 | -1.975993808 | EIF5A2,RPL22L1,SLC2A2 |
| 1 | 97,275,000 | 97,425,000 | 1298 | 1382 | -2.148044144 | EIF5A2,RPL22L1 |
| 1 | 97,350,000 | 97,500,000 | 1299 | 1282 | 0.611808491 | |
| 1 | 97,425,000 | 97,575,000 | 1300 | 1287 | 0.32576728 | |
| 1 | 97,500,000 | 97,650,000 | 1301 | 1004 | 0.268279254 | |
| 1 | 97,575,000 | 97,725,000 | 1302 | 851 | 0.149616682 | SLC7A14 |
| 1 | 97,650,000 | 97,800,000 | 1303 | 666 | 0.215129255 | CLDN11,SLC7A14 |
| 1 | 97,725,000 | 97,875,000 | 1304 | 527 | 0.807504635 | CLDN11,SKIL,SLC7A14 |
| 1 | 97,800,000 | 97,950,000 | 1305 | 837 | -0.915708503 | CLDN11,PRKCI,SKIL |
| 1 | 97,875,000 | 98,025,000 | 1306 | 795 | -1.248598603 | PHC3,PRKCI |
| 1 | 97,950,000 | 98,100,000 | 1307 | 765 | 0.439996515 | GPR160,PHC3,PRKCI |
| 1 | 98,025,000 | 98,175,000 | 1308 | 1109 | 0.730302244 | GPR160,PHC3,ENSBTAG00000045991 |
| 1 | 98,100,000 | 98,250,000 | 1309 | 1109 | 0.8742842 | SAMD7,SEC62,ENSBTAG00000045991 |
| 1 | 98,175,000 | 98,325,000 | 1310 | 829 | 0.839889277 | LRR31,SAMD7,SEC62 |
| 1 | 98,250,000 | 98,400,000 | 1311 | 674 | 0.726094922 | ARPM1,LRR31,LRR34,LRR1Q4,MYNN,SAMD7 |
| 1 | 98,325,000 | 98,475,000 | 1312 | 487 | 0.849374221 | ARPM1,LRR31,LRR34,LRR1Q4,MYNN |
| 1 | 98,400,000 | 98,550,000 | 1313 | 686 | 0.183226251 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 1 | 98,475,000 | 98,625,000 | 1314 | 862 | 0.090102869 | |
| 1 | 98,550,000 | 98,700,000 | 1315 | 1036 | 0.006554497 | |
| 1 | 98,625,000 | 98,775,000 | 1316 | 922 | -0.487614909 | |
| 1 | 98,700,000 | 98,850,000 | 1317 | 655 | -0.616380497 | ENSBTAG00000047144 |
| 1 | 98,775,000 | 98,925,000 | 1318 | 667 | 0.072422318 | ENSBTAG00000047144 |
| 1 | 98,850,000 | 99,000,000 | 1319 | 506 | 0.55910695 | |
| 1 | 98,925,000 | 99,075,000 | 1320 | 386 | 0.09518301 | |
| 1 | 99,000,000 | 99,150,000 | 1321 | 405 | -3.794643294 | MECOM |
| 1 | 99,075,000 | 99,225,000 | 1322 | 496 | -2.936397165 | MECOM |
| 1 | 99,150,000 | 99,300,000 | 1323 | 674 | 0.347255509 | |
| 1 | 99,225,000 | 99,375,000 | 1324 | 747 | 0.196926638 | |
| 1 | 99,300,000 | 99,450,000 | 1325 | 534 | -1.000070838 | |
| 1 | 99,375,000 | 99,525,000 | 1326 | 401 | -0.518022886 | |
| 1 | 99,450,000 | 99,600,000 | 1327 | 424 | -1.275854928 | |
| 1 | 99,525,000 | 99,675,000 | 1328 | 590 | -0.442100035 | |
| 1 | 99,600,000 | 99,750,000 | 1329 | 712 | 0.49270547 | |
| 1 | 99,675,000 | 99,825,000 | 1330 | 529 | 0.494331136 | |
| 1 | 99,750,000 | 99,900,000 | 1331 | 295 | 0.062400424 | |
| 1 | 99,825,000 | 99,975,000 | 1332 | 435 | 0.882147284 | |
| 1 | 99,900,000 | 100,050,000 | 1333 | 747 | 0.709899261 | |
| 1 | 99,975,000 | 100,125,000 | 1334 | 819 | 0.200745492 | |
| 1 | 100,050,000 | 100,200,000 | 1335 | 659 | -0.29835311 | GOLIM4 |
| 1 | 100,125,000 | 100,275,000 | 1336 | 556 | 0.111181635 | GOLIM4 |
| 1 | 100,200,000 | 100,350,000 | 1337 | 753 | 0.986938501 | GOLIM4,MGC133804 |
| 1 | 100,275,000 | 100,425,000 | 1338 | 746 | 0.897727034 | MGC133804 |
| 1 | 100,350,000 | 100,500,000 | 1339 | 560 | 0.707308114 | MGC133804,SERPINI1 |
| 1 | 100,425,000 | 100,575,000 | 1340 | 479 | 0.883782967 | PDCD10,SERPINI1 |
| 1 | 100,500,000 | 100,650,000 | 1341 | 363 | 0.564113171 | MGC151671,PDCD10,SERPINI1 |
| 1 | 100,575,000 | 100,725,000 | 1342 | 482 | -1.52831413 | MGC151671,PDCD10,WDR49 |
| 1 | 100,650,000 | 100,800,000 | 1343 | 758 | -1.121574786 | MGC151671,SERPINI2,WDR49 |
| 1 | 100,725,000 | 100,875,000 | 1344 | 1182 | -0.001567222 | SERPINI2,WDR49 |
| 1 | 100,800,000 | 100,950,000 | 1345 | 1062 | -0.023836623 | SERPINI2,ZBBX |
| 1 | 100,875,000 | 101,025,000 | 1346 | 858 | 0.258381144 | ZBBX |
| 1 | 100,950,000 | 101,100,000 | 1347 | 1099 | 0.482480576 | ZBBX |
| 1 | 101,025,000 | 101,175,000 | 1348 | 1248 | 0.650198972 | |
| 1 | 101,100,000 | 101,250,000 | 1349 | 918 | 0.732797561 | |
| 1 | 101,175,000 | 101,325,000 | 1350 | 1097 | 0.920697134 | |
| 1 | 101,250,000 | 101,400,000 | 1351 | 1543 | 0.600160631 | |
| 1 | 101,325,000 | 101,475,000 | 1352 | 1744 | 0.697138988 | |
| 1 | 101,400,000 | 101,550,000 | 1353 | 2014 | 1.13173352 | |
| 1 | 101,475,000 | 101,625,000 | 1354 | 1847 | 1.172268475 | |
| 1 | 101,550,000 | 101,700,000 | 1355 | 2101 | 1.196715975 | |
| 1 | 101,625,000 | 101,775,000 | 1356 | 2137 | 1.155013533 | |
| 1 | 101,700,000 | 101,850,000 | 1357 | 1608 | 0.808419472 | |
| 1 | 101,775,000 | 101,925,000 | 1358 | 1530 | 0.347306253 | |
| 1 | 101,850,000 | 102,000,000 | 1359 | 2116 | 0.595458803 | |
| 1 | 101,925,000 | 102,075,000 | 1360 | 2306 | 0.049357829 | |
| 1 | 102,000,000 | 102,150,000 | 1361 | 1747 | -0.103661465 | |
| 1 | 102,075,000 | 102,225,000 | 1362 | 1658 | 0.940208414 | |
| 1 | 102,150,000 | 102,300,000 | 1363 | 1646 | 0.917701778 | |
| 1 | 102,225,000 | 102,375,000 | 1364 | 1314 | 0.44448708 | BCHE |
| 1 | 102,300,000 | 102,450,000 | 1365 | 1268 | -0.075807898 | BCHE |
| 1 | 102,375,000 | 102,525,000 | 1366 | 1431 | 0.456115444 | BCHE |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 102,450,000 | 102,600,000 | 1367 | 1527 | 0.654913521 | |
| 1 | 102,525,000 | 102,675,000 | 1368 | 1596 | 0.547423301 | |
| 1 | 102,600,000 | 102,750,000 | 1369 | 1569 | -0.621541066 | |
| 1 | 102,675,000 | 102,825,000 | 1370 | 1315 | -1.388037411 | |
| 1 | 102,750,000 | 102,900,000 | 1371 | 1118 | -0.84372104 | |
| 1 | 102,825,000 | 102,975,000 | 1372 | 1057 | -0.914891838 | |
| 1 | 102,900,000 | 103,050,000 | 1373 | 805 | -1.184814129 | SLITRK3 |
| 1 | 102,975,000 | 103,125,000 | 1374 | 809 | -2.095970176 | SI,SLITRK3 |
| 1 | 103,050,000 | 103,200,000 | 1375 | 861 | -1.152156078 | SI |
| 1 | 103,125,000 | 103,275,000 | 1376 | 582 | 0.733736645 | SI |
| 1 | 103,200,000 | 103,350,000 | 1377 | 527 | 0.60095146 | SI |
| 1 | 103,275,000 | 103,425,000 | 1378 | 714 | -0.056578085 | |
| 1 | 103,350,000 | 103,500,000 | 1379 | 751 | -0.44384929 | |
| 1 | 103,425,000 | 103,575,000 | 1380 | 604 | -0.803761746 | |
| 1 | 103,500,000 | 103,650,000 | 1381 | 937 | -0.066034594 | |
| 1 | 103,575,000 | 103,725,000 | 1382 | 1390 | 0.116875719 | |
| 1 | 103,650,000 | 103,800,000 | 1383 | 1315 | -0.033292388 | |
| 1 | 103,725,000 | 103,875,000 | 1384 | 1142 | -0.495480492 | |
| 1 | 103,800,000 | 103,950,000 | 1385 | 787 | -0.778116035 | |
| 1 | 103,875,000 | 104,025,000 | 1386 | 804 | -0.216416239 | |
| 1 | 103,950,000 | 104,100,000 | 1387 | 1491 | -0.22044522 | |
| 1 | 104,025,000 | 104,175,000 | 1388 | 1139 | -0.488133409 | ENSBTAG00000018312 |
| 1 | 104,100,000 | 104,250,000 | 1389 | 453 | -1.448658874 | ENSBTAG00000018312 |
| 1 | 104,175,000 | 104,325,000 | 1390 | 607 | -1.612611695 | |
| 1 | 104,250,000 | 104,400,000 | 1391 | 595 | -1.127023405 | |
| 1 | 104,325,000 | 104,475,000 | 1392 | 538 | 0.887525991 | |
| 1 | 104,400,000 | 104,550,000 | 1393 | 777 | 1.180577879 | |
| 1 | 104,475,000 | 104,625,000 | 1394 | 645 | 1.029645022 | |
| 1 | 104,550,000 | 104,700,000 | 1395 | 413 | 1.033379736 | |
| 1 | 104,625,000 | 104,775,000 | 1396 | 458 | -1.018109816 | |
| 1 | 104,700,000 | 104,850,000 | 1397 | 657 | -2.669328871 | |
| 1 | 104,775,000 | 104,925,000 | 1398 | 895 | -0.873872208 | |
| 1 | 104,850,000 | 105,000,000 | 1399 | 1303 | -0.081996462 | |
| 1 | 104,925,000 | 105,075,000 | 1400 | 1300 | 0.053937871 | |
| 1 | 105,000,000 | 105,150,000 | 1401 | 851 | 0.250801738 | |
| 1 | 105,075,000 | 105,225,000 | 1402 | 1107 | 0.96623232 | ENSBTAG00000027213 |
| 1 | 105,150,000 | 105,300,000 | 1403 | 1204 | 1.207752282 | ENSBTAG00000025847,ENSBTAG00000027213 |
| 1 | 105,225,000 | 105,375,000 | 1404 | 1213 | 0.952908115 | ENSBTAG00000025847 |
| 1 | 105,300,000 | 105,450,000 | 1405 | 1367 | 0.925831799 | |
| 1 | 105,375,000 | 105,525,000 | 1406 | 1078 | 0.429672788 | |
| 1 | 105,450,000 | 105,600,000 | 1407 | 640 | -0.476957999 | |
| 1 | 105,525,000 | 105,675,000 | 1408 | 478 | 0.700552317 | |
| 1 | 105,600,000 | 105,750,000 | 1409 | 1394 | 0.617628854 | |
| 1 | 105,675,000 | 105,825,000 | 1410 | 1611 | 0.000967422 | |
| 1 | 105,750,000 | 105,900,000 | 1411 | 644 | -1.058766645 | |
| 1 | 105,825,000 | 105,975,000 | 1412 | 517 | 0.627269429 | |
| 1 | 105,900,000 | 106,050,000 | 1413 | 717 | 0.74049968 | |
| 1 | 105,975,000 | 106,125,000 | 1414 | 529 | 0.888849655 | |
| 1 | 106,050,000 | 106,200,000 | 1415 | 354 | 0.861711501 | |
| 1 | 106,125,000 | 106,275,000 | 1416 | 336 | 0.457445901 | |
| 1 | 106,200,000 | 106,350,000 | 1417 | 378 | 0.483329094 | |
| 1 | 106,275,000 | 106,425,000 | 1418 | 588 | 0.950699446 | |
| 1 | 106,350,000 | 106,500,000 | 1419 | 648 | 1.035256966 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 1 | 106,425,000 | 106,575,000 | 1420 | 549 | 0.892370004 | |
| 1 | 106,500,000 | 106,650,000 | 1421 | 530 | 0.30136519 | |
| 1 | 106,575,000 | 106,725,000 | 1422 | 628 | -0.182019472 | OTOL1 |
| 1 | 106,650,000 | 106,800,000 | 1423 | 632 | 0.458529413 | OTOL1 |
| 1 | 106,725,000 | 106,875,000 | 1424 | 568 | 0.670163281 | OTOL1 |
| 1 | 106,800,000 | 106,950,000 | 1425 | 479 | 0.290924539 | SPTSSB |
| 1 | 106,875,000 | 107,025,000 | 1426 | 655 | 0.612917763 | NMD3,SPTSSB |
| 1 | 106,950,000 | 107,100,000 | 1427 | 1322 | 1.072949103 | NMD3 |
| 1 | 107,025,000 | 107,175,000 | 1428 | 1023 | 0.307309184 | |
| 1 | 107,100,000 | 107,250,000 | 1429 | 607 | 0.330566917 | B3GALNT1,PPM1L |
| 1 | 107,175,000 | 107,325,000 | 1430 | 648 | 0.31194352 | B3GALNT1,PPM1L |
| 1 | 107,250,000 | 107,400,000 | 1431 | 403 | -1.408488424 | PPM1L |
| 1 | 107,325,000 | 107,475,000 | 1432 | 379 | -1.222095162 | PPM1L |
| 1 | 107,400,000 | 107,550,000 | 1433 | 473 | -2.164998398 | PPM1L |
| 1 | 107,475,000 | 107,625,000 | 1434 | 473 | -1.487362863 | PPM1L |
| 1 | 107,550,000 | 107,700,000 | 1435 | 437 | -1.235746986 | ARL14,PPM1L |
| 1 | 107,625,000 | 107,775,000 | 1436 | 495 | -1.033390077 | ARL14,KPNA4 |
| 1 | 107,700,000 | 107,850,000 | 1437 | 418 | 0.466530298 | KPNA4 |
| 1 | 107,775,000 | 107,925,000 | 1438 | 383 | 1.1657153 | KPNA4,MGC137058,SMC4 |
| 1 | 107,850,000 | 108,000,000 | 1439 | 395 | 1.271532286 | IFT80,MGC137058,SMC4 |
| 1 | 107,925,000 | 108,075,000 | 1440 | 379 | 1.291332681 | IFT80,SMC4 |
| 1 | 108,000,000 | 108,150,000 | 1441 | 388 | 0.260726162 | C3orf80,IFT80 |
| 1 | 108,075,000 | 108,225,000 | 1442 | 580 | -0.494344218 | C3orf80 |
| 1 | 108,150,000 | 108,300,000 | 1443 | 773 | -0.106426126 | IL12A |
| 1 | 108,225,000 | 108,375,000 | 1444 | 657 | -0.060432776 | IL12A |
| 1 | 108,300,000 | 108,450,000 | 1445 | 683 | 0.682287188 | SCHIP1 |
| 1 | 108,375,000 | 108,525,000 | 1446 | 621 | 0.654124485 | SCHIP1 |
| 1 | 108,450,000 | 108,600,000 | 1447 | 402 | 0.209247619 | SCHIP1 |
| 1 | 108,525,000 | 108,675,000 | 1448 | 759 | 0.929971042 | |
| 1 | 108,600,000 | 108,750,000 | 1449 | 1368 | 1.049044536 | |
| 1 | 108,675,000 | 108,825,000 | 1450 | 1433 | 0.915294613 | |
| 1 | 108,750,000 | 108,900,000 | 1451 | 1280 | 1.076011535 | |
| 1 | 108,825,000 | 108,975,000 | 1452 | 1297 | 1.294772242 | |
| 1 | 108,900,000 | 109,050,000 | 1453 | 1208 | 1.230033734 | |
| 1 | 108,975,000 | 109,125,000 | 1454 | 1155 | 1.282578503 | IQCJ |
| 1 | 109,050,000 | 109,200,000 | 1455 | 1392 | 1.29112995 | IQCJ |
| 1 | 109,125,000 | 109,275,000 | 1456 | 1465 | 1.163517738 | |
| 1 | 109,200,000 | 109,350,000 | 1457 | 1148 | 1.087809875 | |
| 1 | 109,275,000 | 109,425,000 | 1458 | 801 | 0.917720589 | |
| 1 | 109,350,000 | 109,500,000 | 1459 | 758 | 0.824705197 | |
| 1 | 109,425,000 | 109,575,000 | 1460 | 836 | -0.357549446 | MFSD1,ENSBTAG00000038395 |
| 1 | 109,500,000 | 109,650,000 | 1461 | 646 | -1.757857927 | MFSD1,ENSBTAG00000038395 |
| 1 | 109,575,000 | 109,725,000 | 1462 | 884 | -0.382301746 | GFM1,LXN,MFSD1,RARRES1 |
| 1 | 109,650,000 | 109,800,000 | 1463 | 996 | 0.332885275 | GFM1,LXN,MLF1,RARRES1 |
| 1 | 109,725,000 | 109,875,000 | 1464 | 750 | 0.474039482 | GFM1,LXN,MLF1,RSRC1 |
| 1 | 109,800,000 | 109,950,000 | 1465 | 649 | 0.732253392 | RSRC1 |
| 1 | 109,875,000 | 110,025,000 | 1466 | 372 | 0.338830972 | RSRC1,ENSBTAG00000047570 |
| 1 | 109,950,000 | 110,100,000 | 1467 | 383 | 0.007325821 | RSRC1,ENSBTAG00000047570 |
| 1 | 110,025,000 | 110,175,000 | 1468 | 577 | 0.785675286 | RSRC1,ENSBTAG00000047570 |
| 1 | 110,100,000 | 110,250,000 | 1469 | 527 | 1.057284141 | RSRC1 |
| 1 | 110,175,000 | 110,325,000 | 1470 | 312 | 0.873896226 | RSRC1,SHOX2 |
| 1 | 110,250,000 | 110,400,000 | 1471 | 579 | 1.059275164 | RSRC1,SHOX2 |
| 1 | 110,325,000 | 110,475,000 | 1472 | 722 | 1.125729681 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 1 | 110,400,000 | 110,550,000 | 1473 | 505 | 0.949869628 | |
| 1 | 110,475,000 | 110,625,000 | 1474 | 520 | 0.626845091 | |
| 1 | 110,550,000 | 110,700,000 | 1475 | 359 | 0.431223028 | |
| 1 | 110,625,000 | 110,775,000 | 1476 | 338 | -0.52481519 | |
| 1 | 110,700,000 | 110,850,000 | 1477 | 490 | -0.780907466 | |
| 1 | 110,775,000 | 110,925,000 | 1478 | 471 | -0.441673922 | |
| 1 | 110,850,000 | 111,000,000 | 1479 | 482 | -0.172807431 | VEPH1 |
| 1 | 110,925,000 | 111,075,000 | 1480 | 522 | 0.121584494 | PTX3,VEPH1 |
| 1 | 111,000,000 | 111,150,000 | 1481 | 768 | 0.767227204 | PTX3,VEPH1 |
| 1 | 111,075,000 | 111,225,000 | 1482 | 951 | 0.278951819 | VEPH1 |
| 1 | 111,150,000 | 111,300,000 | 1483 | 802 | -1.59956774 | VEPH1 |
| 1 | 111,225,000 | 111,375,000 | 1484 | 642 | -1.77445884 | CCNL1 |
| 1 | 111,300,000 | 111,450,000 | 1485 | 505 | -0.095847332 | CCNL1,ENSBTAG00000018009 |
| 1 | 111,375,000 | 111,525,000 | 1486 | 417 | 0.531540095 | ENSBTAG00000018009 |
| 1 | 111,450,000 | 111,600,000 | 1487 | 639 | 0.765450604 | ENSBTAG00000018009 |
| 1 | 111,525,000 | 111,675,000 | 1488 | 648 | -0.316719807 | |
| 1 | 111,600,000 | 111,750,000 | 1489 | 342 | -0.67601003 | |
| 1 | 111,675,000 | 111,825,000 | 1490 | 169 | 0.839914269 | |
| 1 | 111,750,000 | 111,900,000 | 1491 | 143 | 0.730702071 | TIPARP |
| 1 | 111,825,000 | 111,975,000 | 1492 | 358 | 0.305948261 | TIPARP |
| 1 | 111,900,000 | 112,050,000 | 1493 | 382 | -0.018930991 | KCNAB1,SSR3 |
| 1 | 111,975,000 | 112,125,000 | 1494 | 384 | 1.197831452 | KCNAB1,SSR3 |
| 1 | 112,050,000 | 112,200,000 | 1495 | 685 | 1.418816847 | KCNAB1 |
| 1 | 112,125,000 | 112,275,000 | 1496 | 727 | 0.139363252 | KCNAB1 |
| 1 | 112,200,000 | 112,350,000 | 1497 | 859 | -0.048206949 | KCNAB1 |
| 1 | 112,275,000 | 112,425,000 | 1498 | 835 | 0.829789405 | KCNAB1 |
| 1 | 112,350,000 | 112,500,000 | 1499 | 750 | 0.695500479 | KCNAB1 |
| 1 | 112,425,000 | 112,575,000 | 1500 | 907 | 0.85696267 | KCNAB1,ENSBTAG00000009622 |
| 1 | 112,500,000 | 112,650,000 | 1501 | 1166 | 0.966454843 | GMPS,ENSBTAG00000009622 |
| 1 | 112,575,000 | 112,725,000 | 1502 | 1306 | 1.02646096 | GMPS |
| 1 | 112,650,000 | 112,800,000 | 1503 | 969 | 0.846985314 | C3orf33,GMPS,SLC33A1 |
| 1 | 112,725,000 | 112,875,000 | 1504 | 703 | 0.302588062 | C3orf33,SLC33A1 |
| 1 | 112,800,000 | 112,950,000 | 1505 | 452 | 0.047849475 | C3orf33 |
| 1 | 112,875,000 | 113,025,000 | 1506 | 378 | -0.642299693 | PLCH1 |
| 1 | 112,950,000 | 113,100,000 | 1507 | 751 | -0.32146784 | PLCH1 |
| 1 | 113,025,000 | 113,175,000 | 1508 | 1143 | 0.008386054 | PLCH1 |
| 1 | 113,100,000 | 113,250,000 | 1509 | 962 | 0.296256298 | |
| 1 | 113,175,000 | 113,325,000 | 1510 | 907 | 0.596995145 | |
| 1 | 113,250,000 | 113,400,000 | 1511 | 868 | 0.633249077 | MME |
| 1 | 113,325,000 | 113,475,000 | 1512 | 671 | 0.285822575 | MME |
| 1 | 113,400,000 | 113,550,000 | 1513 | 928 | 0.236163029 | MME |
| 1 | 113,475,000 | 113,625,000 | 1514 | 1024 | 0.698561812 | MME,ENSBTAG00000024623 |
| 1 | 113,550,000 | 113,700,000 | 1515 | 896 | 0.375588195 | ENSBTAG00000024623 |
| 1 | 113,625,000 | 113,775,000 | 1516 | 1154 | 0.427104733 | |
| 1 | 113,700,000 | 113,850,000 | 1517 | 1082 | 0.904497272 | |
| 1 | 113,775,000 | 113,925,000 | 1518 | 774 | 0.527179638 | |
| 1 | 113,850,000 | 114,000,000 | 1519 | 1121 | 0.993831682 | |
| 1 | 113,925,000 | 114,075,000 | 1520 | 1024 | 1.189787479 | |
| 1 | 114,000,000 | 114,150,000 | 1521 | 965 | 1.172233758 | GPR149 |
| 1 | 114,075,000 | 114,225,000 | 1522 | 1382 | 0.998610208 | GPR149 |
| 1 | 114,150,000 | 114,300,000 | 1523 | 1347 | 0.758885351 | ARHGEF26,DHX36,GPR149 |
| 1 | 114,225,000 | 114,375,000 | 1524 | 1367 | 0.343345465 | ARHGEF26,DHX36,GPR149 |
| 1 | 114,300,000 | 114,450,000 | 1525 | 1303 | 0.199155994 | ARHGEF26 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 114,375,000 | 114,525,000 | 1526 | 939 | 0.314255403 | ARHGEF26 |
| 1 | 114,450,000 | 114,600,000 | 1527 | 986 | -0.449532092 | |
| 1 | 114,525,000 | 114,675,000 | 1528 | 946 | -0.547162456 | |
| 1 | 114,600,000 | 114,750,000 | 1529 | 516 | -0.905574716 | YWHAH |
| 1 | 114,675,000 | 114,825,000 | 1530 | 321 | -1.126458412 | YWHAH |
| 1 | 114,750,000 | 114,900,000 | 1531 | 660 | -0.686876543 | |
| 1 | 114,825,000 | 114,975,000 | 1532 | 847 | 0.109273016 | |
| 1 | 114,900,000 | 115,050,000 | 1533 | 803 | -0.049429868 | |
| 1 | 114,975,000 | 115,125,000 | 1534 | 1466 | -1.056712497 | |
| 1 | 115,050,000 | 115,200,000 | 1535 | 1932 | -0.163863073 | |
| 1 | 115,125,000 | 115,275,000 | 1536 | 1794 | 0.835061142 | |
| 1 | 115,200,000 | 115,350,000 | 1537 | 1155 | 0.885441862 | ENSBTAG00000047341 |
| 1 | 115,275,000 | 115,425,000 | 1538 | 1061 | -0.278944212 | ENSBTAG00000047341 |
| 1 | 115,350,000 | 115,500,000 | 1539 | 1177 | -0.205930559 | RAP2B |
| 1 | 115,425,000 | 115,575,000 | 1540 | 948 | 0.662701004 | RAP2B |
| 1 | 115,500,000 | 115,650,000 | 1541 | 1042 | 0.667652904 | |
| 1 | 115,575,000 | 115,725,000 | 1542 | 1126 | 0.803142496 | |
| 1 | 115,650,000 | 115,800,000 | 1543 | 1036 | 0.285104343 | |
| 1 | 115,725,000 | 115,875,000 | 1544 | 734 | 0.05138947 | P2RY1 |
| 1 | 115,800,000 | 115,950,000 | 1545 | 859 | 0.98554149 | P2RY1 |
| 1 | 115,875,000 | 116,025,000 | 1546 | 826 | 0.898436511 | |
| 1 | 115,950,000 | 116,100,000 | 1547 | 520 | 0.795675499 | |
| 1 | 116,025,000 | 116,175,000 | 1548 | 573 | 0.734624977 | |
| 1 | 116,100,000 | 116,250,000 | 1549 | 848 | 0.948715799 | MBNL1 |
| 1 | 116,175,000 | 116,325,000 | 1550 | 852 | 1.086106736 | MBNL1 |
| 1 | 116,250,000 | 116,400,000 | 1551 | 869 | -1.328990319 | MBNL1 |
| 1 | 116,325,000 | 116,475,000 | 1552 | 1028 | -0.794739305 | MBNL1 |
| 1 | 116,400,000 | 116,550,000 | 1553 | 920 | 0.833043863 | |
| 1 | 116,475,000 | 116,625,000 | 1554 | 866 | 0.638549161 | |
| 1 | 116,550,000 | 116,700,000 | 1555 | 773 | -0.183600402 | |
| 1 | 116,625,000 | 116,775,000 | 1556 | 825 | -1.129996325 | |
| 1 | 116,700,000 | 116,850,000 | 1557 | 985 | -0.130937173 | |
| 1 | 116,775,000 | 116,925,000 | 1558 | 684 | 0.277331123 | SUCNR1 |
| 1 | 116,850,000 | 117,000,000 | 1559 | 404 | -0.054272063 | AADAC,SUCNR1 |
| 1 | 116,925,000 | 117,075,000 | 1560 | 537 | 0.820294461 | AADAC |
| 1 | 117,000,000 | 117,150,000 | 1561 | 784 | 0.808882437 | AADACL2 |
| 1 | 117,075,000 | 117,225,000 | 1562 | 609 | 0.792630215 | AADACL2 |
| 1 | 117,150,000 | 117,300,000 | 1563 | 592 | -1.316707947 | AADACL2,ENSBTAG00000010385 |
| 1 | 117,225,000 | 117,375,000 | 1564 | 1033 | -0.363373198 | ENSBTAG00000010385 |
| 1 | 117,300,000 | 117,450,000 | 1565 | 1120 | 0.2495038 | ENSBTAG00000023447 |
| 1 | 117,375,000 | 117,525,000 | 1566 | 993 | 0.384499259 | ENSBTAG00000023447 |
| 1 | 117,450,000 | 117,600,000 | 1567 | 937 | 0.107144548 | IGSF10,MED12L,P2RY12 |
| 1 | 117,525,000 | 117,675,000 | 1568 | 751 | -0.188788709 | IGSF10,MED12L,P2RY12 |
| 1 | 117,600,000 | 117,750,000 | 1569 | 893 | 0.210819616 | GPR87,MED12L,P2RY12,P2RY13,ENSBTAG00000046051 |
| 1 | 117,675,000 | 117,825,000 | 1570 | 1131 | 0.153555768 | GPR87,MED12L,P2RY13,P2RY14,ENSBTAG00000046051 |
| 1 | 117,750,000 | 117,900,000 | 1571 | 906 | 0.16419676 | GPR171,MED12L,P2RY14 |
| 1 | 117,825,000 | 117,975,000 | 1572 | 909 | 0.14470908 | GPR171,MED12L |
| 1 | 117,900,000 | 118,050,000 | 1573 | 1127 | 0.260300024 | MED12L |
| 1 | 117,975,000 | 118,125,000 | 1574 | 1319 | -0.017945065 | ENSBTAG00000011267 |
| 1 | 118,050,000 | 118,200,000 | 1575 | 1575 | 0.392032131 | ENSBTAG00000011267,ENSBTAG00000038069 |
| 1 | 118,125,000 | 118,275,000 | 1576 | 1348 | 0.83608124 | ENSBTAG00000011267,ENSBTAG00000038069 |
| 1 | 118,200,000 | 118,350,000 | 1577 | 684 | 0.534855992 | SIAH2,ENSBTAG00000038069 |
| 1 | 118,275,000 | 118,425,000 | 1578 | 926 | 1.155097953 | ERICH6,SIAH2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------|
| 1 | 118,350,000 | 118,500,000 | 1579 | 1195 | 1.022418376 | EIF2A,ERICH6,SELT |
| 1 | 118,425,000 | 118,575,000 | 1580 | 791 | 0.323416413 | EIF2A,SELT,SERP1 |
| 1 | 118,500,000 | 118,650,000 | 1581 | 641 | 0.078372146 | EIF2A,SERP1,TSC22D2 |
| 1 | 118,575,000 | 118,725,000 | 1582 | 639 | -0.581543336 | TSC22D2 |
| 1 | 118,650,000 | 118,800,000 | 1583 | 612 | -0.072921142 | TSC22D2 |
| 1 | 118,725,000 | 118,875,000 | 1584 | 539 | -0.33994505 | |
| 1 | 118,800,000 | 118,950,000 | 1585 | 664 | -1.331242687 | |
| 1 | 118,875,000 | 119,025,000 | 1586 | 786 | -1.781871539 | |
| 1 | 118,950,000 | 119,100,000 | 1587 | 659 | -2.525349816 | |
| 1 | 119,025,000 | 119,175,000 | 1588 | 553 | -0.933963906 | PFN2,RNF13 |
| 1 | 119,100,000 | 119,250,000 | 1589 | 896 | -0.212589905 | PFN2,RNF13 |
| 1 | 119,175,000 | 119,325,000 | 1590 | 1216 | -0.450577201 | ANKUB1,RNF13 |
| 1 | 119,250,000 | 119,400,000 | 1591 | 1061 | -2.165417217 | ANKUB1,COMMD2,RNF13 |
| 1 | 119,325,000 | 119,475,000 | 1592 | 762 | -3.744333139 | ANKUB1,COMMD2,WWTR1 |
| 1 | 119,400,000 | 119,550,000 | 1593 | 456 | -2.361192329 | WWTR1 |
| 1 | 119,475,000 | 119,625,000 | 1594 | 302 | -2.378061181 | TM4SF4,WWTR1 |
| 1 | 119,550,000 | 119,700,000 | 1595 | 482 | -1.688172721 | TM4SF4,WWTR1 |
| 1 | 119,625,000 | 119,775,000 | 1596 | 707 | -1.060343664 | TM4SF1,TM4SF4 |
| 1 | 119,700,000 | 119,850,000 | 1597 | 678 | -1.045850565 | TM4SF1,TM4SF18 |
| 1 | 119,775,000 | 119,925,000 | 1598 | 785 | -1.55881463 | CP,TM4SF18 |
| 1 | 119,850,000 | 120,000,000 | 1599 | 901 | -0.98035297 | CP,HPS3,ENSBTAG00000048150 |
| 1 | 119,925,000 | 120,075,000 | 1600 | 702 | -0.550309228 | CP,HLTF,HPS3,ENSBTAG00000048150 |
| 1 | 120,000,000 | 120,150,000 | 1601 | 569 | -0.425672937 | GYG1,HLTF |
| 1 | 120,075,000 | 120,225,000 | 1602 | 400 | -0.130174954 | GYG1,HLTF |
| 1 | 120,150,000 | 120,300,000 | 1603 | 510 | -0.230656565 | CPA3,PCPB |
| 1 | 120,225,000 | 120,375,000 | 1604 | 905 | -0.070018665 | CPA3,PCPB |
| 1 | 120,300,000 | 120,450,000 | 1605 | 906 | 0.152791511 | AGTR1,PCPB |
| 1 | 120,375,000 | 120,525,000 | 1606 | 903 | 0.742973998 | AGTR1 |
| 1 | 120,450,000 | 120,600,000 | 1607 | 840 | 0.694856243 | |
| 1 | 120,525,000 | 120,675,000 | 1608 | 558 | 0.438111399 | |
| 1 | 120,600,000 | 120,750,000 | 1609 | 453 | -0.023676307 | ENSBTAG00000046008 |
| 1 | 120,675,000 | 120,825,000 | 1610 | 584 | 0.423796496 | ENSBTAG00000046008 |
| 1 | 120,750,000 | 120,900,000 | 1611 | 941 | 0.853330353 | |
| 1 | 120,825,000 | 120,975,000 | 1612 | 880 | 0.403434486 | |
| 1 | 120,900,000 | 121,050,000 | 1613 | 760 | -1.499264981 | |
| 1 | 120,975,000 | 121,125,000 | 1614 | 644 | -2.356320151 | |
| 1 | 121,050,000 | 121,200,000 | 1615 | 674 | 0.088475277 | |
| 1 | 121,125,000 | 121,275,000 | 1616 | 924 | 0.673677745 | |
| 1 | 121,200,000 | 121,350,000 | 1617 | 739 | 0.745873717 | ENSBTAG00000039334 |
| 1 | 121,275,000 | 121,425,000 | 1618 | 999 | 0.19776242 | ENSBTAG00000039334 |
| 1 | 121,350,000 | 121,500,000 | 1619 | 1260 | 0.182167429 | ENSBTAG00000025146 |
| 1 | 121,425,000 | 121,575,000 | 1620 | 1014 | -0.097928889 | ENSBTAG00000025146 |
| 1 | 121,500,000 | 121,650,000 | 1621 | 629 | -0.633701892 | |
| 1 | 121,575,000 | 121,725,000 | 1622 | 649 | -0.236907193 | |
| 1 | 121,650,000 | 121,800,000 | 1623 | 650 | -0.813833049 | |
| 1 | 121,725,000 | 121,875,000 | 1624 | 508 | -3.083149788 | ZIC1,ZIC4 |
| 1 | 121,800,000 | 121,950,000 | 1625 | 559 | -3.620897664 | ZIC1,ZIC4 |
| 1 | 121,875,000 | 122,025,000 | 1626 | 501 | -1.773772427 | ZIC4 |
| 1 | 121,950,000 | 122,100,000 | 1627 | 581 | 0.673428759 | |
| 1 | 122,025,000 | 122,175,000 | 1628 | 481 | 0.207644736 | |
| 1 | 122,100,000 | 122,250,000 | 1629 | 349 | -2.554014165 | |
| 1 | 122,175,000 | 122,325,000 | 1630 | 358 | -3.85510622 | |
| 1 | 122,250,000 | 122,400,000 | 1631 | 359 | -2.025437218 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------|
| 1 | 122,325,000 | 122,475,000 | 1632 | 651 | 0.427593786 | |
| 1 | 122,400,000 | 122,550,000 | 1633 | 726 | 0.40043793 | |
| 1 | 122,475,000 | 122,625,000 | 1634 | 496 | 0.169318266 | |
| 1 | 122,550,000 | 122,700,000 | 1635 | 780 | 0.208520647 | |
| 1 | 122,625,000 | 122,775,000 | 1636 | 865 | 0.247313672 | |
| 1 | 122,700,000 | 122,850,000 | 1637 | 810 | 0.312004918 | PLSCR5 |
| 1 | 122,775,000 | 122,925,000 | 1638 | 921 | 0.413345853 | PLSCR2,PLSCR5 |
| 1 | 122,850,000 | 123,000,000 | 1639 | 1070 | 0.383559043 | PLSCR2 |
| 1 | 122,925,000 | 123,075,000 | 1640 | 1159 | 0.73641177 | PLSCR1,PLSCR2 |
| 1 | 123,000,000 | 123,150,000 | 1641 | 665 | 1.033478424 | PLSCR1 |
| 1 | 123,075,000 | 123,225,000 | 1642 | 400 | -1.407750903 | |
| 1 | 123,150,000 | 123,300,000 | 1643 | 571 | -0.058036678 | PLSCR4 |
| 1 | 123,225,000 | 123,375,000 | 1644 | 614 | 1.144676079 | PLOD2,PLSCR4 |
| 1 | 123,300,000 | 123,450,000 | 1645 | 602 | 1.115959922 | PLOD2 |
| 1 | 123,375,000 | 123,525,000 | 1646 | 805 | 0.117266416 | PLOD2 |
| 1 | 123,450,000 | 123,600,000 | 1647 | 1182 | -0.032691452 | |
| 1 | 123,525,000 | 123,675,000 | 1648 | 1104 | 0.044089697 | |
| 1 | 123,600,000 | 123,750,000 | 1649 | 985 | 0.7283692 | |
| 1 | 123,675,000 | 123,825,000 | 1650 | 858 | 1.152190072 | |
| 1 | 123,750,000 | 123,900,000 | 1651 | 924 | 1.15154372 | |
| 1 | 123,825,000 | 123,975,000 | 1652 | 804 | 1.017247804 | |
| 1 | 123,900,000 | 124,050,000 | 1653 | 571 | -0.514298341 | |
| 1 | 123,975,000 | 124,125,000 | 1654 | 914 | -2.456723321 | |
| 1 | 124,050,000 | 124,200,000 | 1655 | 947 | -5.010022719 | |
| 1 | 124,125,000 | 124,275,000 | 1656 | 594 | -4.742269639 | |
| 1 | 124,200,000 | 124,350,000 | 1657 | 361 | -0.009193444 | |
| 1 | 124,275,000 | 124,425,000 | 1658 | 331 | 0.311220745 | |
| 1 | 124,350,000 | 124,500,000 | 1659 | 344 | 0.525274388 | |
| 1 | 124,425,000 | 124,575,000 | 1660 | 617 | 0.596345849 | |
| 1 | 124,500,000 | 124,650,000 | 1661 | 924 | 0.618905145 | |
| 1 | 124,575,000 | 124,725,000 | 1662 | 1205 | 0.868412796 | |
| 1 | 124,650,000 | 124,800,000 | 1663 | 1247 | 0.689708308 | |
| 1 | 124,725,000 | 124,875,000 | 1664 | 900 | -0.162617433 | |
| 1 | 124,800,000 | 124,950,000 | 1665 | 472 | -0.478101112 | |
| 1 | 124,875,000 | 125,025,000 | 1666 | 632 | 0.447672244 | |
| 1 | 124,950,000 | 125,100,000 | 1667 | 1022 | 0.862683088 | |
| 1 | 125,025,000 | 125,175,000 | 1668 | 834 | 0.70569176 | |
| 1 | 125,100,000 | 125,250,000 | 1669 | 867 | -0.409115392 | |
| 1 | 125,175,000 | 125,325,000 | 1670 | 970 | -0.284788251 | |
| 1 | 125,250,000 | 125,400,000 | 1671 | 715 | 0.563745615 | |
| 1 | 125,325,000 | 125,475,000 | 1672 | 625 | 1.240463724 | |
| 1 | 125,400,000 | 125,550,000 | 1673 | 712 | 1.175057807 | |
| 1 | 125,475,000 | 125,625,000 | 1674 | 672 | -0.0209077 | |
| 1 | 125,550,000 | 125,700,000 | 1675 | 846 | -1.089595243 | |
| 1 | 125,625,000 | 125,775,000 | 1676 | 1102 | -0.726928173 | |
| 1 | 125,700,000 | 125,850,000 | 1677 | 918 | 0.336524718 | |
| 1 | 125,775,000 | 125,925,000 | 1678 | 679 | 1.169311608 | C1H3orf58 |
| 1 | 125,850,000 | 126,000,000 | 1679 | 748 | 1.10429899 | C1H3orf58 |
| 1 | 125,925,000 | 126,075,000 | 1680 | 749 | 0.463609117 | SLC9A9 |
| 1 | 126,000,000 | 126,150,000 | 1681 | 792 | 0.09015013 | SLC9A9 |
| 1 | 126,075,000 | 126,225,000 | 1682 | 935 | -0.334293765 | SLC9A9 |
| 1 | 126,150,000 | 126,300,000 | 1683 | 795 | -0.458549656 | SLC9A9 |
| 1 | 126,225,000 | 126,375,000 | 1684 | 752 | 1.018944774 | SLC9A9 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------------------|
| 1 | 126,300,000 | 126,450,000 | 1685 | 646 | 0.765888388 | SLC9A9 |
| 1 | 126,375,000 | 126,525,000 | 1686 | 581 | 0.239783251 | SLC9A9 |
| 1 | 126,450,000 | 126,600,000 | 1687 | 911 | 0.380458837 | SLC9A9 |
| 1 | 126,525,000 | 126,675,000 | 1688 | 986 | 0.338171627 | SLC9A9 |
| 1 | 126,600,000 | 126,750,000 | 1689 | 1003 | 0.921880917 | SLC9A9 |
| 1 | 126,675,000 | 126,825,000 | 1690 | 911 | 1.015296562 | SLC9A9 |
| 1 | 126,750,000 | 126,900,000 | 1691 | 802 | 0.048211026 | CHST2 |
| 1 | 126,825,000 | 126,975,000 | 1692 | 1022 | 0.322240556 | CHST2,U2SURP |
| 1 | 126,900,000 | 127,050,000 | 1693 | 912 | 0.609136038 | PAQR9,U2SURP |
| 1 | 126,975,000 | 127,125,000 | 1694 | 690 | 0.677444779 | PAQR9,U2SURP |
| 1 | 127,050,000 | 127,200,000 | 1695 | 540 | 0.404083108 | PCOLCE2,ENSBTAG00000038111 |
| 1 | 127,125,000 | 127,275,000 | 1696 | 374 | 0.337297274 | PCOLCE2,TRPC1,ENSBTAG00000038111 |
| 1 | 127,200,000 | 127,350,000 | 1697 | 325 | 0.759037593 | PCOLCE2,PLS1,TRPC1 |
| 1 | 127,275,000 | 127,425,000 | 1698 | 539 | 1.049925068 | PLS1,TRPC1 |
| 1 | 127,350,000 | 127,500,000 | 1699 | 597 | 1.219912042 | ATR,PLS1 |
| 1 | 127,425,000 | 127,575,000 | 1700 | 365 | 1.137341888 | ATR |
| 1 | 127,500,000 | 127,650,000 | 1701 | 248 | 0.97242755 | ATR,XRN1 |
| 1 | 127,575,000 | 127,725,000 | 1702 | 182 | 1.100786416 | ATR,XRN1 |
| 1 | 127,650,000 | 127,800,000 | 1703 | 264 | 0.501569641 | GK5,XRN1 |
| 1 | 127,725,000 | 127,875,000 | 1704 | 503 | -0.035578891 | GK5 |
| 1 | 127,800,000 | 127,950,000 | 1705 | 482 | -0.454580924 | GK5 |
| 1 | 127,875,000 | 128,025,000 | 1706 | 282 | -0.52893808 | TFDP2 |
| 1 | 127,950,000 | 128,100,000 | 1707 | 338 | -0.308600525 | ATP1B3,TFDP2,ENSBTAG00000019007 |
| 1 | 128,025,000 | 128,175,000 | 1708 | 481 | -1.64888149 | ATP1B3,GRK7,TFDP2,ENSBTAG00000019007 |
| 1 | 128,100,000 | 128,250,000 | 1709 | 837 | -1.898989829 | GRK7,RNF7 |
| 1 | 128,175,000 | 128,325,000 | 1710 | 1062 | -2.783915473 | GRK7,RNF7 |
| 1 | 128,250,000 | 128,400,000 | 1711 | 696 | -3.190450581 | RASA2 |
| 1 | 128,325,000 | 128,475,000 | 1712 | 584 | -1.778961908 | RASA2 |
| 1 | 128,400,000 | 128,550,000 | 1713 | 1004 | -1.014212098 | RASA2,ZBTB38 |
| 1 | 128,475,000 | 128,625,000 | 1714 | 959 | -0.108456197 | ZBTB38 |
| 1 | 128,550,000 | 128,700,000 | 1715 | 528 | 0.096979825 | PXYLP1 |
| 1 | 128,625,000 | 128,775,000 | 1716 | 315 | -1.709753164 | PXYLP1 |
| 1 | 128,700,000 | 128,850,000 | 1717 | 445 | -0.098763204 | PXYLP1,SPSB4 |
| 1 | 128,775,000 | 128,925,000 | 1718 | 691 | 1.001363466 | SPSB4 |
| 1 | 128,850,000 | 129,000,000 | 1719 | 842 | 0.836246556 | SPSB4 |
| 1 | 128,925,000 | 129,075,000 | 1720 | 807 | 0.968311683 | SLC25A36 |
| 1 | 129,000,000 | 129,150,000 | 1721 | 1069 | 0.899952601 | SLC25A36 |
| 1 | 129,075,000 | 129,225,000 | 1722 | 1391 | 0.741725531 | |
| 1 | 129,150,000 | 129,300,000 | 1723 | 1318 | 0.447956613 | TRIM42 |
| 1 | 129,225,000 | 129,375,000 | 1724 | 1243 | 0.019545812 | TRIM42 |
| 1 | 129,300,000 | 129,450,000 | 1725 | 1099 | 0.070379971 | CLSTN2 |
| 1 | 129,375,000 | 129,525,000 | 1726 | 1127 | 0.069902379 | CLSTN2 |
| 1 | 129,450,000 | 129,600,000 | 1727 | 892 | -0.00218022 | CLSTN2 |
| 1 | 129,525,000 | 129,675,000 | 1728 | 781 | 0.487042156 | CLSTN2 |
| 1 | 129,600,000 | 129,750,000 | 1729 | 992 | 0.384627047 | |
| 1 | 129,675,000 | 129,825,000 | 1730 | 1163 | 0.169214996 | |
| 1 | 129,750,000 | 129,900,000 | 1731 | 1313 | 0.015051127 | |
| 1 | 129,825,000 | 129,975,000 | 1732 | 1251 | -0.187594153 | |
| 1 | 129,900,000 | 130,050,000 | 1733 | 822 | 0.045895617 | |
| 1 | 129,975,000 | 130,125,000 | 1734 | 335 | 1.207228441 | |
| 1 | 130,050,000 | 130,200,000 | 1735 | 295 | 1.25424332 | |
| 1 | 130,125,000 | 130,275,000 | 1736 | 319 | 1.212561754 | |
| 1 | 130,200,000 | 130,350,000 | 1737 | 661 | 1.287474596 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 130,275,000 | 130,425,000 | 1738 | 1019 | 0.413581008 | |
| 1 | 130,350,000 | 130,500,000 | 1739 | 937 | -0.759425864 | NMNAT3 |
| 1 | 130,425,000 | 130,575,000 | 1740 | 749 | -0.047740129 | KPNA6,NMNAT3 |
| 1 | 130,500,000 | 130,650,000 | 1741 | 764 | -1.550733932 | KPNA6,NMNAT3,RBP1 |
| 1 | 130,575,000 | 130,725,000 | 1742 | 790 | -2.596898036 | KPNA6,RBP1,RBP2,TXLNA |
| 1 | 130,650,000 | 130,800,000 | 1743 | 610 | -2.035361074 | COPB2,MRPS22,RBP2,TXLNA |
| 1 | 130,725,000 | 130,875,000 | 1744 | 482 | -0.072172505 | COPB2,MRPS22 |
| 1 | 130,800,000 | 130,950,000 | 1745 | 302 | 0.748047371 | COPB2 |
| 1 | 130,875,000 | 131,025,000 | 1746 | 252 | 0.32986512 | |
| 1 | 130,950,000 | 131,100,000 | 1747 | 403 | -0.297166124 | ENSBTAG00000046040 |
| 1 | 131,025,000 | 131,175,000 | 1748 | 569 | 0.294023194 | ENSBTAG00000045637,ENSBTAG00000046040,ENSBTAG0000046738 |
| 1 | 131,100,000 | 131,250,000 | 1749 | 586 | 0.057209529 | FOXL2,ENSBTAG00000045637,ENSBTAG00000046738 |
| 1 | 131,175,000 | 131,325,000 | 1750 | 536 | -3.323128332 | FOXL2 |
| 1 | 131,250,000 | 131,400,000 | 1751 | 491 | -3.390385173 | |
| 1 | 131,325,000 | 131,475,000 | 1752 | 534 | -1.003179551 | PIK3CB |
| 1 | 131,400,000 | 131,550,000 | 1753 | 745 | 0.328579962 | FAIM,PIK3CB |
| 1 | 131,475,000 | 131,625,000 | 1754 | 795 | 0.969289515 | CEP70,FAIM,PIK3CB |
| 1 | 131,550,000 | 131,700,000 | 1755 | 745 | 1.274348758 | CEP70,ESYT3,FAIM |
| 1 | 131,625,000 | 131,775,000 | 1756 | 845 | 0.269381762 | CEP70,ESYT3,MRAS |
| 1 | 131,700,000 | 131,850,000 | 1757 | 802 | -3.553007021 | ESYT3,MRAS |
| 1 | 131,775,000 | 131,925,000 | 1758 | 528 | -3.576607434 | ARMC8,MRAS,NME9 |
| 1 | 131,850,000 | 132,000,000 | 1759 | 265 | 1.076187044 | ARMC8,NME9 |
| 1 | 131,925,000 | 132,075,000 | 1760 | 445 | -0.116117055 | A4GNT,ARMC8,DBR1 |
| 1 | 132,000,000 | 132,150,000 | 1761 | 808 | 0.358972841 | A4GNT,DBR1,DZIP1L |
| 1 | 132,075,000 | 132,225,000 | 1762 | 877 | 1.239809696 | CLDN18,DZIP1L |
| 1 | 132,150,000 | 132,300,000 | 1763 | 879 | 1.290550381 | CLDN18 |
| 1 | 132,225,000 | 132,375,000 | 1764 | 894 | 0.935309539 | |
| 1 | 132,300,000 | 132,450,000 | 1765 | 571 | 0.574899634 | |
| 1 | 132,375,000 | 132,525,000 | 1766 | 488 | 1.018608366 | |
| 1 | 132,450,000 | 132,600,000 | 1767 | 836 | 1.141571257 | |
| 1 | 132,525,000 | 132,675,000 | 1768 | 1016 | 1.082532214 | |
| 1 | 132,600,000 | 132,750,000 | 1769 | 1087 | 1.071211256 | |
| 1 | 132,675,000 | 132,825,000 | 1770 | 1010 | 1.07160508 | |
| 1 | 132,750,000 | 132,900,000 | 1771 | 1064 | 1.219790661 | |
| 1 | 132,825,000 | 132,975,000 | 1772 | 939 | 1.239519802 | |
| 1 | 132,900,000 | 133,050,000 | 1773 | 704 | 1.02227012 | |
| 1 | 132,975,000 | 133,125,000 | 1774 | 661 | 0.998693891 | |
| 1 | 133,050,000 | 133,200,000 | 1775 | 575 | 0.422571576 | |
| 1 | 133,125,000 | 133,275,000 | 1776 | 857 | -0.620506252 | IL20RB,ENSBTAG00000046781 |
| 1 | 133,200,000 | 133,350,000 | 1777 | 931 | 0.02241599 | IL20RB,NCK1,ENSBTAG00000046781 |
| 1 | 133,275,000 | 133,425,000 | 1778 | 463 | 0.918449956 | IL20RB,NCK1,TMEM22 |
| 1 | 133,350,000 | 133,500,000 | 1779 | 386 | 1.120321149 | NCK1,TMEM22,ENSBTAG00000048305 |
| 1 | 133,425,000 | 133,575,000 | 1780 | 386 | 0.665107414 | TMEM22,ENSBTAG00000048305 |
| 1 | 133,500,000 | 133,650,000 | 1781 | 278 | -1.229771333 | |
| 1 | 133,575,000 | 133,725,000 | 1782 | 365 | -0.657981492 | PFDN4,STAG1 |
| 1 | 133,650,000 | 133,800,000 | 1783 | 386 | -0.131715813 | PFDN4,STAG1 |
| 1 | 133,725,000 | 133,875,000 | 1784 | 363 | -0.268760223 | STAG1 |
| 1 | 133,800,000 | 133,950,000 | 1785 | 367 | -0.770449383 | STAG1 |
| 1 | 133,875,000 | 134,025,000 | 1786 | 323 | -0.831199072 | STAG1 |
| 1 | 133,950,000 | 134,100,000 | 1787 | 420 | 0.484248206 | PCCB,STAG1 |
| 1 | 134,025,000 | 134,175,000 | 1788 | 488 | -0.13823824 | PCCB,STAG1 |
| 1 | 134,100,000 | 134,250,000 | 1789 | 348 | -1.163569561 | MSL2,PCCB,PPP2R3A |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------|
| 1 | 134,175,000 | 134,325,000 | 1790 | 305 | -0.043295009 | MSL2,PPP2R3A |
| 1 | 134,250,000 | 134,400,000 | 1791 | 347 | 0.301850886 | PPP2R3A |
| 1 | 134,325,000 | 134,475,000 | 1792 | 432 | 0.23063526 | PPP2R3A |
| 1 | 134,400,000 | 134,550,000 | 1793 | 453 | -0.317318354 | |
| 1 | 134,475,000 | 134,625,000 | 1794 | 695 | 0.006411618 | |
| 1 | 134,550,000 | 134,700,000 | 1795 | 706 | -0.009129507 | |
| 1 | 134,625,000 | 134,775,000 | 1796 | 446 | -0.696197738 | |
| 1 | 134,700,000 | 134,850,000 | 1797 | 653 | -0.975076968 | |
| 1 | 134,775,000 | 134,925,000 | 1798 | 647 | -1.068351 | |
| 1 | 134,850,000 | 135,000,000 | 1799 | 333 | -0.696943317 | |
| 1 | 134,925,000 | 135,075,000 | 1800 | 366 | -6.060105115 | |
| 1 | 135,000,000 | 135,150,000 | 1801 | 419 | -6.712176455 | |
| 1 | 135,075,000 | 135,225,000 | 1802 | 342 | -1.437590984 | EPHB1 |
| 1 | 135,150,000 | 135,300,000 | 1803 | 430 | 0.435848001 | EPHB1 |
| 1 | 135,225,000 | 135,375,000 | 1804 | 746 | 0.761253537 | EPHB1 |
| 1 | 135,300,000 | 135,450,000 | 1805 | 782 | 0.178995828 | EPHB1 |
| 1 | 135,375,000 | 135,525,000 | 1806 | 632 | -2.073935134 | EPHB1 |
| 1 | 135,450,000 | 135,600,000 | 1807 | 726 | -1.339020358 | EPHB1 |
| 1 | 135,525,000 | 135,675,000 | 1808 | 585 | 0.431696983 | |
| 1 | 135,600,000 | 135,750,000 | 1809 | 614 | 0.725335836 | |
| 1 | 135,675,000 | 135,825,000 | 1810 | 582 | 0.235070813 | |
| 1 | 135,750,000 | 135,900,000 | 1811 | 301 | -0.701121444 | CEP63 |
| 1 | 135,825,000 | 135,975,000 | 1812 | 463 | 0.261949068 | ANAPC13,CEP63 |
| 1 | 135,900,000 | 136,050,000 | 1813 | 631 | -0.197546554 | ANAPC13,CEP63 |
| 1 | 135,975,000 | 136,125,000 | 1814 | 591 | -0.421580648 | AMOTL2 |
| 1 | 136,050,000 | 136,200,000 | 1815 | 655 | -0.302417184 | AMOTL2 |
| 1 | 136,125,000 | 136,275,000 | 1816 | 586 | -0.776546617 | RYK |
| 1 | 136,200,000 | 136,350,000 | 1817 | 399 | -0.762297069 | RYK |
| 1 | 136,275,000 | 136,425,000 | 1818 | 673 | 1.348636162 | RYK |
| 1 | 136,350,000 | 136,500,000 | 1819 | 717 | 1.350076413 | SLCO2A1 |
| 1 | 136,425,000 | 136,575,000 | 1820 | 386 | 0.88591132 | RAB6B,SLCO2A1 |
| 1 | 136,500,000 | 136,650,000 | 1821 | 926 | 0.672852 | RAB6B,SLCO2A1,SRPRB |
| 1 | 136,575,000 | 136,725,000 | 1822 | 1191 | 0.324922707 | RAB6B,SRPRB,TF |
| 1 | 136,650,000 | 136,800,000 | 1823 | 1125 | 0.25810887 | SRPRB,TF,ENSBTAG00000023411 |
| 1 | 136,725,000 | 136,875,000 | 1824 | 1082 | 0.470169339 | TOPBP1,ENSBTAG00000023411 |
| 1 | 136,800,000 | 136,950,000 | 1825 | 922 | 0.926725973 | TOPBP1,ENSBTAG00000035556 |
| 1 | 136,875,000 | 137,025,000 | 1826 | 821 | 0.199031055 | TOPBP1,ENSBTAG00000035556 |
| 1 | 136,950,000 | 137,100,000 | 1827 | 770 | -2.01239483 | BFSP2,ENSBTAG00000035556 |
| 1 | 137,025,000 | 137,175,000 | 1828 | 860 | -2.046117703 | BFSP2,TMEM108 |
| 1 | 137,100,000 | 137,250,000 | 1829 | 1032 | -0.363766349 | BFSP2,TMEM108 |
| 1 | 137,175,000 | 137,325,000 | 1830 | 1021 | 0.732291824 | |
| 1 | 137,250,000 | 137,400,000 | 1831 | 755 | 0.895125559 | |
| 1 | 137,325,000 | 137,475,000 | 1832 | 1013 | 1.244089382 | |
| 1 | 137,400,000 | 137,550,000 | 1833 | 932 | 1.063527254 | |
| 1 | 137,475,000 | 137,625,000 | 1834 | 520 | 0.88700881 | |
| 1 | 137,550,000 | 137,700,000 | 1835 | 394 | 0.725559475 | |
| 1 | 137,625,000 | 137,775,000 | 1836 | 753 | -0.342117852 | |
| 1 | 137,700,000 | 137,850,000 | 1837 | 1062 | 0.068544115 | ENSBTAG00000035654 |
| 1 | 137,775,000 | 137,925,000 | 1838 | 780 | 0.570126779 | NPHP3-ACAD11,ENSBTAG00000035654 |
| 1 | 137,850,000 | 138,000,000 | 1839 | 688 | 0.830222409 | ACAD11,NPHP3-ACAD11,UBA5 |
| 1 | 137,925,000 | 138,075,000 | 1840 | 804 | 0.766423923 | ACAD11,ACKR4,NPHP3-ACAD11,UBA5 |
| 1 | 138,000,000 | 138,150,000 | 1841 | 1057 | 0.159535926 | ACAD11,ACKR4,DNAJC13 |
| 1 | 138,075,000 | 138,225,000 | 1842 | 1740 | 0.059562321 | ACAD11,DNAJC13 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 138,150,000 | 138,300,000 | 1843 | 1772 | 0.307776658 | DNAJC13 |
| 1 | 138,225,000 | 138,375,000 | 1844 | 1383 | 1.152326393 | ACPP,DNAJC13 |
| 1 | 138,300,000 | 138,450,000 | 1845 | 1215 | 1.058016064 | ACPP,DNAJC13 |
| 1 | 138,375,000 | 138,525,000 | 1846 | 947 | -0.663465437 | ACPP,KCNH8 |
| 1 | 138,450,000 | 138,600,000 | 1847 | 838 | -0.728086926 | KCNH8 |
| 1 | 138,525,000 | 138,675,000 | 1848 | 997 | -0.226667888 | KCNH8 |
| 1 | 138,600,000 | 138,750,000 | 1849 | 1359 | 0.025711594 | KCNH8 |
| 1 | 138,675,000 | 138,825,000 | 1850 | 1256 | 0.561075734 | KCNH8 |
| 1 | 138,750,000 | 138,900,000 | 1851 | 1176 | 0.673424799 | |
| 1 | 138,825,000 | 138,975,000 | 1852 | 1144 | 0.871158265 | |
| 1 | 138,900,000 | 139,050,000 | 1853 | 830 | 0.23833152 | |
| 1 | 138,975,000 | 139,125,000 | 1854 | 574 | -0.28768491 | |
| 1 | 139,050,000 | 139,200,000 | 1855 | 390 | 0.287797741 | |
| 1 | 139,125,000 | 139,275,000 | 1856 | 754 | 0.931150226 | |
| 1 | 139,200,000 | 139,350,000 | 1857 | 1401 | 1.126080913 | |
| 1 | 139,275,000 | 139,425,000 | 1858 | 1088 | 1.08550032 | |
| 1 | 139,350,000 | 139,500,000 | 1859 | 590 | 0.717687272 | |
| 1 | 139,425,000 | 139,575,000 | 1860 | 891 | 0.68844754 | |
| 1 | 139,500,000 | 139,650,000 | 1861 | 1205 | 0.84262894 | |
| 1 | 139,575,000 | 139,725,000 | 1862 | 1113 | 0.962728653 | CPNE4 |
| 1 | 139,650,000 | 139,800,000 | 1863 | 1012 | 0.935291962 | CPNE4 |
| 1 | 139,725,000 | 139,875,000 | 1864 | 864 | 0.838873102 | CPNE4 |
| 1 | 139,800,000 | 139,950,000 | 1865 | 792 | 0.664431065 | CPNE4,MRPL3 |
| 1 | 139,875,000 | 140,025,000 | 1866 | 1102 | 0.70032598 | MRPL3 |
| 1 | 139,950,000 | 140,100,000 | 1867 | 1080 | 0.57630067 | NEK11,NUDT16 |
| 1 | 140,025,000 | 140,175,000 | 1868 | 744 | 0.437699899 | NEK11,NUDT16 |
| 1 | 140,100,000 | 140,250,000 | 1869 | 580 | 0.32832739 | NEK11 |
| 1 | 140,175,000 | 140,325,000 | 1870 | 882 | -0.295061711 | NEK11 |
| 1 | 140,250,000 | 140,400,000 | 1871 | 999 | -0.207967775 | ASTE1,ATP2C1,NEK11 |
| 1 | 140,325,000 | 140,475,000 | 1872 | 920 | 0.287984399 | ASTE1,ATP2C1,NEK11,ENSBTAG00000035701 |
| 1 | 140,400,000 | 140,550,000 | 1873 | 1190 | 0.020158308 | ATP2C1,ENSBTAG00000035701 |
| 1 | 140,475,000 | 140,625,000 | 1874 | 1336 | -0.594033974 | ATP2C1,RPL38 |
| 1 | 140,550,000 | 140,700,000 | 1875 | 1328 | -1.542696544 | RPL38 |
| 1 | 140,625,000 | 140,775,000 | 1876 | 884 | -2.438204205 | BRWD1,PSMG1 |
| 1 | 140,700,000 | 140,850,000 | 1877 | 337 | -2.377019085 | BRWD1,PSMG1 |
| 1 | 140,775,000 | 140,925,000 | 1878 | 322 | 0.595518218 | BRWD1,HMGN1,SETMAR |
| 1 | 140,850,000 | 141,000,000 | 1879 | 429 | 0.903539071 | BRWD1,HMGN1,LCA5L,SETMAR,WRB |
| 1 | 140,925,000 | 141,075,000 | 1880 | 367 | 0.696965597 | LCA5L,SETMAR,SH3BGR,WRB |
| 1 | 141,000,000 | 141,150,000 | 1881 | 619 | 0.911380079 | LCA5L,SH3BGR |
| 1 | 141,075,000 | 141,225,000 | 1882 | 815 | 0.632903098 | SH3BGR |
| 1 | 141,150,000 | 141,300,000 | 1883 | 463 | -0.051614868 | B3GALT5 |
| 1 | 141,225,000 | 141,375,000 | 1884 | 520 | 0.553075774 | B3GALT5,IGSF5 |
| 1 | 141,300,000 | 141,450,000 | 1885 | 1390 | 1.009636382 | IGSF5 |
| 1 | 141,375,000 | 141,525,000 | 1886 | 1586 | 1.080107765 | IGSF5 |
| 1 | 141,450,000 | 141,600,000 | 1887 | 1202 | 0.749766479 | |
| 1 | 141,525,000 | 141,675,000 | 1888 | 1041 | 0.32342124 | DSCAM |
| 1 | 141,600,000 | 141,750,000 | 1889 | 977 | -0.232075234 | DSCAM |
| 1 | 141,675,000 | 141,825,000 | 1890 | 1097 | 0.151910262 | DSCAM |
| 1 | 141,750,000 | 141,900,000 | 1891 | 1019 | -0.625887608 | DSCAM |
| 1 | 141,825,000 | 141,975,000 | 1892 | 1149 | -1.816565232 | DSCAM |
| 1 | 141,900,000 | 142,050,000 | 1893 | 1225 | -0.598589645 | DSCAM |
| 1 | 141,975,000 | 142,125,000 | 1894 | 1075 | 0.055562064 | DSCAM |
| 1 | 142,050,000 | 142,200,000 | 1895 | 1320 | 0.667842521 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 1 | 142,125,000 | 142,275,000 | 1896 | 1372 | 0.867924512 | |
| 1 | 142,200,000 | 142,350,000 | 1897 | 1483 | 0.927538666 | |
| 1 | 142,275,000 | 142,425,000 | 1898 | 1217 | 0.932895685 | |
| 1 | 142,350,000 | 142,500,000 | 1899 | 828 | 0.197801297 | |
| 1 | 142,425,000 | 142,575,000 | 1900 | 1080 | 0.076478061 | |
| 1 | 142,500,000 | 142,650,000 | 1901 | 829 | -0.129384916 | |
| 1 | 142,575,000 | 142,725,000 | 1902 | 499 | 0.144194638 | |
| 1 | 142,650,000 | 142,800,000 | 1903 | 416 | -0.309419157 | |
| 1 | 142,725,000 | 142,875,000 | 1904 | 492 | -0.210102054 | |
| 1 | 142,800,000 | 142,950,000 | 1905 | 505 | 0.025212633 | BACE2 |
| 1 | 142,875,000 | 143,025,000 | 1906 | 768 | -0.235918301 | BACE2 |
| 1 | 142,950,000 | 143,100,000 | 1907 | 1090 | -0.008311089 | BACE2,FAM3B |
| 1 | 143,025,000 | 143,175,000 | 1908 | 1096 | 0.346911209 | FAM3B,MX2 |
| 1 | 143,100,000 | 143,250,000 | 1909 | 1392 | 0.809132255 | FAM3B,MX1,MX2,TMPRSS2 |
| 1 | 143,175,000 | 143,325,000 | 1910 | 1446 | 0.863661538 | MX1,TMPRSS2 |
| 1 | 143,250,000 | 143,400,000 | 1911 | 1518 | 0.445299015 | ENSBTAG00000045771,ENSBTAG00000046015 |
| 1 | 143,325,000 | 143,475,000 | 1912 | 1697 | 0.623641537 | ENSBTAG00000045771,ENSBTAG00000046015 |
| 1 | 143,400,000 | 143,550,000 | 1913 | 1463 | 0.974441074 | RIPK4 |
| 1 | 143,475,000 | 143,625,000 | 1914 | 1002 | 0.156438354 | PRDM15,RIPK4 |
| 1 | 143,550,000 | 143,700,000 | 1915 | 526 | -0.795070012 | C2CD2,PRDM15 |
| 1 | 143,625,000 | 143,775,000 | 1916 | 354 | 0.272590657 | C2CD2,ZNF295 |
| 1 | 143,700,000 | 143,850,000 | 1917 | 907 | 1.299183952 | C2CD2,UMODL1,ZNF295 |
| 1 | 143,775,000 | 143,925,000 | 1918 | 1774 | 1.236063019 | UMODL1 |
| 1 | 143,850,000 | 144,000,000 | 1919 | 1738 | 0.947228687 | ABCG1,UMODL1 |
| 1 | 143,925,000 | 144,075,000 | 1920 | 1126 | -0.3742603 | ABCG1,TFF3 |
| 1 | 144,000,000 | 144,150,000 | 1921 | 572 | -1.529279872 | ABCG1,TFF3 |
| 1 | 144,075,000 | 144,225,000 | 1922 | 1001 | 0.029742659 | TFF1,TFF2,TMPRSS3 |
| 1 | 144,150,000 | 144,300,000 | 1923 | 1160 | 0.485826995 | TFF1,TFF2,TMPRSS3,UBASH3A |
| 1 | 144,225,000 | 144,375,000 | 1924 | 860 | 0.821483937 | RSPH1,SLC37A1,TMPRSS3,UBASH3A |
| 1 | 144,300,000 | 144,450,000 | 1925 | 1174 | -1.148600273 | RSPH1,SLC37A1 |
| 1 | 144,375,000 | 144,525,000 | 1926 | 1136 | -2.309975224 | PDE9A,SLC37A1 |
| 1 | 144,450,000 | 144,600,000 | 1927 | 787 | -1.070469115 | PDE9A |
| 1 | 144,525,000 | 144,675,000 | 1928 | 642 | -0.287338162 | PDE9A,WDR4,ENSBTAG00000046859 |
| 1 | 144,600,000 | 144,750,000 | 1929 | 841 | -1.418814331 | NDUFV3,PDE9A,WDR4,ENSBTAG00000046859 |
| 1 | 144,675,000 | 144,825,000 | 1930 | 1035 | -0.5047928 | NDUFV3,PKNOX1,WDR4,ENSBTAG00000000160 |
| 1 | 144,750,000 | 144,900,000 | 1931 | 859 | 0.740233819 | CRYAA,PKNOX1,U2AF1,ENSBTAG00000000160 |
| 1 | 144,825,000 | 144,975,000 | 1932 | 826 | -1.657824538 | CRYAA,U2AF1 |
| 1 | 144,900,000 | 145,050,000 | 1933 | 765 | -1.985312635 | SUMO3 |
| 1 | 144,975,000 | 145,125,000 | 1934 | 473 | -0.553430905 | ITGB2,PTTG1IP,SUMO3 |
| 1 | 145,050,000 | 145,200,000 | 1935 | 1008 | -1.507689696 | C1H21ORF70,ITGB2,PTTG1IP |
| 1 | 145,125,000 | 145,275,000 | 1936 | 1416 | -1.209738861 | C1H21ORF70,ITGB2 |
| 1 | 145,200,000 | 145,350,000 | 1937 | 788 | -0.374482847 | |
| 1 | 145,275,000 | 145,425,000 | 1938 | 128 | 0.803798361 | |
| 1 | 145,350,000 | 145,500,000 | 1939 | 256 | 0.870785561 | |
| 1 | 145,425,000 | 145,575,000 | 1940 | 788 | 0.455412515 | ADARB1 |
| 1 | 145,500,000 | 145,650,000 | 1941 | 896 | -0.350653961 | ADARB1,POFUT2 |
| 1 | 145,575,000 | 145,725,000 | 1942 | 760 | -0.04748457 | POFUT2,ENSBTAG00000014880,ENSBTAG00000014882 |
| 1 | 145,650,000 | 145,800,000 | 1943 | 804 | 1.146264932 | AIRE,PFKL,ENSBTAG00000014880,ENSBTAG00000014882 |
| 1 | 145,725,000 | 145,875,000 | 1944 | 815 | 0.98309441 | AIRE,C1H21ORF2,PFKL,TRPM2 |
| 1 | 145,800,000 | 145,950,000 | 1945 | 1115 | 0.781936111 | C1H21ORF2,KRTAP10-8,LRRRC3,TRPM2,TSPEAR,ENSBTAG00000037662 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 145,875,000 | 146,025,000 | 1946 | 1168 | 0.679468414 | KRTAP10-8,KRTAP12- 2,LRR3,TSPEAR,ENSBTAG00000030862,ENSBTAG000000 37662 |
| 1 | 145,950,000 | 146,100,000 | 1947 | 912 | 0.789372254 | KRTAP10-2,KRTAP12- 2,TSPEAR,ENSBTAG00000011012,ENSBTAG00000030862 |
| 1 | 146,025,000 | 146,175,000 | 1948 | 843 | 0.351300974 | KRTAP10-2,UBE2G2,ENSBTAG00000011012 |
| 1 | 146,100,000 | 146,250,000 | 1949 | 774 | 0.740962453 | UBE2G2,ENSBTAG00000011437 |
| 1 | 146,175,000 | 146,325,000 | 1950 | 829 | 0.906132419 | ENSBTAG00000011437 |
| 1 | 146,250,000 | 146,400,000 | 1951 | 624 | 0.807972464 | HSF2BP |
| 1 | 146,325,000 | 146,475,000 | 1952 | 446 | 0.624909166 | HSF2BP,RRP1B |
| 1 | 146,400,000 | 146,550,000 | 1953 | 678 | 0.331765936 | CSTB,HSF2BP,PDXK,RRP1B |
| 1 | 146,475,000 | 146,625,000 | 1954 | 759 | 0.493625596 | CSTB,PDXK,RRP1 |
| 1 | 146,550,000 | 146,700,000 | 1955 | 550 | 0.66386242 | CSTB,RRP1 |
| 1 | 146,625,000 | 146,775,000 | 1956 | 673 | 0.9697102 | AGPAT3 |
| 1 | 146,700,000 | 146,850,000 | 1957 | 751 | 1.08514424 | AGPAT3,ENSBTAG00000007100,ENSBTAG00000007105 |
| 1 | 146,775,000 | 146,925,000 | 1958 | 586 | 0.135983448 | ES1,ENSBTAG00000007100,ENSBTAG00000007105 |
| 1 | 146,850,000 | 147,000,000 | 1959 | 551 | -0.450499978 | COL18A1,ES1,ENSBTAG00000007105 |
| 1 | 146,925,000 | 147,075,000 | 1960 | 569 | -0.296306454 | COL18A1,SLC19A1 |
| 1 | 147,000,000 | 147,150,000 | 1961 | 780 | -1.513387939 | COL18A1,PCBP3,SLC19A1 |
| 1 | 147,075,000 | 147,225,000 | 1962 | 604 | -2.009781476 | PCBP3 |
| 1 | 147,150,000 | 147,300,000 | 1963 | 273 | -1.171929472 | PCBP3 |
| 1 | 147,225,000 | 147,375,000 | 1964 | 593 | 0.009562962 | PCBP3 |
| 1 | 147,300,000 | 147,450,000 | 1965 | 870 | 0.47639466 | COL6A1,PCBP3 |
| 1 | 147,375,000 | 147,525,000 | 1966 | 718 | 0.496860387 | COL6A1 |
| 1 | 147,450,000 | 147,600,000 | 1967 | 506 | 0.34503041 | COL6A2,FTCD |
| 1 | 147,525,000 | 147,675,000 | 1968 | 584 | 0.548160298 | C1H21ORF56,COL6A2,FTCD,LSS,MCM3AP |
| 1 | 147,600,000 | 147,750,000 | 1969 | 1007 | 0.625668844 | C1H21ORF56,C21orf58,LSS,MCM3AP,PCNT,YBEY |
| 1 | 147,675,000 | 147,825,000 | 1970 | 1371 | 0.888760804 | C21orf58,MCM3AP,PCNT,YBEY |
| 1 | 147,750,000 | 147,900,000 | 1971 | 1429 | 0.749427677 | DIP2A,PCNT |
| 1 | 147,825,000 | 147,975,000 | 1972 | 1542 | 0.187260805 | DIP2A,PCNT |
| 1 | 147,900,000 | 148,050,000 | 1973 | 1435 | 0.284132102 | DIP2A,S100B |
| 1 | 147,975,000 | 148,125,000 | 1974 | 1238 | 0.719518289 | DIP2A,HRMT1L1,S100B |
| 1 | 148,050,000 | 148,200,000 | 1975 | 1174 | 0.694741989 | HRMT1L1 |
| 1 | 148,125,000 | 148,275,000 | 1976 | 727 | 0.761985984 | FBXO25 |
| 1 | 148,200,000 | 148,350,000 | 1977 | 366 | 0.721749882 | FBXO25,TDRP |
| 1 | 148,275,000 | 148,425,000 | 1978 | 322 | 0.918275366 | FBXO25,TDRP |
| 1 | 148,350,000 | 148,500,000 | 1979 | 518 | 0.972163003 | |
| 1 | 148,425,000 | 148,575,000 | 1980 | 765 | 0.907760759 | ENSBTAG00000046447 |
| 1 | 148,500,000 | 148,650,000 | 1981 | 746 | 0.845284166 | ENSBTAG00000046447 |
| 1 | 148,575,000 | 148,725,000 | 1982 | 494 | 0.404092478 | RUNX1,ENSBTAG00000046447 |
| 1 | 148,650,000 | 148,800,000 | 1983 | 565 | -1.228518497 | RUNX1 |
| 1 | 148,725,000 | 148,875,000 | 1984 | 656 | -2.024680294 | RUNX1 |
| 1 | 148,800,000 | 148,950,000 | 1985 | 710 | -0.834985377 | |
| 1 | 148,875,000 | 149,025,000 | 1986 | 841 | -0.748536264 | |
| 1 | 148,950,000 | 149,100,000 | 1987 | 801 | -1.948420979 | |
| 1 | 149,025,000 | 149,175,000 | 1988 | 578 | -1.256607454 | |
| 1 | 149,100,000 | 149,250,000 | 1989 | 481 | 0.487983043 | |
| 1 | 149,175,000 | 149,325,000 | 1990 | 469 | 0.530389258 | |
| 1 | 149,250,000 | 149,400,000 | 1991 | 696 | 0.770604929 | |
| 1 | 149,325,000 | 149,475,000 | 1992 | 1167 | 0.777911498 | |
| 1 | 149,400,000 | 149,550,000 | 1993 | 839 | 0.669329652 | |
| 1 | 149,475,000 | 149,625,000 | 1994 | 828 | -0.873691632 | |
| 1 | 149,550,000 | 149,700,000 | 1995 | 802 | -1.00253626 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 149,625,000 | 149,775,000 | 1996 | 594 | 0.174535686 | |
| 1 | 149,700,000 | 149,850,000 | 1997 | 801 | 0.630960436 | |
| 1 | 149,775,000 | 149,925,000 | 1998 | 572 | 0.735054519 | |
| 1 | 149,850,000 | 150,000,000 | 1999 | 503 | 0.324457642 | |
| 1 | 149,925,000 | 150,075,000 | 2000 | 573 | 0.68165642 | SETD4,ENSBTAG00000023384 |
| 1 | 150,000,000 | 150,150,000 | 2001 | 474 | 0.690515956 | CBR3,MGC127133,SETD4,ENSBTAG00000023384 |
| 1 | 150,075,000 | 150,225,000 | 2002 | 847 | 0.907409878 | CBR3,DOPEY2,MGC127133 |
| 1 | 150,150,000 | 150,300,000 | 2003 | 1370 | 1.051472074 | CBR3,DOPEY2 |
| 1 | 150,225,000 | 150,375,000 | 2004 | 965 | 0.983788728 | CHAF1B,DOPEY2,MORC3 |
| 1 | 150,300,000 | 150,450,000 | 2005 | 529 | 0.423346292 | CHAF1B,CLDN14,MORC3 |
| 1 | 150,375,000 | 150,525,000 | 2006 | 666 | 0.889289638 | CHAF1B,CLDN14 |
| 1 | 150,450,000 | 150,600,000 | 2007 | 800 | 1.17934948 | |
| 1 | 150,525,000 | 150,675,000 | 2008 | 915 | 0.463291542 | |
| 1 | 150,600,000 | 150,750,000 | 2009 | 705 | 0.152654175 | HLCS,SIM2 |
| 1 | 150,675,000 | 150,825,000 | 2010 | 499 | 0.858239445 | HLCS,SIM2 |
| 1 | 150,750,000 | 150,900,000 | 2011 | 504 | 0.919145708 | HLCS |
| 1 | 150,825,000 | 150,975,000 | 2012 | 581 | 0.79146664 | HLCS,RIPPLY3 |
| 1 | 150,900,000 | 151,050,000 | 2013 | 777 | 0.80596957 | HLCS,PIGP,RIPPLY3,TTC3 |
| 1 | 150,975,000 | 151,125,000 | 2014 | 858 | 0.864336487 | PIGP,TTC3 |
| 1 | 151,050,000 | 151,200,000 | 2015 | 956 | 1.002277478 | DSCR3,TTC3 |
| 1 | 151,125,000 | 151,275,000 | 2016 | 707 | 0.842051203 | DSCR3,TTC3 |
| 1 | 151,200,000 | 151,350,000 | 2017 | 330 | -0.049766339 | |
| 1 | 151,275,000 | 151,425,000 | 2018 | 409 | 0.4704635 | DYRK1A |
| 1 | 151,350,000 | 151,500,000 | 2019 | 624 | -0.522841378 | DYRK1A |
| 1 | 151,425,000 | 151,575,000 | 2020 | 719 | -0.539590593 | |
| 1 | 151,500,000 | 151,650,000 | 2021 | 763 | -1.13530789 | KCNJ6 |
| 1 | 151,575,000 | 151,725,000 | 2022 | 874 | -0.939199458 | KCNJ6 |
| 1 | 151,650,000 | 151,800,000 | 2023 | 1127 | -0.346981509 | |
| 1 | 151,725,000 | 151,875,000 | 2024 | 1061 | -1.12871277 | |
| 1 | 151,800,000 | 151,950,000 | 2025 | 724 | -0.717244638 | |
| 1 | 151,875,000 | 152,025,000 | 2026 | 681 | 0.501331696 | |
| 1 | 151,950,000 | 152,100,000 | 2027 | 684 | 0.564990714 | |
| 1 | 152,025,000 | 152,175,000 | 2028 | 687 | -0.044172692 | |
| 1 | 152,100,000 | 152,250,000 | 2029 | 722 | -0.522553715 | |
| 1 | 152,175,000 | 152,325,000 | 2030 | 633 | 0.14972189 | KCNJ15 |
| 1 | 152,250,000 | 152,400,000 | 2031 | 773 | 0.843260633 | ERG,KCNJ15 |
| 1 | 152,325,000 | 152,475,000 | 2032 | 744 | 0.60098687 | ERG |
| 1 | 152,400,000 | 152,550,000 | 2033 | 497 | 0.085203948 | ERG |
| 1 | 152,475,000 | 152,625,000 | 2034 | 449 | 0.0059596 | ERG |
| 1 | 152,550,000 | 152,700,000 | 2035 | 551 | -0.571901428 | |
| 1 | 152,625,000 | 152,775,000 | 2036 | 919 | -0.218002304 | |
| 1 | 152,700,000 | 152,850,000 | 2037 | 1186 | 0.251834984 | |
| 1 | 152,775,000 | 152,925,000 | 2038 | 1240 | 0.335763394 | ETS2 |
| 1 | 152,850,000 | 153,000,000 | 2039 | 1167 | 0.203870809 | ETS2 |
| 1 | 152,925,000 | 153,075,000 | 2040 | 1378 | 0.529460135 | |
| 1 | 153,000,000 | 153,150,000 | 2041 | 1362 | -0.014596687 | |
| 1 | 153,075,000 | 153,225,000 | 2042 | 974 | -1.941369109 | |
| 1 | 153,150,000 | 153,300,000 | 2043 | 871 | -1.761656003 | PIK3R4 |
| 1 | 153,225,000 | 153,375,000 | 2044 | 968 | 0.000173219 | COL6A6,PIK3R4 |
| 1 | 153,300,000 | 153,450,000 | 2045 | 1298 | 0.289008158 | COL6A6,PIK3R4 |
| 1 | 153,375,000 | 153,525,000 | 2046 | 1542 | 0.11701961 | COL6A6 |
| 1 | 153,450,000 | 153,600,000 | 2047 | 1413 | 0.313674815 | ENSBTAG00000021906 |
| 1 | 153,525,000 | 153,675,000 | 2048 | 1361 | 0.53068798 | ENSBTAG00000021906 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-------------------------|
| 1 | 153,600,000 | 153,750,000 | 2049 | 1241 | 0.572496962 | |
| 1 | 153,675,000 | 153,825,000 | 2050 | 1337 | 0.208527444 | ENSBTAG00000021139 |
| 1 | 153,750,000 | 153,900,000 | 2051 | 1559 | -0.421906502 | ENSBTAG00000021139 |
| 1 | 153,825,000 | 153,975,000 | 2052 | 1908 | 0.172484043 | CAPN7 |
| 1 | 153,900,000 | 154,050,000 | 2053 | 2204 | 0.719771594 | CAPN7,SH3BP5 |
| 1 | 153,975,000 | 154,125,000 | 2054 | 1886 | 0.604912976 | CAPN7,SH3BP5 |
| 1 | 154,050,000 | 154,200,000 | 2055 | 1683 | 0.3134798 | EAF1,METTL6,SH3BP5,UBL5 |
| 1 | 154,125,000 | 154,275,000 | 2056 | 1685 | 0.205202155 | COLQ,EAF1,METTL6,UBL5 |
| 1 | 154,200,000 | 154,350,000 | 2057 | 1541 | 0.851842081 | COLQ,EAF1,HACL1 |
| 1 | 154,275,000 | 154,425,000 | 2058 | 1157 | 0.566725477 | BTD,COLQ,HACL1 |
| 1 | 154,350,000 | 154,500,000 | 2059 | 790 | -0.04884045 | ANKRD28,BTD,HACL1 |
| 1 | 154,425,000 | 154,575,000 | 2060 | 677 | 0.444584342 | ANKRD28 |
| 1 | 154,500,000 | 154,650,000 | 2061 | 1023 | 0.58533162 | ANKRD28 |
| 1 | 154,575,000 | 154,725,000 | 2062 | 1125 | 0.784462569 | |
| 1 | 154,650,000 | 154,800,000 | 2063 | 1146 | 0.752753302 | |
| 1 | 154,725,000 | 154,875,000 | 2064 | 1456 | 0.552716183 | |
| 1 | 154,800,000 | 154,950,000 | 2065 | 1564 | -0.450309243 | GALNT15 |
| 1 | 154,875,000 | 155,025,000 | 2066 | 1681 | -0.537692789 | DPH3,GALNT15,OXNAD1 |
| 1 | 154,950,000 | 155,100,000 | 2067 | 1666 | 0.468820165 | DPH3,GALNT15,OXNAD1 |
| 1 | 155,025,000 | 155,175,000 | 2068 | 1455 | -0.028058745 | OXNAD1 |
| 1 | 155,100,000 | 155,250,000 | 2069 | 1272 | -0.144010972 | OXNAD1,RFTN1 |
| 1 | 155,175,000 | 155,325,000 | 2070 | 1360 | 0.162341938 | RFTN1 |
| 1 | 155,250,000 | 155,400,000 | 2071 | 1375 | 0.419350205 | DAZL |
| 1 | 155,325,000 | 155,475,000 | 2072 | 1044 | 0.764063795 | DAZL |
| 1 | 155,400,000 | 155,550,000 | 2073 | 836 | 0.093525417 | DAZL |
| 1 | 155,475,000 | 155,625,000 | 2074 | 743 | -1.486222972 | PLCL2 |
| 1 | 155,550,000 | 155,700,000 | 2075 | 662 | -1.206857269 | PLCL2 |
| 1 | 155,625,000 | 155,775,000 | 2076 | 769 | 1.055359295 | PLCL2 |
| 1 | 155,700,000 | 155,850,000 | 2077 | 809 | 1.165245364 | PLCL2,TBC1D5 |
| 1 | 155,775,000 | 155,925,000 | 2078 | 616 | 0.159102092 | PLCL2,TBC1D5 |
| 1 | 155,850,000 | 156,000,000 | 2079 | 456 | -0.399543511 | TBC1D5 |
| 1 | 155,925,000 | 156,075,000 | 2080 | 514 | -0.649356372 | TBC1D5 |
| 1 | 156,000,000 | 156,150,000 | 2081 | 529 | -0.693438541 | TBC1D5 |
| 1 | 156,075,000 | 156,225,000 | 2082 | 513 | -0.499400841 | TBC1D5 |
| 1 | 156,150,000 | 156,300,000 | 2083 | 766 | -1.440743795 | TBC1D5 |
| 1 | 156,225,000 | 156,375,000 | 2084 | 848 | -1.606523379 | |
| 1 | 156,300,000 | 156,450,000 | 2085 | 598 | -0.678176317 | |
| 1 | 156,375,000 | 156,525,000 | 2086 | 805 | -0.304675914 | |
| 1 | 156,450,000 | 156,600,000 | 2087 | 959 | -0.365887508 | |
| 1 | 156,525,000 | 156,675,000 | 2088 | 1054 | 0.567120713 | |
| 1 | 156,600,000 | 156,750,000 | 2089 | 1078 | 0.740213493 | |
| 1 | 156,675,000 | 156,825,000 | 2090 | 836 | 0.297751122 | |
| 1 | 156,750,000 | 156,900,000 | 2091 | 941 | 0.528630868 | |
| 1 | 156,825,000 | 156,975,000 | 2092 | 1197 | 0.866545975 | |
| 1 | 156,900,000 | 157,050,000 | 2093 | 1683 | 0.517520181 | |
| 1 | 156,975,000 | 157,125,000 | 2094 | 1468 | 0.224826015 | |
| 1 | 157,050,000 | 157,200,000 | 2095 | 886 | 0.176589281 | SATB1 |
| 1 | 157,125,000 | 157,275,000 | 2096 | 713 | 0.231751079 | SATB1 |
| 1 | 157,200,000 | 157,350,000 | 2097 | 590 | -0.225576971 | SATB1 |
| 1 | 157,275,000 | 157,425,000 | 2098 | 865 | -0.861936568 | |
| 1 | 157,350,000 | 157,500,000 | 2099 | 1061 | -0.388123945 | |
| 1 | 157,425,000 | 157,575,000 | 2100 | 915 | 0.767514575 | |
| 1 | 157,500,000 | 157,650,000 | 2101 | 849 | 1.043901037 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-----------------------------|
| 1 | 157,575,000 | 157,725,000 | 2102 | 991 | 0.617841271 | |
| 1 | 157,650,000 | 157,800,000 | 2103 | 1352 | 0.311132803 | |
| 1 | 157,725,000 | 157,875,000 | 2104 | 1509 | 0.461925267 | |
| 1 | 157,800,000 | 157,950,000 | 2105 | 1475 | -0.028993877 | |
| 1 | 157,875,000 | 158,025,000 | 2106 | 1647 | 0.018639003 | |
| 1 | 157,950,000 | 158,100,000 | 2107 | 1836 | 0.931042086 | |
| 1 | 158,025,000 | 158,175,000 | 2108 | 1447 | 0.965133508 | |
| 1 | 158,100,000 | 158,250,000 | 2109 | 1047 | 0.627933979 | |
| 1 | 158,175,000 | 158,325,000 | 2110 | 1123 | 0.348471872 | ENSBTAG00000047978 |
| 1 | 158,250,000 | 158,337,067 | 2111 | 682 | 0.2812599 | ENSBTAG00000047978 |
| 2 | 0 | 150,000 | 1 | 891 | 0.474520573 | |
| 2 | 75,000 | 225,000 | 2 | 788 | 0.554608117 | |
| 2 | 150,000 | 300,000 | 3 | 481 | 0.236003963 | LGSN |
| 2 | 225,000 | 375,000 | 4 | 473 | -0.055638102 | LGSN,OCA2 |
| 2 | 300,000 | 450,000 | 5 | 574 | -0.126785517 | LGSN,OCA2 |
| 2 | 375,000 | 525,000 | 6 | 643 | -0.189483248 | OCA2 |
| 2 | 450,000 | 600,000 | 7 | 892 | 0.043825074 | OCA2 |
| 2 | 525,000 | 675,000 | 8 | 1152 | -1.279544003 | HERC2,OCA2 |
| 2 | 600,000 | 750,000 | 9 | 843 | -2.140702009 | HERC2 |
| 2 | 675,000 | 825,000 | 10 | 492 | 0.011034614 | HERC2 |
| 2 | 750,000 | 900,000 | 11 | 671 | 0.535900642 | HERC2 |
| 2 | 825,000 | 975,000 | 12 | 789 | -0.139000845 | HERC2,NIPA1,NIPA2 |
| 2 | 900,000 | 1,050,000 | 13 | 760 | -0.778144686 | CYFIP1,NIPA1,NIPA2 |
| 2 | 975,000 | 1,125,000 | 14 | 597 | -0.858502455 | CYFIP1,NIPA2 |
| 2 | 1,050,000 | 1,200,000 | 15 | 412 | 0.067769486 | CYFIP1,TUBGCP5 |
| 2 | 1,125,000 | 1,275,000 | 16 | 439 | 0.535608264 | CCDC115,IMP4,PTPN18,TUBGCP5 |
| 2 | 1,200,000 | 1,350,000 | 17 | 549 | 0.097658388 | CCDC115,IMP4,PTPN18,TUBGCP5 |
| 2 | 1,275,000 | 1,425,000 | 18 | 646 | -1.68865797 | AMER3,PTPN18 |
| 2 | 1,350,000 | 1,500,000 | 19 | 508 | -2.126545786 | AMER3 |
| 2 | 1,425,000 | 1,575,000 | 20 | 604 | -0.747056122 | |
| 2 | 1,500,000 | 1,650,000 | 21 | 731 | -2.023053047 | ARHGEF4 |
| 2 | 1,575,000 | 1,725,000 | 22 | 427 | -3.584754883 | ARHGEF4 |
| 2 | 1,650,000 | 1,800,000 | 23 | 589 | 0.251776093 | ARHGEF4,FAM168B |
| 2 | 1,725,000 | 1,875,000 | 24 | 835 | 0.522405742 | ARHGEF4,FAM168B,PLEKHB2 |
| 2 | 1,800,000 | 1,950,000 | 25 | 815 | -0.017699425 | FAM168B,PLEKHB2 |
| 2 | 1,875,000 | 2,025,000 | 26 | 566 | -0.051842249 | PLEKHB2 |
| 2 | 1,950,000 | 2,100,000 | 27 | 301 | 0.267559646 | |
| 2 | 2,025,000 | 2,175,000 | 28 | 314 | -0.007748941 | |
| 2 | 2,100,000 | 2,250,000 | 29 | 476 | 0.101482981 | |
| 2 | 2,175,000 | 2,325,000 | 30 | 1079 | -0.790014101 | |
| 2 | 2,250,000 | 2,400,000 | 31 | 1025 | -1.795857501 | |
| 2 | 2,325,000 | 2,475,000 | 32 | 456 | -3.929399491 | |
| 2 | 2,400,000 | 2,550,000 | 33 | 351 | -1.794497479 | |
| 2 | 2,475,000 | 2,625,000 | 34 | 492 | -3.783905338 | |
| 2 | 2,550,000 | 2,700,000 | 35 | 565 | -3.402925164 | |
| 2 | 2,625,000 | 2,775,000 | 36 | 674 | -0.768292634 | |
| 2 | 2,700,000 | 2,850,000 | 37 | 670 | -0.299969562 | |
| 2 | 2,775,000 | 2,925,000 | 38 | 512 | -0.632586045 | |
| 2 | 2,850,000 | 3,000,000 | 39 | 628 | -2.896016155 | |
| 2 | 2,925,000 | 3,075,000 | 40 | 704 | -1.768827501 | |
| 2 | 3,000,000 | 3,150,000 | 41 | 543 | 0.536023128 | |
| 2 | 3,075,000 | 3,225,000 | 42 | 575 | 0.398794492 | |
| 2 | 3,150,000 | 3,300,000 | 43 | 921 | 0.315950731 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---------------------------------|
| 2 | 3,225,000 | 3,375,000 | 44 | 879 | 0.902995016 | |
| 2 | 3,300,000 | 3,450,000 | 45 | 956 | 1.337055328 | |
| 2 | 3,375,000 | 3,525,000 | 46 | 1059 | 1.349140402 | |
| 2 | 3,450,000 | 3,600,000 | 47 | 781 | 1.364406895 | |
| 2 | 3,525,000 | 3,675,000 | 48 | 1052 | 1.250806831 | |
| 2 | 3,600,000 | 3,750,000 | 49 | 1585 | 0.738944932 | |
| 2 | 3,675,000 | 3,825,000 | 50 | 1194 | -0.127006235 | |
| 2 | 3,750,000 | 3,900,000 | 51 | 874 | 0.326072015 | |
| 2 | 3,825,000 | 3,975,000 | 52 | 981 | 1.113071742 | |
| 2 | 3,900,000 | 4,050,000 | 53 | 773 | 1.013349335 | |
| 2 | 3,975,000 | 4,125,000 | 54 | 681 | 0.553703133 | HS6ST1 |
| 2 | 4,050,000 | 4,200,000 | 55 | 1172 | 0.605512307 | HS6ST1 |
| 2 | 4,125,000 | 4,275,000 | 56 | 1585 | 0.069561746 | HS6ST1,UGGT1 |
| 2 | 4,200,000 | 4,350,000 | 57 | 1308 | -0.481535307 | UGGT1 |
| 2 | 4,275,000 | 4,425,000 | 58 | 879 | 0.269563668 | SAP130,UGGT1 |
| 2 | 4,350,000 | 4,500,000 | 59 | 606 | 0.472562282 | SAP130 |
| 2 | 4,425,000 | 4,575,000 | 60 | 787 | 0.210031411 | AMMECR1L,POLR2D,SAP130 |
| 2 | 4,500,000 | 4,650,000 | 61 | 740 | -0.103792006 | AMMECR1L,POLR2D,WDR33 |
| 2 | 4,575,000 | 4,725,000 | 62 | 411 | -0.502519805 | SFT2D3,WDR33 |
| 2 | 4,650,000 | 4,800,000 | 63 | 365 | -0.106615221 | LIMS2,SFT2D3,WDR33 |
| 2 | 4,725,000 | 4,875,000 | 64 | 688 | 0.989255469 | GPR17,LIMS2,MYO7B |
| 2 | 4,800,000 | 4,950,000 | 65 | 1002 | -0.266307015 | GPR17,IWS1,LIMS2,MYO7B |
| 2 | 4,875,000 | 5,025,000 | 66 | 728 | -1.536746256 | IWS1,MYO7B |
| 2 | 4,950,000 | 5,100,000 | 67 | 481 | -0.310161265 | IWS1,PROC |
| 2 | 5,025,000 | 5,175,000 | 68 | 511 | -0.772034914 | MAP3K2,PROC |
| 2 | 5,100,000 | 5,250,000 | 69 | 617 | -1.02592589 | CYP27C1,ERCC3,MAP3K2 |
| 2 | 5,175,000 | 5,325,000 | 70 | 867 | -0.888609639 | CYP27C1,ERCC3 |
| 2 | 5,250,000 | 5,400,000 | 71 | 857 | -1.075363321 | BIN1,CYP27C1,ENSBTAG00000034949 |
| 2 | 5,325,000 | 5,475,000 | 72 | 1030 | -0.758204883 | BIN1,ENSBTAG00000034949 |
| 2 | 5,400,000 | 5,550,000 | 73 | 1263 | -0.165306103 | BIN1,ENSBTAG00000017214 |
| 2 | 5,475,000 | 5,625,000 | 74 | 739 | 0.337246113 | NAB1,ENSBTAG00000017214 |
| 2 | 5,550,000 | 5,700,000 | 75 | 540 | 0.686258948 | NAB1 |
| 2 | 5,625,000 | 5,775,000 | 76 | 682 | -0.45174598 | MFSD6,TMEM194B |
| 2 | 5,700,000 | 5,850,000 | 77 | 708 | -0.458021318 | MFSD6,TMEM194B |
| 2 | 5,775,000 | 5,925,000 | 78 | 753 | 0.316084036 | INPP1,MFSD6 |
| 2 | 5,850,000 | 6,000,000 | 79 | 665 | -0.537152548 | HIBCH,INPP1 |
| 2 | 5,925,000 | 6,075,000 | 80 | 512 | -1.192592617 | C2H2orf88,HIBCH |
| 2 | 6,000,000 | 6,150,000 | 81 | 700 | -4.225261703 | C2H2orf88,HIBCH |
| 2 | 6,075,000 | 6,225,000 | 82 | 1012 | -1.863583961 | C2H2orf88,MSTN |
| 2 | 6,150,000 | 6,300,000 | 83 | 778 | 0.464356201 | MSTN |
| 2 | 6,225,000 | 6,375,000 | 84 | 512 | 0.714249053 | |
| 2 | 6,300,000 | 6,450,000 | 85 | 395 | 0.695519 | PMS1 |
| 2 | 6,375,000 | 6,525,000 | 86 | 299 | -0.114137037 | ORMDL1,PMS1 |
| 2 | 6,450,000 | 6,600,000 | 87 | 661 | 0.2399877 | ANKAR,ORMDL1,OSGEPL1,PMS1 |
| 2 | 6,525,000 | 6,675,000 | 88 | 984 | 0.931956192 | ANKAR,ASNSD1,OSGEPL1 |
| 2 | 6,600,000 | 6,750,000 | 89 | 1160 | 0.990658712 | ASNSD1,SLC40A1 |
| 2 | 6,675,000 | 6,825,000 | 90 | 1246 | 0.846557175 | SLC40A1 |
| 2 | 6,750,000 | 6,900,000 | 91 | 1413 | 0.14442028 | WDR75 |
| 2 | 6,825,000 | 6,975,000 | 92 | 1405 | -0.253860377 | WDR75 |
| 2 | 6,900,000 | 7,050,000 | 93 | 1063 | -0.985388478 | WDR75 |
| 2 | 6,975,000 | 7,125,000 | 94 | 969 | -2.21423497 | |
| 2 | 7,050,000 | 7,200,000 | 95 | 1142 | -0.13720857 | COL5A2 |
| 2 | 7,125,000 | 7,275,000 | 96 | 1106 | 1.01416817 | COL5A2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------|
| 2 | 7,200,000 | 7,350,000 | 97 | 714 | 0.807169285 | COL3A1,COL5A2 |
| 2 | 7,275,000 | 7,425,000 | 98 | 584 | 1.039135411 | COL3A1,COL5A2 |
| 2 | 7,350,000 | 7,500,000 | 99 | 679 | 0.867153976 | COL3A1 |
| 2 | 7,425,000 | 7,575,000 | 100 | 780 | 0.706866595 | |
| 2 | 7,500,000 | 7,650,000 | 101 | 938 | 0.13562549 | |
| 2 | 7,575,000 | 7,725,000 | 102 | 1092 | -0.049006241 | |
| 2 | 7,650,000 | 7,800,000 | 103 | 1075 | 0.018277006 | GULP1 |
| 2 | 7,725,000 | 7,875,000 | 104 | 809 | 0.412257465 | GULP1 |
| 2 | 7,800,000 | 7,950,000 | 105 | 668 | 1.361167649 | GULP1 |
| 2 | 7,875,000 | 8,025,000 | 106 | 696 | 1.03489443 | GULP1 |
| 2 | 7,950,000 | 8,100,000 | 107 | 864 | 0.387226327 | |
| 2 | 8,025,000 | 8,175,000 | 108 | 1330 | 0.053450376 | |
| 2 | 8,100,000 | 8,250,000 | 109 | 1142 | -0.467860219 | |
| 2 | 8,175,000 | 8,325,000 | 110 | 1140 | -0.720732995 | |
| 2 | 8,250,000 | 8,400,000 | 111 | 1627 | 0.240773501 | |
| 2 | 8,325,000 | 8,475,000 | 112 | 1652 | -0.327828772 | |
| 2 | 8,400,000 | 8,550,000 | 113 | 1643 | -0.786336505 | |
| 2 | 8,475,000 | 8,625,000 | 114 | 1840 | 1.02154322 | |
| 2 | 8,550,000 | 8,700,000 | 115 | 1603 | 1.283604421 | |
| 2 | 8,625,000 | 8,775,000 | 116 | 1527 | 1.167979822 | |
| 2 | 8,700,000 | 8,850,000 | 117 | 1550 | 1.108202177 | |
| 2 | 8,775,000 | 8,925,000 | 118 | 1187 | 0.892683648 | CALCRL |
| 2 | 8,850,000 | 9,000,000 | 119 | 977 | 0.322214445 | CALCRL |
| 2 | 8,925,000 | 9,075,000 | 120 | 710 | -0.134257982 | CALCRL |
| 2 | 9,000,000 | 9,150,000 | 121 | 857 | 0.618309601 | CALCRL |
| 2 | 9,075,000 | 9,225,000 | 122 | 1140 | 0.716751541 | |
| 2 | 9,150,000 | 9,300,000 | 123 | 813 | -0.049050584 | |
| 2 | 9,225,000 | 9,375,000 | 124 | 543 | -0.849436695 | |
| 2 | 9,300,000 | 9,450,000 | 125 | 531 | -1.55278651 | |
| 2 | 9,375,000 | 9,525,000 | 126 | 410 | -1.5214024 | ZSWIM2 |
| 2 | 9,450,000 | 9,600,000 | 127 | 506 | 0.127709682 | FAM171B,ZSWIM2 |
| 2 | 9,525,000 | 9,675,000 | 128 | 657 | 0.326186008 | FAM171B,ITGAV |
| 2 | 9,600,000 | 9,750,000 | 129 | 728 | 0.696476752 | ITGAV |
| 2 | 9,675,000 | 9,825,000 | 130 | 717 | 0.884742785 | ITGAV |
| 2 | 9,750,000 | 9,900,000 | 131 | 601 | 1.020965555 | ITGAV,ZC3H15 |
| 2 | 9,825,000 | 9,975,000 | 132 | 471 | 1.10589782 | ZC3H15 |
| 2 | 9,900,000 | 10,050,000 | 133 | 424 | 0.640629369 | |
| 2 | 9,975,000 | 10,125,000 | 134 | 439 | 0.295898075 | |
| 2 | 10,050,000 | 10,200,000 | 135 | 441 | -0.020927344 | |
| 2 | 10,125,000 | 10,275,000 | 136 | 504 | 0.614101683 | |
| 2 | 10,200,000 | 10,350,000 | 137 | 521 | 0.931748118 | |
| 2 | 10,275,000 | 10,425,000 | 138 | 889 | 0.627829481 | |
| 2 | 10,350,000 | 10,500,000 | 139 | 1347 | -0.004152544 | |
| 2 | 10,425,000 | 10,575,000 | 140 | 1219 | 0.371851402 | |
| 2 | 10,500,000 | 10,650,000 | 141 | 960 | 1.131399507 | FSIP2 |
| 2 | 10,575,000 | 10,725,000 | 142 | 714 | 1.182254262 | FSIP2 |
| 2 | 10,650,000 | 10,800,000 | 143 | 495 | 1.130009737 | FSIP2 |
| 2 | 10,725,000 | 10,875,000 | 144 | 358 | 0.511317556 | FSIP2 |
| 2 | 10,800,000 | 10,950,000 | 145 | 354 | 0.172743173 | |
| 2 | 10,875,000 | 11,025,000 | 146 | 772 | 1.191321277 | |
| 2 | 10,950,000 | 11,100,000 | 147 | 1110 | 1.113584911 | |
| 2 | 11,025,000 | 11,175,000 | 148 | 984 | -0.682681949 | |
| 2 | 11,100,000 | 11,250,000 | 149 | 638 | -2.876113278 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------------|
| 2 | 11,175,000 | 11,325,000 | 150 | 580 | -1.141653482 | |
| 2 | 11,250,000 | 11,400,000 | 151 | 963 | -1.98162123 | |
| 2 | 11,325,000 | 11,475,000 | 152 | 1123 | -2.014435496 | |
| 2 | 11,400,000 | 11,550,000 | 153 | 1248 | -0.131605916 | |
| 2 | 11,475,000 | 11,625,000 | 154 | 1191 | 0.447652129 | ZNF804A |
| 2 | 11,550,000 | 11,700,000 | 155 | 1063 | 0.780459069 | ZNF804A |
| 2 | 11,625,000 | 11,775,000 | 156 | 1064 | 0.647107592 | ENSBTAG00000038064 |
| 2 | 11,700,000 | 11,850,000 | 157 | 1164 | -0.171128159 | ENSBTAG00000038064 |
| 2 | 11,775,000 | 11,925,000 | 158 | 1297 | 0.394662752 | |
| 2 | 11,850,000 | 12,000,000 | 159 | 1149 | 0.487800681 | |
| 2 | 11,925,000 | 12,075,000 | 160 | 1416 | -0.601605385 | |
| 2 | 12,000,000 | 12,150,000 | 161 | 1566 | -0.442005557 | |
| 2 | 12,075,000 | 12,225,000 | 162 | 1090 | -0.478075237 | |
| 2 | 12,150,000 | 12,300,000 | 163 | 1017 | -1.385457534 | |
| 2 | 12,225,000 | 12,375,000 | 164 | 1036 | -0.341003957 | |
| 2 | 12,300,000 | 12,450,000 | 165 | 1261 | 1.256588847 | |
| 2 | 12,375,000 | 12,525,000 | 166 | 1431 | 0.99316919 | |
| 2 | 12,450,000 | 12,600,000 | 167 | 993 | 0.335079763 | |
| 2 | 12,525,000 | 12,675,000 | 168 | 1159 | 0.683555104 | |
| 2 | 12,600,000 | 12,750,000 | 169 | 1342 | 0.264462233 | |
| 2 | 12,675,000 | 12,825,000 | 170 | 1248 | -0.712028278 | |
| 2 | 12,750,000 | 12,900,000 | 171 | 1027 | -0.553391858 | |
| 2 | 12,825,000 | 12,975,000 | 172 | 842 | -0.08349961 | |
| 2 | 12,900,000 | 13,050,000 | 173 | 1081 | -0.175771126 | |
| 2 | 12,975,000 | 13,125,000 | 174 | 1259 | -0.146991083 | |
| 2 | 13,050,000 | 13,200,000 | 175 | 1265 | -0.392914807 | |
| 2 | 13,125,000 | 13,275,000 | 176 | 1297 | 0.321258461 | |
| 2 | 13,200,000 | 13,350,000 | 177 | 1183 | 0.986327998 | |
| 2 | 13,275,000 | 13,425,000 | 178 | 989 | 0.710259537 | |
| 2 | 13,350,000 | 13,500,000 | 179 | 1118 | 0.612689025 | NUP35 |
| 2 | 13,425,000 | 13,575,000 | 180 | 1287 | 0.782760794 | DUSP19,NUP35 |
| 2 | 13,500,000 | 13,650,000 | 181 | 874 | 0.469589648 | DUSP19,NCKAP1 |
| 2 | 13,575,000 | 13,725,000 | 182 | 673 | -0.345558052 | FRZB,NCKAP1 |
| 2 | 13,650,000 | 13,800,000 | 183 | 1027 | -0.314019877 | FRZB,NCKAP1 |
| 2 | 13,725,000 | 13,875,000 | 184 | 1226 | -0.438986716 | DNAJC10,FRZB |
| 2 | 13,800,000 | 13,950,000 | 185 | 1317 | 0.256289404 | DNAJC10 |
| 2 | 13,875,000 | 14,025,000 | 186 | 1251 | 0.837351001 | |
| 2 | 13,950,000 | 14,100,000 | 187 | 1010 | 0.413731941 | PDE1A |
| 2 | 14,025,000 | 14,175,000 | 188 | 627 | 0.37985135 | PDE1A |
| 2 | 14,100,000 | 14,250,000 | 189 | 425 | 0.675285016 | PDE1A |
| 2 | 14,175,000 | 14,325,000 | 190 | 528 | 0.689079432 | PDE1A |
| 2 | 14,250,000 | 14,400,000 | 191 | 718 | 1.266309728 | PDE1A |
| 2 | 14,325,000 | 14,475,000 | 192 | 677 | 0.642473937 | PDE1A,ENSBTAG00000033523 |
| 2 | 14,400,000 | 14,550,000 | 193 | 668 | -0.308927877 | PDE1A,PPP1R1C,ENSBTAG00000033523 |
| 2 | 14,475,000 | 14,625,000 | 194 | 897 | -0.683031152 | PDE1A,PPP1R1C |
| 2 | 14,550,000 | 14,700,000 | 195 | 874 | -1.211440441 | PPP1R1C,SSFA2 |
| 2 | 14,625,000 | 14,775,000 | 196 | 754 | -0.03256515 | SSFA2 |
| 2 | 14,700,000 | 14,850,000 | 197 | 575 | 0.185071833 | SSFA2 |
| 2 | 14,775,000 | 14,925,000 | 198 | 773 | 0.189222092 | |
| 2 | 14,850,000 | 15,000,000 | 199 | 975 | 0.444303422 | NEUROD1 |
| 2 | 14,925,000 | 15,075,000 | 200 | 1057 | 0.754617886 | CERKL,NEUROD1 |
| 2 | 15,000,000 | 15,150,000 | 201 | 1132 | 0.900015538 | CERKL,ITGA4 |
| 2 | 15,075,000 | 15,225,000 | 202 | 876 | 0.302856343 | CERKL,ITGA4 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------------|
| 2 | 15,150,000 | 15,300,000 | 203 | 619 | -0.257322727 | ITGA4 |
| 2 | 15,225,000 | 15,375,000 | 204 | 528 | -1.166389475 | |
| 2 | 15,300,000 | 15,450,000 | 205 | 900 | -1.415130418 | |
| 2 | 15,375,000 | 15,525,000 | 206 | 1068 | -0.674848623 | |
| 2 | 15,450,000 | 15,600,000 | 207 | 1099 | 0.136099144 | |
| 2 | 15,525,000 | 15,675,000 | 208 | 1000 | 0.171301465 | UBE2E3 |
| 2 | 15,600,000 | 15,750,000 | 209 | 695 | -2.063216848 | UBE2E3 |
| 2 | 15,675,000 | 15,825,000 | 210 | 492 | -2.715066328 | UBE2E3 |
| 2 | 15,750,000 | 15,900,000 | 211 | 540 | -1.047009419 | UBE2E3 |
| 2 | 15,825,000 | 15,975,000 | 212 | 706 | -1.0794016 | |
| 2 | 15,900,000 | 16,050,000 | 213 | 839 | -0.782442391 | |
| 2 | 15,975,000 | 16,125,000 | 214 | 1060 | 0.218701314 | |
| 2 | 16,050,000 | 16,200,000 | 215 | 875 | 0.864007822 | |
| 2 | 16,125,000 | 16,275,000 | 216 | 459 | 0.657340434 | |
| 2 | 16,200,000 | 16,350,000 | 217 | 426 | -0.356707578 | |
| 2 | 16,275,000 | 16,425,000 | 218 | 691 | 1.010935304 | |
| 2 | 16,350,000 | 16,500,000 | 219 | 780 | 0.516919128 | |
| 2 | 16,425,000 | 16,575,000 | 220 | 704 | -0.33748333 | |
| 2 | 16,500,000 | 16,650,000 | 221 | 775 | 0.831036766 | |
| 2 | 16,575,000 | 16,725,000 | 222 | 988 | 0.9732266 | |
| 2 | 16,650,000 | 16,800,000 | 223 | 1272 | 0.022805501 | |
| 2 | 16,725,000 | 16,875,000 | 224 | 1242 | -0.738581487 | CWC22 |
| 2 | 16,800,000 | 16,950,000 | 225 | 644 | -0.938576046 | CWC22 |
| 2 | 16,875,000 | 17,025,000 | 226 | 191 | -2.512374521 | CWC22 |
| 2 | 16,950,000 | 17,100,000 | 227 | 584 | 0.69056464 | MGC139239 |
| 2 | 17,025,000 | 17,175,000 | 228 | 1144 | 0.54953059 | MGC139239 |
| 2 | 17,100,000 | 17,250,000 | 229 | 1112 | 0.137386436 | MGC139239 |
| 2 | 17,175,000 | 17,325,000 | 230 | 804 | 0.212527495 | MGC139239 |
| 2 | 17,250,000 | 17,400,000 | 231 | 670 | 0.178987213 | MGC139239 |
| 2 | 17,325,000 | 17,475,000 | 232 | 592 | 0.002605631 | MGC139239 |
| 2 | 17,400,000 | 17,550,000 | 233 | 756 | 0.693944436 | MGC139239 |
| 2 | 17,475,000 | 17,625,000 | 234 | 824 | 0.708336575 | |
| 2 | 17,550,000 | 17,700,000 | 235 | 641 | 0.087210322 | |
| 2 | 17,625,000 | 17,775,000 | 236 | 674 | 0.225931314 | SESTD1 |
| 2 | 17,700,000 | 17,850,000 | 237 | 678 | -0.649294501 | CCDC141,SESTD1 |
| 2 | 17,775,000 | 17,925,000 | 238 | 1067 | -1.763879314 | CCDC141 |
| 2 | 17,850,000 | 18,000,000 | 239 | 1348 | -0.42020358 | CCDC141 |
| 2 | 17,925,000 | 18,075,000 | 240 | 1049 | 0.713511091 | CCDC141,TTN |
| 2 | 18,000,000 | 18,150,000 | 241 | 882 | -0.034762978 | CCDC141,TTN |
| 2 | 18,075,000 | 18,225,000 | 242 | 917 | 0.137734195 | TTN |
| 2 | 18,150,000 | 18,300,000 | 243 | 659 | 0.782730158 | TTN |
| 2 | 18,225,000 | 18,375,000 | 244 | 384 | 0.989608625 | TTN |
| 2 | 18,300,000 | 18,450,000 | 245 | 317 | 0.823375795 | DFNB59,FKBP7,PLEKHA3,PRKRA,TTN |
| 2 | 18,375,000 | 18,525,000 | 246 | 606 | 1.042130349 | DFNB59,FKBP7,OSBPL6,PLEKHA3,PRKRA |
| 2 | 18,450,000 | 18,600,000 | 247 | 869 | 0.737405619 | OSBPL6 |
| 2 | 18,525,000 | 18,675,000 | 248 | 916 | 0.362724019 | OSBPL6 |
| 2 | 18,600,000 | 18,750,000 | 249 | 960 | 0.492521573 | |
| 2 | 18,675,000 | 18,825,000 | 250 | 777 | 0.245822803 | CYCT,PDE11A,RBM45 |
| 2 | 18,750,000 | 18,900,000 | 251 | 626 | 0.289059171 | CYCT,PDE11A,RBM45 |
| 2 | 18,825,000 | 18,975,000 | 252 | 798 | -0.393674792 | PDE11A |
| 2 | 18,900,000 | 19,050,000 | 253 | 1116 | -0.354636671 | PDE11A |
| 2 | 18,975,000 | 19,125,000 | 254 | 933 | 0.390155986 | PDE11A |
| 2 | 19,050,000 | 19,200,000 | 255 | 654 | 0.553848401 | PDE11A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 2 | 19,125,000 | 19,275,000 | 256 | 551 | 0.575144192 | PDE11A,TTC30A |
| 2 | 19,200,000 | 19,350,000 | 257 | 388 | 0.572097888 | AGPS,PDE11A,TTC30A,TTC30B |
| 2 | 19,275,000 | 19,425,000 | 258 | 437 | 0.467358057 | AGPS,TTC30B |
| 2 | 19,350,000 | 19,500,000 | 259 | 468 | -0.324278854 | AGPS |
| 2 | 19,425,000 | 19,575,000 | 260 | 436 | -0.222862629 | AGPS |
| 2 | 19,500,000 | 19,650,000 | 261 | 584 | -1.40179322 | |
| 2 | 19,575,000 | 19,725,000 | 262 | 556 | -2.274432246 | HNRNPA3,NFE2L2 |
| 2 | 19,650,000 | 19,800,000 | 263 | 370 | -1.620006581 | HNRNPA3,NFE2L2 |
| 2 | 19,725,000 | 19,875,000 | 264 | 327 | -1.227563099 | |
| 2 | 19,800,000 | 19,950,000 | 265 | 415 | 0.091785814 | |
| 2 | 19,875,000 | 20,025,000 | 266 | 513 | 0.14947313 | |
| 2 | 19,950,000 | 20,100,000 | 267 | 662 | -0.740002157 | |
| 2 | 20,025,000 | 20,175,000 | 268 | 665 | -1.081605902 | |
| 2 | 20,100,000 | 20,250,000 | 269 | 375 | -0.61311661 | |
| 2 | 20,175,000 | 20,325,000 | 270 | 327 | -0.621428266 | |
| 2 | 20,250,000 | 20,400,000 | 271 | 560 | 0.004232826 | |
| 2 | 20,325,000 | 20,475,000 | 272 | 700 | 0.762921247 | |
| 2 | 20,400,000 | 20,550,000 | 273 | 742 | 0.415885046 | |
| 2 | 20,475,000 | 20,625,000 | 274 | 864 | 0.50412218 | MTX2 |
| 2 | 20,550,000 | 20,700,000 | 275 | 674 | 0.836279582 | MTX2 |
| 2 | 20,625,000 | 20,775,000 | 276 | 310 | 0.757650107 | HOXD1,MTX2 |
| 2 | 20,700,000 | 20,850,000 | 277 | 223 | 0.443710676 | HOXD,HOXD1,HOXD10,HOXD12,HOXD3,HOXD4,HOXD9 |
| 2 | 20,775,000 | 20,925,000 | 278 | 229 | -0.255550384 | HOXD,HOXD10,HOXD12,HOXD13,HOXD3,HOXD4,HOXD9 |
| 2 | 20,850,000 | 21,000,000 | 279 | 228 | -0.520430948 | HOXD13,KIAA1715 |
| 2 | 20,925,000 | 21,075,000 | 280 | 231 | -0.849715461 | KIAA1715,ENSBTAG00000031711 |
| 2 | 21,000,000 | 21,150,000 | 281 | 218 | -0.58831183 | KIAA1715,ENSBTAG00000031711 |
| 2 | 21,075,000 | 21,225,000 | 282 | 276 | 0.435594466 | |
| 2 | 21,150,000 | 21,300,000 | 283 | 487 | 0.200714514 | |
| 2 | 21,225,000 | 21,375,000 | 284 | 583 | 0.013505631 | |
| 2 | 21,300,000 | 21,450,000 | 285 | 937 | 0.475615407 | |
| 2 | 21,375,000 | 21,525,000 | 286 | 1140 | 0.259964896 | |
| 2 | 21,450,000 | 21,600,000 | 287 | 729 | -0.164404388 | |
| 2 | 21,525,000 | 21,675,000 | 288 | 740 | 0.079674491 | |
| 2 | 21,600,000 | 21,750,000 | 289 | 695 | 0.067568433 | ATF2,ATP5G3 |
| 2 | 21,675,000 | 21,825,000 | 290 | 321 | -0.019635342 | ATF2,ATP5G3 |
| 2 | 21,750,000 | 21,900,000 | 291 | 366 | 0.147912024 | ATF2,CHN1 |
| 2 | 21,825,000 | 21,975,000 | 292 | 520 | 0.394983244 | ATF2,CHN1 |
| 2 | 21,900,000 | 22,050,000 | 293 | 497 | 0.545266097 | CHN1 |
| 2 | 21,975,000 | 22,125,000 | 294 | 461 | 0.729607417 | CHN1,CHRNA1 |
| 2 | 22,050,000 | 22,200,000 | 295 | 529 | 0.738932441 | CHN1,CHRNA1 |
| 2 | 22,125,000 | 22,275,000 | 296 | 553 | 0.129644217 | CHRNA1,WIPF1 |
| 2 | 22,200,000 | 22,350,000 | 297 | 549 | 0.071693202 | WIPF1 |
| 2 | 22,275,000 | 22,425,000 | 298 | 621 | -0.209056736 | GPR155,SCRN3,WIPF1 |
| 2 | 22,350,000 | 22,500,000 | 299 | 645 | -0.844995146 | CIR1,GPR155,SCRN3,SP9 |
| 2 | 22,425,000 | 22,575,000 | 300 | 629 | -0.963005264 | CIR1,OLA1,SCRN3,SP9 |
| 2 | 22,500,000 | 22,650,000 | 301 | 509 | -1.185627561 | OLA1 |
| 2 | 22,575,000 | 22,725,000 | 302 | 443 | -0.257850731 | OLA1 |
| 2 | 22,650,000 | 22,800,000 | 303 | 367 | 0.434812955 | OLA1 |
| 2 | 22,725,000 | 22,875,000 | 304 | 230 | 0.218918521 | OLA1,SP3 |
| 2 | 22,800,000 | 22,950,000 | 305 | 296 | -0.303554944 | SP3 |
| 2 | 22,875,000 | 23,025,000 | 306 | 418 | -0.514120908 | SP3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 2 | 22,950,000 | 23,100,000 | 307 | 669 | -0.471812466 | |
| 2 | 23,025,000 | 23,175,000 | 308 | 629 | -0.108599603 | |
| 2 | 23,100,000 | 23,250,000 | 309 | 560 | 0.697234146 | |
| 2 | 23,175,000 | 23,325,000 | 310 | 737 | -0.289174006 | UBL5 |
| 2 | 23,250,000 | 23,400,000 | 311 | 694 | -1.233536055 | CDCA7,UBL5 |
| 2 | 23,325,000 | 23,475,000 | 312 | 499 | -0.689442362 | CDCA7,ENSBTAG00000001083 |
| 2 | 23,400,000 | 23,550,000 | 313 | 394 | 0.705643872 | ENSBTAG00000001083 |
| 2 | 23,475,000 | 23,625,000 | 314 | 484 | 0.382517402 | ENSBTAG00000001083 |
| 2 | 23,550,000 | 23,700,000 | 315 | 764 | 0.434157761 | RAPGEF4,ENSBTAG00000001083 |
| 2 | 23,625,000 | 23,775,000 | 316 | 930 | 0.694025205 | RAPGEF4 |
| 2 | 23,700,000 | 23,850,000 | 317 | 671 | 0.97322743 | RAPGEF4 |
| 2 | 23,775,000 | 23,925,000 | 318 | 595 | -0.715131171 | RAPGEF4 |
| 2 | 23,850,000 | 24,000,000 | 319 | 528 | -1.136021671 | RAPGEF4 |
| 2 | 23,925,000 | 24,075,000 | 320 | 384 | 0.787199183 | PDK1,RAPGEF4 |
| 2 | 24,000,000 | 24,150,000 | 321 | 352 | 0.587182934 | ITGA6,PDK1 |
| 2 | 24,075,000 | 24,225,000 | 322 | 442 | 0.279187492 | ITGA6,PDK1 |
| 2 | 24,150,000 | 24,300,000 | 323 | 707 | -0.117664494 | ITGA6 |
| 2 | 24,225,000 | 24,375,000 | 324 | 1066 | -0.069177788 | |
| 2 | 24,300,000 | 24,450,000 | 325 | 957 | 0.047037204 | |
| 2 | 24,375,000 | 24,525,000 | 326 | 564 | 0.508297846 | DLX1,DLX2,MAP1D |
| 2 | 24,450,000 | 24,600,000 | 327 | 646 | -0.590988894 | DLX1,DLX2,MAP1D |
| 2 | 24,525,000 | 24,675,000 | 328 | 490 | -1.572026251 | HAT1,MAP1D |
| 2 | 24,600,000 | 24,750,000 | 329 | 301 | 0.711398464 | HAT1,SLC25A12 |
| 2 | 24,675,000 | 24,825,000 | 330 | 323 | 0.466447489 | DYNC1I2,SLC25A12 |
| 2 | 24,750,000 | 24,900,000 | 331 | 373 | -0.242535996 | DYNC1I2,SLC25A12 |
| 2 | 24,825,000 | 24,975,000 | 332 | 621 | -0.188701954 | CYBRD1,DYNC1I2 |
| 2 | 24,900,000 | 25,050,000 | 333 | 528 | -0.275390082 | CYBRD1,DCAF17 |
| 2 | 24,975,000 | 25,125,000 | 334 | 340 | -0.410255102 | CYBRD1,DCAF17,METTL8 |
| 2 | 25,050,000 | 25,200,000 | 335 | 340 | -0.07446651 | DCAF17,METTL8 |
| 2 | 25,125,000 | 25,275,000 | 336 | 365 | -0.498618438 | METTL8 |
| 2 | 25,200,000 | 25,350,000 | 337 | 416 | -0.530019298 | |
| 2 | 25,275,000 | 25,425,000 | 338 | 473 | -0.604027317 | TLK1 |
| 2 | 25,350,000 | 25,500,000 | 339 | 512 | -0.719099585 | TLK1 |
| 2 | 25,425,000 | 25,575,000 | 340 | 594 | -0.694036786 | GORASP2,TLK1,ENSBTAG00000036258 |
| 2 | 25,500,000 | 25,650,000 | 341 | 930 | -0.67614607 | GAD1,GORASP2,ENSBTAG00000036258 |
| 2 | 25,575,000 | 25,725,000 | 342 | 987 | -1.280593404 | ERICH2,GAD1,GORASP2 |
| 2 | 25,650,000 | 25,800,000 | 343 | 646 | -2.037151658 | ERICH2,GAD1,SP5 |
| 2 | 25,725,000 | 25,875,000 | 344 | 657 | -1.355914169 | SP5 |
| 2 | 25,800,000 | 25,950,000 | 345 | 808 | -0.521255788 | |
| 2 | 25,875,000 | 26,025,000 | 346 | 856 | 0.371307001 | MYO3B |
| 2 | 25,950,000 | 26,100,000 | 347 | 692 | 0.845575843 | MYO3B |
| 2 | 26,025,000 | 26,175,000 | 348 | 639 | 0.85122669 | MYO3B |
| 2 | 26,100,000 | 26,250,000 | 349 | 900 | 0.459016564 | MYO3B |
| 2 | 26,175,000 | 26,325,000 | 350 | 1250 | -2.171653837 | MYO3B |
| 2 | 26,250,000 | 26,400,000 | 351 | 1191 | -3.435236011 | MYO3B,UBR3 |
| 2 | 26,325,000 | 26,475,000 | 352 | 558 | -0.602248656 | UBR3 |
| 2 | 26,400,000 | 26,550,000 | 353 | 327 | 0.417638409 | UBR3 |
| 2 | 26,475,000 | 26,625,000 | 354 | 308 | 0.455977556 | KLHL23,METTL5,SSB,UBR3 |
| 2 | 26,550,000 | 26,700,000 | 355 | 274 | 0.807542427 | CCDC173,KLHL23,METTL5,PHOSPHO2,PPIG,SSB,UBR3 |
| 2 | 26,625,000 | 26,775,000 | 356 | 292 | 0.9339668 | CCDC173,FASTKD1,KLHL23,PHOSPHO2,PPIG,ENSBTAG0000046878 |
| 2 | 26,700,000 | 26,850,000 | 357 | 399 | -0.242780737 | BBS5,FASTKD1,KBTBD10,PPIG,ENSBTAG00000046878 |
| 2 | 26,775,000 | 26,925,000 | 358 | 425 | -3.290898228 | BBS5,FASTKD1,KBTBD10 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 2 | 26,850,000 | 27,000,000 | 359 | 379 | -2.131031156 | LRP2 |
| 2 | 26,925,000 | 27,075,000 | 360 | 713 | 0.050041299 | LRP2 |
| 2 | 27,000,000 | 27,150,000 | 361 | 839 | 0.33969253 | DHRS9,LRP2 |
| 2 | 27,075,000 | 27,225,000 | 362 | 661 | 0.031981 | ABCB11,DHRS9,LRP2 |
| 2 | 27,150,000 | 27,300,000 | 363 | 713 | 0.030202279 | ABCB11,G6PC2,SPC25 |
| 2 | 27,225,000 | 27,375,000 | 364 | 1142 | 0.663842294 | ABCB11,G6PC2,NOSTRIN,SPC25 |
| 2 | 27,300,000 | 27,450,000 | 365 | 1306 | 0.644124507 | CERS6,NOSTRIN,SPC25 |
| 2 | 27,375,000 | 27,525,000 | 366 | 1035 | -0.490493228 | CERS6,NOSTRIN |
| 2 | 27,450,000 | 27,600,000 | 367 | 803 | -1.652782235 | CERS6 |
| 2 | 27,525,000 | 27,675,000 | 368 | 728 | -2.071046416 | CERS6 |
| 2 | 27,600,000 | 27,750,000 | 369 | 773 | -0.711250828 | CERS6 |
| 2 | 27,675,000 | 27,825,000 | 370 | 777 | 0.171298357 | CERS6 |
| 2 | 27,750,000 | 27,900,000 | 371 | 651 | -0.062571172 | CERS6 |
| 2 | 27,825,000 | 27,975,000 | 372 | 469 | -0.275089718 | STK39 |
| 2 | 27,900,000 | 28,050,000 | 373 | 529 | 0.110594564 | STK39 |
| 2 | 27,975,000 | 28,125,000 | 374 | 825 | 0.408664534 | STK39 |
| 2 | 28,050,000 | 28,200,000 | 375 | 793 | 0.196741222 | |
| 2 | 28,125,000 | 28,275,000 | 376 | 615 | -0.724843418 | |
| 2 | 28,200,000 | 28,350,000 | 377 | 931 | 0.64726417 | |
| 2 | 28,275,000 | 28,425,000 | 378 | 1085 | 0.566618949 | B3GALT1 |
| 2 | 28,350,000 | 28,500,000 | 379 | 1131 | -0.913115733 | B3GALT1 |
| 2 | 28,425,000 | 28,575,000 | 380 | 1269 | -0.575388487 | |
| 2 | 28,500,000 | 28,650,000 | 381 | 1218 | 0.326662103 | |
| 2 | 28,575,000 | 28,725,000 | 382 | 1207 | 0.882766819 | |
| 2 | 28,650,000 | 28,800,000 | 383 | 1343 | 0.96072236 | |
| 2 | 28,725,000 | 28,875,000 | 384 | 1390 | 0.329802297 | |
| 2 | 28,800,000 | 28,950,000 | 385 | 1423 | 0.128848181 | |
| 2 | 28,875,000 | 29,025,000 | 386 | 1224 | 0.662186455 | |
| 2 | 28,950,000 | 29,100,000 | 387 | 691 | 0.468868785 | XIRP2 |
| 2 | 29,025,000 | 29,175,000 | 388 | 512 | -0.155418349 | XIRP2 |
| 2 | 29,100,000 | 29,250,000 | 389 | 957 | -2.128373816 | XIRP2 |
| 2 | 29,175,000 | 29,325,000 | 390 | 1299 | -1.898917994 | |
| 2 | 29,250,000 | 29,400,000 | 391 | 1274 | -1.472703387 | |
| 2 | 29,325,000 | 29,475,000 | 392 | 1031 | -1.048323919 | ENSBTAG00000046347 |
| 2 | 29,400,000 | 29,550,000 | 393 | 897 | -0.353870031 | ENSBTAG00000046347 |
| 2 | 29,475,000 | 29,625,000 | 394 | 757 | -0.585479825 | |
| 2 | 29,550,000 | 29,700,000 | 395 | 463 | -0.002959926 | |
| 2 | 29,625,000 | 29,775,000 | 396 | 541 | 0.391120361 | |
| 2 | 29,700,000 | 29,850,000 | 397 | 863 | 0.012327137 | |
| 2 | 29,775,000 | 29,925,000 | 398 | 895 | -0.010885558 | |
| 2 | 29,850,000 | 30,000,000 | 399 | 958 | -0.506313617 | SCN7A |
| 2 | 29,925,000 | 30,075,000 | 400 | 1261 | -0.678638581 | SCN7A |
| 2 | 30,000,000 | 30,150,000 | 401 | 986 | -0.454275264 | SCN9A,ENSBTAG00000026882 |
| 2 | 30,075,000 | 30,225,000 | 402 | 550 | -0.724460717 | SCN9A,ENSBTAG00000026882 |
| 2 | 30,150,000 | 30,300,000 | 403 | 502 | -1.273183596 | SCN9A |
| 2 | 30,225,000 | 30,375,000 | 404 | 813 | -1.471835687 | SCN1A |
| 2 | 30,300,000 | 30,450,000 | 405 | 1121 | -0.377893672 | SCN1A,TTC21B |
| 2 | 30,375,000 | 30,525,000 | 406 | 1038 | 0.656542637 | SCN1A,TTC21B |
| 2 | 30,450,000 | 30,600,000 | 407 | 782 | 0.853474432 | TTC21B |
| 2 | 30,525,000 | 30,675,000 | 408 | 579 | 0.077392924 | GALNT3,TTC21B |
| 2 | 30,600,000 | 30,750,000 | 409 | 580 | -1.267009926 | CSRNP3,GALNT3 |
| 2 | 30,675,000 | 30,825,000 | 410 | 842 | -1.142875924 | CSRNP3 |
| 2 | 30,750,000 | 30,900,000 | 411 | 962 | -1.305716692 | CSRNP3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 2 | 30,825,000 | 30,975,000 | 412 | 701 | -2.211264077 | |
| 2 | 30,900,000 | 31,050,000 | 413 | 649 | -1.232793898 | SCN2A |
| 2 | 30,975,000 | 31,125,000 | 414 | 931 | -0.455769125 | SCN2A |
| 2 | 31,050,000 | 31,200,000 | 415 | 839 | -0.32787043 | SCN2A,SCN3A |
| 2 | 31,125,000 | 31,275,000 | 416 | 663 | -0.565331267 | SCN3A |
| 2 | 31,200,000 | 31,350,000 | 417 | 644 | -2.098259393 | SCN3A |
| 2 | 31,275,000 | 31,425,000 | 418 | 439 | -3.17190377 | SCN3A,SLC38A11 |
| 2 | 31,350,000 | 31,500,000 | 419 | 386 | -1.102659009 | SLC38A11 |
| 2 | 31,425,000 | 31,575,000 | 420 | 387 | -0.313712308 | SLC38A11 |
| 2 | 31,500,000 | 31,650,000 | 421 | 514 | 0.019922992 | ENSBTAG00000005501 |
| 2 | 31,575,000 | 31,725,000 | 422 | 720 | 0.920288514 | ENSBTAG00000005501,ENSBTAG00000047880 |
| 2 | 31,650,000 | 31,800,000 | 423 | 814 | 1.227759349 | GRB14,ENSBTAG00000005501,ENSBTAG00000047880 |
| 2 | 31,725,000 | 31,875,000 | 424 | 713 | 1.225462779 | GRB14 |
| 2 | 31,800,000 | 31,950,000 | 425 | 435 | 0.881802666 | GRB14 |
| 2 | 31,875,000 | 32,025,000 | 426 | 500 | 0.848499072 | GRB14 |
| 2 | 31,950,000 | 32,100,000 | 427 | 513 | 0.498700322 | |
| 2 | 32,025,000 | 32,175,000 | 428 | 562 | -1.156847328 | |
| 2 | 32,100,000 | 32,250,000 | 429 | 544 | -1.241757712 | |
| 2 | 32,175,000 | 32,325,000 | 430 | 743 | -0.199822034 | |
| 2 | 32,250,000 | 32,400,000 | 431 | 1025 | -0.156269162 | |
| 2 | 32,325,000 | 32,475,000 | 432 | 675 | 0.00128732 | |
| 2 | 32,400,000 | 32,550,000 | 433 | 595 | 0.681003713 | |
| 2 | 32,475,000 | 32,625,000 | 434 | 598 | 0.697626281 | |
| 2 | 32,550,000 | 32,700,000 | 435 | 420 | 0.294023377 | |
| 2 | 32,625,000 | 32,775,000 | 436 | 319 | 0.082435653 | |
| 2 | 32,700,000 | 32,850,000 | 437 | 311 | 0.132568723 | |
| 2 | 32,775,000 | 32,925,000 | 438 | 305 | -0.029547172 | FIGN |
| 2 | 32,850,000 | 33,000,000 | 439 | 273 | -1.321600974 | FIGN |
| 2 | 32,925,000 | 33,075,000 | 440 | 344 | -0.671056655 | |
| 2 | 33,000,000 | 33,150,000 | 441 | 628 | 0.086172285 | |
| 2 | 33,075,000 | 33,225,000 | 442 | 620 | 0.02450481 | |
| 2 | 33,150,000 | 33,300,000 | 443 | 336 | -0.116393646 | |
| 2 | 33,225,000 | 33,375,000 | 444 | 722 | -0.231268971 | |
| 2 | 33,300,000 | 33,450,000 | 445 | 1401 | -0.05786206 | |
| 2 | 33,375,000 | 33,525,000 | 446 | 1582 | 0.399326294 | |
| 2 | 33,450,000 | 33,600,000 | 447 | 1569 | 0.702852624 | |
| 2 | 33,525,000 | 33,675,000 | 448 | 1602 | 0.775561535 | |
| 2 | 33,600,000 | 33,750,000 | 449 | 1656 | 0.629515318 | |
| 2 | 33,675,000 | 33,825,000 | 450 | 1606 | -0.01695602 | |
| 2 | 33,750,000 | 33,900,000 | 451 | 1380 | -0.068155859 | |
| 2 | 33,825,000 | 33,975,000 | 452 | 1508 | 0.446240583 | |
| 2 | 33,900,000 | 34,050,000 | 453 | 1602 | 0.583488524 | KCNH7 |
| 2 | 33,975,000 | 34,125,000 | 454 | 998 | 0.787095557 | KCNH7 |
| 2 | 34,050,000 | 34,200,000 | 455 | 418 | 0.420487709 | GCA,KCNH7 |
| 2 | 34,125,000 | 34,275,000 | 456 | 318 | -0.376067458 | GCA,IFIH1,KCNH7 |
| 2 | 34,200,000 | 34,350,000 | 457 | 367 | -1.59955962 | FAP,IFIH1 |
| 2 | 34,275,000 | 34,425,000 | 458 | 466 | -0.809526412 | FAP,GCG |
| 2 | 34,350,000 | 34,500,000 | 459 | 759 | -1.470757857 | DPP4,FAP,GCG |
| 2 | 34,425,000 | 34,575,000 | 460 | 671 | -1.279550976 | DPP4,SLC4A10,ENSBTAG00000048246 |
| 2 | 34,500,000 | 34,650,000 | 461 | 630 | -0.382408076 | DPP4,SLC4A10,ENSBTAG00000048246 |
| 2 | 34,575,000 | 34,725,000 | 462 | 656 | -0.656999049 | SLC4A10 |
| 2 | 34,650,000 | 34,800,000 | 463 | 482 | -1.598157299 | SLC4A10 |
| 2 | 34,725,000 | 34,875,000 | 464 | 520 | -1.73807397 | SLC4A10 |

| | | | | | | |
|---|------------|------------|-----|-----|--------------|--------------------|
| 2 | 34,800,000 | 34,950,000 | 465 | 535 | -0.556570166 | SLC4A10 |
| 2 | 34,875,000 | 35,025,000 | 466 | 666 | -1.508050343 | |
| 2 | 34,950,000 | 35,100,000 | 467 | 495 | -1.720953238 | PSMD14,TBR1 |
| 2 | 35,025,000 | 35,175,000 | 468 | 299 | 0.814375249 | PSMD14,TBR1 |
| 2 | 35,100,000 | 35,250,000 | 469 | 410 | 1.132463798 | PSMD14,TANK |
| 2 | 35,175,000 | 35,325,000 | 470 | 362 | 1.237601777 | PSMD14,TANK |
| 2 | 35,250,000 | 35,400,000 | 471 | 286 | 1.20288604 | TANK |
| 2 | 35,325,000 | 35,475,000 | 472 | 388 | 1.21417641 | TANK |
| 2 | 35,400,000 | 35,550,000 | 473 | 355 | 0.693149384 | |
| 2 | 35,475,000 | 35,625,000 | 474 | 317 | -1.206135837 | |
| 2 | 35,550,000 | 35,700,000 | 475 | 498 | -0.962790032 | |
| 2 | 35,625,000 | 35,775,000 | 476 | 470 | -0.619748903 | |
| 2 | 35,700,000 | 35,850,000 | 477 | 274 | -0.43899963 | |
| 2 | 35,775,000 | 35,925,000 | 478 | 309 | -3.235241923 | |
| 2 | 35,850,000 | 36,000,000 | 479 | 445 | -5.307561219 | RBMS1 |
| 2 | 35,925,000 | 36,075,000 | 480 | 397 | -5.107739123 | RBMS1 |
| 2 | 36,000,000 | 36,150,000 | 481 | 272 | -4.585565026 | RBMS1 |
| 2 | 36,075,000 | 36,225,000 | 482 | 308 | -3.655086825 | RBMS1 |
| 2 | 36,150,000 | 36,300,000 | 483 | 673 | -1.045695434 | ITGB6,RBMS1 |
| 2 | 36,225,000 | 36,375,000 | 484 | 718 | -0.168634521 | ITGB6,PLA2R1 |
| 2 | 36,300,000 | 36,450,000 | 485 | 701 | 1.064353296 | ITGB6,PLA2R1 |
| 2 | 36,375,000 | 36,525,000 | 486 | 963 | 1.232237129 | PLA2R1 |
| 2 | 36,450,000 | 36,600,000 | 487 | 656 | 1.078481831 | LY75,PLA2R1 |
| 2 | 36,525,000 | 36,675,000 | 488 | 297 | 1.083408033 | CD302,LY75 |
| 2 | 36,600,000 | 36,750,000 | 489 | 290 | 0.729376494 | CD302,LY75,MARCH7 |
| 2 | 36,675,000 | 36,825,000 | 490 | 309 | 0.35940001 | BAZ2B,CD302,MARCH7 |
| 2 | 36,750,000 | 36,900,000 | 491 | 354 | 0.058201428 | BAZ2B |
| 2 | 36,825,000 | 36,975,000 | 492 | 375 | 0.075252659 | BAZ2B |
| 2 | 36,900,000 | 37,050,000 | 493 | 337 | 0.109850595 | BAZ2B |
| 2 | 36,975,000 | 37,125,000 | 494 | 325 | -0.135229196 | BAZ2B |
| 2 | 37,050,000 | 37,200,000 | 495 | 306 | 0.447855685 | BAZ2B,WDSUB1 |
| 2 | 37,125,000 | 37,275,000 | 496 | 348 | 0.812415169 | BAZ2B,TANC1,WDSUB1 |
| 2 | 37,200,000 | 37,350,000 | 497 | 464 | 0.791847863 | TANC1,WDSUB1 |
| 2 | 37,275,000 | 37,425,000 | 498 | 571 | 0.470704931 | TANC1 |
| 2 | 37,350,000 | 37,500,000 | 499 | 654 | 0.404156883 | TANC1 |
| 2 | 37,425,000 | 37,575,000 | 500 | 561 | 0.445065696 | TANC1 |
| 2 | 37,500,000 | 37,650,000 | 501 | 537 | -0.092079026 | DAPL1 |
| 2 | 37,575,000 | 37,725,000 | 502 | 603 | -2.793124369 | DAPL1 |
| 2 | 37,650,000 | 37,800,000 | 503 | 588 | -1.997436643 | |
| 2 | 37,725,000 | 37,875,000 | 504 | 400 | -0.645074274 | PKP4 |
| 2 | 37,800,000 | 37,950,000 | 505 | 328 | 0.1588296 | PKP4 |
| 2 | 37,875,000 | 38,025,000 | 506 | 439 | 0.397371168 | CCDC148,PKP4 |
| 2 | 37,950,000 | 38,100,000 | 507 | 317 | -0.10446417 | CCDC148 |
| 2 | 38,025,000 | 38,175,000 | 508 | 672 | -1.70113348 | CCDC148 |
| 2 | 38,100,000 | 38,250,000 | 509 | 778 | -0.62456979 | CCDC148 |
| 2 | 38,175,000 | 38,325,000 | 510 | 425 | 1.214404441 | |
| 2 | 38,250,000 | 38,400,000 | 511 | 709 | 0.780135562 | UPP2 |
| 2 | 38,325,000 | 38,475,000 | 512 | 909 | 0.497474182 | UPP2 |
| 2 | 38,400,000 | 38,550,000 | 513 | 847 | 0.510584476 | ACVR1C |
| 2 | 38,475,000 | 38,625,000 | 514 | 664 | 0.030894087 | ACVR1C |
| 2 | 38,550,000 | 38,700,000 | 515 | 584 | -0.823286144 | ACVR1C,CYTIP |
| 2 | 38,625,000 | 38,775,000 | 516 | 599 | -0.639601871 | CYTIP |
| 2 | 38,700,000 | 38,850,000 | 517 | 676 | 0.244551897 | CYTIP,ERMN,GALNT5 |

| | | | | | | |
|---|------------|------------|-----|-----|--------------|--------------------|
| 2 | 38,775,000 | 38,925,000 | 518 | 627 | 0.665979376 | ERMN,GALNT5 |
| 2 | 38,850,000 | 39,000,000 | 519 | 604 | 0.271470889 | |
| 2 | 38,925,000 | 39,075,000 | 520 | 780 | -0.00445467 | |
| 2 | 39,000,000 | 39,150,000 | 521 | 728 | -1.140432373 | |
| 2 | 39,075,000 | 39,225,000 | 522 | 686 | -1.130965355 | |
| 2 | 39,150,000 | 39,300,000 | 523 | 582 | 0.801511253 | ACVR1 |
| 2 | 39,225,000 | 39,375,000 | 524 | 455 | 1.037348943 | ACVR1 |
| 2 | 39,300,000 | 39,450,000 | 525 | 684 | 0.703775686 | ACVR1 |
| 2 | 39,375,000 | 39,525,000 | 526 | 772 | -0.069848214 | |
| 2 | 39,450,000 | 39,600,000 | 527 | 531 | -0.040838145 | ENSBTAG00000032405 |
| 2 | 39,525,000 | 39,675,000 | 528 | 477 | 0.350680659 | ENSBTAG00000032405 |
| 2 | 39,600,000 | 39,750,000 | 529 | 678 | 0.318590842 | |
| 2 | 39,675,000 | 39,825,000 | 530 | 737 | -0.174942313 | GPD2 |
| 2 | 39,750,000 | 39,900,000 | 531 | 413 | -1.183256962 | GPD2 |
| 2 | 39,825,000 | 39,975,000 | 532 | 262 | 0.235637514 | GPD2 |
| 2 | 39,900,000 | 40,050,000 | 533 | 233 | 0.27885216 | GPD2,NR4A2 |
| 2 | 39,975,000 | 40,125,000 | 534 | 567 | 0.164602907 | NR4A2 |
| 2 | 40,050,000 | 40,200,000 | 535 | 645 | -0.374061 | |
| 2 | 40,125,000 | 40,275,000 | 536 | 365 | -0.797716891 | |
| 2 | 40,200,000 | 40,350,000 | 537 | 434 | -0.174633994 | |
| 2 | 40,275,000 | 40,425,000 | 538 | 451 | 0.35919206 | |
| 2 | 40,350,000 | 40,500,000 | 539 | 454 | 0.605492626 | |
| 2 | 40,425,000 | 40,575,000 | 540 | 670 | 0.261619992 | |
| 2 | 40,500,000 | 40,650,000 | 541 | 599 | 0.32363746 | |
| 2 | 40,575,000 | 40,725,000 | 542 | 385 | 0.679950927 | |
| 2 | 40,650,000 | 40,800,000 | 543 | 518 | 0.627505714 | |
| 2 | 40,725,000 | 40,875,000 | 544 | 639 | 0.531935242 | |
| 2 | 40,800,000 | 40,950,000 | 545 | 491 | 0.165760609 | |
| 2 | 40,875,000 | 41,025,000 | 546 | 400 | -0.818777118 | |
| 2 | 40,950,000 | 41,100,000 | 547 | 688 | -0.662580689 | |
| 2 | 41,025,000 | 41,175,000 | 548 | 903 | 0.044303005 | |
| 2 | 41,100,000 | 41,250,000 | 549 | 693 | 0.303286655 | |
| 2 | 41,175,000 | 41,325,000 | 550 | 527 | 0.506497921 | |
| 2 | 41,250,000 | 41,400,000 | 551 | 744 | 0.282449198 | KCNJ3 |
| 2 | 41,325,000 | 41,475,000 | 552 | 875 | 0.498545119 | KCNJ3 |
| 2 | 41,400,000 | 41,550,000 | 553 | 634 | 0.773819028 | KCNJ3 |
| 2 | 41,475,000 | 41,625,000 | 554 | 774 | 0.013249201 | KCNJ3 |
| 2 | 41,550,000 | 41,700,000 | 555 | 858 | 0.190753509 | |
| 2 | 41,625,000 | 41,775,000 | 556 | 439 | 0.864669261 | |
| 2 | 41,700,000 | 41,850,000 | 557 | 335 | 0.583451053 | GALNT13 |
| 2 | 41,775,000 | 41,925,000 | 558 | 535 | 0.424102954 | GALNT13 |
| 2 | 41,850,000 | 42,000,000 | 559 | 527 | 0.426482473 | GALNT13 |
| 2 | 41,925,000 | 42,075,000 | 560 | 634 | 0.256117282 | GALNT13 |
| 2 | 42,000,000 | 42,150,000 | 561 | 791 | -0.363050969 | GALNT13 |
| 2 | 42,075,000 | 42,225,000 | 562 | 713 | -0.929674713 | GALNT13 |
| 2 | 42,150,000 | 42,300,000 | 563 | 621 | -0.289771045 | GALNT13 |
| 2 | 42,225,000 | 42,375,000 | 564 | 693 | 0.30160383 | GALNT13 |
| 2 | 42,300,000 | 42,450,000 | 565 | 697 | -0.105488112 | GALNT13 |
| 2 | 42,375,000 | 42,525,000 | 566 | 458 | -0.494596974 | |
| 2 | 42,450,000 | 42,600,000 | 567 | 581 | -0.246123444 | |
| 2 | 42,525,000 | 42,675,000 | 568 | 713 | 0.137415007 | |
| 2 | 42,600,000 | 42,750,000 | 569 | 812 | 0.857498069 | |
| 2 | 42,675,000 | 42,825,000 | 570 | 851 | 0.394816402 | RPRM |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 2 | 42,750,000 | 42,900,000 | 571 | 944 | -0.367962648 | RPRM |
| 2 | 42,825,000 | 42,975,000 | 572 | 760 | -0.369202493 | |
| 2 | 42,900,000 | 43,050,000 | 573 | 480 | -1.122134323 | |
| 2 | 42,975,000 | 43,125,000 | 574 | 797 | -1.063050991 | |
| 2 | 43,050,000 | 43,200,000 | 575 | 771 | -0.812035556 | |
| 2 | 43,125,000 | 43,275,000 | 576 | 539 | -0.101462203 | |
| 2 | 43,200,000 | 43,350,000 | 577 | 466 | 0.174835972 | |
| 2 | 43,275,000 | 43,425,000 | 578 | 843 | 0.881573621 | ENSBTAG00000012816 |
| 2 | 43,350,000 | 43,500,000 | 579 | 969 | 0.277964811 | ENSBTAG00000012816 |
| 2 | 43,425,000 | 43,575,000 | 580 | 607 | -1.068008372 | ARL6IP6 |
| 2 | 43,500,000 | 43,650,000 | 581 | 373 | 0.240983478 | ARL6IP6,PRPF40A |
| 2 | 43,575,000 | 43,725,000 | 582 | 217 | 0.233684774 | ARL6IP6,FMNL2,PRPF40A |
| 2 | 43,650,000 | 43,800,000 | 583 | 310 | 0.086459913 | FMNL2,ENSBTAG00000034503 |
| 2 | 43,725,000 | 43,875,000 | 584 | 480 | -0.079738878 | FMNL2,ENSBTAG00000034503 |
| 2 | 43,800,000 | 43,950,000 | 585 | 604 | -0.164279112 | FMNL2 |
| 2 | 43,875,000 | 44,025,000 | 586 | 691 | -0.334870933 | FMNL2 |
| 2 | 43,950,000 | 44,100,000 | 587 | 795 | 0.02983973 | FMNL2 |
| 2 | 44,025,000 | 44,175,000 | 588 | 909 | 0.642617822 | STAM2,ENSBTAG00000048306 |
| 2 | 44,100,000 | 44,250,000 | 589 | 1154 | 0.217615749 | CACNB4,STAM2,ENSBTAG00000048306 |
| 2 | 44,175,000 | 44,325,000 | 590 | 1176 | 0.161442406 | CACNB4 |
| 2 | 44,250,000 | 44,400,000 | 591 | 960 | 0.403469345 | CACNB4 |
| 2 | 44,325,000 | 44,475,000 | 592 | 681 | -0.729346868 | ARL5A,CACNB4 |
| 2 | 44,400,000 | 44,550,000 | 593 | 521 | -1.355839831 | ARL5A,CACNB4,NEB |
| 2 | 44,475,000 | 44,625,000 | 594 | 387 | -1.327167515 | ARL5A,NEB |
| 2 | 44,550,000 | 44,700,000 | 595 | 241 | 0.292006695 | NEB |
| 2 | 44,625,000 | 44,775,000 | 596 | 244 | 0.255323024 | NEB,RIF1 |
| 2 | 44,700,000 | 44,850,000 | 597 | 260 | -0.402626289 | NEB,RIF1 |
| 2 | 44,775,000 | 44,925,000 | 598 | 360 | 0.635162641 | RIF1,TSG-6 |
| 2 | 44,850,000 | 45,000,000 | 599 | 472 | 0.434511186 | NMI,RBM43,TSG-6 |
| 2 | 44,925,000 | 45,075,000 | 600 | 677 | -0.094133907 | NMI,RBM43 |
| 2 | 45,000,000 | 45,150,000 | 601 | 809 | 0.165508807 | |
| 2 | 45,075,000 | 45,225,000 | 602 | 1056 | 0.264332133 | |
| 2 | 45,150,000 | 45,300,000 | 603 | 978 | -0.074171981 | |
| 2 | 45,225,000 | 45,375,000 | 604 | 507 | -0.183014307 | |
| 2 | 45,300,000 | 45,450,000 | 605 | 398 | 0.480653936 | |
| 2 | 45,375,000 | 45,525,000 | 606 | 378 | 0.750400303 | |
| 2 | 45,450,000 | 45,600,000 | 607 | 478 | 0.810708178 | |
| 2 | 45,525,000 | 45,675,000 | 608 | 542 | 0.588809101 | |
| 2 | 45,600,000 | 45,750,000 | 609 | 564 | 0.122399422 | |
| 2 | 45,675,000 | 45,825,000 | 610 | 558 | -1.111075576 | RND3 |
| 2 | 45,750,000 | 45,900,000 | 611 | 406 | -1.045930858 | RND3 |
| 2 | 45,825,000 | 45,975,000 | 612 | 438 | 0.767921068 | |
| 2 | 45,900,000 | 46,050,000 | 613 | 616 | 0.471645496 | |
| 2 | 45,975,000 | 46,125,000 | 614 | 532 | -0.186173807 | |
| 2 | 46,050,000 | 46,200,000 | 615 | 403 | -1.360566462 | |
| 2 | 46,125,000 | 46,275,000 | 616 | 525 | -0.927486551 | |
| 2 | 46,200,000 | 46,350,000 | 617 | 516 | -0.529745635 | |
| 2 | 46,275,000 | 46,425,000 | 618 | 373 | -0.142975606 | |
| 2 | 46,350,000 | 46,500,000 | 619 | 518 | -3.520443175 | |
| 2 | 46,425,000 | 46,575,000 | 620 | 796 | -2.582901569 | |
| 2 | 46,500,000 | 46,650,000 | 621 | 614 | -0.06711369 | MMADHC |
| 2 | 46,575,000 | 46,725,000 | 622 | 781 | -0.738426087 | LYPD6,MMADHC |
| 2 | 46,650,000 | 46,800,000 | 623 | 878 | -0.532154646 | LYPD6,MMADHC |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 46,725,000 | 46,875,000 | 624 | 519 | 0.66135069 | LYPD6 |
| 2 | 46,800,000 | 46,950,000 | 625 | 431 | 0.187026654 | |
| 2 | 46,875,000 | 47,025,000 | 626 | 608 | -1.09497681 | |
| 2 | 46,950,000 | 47,100,000 | 627 | 959 | -0.131797858 | LYPD6B |
| 2 | 47,025,000 | 47,175,000 | 628 | 856 | 0.14536469 | LYPD6B |
| 2 | 47,100,000 | 47,250,000 | 629 | 966 | -0.15476754 | |
| 2 | 47,175,000 | 47,325,000 | 630 | 1188 | 0.434081964 | KIF5C |
| 2 | 47,250,000 | 47,400,000 | 631 | 1052 | 0.791779779 | KIF5C |
| 2 | 47,325,000 | 47,475,000 | 632 | 777 | 0.715969399 | KIF5C |
| 2 | 47,400,000 | 47,550,000 | 633 | 482 | 0.475270058 | EPC2,KIF5C |
| 2 | 47,475,000 | 47,625,000 | 634 | 385 | 0.853539827 | EPC2 |
| 2 | 47,550,000 | 47,700,000 | 635 | 378 | 0.869863741 | EPC2 |
| 2 | 47,625,000 | 47,775,000 | 636 | 433 | 0.176769651 | EPC2 |
| 2 | 47,700,000 | 47,850,000 | 637 | 349 | -0.939959782 | MBD5 |
| 2 | 47,775,000 | 47,925,000 | 638 | 234 | -1.181954463 | MBD5 |
| 2 | 47,850,000 | 48,000,000 | 639 | 300 | -0.936001379 | MBD5,PTMA |
| 2 | 47,925,000 | 48,075,000 | 640 | 364 | -1.088861898 | PTMA |
| 2 | 48,000,000 | 48,150,000 | 641 | 350 | -1.158275759 | |
| 2 | 48,075,000 | 48,225,000 | 642 | 472 | -1.303939686 | |
| 2 | 48,150,000 | 48,300,000 | 643 | 781 | -0.194349355 | ORC4 |
| 2 | 48,225,000 | 48,375,000 | 644 | 705 | 0.506784751 | ORC4 |
| 2 | 48,300,000 | 48,450,000 | 645 | 400 | 0.230934336 | ACVR2A,ORC4 |
| 2 | 48,375,000 | 48,525,000 | 646 | 372 | 0.239684175 | ACVR2A,ORC4 |
| 2 | 48,450,000 | 48,600,000 | 647 | 509 | -0.592590565 | ACVR2A |
| 2 | 48,525,000 | 48,675,000 | 648 | 442 | -1.251245436 | |
| 2 | 48,600,000 | 48,750,000 | 649 | 218 | -1.565261711 | |
| 2 | 48,675,000 | 48,825,000 | 650 | 387 | -0.463559398 | |
| 2 | 48,750,000 | 48,900,000 | 651 | 510 | -0.035484021 | |
| 2 | 48,825,000 | 48,975,000 | 652 | 477 | -0.904274832 | |
| 2 | 48,900,000 | 49,050,000 | 653 | 586 | -0.968496565 | |
| 2 | 48,975,000 | 49,125,000 | 654 | 832 | -2.66803885 | |
| 2 | 49,050,000 | 49,200,000 | 655 | 968 | -3.244179478 | |
| 2 | 49,125,000 | 49,275,000 | 656 | 657 | -2.487474248 | |
| 2 | 49,200,000 | 49,350,000 | 657 | 384 | -0.224040579 | |
| 2 | 49,275,000 | 49,425,000 | 658 | 455 | -0.964038318 | ENSBTAG00000046032 |
| 2 | 49,350,000 | 49,500,000 | 659 | 395 | -1.834258991 | ENSBTAG00000046032 |
| 2 | 49,425,000 | 49,575,000 | 660 | 536 | -1.202950133 | |
| 2 | 49,500,000 | 49,650,000 | 661 | 563 | -1.336559585 | |
| 2 | 49,575,000 | 49,725,000 | 662 | 356 | -0.701827486 | |
| 2 | 49,650,000 | 49,800,000 | 663 | 544 | -0.054261551 | SNRPD1 |
| 2 | 49,725,000 | 49,875,000 | 664 | 722 | 0.216556564 | SNRPD1 |
| 2 | 49,800,000 | 49,950,000 | 665 | 737 | 0.164639908 | |
| 2 | 49,875,000 | 50,025,000 | 666 | 887 | -1.357580436 | |
| 2 | 49,950,000 | 50,100,000 | 667 | 844 | -1.671611122 | |
| 2 | 50,025,000 | 50,175,000 | 668 | 588 | -0.379700946 | |
| 2 | 50,100,000 | 50,250,000 | 669 | 554 | 0.112982208 | |
| 2 | 50,175,000 | 50,325,000 | 670 | 484 | -0.167498709 | |
| 2 | 50,250,000 | 50,400,000 | 671 | 379 | -0.259363837 | |
| 2 | 50,325,000 | 50,475,000 | 672 | 355 | 0.062626366 | |
| 2 | 50,400,000 | 50,550,000 | 673 | 464 | 0.017725993 | |
| 2 | 50,475,000 | 50,625,000 | 674 | 577 | 0.125073716 | |
| 2 | 50,550,000 | 50,700,000 | 675 | 507 | 0.248971925 | |
| 2 | 50,625,000 | 50,775,000 | 676 | 634 | 0.659733601 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------|
| 2 | 50,700,000 | 50,850,000 | 677 | 745 | 0.458003375 | |
| 2 | 50,775,000 | 50,925,000 | 678 | 585 | -1.030671557 | |
| 2 | 50,850,000 | 51,000,000 | 679 | 763 | -0.3507397 | |
| 2 | 50,925,000 | 51,075,000 | 680 | 1101 | 0.581547103 | |
| 2 | 51,000,000 | 51,150,000 | 681 | 858 | 0.673757217 | |
| 2 | 51,075,000 | 51,225,000 | 682 | 629 | 0.15138342 | |
| 2 | 51,150,000 | 51,300,000 | 683 | 830 | 0.025010399 | |
| 2 | 51,225,000 | 51,375,000 | 684 | 703 | -0.598575813 | |
| 2 | 51,300,000 | 51,450,000 | 685 | 1150 | -0.621193615 | |
| 2 | 51,375,000 | 51,525,000 | 686 | 1258 | -0.308303974 | |
| 2 | 51,450,000 | 51,600,000 | 687 | 490 | -0.069183349 | |
| 2 | 51,525,000 | 51,675,000 | 688 | 313 | -0.057288377 | |
| 2 | 51,600,000 | 51,750,000 | 689 | 463 | -0.493976349 | |
| 2 | 51,675,000 | 51,825,000 | 690 | 499 | -0.19695195 | |
| 2 | 51,750,000 | 51,900,000 | 691 | 405 | -0.848543483 | |
| 2 | 51,825,000 | 51,975,000 | 692 | 686 | -1.973725042 | |
| 2 | 51,900,000 | 52,050,000 | 693 | 742 | -2.178168285 | |
| 2 | 51,975,000 | 52,125,000 | 694 | 701 | -1.712744307 | |
| 2 | 52,050,000 | 52,200,000 | 695 | 685 | -0.442200658 | |
| 2 | 52,125,000 | 52,275,000 | 696 | 490 | 0.252646591 | |
| 2 | 52,200,000 | 52,350,000 | 697 | 381 | -0.400692731 | ZEB2 |
| 2 | 52,275,000 | 52,425,000 | 698 | 285 | -0.800554898 | ZEB2 |
| 2 | 52,350,000 | 52,500,000 | 699 | 281 | -1.049082518 | ZEB2 |
| 2 | 52,425,000 | 52,575,000 | 700 | 256 | -1.279721292 | |
| 2 | 52,500,000 | 52,650,000 | 701 | 342 | -0.587744316 | GTDC1 |
| 2 | 52,575,000 | 52,725,000 | 702 | 380 | -0.036733216 | GTDC1 |
| 2 | 52,650,000 | 52,800,000 | 703 | 327 | -0.14006263 | GTDC1 |
| 2 | 52,725,000 | 52,875,000 | 704 | 371 | -0.141702729 | GTDC1 |
| 2 | 52,800,000 | 52,950,000 | 705 | 455 | -0.541893284 | GTDC1 |
| 2 | 52,875,000 | 53,025,000 | 706 | 589 | -0.249408273 | GTDC1 |
| 2 | 52,950,000 | 53,100,000 | 707 | 600 | -0.325839534 | ARHGAP15 |
| 2 | 53,025,000 | 53,175,000 | 708 | 477 | -0.373720402 | ARHGAP15 |
| 2 | 53,100,000 | 53,250,000 | 709 | 580 | 0.553331328 | ARHGAP15 |
| 2 | 53,175,000 | 53,325,000 | 710 | 612 | 0.525170568 | ARHGAP15 |
| 2 | 53,250,000 | 53,400,000 | 711 | 457 | 0.31576457 | ARHGAP15 |
| 2 | 53,325,000 | 53,475,000 | 712 | 447 | 0.057405368 | ARHGAP15 |
| 2 | 53,400,000 | 53,550,000 | 713 | 614 | 0.222953815 | ARHGAP15 |
| 2 | 53,475,000 | 53,625,000 | 714 | 781 | -0.046485223 | ARHGAP15 |
| 2 | 53,550,000 | 53,700,000 | 715 | 880 | -0.549580313 | ARHGAP15 |
| 2 | 53,625,000 | 53,775,000 | 716 | 800 | -0.092256282 | ARHGAP15 |
| 2 | 53,700,000 | 53,850,000 | 717 | 1159 | -0.256195552 | ARHGAP15,KYNU |
| 2 | 53,775,000 | 53,925,000 | 718 | 1290 | -0.600723154 | KYNU |
| 2 | 53,850,000 | 54,000,000 | 719 | 753 | -1.712219534 | KYNU |
| 2 | 53,925,000 | 54,075,000 | 720 | 585 | -1.464028937 | KYNU |
| 2 | 54,000,000 | 54,150,000 | 721 | 604 | -0.147575276 | |
| 2 | 54,075,000 | 54,225,000 | 722 | 706 | 0.169673271 | |
| 2 | 54,150,000 | 54,300,000 | 723 | 905 | 0.940321565 | |
| 2 | 54,225,000 | 54,375,000 | 724 | 788 | 0.864205289 | |
| 2 | 54,300,000 | 54,450,000 | 725 | 797 | -0.735103844 | |
| 2 | 54,375,000 | 54,525,000 | 726 | 865 | -1.139696348 | |
| 2 | 54,450,000 | 54,600,000 | 727 | 747 | -0.003718177 | |
| 2 | 54,525,000 | 54,675,000 | 728 | 514 | 0.795817108 | |
| 2 | 54,600,000 | 54,750,000 | 729 | 500 | 0.400509899 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------|
| 2 | 54,675,000 | 54,825,000 | 730 | 810 | 0.223653169 | |
| 2 | 54,750,000 | 54,900,000 | 731 | 854 | 0.403961436 | |
| 2 | 54,825,000 | 54,975,000 | 732 | 921 | 0.395370255 | |
| 2 | 54,900,000 | 55,050,000 | 733 | 1221 | -0.980019853 | |
| 2 | 54,975,000 | 55,125,000 | 734 | 1411 | -1.658447042 | |
| 2 | 55,050,000 | 55,200,000 | 735 | 1064 | -0.963993671 | |
| 2 | 55,125,000 | 55,275,000 | 736 | 914 | 0.075802658 | |
| 2 | 55,200,000 | 55,350,000 | 737 | 1072 | -0.307904935 | |
| 2 | 55,275,000 | 55,425,000 | 738 | 931 | -0.272020824 | |
| 2 | 55,350,000 | 55,500,000 | 739 | 789 | 0.647563892 | |
| 2 | 55,425,000 | 55,575,000 | 740 | 920 | 0.592785261 | ENSBTAG00000032264 |
| 2 | 55,500,000 | 55,650,000 | 741 | 1040 | -0.299460261 | ENSBTAG00000032264 |
| 2 | 55,575,000 | 55,725,000 | 742 | 1050 | -0.651754069 | |
| 2 | 55,650,000 | 55,800,000 | 743 | 738 | -0.966316141 | |
| 2 | 55,725,000 | 55,875,000 | 744 | 895 | -1.808228352 | |
| 2 | 55,800,000 | 55,950,000 | 745 | 1067 | -1.756364118 | |
| 2 | 55,875,000 | 56,025,000 | 746 | 641 | -1.242121413 | |
| 2 | 55,950,000 | 56,100,000 | 747 | 736 | 0.284693854 | |
| 2 | 56,025,000 | 56,175,000 | 748 | 998 | 0.998883323 | |
| 2 | 56,100,000 | 56,250,000 | 749 | 715 | 0.639874058 | |
| 2 | 56,175,000 | 56,325,000 | 750 | 650 | 0.175289842 | |
| 2 | 56,250,000 | 56,400,000 | 751 | 1229 | 0.666657563 | |
| 2 | 56,325,000 | 56,475,000 | 752 | 1434 | 0.449598846 | |
| 2 | 56,400,000 | 56,550,000 | 753 | 1012 | 0.09813991 | |
| 2 | 56,475,000 | 56,625,000 | 754 | 646 | -0.114192745 | |
| 2 | 56,550,000 | 56,700,000 | 755 | 814 | -0.711992067 | |
| 2 | 56,625,000 | 56,775,000 | 756 | 1016 | -0.585991112 | LRP1B |
| 2 | 56,700,000 | 56,850,000 | 757 | 963 | -0.061421332 | LRP1B |
| 2 | 56,775,000 | 56,925,000 | 758 | 1110 | -0.038840493 | LRP1B |
| 2 | 56,850,000 | 57,000,000 | 759 | 842 | -0.121393421 | LRP1B |
| 2 | 56,925,000 | 57,075,000 | 760 | 364 | -0.026621216 | LRP1B |
| 2 | 57,000,000 | 57,150,000 | 761 | 461 | 0.333299405 | LRP1B |
| 2 | 57,075,000 | 57,225,000 | 762 | 480 | -0.109716477 | |
| 2 | 57,150,000 | 57,300,000 | 763 | 464 | -1.065928378 | |
| 2 | 57,225,000 | 57,375,000 | 764 | 504 | -0.97848419 | |
| 2 | 57,300,000 | 57,450,000 | 765 | 415 | -1.370535177 | |
| 2 | 57,375,000 | 57,525,000 | 766 | 446 | -2.850833316 | |
| 2 | 57,450,000 | 57,600,000 | 767 | 647 | -2.114197073 | |
| 2 | 57,525,000 | 57,675,000 | 768 | 925 | 0.02998373 | |
| 2 | 57,600,000 | 57,750,000 | 769 | 1137 | 0.873060188 | |
| 2 | 57,675,000 | 57,825,000 | 770 | 779 | 0.974048212 | |
| 2 | 57,750,000 | 57,900,000 | 771 | 748 | 0.276782968 | |
| 2 | 57,825,000 | 57,975,000 | 772 | 1168 | -0.340390759 | |
| 2 | 57,900,000 | 58,050,000 | 773 | 797 | -0.599450669 | |
| 2 | 57,975,000 | 58,125,000 | 774 | 421 | -0.306512444 | |
| 2 | 58,050,000 | 58,200,000 | 775 | 441 | -0.287546908 | |
| 2 | 58,125,000 | 58,275,000 | 776 | 502 | 0.283393002 | |
| 2 | 58,200,000 | 58,350,000 | 777 | 602 | 0.661219249 | |
| 2 | 58,275,000 | 58,425,000 | 778 | 980 | 0.575897457 | |
| 2 | 58,350,000 | 58,500,000 | 779 | 1091 | 0.584400139 | |
| 2 | 58,425,000 | 58,575,000 | 780 | 868 | 0.685946333 | ENSBTAG00000017629 |
| 2 | 58,500,000 | 58,650,000 | 781 | 1074 | 0.080591163 | NXP2,ENSBTAG00000017629 |
| 2 | 58,575,000 | 58,725,000 | 782 | 811 | -0.485213903 | NXP2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------|
| 2 | 58,650,000 | 58,800,000 | 783 | 480 | -0.227680453 | NXPH2,SPOPL |
| 2 | 58,725,000 | 58,875,000 | 784 | 409 | 0.288470526 | SPOPL |
| 2 | 58,800,000 | 58,950,000 | 785 | 230 | 0.877228771 | SPOPL |
| 2 | 58,875,000 | 59,025,000 | 786 | 358 | -0.025559908 | |
| 2 | 58,950,000 | 59,100,000 | 787 | 927 | 0.463072108 | |
| 2 | 59,025,000 | 59,175,000 | 788 | 1335 | 0.418538428 | ENSBTAG00000001627 |
| 2 | 59,100,000 | 59,250,000 | 789 | 1120 | 0.392142064 | ENSBTAG00000001627 |
| 2 | 59,175,000 | 59,325,000 | 790 | 697 | -0.032166998 | |
| 2 | 59,250,000 | 59,400,000 | 791 | 362 | -1.008045474 | HNMT |
| 2 | 59,325,000 | 59,475,000 | 792 | 499 | 1.017810574 | HNMT |
| 2 | 59,400,000 | 59,550,000 | 793 | 755 | 0.947557039 | HNMT |
| 2 | 59,475,000 | 59,625,000 | 794 | 1187 | 0.405899596 | |
| 2 | 59,550,000 | 59,700,000 | 795 | 1317 | 0.417704876 | ENSBTAG00000039437 |
| 2 | 59,625,000 | 59,775,000 | 796 | 1262 | 0.505981485 | THSD7B,ENSBTAG00000039437 |
| 2 | 59,700,000 | 59,850,000 | 797 | 1902 | 0.818727735 | THSD7B |
| 2 | 59,775,000 | 59,925,000 | 798 | 2005 | 0.84690097 | THSD7B |
| 2 | 59,850,000 | 60,000,000 | 799 | 1278 | 0.802483437 | THSD7B |
| 2 | 59,925,000 | 60,075,000 | 800 | 854 | 0.762090455 | THSD7B |
| 2 | 60,000,000 | 60,150,000 | 801 | 926 | 0.628190238 | THSD7B |
| 2 | 60,075,000 | 60,225,000 | 802 | 1094 | 0.514388093 | THSD7B |
| 2 | 60,150,000 | 60,300,000 | 803 | 1152 | 0.103931948 | THSD7B |
| 2 | 60,225,000 | 60,375,000 | 804 | 903 | -0.178540002 | THSD7B |
| 2 | 60,300,000 | 60,450,000 | 805 | 1088 | -0.374076121 | THSD7B |
| 2 | 60,375,000 | 60,525,000 | 806 | 1442 | 0.029912545 | THSD7B |
| 2 | 60,450,000 | 60,600,000 | 807 | 1136 | 0.202702482 | THSD7B |
| 2 | 60,525,000 | 60,675,000 | 808 | 718 | -0.478487293 | THSD7B |
| 2 | 60,600,000 | 60,750,000 | 809 | 806 | -1.241727287 | |
| 2 | 60,675,000 | 60,825,000 | 810 | 948 | -2.205988549 | |
| 2 | 60,750,000 | 60,900,000 | 811 | 730 | -2.348647975 | |
| 2 | 60,825,000 | 60,975,000 | 812 | 560 | -1.033023438 | |
| 2 | 60,900,000 | 61,050,000 | 813 | 699 | -5.011734538 | |
| 2 | 60,975,000 | 61,125,000 | 814 | 963 | -4.267017798 | |
| 2 | 61,050,000 | 61,200,000 | 815 | 998 | -0.131430814 | |
| 2 | 61,125,000 | 61,275,000 | 816 | 785 | 0.737204725 | |
| 2 | 61,200,000 | 61,350,000 | 817 | 898 | 1.056807336 | |
| 2 | 61,275,000 | 61,425,000 | 818 | 1059 | 0.759132731 | |
| 2 | 61,350,000 | 61,500,000 | 819 | 599 | 0.047473168 | |
| 2 | 61,425,000 | 61,575,000 | 820 | 342 | -0.597945881 | |
| 2 | 61,500,000 | 61,650,000 | 821 | 578 | 0.508806417 | CXCR4 |
| 2 | 61,575,000 | 61,725,000 | 822 | 740 | 0.783389601 | CXCR4,DARS |
| 2 | 61,650,000 | 61,800,000 | 823 | 880 | -1.12092333 | DARS |
| 2 | 61,725,000 | 61,875,000 | 824 | 1153 | -0.928931175 | DARS,LCT,MCM6 |
| 2 | 61,800,000 | 61,950,000 | 825 | 914 | -0.44120323 | LCT,MCM6,UBXN4 |
| 2 | 61,875,000 | 62,025,000 | 826 | 649 | -1.72964126 | LCT,R3HDM1,UBXN4 |
| 2 | 61,950,000 | 62,100,000 | 827 | 910 | -1.895356653 | R3HDM1 |
| 2 | 62,025,000 | 62,175,000 | 828 | 1077 | -1.599172216 | R3HDM1 |
| 2 | 62,100,000 | 62,250,000 | 829 | 1116 | -0.383297571 | R3HDM1 |
| 2 | 62,175,000 | 62,325,000 | 830 | 899 | 0.567523942 | ZRANB3 |
| 2 | 62,250,000 | 62,400,000 | 831 | 838 | 0.034114086 | ZRANB3 |
| 2 | 62,325,000 | 62,475,000 | 832 | 952 | 0.270162325 | RAB3GAP1,ZRANB3 |
| 2 | 62,400,000 | 62,550,000 | 833 | 708 | 0.420636646 | RAB3GAP1,ZRANB3 |
| 2 | 62,475,000 | 62,625,000 | 834 | 616 | 0.334381472 | MAP3K19,RAB3GAP1 |
| 2 | 62,550,000 | 62,700,000 | 835 | 705 | 0.069325062 | ACMSD,CCNT2,MAP3K19,RAB3GAP1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 2 | 62,625,000 | 62,775,000 | 836 | 695 | -0.045303509 | ACMSD,CCNT2,MAP3K19 |
| 2 | 62,700,000 | 62,850,000 | 837 | 790 | 0.594073079 | ACMSD,TMEM163 |
| 2 | 62,775,000 | 62,925,000 | 838 | 941 | 0.022078008 | TMEM163 |
| 2 | 62,850,000 | 63,000,000 | 839 | 799 | -0.503819024 | TMEM163 |
| 2 | 62,925,000 | 63,075,000 | 840 | 534 | -0.474049962 | TMEM163 |
| 2 | 63,000,000 | 63,150,000 | 841 | 598 | 0.145106949 | MGAT5,TMEM163 |
| 2 | 63,075,000 | 63,225,000 | 842 | 631 | 0.891380334 | MGAT5,TMEM163 |
| 2 | 63,150,000 | 63,300,000 | 843 | 717 | 0.758195702 | MGAT5 |
| 2 | 63,225,000 | 63,375,000 | 844 | 969 | 0.73481941 | MGAT5 |
| 2 | 63,300,000 | 63,450,000 | 845 | 820 | -0.37465572 | MGAT5 |
| 2 | 63,375,000 | 63,525,000 | 846 | 524 | -2.93031519 | |
| 2 | 63,450,000 | 63,600,000 | 847 | 484 | -2.294059963 | |
| 2 | 63,525,000 | 63,675,000 | 848 | 463 | -1.353144627 | |
| 2 | 63,600,000 | 63,750,000 | 849 | 442 | -0.722080504 | |
| 2 | 63,675,000 | 63,825,000 | 850 | 426 | -0.541984175 | |
| 2 | 63,750,000 | 63,900,000 | 851 | 373 | -1.02061005 | |
| 2 | 63,825,000 | 63,975,000 | 852 | 542 | -0.820431915 | |
| 2 | 63,900,000 | 64,050,000 | 853 | 615 | -1.064947364 | |
| 2 | 63,975,000 | 64,125,000 | 854 | 401 | -0.748208474 | |
| 2 | 64,050,000 | 64,200,000 | 855 | 370 | -0.432620627 | |
| 2 | 64,125,000 | 64,275,000 | 856 | 543 | -1.759774459 | |
| 2 | 64,200,000 | 64,350,000 | 857 | 455 | -1.715100881 | |
| 2 | 64,275,000 | 64,425,000 | 858 | 502 | 0.554575295 | |
| 2 | 64,350,000 | 64,500,000 | 859 | 664 | -0.053104855 | |
| 2 | 64,425,000 | 64,575,000 | 860 | 639 | -3.231299445 | |
| 2 | 64,500,000 | 64,650,000 | 861 | 593 | -3.384357482 | |
| 2 | 64,575,000 | 64,725,000 | 862 | 379 | -1.109927586 | |
| 2 | 64,650,000 | 64,800,000 | 863 | 277 | 0.836379495 | |
| 2 | 64,725,000 | 64,875,000 | 864 | 344 | 0.498218113 | |
| 2 | 64,800,000 | 64,950,000 | 865 | 255 | -0.406996281 | |
| 2 | 64,875,000 | 65,025,000 | 866 | 724 | 0.617263759 | |
| 2 | 64,950,000 | 65,100,000 | 867 | 1092 | 0.637517826 | NCKAP5 |
| 2 | 65,025,000 | 65,175,000 | 868 | 939 | 0.745900908 | NCKAP5 |
| 2 | 65,100,000 | 65,250,000 | 869 | 826 | 0.862977391 | LYPD1,NCKAP5 |
| 2 | 65,175,000 | 65,325,000 | 870 | 721 | 0.702121359 | LYPD1,ENSBTAG00000047466 |
| 2 | 65,250,000 | 65,400,000 | 871 | 608 | 0.913610182 | LYPD1,ENSBTAG00000047466 |
| 2 | 65,325,000 | 65,475,000 | 872 | 979 | 1.256763192 | |
| 2 | 65,400,000 | 65,550,000 | 873 | 1452 | 0.986995034 | GPR39 |
| 2 | 65,475,000 | 65,625,000 | 874 | 1244 | 0.571917034 | GPR39 |
| 2 | 65,550,000 | 65,700,000 | 875 | 834 | 0.568984114 | SLC35F5 |
| 2 | 65,625,000 | 65,775,000 | 876 | 458 | 0.535193751 | SLC35F5 |
| 2 | 65,700,000 | 65,850,000 | 877 | 464 | -1.073399328 | SLC35F5 |
| 2 | 65,775,000 | 65,925,000 | 878 | 540 | -1.02431677 | ACTR3 |
| 2 | 65,850,000 | 66,000,000 | 879 | 839 | 0.431133015 | ACTR3 |
| 2 | 65,925,000 | 66,075,000 | 880 | 946 | 1.121169921 | |
| 2 | 66,000,000 | 66,150,000 | 881 | 927 | 1.09994697 | |
| 2 | 66,075,000 | 66,225,000 | 882 | 1016 | 0.892515704 | |
| 2 | 66,150,000 | 66,300,000 | 883 | 771 | 0.011585622 | |
| 2 | 66,225,000 | 66,375,000 | 884 | 529 | -0.486286877 | |
| 2 | 66,300,000 | 66,450,000 | 885 | 1008 | 0.927644915 | |
| 2 | 66,375,000 | 66,525,000 | 886 | 1640 | 0.992752158 | |
| 2 | 66,450,000 | 66,600,000 | 887 | 1613 | 0.6737094 | |
| 2 | 66,525,000 | 66,675,000 | 888 | 1502 | 0.633967728 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 2 | 66,600,000 | 66,750,000 | 889 | 1347 | 0.754556981 | |
| 2 | 66,675,000 | 66,825,000 | 890 | 1309 | 0.836344291 | |
| 2 | 66,750,000 | 66,900,000 | 891 | 1378 | 1.092000315 | |
| 2 | 66,825,000 | 66,975,000 | 892 | 1418 | 1.134674198 | |
| 2 | 66,900,000 | 67,050,000 | 893 | 1433 | 0.772609223 | |
| 2 | 66,975,000 | 67,125,000 | 894 | 1671 | 0.433166274 | |
| 2 | 67,050,000 | 67,200,000 | 895 | 1638 | 0.420931253 | |
| 2 | 67,125,000 | 67,275,000 | 896 | 917 | 0.348739493 | |
| 2 | 67,200,000 | 67,350,000 | 897 | 775 | 1.1951338 | |
| 2 | 67,275,000 | 67,425,000 | 898 | 945 | 1.212042357 | |
| 2 | 67,350,000 | 67,500,000 | 899 | 839 | 1.127540413 | |
| 2 | 67,425,000 | 67,575,000 | 900 | 945 | 0.752620649 | |
| 2 | 67,500,000 | 67,650,000 | 901 | 913 | 0.005099946 | |
| 2 | 67,575,000 | 67,725,000 | 902 | 836 | -0.210776803 | |
| 2 | 67,650,000 | 67,800,000 | 903 | 891 | 0.128357854 | |
| 2 | 67,725,000 | 67,875,000 | 904 | 1075 | -0.013893073 | |
| 2 | 67,800,000 | 67,950,000 | 905 | 1271 | 0.201058488 | DPP10 |
| 2 | 67,875,000 | 68,025,000 | 906 | 1025 | 0.201566817 | DPP10 |
| 2 | 67,950,000 | 68,100,000 | 907 | 815 | -0.767810585 | DPP10 |
| 2 | 68,025,000 | 68,175,000 | 908 | 939 | -1.659815549 | DPP10 |
| 2 | 68,100,000 | 68,250,000 | 909 | 969 | -2.435570209 | DPP10 |
| 2 | 68,175,000 | 68,325,000 | 910 | 968 | -2.705245483 | |
| 2 | 68,250,000 | 68,400,000 | 911 | 947 | -2.648766245 | |
| 2 | 68,325,000 | 68,475,000 | 912 | 807 | -2.288555796 | |
| 2 | 68,400,000 | 68,550,000 | 913 | 985 | -0.104848008 | ENSBTAG00000046281 |
| 2 | 68,475,000 | 68,625,000 | 914 | 1189 | 0.94394492 | ENSBTAG00000046281 |
| 2 | 68,550,000 | 68,700,000 | 915 | 950 | 1.000716688 | |
| 2 | 68,625,000 | 68,775,000 | 916 | 641 | -0.022996007 | |
| 2 | 68,700,000 | 68,850,000 | 917 | 540 | -2.25024756 | |
| 2 | 68,775,000 | 68,925,000 | 918 | 884 | -1.310249928 | |
| 2 | 68,850,000 | 69,000,000 | 919 | 986 | -0.636529582 | |
| 2 | 68,925,000 | 69,075,000 | 920 | 985 | -0.301755912 | |
| 2 | 69,000,000 | 69,150,000 | 921 | 960 | 0.10156238 | |
| 2 | 69,075,000 | 69,225,000 | 922 | 573 | 0.522043182 | |
| 2 | 69,150,000 | 69,300,000 | 923 | 504 | 0.195556836 | |
| 2 | 69,225,000 | 69,375,000 | 924 | 700 | -1.147284473 | |
| 2 | 69,300,000 | 69,450,000 | 925 | 710 | -2.059729713 | |
| 2 | 69,375,000 | 69,525,000 | 926 | 501 | -1.315108921 | |
| 2 | 69,450,000 | 69,600,000 | 927 | 672 | -0.278390141 | |
| 2 | 69,525,000 | 69,675,000 | 928 | 987 | 0.56495379 | |
| 2 | 69,600,000 | 69,750,000 | 929 | 882 | 0.995705385 | |
| 2 | 69,675,000 | 69,825,000 | 930 | 655 | 1.104733622 | |
| 2 | 69,750,000 | 69,900,000 | 931 | 614 | 1.024914281 | ENSBTAG00000015077,ENSBTAG00000016785 |
| 2 | 69,825,000 | 69,975,000 | 932 | 975 | 0.797245574 | CCDC93,ENSBTAG00000015077,ENSBTAG00000016785 |
| 2 | 69,900,000 | 70,050,000 | 933 | 939 | 0.885232971 | CCDC93,ENSBTAG00000016785 |
| 2 | 69,975,000 | 70,125,000 | 934 | 551 | 1.287635687 | CCDC93,INSIG2 |
| 2 | 70,050,000 | 70,200,000 | 935 | 679 | 1.211860952 | INSIG2 |
| 2 | 70,125,000 | 70,275,000 | 936 | 775 | 1.122389695 | INSIG2 |
| 2 | 70,200,000 | 70,350,000 | 937 | 762 | 1.100371988 | |
| 2 | 70,275,000 | 70,425,000 | 938 | 779 | 0.859057434 | |
| 2 | 70,350,000 | 70,500,000 | 939 | 905 | 0.801968745 | |
| 2 | 70,425,000 | 70,575,000 | 940 | 1000 | 0.719010033 | |
| 2 | 70,500,000 | 70,650,000 | 941 | 874 | 0.46456209 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 2 | 70,575,000 | 70,725,000 | 942 | 886 | 0.239783883 | |
| 2 | 70,650,000 | 70,800,000 | 943 | 969 | 0.062192426 | |
| 2 | 70,725,000 | 70,875,000 | 944 | 901 | 0.297280221 | |
| 2 | 70,800,000 | 70,950,000 | 945 | 691 | 0.353665826 | |
| 2 | 70,875,000 | 71,025,000 | 946 | 706 | 0.581684651 | EN1 |
| 2 | 70,950,000 | 71,100,000 | 947 | 900 | 0.564190772 | EN1,MARCO |
| 2 | 71,025,000 | 71,175,000 | 948 | 982 | 0.465542207 | MARCO |
| 2 | 71,100,000 | 71,250,000 | 949 | 673 | -0.023461888 | MARCO |
| 2 | 71,175,000 | 71,325,000 | 950 | 678 | 0.101120659 | C1QL2,ENSBTAG00000020794 |
| 2 | 71,250,000 | 71,400,000 | 951 | 1210 | 1.078023593 | C1QL2,STEAP3,ENSBTAG00000020794 |
| 2 | 71,325,000 | 71,475,000 | 952 | 1438 | 1.247629954 | C2orf76,STEAP3 |
| 2 | 71,400,000 | 71,550,000 | 953 | 1326 | 1.189202745 | C2orf76,STEAP3 |
| 2 | 71,475,000 | 71,625,000 | 954 | 1208 | 0.813470016 | C2orf76,DBI,SCTR,TMEM37 |
| 2 | 71,550,000 | 71,700,000 | 955 | 1148 | 0.682472286 | C2orf76,DBI,SCTR,TMEM37 |
| 2 | 71,625,000 | 71,775,000 | 956 | 871 | 0.394241499 | CFAP221,SCTR |
| 2 | 71,700,000 | 71,850,000 | 957 | 725 | 0.544652513 | CFAP221,SCTR |
| 2 | 71,775,000 | 71,925,000 | 958 | 727 | 0.711325477 | CFAP221,TMEM177 |
| 2 | 71,850,000 | 72,000,000 | 959 | 504 | 0.672867024 | CFAP221,TMEM177 |
| 2 | 71,925,000 | 72,075,000 | 960 | 250 | 0.930095706 | PTPN4 |
| 2 | 72,000,000 | 72,150,000 | 961 | 195 | 0.917438461 | PTPN4 |
| 2 | 72,075,000 | 72,225,000 | 962 | 226 | 1.039104118 | EPB41L5,PTPN4 |
| 2 | 72,150,000 | 72,300,000 | 963 | 232 | 1.251416786 | EPB41L5 |
| 2 | 72,225,000 | 72,375,000 | 964 | 177 | 1.353470827 | EPB41L5,RALB,TMEM185B |
| 2 | 72,300,000 | 72,450,000 | 965 | 128 | 1.241453736 | EPB41L5,RALB,TMEM185B |
| 2 | 72,375,000 | 72,525,000 | 966 | 298 | 1.265373955 | INHBB,RALB |
| 2 | 72,450,000 | 72,600,000 | 967 | 434 | 1.110393143 | INHBB |
| 2 | 72,525,000 | 72,675,000 | 968 | 474 | 0.864640973 | INHBB |
| 2 | 72,600,000 | 72,750,000 | 969 | 459 | 0.404084396 | |
| 2 | 72,675,000 | 72,825,000 | 970 | 563 | 0.226497957 | |
| 2 | 72,750,000 | 72,900,000 | 971 | 512 | 0.836262172 | |
| 2 | 72,825,000 | 72,975,000 | 972 | 284 | 1.34012536 | |
| 2 | 72,900,000 | 73,050,000 | 973 | 384 | 1.240593406 | GLI2 |
| 2 | 72,975,000 | 73,125,000 | 974 | 366 | 1.224828308 | GLI2 |
| 2 | 73,050,000 | 73,200,000 | 975 | 330 | 1.151602277 | GLI2 |
| 2 | 73,125,000 | 73,275,000 | 976 | 544 | 0.983720125 | GLI2 |
| 2 | 73,200,000 | 73,350,000 | 977 | 839 | -0.622040042 | |
| 2 | 73,275,000 | 73,425,000 | 978 | 639 | -2.236749573 | TFCP2L1 |
| 2 | 73,350,000 | 73,500,000 | 979 | 254 | -1.122281071 | CLASP1,TFCP2L1 |
| 2 | 73,425,000 | 73,575,000 | 980 | 322 | -0.218090674 | CLASP1,TFCP2L1 |
| 2 | 73,500,000 | 73,650,000 | 981 | 752 | 0.629673689 | CLASP1 |
| 2 | 73,575,000 | 73,725,000 | 982 | 757 | 1.213787697 | CLASP1 |
| 2 | 73,650,000 | 73,800,000 | 983 | 476 | 1.34219862 | CLASP1 |
| 2 | 73,725,000 | 73,875,000 | 984 | 407 | 1.209531955 | NIFK,TSN |
| 2 | 73,800,000 | 73,950,000 | 985 | 508 | -0.145106255 | NIFK,TSN |
| 2 | 73,875,000 | 74,025,000 | 986 | 521 | -0.21770987 | |
| 2 | 73,950,000 | 74,100,000 | 987 | 572 | 0.716900118 | ENSBTAG00000026822 |
| 2 | 74,025,000 | 74,175,000 | 988 | 636 | 0.765799573 | ENSBTAG00000026822 |
| 2 | 74,100,000 | 74,250,000 | 989 | 761 | -2.346734153 | |
| 2 | 74,175,000 | 74,325,000 | 990 | 779 | -2.701276381 | |
| 2 | 74,250,000 | 74,400,000 | 991 | 704 | -0.47523516 | |
| 2 | 74,325,000 | 74,475,000 | 992 | 893 | -3.153931458 | |
| 2 | 74,400,000 | 74,550,000 | 993 | 980 | -4.148450349 | |
| 2 | 74,475,000 | 74,625,000 | 994 | 936 | -2.970925121 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------|
| 2 | 74,550,000 | 74,700,000 | 995 | 607 | -1.042456675 | ENSBTAG00000031918 |
| 2 | 74,625,000 | 74,775,000 | 996 | 458 | 0.094794577 | ENSBTAG00000031918 |
| 2 | 74,700,000 | 74,850,000 | 997 | 483 | -0.88834668 | |
| 2 | 74,775,000 | 74,925,000 | 998 | 678 | -0.994261236 | |
| 2 | 74,850,000 | 75,000,000 | 999 | 967 | -1.653304049 | |
| 2 | 74,925,000 | 75,075,000 | 1000 | 1047 | -0.546225369 | |
| 2 | 75,000,000 | 75,150,000 | 1001 | 1254 | 0.634051257 | |
| 2 | 75,075,000 | 75,225,000 | 1002 | 1150 | 0.499793032 | |
| 2 | 75,150,000 | 75,300,000 | 1003 | 767 | -0.92357817 | |
| 2 | 75,225,000 | 75,375,000 | 1004 | 673 | -1.822070067 | |
| 2 | 75,300,000 | 75,450,000 | 1005 | 1101 | -0.265209229 | ENSBTAG00000047681 |
| 2 | 75,375,000 | 75,525,000 | 1006 | 1323 | -0.245626949 | ENSBTAG00000047681 |
| 2 | 75,450,000 | 75,600,000 | 1007 | 749 | -1.623668585 | |
| 2 | 75,525,000 | 75,675,000 | 1008 | 748 | -3.467116362 | |
| 2 | 75,600,000 | 75,750,000 | 1009 | 1569 | -1.300719808 | |
| 2 | 75,675,000 | 75,825,000 | 1010 | 1914 | 0.079463576 | |
| 2 | 75,750,000 | 75,900,000 | 1011 | 1307 | -0.239038753 | |
| 2 | 75,825,000 | 75,975,000 | 1012 | 982 | -0.25604082 | |
| 2 | 75,900,000 | 76,050,000 | 1013 | 1438 | -0.564795723 | |
| 2 | 75,975,000 | 76,125,000 | 1014 | 1424 | -1.211391893 | |
| 2 | 76,050,000 | 76,200,000 | 1015 | 1132 | 0.169262268 | |
| 2 | 76,125,000 | 76,275,000 | 1016 | 1264 | 0.358576942 | |
| 2 | 76,200,000 | 76,350,000 | 1017 | 1282 | 0.102133428 | |
| 2 | 76,275,000 | 76,425,000 | 1018 | 1018 | 0.320540661 | |
| 2 | 76,350,000 | 76,500,000 | 1019 | 800 | 0.646246919 | |
| 2 | 76,425,000 | 76,575,000 | 1020 | 793 | 0.608912506 | |
| 2 | 76,500,000 | 76,650,000 | 1021 | 996 | 0.139572024 | |
| 2 | 76,575,000 | 76,725,000 | 1022 | 1277 | -0.005104745 | |
| 2 | 76,650,000 | 76,800,000 | 1023 | 1188 | -0.456411242 | CNTNAP5 |
| 2 | 76,725,000 | 76,875,000 | 1024 | 1176 | 0.105386694 | CNTNAP5 |
| 2 | 76,800,000 | 76,950,000 | 1025 | 1148 | 0.942811293 | CNTNAP5 |
| 2 | 76,875,000 | 77,025,000 | 1026 | 728 | 0.637550485 | CNTNAP5 |
| 2 | 76,950,000 | 77,100,000 | 1027 | 616 | 0.122287477 | CNTNAP5 |
| 2 | 77,025,000 | 77,175,000 | 1028 | 975 | 0.461343358 | CNTNAP5 |
| 2 | 77,100,000 | 77,250,000 | 1029 | 1308 | 0.580537208 | CNTNAP5 |
| 2 | 77,175,000 | 77,325,000 | 1030 | 1328 | 0.978815576 | CNTNAP5 |
| 2 | 77,250,000 | 77,400,000 | 1031 | 1469 | 1.051818789 | CNTNAP5 |
| 2 | 77,325,000 | 77,475,000 | 1032 | 1524 | 0.708122393 | |
| 2 | 77,400,000 | 77,550,000 | 1033 | 1258 | 0.424039208 | |
| 2 | 77,475,000 | 77,625,000 | 1034 | 1371 | 0.64975425 | |
| 2 | 77,550,000 | 77,700,000 | 1035 | 1421 | 0.794513937 | |
| 2 | 77,625,000 | 77,775,000 | 1036 | 1122 | 0.946458508 | |
| 2 | 77,700,000 | 77,850,000 | 1037 | 819 | 0.934395502 | |
| 2 | 77,775,000 | 77,925,000 | 1038 | 694 | 0.404248706 | |
| 2 | 77,850,000 | 78,000,000 | 1039 | 610 | 0.459992163 | |
| 2 | 77,925,000 | 78,075,000 | 1040 | 526 | -2.010849616 | |
| 2 | 78,000,000 | 78,150,000 | 1041 | 503 | -3.200073001 | |
| 2 | 78,075,000 | 78,225,000 | 1042 | 637 | -2.176557913 | |
| 2 | 78,150,000 | 78,300,000 | 1043 | 868 | -1.839545426 | |
| 2 | 78,225,000 | 78,375,000 | 1044 | 961 | 0.678306232 | |
| 2 | 78,300,000 | 78,450,000 | 1045 | 771 | 1.198133633 | |
| 2 | 78,375,000 | 78,525,000 | 1046 | 443 | 0.863261854 | |
| 2 | 78,450,000 | 78,600,000 | 1047 | 612 | 0.260370715 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------|
| 2 | 78,525,000 | 78,675,000 | 1048 | 962 | 0.317314751 | |
| 2 | 78,600,000 | 78,750,000 | 1049 | 948 | -1.820009797 | |
| 2 | 78,675,000 | 78,825,000 | 1050 | 796 | -1.679480881 | |
| 2 | 78,750,000 | 78,900,000 | 1051 | 1084 | 0.538541277 | |
| 2 | 78,825,000 | 78,975,000 | 1052 | 1316 | 0.268179684 | |
| 2 | 78,900,000 | 79,050,000 | 1053 | 1153 | 0.469546441 | |
| 2 | 78,975,000 | 79,125,000 | 1054 | 1012 | 0.3747995 | |
| 2 | 79,050,000 | 79,200,000 | 1055 | 901 | 0.131276075 | |
| 2 | 79,125,000 | 79,275,000 | 1056 | 849 | 0.608224906 | GPC |
| 2 | 79,200,000 | 79,350,000 | 1057 | 864 | 0.415396302 | GPC |
| 2 | 79,275,000 | 79,425,000 | 1058 | 685 | -0.798352942 | GPC |
| 2 | 79,350,000 | 79,500,000 | 1059 | 739 | -4.134970116 | |
| 2 | 79,425,000 | 79,575,000 | 1060 | 786 | -3.280963157 | |
| 2 | 79,500,000 | 79,650,000 | 1061 | 403 | 0.86719884 | |
| 2 | 79,575,000 | 79,725,000 | 1062 | 204 | 0.60936845 | |
| 2 | 79,650,000 | 79,800,000 | 1063 | 218 | 0.71463054 | GLS |
| 2 | 79,725,000 | 79,875,000 | 1064 | 266 | 0.74732632 | GLS |
| 2 | 79,800,000 | 79,950,000 | 1065 | 309 | 1.016894544 | GLS,STAT1 |
| 2 | 79,875,000 | 80,025,000 | 1066 | 523 | 1.011289191 | STAT1,STAT4 |
| 2 | 79,950,000 | 80,100,000 | 1067 | 621 | 1.08265709 | STAT1,STAT4 |
| 2 | 80,025,000 | 80,175,000 | 1068 | 569 | 1.055350695 | MYO1B,STAT4 |
| 2 | 80,100,000 | 80,250,000 | 1069 | 619 | 0.831999325 | MYO1B |
| 2 | 80,175,000 | 80,325,000 | 1070 | 539 | 0.737879307 | MYO1B |
| 2 | 80,250,000 | 80,400,000 | 1071 | 568 | 0.879660662 | MYO1B |
| 2 | 80,325,000 | 80,475,000 | 1072 | 667 | 0.995310136 | MYO1B |
| 2 | 80,400,000 | 80,550,000 | 1073 | 586 | 0.69514025 | |
| 2 | 80,475,000 | 80,625,000 | 1074 | 384 | 0.339630906 | |
| 2 | 80,550,000 | 80,700,000 | 1075 | 565 | 0.861367481 | NABP1 |
| 2 | 80,625,000 | 80,775,000 | 1076 | 901 | 0.993869573 | NABP1 |
| 2 | 80,700,000 | 80,850,000 | 1077 | 988 | 0.810701085 | |
| 2 | 80,775,000 | 80,925,000 | 1078 | 788 | 0.84172858 | SDPR |
| 2 | 80,850,000 | 81,000,000 | 1079 | 386 | 1.080897471 | SDPR,TMEFF2 |
| 2 | 80,925,000 | 81,075,000 | 1080 | 342 | 0.060070039 | TMEFF2 |
| 2 | 81,000,000 | 81,150,000 | 1081 | 472 | -0.443566682 | TMEFF2 |
| 2 | 81,075,000 | 81,225,000 | 1082 | 495 | -0.635710275 | TMEFF2 |
| 2 | 81,150,000 | 81,300,000 | 1083 | 544 | -0.3406932 | TMEFF2 |
| 2 | 81,225,000 | 81,375,000 | 1084 | 643 | -1.155843151 | TMEFF2 |
| 2 | 81,300,000 | 81,450,000 | 1085 | 642 | -1.993197213 | |
| 2 | 81,375,000 | 81,525,000 | 1086 | 541 | -2.120387949 | |
| 2 | 81,450,000 | 81,600,000 | 1087 | 447 | -1.83898231 | |
| 2 | 81,525,000 | 81,675,000 | 1088 | 357 | -0.726041544 | ENSBTAG00000047783 |
| 2 | 81,600,000 | 81,750,000 | 1089 | 373 | -0.295442423 | ENSBTAG00000047783 |
| 2 | 81,675,000 | 81,825,000 | 1090 | 482 | -0.110320009 | |
| 2 | 81,750,000 | 81,900,000 | 1091 | 761 | -0.784518848 | |
| 2 | 81,825,000 | 81,975,000 | 1092 | 819 | -1.112235728 | |
| 2 | 81,900,000 | 82,050,000 | 1093 | 608 | -0.201800223 | |
| 2 | 81,975,000 | 82,125,000 | 1094 | 1114 | 0.219092927 | |
| 2 | 82,050,000 | 82,200,000 | 1095 | 1242 | -2.430831252 | |
| 2 | 82,125,000 | 82,275,000 | 1096 | 1028 | -1.271428027 | |
| 2 | 82,200,000 | 82,350,000 | 1097 | 880 | 0.691826707 | |
| 2 | 82,275,000 | 82,425,000 | 1098 | 749 | 0.288580635 | |
| 2 | 82,350,000 | 82,500,000 | 1099 | 817 | -0.184885982 | |
| 2 | 82,425,000 | 82,575,000 | 1100 | 742 | -1.965798491 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 2 | 82,500,000 | 82,650,000 | 1101 | 841 | -3.701774921 | |
| 2 | 82,575,000 | 82,725,000 | 1102 | 1000 | -1.483098222 | |
| 2 | 82,650,000 | 82,800,000 | 1103 | 1083 | 0.725906191 | |
| 2 | 82,725,000 | 82,875,000 | 1104 | 780 | 0.782423911 | |
| 2 | 82,800,000 | 82,950,000 | 1105 | 747 | 0.082654738 | ENSBTAG00000037816 |
| 2 | 82,875,000 | 83,025,000 | 1106 | 884 | 0.562460317 | ENSBTAG00000037816 |
| 2 | 82,950,000 | 83,100,000 | 1107 | 1238 | 1.285450114 | |
| 2 | 83,025,000 | 83,175,000 | 1108 | 1371 | 1.340623658 | |
| 2 | 83,100,000 | 83,250,000 | 1109 | 1110 | 1.243546558 | |
| 2 | 83,175,000 | 83,325,000 | 1110 | 1380 | 0.961009943 | |
| 2 | 83,250,000 | 83,400,000 | 1111 | 1401 | 0.70262309 | |
| 2 | 83,325,000 | 83,475,000 | 1112 | 1139 | 0.405952858 | |
| 2 | 83,400,000 | 83,550,000 | 1113 | 813 | -0.438240442 | |
| 2 | 83,475,000 | 83,625,000 | 1114 | 729 | -1.146560565 | |
| 2 | 83,550,000 | 83,700,000 | 1115 | 758 | -0.41944852 | |
| 2 | 83,625,000 | 83,775,000 | 1116 | 483 | -0.349839808 | |
| 2 | 83,700,000 | 83,850,000 | 1117 | 333 | -1.125927539 | |
| 2 | 83,775,000 | 83,925,000 | 1118 | 408 | -0.075286008 | |
| 2 | 83,850,000 | 84,000,000 | 1119 | 503 | 0.446276505 | |
| 2 | 83,925,000 | 84,075,000 | 1120 | 629 | 0.623999125 | |
| 2 | 84,000,000 | 84,150,000 | 1121 | 759 | 0.686038481 | |
| 2 | 84,075,000 | 84,225,000 | 1122 | 439 | 0.591600286 | |
| 2 | 84,150,000 | 84,300,000 | 1123 | 225 | 0.202205359 | |
| 2 | 84,225,000 | 84,375,000 | 1124 | 274 | -0.409870444 | |
| 2 | 84,300,000 | 84,450,000 | 1125 | 364 | -0.285733723 | |
| 2 | 84,375,000 | 84,525,000 | 1126 | 421 | 0.137580858 | |
| 2 | 84,450,000 | 84,600,000 | 1127 | 364 | -0.49564545 | |
| 2 | 84,525,000 | 84,675,000 | 1128 | 489 | -0.599200161 | |
| 2 | 84,600,000 | 84,750,000 | 1129 | 408 | -0.435185749 | SLC39A10 |
| 2 | 84,675,000 | 84,825,000 | 1130 | 525 | 0.129623816 | DNAH7,SLC39A10 |
| 2 | 84,750,000 | 84,900,000 | 1131 | 900 | 0.476787629 | DNAH7,SLC39A10 |
| 2 | 84,825,000 | 84,975,000 | 1132 | 1270 | 0.393869255 | DNAH7 |
| 2 | 84,900,000 | 85,050,000 | 1133 | 1100 | -1.036085535 | DNAH7 |
| 2 | 84,975,000 | 85,125,000 | 1134 | 355 | -2.878604387 | DNAH7,STK17B |
| 2 | 85,050,000 | 85,200,000 | 1135 | 136 | -3.382164102 | HECW2,STK17B,ENSBTAG00000047862 |
| 2 | 85,125,000 | 85,275,000 | 1136 | 303 | -0.545056548 | HECW2,ENSBTAG00000047862 |
| 2 | 85,200,000 | 85,350,000 | 1137 | 512 | 1.180791017 | HECW2 |
| 2 | 85,275,000 | 85,425,000 | 1138 | 1015 | 1.207946085 | HECW2 |
| 2 | 85,350,000 | 85,500,000 | 1139 | 912 | 0.777431371 | |
| 2 | 85,425,000 | 85,575,000 | 1140 | 535 | -1.336606523 | |
| 2 | 85,500,000 | 85,650,000 | 1141 | 435 | -1.168276326 | CCDC150 |
| 2 | 85,575,000 | 85,725,000 | 1142 | 333 | 0.427814386 | CCDC150 |
| 2 | 85,650,000 | 85,800,000 | 1143 | 314 | 0.876483241 | CCDC150,GTF3C3,ENSBTAG00000047452 |
| 2 | 85,725,000 | 85,875,000 | 1144 | 202 | 0.514216856 | CCDC150,GTF3C3,PGAP1,ENSBTAG00000047452 |
| 2 | 85,800,000 | 85,950,000 | 1145 | 357 | 0.411472769 | PGAP1,ENSBTAG00000047452 |
| 2 | 85,875,000 | 86,025,000 | 1146 | 592 | -0.329792108 | ANKRD44,PGAP1 |
| 2 | 85,950,000 | 86,100,000 | 1147 | 861 | -0.32490616 | ANKRD44 |
| 2 | 86,025,000 | 86,175,000 | 1148 | 995 | 0.598684081 | ANKRD44 |
| 2 | 86,100,000 | 86,250,000 | 1149 | 856 | 0.910259023 | ANKRD44 |
| 2 | 86,175,000 | 86,325,000 | 1150 | 587 | 0.608217921 | |
| 2 | 86,250,000 | 86,400,000 | 1151 | 317 | 0.081882544 | SF3B1,ENSBTAG00000012171 |
| 2 | 86,325,000 | 86,475,000 | 1152 | 240 | 0.848273098 | COQ10B,HSPD1,HSPE1,MOBKL3,SF3B1,ENSBTAG00000012171 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 2 | 86,400,000 | 86,550,000 | 1153 | 409 | 1.22759716 | COQ10B,HSPD1,HSPE1,MOBKL3,RFTN2 |
| 2 | 86,475,000 | 86,625,000 | 1154 | 437 | 1.21408603 | MARS2,MOBKL3,RFTN2 |
| 2 | 86,550,000 | 86,700,000 | 1155 | 299 | 0.929510696 | BOLL,MARS2,RFTN2 |
| 2 | 86,625,000 | 86,775,000 | 1156 | 302 | 0.234650701 | BOLL,PLCL1 |
| 2 | 86,700,000 | 86,850,000 | 1157 | 476 | 0.576671433 | PLCL1 |
| 2 | 86,775,000 | 86,925,000 | 1158 | 578 | 0.783033481 | PLCL1 |
| 2 | 86,850,000 | 87,000,000 | 1159 | 583 | 0.986231131 | PLCL1 |
| 2 | 86,925,000 | 87,075,000 | 1160 | 707 | 0.718262516 | PLCL1 |
| 2 | 87,000,000 | 87,150,000 | 1161 | 528 | 0.166842563 | PLCL1 |
| 2 | 87,075,000 | 87,225,000 | 1162 | 320 | -0.096677555 | PLCL1 |
| 2 | 87,150,000 | 87,300,000 | 1163 | 369 | 0.180359795 | |
| 2 | 87,225,000 | 87,375,000 | 1164 | 280 | -0.275520053 | |
| 2 | 87,300,000 | 87,450,000 | 1165 | 238 | -0.233124747 | |
| 2 | 87,375,000 | 87,525,000 | 1166 | 570 | 0.876042104 | |
| 2 | 87,450,000 | 87,600,000 | 1167 | 806 | 0.839777155 | |
| 2 | 87,525,000 | 87,675,000 | 1168 | 662 | 0.019566311 | |
| 2 | 87,600,000 | 87,750,000 | 1169 | 600 | -0.080441588 | |
| 2 | 87,675,000 | 87,825,000 | 1170 | 484 | 0.355392619 | |
| 2 | 87,750,000 | 87,900,000 | 1171 | 423 | 0.373925153 | |
| 2 | 87,825,000 | 87,975,000 | 1172 | 594 | -0.275658607 | |
| 2 | 87,900,000 | 88,050,000 | 1173 | 648 | 0.118012883 | |
| 2 | 87,975,000 | 88,125,000 | 1174 | 466 | 0.901755238 | |
| 2 | 88,050,000 | 88,200,000 | 1175 | 341 | 0.815702074 | |
| 2 | 88,125,000 | 88,275,000 | 1176 | 506 | 0.148430178 | SATB2 |
| 2 | 88,200,000 | 88,350,000 | 1177 | 480 | -0.11213351 | SATB2 |
| 2 | 88,275,000 | 88,425,000 | 1178 | 330 | 0.064567737 | SATB2 |
| 2 | 88,350,000 | 88,500,000 | 1179 | 371 | 0.126963076 | SATB2 |
| 2 | 88,425,000 | 88,575,000 | 1180 | 576 | 0.828021328 | SATB2 |
| 2 | 88,500,000 | 88,650,000 | 1181 | 835 | 0.801668082 | |
| 2 | 88,575,000 | 88,725,000 | 1182 | 636 | 0.254186808 | |
| 2 | 88,650,000 | 88,800,000 | 1183 | 238 | -0.768256545 | |
| 2 | 88,725,000 | 88,875,000 | 1184 | 148 | -1.450530197 | FTCDNL1 |
| 2 | 88,800,000 | 88,950,000 | 1185 | 162 | -1.495034616 | C2orf47,C2orf69,FTCDNL1,TYW5 |
| 2 | 88,875,000 | 89,025,000 | 1186 | 164 | -1.280516066 | C2orf47,C2orf69,TYW5 |
| 2 | 88,950,000 | 89,100,000 | 1187 | 341 | -0.850116209 | |
| 2 | 89,025,000 | 89,175,000 | 1188 | 550 | 0.132107814 | ENSBTAG00000024003 |
| 2 | 89,100,000 | 89,250,000 | 1189 | 545 | 1.074581248 | SPATS2L,ENSBTAG00000024003 |
| 2 | 89,175,000 | 89,325,000 | 1190 | 352 | 0.617250462 | SPATS2L |
| 2 | 89,250,000 | 89,400,000 | 1191 | 426 | 0.738218528 | SPATS2L |
| 2 | 89,325,000 | 89,475,000 | 1192 | 531 | 0.956676629 | KCTD18,SPATS2L |
| 2 | 89,400,000 | 89,550,000 | 1193 | 755 | 0.657645862 | AOX1,KCTD18,SGOL2,SPATS2L |
| 2 | 89,475,000 | 89,625,000 | 1194 | 1346 | 0.936676931 | AOX1,SGOL2 |
| 2 | 89,550,000 | 89,700,000 | 1195 | 1519 | 1.202712815 | AOX1,AOX4 |
| 2 | 89,625,000 | 89,775,000 | 1196 | 1407 | 0.38212002 | AOX4 |
| 2 | 89,700,000 | 89,850,000 | 1197 | 1128 | -0.422798582 | AOX4,ENSBTAG00000026812 |
| 2 | 89,775,000 | 89,925,000 | 1198 | 648 | 0.741490482 | BZW1,CLK1,ENSBTAG00000026812 |
| 2 | 89,850,000 | 90,000,000 | 1199 | 437 | -1.001161639 | BZW1,CLK1,NIF3L1,ORC2,PPIL3,ENSBTAG00000026812 |
| 2 | 89,925,000 | 90,075,000 | 1200 | 335 | -1.650712638 | CLK1,FAM126B,NIF3L1,ORC2,PPIL3 |
| 2 | 90,000,000 | 90,150,000 | 1201 | 309 | -0.043631541 | FAM126B,FLIP,NDUFB3,ORC2,ENSBTAG00000012763 |
| 2 | 90,075,000 | 90,225,000 | 1202 | 386 | 0.61319838 | FAM126B,FLIP,NDUFB3,ENSBTAG0000003731,ENSBTAG0000012763 |
| 2 | 90,150,000 | 90,300,000 | 1203 | 609 | 0.207484367 | CASP8,FLIP,ENSBTAG0000003731 |
| 2 | 90,225,000 | 90,375,000 | 1204 | 813 | -0.755782598 | ALS2CR12,CASP8,TRAK2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------------------|
| 2 | 90,300,000 | 90,450,000 | 1205 | 883 | -0.625570501 | ALS2CR12,CASP8,STRADB,TRAK2 |
| 2 | 90,375,000 | 90,525,000 | 1206 | 944 | -0.049859869 | ALS2CR11,STRADB,TRAK2 |
| 2 | 90,450,000 | 90,600,000 | 1207 | 997 | -4.006284628 | ALS2CR11,STRADB,TMEM237 |
| 2 | 90,525,000 | 90,675,000 | 1208 | 636 | -6.432621198 | ALS2,ALS2CR11,TMEM237 |
| 2 | 90,600,000 | 90,750,000 | 1209 | 254 | -3.593354683 | ALS2,TMEM237 |
| 2 | 90,675,000 | 90,825,000 | 1210 | 440 | -2.223897927 | ALS2 |
| 2 | 90,750,000 | 90,900,000 | 1211 | 389 | -1.754061426 | |
| 2 | 90,825,000 | 90,975,000 | 1212 | 294 | -1.019474225 | |
| 2 | 90,900,000 | 91,050,000 | 1213 | 339 | -0.502794033 | FZD7,ENSBTAG00000034192 |
| 2 | 90,975,000 | 91,125,000 | 1214 | 339 | -2.685234748 | FZD7,ENSBTAG00000034192 |
| 2 | 91,050,000 | 91,200,000 | 1215 | 371 | -4.021711697 | SUMO1,ENSBTAG00000034192 |
| 2 | 91,125,000 | 91,275,000 | 1216 | 261 | -2.733572784 | NOP58,SUMO1,ENSBTAG00000034192 |
| 2 | 91,200,000 | 91,350,000 | 1217 | 170 | -1.147841439 | NOP58 |
| 2 | 91,275,000 | 91,425,000 | 1218 | 258 | -3.315034509 | BMPRII |
| 2 | 91,350,000 | 91,500,000 | 1219 | 370 | -4.977516093 | ALS2CR13,BMPRII |
| 2 | 91,425,000 | 91,575,000 | 1220 | 322 | -4.321242128 | ALS2CR13,BMPRII,ICA1L |
| 2 | 91,500,000 | 91,650,000 | 1221 | 325 | -1.016647192 | ALS2CR13,ICA1L,WDR12 |
| 2 | 91,575,000 | 91,725,000 | 1222 | 330 | -0.134312033 | CARF,ICA1L,WDR12 |
| 2 | 91,650,000 | 91,800,000 | 1223 | 372 | 1.306753281 | CARF,NBEAL1 |
| 2 | 91,725,000 | 91,875,000 | 1224 | 435 | 1.178325265 | CARF,NBEAL1 |
| 2 | 91,800,000 | 91,950,000 | 1225 | 241 | -0.272522027 | CYP20A1,NBEAL1 |
| 2 | 91,875,000 | 92,025,000 | 1226 | 169 | -0.710674345 | ABI2,CYP20A1,NBEAL1 |
| 2 | 91,950,000 | 92,100,000 | 1227 | 194 | 0.064054415 | ABI2,RAPH1 |
| 2 | 92,025,000 | 92,175,000 | 1228 | 400 | -0.361136106 | ABI2,RAPH1 |
| 2 | 92,100,000 | 92,250,000 | 1229 | 632 | -3.601998646 | RAPH1 |
| 2 | 92,175,000 | 92,325,000 | 1230 | 768 | -2.809509272 | |
| 2 | 92,250,000 | 92,400,000 | 1231 | 703 | -0.939146711 | CD28 |
| 2 | 92,325,000 | 92,475,000 | 1232 | 582 | -2.949931281 | CD28 |
| 2 | 92,400,000 | 92,550,000 | 1233 | 413 | -4.535633267 | CTLA4 |
| 2 | 92,475,000 | 92,625,000 | 1234 | 256 | -4.578909536 | CTLA4,ICOS |
| 2 | 92,550,000 | 92,700,000 | 1235 | 350 | -3.353443486 | ICOS |
| 2 | 92,625,000 | 92,775,000 | 1236 | 436 | -0.820442965 | |
| 2 | 92,700,000 | 92,850,000 | 1237 | 502 | -1.33959745 | |
| 2 | 92,775,000 | 92,925,000 | 1238 | 675 | -1.804805756 | |
| 2 | 92,850,000 | 93,000,000 | 1239 | 792 | -2.027099036 | ENSBTAG00000040367 |
| 2 | 92,925,000 | 93,075,000 | 1240 | 1022 | -2.04968799 | ENSBTAG00000040367 |
| 2 | 93,000,000 | 93,150,000 | 1241 | 1088 | -1.357789378 | |
| 2 | 93,075,000 | 93,225,000 | 1242 | 849 | -0.244050927 | |
| 2 | 93,150,000 | 93,300,000 | 1243 | 686 | -0.097800568 | |
| 2 | 93,225,000 | 93,375,000 | 1244 | 537 | -0.304773195 | |
| 2 | 93,300,000 | 93,450,000 | 1245 | 598 | -1.079060758 | |
| 2 | 93,375,000 | 93,525,000 | 1246 | 633 | -0.932578372 | |
| 2 | 93,450,000 | 93,600,000 | 1247 | 550 | 0.084563611 | |
| 2 | 93,525,000 | 93,675,000 | 1248 | 683 | -0.107995334 | |
| 2 | 93,600,000 | 93,750,000 | 1249 | 665 | -0.056282607 | ENSBTAG00000046521 |
| 2 | 93,675,000 | 93,825,000 | 1250 | 700 | 1.132018643 | ENSBTAG00000046521 |
| 2 | 93,750,000 | 93,900,000 | 1251 | 979 | 1.108290019 | PARD3B |
| 2 | 93,825,000 | 93,975,000 | 1252 | 957 | -0.462944887 | PARD3B |
| 2 | 93,900,000 | 94,050,000 | 1253 | 1017 | -1.817602646 | PARD3B |
| 2 | 93,975,000 | 94,125,000 | 1254 | 835 | -1.112191636 | |
| 2 | 94,050,000 | 94,200,000 | 1255 | 797 | 0.034810877 | |
| 2 | 94,125,000 | 94,275,000 | 1256 | 973 | 0.069406443 | ENSBTAG00000046783 |
| 2 | 94,200,000 | 94,350,000 | 1257 | 877 | -1.080746207 | ENSBTAG00000046783 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 2 | 94,275,000 | 94,425,000 | 1258 | 929 | -1.072749779 | ENSBTAG00000046029 |
| 2 | 94,350,000 | 94,500,000 | 1259 | 777 | -1.21254388 | NRP2,ENSBTAG00000046029 |
| 2 | 94,425,000 | 94,575,000 | 1260 | 624 | -1.7412061 | NRP2 |
| 2 | 94,500,000 | 94,650,000 | 1261 | 721 | -0.875000697 | NRP2 |
| 2 | 94,575,000 | 94,725,000 | 1262 | 727 | -0.077699311 | |
| 2 | 94,650,000 | 94,800,000 | 1263 | 495 | -0.374727295 | INO80D |
| 2 | 94,725,000 | 94,875,000 | 1264 | 366 | -2.943114341 | INO80D |
| 2 | 94,800,000 | 94,950,000 | 1265 | 402 | -2.705223279 | EEF1B,GPR1,INO80D,NDUFS1 |
| 2 | 94,875,000 | 95,025,000 | 1266 | 309 | -0.087537117 | EEF1B,GPR1,NDUFS1 |
| 2 | 94,950,000 | 95,100,000 | 1267 | 335 | 0.97761533 | ZDBF2 |
| 2 | 95,025,000 | 95,175,000 | 1268 | 521 | 0.254074175 | ADAM23,ZDBF2 |
| 2 | 95,100,000 | 95,250,000 | 1269 | 625 | -0.112444669 | ADAM23 |
| 2 | 95,175,000 | 95,325,000 | 1270 | 588 | 0.221496802 | ADAM23 |
| 2 | 95,250,000 | 95,400,000 | 1271 | 607 | 0.534420549 | ADAM23,DYTN |
| 2 | 95,325,000 | 95,475,000 | 1272 | 774 | 0.853507848 | ADAM23,DYTN |
| 2 | 95,400,000 | 95,550,000 | 1273 | 923 | 0.825352608 | DYTN,FASTKD2,MDH1B |
| 2 | 95,475,000 | 95,625,000 | 1274 | 749 | 0.48571494 | FASTKD2,MDH1B |
| 2 | 95,550,000 | 95,700,000 | 1275 | 622 | 0.535331931 | CPO |
| 2 | 95,625,000 | 95,775,000 | 1276 | 653 | 0.366379375 | CPO |
| 2 | 95,700,000 | 95,850,000 | 1277 | 672 | 0.345701342 | CPO,KLF7 |
| 2 | 95,775,000 | 95,925,000 | 1278 | 714 | 0.614144692 | KLF7 |
| 2 | 95,850,000 | 96,000,000 | 1279 | 621 | 0.359933905 | KLF7 |
| 2 | 95,925,000 | 96,075,000 | 1280 | 559 | -0.286900312 | |
| 2 | 96,000,000 | 96,150,000 | 1281 | 634 | -0.159663454 | |
| 2 | 96,075,000 | 96,225,000 | 1282 | 536 | 0.77190424 | |
| 2 | 96,150,000 | 96,300,000 | 1283 | 466 | 0.929697239 | CREB1 |
| 2 | 96,225,000 | 96,375,000 | 1284 | 529 | 0.492700769 | CREB1,METTL21A |
| 2 | 96,300,000 | 96,450,000 | 1285 | 364 | -0.250350455 | CCNYL1,CREB1,METTL21A |
| 2 | 96,375,000 | 96,525,000 | 1286 | 239 | -0.788460502 | CCNYL1,FZD5 |
| 2 | 96,450,000 | 96,600,000 | 1287 | 323 | -0.568549594 | CCNYL1,FZD5 |
| 2 | 96,525,000 | 96,675,000 | 1288 | 401 | -0.008766874 | PLEKHM3 |
| 2 | 96,600,000 | 96,750,000 | 1289 | 666 | 0.66681012 | PLEKHM3 |
| 2 | 96,675,000 | 96,825,000 | 1290 | 906 | 0.860970949 | PLEKHM3,ENSBTAG00000014094 |
| 2 | 96,750,000 | 96,900,000 | 1291 | 1084 | -0.060282426 | C2H2orf80,CRYGB,CRYGC,CRYGD,ENSBTAG00000014094, ENSBTAG00000046832 |
| 2 | 96,825,000 | 96,975,000 | 1292 | 1350 | -0.302559991 | C2H2orf80,CRYGB,CRYGC,CRYGD,IDH1,ENSBTAG0000004 6832 |
| 2 | 96,900,000 | 97,050,000 | 1293 | 1271 | -0.262249882 | IDH1,PIKFYVE |
| 2 | 96,975,000 | 97,125,000 | 1294 | 1038 | 0.08139806 | PIKFYVE,PTH2R |
| 2 | 97,050,000 | 97,200,000 | 1295 | 1285 | 1.12345582 | PIKFYVE,PTH2R |
| 2 | 97,125,000 | 97,275,000 | 1296 | 1478 | 0.845671123 | PTH2R |
| 2 | 97,200,000 | 97,350,000 | 1297 | 1149 | 0.702347969 | |
| 2 | 97,275,000 | 97,425,000 | 1298 | 1071 | 0.923004598 | |
| 2 | 97,350,000 | 97,500,000 | 1299 | 744 | 0.572458157 | |
| 2 | 97,425,000 | 97,575,000 | 1300 | 244 | -1.097354759 | CRYGF |
| 2 | 97,500,000 | 97,650,000 | 1301 | 507 | 0.817022558 | CRYGF |
| 2 | 97,575,000 | 97,725,000 | 1302 | 687 | 1.145537592 | |
| 2 | 97,650,000 | 97,800,000 | 1303 | 569 | 1.122256911 | |
| 2 | 97,725,000 | 97,875,000 | 1304 | 721 | 0.954732076 | MAP-2 |
| 2 | 97,800,000 | 97,950,000 | 1305 | 805 | 0.893242239 | MAP-2 |
| 2 | 97,875,000 | 98,025,000 | 1306 | 806 | 1.002185692 | MAP-2,UNC80 |
| 2 | 97,950,000 | 98,100,000 | 1307 | 838 | 0.691973295 | MAP-2,UNC80 |
| 2 | 98,025,000 | 98,175,000 | 1308 | 855 | 0.475057873 | UNC80 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 2 | 98,100,000 | 98,250,000 | 1309 | 628 | 0.211998306 | UNC80 |
| 2 | 98,175,000 | 98,325,000 | 1310 | 458 | -0.240157228 | KANSL1L,RPE,UNC80 |
| 2 | 98,250,000 | 98,400,000 | 1311 | 571 | 0.486573567 | KANSL1L,RPE,UNC80 |
| 2 | 98,325,000 | 98,475,000 | 1312 | 763 | 0.532893093 | ACADL,KANSL1L |
| 2 | 98,400,000 | 98,550,000 | 1313 | 937 | -0.633415342 | ACADL,MYL1 |
| 2 | 98,475,000 | 98,625,000 | 1314 | 1112 | -1.161758721 | LANCL1,MYL1 |
| 2 | 98,550,000 | 98,700,000 | 1315 | 1343 | -0.34043885 | LANCL1,MYL1 |
| 2 | 98,625,000 | 98,775,000 | 1316 | 1298 | 0.629841887 | CPS1,LANCL1 |
| 2 | 98,700,000 | 98,850,000 | 1317 | 1153 | 0.357598518 | CPS1 |
| 2 | 98,775,000 | 98,925,000 | 1318 | 1214 | -0.187612172 | CPS1 |
| 2 | 98,850,000 | 99,000,000 | 1319 | 1458 | 0.391577346 | CPS1 |
| 2 | 98,925,000 | 99,075,000 | 1320 | 1606 | 0.724498963 | |
| 2 | 99,000,000 | 99,150,000 | 1321 | 1594 | 0.478763274 | |
| 2 | 99,075,000 | 99,225,000 | 1322 | 1553 | 0.150559161 | |
| 2 | 99,150,000 | 99,300,000 | 1323 | 1494 | 0.007905031 | |
| 2 | 99,225,000 | 99,375,000 | 1324 | 1491 | 0.455132254 | |
| 2 | 99,300,000 | 99,450,000 | 1325 | 1804 | 0.717839036 | |
| 2 | 99,375,000 | 99,525,000 | 1326 | 1665 | 0.822412508 | |
| 2 | 99,450,000 | 99,600,000 | 1327 | 932 | -1.443770985 | |
| 2 | 99,525,000 | 99,675,000 | 1328 | 487 | -4.163559851 | ENSBTAG00000012647 |
| 2 | 99,600,000 | 99,750,000 | 1329 | 411 | -0.154549386 | ENSBTAG00000012647,ENSBTAG00000047490 |
| 2 | 99,675,000 | 99,825,000 | 1330 | 411 | -0.135633262 | ENSBTAG00000012647,ENSBTAG00000047490 |
| 2 | 99,750,000 | 99,900,000 | 1331 | 620 | -1.623307474 | ENSBTAG00000012647 |
| 2 | 99,825,000 | 99,975,000 | 1332 | 759 | -1.082881478 | ENSBTAG00000012647 |
| 2 | 99,900,000 | 100,050,000 | 1333 | 449 | 0.431196308 | ENSBTAG00000012647 |
| 2 | 99,975,000 | 100,125,000 | 1334 | 464 | 0.590011135 | ENSBTAG00000012647 |
| 2 | 100,050,000 | 100,200,000 | 1335 | 614 | 0.505164995 | |
| 2 | 100,125,000 | 100,275,000 | 1336 | 654 | 0.359413161 | |
| 2 | 100,200,000 | 100,350,000 | 1337 | 1059 | 0.150160434 | ENSBTAG00000005239 |
| 2 | 100,275,000 | 100,425,000 | 1338 | 1321 | -0.225448942 | ENSBTAG00000005239 |
| 2 | 100,350,000 | 100,500,000 | 1339 | 1014 | -0.562366119 | |
| 2 | 100,425,000 | 100,575,000 | 1340 | 1100 | -0.614879744 | |
| 2 | 100,500,000 | 100,650,000 | 1341 | 1042 | -0.667221249 | |
| 2 | 100,575,000 | 100,725,000 | 1342 | 708 | 0.114695992 | |
| 2 | 100,650,000 | 100,800,000 | 1343 | 1033 | 0.866642769 | |
| 2 | 100,725,000 | 100,875,000 | 1344 | 1224 | 1.144949969 | |
| 2 | 100,800,000 | 100,950,000 | 1345 | 1128 | 1.174471046 | |
| 2 | 100,875,000 | 101,025,000 | 1346 | 1040 | 0.709118824 | |
| 2 | 100,950,000 | 101,100,000 | 1347 | 1373 | 0.267916997 | |
| 2 | 101,025,000 | 101,175,000 | 1348 | 1526 | 0.45397393 | |
| 2 | 101,100,000 | 101,250,000 | 1349 | 1274 | 0.681751483 | |
| 2 | 101,175,000 | 101,325,000 | 1350 | 1271 | 0.999145232 | |
| 2 | 101,250,000 | 101,400,000 | 1351 | 1302 | 1.104392185 | |
| 2 | 101,325,000 | 101,475,000 | 1352 | 893 | 0.840644623 | |
| 2 | 101,400,000 | 101,550,000 | 1353 | 287 | 0.270390406 | IKZF2 |
| 2 | 101,475,000 | 101,625,000 | 1354 | 219 | 0.851406685 | IKZF2 |
| 2 | 101,550,000 | 101,700,000 | 1355 | 379 | 0.194256683 | IKZF2 |
| 2 | 101,625,000 | 101,775,000 | 1356 | 458 | -0.141940406 | IKZF2 |
| 2 | 101,700,000 | 101,850,000 | 1357 | 791 | -0.937229328 | IKZF2 |
| 2 | 101,775,000 | 101,925,000 | 1358 | 1131 | -1.135693283 | SPAG16 |
| 2 | 101,850,000 | 102,000,000 | 1359 | 950 | -1.424533354 | SPAG16 |
| 2 | 101,925,000 | 102,075,000 | 1360 | 587 | -1.387814959 | |
| 2 | 102,000,000 | 102,150,000 | 1361 | 682 | 0.090407956 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|----------------------------------|
| 2 | 102,075,000 | 102,225,000 | 1362 | 726 | 0.318537144 | |
| 2 | 102,150,000 | 102,300,000 | 1363 | 421 | -0.011111856 | |
| 2 | 102,225,000 | 102,375,000 | 1364 | 388 | -0.78275296 | |
| 2 | 102,300,000 | 102,450,000 | 1365 | 902 | 0.197553884 | |
| 2 | 102,375,000 | 102,525,000 | 1366 | 1217 | 0.744073764 | |
| 2 | 102,450,000 | 102,600,000 | 1367 | 1330 | 0.858238593 | |
| 2 | 102,525,000 | 102,675,000 | 1368 | 1159 | 0.8514065 | |
| 2 | 102,600,000 | 102,750,000 | 1369 | 816 | 0.416508836 | |
| 2 | 102,675,000 | 102,825,000 | 1370 | 1064 | 0.650496643 | |
| 2 | 102,750,000 | 102,900,000 | 1371 | 1275 | 0.74188453 | |
| 2 | 102,825,000 | 102,975,000 | 1372 | 1007 | 0.642546613 | VWC2L,ENSBTAG00000048219 |
| 2 | 102,900,000 | 103,050,000 | 1373 | 811 | 0.720321568 | VWC2L,ENSBTAG00000048219 |
| 2 | 102,975,000 | 103,125,000 | 1374 | 871 | 0.706192091 | VWC2L |
| 2 | 103,050,000 | 103,200,000 | 1375 | 1233 | -0.110145832 | VWC2L |
| 2 | 103,125,000 | 103,275,000 | 1376 | 1618 | -0.587105826 | VWC2L |
| 2 | 103,200,000 | 103,350,000 | 1377 | 1149 | -0.420527088 | BARD1 |
| 2 | 103,275,000 | 103,425,000 | 1378 | 732 | 0.425805599 | BARD1 |
| 2 | 103,350,000 | 103,500,000 | 1379 | 920 | 0.293838367 | BARD1 |
| 2 | 103,425,000 | 103,575,000 | 1380 | 1096 | -0.989340867 | ABCA12 |
| 2 | 103,500,000 | 103,650,000 | 1381 | 1044 | -1.232023611 | ABCA12 |
| 2 | 103,575,000 | 103,725,000 | 1382 | 1085 | 0.692646637 | ABCA12 |
| 2 | 103,650,000 | 103,800,000 | 1383 | 1466 | 0.851386662 | ABCA12 |
| 2 | 103,725,000 | 103,875,000 | 1384 | 1540 | 0.808380493 | ATIC |
| 2 | 103,800,000 | 103,950,000 | 1385 | 1065 | 0.393913383 | ATIC, FN1 |
| 2 | 103,875,000 | 104,025,000 | 1386 | 893 | 0.339501519 | FN1 |
| 2 | 103,950,000 | 104,100,000 | 1387 | 801 | 0.35149029 | FN1 |
| 2 | 104,025,000 | 104,175,000 | 1388 | 590 | 0.062577273 | |
| 2 | 104,100,000 | 104,250,000 | 1389 | 601 | 0.418892646 | |
| 2 | 104,175,000 | 104,325,000 | 1390 | 719 | 0.445563283 | |
| 2 | 104,250,000 | 104,400,000 | 1391 | 891 | 0.560372691 | |
| 2 | 104,325,000 | 104,475,000 | 1392 | 880 | 0.938366512 | |
| 2 | 104,400,000 | 104,550,000 | 1393 | 1057 | 1.232745383 | MREG |
| 2 | 104,475,000 | 104,625,000 | 1394 | 1086 | 1.227773941 | MREG,PECR,TMEM169 |
| 2 | 104,550,000 | 104,700,000 | 1395 | 696 | 1.263872818 | MREG,PECR,TMEM169,XRCC5 |
| 2 | 104,625,000 | 104,775,000 | 1396 | 562 | 1.214066277 | PECR,TMEM169,XRCC5 |
| 2 | 104,700,000 | 104,850,000 | 1397 | 846 | 0.165041634 | MARCH4,XRCC5 |
| 2 | 104,775,000 | 104,925,000 | 1398 | 1118 | -0.770373547 | |
| 2 | 104,850,000 | 105,000,000 | 1399 | 961 | -0.460955539 | SHOX |
| 2 | 104,925,000 | 105,075,000 | 1400 | 1055 | 0.790007119 | SHOX |
| 2 | 105,000,000 | 105,150,000 | 1401 | 890 | 0.587420415 | SMARCAL1 |
| 2 | 105,075,000 | 105,225,000 | 1402 | 590 | 0.027151983 | RPL37A,SMARCAL1 |
| 2 | 105,150,000 | 105,300,000 | 1403 | 535 | 0.585955216 | RPL37A,SMARCAL1 |
| 2 | 105,225,000 | 105,375,000 | 1404 | 494 | 0.073954972 | IGFBP2,ENSBTAG00000048210 |
| 2 | 105,300,000 | 105,450,000 | 1405 | 556 | -0.280353647 | IGFBP2,IGFBP5,ENSBTAG00000048210 |
| 2 | 105,375,000 | 105,525,000 | 1406 | 494 | 0.103222719 | IGFBP5,ENSBTAG00000048210 |
| 2 | 105,450,000 | 105,600,000 | 1407 | 491 | 0.59706501 | TNP1 |
| 2 | 105,525,000 | 105,675,000 | 1408 | 680 | 0.617586442 | TNP1 |
| 2 | 105,600,000 | 105,750,000 | 1409 | 951 | 0.324588265 | |
| 2 | 105,675,000 | 105,825,000 | 1410 | 882 | 0.225541325 | |
| 2 | 105,750,000 | 105,900,000 | 1411 | 768 | -0.432419074 | |
| 2 | 105,825,000 | 105,975,000 | 1412 | 634 | -0.735944158 | |
| 2 | 105,900,000 | 106,050,000 | 1413 | 389 | -0.772669462 | |
| 2 | 105,975,000 | 106,125,000 | 1414 | 556 | -1.286705995 | |

04-Mar

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 106,050,000 | 106,200,000 | 1415 | 601 | -0.563467169 | |
| 2 | 106,125,000 | 106,275,000 | 1416 | 513 | -0.792145649 | |
| 2 | 106,200,000 | 106,350,000 | 1417 | 624 | -0.189960356 | |
| 2 | 106,275,000 | 106,425,000 | 1418 | 445 | 0.392247365 | |
| 2 | 106,350,000 | 106,500,000 | 1419 | 304 | 0.912122186 | |
| 2 | 106,425,000 | 106,575,000 | 1420 | 479 | 0.277485132 | |
| 2 | 106,500,000 | 106,650,000 | 1421 | 565 | 0.264591537 | TNS1 |
| 2 | 106,575,000 | 106,725,000 | 1422 | 412 | 0.436926245 | TNS1 |
| 2 | 106,650,000 | 106,800,000 | 1423 | 323 | 0.295960085 | TNS1 |
| 2 | 106,725,000 | 106,875,000 | 1424 | 292 | 0.020226022 | TNS1 |
| 2 | 106,800,000 | 106,950,000 | 1425 | 374 | -0.456705989 | CXCR2,MGC157327 |
| 2 | 106,875,000 | 107,025,000 | 1426 | 448 | -0.659019918 | AAMP,ARPC2,CXCR2,GPBAR1,MGC157327,PNKD,RECS1 |
| 2 | 106,950,000 | 107,100,000 | 1427 | 313 | -0.383280816 | AAMP,ARPC2,GPBAR1,PNKD,RECS1 |
| 2 | 107,025,000 | 107,175,000 | 1428 | 352 | 0.833810271 | CATIP,CTDSP1,PNKD,RECS1,SLC11A1,USP37,VIL1 |
| 2 | 107,100,000 | 107,250,000 | 1429 | 462 | 0.454848161 | CATIP,CTDSP1,SLC11A1,USP37,VIL1 |
| 2 | 107,175,000 | 107,325,000 | 1430 | 588 | 0.218282954 | PLCD4,RQCD1,USP37,ZNF142 |
| 2 | 107,250,000 | 107,400,000 | 1431 | 544 | -0.040415288 | BCS1L,PLCD4,RNF25,RQCD1,STK36,ZNF142 |
| 2 | 107,325,000 | 107,475,000 | 1432 | 367 | -0.631960307 | BCS1L,CYP27A1,RNF25,STK36,TLL4,ZNF142 |
| 2 | 107,400,000 | 107,550,000 | 1433 | 586 | -0.944655202 | CYP27A1,PRKAG3,TLL4,WNT6 |
| 2 | 107,475,000 | 107,625,000 | 1434 | 532 | -0.803630545 | CDK5R2,CYP27A1,PRKAG3,WNT10A,WNT6 |
| 2 | 107,550,000 | 107,700,000 | 1435 | 288 | -0.304313387 | CCDC108,CDK5R2,CRYBA2,FEV,WNT10A,WNT6 |
| 2 | 107,625,000 | 107,775,000 | 1436 | 299 | -0.338108788 | CCDC108,CRYBA2,FEV,IHH,NHEJ1 |
| 2 | 107,700,000 | 107,850,000 | 1437 | 266 | 0.30496168 | C2H2ORF24,CCDC108,IHH,NHEJ1,SLC23A3 |
| 2 | 107,775,000 | 107,925,000 | 1438 | 245 | -0.510199106 | ABCB6,ANKZF1,ATG9A,C2H2ORF24,C2ORF17,GLB1L,NHEJ1,SLC23A3,STK16,TUBA4A,ZFAND2B |
| 2 | 107,850,000 | 108,000,000 | 1439 | 237 | -1.577760805 | ABCB6,ANKZF1,ATG9A,C2ORF17,DNAJB2,GLB1L,PTPRN,RESP18,STK16,TUBA1D,TUBA4A,ZFAND2B |
| 2 | 107,925,000 | 108,075,000 | 1440 | 227 | -0.569737811 | DNAJB2,DNPEP,PTPRN,RESP18,TUBA1D,TUBA4A |
| 2 | 108,000,000 | 108,150,000 | 1441 | 274 | -0.045332841 | DES,DNPEP,SPEG |
| 2 | 108,075,000 | 108,225,000 | 1442 | 338 | -0.503621563 | ASIC4,CHPF,DES,GMPPA,OBSL1,SPEG,TMEM198 |
| 2 | 108,150,000 | 108,300,000 | 1443 | 555 | -0.957155593 | ASIC4,CHPF,GMPPA,INHA,OBSL1,SLC4A3,STK11IP,TMEM198 |
| 2 | 108,225,000 | 108,375,000 | 1444 | 774 | -0.72126993 | INHA,OBSL1,SLC4A3,STK11IP |
| 2 | 108,300,000 | 108,450,000 | 1445 | 897 | -0.112021345 | |
| 2 | 108,375,000 | 108,525,000 | 1446 | 1141 | 0.417607517 | |
| 2 | 108,450,000 | 108,600,000 | 1447 | 902 | 0.515664093 | |
| 2 | 108,525,000 | 108,675,000 | 1448 | 480 | -0.61682769 | |
| 2 | 108,600,000 | 108,750,000 | 1449 | 607 | -0.783325746 | |
| 2 | 108,675,000 | 108,825,000 | 1450 | 862 | 0.409226974 | |
| 2 | 108,750,000 | 108,900,000 | 1451 | 1038 | -0.076990963 | |
| 2 | 108,825,000 | 108,975,000 | 1452 | 1057 | -0.057529272 | |
| 2 | 108,900,000 | 109,050,000 | 1453 | 755 | 0.316248616 | |
| 2 | 108,975,000 | 109,125,000 | 1454 | 543 | -1.612973366 | |
| 2 | 109,050,000 | 109,200,000 | 1455 | 573 | -1.019171987 | |
| 2 | 109,125,000 | 109,275,000 | 1456 | 805 | 0.36654072 | |
| 2 | 109,200,000 | 109,350,000 | 1457 | 1022 | 0.767600721 | |
| 2 | 109,275,000 | 109,425,000 | 1458 | 735 | 1.060701471 | |
| 2 | 109,350,000 | 109,500,000 | 1459 | 852 | 0.743809659 | |
| 2 | 109,425,000 | 109,575,000 | 1460 | 799 | 0.682650452 | |
| 2 | 109,500,000 | 109,650,000 | 1461 | 333 | 0.310621006 | |
| 2 | 109,575,000 | 109,725,000 | 1462 | 481 | -0.320760983 | |
| 2 | 109,650,000 | 109,800,000 | 1463 | 618 | -0.458446045 | |
| 2 | 109,725,000 | 109,875,000 | 1464 | 658 | -0.379402518 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------|
| 2 | 109,800,000 | 109,950,000 | 1465 | 960 | 0.818522656 | |
| 2 | 109,875,000 | 110,025,000 | 1466 | 812 | 1.226565561 | |
| 2 | 109,950,000 | 110,100,000 | 1467 | 479 | 0.860986265 | |
| 2 | 110,025,000 | 110,175,000 | 1468 | 437 | 0.862176964 | |
| 2 | 110,100,000 | 110,250,000 | 1469 | 446 | 0.161556489 | |
| 2 | 110,175,000 | 110,325,000 | 1470 | 454 | -0.142382683 | EPHA4 |
| 2 | 110,250,000 | 110,400,000 | 1471 | 384 | -0.125844292 | EPHA4 |
| 2 | 110,325,000 | 110,475,000 | 1472 | 473 | -0.948538963 | EPHA4 |
| 2 | 110,400,000 | 110,550,000 | 1473 | 440 | -0.310752932 | EPHA4 |
| 2 | 110,475,000 | 110,625,000 | 1474 | 563 | -0.159610336 | |
| 2 | 110,550,000 | 110,700,000 | 1475 | 863 | 0.073162661 | |
| 2 | 110,625,000 | 110,775,000 | 1476 | 1041 | -0.703925826 | |
| 2 | 110,700,000 | 110,850,000 | 1477 | 852 | -1.813598836 | |
| 2 | 110,775,000 | 110,925,000 | 1478 | 718 | -1.422695087 | |
| 2 | 110,850,000 | 111,000,000 | 1479 | 698 | -0.29072245 | |
| 2 | 110,925,000 | 111,075,000 | 1480 | 428 | -0.60870633 | |
| 2 | 111,000,000 | 111,150,000 | 1481 | 435 | -1.119909226 | PAX3 |
| 2 | 111,075,000 | 111,225,000 | 1482 | 502 | 0.570794917 | PAX3 |
| 2 | 111,150,000 | 111,300,000 | 1483 | 490 | 0.810110076 | PAX3 |
| 2 | 111,225,000 | 111,375,000 | 1484 | 400 | 0.113343173 | PAX3 |
| 2 | 111,300,000 | 111,450,000 | 1485 | 693 | 0.163407407 | SGPP2 |
| 2 | 111,375,000 | 111,525,000 | 1486 | 872 | -0.204453862 | FARSB,SGPP2 |
| 2 | 111,450,000 | 111,600,000 | 1487 | 756 | -0.465618571 | FARSB,SGPP2,ENSBTAG00000000301 |
| 2 | 111,525,000 | 111,675,000 | 1488 | 733 | 0.338640644 | FARSB,MOGAT1,ENSBTAG00000000301 |
| 2 | 111,600,000 | 111,750,000 | 1489 | 757 | 0.540867109 | MOGAT1,ENSBTAG00000000301 |
| 2 | 111,675,000 | 111,825,000 | 1490 | 670 | 0.391432739 | ACSL3,RPS6 |
| 2 | 111,750,000 | 111,900,000 | 1491 | 355 | -0.023352952 | ACSL3,RPS6 |
| 2 | 111,825,000 | 111,975,000 | 1492 | 564 | 0.570788212 | ACSL3 |
| 2 | 111,900,000 | 112,050,000 | 1493 | 650 | 0.750787092 | KCNE4 |
| 2 | 111,975,000 | 112,125,000 | 1494 | 574 | 0.479862921 | KCNE4 |
| 2 | 112,050,000 | 112,200,000 | 1495 | 593 | 0.620856118 | |
| 2 | 112,125,000 | 112,275,000 | 1496 | 614 | 0.679540448 | |
| 2 | 112,200,000 | 112,350,000 | 1497 | 834 | -1.174794746 | |
| 2 | 112,275,000 | 112,425,000 | 1498 | 752 | -2.043661123 | |
| 2 | 112,350,000 | 112,500,000 | 1499 | 558 | -1.094665679 | |
| 2 | 112,425,000 | 112,575,000 | 1500 | 422 | -0.213271739 | SCG2 |
| 2 | 112,500,000 | 112,650,000 | 1501 | 628 | -0.303568487 | SCG2 |
| 2 | 112,575,000 | 112,725,000 | 1502 | 685 | -0.187458915 | AP1S3 |
| 2 | 112,650,000 | 112,800,000 | 1503 | 597 | 0.847892615 | AP1S3,WDFY1 |
| 2 | 112,725,000 | 112,875,000 | 1504 | 718 | 0.908892696 | AP1S3,MRPL44,SERPINE2,WDFY1 |
| 2 | 112,800,000 | 112,950,000 | 1505 | 689 | 0.834532209 | MRPL44,SERPINE2,WDFY1 |
| 2 | 112,875,000 | 113,025,000 | 1506 | 546 | 0.888065285 | SERPINE2 |
| 2 | 112,950,000 | 113,100,000 | 1507 | 528 | 0.413397909 | |
| 2 | 113,025,000 | 113,175,000 | 1508 | 661 | 0.074950581 | |
| 2 | 113,100,000 | 113,250,000 | 1509 | 691 | -0.811992657 | |
| 2 | 113,175,000 | 113,325,000 | 1510 | 855 | -1.333141824 | FAM124B |
| 2 | 113,250,000 | 113,400,000 | 1511 | 797 | -0.285982068 | CUL3,FAM124B |
| 2 | 113,325,000 | 113,475,000 | 1512 | 570 | -0.131161459 | CUL3 |
| 2 | 113,400,000 | 113,550,000 | 1513 | 582 | -0.354995412 | CUL3 |
| 2 | 113,475,000 | 113,625,000 | 1514 | 1028 | 0.48582693 | CUL3 |
| 2 | 113,550,000 | 113,700,000 | 1515 | 1248 | 0.402335346 | DOCK10 |
| 2 | 113,625,000 | 113,775,000 | 1516 | 1192 | 0.940311698 | DOCK10 |
| 2 | 113,700,000 | 113,850,000 | 1517 | 1071 | 1.200284406 | DOCK10 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------------|
| 2 | 113,775,000 | 113,925,000 | 1518 | 981 | 0.304332781 | DOCK10 |
| 2 | 113,850,000 | 114,000,000 | 1519 | 1172 | 0.581984052 | DOCK10 |
| 2 | 113,925,000 | 114,075,000 | 1520 | 1282 | 0.733715336 | |
| 2 | 114,000,000 | 114,150,000 | 1521 | 1204 | -0.079191878 | |
| 2 | 114,075,000 | 114,225,000 | 1522 | 924 | -0.063244121 | |
| 2 | 114,150,000 | 114,300,000 | 1523 | 837 | 0.867184613 | |
| 2 | 114,225,000 | 114,375,000 | 1524 | 867 | 0.954541928 | NYAP2 |
| 2 | 114,300,000 | 114,450,000 | 1525 | 1056 | 0.935525537 | NYAP2 |
| 2 | 114,375,000 | 114,525,000 | 1526 | 1327 | 0.794840026 | NYAP2 |
| 2 | 114,450,000 | 114,600,000 | 1527 | 942 | 0.607443735 | NYAP2 |
| 2 | 114,525,000 | 114,675,000 | 1528 | 568 | 0.450709852 | NYAP2 |
| 2 | 114,600,000 | 114,750,000 | 1529 | 658 | -0.405628454 | |
| 2 | 114,675,000 | 114,825,000 | 1530 | 623 | -0.190488552 | |
| 2 | 114,750,000 | 114,900,000 | 1531 | 717 | 1.059812777 | |
| 2 | 114,825,000 | 114,975,000 | 1532 | 673 | 0.806065794 | |
| 2 | 114,900,000 | 115,050,000 | 1533 | 507 | -0.073533994 | |
| 2 | 114,975,000 | 115,125,000 | 1534 | 639 | -0.09066403 | |
| 2 | 115,050,000 | 115,200,000 | 1535 | 845 | 0.245484572 | |
| 2 | 115,125,000 | 115,275,000 | 1536 | 690 | 0.114359285 | |
| 2 | 115,200,000 | 115,350,000 | 1537 | 375 | -0.448419388 | |
| 2 | 115,275,000 | 115,425,000 | 1538 | 333 | -0.132697364 | |
| 2 | 115,350,000 | 115,500,000 | 1539 | 377 | 0.263470954 | |
| 2 | 115,425,000 | 115,575,000 | 1540 | 450 | 0.179969686 | |
| 2 | 115,500,000 | 115,650,000 | 1541 | 722 | 0.576715033 | |
| 2 | 115,575,000 | 115,725,000 | 1542 | 766 | 0.712994833 | |
| 2 | 115,650,000 | 115,800,000 | 1543 | 466 | 0.456236627 | IRS1 |
| 2 | 115,725,000 | 115,875,000 | 1544 | 414 | 0.403434091 | IRS1,RHBDD1,ENSBTAG00000023964 |
| 2 | 115,800,000 | 115,950,000 | 1545 | 572 | 0.678007017 | RHBDD1,ENSBTAG00000023964 |
| 2 | 115,875,000 | 116,025,000 | 1546 | 577 | 0.37479146 | COL4A4,RHBDD1 |
| 2 | 115,950,000 | 116,100,000 | 1547 | 788 | -0.055022406 | COL4A4,RHBDD1 |
| 2 | 116,025,000 | 116,175,000 | 1548 | 942 | -0.227484393 | COL4A3,COL4A4 |
| 2 | 116,100,000 | 116,250,000 | 1549 | 495 | -0.40983911 | COL4A3,COL4A4 |
| 2 | 116,175,000 | 116,325,000 | 1550 | 443 | 0.497771452 | C2H2ORF33,COL4A3 |
| 2 | 116,250,000 | 116,400,000 | 1551 | 719 | 0.192388374 | C2H2ORF33,COL4A3,TM4SF20 |
| 2 | 116,325,000 | 116,475,000 | 1552 | 545 | -0.630011633 | AGFG1,C2H2ORF33,TM4SF20 |
| 2 | 116,400,000 | 116,550,000 | 1553 | 295 | -1.902024308 | AGFG1 |
| 2 | 116,475,000 | 116,625,000 | 1554 | 457 | -0.171173472 | AGFG1,SLC19A3 |
| 2 | 116,550,000 | 116,700,000 | 1555 | 662 | 0.320761577 | SLC19A3 |
| 2 | 116,625,000 | 116,775,000 | 1556 | 794 | 0.264501687 | CCL20,SLC19A3 |
| 2 | 116,700,000 | 116,850,000 | 1557 | 802 | -0.351195891 | CCL20,DAW1 |
| 2 | 116,775,000 | 116,925,000 | 1558 | 724 | -0.593728536 | DAW1,SPHKAP |
| 2 | 116,850,000 | 117,000,000 | 1559 | 934 | 0.623665292 | SPHKAP |
| 2 | 116,925,000 | 117,075,000 | 1560 | 878 | 0.317401761 | SPHKAP |
| 2 | 117,000,000 | 117,150,000 | 1561 | 850 | -1.227667186 | |
| 2 | 117,075,000 | 117,225,000 | 1562 | 690 | -0.403777279 | |
| 2 | 117,150,000 | 117,300,000 | 1563 | 488 | 0.957176927 | |
| 2 | 117,225,000 | 117,375,000 | 1564 | 870 | 1.180019104 | |
| 2 | 117,300,000 | 117,450,000 | 1565 | 979 | 1.078963344 | |
| 2 | 117,375,000 | 117,525,000 | 1566 | 770 | 0.552622277 | |
| 2 | 117,450,000 | 117,600,000 | 1567 | 830 | -0.003233359 | |
| 2 | 117,525,000 | 117,675,000 | 1568 | 815 | -0.913969036 | |
| 2 | 117,600,000 | 117,750,000 | 1569 | 430 | -1.72572822 | |
| 2 | 117,675,000 | 117,825,000 | 1570 | 224 | 0.120655301 | |

| | | | | | | |
|---|-------------|-------------|------|-----|--------------|---|
| 2 | 117,750,000 | 117,900,000 | 1571 | 504 | 1.09901586 | PID1 |
| 2 | 117,825,000 | 117,975,000 | 1572 | 732 | 1.014443634 | PID1 |
| 2 | 117,900,000 | 118,050,000 | 1573 | 667 | 0.727025207 | PID1 |
| 2 | 117,975,000 | 118,125,000 | 1574 | 645 | 0.845394308 | PID1 |
| 2 | 118,050,000 | 118,200,000 | 1575 | 635 | 1.026722859 | DNER,PID1 |
| 2 | 118,125,000 | 118,275,000 | 1576 | 634 | -0.311570873 | DNER |
| 2 | 118,200,000 | 118,350,000 | 1577 | 775 | -0.330132588 | DNER |
| 2 | 118,275,000 | 118,425,000 | 1578 | 835 | 1.258899418 | DNER |
| 2 | 118,350,000 | 118,500,000 | 1579 | 681 | 1.095593941 | DNER |
| 2 | 118,425,000 | 118,575,000 | 1580 | 532 | -0.26380639 | DNER |
| 2 | 118,500,000 | 118,650,000 | 1581 | 336 | -1.982204657 | MGC127538,TRIP12 |
| 2 | 118,575,000 | 118,725,000 | 1582 | 204 | -3.152083542 | MGC127538,TRIP12 |
| 2 | 118,650,000 | 118,800,000 | 1583 | 285 | -0.927340417 | FBXO36,TRIP12 |
| 2 | 118,725,000 | 118,875,000 | 1584 | 536 | 0.592873782 | FBXO36,TRIP12 |
| 2 | 118,800,000 | 118,950,000 | 1585 | 793 | 0.582383285 | FBXO36,SLC16A14,SP140L |
| 2 | 118,875,000 | 119,025,000 | 1586 | 915 | -0.830855581 | FBXO36,SLC16A14,SP140L |
| 2 | 118,950,000 | 119,100,000 | 1587 | 834 | -1.674285438 | SP110,SP140L,ENSBTAG00000007280,ENSBTAG00000047133 |
| 2 | 119,025,000 | 119,175,000 | 1588 | 694 | -1.110212557 | SP110,SP140L,ENSBTAG00000007280,ENSBTAG00000037989,ENSBTAG00000047133 |
| 2 | 119,100,000 | 119,250,000 | 1589 | 930 | 0.03100256 | SP110,SP140L,ENSBTAG00000037989,ENSBTAG00000038710 |
| 2 | 119,175,000 | 119,325,000 | 1590 | 845 | 0.638148672 | SP140L,ENSBTAG00000038710 |
| 2 | 119,250,000 | 119,400,000 | 1591 | 503 | -0.697086254 | CAB39,ENSBTAG00000038710 |
| 2 | 119,325,000 | 119,475,000 | 1592 | 566 | -1.679776272 | CAB39 |
| 2 | 119,400,000 | 119,550,000 | 1593 | 643 | -1.473851391 | CAB39,GPR55,ITM2C |
| 2 | 119,475,000 | 119,625,000 | 1594 | 802 | -2.111035416 | GPR55,ITM2C,SPATA3 |
| 2 | 119,550,000 | 119,700,000 | 1595 | 806 | -1.813733611 | C2orf72,PSMD1,SPATA3 |
| 2 | 119,625,000 | 119,775,000 | 1596 | 604 | -1.872766279 | 5HTR2B,C2orf72,PSMD1,SPATA3 |
| 2 | 119,700,000 | 119,850,000 | 1597 | 632 | -2.596496901 | 5HTR2B,ARMC9,PSMD1 |
| 2 | 119,775,000 | 119,925,000 | 1598 | 592 | -2.163193901 | ARMC9 |
| 2 | 119,850,000 | 120,000,000 | 1599 | 507 | -1.319285688 | ARMC9,B3GNT7 |
| 2 | 119,925,000 | 120,075,000 | 1600 | 471 | -0.094674532 | ARMC9,B3GNT7,NCL,ENSBTAG00000001357 |
| 2 | 120,000,000 | 120,150,000 | 1601 | 551 | -0.441798909 | C2orf57,NCL,NMUR1,ENSBTAG00000001357 |
| 2 | 120,075,000 | 120,225,000 | 1602 | 463 | -1.132659225 | C2orf57,NMUR1 |
| 2 | 120,150,000 | 120,300,000 | 1603 | 194 | -2.748157496 | PDE6D,PTMA,ENSBTAG00000014988 |
| 2 | 120,225,000 | 120,375,000 | 1604 | 242 | -1.742288646 | COPS7B,PDE6D,PTMA,ENSBTAG00000014988 |
| 2 | 120,300,000 | 120,450,000 | 1605 | 281 | -0.095235601 | COPS7B,NPPC,PDE6D |
| 2 | 120,375,000 | 120,525,000 | 1606 | 219 | 0.813965713 | DIS3L2,NPPC |
| 2 | 120,450,000 | 120,600,000 | 1607 | 180 | 0.476463103 | DIS3L2 |
| 2 | 120,525,000 | 120,675,000 | 1608 | 190 | 0.561371205 | DIS3L2 |
| 2 | 120,600,000 | 120,750,000 | 1609 | 240 | 1.07061103 | DIS3L2 |
| 2 | 120,675,000 | 120,825,000 | 1610 | 337 | 1.023452121 | DIS3L2 |
| 2 | 120,750,000 | 120,900,000 | 1611 | 719 | 0.139441054 | DIS3L2,ENSBTAG00000016748,ENSBTAG00000039346 |
| 2 | 120,825,000 | 120,975,000 | 1612 | 785 | 0.131042846 | ECEL1,ENSBTAG00000004519,ENSBTAG00000012363,ENSBTAG00000016748,ENSBTAG00000039346 |
| 2 | 120,900,000 | 121,050,000 | 1613 | 618 | 0.962760474 | CHRND,CHRNG,ECEL1,EIF4E2,ENSBTAG00000004519,ENSBTAG00000012363 |
| 2 | 120,975,000 | 121,125,000 | 1614 | 627 | 0.904355711 | CHRND,CHRNG,EIF4E2,ENSBTAG00000045513 |
| 2 | 121,050,000 | 121,200,000 | 1615 | 445 | 0.781785787 | PHC2,ENSBTAG00000045513 |
| 2 | 121,125,000 | 121,275,000 | 1616 | 316 | 0.802105072 | A3GALT2,PHC2,ZNF362 |
| 2 | 121,200,000 | 121,350,000 | 1617 | 227 | 0.290699772 | A3GALT2,PHC2,TRIM62,ZNF362 |
| 2 | 121,275,000 | 121,425,000 | 1618 | 371 | -0.432151582 | AZIN2,TRIM62 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 121,350,000 | 121,500,000 | 1619 | 461 | 0.036261764 | AK2,AZIN2,TRIM62 |
| 2 | 121,425,000 | 121,575,000 | 1620 | 253 | 0.812100555 | AK2,AZIN2,RNF19B |
| 2 | 121,500,000 | 121,650,000 | 1621 | 187 | 0.838185619 | AK2,FNDC5,HPCA,RNF19B,S100PBP,TMEM54 |
| 2 | 121,575,000 | 121,725,000 | 1622 | 254 | 0.242937482 | FNDC5,HPCA,KIAA1522,RNF19B,S100PBP,TMEM54,YARS |
| 2 | 121,650,000 | 121,800,000 | 1623 | 570 | -1.766606423 | KIAA1522,S100PBP,SYNC,YARS |
| 2 | 121,725,000 | 121,875,000 | 1624 | 705 | -1.274670921 | RBBP4,SYNC,ZBTB8A,ZBTB8OS |
| 2 | 121,800,000 | 121,950,000 | 1625 | 640 | -0.095934962 | RBBP4,SYNC,ZBTB8A,ZBTB8OS |
| 2 | 121,875,000 | 122,025,000 | 1626 | 975 | 0.372158694 | BSDC1,ZBTB8A,ENSBTAG00000046044 |
| 2 | 121,950,000 | 122,100,000 | 1627 | 834 | 0.696048514 | BSDC1,FAM229A,HDAC1,LCK,MARCKSL1,TSSK3,ENSBTAG00000046044 |
| 2 | 122,025,000 | 122,175,000 | 1628 | 445 | 0.295813911 | BSDC1,CCDC28B,DCDC2B,EIF3I,FAM167B,FAM229A,HDAC1,IQCC,LCK,MARCKSL1,MTMR9,TMEM234,TSSK3,ENSBTAG00000027930 |
| 2 | 122,100,000 | 122,250,000 | 1629 | 516 | 0.468027254 | CCDC28B,DCDC2B,EIF3I,FAM167B,IQCC,KHDRBS1,LCK,MTMR9,TMEM234,TMEM39B,ENSBTAG00000027930 |
| 2 | 122,175,000 | 122,325,000 | 1630 | 723 | 0.70377668 | KHDRBS1,TMEM39B |
| 2 | 122,250,000 | 122,400,000 | 1631 | 666 | 1.019405135 | KHDRBS1,PTP4A2 |
| 2 | 122,325,000 | 122,475,000 | 1632 | 436 | 0.928352861 | PTP4A2,SPOCD1 |
| 2 | 122,400,000 | 122,550,000 | 1633 | 424 | 0.276614026 | BAI2,SPOCD1 |
| 2 | 122,475,000 | 122,625,000 | 1634 | 420 | 0.245422189 | BAI2,COL16A1,PEF1 |
| 2 | 122,550,000 | 122,700,000 | 1635 | 374 | 0.766931149 | COL16A1,HCRTR1,PEF1,TINAGL1 |
| 2 | 122,625,000 | 122,775,000 | 1636 | 491 | 0.963457727 | FABP3,HCRTR1,PEF1,TINAGL1,ENSBTAG00000039994 |
| 2 | 122,700,000 | 122,850,000 | 1637 | 611 | 0.698172234 | FABP3,SERINC2,ZCCHC17,ENSBTAG00000039994 |
| 2 | 122,775,000 | 122,925,000 | 1638 | 435 | 0.334490597 | FABP3,SERINC2,SNRNP40,ZCCHC17 |
| 2 | 122,850,000 | 123,000,000 | 1639 | 302 | 0.441681129 | NKAIN1,SNRNP40,ZCCHC17 |
| 2 | 122,925,000 | 123,075,000 | 1640 | 483 | 0.227767891 | NKAIN1,PUM1 |
| 2 | 123,000,000 | 123,150,000 | 1641 | 502 | 0.06649305 | PUM1 |
| 2 | 123,075,000 | 123,225,000 | 1642 | 388 | 0.662644522 | PUM1 |
| 2 | 123,150,000 | 123,300,000 | 1643 | 353 | 0.584119261 | PUM1,SDC3 |
| 2 | 123,225,000 | 123,375,000 | 1644 | 618 | 1.12217324 | LAPTM5,SDC3 |
| 2 | 123,300,000 | 123,450,000 | 1645 | 1054 | 0.774565625 | LAPTM5,MATN1 |
| 2 | 123,375,000 | 123,525,000 | 1646 | 1209 | 0.44009797 | LAPTM5,MATN1 |
| 2 | 123,450,000 | 123,600,000 | 1647 | 1265 | 0.116148812 | |
| 2 | 123,525,000 | 123,675,000 | 1648 | 1097 | 0.308625285 | |
| 2 | 123,600,000 | 123,750,000 | 1649 | 1391 | 0.796156939 | |
| 2 | 123,675,000 | 123,825,000 | 1650 | 1502 | 0.841529261 | |
| 2 | 123,750,000 | 123,900,000 | 1651 | 936 | 1.043377769 | |
| 2 | 123,825,000 | 123,975,000 | 1652 | 892 | 0.83930523 | |
| 2 | 123,900,000 | 124,050,000 | 1653 | 1032 | 1.07244954 | |
| 2 | 123,975,000 | 124,125,000 | 1654 | 828 | 0.517445041 | |
| 2 | 124,050,000 | 124,200,000 | 1655 | 567 | -0.185906341 | |
| 2 | 124,125,000 | 124,275,000 | 1656 | 541 | 0.016565793 | |
| 2 | 124,200,000 | 124,350,000 | 1657 | 911 | -0.694024793 | |
| 2 | 124,275,000 | 124,425,000 | 1658 | 1011 | -0.231594261 | |
| 2 | 124,350,000 | 124,500,000 | 1659 | 694 | 0.780982431 | |
| 2 | 124,425,000 | 124,575,000 | 1660 | 626 | -1.287188008 | |
| 2 | 124,500,000 | 124,650,000 | 1661 | 620 | -1.576629518 | |
| 2 | 124,575,000 | 124,725,000 | 1662 | 632 | 0.198490373 | |
| 2 | 124,650,000 | 124,800,000 | 1663 | 595 | 0.602113053 | |
| 2 | 124,725,000 | 124,875,000 | 1664 | 588 | 0.381807123 | PTPRU |
| 2 | 124,800,000 | 124,950,000 | 1665 | 565 | -0.247057364 | MECR,PTPRU |
| 2 | 124,875,000 | 125,025,000 | 1666 | 379 | -0.402939375 | EPB41,MECR,PTPRU,SFRS4,TMEM200B |
| 2 | 124,950,000 | 125,100,000 | 1667 | 388 | 0.975760754 | EPB41,SFRS4,TMEM200B |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 125,025,000 | 125,175,000 | 1668 | 718 | 1.072079326 | EPB41 |
| 2 | 125,100,000 | 125,250,000 | 1669 | 778 | 0.563395301 | EPB41,OPRD1 |
| 2 | 125,175,000 | 125,325,000 | 1670 | 499 | 0.434417209 | OPRD1,YTHDF2 |
| 2 | 125,250,000 | 125,400,000 | 1671 | 377 | 1.088631075 | GMEB1,OPRD1,TAF12,YTHDF2 |
| 2 | 125,325,000 | 125,475,000 | 1672 | 349 | 1.159749033 | GMEB1,RAB42,RCC1,TAF12,TRNAU1AP,ENSBTAG0000004 8228 |
| 2 | 125,400,000 | 125,550,000 | 1673 | 300 | 1.201960403 | PHACTR4,RAB42,RCC1,TAF12,TRNAU1AP,ENSBTAG00000 048228 |
| 2 | 125,475,000 | 125,625,000 | 1674 | 299 | 0.783411086 | PHACTR4,RCC1,ENSBTAG00000003676 |
| 2 | 125,550,000 | 125,700,000 | 1675 | 415 | 0.725848853 | MED18,PHACTR4,SESN2,ENSBTAG00000003676 |
| 2 | 125,625,000 | 125,775,000 | 1676 | 488 | 1.028226632 | ATPIF1,DNAJC8,MED18,SESN2 |
| 2 | 125,700,000 | 125,850,000 | 1677 | 599 | 0.657486345 | ATPIF1,DNAJC8,PTAFR,SESN2,ENSBTAG00000009937 |
| 2 | 125,775,000 | 125,925,000 | 1678 | 648 | -0.128866317 | EYA3,PTAFR,ENSBTAG00000009937 |
| 2 | 125,850,000 | 126,000,000 | 1679 | 795 | 0.139705931 | EYA3,SMPDL3B,XKR8 |
| 2 | 125,925,000 | 126,075,000 | 1680 | 1017 | -0.260589734 | EYA3,RPA2,SMPDL3B,THEMIS2,XKR8 |
| 2 | 126,000,000 | 126,150,000 | 1681 | 911 | -1.74344239 | PPP1R8,RPA2,SMPDL3B,STX12,THEMIS2,ENSBTAG000000 03867 |
| 2 | 126,075,000 | 126,225,000 | 1682 | 623 | -2.26688876 | FAM76A,PPP1R8,STX12,ENSBTAG00000003867 |
| 2 | 126,150,000 | 126,300,000 | 1683 | 451 | 0.53142693 | FAM76A,FGR,IFI6,STX12 |
| 2 | 126,225,000 | 126,375,000 | 1684 | 301 | 0.305488852 | AHDC1,FGR,IFI6 |
| 2 | 126,300,000 | 126,450,000 | 1685 | 158 | -0.244995875 | AHDC1,WASF2 |
| 2 | 126,375,000 | 126,525,000 | 1686 | 171 | 0.029041025 | CD164L2,GPR3,MAP3K6,SYTL1,WASF2 |
| 2 | 126,450,000 | 126,600,000 | 1687 | 261 | 0.106804698 | CD164L2,GPR3,MAP3K6,SYTL1,TMEM222,WASF2 |
| 2 | 126,525,000 | 126,675,000 | 1688 | 347 | -0.122271391 | SYTL1,TMEM222 |
| 2 | 126,600,000 | 126,750,000 | 1689 | 429 | -1.586606686 | SLC9A1 |
| 2 | 126,675,000 | 126,825,000 | 1690 | 472 | -1.500473334 | FAM46B,SLC9A1 |
| 2 | 126,750,000 | 126,900,000 | 1691 | 365 | -0.836344508 | FAM46B,MGC159903,NR0B2,NUDC |
| 2 | 126,825,000 | 126,975,000 | 1692 | 331 | -1.603498136 | GPATCH3,GPN2,MGC159903,NR0B2,NUDC,SFN,ZDHHC18 |
| 2 | 126,900,000 | 127,050,000 | 1693 | 363 | -0.506595455 | ARID1A,GPATCH3,GPN2,PIGV,SFN,ZDHHC18 |
| 2 | 126,975,000 | 127,125,000 | 1694 | 354 | 0.673637351 | ARID1A,PIGV |
| 2 | 127,050,000 | 127,200,000 | 1695 | 424 | 1.378160465 | ARID1A,RPS6KA1 |
| 2 | 127,125,000 | 127,275,000 | 1696 | 465 | 1.179901479 | DHDDS,RPS6KA1,ENSBTAG00000038104 |
| 2 | 127,200,000 | 127,350,000 | 1697 | 438 | -0.18945157 | DHDDS,RPS6KA1,ENSBTAG00000038104,ENSBTAG000000 40497 |
| 2 | 127,275,000 | 127,425,000 | 1698 | 425 | -2.394503158 | AIM1L,CD52,DHDDS,UBXN11,ZNF683,ENSBTAG0000004 497 |
| 2 | 127,350,000 | 127,500,000 | 1699 | 425 | -2.337818577 | AIM1L,CATSPER4,CD52,CEP85,SH3BGRL3,UBXN11,ZNF683 ,ENSBTAG00000039276 |
| 2 | 127,425,000 | 127,575,000 | 1700 | 351 | 0.032784801 | CATSPER4,CEP85,FAM110D,PDIK1L,SH3BGRL3,UBXN11,Z NF593,ENSBTAG00000019399,ENSBTAG00000039276,ENS BTAG00000047148 |
| 2 | 127,500,000 | 127,650,000 | 1701 | 478 | -0.199809119 | EXTL1,FAM110D,PDIK1L,SLC30A2,TRIM63,ZNF593,ENSBTA G00000019399,ENSBTAG00000047148 |
| 2 | 127,575,000 | 127,725,000 | 1702 | 601 | 0.331208676 | EXTL1,PAFAH2,SLC30A2,TRIM63 |
| 2 | 127,650,000 | 127,800,000 | 1703 | 470 | 0.78471668 | EXTL1,PAFAH2,STMN1 |
| 2 | 127,725,000 | 127,875,000 | 1704 | 437 | -0.137926914 | AUNIP,MTFR1L,PAQR7,SEPN1,STMN1 |
| 2 | 127,800,000 | 127,950,000 | 1705 | 742 | 0.819478806 | AUNIP,MAN1C1,MTFR1L,PAQR7,SEPN1 |
| 2 | 127,875,000 | 128,025,000 | 1706 | 905 | 1.040977309 | MAN1C1 |
| 2 | 127,950,000 | 128,100,000 | 1707 | 666 | 0.367769608 | LDLRAP1,MAN1C1 |
| 2 | 128,025,000 | 128,175,000 | 1708 | 470 | 0.026071666 | LDLRAP1,TMEM57 |
| 2 | 128,100,000 | 128,250,000 | 1709 | 432 | 0.057539782 | LDLRAP1,TMEM57,ENSBTAG00000001297 |
| 2 | 128,175,000 | 128,325,000 | 1710 | 627 | 0.250375388 | RSRP1,SYF2,TMEM50A,TMEM57,ENSBTAG00000001297 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 128,250,000 | 128,400,000 | 1711 | 779 | -0.297269513 | RSRP1,SYF2,TMEM50A,ENSBTAG00000001297 |
| 2 | 128,325,000 | 128,475,000 | 1712 | 658 | -0.509179115 | SYF2 |
| 2 | 128,400,000 | 128,550,000 | 1713 | 479 | 0.249199919 | |
| 2 | 128,475,000 | 128,625,000 | 1714 | 551 | 0.685607689 | |
| 2 | 128,550,000 | 128,700,000 | 1715 | 730 | 0.26200728 | RUNX3 |
| 2 | 128,625,000 | 128,775,000 | 1716 | 575 | 0.064949879 | CLIC4,RUNX3 |
| 2 | 128,700,000 | 128,850,000 | 1717 | 643 | 0.714782404 | CLIC4,SRRM1 |
| 2 | 128,775,000 | 128,925,000 | 1718 | 939 | 0.541476717 | CLIC4,NCMAP,SRRM1 |
| 2 | 128,850,000 | 129,000,000 | 1719 | 906 | 0.227795489 | NCMAP,RCAN3,SRRM1 |
| 2 | 128,925,000 | 129,075,000 | 1720 | 711 | 0.260262951 | NCMAP,NIPAL3,RCAN3 |
| 2 | 129,000,000 | 129,150,000 | 1721 | 849 | 0.729715085 | NIPAL3,RCAN3,STPG1 |
| 2 | 129,075,000 | 129,225,000 | 1722 | 1155 | 0.763956655 | GRHL3,NIPAL3,STPG1 |
| 2 | 129,150,000 | 129,300,000 | 1723 | 1054 | 0.79055975 | GRHL3,STPG1 |
| 2 | 129,225,000 | 129,375,000 | 1724 | 1236 | 0.846052437 | IFNLR1,IL22RA1 |
| 2 | 129,300,000 | 129,450,000 | 1725 | 1477 | 0.859357606 | IFNLR1,IL22RA1,MYOM3 |
| 2 | 129,375,000 | 129,525,000 | 1726 | 1116 | 0.810890981 | FUSIP1,IL22RA1,MYOM3 |
| 2 | 129,450,000 | 129,600,000 | 1727 | 758 | 0.779537558 | CNR2,FUSIP1,PNRC2 |
| 2 | 129,525,000 | 129,675,000 | 1728 | 617 | 0.290331666 | CNR2,FUCA1,FUSIP1,PNRC2 |
| 2 | 129,600,000 | 129,750,000 | 1729 | 436 | -1.425018253 | CNR2,FUCA1,GALE,HMGCL,LYPLA2,MGC159500,TCEB3,ENSBTAG00000047467 |
| 2 | 129,675,000 | 129,825,000 | 1730 | 440 | 0.03225045 | FUCA1,GALE,HMGCL,LYPLA2,MGC159500,RPL11,TCEB3,ENSBTAG00000047467 |
| 2 | 129,750,000 | 129,900,000 | 1731 | 506 | 0.724129604 | ID3,RPL11,TCEB3 |
| 2 | 129,825,000 | 129,975,000 | 1732 | 571 | 0.813884986 | ASAP3,E2F2,ID3 |
| 2 | 129,900,000 | 130,050,000 | 1733 | 549 | 1.005205325 | ASAP3,E2F2,TCEA3 |
| 2 | 129,975,000 | 130,125,000 | 1734 | 414 | 1.113797873 | ASAP3,HNRNPR,TCEA3,ZNF436 |
| 2 | 130,050,000 | 130,200,000 | 1735 | 509 | 0.974004005 | HNRNPR,TCEA3,ZNF436 |
| 2 | 130,125,000 | 130,275,000 | 1736 | 554 | 0.585004071 | HNRNPR,HTR1D |
| 2 | 130,200,000 | 130,350,000 | 1737 | 398 | 0.542362419 | HTR1D |
| 2 | 130,275,000 | 130,425,000 | 1738 | 294 | 0.564231318 | KDM1A,LUZP1 |
| 2 | 130,350,000 | 130,500,000 | 1739 | 511 | 0.418849663 | EPHB2,KDM1A,LACTBL1,LUZP1 |
| 2 | 130,425,000 | 130,575,000 | 1740 | 1092 | 0.997266853 | EPHB2,KDM1A,LACTBL1 |
| 2 | 130,500,000 | 130,650,000 | 1741 | 1416 | 0.608543245 | EPHB2 |
| 2 | 130,575,000 | 130,725,000 | 1742 | 938 | -0.175007434 | |
| 2 | 130,650,000 | 130,800,000 | 1743 | 771 | -0.094722671 | C1QA,C1QB,C1QC,ENSBTAG00000011195 |
| 2 | 130,725,000 | 130,875,000 | 1744 | 1201 | -1.096807316 | C1QA,C1QB,C1QC,EPHA8,ENSBTAG00000011195 |
| 2 | 130,800,000 | 130,950,000 | 1745 | 1203 | -1.12277204 | EPHA8,ZBTB40 |
| 2 | 130,875,000 | 131,025,000 | 1746 | 967 | -0.001696703 | ZBTB40 |
| 2 | 130,950,000 | 131,100,000 | 1747 | 1035 | 0.508765687 | |
| 2 | 131,025,000 | 131,175,000 | 1748 | 1099 | 0.609030903 | |
| 2 | 131,100,000 | 131,250,000 | 1749 | 913 | 0.680598847 | |
| 2 | 131,175,000 | 131,325,000 | 1750 | 815 | 0.828100248 | WNT4 |
| 2 | 131,250,000 | 131,400,000 | 1751 | 712 | 0.749414064 | CDC42,WNT4 |
| 2 | 131,325,000 | 131,475,000 | 1752 | 791 | -0.636530369 | CDC42,CELA3B,ENSBTAG00000030269,ENSBTAG00000040602 |
| 2 | 131,400,000 | 131,550,000 | 1753 | 937 | -1.21170459 | CELA3B,HSPG2,ENSBTAG00000030269,ENSBTAG00000040602 |
| 2 | 131,475,000 | 131,625,000 | 1754 | 640 | -0.649796861 | HSPG2,LDLRAD2,USP48 |
| 2 | 131,550,000 | 131,700,000 | 1755 | 559 | -0.78176162 | HSPG2,LDLRAD2,USP48 |
| 2 | 131,625,000 | 131,775,000 | 1756 | 1030 | -0.904581666 | RAP1GAP,USP48 |
| 2 | 131,700,000 | 131,850,000 | 1757 | 1254 | -1.114899774 | ALPL,RAP1GAP |
| 2 | 131,775,000 | 131,925,000 | 1758 | 1316 | -0.968141621 | ALPL,RAP1GAP |
| 2 | 131,850,000 | 132,000,000 | 1759 | 1207 | -0.261783559 | ALPL,ECE1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 131,925,000 | 132,075,000 | 1760 | 656 | 0.103257857 | ECE1 |
| 2 | 132,000,000 | 132,150,000 | 1761 | 282 | 0.449704041 | ECE1,EIF4G3 |
| 2 | 132,075,000 | 132,225,000 | 1762 | 349 | 0.917830902 | EIF4G3 |
| 2 | 132,150,000 | 132,300,000 | 1763 | 551 | 0.840777615 | EIF4G3 |
| 2 | 132,225,000 | 132,375,000 | 1764 | 553 | 0.958015466 | EIF4G3 |
| 2 | 132,300,000 | 132,450,000 | 1765 | 407 | 1.086031234 | EIF4G3 |
| 2 | 132,375,000 | 132,525,000 | 1766 | 309 | 0.948740291 | EIF4G3,HP1BP3,SH2D5 |
| 2 | 132,450,000 | 132,600,000 | 1767 | 562 | -0.091382525 | DDOST,EIF4G3,HP1BP3,KIF17,SH2D5 |
| 2 | 132,525,000 | 132,675,000 | 1768 | 882 | -0.212948441 | CDA,DDOST,KIF17,PINK1,SH2D5 |
| 2 | 132,600,000 | 132,750,000 | 1769 | 868 | -0.985426578 | CDA,DDOST,FAM43B,MUL1,PINK1 |
| 2 | 132,675,000 | 132,825,000 | 1770 | 633 | -2.062293061 | CAMK2N1,FAM43B,MUL1 |
| 2 | 132,750,000 | 132,900,000 | 1771 | 394 | -0.622973714 | CAMK2N1,VWA5B1 |
| 2 | 132,825,000 | 132,975,000 | 1772 | 698 | 0.575724595 | VWA5B1 |
| 2 | 132,900,000 | 133,050,000 | 1773 | 674 | 0.385775185 | VWA5B1 |
| 2 | 132,975,000 | 133,125,000 | 1774 | 464 | -1.01537066 | PLA2G2C,PLA2G2F,UBXN10 |
| 2 | 133,050,000 | 133,200,000 | 1775 | 1238 | 0.344907971 | PLA2G2C,PLA2G2D3,PLA2G2D4,PLA2G2F,UBXN10 |
| 2 | 133,125,000 | 133,275,000 | 1776 | 1704 | 0.287493062 | PLA2G2A,PLA2G2D3,PLA2G2D4,PLA2G5 |
| 2 | 133,200,000 | 133,350,000 | 1777 | 1961 | 0.067077718 | PLA2G2A,PLA2G5,ENSBTAG00000013039 |
| 2 | 133,275,000 | 133,425,000 | 1778 | 1919 | 0.394662177 | OTUD3,PLA2G2A,PLA2G2E,ENSBTAG00000013039 |
| 2 | 133,350,000 | 133,500,000 | 1779 | 1483 | 0.573203219 | OTUD3,PLA2G2E,RNF186 |
| 2 | 133,425,000 | 133,575,000 | 1780 | 1392 | 0.673254219 | RNF186,TMCO4 |
| 2 | 133,500,000 | 133,650,000 | 1781 | 1007 | 1.05206453 | HTR6,TMCO4,ENSBTAG00000005140 |
| 2 | 133,575,000 | 133,725,000 | 1782 | 559 | 0.811428016 | HTR6,TMCO4,ENSBTAG00000005140 |
| 2 | 133,650,000 | 133,800,000 | 1783 | 479 | 0.365026872 | CAPZB |
| 2 | 133,725,000 | 133,875,000 | 1784 | 555 | 0.454772057 | CAPZB |
| 2 | 133,800,000 | 133,950,000 | 1785 | 840 | 0.144979338 | CAPZB,PQLC2 |
| 2 | 133,875,000 | 134,025,000 | 1786 | 907 | -0.064654079 | AKR7A2,CAPZB,EMC1,MRTO4,PQLC2,ENSBTAG000000026758 |
| 2 | 133,950,000 | 134,100,000 | 1787 | 535 | 0.120819732 | AKR7A2,EMC1,MRTO4,UBR4,ENSBTAG000000026758 |
| 2 | 134,025,000 | 134,175,000 | 1788 | 427 | 0.684113615 | UBR4 |
| 2 | 134,100,000 | 134,250,000 | 1789 | 762 | 0.459199064 | UBR4 |
| 2 | 134,175,000 | 134,325,000 | 1790 | 1031 | -0.320830582 | UBR4,ENSBTAG000000030340 |
| 2 | 134,250,000 | 134,400,000 | 1791 | 915 | -1.164612461 | ALDH4A1,TAS1R2,ENSBTAG000000030340 |
| 2 | 134,325,000 | 134,475,000 | 1792 | 1029 | 0.28047664 | ALDH4A1,TAS1R2,ENSBTAG000000030340 |
| 2 | 134,400,000 | 134,550,000 | 1793 | 986 | 0.745105673 | PAX7,TAS1R2 |
| 2 | 134,475,000 | 134,625,000 | 1794 | 780 | 0.046646643 | PAX7 |
| 2 | 134,550,000 | 134,700,000 | 1795 | 1188 | 0.249958564 | PAX7 |
| 2 | 134,625,000 | 134,775,000 | 1796 | 1310 | 0.650069773 | |
| 2 | 134,700,000 | 134,850,000 | 1797 | 1054 | -0.20215888 | KLHDC7A |
| 2 | 134,775,000 | 134,925,000 | 1798 | 1502 | 0.360203998 | IGSF21,KLHDC7A |
| 2 | 134,850,000 | 135,000,000 | 1799 | 1809 | 0.865230047 | IGSF21 |
| 2 | 134,925,000 | 135,075,000 | 1800 | 1338 | 0.364435207 | |
| 2 | 135,000,000 | 135,150,000 | 1801 | 989 | -0.283521474 | |
| 2 | 135,075,000 | 135,225,000 | 1802 | 1323 | 0.300216263 | |
| 2 | 135,150,000 | 135,300,000 | 1803 | 1356 | -0.052593476 | |
| 2 | 135,225,000 | 135,375,000 | 1804 | 1296 | -0.977613118 | |
| 2 | 135,300,000 | 135,450,000 | 1805 | 1397 | -0.145885638 | ACTL8 |
| 2 | 135,375,000 | 135,525,000 | 1806 | 1219 | 0.814985908 | ACTL8 |
| 2 | 135,450,000 | 135,600,000 | 1807 | 1202 | 0.895817153 | ARHGEF10L |
| 2 | 135,525,000 | 135,675,000 | 1808 | 1257 | 0.812521221 | ARHGEF10L |
| 2 | 135,600,000 | 135,750,000 | 1809 | 1301 | 0.74771257 | ARHGEF10L |
| 2 | 135,675,000 | 135,825,000 | 1810 | 871 | 0.538364373 | PADI6,RCC2 |
| 2 | 135,750,000 | 135,900,000 | 1811 | 837 | 0.229736803 | PADI3,PADI4,PADI6,RCC2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 135,825,000 | 135,975,000 | 1812 | 1021 | -0.197378249 | PADI1,PADI3,PADI4,PADI6 |
| 2 | 135,900,000 | 136,050,000 | 1813 | 742 | -0.267118683 | PADI1,PADI2,PADI3 |
| 2 | 135,975,000 | 136,125,000 | 1814 | 806 | 0.517501911 | PADI2 |
| 2 | 136,050,000 | 136,200,000 | 1815 | 1090 | 0.942848887 | ATP13A2,CROCC,MFAP2,PADI2,SDHB |
| 2 | 136,125,000 | 136,275,000 | 1816 | 1128 | 0.684407779 | ATP13A2,CROCC,MFAP2,NECAP2,SDHB |
| 2 | 136,200,000 | 136,350,000 | 1817 | 911 | 0.527941622 | CROCC,NECAP2,SPATA21,SZRD1,ENSBTAG00000047837 |
| 2 | 136,275,000 | 136,425,000 | 1818 | 819 | -0.804263412 | FBXO42,SPATA21,SZRD1,ENSBTAG00000047837 |
| 2 | 136,350,000 | 136,500,000 | 1819 | 668 | -1.267126429 | ARHGEF19,FBXO42,RSG1,ENSBTAG00000047837 |
| 2 | 136,425,000 | 136,575,000 | 1820 | 591 | 0.760694193 | ARHGEF19,EPHA2,FBXO42,RSG1 |
| 2 | 136,500,000 | 136,650,000 | 1821 | 465 | 0.449667348 | C2H1orf64,EPHA2,FAM131C,HSPB7,ENSBTAG00000034674 |
| 2 | 136,575,000 | 136,725,000 | 1822 | 455 | -0.845117746 | C2H1orf64,FAM131C,HSPB7,ENSBTAG00000034674 |
| 2 | 136,650,000 | 136,800,000 | 1823 | 808 | 0.07675973 | C2H1orf64 |
| 2 | 136,725,000 | 136,875,000 | 1824 | 585 | 0.385188051 | |
| 2 | 136,800,000 | 136,950,000 | 1825 | 144 | -0.119489843 | |
| 2 | 136,875,000 | 137,025,000 | 1826 | 174 | 0.294946143 | |
| 2 | 136,950,000 | 137,060,424 | 1827 | 223 | 0.166292178 | |
| 3 | 0 | 150,000 | 1 | 1241 | 0.870029016 | ENSBTAG00000003249,ENSBTAG00000047047 |
| 3 | 75,000 | 225,000 | 2 | 1505 | 0.580821343 | ENSBTAG00000000584,ENSBTAG00000003249 |
| 3 | 150,000 | 300,000 | 3 | 1523 | 0.462440377 | TBX19,ENSBTAG00000000584 |
| 3 | 225,000 | 375,000 | 4 | 1373 | 0.759768792 | SFT2D2,TBX19 |
| 3 | 300,000 | 450,000 | 5 | 1084 | 0.92712574 | SFT2D2,TIPRL |
| 3 | 375,000 | 525,000 | 6 | 648 | 0.346243553 | TIPRL |
| 3 | 450,000 | 600,000 | 7 | 521 | -0.911605405 | GPR161,IQWD1,TIPRL,ENSBTAG00000047162 |
| 3 | 525,000 | 675,000 | 8 | 516 | -1.171427745 | GPR161,IQWD1,ENSBTAG00000047162 |
| 3 | 600,000 | 750,000 | 9 | 349 | -1.295664172 | IQWD1 |
| 3 | 675,000 | 825,000 | 10 | 343 | -0.098057981 | IQWD1,MPC2 |
| 3 | 750,000 | 900,000 | 11 | 536 | 0.822749966 | ADCY10,IQWD1,MPC2 |
| 3 | 825,000 | 975,000 | 12 | 873 | 0.025709732 | ADCY10,MPZL1 |
| 3 | 900,000 | 1,050,000 | 13 | 848 | -1.654266658 | ADCY10,MPZL1 |
| 3 | 975,000 | 1,125,000 | 14 | 627 | -1.787099609 | MPZL1,RCSD1 |
| 3 | 1,050,000 | 1,200,000 | 15 | 747 | -0.536104004 | CREG1,RCSD1 |
| 3 | 1,125,000 | 1,275,000 | 16 | 1234 | 0.185323067 | CD247,CREG1,RCSD1 |
| 3 | 1,200,000 | 1,350,000 | 17 | 1302 | 0.583407306 | CD247,CREG1,POU2F1 |
| 3 | 1,275,000 | 1,425,000 | 18 | 910 | 0.683834184 | CD247,POU2F1 |
| 3 | 1,350,000 | 1,500,000 | 19 | 845 | -0.232316056 | POU2F1 |
| 3 | 1,425,000 | 1,575,000 | 20 | 804 | -0.134164029 | |
| 3 | 1,500,000 | 1,650,000 | 21 | 864 | 0.977784873 | |
| 3 | 1,575,000 | 1,725,000 | 22 | 1217 | 0.985245321 | DUSP27 |
| 3 | 1,650,000 | 1,800,000 | 23 | 1328 | 0.955324969 | DUSP27,GPA33 |
| 3 | 1,725,000 | 1,875,000 | 24 | 1327 | 0.840142242 | GPA33 |
| 3 | 1,800,000 | 1,950,000 | 25 | 953 | 0.823471906 | MAEL |
| 3 | 1,875,000 | 2,025,000 | 26 | 408 | 0.890534578 | ILDR2,MAEL |
| 3 | 1,950,000 | 2,100,000 | 27 | 853 | 0.053326113 | ILDR2,TADA1 |
| 3 | 2,025,000 | 2,175,000 | 28 | 1257 | 0.492768662 | POGK,TADA1 |
| 3 | 2,100,000 | 2,250,000 | 29 | 923 | 0.500373941 | POGK,TADA1 |
| 3 | 2,175,000 | 2,325,000 | 30 | 881 | 0.577227544 | |
| 3 | 2,250,000 | 2,400,000 | 31 | 1292 | 1.185799492 | ENSBTAG00000022504 |
| 3 | 2,325,000 | 2,475,000 | 32 | 1108 | 0.842600407 | ENSBTAG00000022504 |
| 3 | 2,400,000 | 2,550,000 | 33 | 1049 | 0.401037605 | |
| 3 | 2,475,000 | 2,625,000 | 34 | 1168 | 0.310183847 | |
| 3 | 2,550,000 | 2,700,000 | 35 | 1429 | -0.131422298 | ENSBTAG00000022954 |
| 3 | 2,625,000 | 2,775,000 | 36 | 1567 | 0.040467793 | ENSBTAG00000022954 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|--------------------------|
| 3 | 2,700,000 | 2,850,000 | 37 | 973 | -0.035375041 | |
| 3 | 2,775,000 | 2,925,000 | 38 | 894 | 0.59329484 | FAM78B |
| 3 | 2,850,000 | 3,000,000 | 39 | 1054 | 0.772290287 | FAM78B |
| 3 | 2,925,000 | 3,075,000 | 40 | 1165 | -0.052524891 | UCK2 |
| 3 | 3,000,000 | 3,150,000 | 41 | 939 | -0.136836582 | UCK2 |
| 3 | 3,075,000 | 3,225,000 | 42 | 792 | 0.479111012 | TMCO1,UCK2 |
| 3 | 3,150,000 | 3,300,000 | 43 | 994 | -0.089350907 | ALDH9A1,MGST3,TMCO1 |
| 3 | 3,225,000 | 3,375,000 | 44 | 1227 | -0.399023682 | ALDH9A1,MGST3 |
| 3 | 3,300,000 | 3,450,000 | 45 | 1121 | 0.095636744 | LRRC52,MGST3 |
| 3 | 3,375,000 | 3,525,000 | 46 | 804 | -0.280689494 | LRRC52 |
| 3 | 3,450,000 | 3,600,000 | 47 | 986 | -0.804770797 | RXRG |
| 3 | 3,525,000 | 3,675,000 | 48 | 825 | -0.666317852 | RXRG |
| 3 | 3,600,000 | 3,750,000 | 49 | 786 | 0.555738781 | LMX1A,RXRG |
| 3 | 3,675,000 | 3,825,000 | 50 | 945 | 0.995131899 | LMX1A |
| 3 | 3,750,000 | 3,900,000 | 51 | 922 | 1.394973148 | LMX1A |
| 3 | 3,825,000 | 3,975,000 | 52 | 666 | 1.329824052 | LMX1A |
| 3 | 3,900,000 | 4,050,000 | 53 | 555 | 0.725773931 | |
| 3 | 3,975,000 | 4,125,000 | 54 | 1138 | 0.894444038 | |
| 3 | 4,050,000 | 4,200,000 | 55 | 1199 | 0.846101687 | |
| 3 | 4,125,000 | 4,275,000 | 56 | 678 | 0.535912077 | PBX1 |
| 3 | 4,200,000 | 4,350,000 | 57 | 480 | -0.165759966 | PBX1 |
| 3 | 4,275,000 | 4,425,000 | 58 | 515 | 0.326956448 | PBX1 |
| 3 | 4,350,000 | 4,500,000 | 59 | 621 | 0.705865164 | PBX1 |
| 3 | 4,425,000 | 4,575,000 | 60 | 644 | 0.536696846 | PBX1 |
| 3 | 4,500,000 | 4,650,000 | 61 | 848 | 0.52242297 | PBX1 |
| 3 | 4,575,000 | 4,725,000 | 62 | 869 | 0.648092093 | |
| 3 | 4,650,000 | 4,800,000 | 63 | 796 | 0.742771947 | |
| 3 | 4,725,000 | 4,875,000 | 64 | 973 | -0.096407161 | |
| 3 | 4,800,000 | 4,950,000 | 65 | 794 | -1.119758757 | |
| 3 | 4,875,000 | 5,025,000 | 66 | 894 | 0.251310537 | |
| 3 | 4,950,000 | 5,100,000 | 67 | 1089 | 0.863625332 | |
| 3 | 5,025,000 | 5,175,000 | 68 | 936 | 0.756035186 | |
| 3 | 5,100,000 | 5,250,000 | 69 | 919 | -0.209763868 | |
| 3 | 5,175,000 | 5,325,000 | 70 | 1152 | 0.339282256 | |
| 3 | 5,250,000 | 5,400,000 | 71 | 1293 | 0.278479806 | ENSBTAG00000045987 |
| 3 | 5,325,000 | 5,475,000 | 72 | 1094 | -0.537570509 | GNG11,ENSBTAG00000045987 |
| 3 | 5,400,000 | 5,550,000 | 73 | 942 | -0.762913924 | GNG11 |
| 3 | 5,475,000 | 5,625,000 | 74 | 1149 | 0.20683434 | |
| 3 | 5,550,000 | 5,700,000 | 75 | 1080 | 0.530558809 | |
| 3 | 5,625,000 | 5,775,000 | 76 | 580 | 0.053141865 | |
| 3 | 5,700,000 | 5,850,000 | 77 | 577 | 0.161667815 | |
| 3 | 5,775,000 | 5,925,000 | 78 | 859 | 0.242673582 | |
| 3 | 5,850,000 | 6,000,000 | 79 | 775 | -0.045140388 | |
| 3 | 5,925,000 | 6,075,000 | 80 | 704 | -0.348330283 | NUF2 |
| 3 | 6,000,000 | 6,150,000 | 81 | 638 | 0.526964677 | NUF2 |
| 3 | 6,075,000 | 6,225,000 | 82 | 994 | -1.232321529 | |
| 3 | 6,150,000 | 6,300,000 | 83 | 1254 | -1.010551941 | RGS4,RGS5 |
| 3 | 6,225,000 | 6,375,000 | 84 | 1097 | 0.344041056 | RGS4,RGS5 |
| 3 | 6,300,000 | 6,450,000 | 85 | 1075 | -0.1202688 | RGS5 |
| 3 | 6,375,000 | 6,525,000 | 86 | 839 | 0.180149331 | RGS5 |
| 3 | 6,450,000 | 6,600,000 | 87 | 912 | 0.872793698 | C1orf110 |
| 3 | 6,525,000 | 6,675,000 | 88 | 1263 | 0.12382866 | C1orf110,DDR2,HSD17B7 |
| 3 | 6,600,000 | 6,750,000 | 89 | 1129 | -0.219928915 | DDR2,HSD17B7 |

| | | | | | | |
|---|-----------|------------|-----|------|--------------|--|
| 3 | 6,675,000 | 6,825,000 | 90 | 1111 | 0.16852501 | DDR2 |
| 3 | 6,750,000 | 6,900,000 | 91 | 997 | 0.103607551 | DDR2 |
| 3 | 6,825,000 | 6,975,000 | 92 | 552 | -0.142860737 | DDR2,UAP1 |
| 3 | 6,900,000 | 7,050,000 | 93 | 647 | 0.033196767 | UAP1,UHMK1 |
| 3 | 6,975,000 | 7,125,000 | 94 | 996 | 0.120603526 | C3H1orf111,NOS1AP,SH2D1B,UHMK1 |
| 3 | 7,050,000 | 7,200,000 | 95 | 1134 | -0.251148664 | C3H1orf111,NOS1AP,SH2D1B |
| 3 | 7,125,000 | 7,275,000 | 96 | 1139 | 0.262220903 | NOS1AP |
| 3 | 7,200,000 | 7,350,000 | 97 | 954 | 0.408483449 | NOS1AP |
| 3 | 7,275,000 | 7,425,000 | 98 | 1014 | 0.315815613 | NOS1AP |
| 3 | 7,350,000 | 7,500,000 | 99 | 1102 | 0.15454243 | NOS1AP |
| 3 | 7,425,000 | 7,575,000 | 100 | 644 | -0.618786273 | NOS1AP,OLFML2B,ENSBTAG00000046175 |
| 3 | 7,500,000 | 7,650,000 | 101 | 573 | -1.539963673 | ATF6,OLFML2B,ENSBTAG00000046175 |
| 3 | 7,575,000 | 7,725,000 | 102 | 634 | -0.435161293 | ATF6,OLFML2B |
| 3 | 7,650,000 | 7,800,000 | 103 | 493 | 1.093408353 | ATF6 |
| 3 | 7,725,000 | 7,875,000 | 104 | 626 | 0.95988942 | ATF6,DUSP12 |
| 3 | 7,800,000 | 7,950,000 | 105 | 965 | 0.99167903 | ATF6,DUSP12,FCGR2,FCRLA,FCRLB |
| 3 | 7,875,000 | 8,025,000 | 106 | 1099 | 0.731354775 | FCGR2,FCGR3A,FCRLA,FCRLB |
| 3 | 7,950,000 | 8,100,000 | 107 | 767 | -0.499609185 | FCGR2C,FCGR3A,HSPA6 |
| 3 | 8,025,000 | 8,175,000 | 108 | 655 | -1.074101249 | C1ORF192,FCGR2C,HSPA6 |
| 3 | 8,100,000 | 8,250,000 | 109 | 752 | -0.276682963 | C1ORF192,MPZ,PCP4L1,SDHC |
| 3 | 8,175,000 | 8,325,000 | 110 | 691 | 0.301783 | ADAMTS4,APOA2,C1ORF192,FCER1G,MPZ,NDUFS2,NR1I3,PCP4L1,SDHC,TOMM40L |
| 3 | 8,250,000 | 8,400,000 | 111 | 633 | -1.732274413 | ADAMTS4,APOA2,B4GALT3,DEDD,FCER1G,NDUFS2,NIT1,NR1I3,PCP4L1,PFDN2,PPOX,TOMM40L,UFC1,USP21 |
| 3 | 8,325,000 | 8,475,000 | 112 | 550 | -1.579187748 | ADAMTS4,ARHGAP30,B4GALT3,DEDD,KLHDC9,NIT1,PFDN2,PPOX,PVRL4,TSTD1,UFC1,USF1,USP21 |
| 3 | 8,400,000 | 8,550,000 | 113 | 584 | 0.590793032 | ARHGAP30,F11R,ITLN2,KLHDC9,PFDN2,PVRL4,TSTD1,USF1 |
| 3 | 8,475,000 | 8,625,000 | 114 | 1419 | 0.802044526 | F11R,ITLN2,ENSBTAG00000027775 |
| 3 | 8,550,000 | 8,700,000 | 115 | 1912 | 0.193820355 | ITLN2,ENSBTAG00000027775 |
| 3 | 8,625,000 | 8,775,000 | 116 | 1574 | -1.081970987 | ITLN2,ENSBTAG00000027775,ENSBTAG00000040437,ENSBTAG00000046231 |
| 3 | 8,700,000 | 8,850,000 | 117 | 1128 | -0.844508222 | CD244,LY9,ENSBTAG00000040437,ENSBTAG00000046231 |
| 3 | 8,775,000 | 8,925,000 | 118 | 697 | 0.166158447 | CD244,LY9,PIFO,ENSBTAG00000010458 |
| 3 | 8,850,000 | 9,000,000 | 119 | 753 | 0.167942508 | LY9,PIFO,SLAMF7,ENSBTAG00000010458,ENSBTAG00000024849 |
| 3 | 8,925,000 | 9,075,000 | 120 | 777 | 0.022565119 | CD48,PIFO,SLAMF7,ENSBTAG00000024849 |
| 3 | 9,000,000 | 9,150,000 | 121 | 651 | 0.422715763 | CD48,SLAMF1 |
| 3 | 9,075,000 | 9,225,000 | 122 | 480 | 0.893023677 | CD84,SLAMF1 |
| 3 | 9,150,000 | 9,300,000 | 123 | 635 | 0.515725407 | CD84,SLAMF6 |
| 3 | 9,225,000 | 9,375,000 | 124 | 813 | 0.536978733 | CD84,SLAMF6 |
| 3 | 9,300,000 | 9,450,000 | 125 | 615 | 0.670277416 | NHLH1,VANGL2 |
| 3 | 9,375,000 | 9,525,000 | 126 | 377 | 0.026314809 | COPA,NCSTN,NHLH1,PEX19,VANGL2 |
| 3 | 9,450,000 | 9,600,000 | 127 | 272 | -0.805497542 | CASQ1,COPA,NCSTN,PEA15,PEX19,ENSBTAG00000005796 |
| 3 | 9,525,000 | 9,675,000 | 128 | 486 | 0.376451235 | ATP1A2,ATP1A4,CASQ1,PEA15,ENSBTAG00000005796 |
| 3 | 9,600,000 | 9,750,000 | 129 | 834 | 0.662629678 | ATP1A2,ATP1A4,CASQ1,IGSF8,KCNJ10,KCNJ9 |
| 3 | 9,675,000 | 9,825,000 | 130 | 1124 | 0.347412426 | IGSF8,KCNJ10,KCNJ9,PIGM |
| 3 | 9,750,000 | 9,900,000 | 131 | 1204 | -1.366827565 | IGSF9,KCNJ10,PIGM,SLAMF9,TAGLN2 |
| 3 | 9,825,000 | 9,975,000 | 132 | 989 | -2.132048499 | CCDC19,IGSF9,SLAMF8,SLAMF9,TAGLN2,VSIG8 |
| 3 | 9,900,000 | 10,050,000 | 133 | 892 | -1.191382045 | CCDC19,DUSP23,FCRL6,SLAMF8,VSIG8 |
| 3 | 9,975,000 | 10,125,000 | 134 | 1130 | -0.901671181 | CRP,DUSP23,FCRL6,SLAMF8 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 10,050,000 | 10,200,000 | 135 | 1189 | -0.181672116 | CRP |
| 3 | 10,125,000 | 10,275,000 | 136 | 1069 | -0.839244049 | APCS,ENSBTAG00000046656 |
| 3 | 10,200,000 | 10,350,000 | 137 | 1185 | -0.378361463 | APCS,OR10J5,ENSBTAG00000046656 |
| 3 | 10,275,000 | 10,425,000 | 138 | 1335 | 0.215312817 | OR10J1,OR10J5,ENSBTAG00000019618 |
| 3 | 10,350,000 | 10,500,000 | 139 | 1158 | -0.165967279 | OR10J1,ENSBTAG00000019618,ENSBTAG00000020765 |
| 3 | 10,425,000 | 10,575,000 | 140 | 1198 | 0.478666884 | FCER1A,OR10J3,ENSBTAG00000020765 |
| 3 | 10,500,000 | 10,650,000 | 141 | 1505 | 0.887306772 | ACKR1,FCER1A,MPTX,OR10J3,ENSBTAG00000022528 |
| 3 | 10,575,000 | 10,725,000 | 142 | 1282 | 0.753482697 | ACKR1,CADM3,MPTX,ENSBTAG00000022528 |
| 3 | 10,650,000 | 10,800,000 | 143 | 599 | 0.591602747 | CADM3 |
| 3 | 10,725,000 | 10,875,000 | 144 | 176 | 0.635899579 | ENSBTAG00000011511 |
| 3 | 10,800,000 | 10,950,000 | 145 | 258 | 0.733636168 | ENSBTAG00000011511 |
| 3 | 10,875,000 | 11,025,000 | 146 | 807 | 0.735275211 | OR6N2,ENSBTAG00000020838,ENSBTAG00000048292 |
| 3 | 10,950,000 | 11,100,000 | 147 | 1460 | 0.500174266 | OR6K3,OR6K6,OR6N1,OR6N2,ENSBTAG00000020838,ENSBTAG00000038961,ENSBTAG00000048292 |
| 3 | 11,025,000 | 11,175,000 | 148 | 1829 | 0.620210116 | OR6K2,OR6K3,OR6K6,OR6N1,SPTA1,ENSBTAG00000038961 |
| 3 | 11,100,000 | 11,250,000 | 149 | 1805 | 0.348456157 | OR10Z1,OR6K2,SPTA1,ENSBTAG00000039653 |
| 3 | 11,175,000 | 11,325,000 | 150 | 1467 | -0.783015673 | OR10Z1,SPTA1,ENSBTAG00000038362,ENSBTAG00000038669,ENSBTAG00000039653,ENSBTAG00000047541 |
| 3 | 11,250,000 | 11,400,000 | 151 | 1016 | -1.141072342 | OR6P1,OR6Y1,ENSBTAG00000038362,ENSBTAG00000038669,ENSBTAG00000047541 |
| 3 | 11,325,000 | 11,475,000 | 152 | 707 | -0.126701145 | OR10K2,OR6P1,OR6Y1,ENSBTAG00000022556,ENSBTAG00000023247 |
| 3 | 11,400,000 | 11,550,000 | 153 | 635 | 0.01613563 | CD1A,OR10K2,OR10R2,ENSBTAG00000022556,ENSBTAG00000023247 |
| 3 | 11,475,000 | 11,625,000 | 154 | 672 | 0.625915293 | CD1A,OR10R2,ENSBTAG00000037546 |
| 3 | 11,550,000 | 11,700,000 | 155 | 787 | 0.838250028 | OR10T2,ENSBTAG00000037546,ENSBTAG00000037575,ENSBTAG00000037807 |
| 3 | 11,625,000 | 11,775,000 | 156 | 902 | 0.628730941 | CD1B5,CD1E,OR10T2,ENSBTAG00000037575,ENSBTAG00000037807 |
| 3 | 11,700,000 | 11,850,000 | 157 | 1151 | 0.418242607 | CD1B3,CD1B5,CD1E,ENSBTAG00000000963 |
| 3 | 11,775,000 | 11,925,000 | 158 | 1332 | 0.447241906 | CD1B3,ENSBTAG00000000963,ENSBTAG00000026180,ENSBTAG00000038366,ENSBTAG00000038426,ENSBTAG00000039189 |
| 3 | 11,850,000 | 12,000,000 | 159 | 1595 | 0.64355711 | CD1A,CD1B3,ENSBTAG00000026180,ENSBTAG00000038366,ENSBTAG00000038426,ENSBTAG00000039189 |
| 3 | 11,925,000 | 12,075,000 | 160 | 1657 | 0.622650547 | CD1A |
| 3 | 12,000,000 | 12,150,000 | 161 | 1178 | 0.722706209 | CD1D,ENSBTAG00000047988 |
| 3 | 12,075,000 | 12,225,000 | 162 | 699 | 0.945028119 | CD1D,ENSBTAG00000039993,ENSBTAG00000047776,ENSBTAG00000047988 |
| 3 | 12,150,000 | 12,300,000 | 163 | 729 | -1.770260108 | ENSBTAG00000039993,ENSBTAG00000047776 |
| 3 | 12,225,000 | 12,375,000 | 164 | 851 | -1.533105261 | KIRREL |
| 3 | 12,300,000 | 12,450,000 | 165 | 946 | 0.022951032 | KIRREL |
| 3 | 12,375,000 | 12,525,000 | 166 | 1481 | 0.761702979 | FCRL2 |
| 3 | 12,450,000 | 12,600,000 | 167 | 1422 | 0.936612712 | CD5L,FCRL2 |
| 3 | 12,525,000 | 12,675,000 | 168 | 831 | 0.922329925 | CD5L,FCRL1 |
| 3 | 12,600,000 | 12,750,000 | 169 | 1007 | 0.932833351 | FCRL1,FCRL3 |
| 3 | 12,675,000 | 12,825,000 | 170 | 1151 | 0.855255688 | FCRL3 |
| 3 | 12,750,000 | 12,900,000 | 171 | 895 | 0.836585431 | FCRL5 |
| 3 | 12,825,000 | 12,975,000 | 172 | 790 | 0.413389106 | FCRL5 |
| 3 | 12,900,000 | 13,050,000 | 173 | 783 | -0.380478333 | FCRL5 |
| 3 | 12,975,000 | 13,125,000 | 174 | 639 | -0.119303433 | |
| 3 | 13,050,000 | 13,200,000 | 175 | 723 | 0.872135401 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 13,125,000 | 13,275,000 | 176 | 1070 | 1.156764434 | |
| 3 | 13,200,000 | 13,350,000 | 177 | 1006 | 0.69176308 | |
| 3 | 13,275,000 | 13,425,000 | 178 | 697 | -0.055879828 | |
| 3 | 13,350,000 | 13,500,000 | 179 | 987 | 0.954237979 | |
| 3 | 13,425,000 | 13,575,000 | 180 | 1289 | 0.586547931 | |
| 3 | 13,500,000 | 13,650,000 | 181 | 1436 | 0.013615256 | |
| 3 | 13,575,000 | 13,725,000 | 182 | 1607 | -0.264700507 | |
| 3 | 13,650,000 | 13,800,000 | 183 | 1477 | 0.084614527 | ETV3,ETV3L |
| 3 | 13,725,000 | 13,875,000 | 184 | 1581 | 0.988277595 | ETV3,ETV3L |
| 3 | 13,800,000 | 13,950,000 | 185 | 1275 | 0.978571353 | ARHGEF11 |
| 3 | 13,875,000 | 14,025,000 | 186 | 1043 | 0.616100289 | ARHGEF11,C3H1ORF92,NTRK1,PEAR1 |
| 3 | 13,950,000 | 14,100,000 | 187 | 1129 | 0.414677651 | ARHGEF11,C3H1ORF92,INSRR,NTRK1,PEAR1,PRCC,SH2D2A |
| 3 | 14,025,000 | 14,175,000 | 188 | 1012 | 0.485875003 | CRABP2,HDGF,INSRR,ISG20L2,MRPL24,NTRK1,PRCC,RRNA D1,SH2D2A |
| 3 | 14,100,000 | 14,250,000 | 189 | 1183 | 0.727026958 | BCAN,CRABP2,HDGF,ISG20L2,MRPL24,NES,PRCC,RRNAD1 |
| 3 | 14,175,000 | 14,325,000 | 190 | 1514 | -1.450990036 | APOA1BP,BCAN,CRABP2,GPATCH4,HAPLN2,IQGAP3,NES, TTC24 |
| 3 | 14,250,000 | 14,400,000 | 191 | 1221 | -2.407920069 | APOA1BP,GPATCH4,HAPLN2,IQGAP3,MEF2D,TTC24,ENSB TAG00000021649 |
| 3 | 14,325,000 | 14,475,000 | 192 | 879 | -0.852194307 | IQGAP3,MEF2D,ENSBTAG00000021649 |
| 3 | 14,400,000 | 14,550,000 | 193 | 1057 | 0.173054728 | CCT3,MEF2D,RHBG,TSACC |
| 3 | 14,475,000 | 14,625,000 | 194 | 1222 | 0.512971454 | BGLAP,C1orf85,CCT3,PAQR6,PMF1,RHBG,SMG5,TMEM79, TSACC |
| 3 | 14,550,000 | 14,700,000 | 195 | 1333 | 0.887598972 | BGLAP,C1orf85,CCT3,LMNA,PAQR6,PMF1,SEMA4A,SLC25 A44,SMG5,TMEM79 |
| 3 | 14,625,000 | 14,775,000 | 196 | 1074 | 1.087826511 | LAMTOR2,LMNA,MEX3A,PMF1,RAB25,SEMA4A,SLC25A44, UBQLN4 |
| 3 | 14,700,000 | 14,850,000 | 197 | 895 | 0.805307399 | ARHGEF2,LAMTOR2,LMNA,MEX3A,RAB25,SSR2,UBQLN4 |
| 3 | 14,775,000 | 14,925,000 | 198 | 835 | 0.627889221 | ARHGEF2,KIAA0907,RIT1,RXFP4,SSR2,UBQLN4 |
| 3 | 14,850,000 | 15,000,000 | 199 | 617 | 0.729134233 | ARHGEF2,KIAA0907,RIT1,RXFP4,SYT11,YY1AP1 |
| 3 | 14,925,000 | 15,075,000 | 200 | 548 | -0.974490859 | GON4L,SYT11,YY1AP1 |
| 3 | 15,000,000 | 15,150,000 | 201 | 442 | -3.217504483 | DAP3,GON4L,MSTO1 |
| 3 | 15,075,000 | 15,225,000 | 202 | 332 | -3.563315052 | ASH1L,DAP3,GON4L,MSTO1 |
| 3 | 15,150,000 | 15,300,000 | 203 | 317 | -3.143490829 | ASH1L |
| 3 | 15,225,000 | 15,375,000 | 204 | 365 | -4.128932385 | ASH1L,FDPS |
| 3 | 15,300,000 | 15,450,000 | 205 | 455 | -4.012834102 | ASH1L,CLK2,FAM189B,FDPS,GBA,HCN3,PKLR,SCAMP3 |
| 3 | 15,375,000 | 15,525,000 | 206 | 477 | -3.742441427 | CLK2,DPM3,EFNA1,FAM189B,GBA,HCN3,KRTCAP2,MTX1, MUC1,PKLR,SCAMP3,SLC50A1,THBS3,TRIM46 |
| 3 | 15,450,000 | 15,600,000 | 207 | 459 | -2.36072504 | ADAM15,DPM3,EFNA1,EFNA3,EFNA4,GBA,KRTCAP2,MTX1 ,MUC1,SLC50A1,THBS3,TRIM46 |
| 3 | 15,525,000 | 15,675,000 | 208 | 436 | -0.643719411 | ADAM15,CKS1B,DCST1,DCST2,EFNA1,EFNA3,EFNA4,FLAD 1,LENEP,SHC1,ZBTB7B |
| 3 | 15,600,000 | 15,750,000 | 209 | 480 | 0.242366112 | ADAM15,CKS1B,DCST1,DCST2,FLAD1,LENEP,PBXIP1,PMVK ,PYGO2,SHC1,ZBTB7B |
| 3 | 15,675,000 | 15,825,000 | 210 | 536 | 0.757607024 | KCNN3,PBXIP1,PMVK,PYGO2,SHC1 |
| 3 | 15,750,000 | 15,900,000 | 211 | 453 | 0.77222325 | KCNN3 |
| 3 | 15,825,000 | 15,975,000 | 212 | 563 | 0.243872678 | KCNN3 |
| 3 | 15,900,000 | 16,050,000 | 213 | 687 | -0.466903654 | ADAR,KCNN3 |
| 3 | 15,975,000 | 16,125,000 | 214 | 528 | -1.806098462 | ADAR,CHRN2,TDRD10,UBE2Q1 |
| 3 | 16,050,000 | 16,200,000 | 215 | 409 | -2.072298738 | ADAR,CHRN2,IL6R,SHE,TDRD10,UBE2Q1,ENSBTAG00000 045672 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 16,125,000 | 16,275,000 | 216 | 499 | -1.01354232 | ATP8B2,IL6R,SHE,TDRD10,ENSBTAG00000045672 |
| 3 | 16,200,000 | 16,350,000 | 217 | 420 | -0.577702453 | AQP10,ATP8B2,HAX1,IL6R,UBAP2L |
| 3 | 16,275,000 | 16,425,000 | 218 | 252 | -0.854898625 | AQP10,ATP8B2,C3H1orf189,HAX1,NUP210L,TPM3,UBAP2L ,ENSBTAG00000020026 |
| 3 | 16,350,000 | 16,500,000 | 219 | 219 | 0.289100763 | C3H1orf189,NUP210L,TPM3,UBAP2L,ENSBTAG000000200 26 |
| 3 | 16,425,000 | 16,575,000 | 220 | 216 | 1.081675335 | CREB3L4,CRTC2,DENND4B,JTB,NUP210L,RAB13,RPS25,RP S27,SLC39A1 |
| 3 | 16,500,000 | 16,650,000 | 221 | 272 | 1.016331546 | CREB3L4,CRTC2,DENND4B,GATAD2B,JTB,NUP210L,RAB13, RPS25,RPS27,SLC39A1 |
| 3 | 16,575,000 | 16,725,000 | 222 | 436 | 1.075289725 | GATAD2B,INTS3,SLC27A3 |
| 3 | 16,650,000 | 16,800,000 | 223 | 495 | 1.097460522 | ILF2,INTS3,NPR1,SLC27A3,SNAPIN |
| 3 | 16,725,000 | 16,875,000 | 224 | 436 | 1.020754768 | CHTOP,ILF2,NPR1,S100A1,S100A13,S100A14,S100A16,S10 0A2,SNAPIN |
| 3 | 16,800,000 | 16,950,000 | 225 | 362 | 0.707066596 | CHTOP,S100A1,S100A13,S100A14,S100A16,S100A2,S100A 3,S100A4,S100A5 |
| 3 | 16,875,000 | 17,025,000 | 226 | 732 | 0.822928489 | S100A3,S100A4,S100A5,S100A7 |
| 3 | 16,950,000 | 17,100,000 | 227 | 1262 | 0.412864218 | S100A7,ENSBTAG00000033007 |
| 3 | 17,025,000 | 17,175,000 | 228 | 1204 | 0.498528577 | S100A12,S100A8,ENSBTAG00000024437,ENSBTAG000000 33007 |
| 3 | 17,100,000 | 17,250,000 | 229 | 1317 | 0.532618967 | PGLYRP3,S100A12,S100A8,S100A9,ENSBTAG00000024437 |
| 3 | 17,175,000 | 17,325,000 | 230 | 1439 | -0.134782502 | LOR,PGLYRP3,S100A9,ENSBTAG00000039487 |
| 3 | 17,250,000 | 17,400,000 | 231 | 953 | -0.772894565 | LELP1,LOR,ENSBTAG00000039487 |
| 3 | 17,325,000 | 17,475,000 | 232 | 607 | -0.936438047 | LELP1,ENSBTAG00000039487 |
| 3 | 17,400,000 | 17,550,000 | 233 | 586 | -0.579548692 | |
| 3 | 17,475,000 | 17,625,000 | 234 | 928 | 0.637296017 | |
| 3 | 17,550,000 | 17,700,000 | 235 | 1220 | 0.77192288 | |
| 3 | 17,625,000 | 17,775,000 | 236 | 888 | 0.641849457 | |
| 3 | 17,700,000 | 17,850,000 | 237 | 638 | -2.303004283 | SPRR3 |
| 3 | 17,775,000 | 17,925,000 | 238 | 621 | -3.000279592 | IVL,SMCP,SPRR3 |
| 3 | 17,850,000 | 18,000,000 | 239 | 884 | -0.500944228 | IVL,SMCP |
| 3 | 17,925,000 | 18,075,000 | 240 | 1092 | -1.00798417 | KPRP |
| 3 | 18,000,000 | 18,150,000 | 241 | 932 | -1.327292508 | C1orf68,KPRP |
| 3 | 18,075,000 | 18,225,000 | 242 | 909 | -0.483618894 | C1orf68,CRCT1 |
| 3 | 18,150,000 | 18,300,000 | 243 | 635 | -0.971138562 | CRCT1,ENSBTAG00000032446 |
| 3 | 18,225,000 | 18,375,000 | 244 | 986 | 0.085850187 | CRNN,ENSBTAG00000032446 |
| 3 | 18,300,000 | 18,450,000 | 245 | 1136 | 0.566378066 | CRNN,FLG2 |
| 3 | 18,375,000 | 18,525,000 | 246 | 590 | -1.260039013 | FLG2,ENSBTAG00000039357 |
| 3 | 18,450,000 | 18,600,000 | 247 | 604 | -2.650037013 | FLG2,ENSBTAG00000039357 |
| 3 | 18,525,000 | 18,675,000 | 248 | 691 | -1.726252047 | RPTN |
| 3 | 18,600,000 | 18,750,000 | 249 | 556 | -0.042466509 | RPTN,TCHHL1 |
| 3 | 18,675,000 | 18,825,000 | 250 | 630 | 0.579741171 | S100A10,S100A11,TCHHL1 |
| 3 | 18,750,000 | 18,900,000 | 251 | 848 | 0.366330265 | S100A10,S100A11,THEM4 |
| 3 | 18,825,000 | 18,975,000 | 252 | 590 | 0.404680026 | THEM4,THEM5 |
| 3 | 18,900,000 | 19,050,000 | 253 | 310 | -0.064774726 | C2CD4D,LINGO4,RORC,TDRKH,THEM4,THEM5 |
| 3 | 18,975,000 | 19,125,000 | 254 | 317 | 0.684242138 | C2CD4D,LINGO4,MRPL9,OAZ3,RIIAD1,RORC,TDRKH,TNRC 4 |
| 3 | 19,050,000 | 19,200,000 | 255 | 409 | 0.884186005 | MRPL9,OAZ3,RIIAD1,SNX27,TDRKH,TNRC4 |
| 3 | 19,125,000 | 19,275,000 | 256 | 423 | 0.35870336 | SNX27,TUFT1 |
| 3 | 19,200,000 | 19,350,000 | 257 | 431 | 0.267036377 | CGN,SNX27,TUFT1 |
| 3 | 19,275,000 | 19,425,000 | 258 | 334 | 0.342840276 | CGN,POGZ,PSMB4,TUFT1 |
| 3 | 19,350,000 | 19,500,000 | 259 | 284 | 0.424639124 | POGZ,PSMB4,SELENBP1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 19,425,000 | 19,575,000 | 260 | 308 | 0.375352898 | PI4KB,RFX5,SELENBP1,ZNF687 |
| 3 | 19,500,000 | 19,650,000 | 261 | 286 | 0.428087274 | PI4KB,PIP5K1A,PSMD4,RFX5,ZNF687,ENSBTAG00000019709 |
| 3 | 19,575,000 | 19,725,000 | 262 | 305 | 0.80216655 | LYSMD1,PIP5K1A,PSMD4,SCNM1,SEMA6C,TMOD4,TNFAIP8L2,VPS72,ENSBTAG00000019709 |
| 3 | 19,650,000 | 19,800,000 | 263 | 340 | 0.828702397 | BNIPL,C1orf56,CDC42SE1,GABPB2,LYSMD1,MLLT11,PIP5K1A,PRUNE,SCNM1,SEMA6C,TMOD4,TNFAIP8L2,VPS72 |
| 3 | 19,725,000 | 19,875,000 | 264 | 313 | 0.072713239 | ANXA9,BNIPL,C1orf56,CDC42SE1,CERS2,FAM63A,GABPB2,MLLT11,PRUNE,SEMA6C,SETDB1 |
| 3 | 19,800,000 | 19,950,000 | 265 | 391 | 0.160098952 | ANXA9,CERS2,FAM63A,PRUNE,SETDB1 |
| 3 | 19,875,000 | 20,025,000 | 266 | 533 | -0.69841586 | ARNT,CTSK,CTSS,SETDB1 |
| 3 | 19,950,000 | 20,100,000 | 267 | 559 | -0.845556086 | ARNT,CTSK,CTSS,GOLPH3L,HORMAD1 |
| 3 | 20,025,000 | 20,175,000 | 268 | 661 | 0.880835005 | CTSS,ENSA,GOLPH3L,HORMAD1,MCL1 |
| 3 | 20,100,000 | 20,250,000 | 269 | 547 | 0.345757505 | ADAMTSL4,ECM1,ENSA,GOLPH3L,MCL1,TARS2 |
| 3 | 20,175,000 | 20,325,000 | 270 | 298 | -1.192630298 | ADAMTSL4,ECM1,MCL1,RPRD2,TARS2 |
| 3 | 20,250,000 | 20,400,000 | 271 | 201 | -0.375994822 | MRPS21,PRPF3,RPRD2 |
| 3 | 20,325,000 | 20,475,000 | 272 | 126 | -0.245482811 | ANP32E,APH1A,C1orf54,CA14,CIART,MRPS21,PRPF3,RPRD2 |
| 3 | 20,400,000 | 20,550,000 | 273 | 307 | 0.256363506 | ANP32E,APH1A,C1orf54,CA14,CIART,PLEKHO1,VPS45 |
| 3 | 20,475,000 | 20,625,000 | 274 | 512 | 0.219173124 | PLEKHO1,VPS45 |
| 3 | 20,550,000 | 20,700,000 | 275 | 607 | 0.149108115 | OTUD7B,VPS45 |
| 3 | 20,625,000 | 20,775,000 | 276 | 603 | -0.375826045 | BOLA1,H2B,HIST2H2AB,MTMR11,OTUD7B,SF3B4,SV2A,ENSBTAG00000040098 |
| 3 | 20,700,000 | 20,850,000 | 277 | 560 | -1.24856138 | BOLA1,FCGR1A,H2B,HIST2H2AB,HIST2H2AC,MTMR11,OTUD7B,SF3B4,SV2A,ENSBTAG00000032452,ENSBTAG00000032453,ENSBTAG00000032458,ENSBTAG00000040098,ENSBTAG00000046368 |
| 3 | 20,775,000 | 20,925,000 | 278 | 646 | -1.247595614 | FCGR1A,H2B,HIST2H2AC,MGC152321,ENSBTAG00000032452,ENSBTAG00000032453,ENSBTAG00000032458,ENSBTAG00000046368 |
| 3 | 20,850,000 | 21,000,000 | 279 | 879 | 0.10908889 | FCGR1A,MGC152321,ENSBTAG00000022741 |
| 3 | 20,925,000 | 21,075,000 | 280 | 1115 | 0.804627609 | ENSBTAG00000022741 |
| 3 | 21,000,000 | 21,150,000 | 281 | 823 | 0.73018135 | |
| 3 | 21,075,000 | 21,225,000 | 282 | 586 | 0.676983546 | |
| 3 | 21,150,000 | 21,300,000 | 283 | 695 | 0.796494739 | |
| 3 | 21,225,000 | 21,375,000 | 284 | 777 | 0.864793605 | |
| 3 | 21,300,000 | 21,450,000 | 285 | 584 | 0.714353743 | |
| 3 | 21,375,000 | 21,525,000 | 286 | 317 | -0.117942214 | ANKRD34A,HFE2,LIX1L,POLR3GL,TXNIP |
| 3 | 21,450,000 | 21,600,000 | 287 | 277 | 0.029091697 | ANKRD34A,ANKRD35,HFE2,ITGA10,LIX1L,PEX11B,POLR3GL,RBM8A,TXNIP,ENSBTAG00000008370 |
| 3 | 21,525,000 | 21,675,000 | 288 | 310 | -0.105456852 | ANKRD35,ITGA10,LIX1L,NUDT17,PEX11B,PIAS3,POLR3C,RBM8A,RNF115,ENSBTAG00000008370 |
| 3 | 21,600,000 | 21,750,000 | 289 | 406 | -0.55246599 | ANKRD35,NUDT17,PIAS3,POLR3C,RNF115 |
| 3 | 21,675,000 | 21,825,000 | 290 | 403 | -0.972722697 | GPR89,PDZK1,RNF115 |
| 3 | 21,750,000 | 21,900,000 | 291 | 391 | -0.731633262 | GJA8,GPR89,PDZK1 |
| 3 | 21,825,000 | 21,975,000 | 292 | 685 | 0.137955048 | GJA8,GPR89 |
| 3 | 21,900,000 | 22,050,000 | 293 | 1050 | 0.404152506 | GJA5 |
| 3 | 21,975,000 | 22,125,000 | 294 | 749 | 0.199303245 | ACP6,BCL9,GJA5 |
| 3 | 22,050,000 | 22,200,000 | 295 | 451 | -0.150935978 | ACP6,BCL9 |
| 3 | 22,125,000 | 22,275,000 | 296 | 487 | 0.248695358 | |
| 3 | 22,200,000 | 22,350,000 | 297 | 775 | 0.964578701 | ENSBTAG00000046242,ENSBTAG00000046872 |
| 3 | 22,275,000 | 22,425,000 | 298 | 1011 | -0.129641714 | ENSBTAG00000046242,ENSBTAG00000046872 |
| 3 | 22,350,000 | 22,500,000 | 299 | 914 | -2.389216581 | CHD1L,ENSBTAG00000046766 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 22,425,000 | 22,575,000 | 300 | 1001 | -1.497645334 | CHD1L,FMO5,ENSBTAG00000046766 |
| 3 | 22,500,000 | 22,650,000 | 301 | 750 | -0.939078195 | CHD1L,FMO5,PRKAB2 |
| 3 | 22,575,000 | 22,725,000 | 302 | 655 | 0.091024464 | FMO5,PRKAB2 |
| 3 | 22,650,000 | 22,800,000 | 303 | 1132 | 0.340815429 | ENSBTAG00000021104 |
| 3 | 22,725,000 | 22,875,000 | 304 | 1482 | 0.275394927 | ENSBTAG00000021104 |
| 3 | 22,800,000 | 22,950,000 | 305 | 1433 | 0.246359469 | PDE4DIP,ENSBTAG00000017316 |
| 3 | 22,875,000 | 23,025,000 | 306 | 1174 | 0.451221939 | PDE4DIP,ENSBTAG00000017316 |
| 3 | 22,950,000 | 23,100,000 | 307 | 924 | 0.787958057 | PDE4DIP |
| 3 | 23,025,000 | 23,175,000 | 308 | 672 | 0.832488759 | PDE4DIP |
| 3 | 23,100,000 | 23,250,000 | 309 | 441 | 1.089442618 | SEC22B,ENSBTAG00000047910 |
| 3 | 23,175,000 | 23,325,000 | 310 | 537 | 0.968511243 | NOTCH2,SEC22B,ENSBTAG00000047910 |
| 3 | 23,250,000 | 23,400,000 | 311 | 676 | 0.807731907 | NOTCH2 |
| 3 | 23,325,000 | 23,475,000 | 312 | 674 | 0.718261639 | NOTCH2 |
| 3 | 23,400,000 | 23,550,000 | 313 | 891 | 1.019489944 | NOTCH2,ENSBTAG00000006903,ENSBTAG00000046315 |
| 3 | 23,475,000 | 23,625,000 | 314 | 964 | 1.125350053 | NOTCH2,REG4,ENSBTAG00000006903,ENSBTAG00000046315 |
| 3 | 23,550,000 | 23,700,000 | 315 | 938 | -2.11981381 | HMGCS2,PHGDH,REG4,ENSBTAG00000046293 |
| 3 | 23,625,000 | 23,775,000 | 316 | 727 | -2.959032426 | HMGCS2,PHGDH |
| 3 | 23,700,000 | 23,850,000 | 317 | 509 | 0.140815633 | HAO2,HSD3B,PHGDH,ZNF697 |
| 3 | 23,775,000 | 23,925,000 | 318 | 767 | 0.369976958 | HAO2,HSD3B,ZNF697 |
| 3 | 23,850,000 | 24,000,000 | 319 | 1117 | 0.92451024 | HAO2 |
| 3 | 23,925,000 | 24,075,000 | 320 | 1357 | 1.023425777 | |
| 3 | 24,000,000 | 24,150,000 | 321 | 1039 | 0.996980254 | WARS2 |
| 3 | 24,075,000 | 24,225,000 | 322 | 642 | 1.208305738 | WARS2 |
| 3 | 24,150,000 | 24,300,000 | 323 | 655 | 0.590875812 | TBX15,WARS2 |
| 3 | 24,225,000 | 24,375,000 | 324 | 760 | 0.460233594 | TBX15 |
| 3 | 24,300,000 | 24,450,000 | 325 | 790 | 0.080484257 | TBX15 |
| 3 | 24,375,000 | 24,525,000 | 326 | 549 | -1.398236385 | |
| 3 | 24,450,000 | 24,600,000 | 327 | 675 | -0.064104874 | |
| 3 | 24,525,000 | 24,675,000 | 328 | 854 | 0.039757123 | |
| 3 | 24,600,000 | 24,750,000 | 329 | 735 | -1.319290862 | |
| 3 | 24,675,000 | 24,825,000 | 330 | 799 | -0.348024341 | |
| 3 | 24,750,000 | 24,900,000 | 331 | 804 | 1.078738737 | |
| 3 | 24,825,000 | 24,975,000 | 332 | 676 | 1.129136743 | |
| 3 | 24,900,000 | 25,050,000 | 333 | 879 | -1.065884474 | |
| 3 | 24,975,000 | 25,125,000 | 334 | 1146 | -1.937871863 | SPAG17 |
| 3 | 25,050,000 | 25,200,000 | 335 | 915 | -1.367898833 | SPAG17 |
| 3 | 25,125,000 | 25,275,000 | 336 | 605 | -0.274385659 | SPAG17 |
| 3 | 25,200,000 | 25,350,000 | 337 | 559 | 0.67365753 | SPAG17 |
| 3 | 25,275,000 | 25,425,000 | 338 | 983 | 0.29784503 | GDAP2,SPAG17,WDR3 |
| 3 | 25,350,000 | 25,500,000 | 339 | 980 | 0.299271335 | GDAP2,SPAG17,WDR3 |
| 3 | 25,425,000 | 25,575,000 | 340 | 637 | -1.027953072 | GDAP2 |
| 3 | 25,500,000 | 25,650,000 | 341 | 749 | -1.613568891 | |
| 3 | 25,575,000 | 25,725,000 | 342 | 592 | -1.035678643 | FAM46C |
| 3 | 25,650,000 | 25,800,000 | 343 | 366 | -0.110389778 | FAM46C |
| 3 | 25,725,000 | 25,875,000 | 344 | 603 | 1.089707758 | MAN1A2 |
| 3 | 25,800,000 | 25,950,000 | 345 | 1074 | 0.8229073 | MAN1A2 |
| 3 | 25,875,000 | 26,025,000 | 346 | 909 | 0.482289396 | MAN1A2 |
| 3 | 25,950,000 | 26,100,000 | 347 | 738 | 0.869130073 | MAN1A2 |
| 3 | 26,025,000 | 26,175,000 | 348 | 1033 | 0.781952074 | VTCN1 |
| 3 | 26,100,000 | 26,250,000 | 349 | 946 | 0.310432381 | TRIM45,TTF2,VTCN1 |
| 3 | 26,175,000 | 26,325,000 | 350 | 951 | 0.215253764 | CD101,TRIM45,TTF2,VTCN1 |
| 3 | 26,250,000 | 26,400,000 | 351 | 919 | 0.389204728 | CD101,PTGFRN,TTF2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 26,325,000 | 26,475,000 | 352 | 717 | 0.287577197 | CD101,PTGFRN |
| 3 | 26,400,000 | 26,550,000 | 353 | 899 | -0.440927807 | PTGFRN |
| 3 | 26,475,000 | 26,625,000 | 354 | 985 | -0.402148207 | CD2 |
| 3 | 26,550,000 | 26,700,000 | 355 | 806 | -0.306351055 | CD2 |
| 3 | 26,625,000 | 26,775,000 | 356 | 776 | 0.655264711 | IGSF3 |
| 3 | 26,700,000 | 26,850,000 | 357 | 602 | 1.012503407 | CD58,IGSF3 |
| 3 | 26,775,000 | 26,925,000 | 358 | 406 | -0.225405812 | CD58,IGSF3 |
| 3 | 26,850,000 | 27,000,000 | 359 | 804 | 0.149840643 | CD58 |
| 3 | 26,925,000 | 27,075,000 | 360 | 871 | 0.386572755 | ATP1A1 |
| 3 | 27,000,000 | 27,150,000 | 361 | 595 | -0.777139872 | ATP1A1 |
| 3 | 27,075,000 | 27,225,000 | 362 | 612 | -0.99423806 | |
| 3 | 27,150,000 | 27,300,000 | 363 | 836 | 0.442818627 | |
| 3 | 27,225,000 | 27,375,000 | 364 | 968 | 0.48958914 | MAB21L3 |
| 3 | 27,300,000 | 27,450,000 | 365 | 759 | 0.423529379 | MAB21L3,SLC22A15 |
| 3 | 27,375,000 | 27,525,000 | 366 | 641 | 0.531428244 | SLC22A15 |
| 3 | 27,450,000 | 27,600,000 | 367 | 913 | -1.803594725 | NHLH2,SLC22A15 |
| 3 | 27,525,000 | 27,675,000 | 368 | 1173 | -1.199054574 | CASQ2,NHLH2 |
| 3 | 27,600,000 | 27,750,000 | 369 | 1145 | 0.243242719 | CASQ2,VANGL1 |
| 3 | 27,675,000 | 27,825,000 | 370 | 1191 | 0.693302573 | CASQ2,VANGL1 |
| 3 | 27,750,000 | 27,900,000 | 371 | 959 | -1.174646524 | VANGL1 |
| 3 | 27,825,000 | 27,975,000 | 372 | 483 | -3.391408792 | |
| 3 | 27,900,000 | 28,050,000 | 373 | 280 | 0.102210826 | |
| 3 | 27,975,000 | 28,125,000 | 374 | 207 | 1.251451033 | NGF |
| 3 | 28,050,000 | 28,200,000 | 375 | 190 | 1.245704848 | NGF |
| 3 | 28,125,000 | 28,275,000 | 376 | 327 | -1.37450333 | NGF |
| 3 | 28,200,000 | 28,350,000 | 377 | 396 | -1.442861653 | |
| 3 | 28,275,000 | 28,425,000 | 378 | 337 | -0.659532982 | TSHB,TSPAN2 |
| 3 | 28,350,000 | 28,500,000 | 379 | 404 | 0.132976592 | SYCP1,TSHB,TSPAN2 |
| 3 | 28,425,000 | 28,575,000 | 380 | 474 | 0.332487601 | SYCP1,TSPAN2 |
| 3 | 28,500,000 | 28,650,000 | 381 | 456 | 0.30554785 | SYCP1,ENSBTAG00000032057 |
| 3 | 28,575,000 | 28,725,000 | 382 | 362 | 0.434507742 | CSDE1,NRAS,SIKE1,SYCP1,ENSBTAG00000032057 |
| 3 | 28,650,000 | 28,800,000 | 383 | 261 | 0.825439531 | AMPD1,CSDE1,NRAS,SIKE1,ENSBTAG00000045889 |
| 3 | 28,725,000 | 28,875,000 | 384 | 267 | 0.703980301 | AMPD1,BCAS2,DENND2C,NRAS,ENSBTAG00000045889 |
| 3 | 28,800,000 | 28,950,000 | 385 | 357 | -0.206902483 | BCAS2,DENND2C,TRIM33 |
| 3 | 28,875,000 | 29,025,000 | 386 | 544 | 0.204762335 | BCAS2,TRIM33 |
| 3 | 28,950,000 | 29,100,000 | 387 | 454 | 0.521354775 | TRIM33 |
| 3 | 29,025,000 | 29,175,000 | 388 | 737 | -0.98335862 | TRIM33 |
| 3 | 29,100,000 | 29,250,000 | 389 | 1215 | -0.250553251 | |
| 3 | 29,175,000 | 29,325,000 | 390 | 991 | 0.77681701 | |
| 3 | 29,250,000 | 29,400,000 | 391 | 632 | 0.869344196 | SYT6 |
| 3 | 29,325,000 | 29,475,000 | 392 | 366 | 0.774840107 | SYT6 |
| 3 | 29,400,000 | 29,550,000 | 393 | 353 | 0.637627271 | HIPK1,OLFML3,SYT6 |
| 3 | 29,475,000 | 29,625,000 | 394 | 356 | 0.650053697 | AP4B1,DCLRE1B,HIPK1,OLFML3 |
| 3 | 29,550,000 | 29,700,000 | 395 | 492 | 0.689101951 | AP4B1,BCL2L15,DCLRE1B,HIPK1,PTPN22 |
| 3 | 29,625,000 | 29,775,000 | 396 | 601 | 0.819522183 | AP4B1,BCL2L15,PHTF1,PTPN22,RSBN1 |
| 3 | 29,700,000 | 29,850,000 | 397 | 717 | 0.65725216 | MAGI3,PHTF1,PTPN22,RSBN1 |
| 3 | 29,775,000 | 29,925,000 | 398 | 738 | 0.698065202 | MAGI3,PHTF1 |
| 3 | 29,850,000 | 30,000,000 | 399 | 527 | 0.896524865 | MAGI3 |
| 3 | 29,925,000 | 30,075,000 | 400 | 558 | 0.624002919 | MAGI3 |
| 3 | 30,000,000 | 30,150,000 | 401 | 630 | 0.590091788 | MAGI3 |
| 3 | 30,075,000 | 30,225,000 | 402 | 566 | 0.68586327 | MAGI3 |
| 3 | 30,150,000 | 30,300,000 | 403 | 426 | 0.790527002 | |
| 3 | 30,225,000 | 30,375,000 | 404 | 947 | 0.28977004 | LRIG2,ENSBTAG00000027172 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 30,300,000 | 30,450,000 | 405 | 1091 | 0.378822703 | LRIG2,ENSBTAG00000027172 |
| 3 | 30,375,000 | 30,525,000 | 406 | 688 | 0.752509086 | LRIG2 |
| 3 | 30,450,000 | 30,600,000 | 407 | 538 | 0.132031142 | SLC16A1 |
| 3 | 30,525,000 | 30,675,000 | 408 | 448 | -0.633683853 | SLC16A1 |
| 3 | 30,600,000 | 30,750,000 | 409 | 398 | -0.494603732 | |
| 3 | 30,675,000 | 30,825,000 | 410 | 263 | -0.274870941 | CAPZA1,MOV10,PPM1J,RHOC |
| 3 | 30,750,000 | 30,900,000 | 411 | 278 | 0.053497557 | CAPZA1,MOV10,PPM1J,RHOC,ST7L |
| 3 | 30,825,000 | 30,975,000 | 412 | 241 | 0.130846792 | CAPZA1,ST7L,WNT2B |
| 3 | 30,900,000 | 31,050,000 | 413 | 325 | -0.47775949 | CTTNBP2NL,ST7L,WNT2B |
| 3 | 30,975,000 | 31,125,000 | 414 | 896 | -0.045813919 | CTTNBP2NL |
| 3 | 31,050,000 | 31,200,000 | 415 | 953 | -0.138842979 | |
| 3 | 31,125,000 | 31,275,000 | 416 | 667 | -0.022246655 | |
| 3 | 31,200,000 | 31,350,000 | 417 | 574 | 0.640256235 | |
| 3 | 31,275,000 | 31,425,000 | 418 | 743 | 0.93284395 | |
| 3 | 31,350,000 | 31,500,000 | 419 | 817 | 0.983031184 | KCND3 |
| 3 | 31,425,000 | 31,575,000 | 420 | 453 | 0.880987365 | KCND3 |
| 3 | 31,500,000 | 31,650,000 | 421 | 339 | 0.077035158 | KCND3 |
| 3 | 31,575,000 | 31,725,000 | 422 | 443 | -0.42104411 | DDX20,FAM212B,KCND3 |
| 3 | 31,650,000 | 31,800,000 | 423 | 542 | 0.019341867 | DDX20,FAM212B,KCND3,RAP1A |
| 3 | 31,725,000 | 31,875,000 | 424 | 482 | 0.198575536 | FAM212B,RAP1A |
| 3 | 31,800,000 | 31,950,000 | 425 | 385 | 0.337536144 | ADORA3 |
| 3 | 31,875,000 | 32,025,000 | 426 | 452 | 0.713931165 | ADORA3,ATP5F1,WDR77 |
| 3 | 31,950,000 | 32,100,000 | 427 | 1085 | 1.091827455 | ADORA3,ATP5F1,OVGP1,WDR77,ENSBTAG00000034841 |
| 3 | 32,025,000 | 32,175,000 | 428 | 1362 | 0.566760613 | OVGP1,WDR77,ENSBTAG00000023535,ENSBTAG00000034841 |
| 3 | 32,100,000 | 32,250,000 | 429 | 984 | -0.467240304 | CHIA,ENSBTAG00000023535 |
| 3 | 32,175,000 | 32,325,000 | 430 | 682 | -0.88585642 | CHI3L2,CHIA,DENND2D |
| 3 | 32,250,000 | 32,400,000 | 431 | 462 | -1.425348123 | CEPT1,CHI3L2,DENND2D,DRAM2 |
| 3 | 32,325,000 | 32,475,000 | 432 | 400 | -0.874486845 | CEPT1,DENND2D,DRAM2 |
| 3 | 32,400,000 | 32,550,000 | 433 | 402 | -0.03685797 | DRAM2,LRIF1 |
| 3 | 32,475,000 | 32,625,000 | 434 | 448 | 0.161547663 | CD53,LRIF1 |
| 3 | 32,550,000 | 32,700,000 | 435 | 448 | 0.412124497 | CD53 |
| 3 | 32,625,000 | 32,775,000 | 436 | 422 | 0.659814403 | CD53 |
| 3 | 32,700,000 | 32,850,000 | 437 | 357 | -0.305382134 | |
| 3 | 32,775,000 | 32,925,000 | 438 | 305 | -1.045160177 | KCNA3 |
| 3 | 32,850,000 | 33,000,000 | 439 | 283 | -0.797595962 | KCNA2,KCNA3 |
| 3 | 32,925,000 | 33,075,000 | 440 | 303 | -1.242894966 | CYM,KCNA10,KCNA2 |
| 3 | 33,000,000 | 33,150,000 | 441 | 329 | -0.729851737 | CYM,KCNA10,LAMTOR5,PROK1 |
| 3 | 33,075,000 | 33,225,000 | 442 | 263 | -0.298684143 | LAMTOR5,PROK1,RBM15,SLC16A4 |
| 3 | 33,150,000 | 33,300,000 | 443 | 325 | -0.199260203 | RBM15,SLC16A4 |
| 3 | 33,225,000 | 33,375,000 | 444 | 479 | -0.595230878 | KCNC4,SLC6A17 |
| 3 | 33,300,000 | 33,450,000 | 445 | 502 | -1.409027638 | KCNC4,SLC6A17,UBL4B |
| 3 | 33,375,000 | 33,525,000 | 446 | 292 | -2.620348829 | AHCYL1,ALX3,STRIP1,UBL4B |
| 3 | 33,450,000 | 33,600,000 | 447 | 202 | -3.173468454 | AHCYL1,ALX3,STRIP1 |
| 3 | 33,525,000 | 33,675,000 | 448 | 335 | -1.024340325 | AHCYL1,CSF1 |
| 3 | 33,600,000 | 33,750,000 | 449 | 471 | -1.999195773 | CSF1,EPS8L3 |
| 3 | 33,675,000 | 33,825,000 | 450 | 378 | -2.774987944 | EPS8L3,GSTM1,GSTM2,GSTM3 |
| 3 | 33,750,000 | 33,900,000 | 451 | 292 | -0.357843572 | EPS8L3,GSTM1,GSTM2,GSTM3,GSTM4,ENSBTAG00000012692 |
| 3 | 33,825,000 | 33,975,000 | 452 | 370 | 0.292428571 | AMPD2,GNAI3,GNAT2,GSTM2,GSTM4,ENSBTAG00000012692 |
| 3 | 33,900,000 | 34,050,000 | 453 | 338 | 0.758500078 | AMPD2,GNAI3,GNAT2,GPR61 |
| 3 | 33,975,000 | 34,125,000 | 454 | 309 | 0.829945379 | AMIGO1,ATXN7L2,CYB561D1,GNAI3,GPR61,SYPL2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 34,050,000 | 34,200,000 | 455 | 360 | 0.095741878 | AMIGO1,ATXN7L2,CYB561D1,PSMA5,SORT1,SYPL2 |
| 3 | 34,125,000 | 34,275,000 | 456 | 504 | 0.224064452 | CELSR2,MYBPHL,PSMA5,PSRC1,SORT1 |
| 3 | 34,200,000 | 34,350,000 | 457 | 512 | 0.62919755 | CELSR2,KIAA1324,MYBPHL,PSRC1,SARS,SORT1 |
| 3 | 34,275,000 | 34,425,000 | 458 | 366 | 0.137826178 | C1orf194,KIAA1324,SARS,TAF13,TMEM167B |
| 3 | 34,350,000 | 34,500,000 | 459 | 345 | 0.715701248 | C1orf194,KIAA1324,TAF13,TMEM167B,WDR47 |
| 3 | 34,425,000 | 34,575,000 | 460 | 473 | 1.136908859 | CLCC1,GPSM2,TAF13,WDR47 |
| 3 | 34,500,000 | 34,650,000 | 461 | 588 | 0.794105032 | CLCC1,GPSM2,WDR47,ENSBTAG00000007333 |
| 3 | 34,575,000 | 34,725,000 | 462 | 526 | -0.813332007 | GPSM2,STXBP3,ENSBTAG00000007333 |
| 3 | 34,650,000 | 34,800,000 | 463 | 481 | -0.329269202 | FNDC7,PRPF38B,STXBP3,ENSBTAG00000007333 |
| 3 | 34,725,000 | 34,875,000 | 464 | 522 | 1.0446201 | FAM102B,FNDC7,HENMT1,PRPF38B,STXBP3 |
| 3 | 34,800,000 | 34,950,000 | 465 | 629 | 1.036881474 | FAM102B,HENMT1 |
| 3 | 34,875,000 | 35,025,000 | 466 | 945 | 1.118379118 | FAM102B |
| 3 | 34,950,000 | 35,100,000 | 467 | 1363 | 1.305239154 | |
| 3 | 35,025,000 | 35,175,000 | 468 | 1697 | 1.293580659 | SLC25A24 |
| 3 | 35,100,000 | 35,250,000 | 469 | 1750 | 0.81861611 | SLC25A24 |
| 3 | 35,175,000 | 35,325,000 | 470 | 1239 | 0.555984169 | SLC25A24 |
| 3 | 35,250,000 | 35,400,000 | 471 | 771 | -0.443106488 | |
| 3 | 35,325,000 | 35,475,000 | 472 | 867 | -0.467109429 | VAV3 |
| 3 | 35,400,000 | 35,550,000 | 473 | 940 | 0.080366521 | VAV3 |
| 3 | 35,475,000 | 35,625,000 | 474 | 737 | -0.653303415 | VAV3 |
| 3 | 35,550,000 | 35,700,000 | 475 | 791 | -0.016252918 | VAV3 |
| 3 | 35,625,000 | 35,775,000 | 476 | 1081 | -0.175992188 | VAV3 |
| 3 | 35,700,000 | 35,850,000 | 477 | 872 | -0.801104607 | VAV3 |
| 3 | 35,775,000 | 35,925,000 | 478 | 484 | 0.197851751 | VAV3 |
| 3 | 35,850,000 | 36,000,000 | 479 | 546 | -0.991603953 | MGC139448,VAV3 |
| 3 | 35,925,000 | 36,075,000 | 480 | 549 | -1.099157132 | MGC139448 |
| 3 | 36,000,000 | 36,150,000 | 481 | 453 | 0.614418777 | MGC139448 |
| 3 | 36,075,000 | 36,225,000 | 482 | 479 | 0.776264093 | MGC139448 |
| 3 | 36,150,000 | 36,300,000 | 483 | 640 | 1.046785195 | MGC139448 |
| 3 | 36,225,000 | 36,375,000 | 484 | 847 | 0.224959432 | MGC139448 |
| 3 | 36,300,000 | 36,450,000 | 485 | 808 | -0.201572694 | MGC139448,PRMT6 |
| 3 | 36,375,000 | 36,525,000 | 486 | 889 | 0.403698267 | PRMT6 |
| 3 | 36,450,000 | 36,600,000 | 487 | 764 | 0.696148103 | |
| 3 | 36,525,000 | 36,675,000 | 488 | 771 | 1.219818896 | |
| 3 | 36,600,000 | 36,750,000 | 489 | 1002 | 1.068402309 | |
| 3 | 36,675,000 | 36,825,000 | 490 | 778 | 0.564031287 | |
| 3 | 36,750,000 | 36,900,000 | 491 | 1046 | 0.530431952 | |
| 3 | 36,825,000 | 36,975,000 | 492 | 1672 | 0.742770219 | |
| 3 | 36,900,000 | 37,050,000 | 493 | 1487 | 0.917351737 | |
| 3 | 36,975,000 | 37,125,000 | 494 | 869 | 0.935713427 | |
| 3 | 37,050,000 | 37,200,000 | 495 | 964 | 0.050540024 | |
| 3 | 37,125,000 | 37,275,000 | 496 | 1042 | -0.29574916 | |
| 3 | 37,200,000 | 37,350,000 | 497 | 1169 | 0.530817388 | |
| 3 | 37,275,000 | 37,425,000 | 498 | 1478 | 0.461600157 | |
| 3 | 37,350,000 | 37,500,000 | 499 | 1142 | 0.427975593 | |
| 3 | 37,425,000 | 37,575,000 | 500 | 1053 | 0.612270747 | |
| 3 | 37,500,000 | 37,650,000 | 501 | 1366 | 0.40018839 | |
| 3 | 37,575,000 | 37,725,000 | 502 | 1305 | 0.570203303 | |
| 3 | 37,650,000 | 37,800,000 | 503 | 1247 | 1.073487406 | |
| 3 | 37,725,000 | 37,875,000 | 504 | 1276 | 0.999945598 | |
| 3 | 37,800,000 | 37,950,000 | 505 | 1313 | 0.323171672 | |
| 3 | 37,875,000 | 38,025,000 | 506 | 1532 | -0.148284857 | |
| 3 | 37,950,000 | 38,100,000 | 507 | 1618 | -0.717504785 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 38,025,000 | 38,175,000 | 508 | 1265 | -0.636681173 | |
| 3 | 38,100,000 | 38,250,000 | 509 | 807 | -0.165573825 | |
| 3 | 38,175,000 | 38,325,000 | 510 | 993 | -0.985321559 | |
| 3 | 38,250,000 | 38,400,000 | 511 | 1320 | -0.897725876 | |
| 3 | 38,325,000 | 38,475,000 | 512 | 1372 | -0.568179879 | |
| 3 | 38,400,000 | 38,550,000 | 513 | 1268 | -0.020678869 | |
| 3 | 38,475,000 | 38,625,000 | 514 | 1435 | 0.68049932 | |
| 3 | 38,550,000 | 38,700,000 | 515 | 1731 | 1.215849388 | |
| 3 | 38,625,000 | 38,775,000 | 516 | 1517 | 1.122222875 | |
| 3 | 38,700,000 | 38,850,000 | 517 | 1024 | -0.00971101 | |
| 3 | 38,775,000 | 38,925,000 | 518 | 1078 | -0.9502581 | |
| 3 | 38,850,000 | 39,000,000 | 519 | 1001 | -0.790265302 | |
| 3 | 38,925,000 | 39,075,000 | 520 | 841 | 0.436801373 | |
| 3 | 39,000,000 | 39,150,000 | 521 | 829 | 0.391574454 | ENSBTAG00000015180 |
| 3 | 39,075,000 | 39,225,000 | 522 | 580 | -0.021035277 | ENSBTAG00000015180 |
| 3 | 39,150,000 | 39,300,000 | 523 | 750 | 0.236032916 | |
| 3 | 39,225,000 | 39,375,000 | 524 | 957 | 0.178325717 | |
| 3 | 39,300,000 | 39,450,000 | 525 | 939 | 0.468170367 | |
| 3 | 39,375,000 | 39,525,000 | 526 | 910 | 0.937499764 | |
| 3 | 39,450,000 | 39,600,000 | 527 | 1249 | 0.729451378 | |
| 3 | 39,525,000 | 39,675,000 | 528 | 1371 | 0.62291322 | |
| 3 | 39,600,000 | 39,750,000 | 529 | 1225 | 0.58170453 | |
| 3 | 39,675,000 | 39,825,000 | 530 | 865 | 0.493881735 | |
| 3 | 39,750,000 | 39,900,000 | 531 | 575 | 0.94933437 | ENSBTAG00000024288 |
| 3 | 39,825,000 | 39,975,000 | 532 | 627 | 0.794302754 | AMY2B,ENSBTAG00000024288 |
| 3 | 39,900,000 | 40,050,000 | 533 | 465 | 0.279394442 | AMY2B,RNPC3 |
| 3 | 39,975,000 | 40,125,000 | 534 | 648 | 0.098360131 | RNPC3 |
| 3 | 40,050,000 | 40,200,000 | 535 | 1089 | -0.7496162 | |
| 3 | 40,125,000 | 40,275,000 | 536 | 1099 | -0.826560047 | |
| 3 | 40,200,000 | 40,350,000 | 537 | 761 | 0.093251063 | |
| 3 | 40,275,000 | 40,425,000 | 538 | 845 | 0.094722878 | |
| 3 | 40,350,000 | 40,500,000 | 539 | 1021 | 0.193035288 | COL11A1 |
| 3 | 40,425,000 | 40,575,000 | 540 | 876 | -0.313461676 | COL11A1 |
| 3 | 40,500,000 | 40,650,000 | 541 | 835 | -1.199827037 | COL11A1 |
| 3 | 40,575,000 | 40,725,000 | 542 | 984 | -0.224173236 | COL11A1 |
| 3 | 40,650,000 | 40,800,000 | 543 | 865 | 0.341789499 | COL11A1 |
| 3 | 40,725,000 | 40,875,000 | 544 | 629 | 0.379589032 | |
| 3 | 40,800,000 | 40,950,000 | 545 | 620 | -1.096754574 | |
| 3 | 40,875,000 | 41,025,000 | 546 | 934 | -0.591953079 | |
| 3 | 40,950,000 | 41,100,000 | 547 | 1212 | 0.56853294 | |
| 3 | 41,025,000 | 41,175,000 | 548 | 1246 | 0.977269136 | |
| 3 | 41,100,000 | 41,250,000 | 549 | 1743 | 0.753388728 | |
| 3 | 41,175,000 | 41,325,000 | 550 | 1775 | 0.607896552 | |
| 3 | 41,250,000 | 41,400,000 | 551 | 1022 | 0.676950188 | |
| 3 | 41,325,000 | 41,475,000 | 552 | 623 | 0.527088153 | OLFM3 |
| 3 | 41,400,000 | 41,550,000 | 553 | 773 | -0.39441168 | OLFM3 |
| 3 | 41,475,000 | 41,625,000 | 554 | 940 | -2.681671924 | OLFM3 |
| 3 | 41,550,000 | 41,700,000 | 555 | 943 | -4.98451314 | OLFM3 |
| 3 | 41,625,000 | 41,775,000 | 556 | 1073 | -2.138606405 | OLFM3 |
| 3 | 41,700,000 | 41,850,000 | 557 | 1251 | -0.351323905 | |
| 3 | 41,775,000 | 41,925,000 | 558 | 1035 | -1.248086852 | |
| 3 | 41,850,000 | 42,000,000 | 559 | 860 | 0.76858614 | |
| 3 | 41,925,000 | 42,075,000 | 560 | 1320 | 1.222125614 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 3 | 42,000,000 | 42,150,000 | 561 | 1117 | 0.968400181 | |
| 3 | 42,075,000 | 42,225,000 | 562 | 460 | -0.174926597 | S1PR1 |
| 3 | 42,150,000 | 42,300,000 | 563 | 586 | -1.285910049 | S1PR1 |
| 3 | 42,225,000 | 42,375,000 | 564 | 861 | -0.416962761 | |
| 3 | 42,300,000 | 42,450,000 | 565 | 907 | 0.324960615 | DPH5 |
| 3 | 42,375,000 | 42,525,000 | 566 | 877 | 0.642461608 | DPH5,SLC30A7 |
| 3 | 42,450,000 | 42,600,000 | 567 | 861 | 0.719834607 | EXTL2,SLC30A7 |
| 3 | 42,525,000 | 42,675,000 | 568 | 963 | 0.412882489 | EXTL2,SLC30A7 |
| 3 | 42,600,000 | 42,750,000 | 569 | 920 | 0.206941884 | VCAM1 |
| 3 | 42,675,000 | 42,825,000 | 570 | 739 | 0.603068014 | VCAM1 |
| 3 | 42,750,000 | 42,900,000 | 571 | 706 | 0.960659348 | GPR88,VCAM1 |
| 3 | 42,825,000 | 42,975,000 | 572 | 842 | 1.158505867 | CDC14A,GPR88 |
| 3 | 42,900,000 | 43,050,000 | 573 | 866 | 1.299016621 | CDC14A |
| 3 | 42,975,000 | 43,125,000 | 574 | 747 | 1.157634006 | CDC14A |
| 3 | 43,050,000 | 43,200,000 | 575 | 927 | 0.33115428 | CDC14A,DBT,RTCA |
| 3 | 43,125,000 | 43,275,000 | 576 | 784 | 0.071339266 | CCDC76,DBT,LRRC39,RTCA |
| 3 | 43,200,000 | 43,350,000 | 577 | 445 | 0.296727163 | CCDC76,DBT,HIAT1,LRRC39,SASS6 |
| 3 | 43,275,000 | 43,425,000 | 578 | 597 | -0.281743941 | CCDC76,HIAT1,SASS6,SLC35A3 |
| 3 | 43,350,000 | 43,500,000 | 579 | 862 | 0.213716924 | HIAT1,SLC35A3 |
| 3 | 43,425,000 | 43,575,000 | 580 | 1222 | 0.277206038 | AGL,SLC35A3 |
| 3 | 43,500,000 | 43,650,000 | 581 | 1307 | 0.149314169 | AGL,ENSBTAG00000048022 |
| 3 | 43,575,000 | 43,725,000 | 582 | 1092 | 0.302847574 | AGL,FRRS1,PALMD,ENSBTAG00000048022 |
| 3 | 43,650,000 | 43,800,000 | 583 | 1002 | 0.186367238 | FRRS1,PALMD |
| 3 | 43,725,000 | 43,875,000 | 584 | 1120 | 0.199534464 | PALMD |
| 3 | 43,800,000 | 43,950,000 | 585 | 1477 | 0.838933547 | |
| 3 | 43,875,000 | 44,025,000 | 586 | 1410 | 1.138999679 | |
| 3 | 43,950,000 | 44,100,000 | 587 | 1282 | 0.171868315 | ENSBTAG00000019031 |
| 3 | 44,025,000 | 44,175,000 | 588 | 1371 | -0.590607812 | ENSBTAG00000019031 |
| 3 | 44,100,000 | 44,250,000 | 589 | 1029 | -1.83387833 | ENSBTAG00000019031 |
| 3 | 44,175,000 | 44,325,000 | 590 | 812 | -1.714982112 | |
| 3 | 44,250,000 | 44,400,000 | 591 | 1014 | -1.585746297 | ENSBTAG00000004591 |
| 3 | 44,325,000 | 44,475,000 | 592 | 1099 | -1.680297037 | ENSBTAG00000004591 |
| 3 | 44,400,000 | 44,550,000 | 593 | 1056 | -0.520309879 | ENSBTAG00000004591 |
| 3 | 44,475,000 | 44,625,000 | 594 | 752 | 0.174255394 | |
| 3 | 44,550,000 | 44,700,000 | 595 | 620 | 0.680385631 | SNX7 |
| 3 | 44,625,000 | 44,775,000 | 596 | 701 | 0.643580119 | SNX7 |
| 3 | 44,700,000 | 44,850,000 | 597 | 745 | 0.274767497 | SNX7 |
| 3 | 44,775,000 | 44,925,000 | 598 | 725 | 0.31104982 | SNX7 |
| 3 | 44,850,000 | 45,000,000 | 599 | 397 | 1.258615599 | |
| 3 | 44,925,000 | 45,075,000 | 600 | 271 | 1.264730241 | |
| 3 | 45,000,000 | 45,150,000 | 601 | 263 | 1.179020671 | |
| 3 | 45,075,000 | 45,225,000 | 602 | 362 | 1.030747031 | |
| 3 | 45,150,000 | 45,300,000 | 603 | 400 | 0.666036426 | |
| 3 | 45,225,000 | 45,375,000 | 604 | 334 | 0.282073674 | |
| 3 | 45,300,000 | 45,450,000 | 605 | 285 | -0.407524182 | |
| 3 | 45,375,000 | 45,525,000 | 606 | 240 | -1.906722802 | |
| 3 | 45,450,000 | 45,600,000 | 607 | 246 | -1.428456286 | DPYD |
| 3 | 45,525,000 | 45,675,000 | 608 | 525 | -1.143143621 | DPYD |
| 3 | 45,600,000 | 45,750,000 | 609 | 615 | -0.888771474 | DPYD |
| 3 | 45,675,000 | 45,825,000 | 610 | 837 | -0.310572404 | DPYD |
| 3 | 45,750,000 | 45,900,000 | 611 | 1265 | -0.132172261 | DPYD |
| 3 | 45,825,000 | 45,975,000 | 612 | 1234 | 0.779471925 | DPYD |
| 3 | 45,900,000 | 46,050,000 | 613 | 1252 | 0.716996591 | DPYD |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 45,975,000 | 46,125,000 | 614 | 1308 | 0.622526852 | DPYD |
| 3 | 46,050,000 | 46,200,000 | 615 | 1238 | 0.804712558 | DPYD |
| 3 | 46,125,000 | 46,275,000 | 616 | 1072 | 0.603408873 | DPYD |
| 3 | 46,200,000 | 46,350,000 | 617 | 904 | 0.539095329 | DPYD |
| 3 | 46,275,000 | 46,425,000 | 618 | 933 | -1.039350369 | DPYD |
| 3 | 46,350,000 | 46,500,000 | 619 | 1183 | -0.976211804 | DPYD |
| 3 | 46,425,000 | 46,575,000 | 620 | 1405 | 0.098304959 | DPYD |
| 3 | 46,500,000 | 46,650,000 | 621 | 1119 | 0.229502297 | |
| 3 | 46,575,000 | 46,725,000 | 622 | 975 | 0.556234414 | |
| 3 | 46,650,000 | 46,800,000 | 623 | 1214 | 0.866986299 | |
| 3 | 46,725,000 | 46,875,000 | 624 | 1027 | 0.770804343 | PTBP2 |
| 3 | 46,800,000 | 46,950,000 | 625 | 892 | 0.889206432 | PTBP2 |
| 3 | 46,875,000 | 47,025,000 | 626 | 1121 | 0.890068583 | PTBP2 |
| 3 | 46,950,000 | 47,100,000 | 627 | 1235 | 0.892978164 | |
| 3 | 47,025,000 | 47,175,000 | 628 | 1254 | 0.478164038 | |
| 3 | 47,100,000 | 47,250,000 | 629 | 1113 | 0.0359503 | |
| 3 | 47,175,000 | 47,325,000 | 630 | 1029 | 0.599817692 | |
| 3 | 47,250,000 | 47,400,000 | 631 | 1271 | 0.752823432 | |
| 3 | 47,325,000 | 47,475,000 | 632 | 1299 | 0.674706943 | |
| 3 | 47,400,000 | 47,550,000 | 633 | 1277 | 0.796405866 | |
| 3 | 47,475,000 | 47,625,000 | 634 | 961 | 0.337077844 | |
| 3 | 47,550,000 | 47,700,000 | 635 | 624 | -1.001340436 | |
| 3 | 47,625,000 | 47,775,000 | 636 | 817 | 0.532300712 | |
| 3 | 47,700,000 | 47,850,000 | 637 | 768 | 1.273995114 | |
| 3 | 47,775,000 | 47,925,000 | 638 | 645 | 1.016872214 | |
| 3 | 47,850,000 | 48,000,000 | 639 | 594 | 0.870224117 | |
| 3 | 47,925,000 | 48,075,000 | 640 | 579 | -0.243180796 | |
| 3 | 48,000,000 | 48,150,000 | 641 | 756 | 0.118028284 | |
| 3 | 48,075,000 | 48,225,000 | 642 | 759 | 0.931339443 | |
| 3 | 48,150,000 | 48,300,000 | 643 | 637 | -0.174903768 | |
| 3 | 48,225,000 | 48,375,000 | 644 | 431 | -0.870090789 | |
| 3 | 48,300,000 | 48,450,000 | 645 | 412 | -0.014052143 | RWDD3 |
| 3 | 48,375,000 | 48,525,000 | 646 | 652 | 0.551828876 | RWDD3,ENSBTAG00000044125 |
| 3 | 48,450,000 | 48,600,000 | 647 | 904 | 0.935630903 | ENSBTAG00000044125 |
| 3 | 48,525,000 | 48,675,000 | 648 | 883 | 0.65460707 | ALG14 |
| 3 | 48,600,000 | 48,750,000 | 649 | 588 | -0.591456742 | ALG14 |
| 3 | 48,675,000 | 48,825,000 | 650 | 511 | -0.210228355 | ALG14,CNN3,SLC44A3 |
| 3 | 48,750,000 | 48,900,000 | 651 | 698 | 1.196108585 | CNN3,SLC44A3 |
| 3 | 48,825,000 | 48,975,000 | 652 | 856 | 1.216735523 | SLC44A3 |
| 3 | 48,900,000 | 49,050,000 | 653 | 1074 | 0.709846009 | |
| 3 | 48,975,000 | 49,125,000 | 654 | 1223 | 0.663359592 | F3 |
| 3 | 49,050,000 | 49,200,000 | 655 | 1094 | 1.004003312 | ABCD3,F3 |
| 3 | 49,125,000 | 49,275,000 | 656 | 822 | 1.118492551 | ABCD3 |
| 3 | 49,200,000 | 49,350,000 | 657 | 891 | 1.290431187 | ABCD3 |
| 3 | 49,275,000 | 49,425,000 | 658 | 934 | 1.151354435 | ARHGAP29 |
| 3 | 49,350,000 | 49,500,000 | 659 | 723 | -0.300741081 | ARHGAP29 |
| 3 | 49,425,000 | 49,575,000 | 660 | 879 | -1.138727398 | ABCA4,ARHGAP29 |
| 3 | 49,500,000 | 49,650,000 | 661 | 1034 | -0.047830262 | ABCA4 |
| 3 | 49,575,000 | 49,725,000 | 662 | 1030 | 0.744484508 | ABCA4 |
| 3 | 49,650,000 | 49,800,000 | 663 | 808 | 0.716142998 | ABCA4,DNTTIP2,GCLM |
| 3 | 49,725,000 | 49,875,000 | 664 | 737 | 0.618726139 | BCAR3,DNTTIP2,GCLM |
| 3 | 49,800,000 | 49,950,000 | 665 | 1098 | 0.22469889 | BCAR3 |
| 3 | 49,875,000 | 50,025,000 | 666 | 1356 | 0.711307946 | BCAR3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------------------|
| 3 | 49,950,000 | 50,100,000 | 667 | 1036 | 1.126972232 | BCAR3,FNBP1L |
| 3 | 50,025,000 | 50,175,000 | 668 | 554 | 0.582001526 | BCAR3,FNBP1L |
| 3 | 50,100,000 | 50,250,000 | 669 | 428 | -0.13049652 | DR1,FNBP1L |
| 3 | 50,175,000 | 50,325,000 | 670 | 437 | -0.753564165 | DR1 |
| 3 | 50,250,000 | 50,400,000 | 671 | 416 | -0.391659868 | CCDC18,DR1 |
| 3 | 50,325,000 | 50,475,000 | 672 | 406 | 0.789367468 | CCDC18,TMED5 |
| 3 | 50,400,000 | 50,550,000 | 673 | 429 | 0.785856173 | CCDC18,MTF2,TMED5 |
| 3 | 50,475,000 | 50,625,000 | 674 | 673 | 0.727975043 | MTF2 |
| 3 | 50,550,000 | 50,700,000 | 675 | 958 | 0.391863934 | MGC143035,MTF2 |
| 3 | 50,625,000 | 50,775,000 | 676 | 964 | 0.044387839 | MGC143035 |
| 3 | 50,700,000 | 50,850,000 | 677 | 714 | 0.271796207 | MGC143035,RPL5 |
| 3 | 50,775,000 | 50,925,000 | 678 | 570 | -0.081100112 | EVI5,MGC143035,RPL5 |
| 3 | 50,850,000 | 51,000,000 | 679 | 666 | 0.638102938 | EVI5 |
| 3 | 50,925,000 | 51,075,000 | 680 | 557 | 1.310054184 | EVI5 |
| 3 | 51,000,000 | 51,150,000 | 681 | 488 | 0.729895106 | EVI5,GFI1 |
| 3 | 51,075,000 | 51,225,000 | 682 | 506 | -0.097282776 | GFI1,RPAP2 |
| 3 | 51,150,000 | 51,300,000 | 683 | 519 | -1.422655662 | GLMN,RPAP2 |
| 3 | 51,225,000 | 51,375,000 | 684 | 462 | -2.168394926 | C1orf146,GLMN,RPAP2 |
| 3 | 51,300,000 | 51,450,000 | 685 | 392 | -1.312843463 | BTBD8,C1orf146,GLMN |
| 3 | 51,375,000 | 51,525,000 | 686 | 808 | -0.350795593 | ABHD7,BTBD8,ENSBTAG00000040248 |
| 3 | 51,450,000 | 51,600,000 | 687 | 969 | -0.612280283 | ABHD7,BRDT,BTBD8,ENSBTAG00000040248 |
| 3 | 51,525,000 | 51,675,000 | 688 | 782 | -1.194815434 | ABHD7,BRDT,TGFBR3 |
| 3 | 51,600,000 | 51,750,000 | 689 | 815 | 0.029866736 | TGFBR3 |
| 3 | 51,675,000 | 51,825,000 | 690 | 773 | 0.725415122 | TGFBR3 |
| 3 | 51,750,000 | 51,900,000 | 691 | 636 | 0.58366516 | TGFBR3,ENSBTAG00000048081 |
| 3 | 51,825,000 | 51,975,000 | 692 | 765 | 0.949406703 | TGFBR3,ENSBTAG00000048081 |
| 3 | 51,900,000 | 52,050,000 | 693 | 779 | 1.127787429 | CDC7L1 |
| 3 | 51,975,000 | 52,125,000 | 694 | 410 | 1.026840772 | CDC7L1 |
| 3 | 52,050,000 | 52,200,000 | 695 | 689 | 0.867661765 | HFM1 |
| 3 | 52,125,000 | 52,275,000 | 696 | 726 | 0.674264613 | HFM1,ENSBTAG00000046077 |
| 3 | 52,200,000 | 52,350,000 | 697 | 724 | -0.252351717 | HFM1,ENSBTAG00000046077 |
| 3 | 52,275,000 | 52,425,000 | 698 | 1013 | -0.309071487 | ZNF644 |
| 3 | 52,350,000 | 52,500,000 | 699 | 891 | 0.020456237 | ZNF644 |
| 3 | 52,425,000 | 52,575,000 | 700 | 936 | 0.531069332 | ZNF644 |
| 3 | 52,500,000 | 52,650,000 | 701 | 749 | 0.74156207 | ZNF644 |
| 3 | 52,575,000 | 52,725,000 | 702 | 476 | 0.575239005 | BARHL2 |
| 3 | 52,650,000 | 52,800,000 | 703 | 561 | 0.958250595 | BARHL2 |
| 3 | 52,725,000 | 52,875,000 | 704 | 849 | 0.89715489 | |
| 3 | 52,800,000 | 52,950,000 | 705 | 922 | 0.427481399 | |
| 3 | 52,875,000 | 53,025,000 | 706 | 694 | -1.332531362 | |
| 3 | 52,950,000 | 53,100,000 | 707 | 478 | -2.294965278 | |
| 3 | 53,025,000 | 53,175,000 | 708 | 400 | -1.792125077 | |
| 3 | 53,100,000 | 53,250,000 | 709 | 699 | -1.242227951 | |
| 3 | 53,175,000 | 53,325,000 | 710 | 822 | -0.350687826 | |
| 3 | 53,250,000 | 53,400,000 | 711 | 641 | 0.526376826 | ZNF326 |
| 3 | 53,325,000 | 53,475,000 | 712 | 522 | 0.503887162 | ZNF326 |
| 3 | 53,400,000 | 53,550,000 | 713 | 414 | 0.180453768 | LRR8D,ZNF326 |
| 3 | 53,475,000 | 53,625,000 | 714 | 531 | -0.160328769 | LRR8D |
| 3 | 53,550,000 | 53,700,000 | 715 | 690 | 0.606493716 | LRR8D |
| 3 | 53,625,000 | 53,775,000 | 716 | 981 | 1.206709762 | LRR8C |
| 3 | 53,700,000 | 53,850,000 | 717 | 1101 | 1.183970233 | LRR8C |
| 3 | 53,775,000 | 53,925,000 | 718 | 985 | 0.562270395 | LRR8B,LRR8C |
| 3 | 53,850,000 | 54,000,000 | 719 | 1219 | 0.068914418 | LRR8B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 53,925,000 | 54,075,000 | 720 | 1143 | 0.053644733 | ENSBTAG00000014857 |
| 3 | 54,000,000 | 54,150,000 | 721 | 1027 | -0.866891358 | ENSBTAG00000014857 |
| 3 | 54,075,000 | 54,225,000 | 722 | 1115 | -0.803161317 | GBP6,ENSBTAG00000046294 |
| 3 | 54,150,000 | 54,300,000 | 723 | 1329 | -0.544676831 | GBP5,GBP6,ENSBTAG00000046294 |
| 3 | 54,225,000 | 54,375,000 | 724 | 1555 | -1.197822298 | GBP5,ENSBTAG00000017670,ENSBTAG00000038938 |
| 3 | 54,300,000 | 54,450,000 | 725 | 1010 | -1.885821924 | HNRNPA1L2,ENSBTAG00000017670,ENSBTAG00000038233,ENSBTAG00000038938 |
| 3 | 54,375,000 | 54,525,000 | 726 | 489 | -2.041078587 | HNRNPA1L2,ENSBTAG00000037490,ENSBTAG00000038233 |
| 3 | 54,450,000 | 54,600,000 | 727 | 829 | -0.860453972 | ENSBTAG00000037490,ENSBTAG00000037634 |
| 3 | 54,525,000 | 54,675,000 | 728 | 1329 | -0.354436208 | GBP4,ENSBTAG00000037490,ENSBTAG00000037634 |
| 3 | 54,600,000 | 54,750,000 | 729 | 1215 | 0.100752355 | GBP4,ENSBTAG00000037634 |
| 3 | 54,675,000 | 54,825,000 | 730 | 1216 | 1.077365586 | GBP4,GBP6,ENSBTAG00000024272 |
| 3 | 54,750,000 | 54,900,000 | 731 | 1301 | 1.079776056 | GBP6,ENSBTAG00000024272,ENSBTAG00000038625 |
| 3 | 54,825,000 | 54,975,000 | 732 | 1034 | 0.982158323 | ENSBTAG0000002416,ENSBTAG00000038625 |
| 3 | 54,900,000 | 55,050,000 | 733 | 818 | 0.795178934 | ENSBTAG0000002416,ENSBTAG00000038500 |
| 3 | 54,975,000 | 55,125,000 | 734 | 969 | 0.797768944 | CCBL2,ENSBTAG00000001143,ENSBTAG00000038500 |
| 3 | 55,050,000 | 55,200,000 | 735 | 1274 | 0.973742769 | CCBL2,GTF2B,ENSBTAG00000001143 |
| 3 | 55,125,000 | 55,275,000 | 736 | 1057 | 0.91433242 | CCBL2,GTF2B,PKN2 |
| 3 | 55,200,000 | 55,350,000 | 737 | 949 | 0.512168998 | GTF2B,PKN2 |
| 3 | 55,275,000 | 55,425,000 | 738 | 1207 | -0.064286504 | PKN2 |
| 3 | 55,350,000 | 55,500,000 | 739 | 1326 | -0.072355011 | PKN2 |
| 3 | 55,425,000 | 55,575,000 | 740 | 1206 | 0.168430591 | |
| 3 | 55,500,000 | 55,650,000 | 741 | 962 | 0.126763356 | |
| 3 | 55,575,000 | 55,725,000 | 742 | 910 | 0.387543264 | |
| 3 | 55,650,000 | 55,800,000 | 743 | 832 | -1.226016063 | |
| 3 | 55,725,000 | 55,875,000 | 744 | 575 | -2.014362273 | |
| 3 | 55,800,000 | 55,950,000 | 745 | 597 | 1.073959976 | |
| 3 | 55,875,000 | 56,025,000 | 746 | 457 | 1.110640686 | |
| 3 | 55,950,000 | 56,100,000 | 747 | 272 | 0.832045291 | |
| 3 | 56,025,000 | 56,175,000 | 748 | 307 | 0.884902445 | |
| 3 | 56,100,000 | 56,250,000 | 749 | 323 | 0.56772516 | ENSBTAG00000001873 |
| 3 | 56,175,000 | 56,325,000 | 750 | 476 | 0.07094491 | ENSBTAG00000001873 |
| 3 | 56,250,000 | 56,400,000 | 751 | 535 | 0.672147049 | |
| 3 | 56,325,000 | 56,475,000 | 752 | 752 | 1.265668049 | |
| 3 | 56,400,000 | 56,550,000 | 753 | 940 | 0.993639278 | |
| 3 | 56,475,000 | 56,625,000 | 754 | 676 | 0.693427704 | |
| 3 | 56,550,000 | 56,700,000 | 755 | 401 | 0.651537318 | |
| 3 | 56,625,000 | 56,775,000 | 756 | 398 | 0.635350962 | |
| 3 | 56,700,000 | 56,850,000 | 757 | 645 | 0.901475107 | LMO4 |
| 3 | 56,775,000 | 56,925,000 | 758 | 692 | 0.738597648 | LMO4 |
| 3 | 56,850,000 | 57,000,000 | 759 | 471 | 0.307455318 | |
| 3 | 56,925,000 | 57,075,000 | 760 | 729 | 0.335367298 | |
| 3 | 57,000,000 | 57,150,000 | 761 | 1075 | -0.329723325 | ENSBTAG00000017595 |
| 3 | 57,075,000 | 57,225,000 | 762 | 1240 | -0.676990242 | ENSBTAG00000017595 |
| 3 | 57,150,000 | 57,300,000 | 763 | 1322 | 0.320420153 | |
| 3 | 57,225,000 | 57,375,000 | 764 | 1327 | 0.900528559 | ENSBTAG00000012502 |
| 3 | 57,300,000 | 57,450,000 | 765 | 1225 | 0.644768571 | SH3GLB1,ENSBTAG00000012502 |
| 3 | 57,375,000 | 57,525,000 | 766 | 1087 | 0.448815171 | SH3GLB1,ENSBTAG00000021501 |
| 3 | 57,450,000 | 57,600,000 | 767 | 882 | 0.423674553 | SH3GLB1,ENSBTAG00000016712,ENSBTAG00000021501 |
| 3 | 57,525,000 | 57,675,000 | 768 | 830 | -1.810750773 | CLCA4,ENSBTAG00000016712,ENSBTAG00000021501 |
| 3 | 57,600,000 | 57,750,000 | 769 | 1199 | -0.527035736 | CLCA1,CLCA4 |
| 3 | 57,675,000 | 57,825,000 | 770 | 1545 | 0.638310773 | CLCA1,CLCA2,ODF2L |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 57,750,000 | 57,900,000 | 771 | 1160 | 0.634808715 | CLCA2,ODF2L |
| 3 | 57,825,000 | 57,975,000 | 772 | 1137 | 0.74980547 | ODF2L |
| 3 | 57,900,000 | 58,050,000 | 773 | 1163 | 0.808269575 | |
| 3 | 57,975,000 | 58,125,000 | 774 | 610 | 0.596563699 | |
| 3 | 58,050,000 | 58,200,000 | 775 | 773 | 0.356431556 | |
| 3 | 58,125,000 | 58,275,000 | 776 | 1402 | -0.184904848 | |
| 3 | 58,200,000 | 58,350,000 | 777 | 1161 | -0.217051663 | |
| 3 | 58,275,000 | 58,425,000 | 778 | 636 | 0.506230059 | |
| 3 | 58,350,000 | 58,500,000 | 779 | 666 | 0.626263291 | |
| 3 | 58,425,000 | 58,575,000 | 780 | 714 | 0.215463887 | ZNHIT6,ENSBTAG00000048312 |
| 3 | 58,500,000 | 58,650,000 | 781 | 673 | -0.292509963 | ZNHIT6,ENSBTAG00000048312 |
| 3 | 58,575,000 | 58,725,000 | 782 | 709 | 1.07315677 | CYR61,ZNHIT6 |
| 3 | 58,650,000 | 58,800,000 | 783 | 827 | 0.77668524 | CYR61 |
| 3 | 58,725,000 | 58,875,000 | 784 | 550 | -0.822760977 | DDAH1 |
| 3 | 58,800,000 | 58,950,000 | 785 | 367 | -0.393804879 | DDAH1 |
| 3 | 58,875,000 | 59,025,000 | 786 | 380 | -1.106356171 | BCL10,DDAH1 |
| 3 | 58,950,000 | 59,100,000 | 787 | 378 | -1.638380283 | BCL10,C1orf52,DDAH1,SYDE2 |
| 3 | 59,025,000 | 59,175,000 | 788 | 433 | -1.39938782 | C1orf52,SYDE2,WDR63,ENSBTAG00000047351 |
| 3 | 59,100,000 | 59,250,000 | 789 | 432 | -0.739053041 | SYDE2,WDR63,ENSBTAG00000047351 |
| 3 | 59,175,000 | 59,325,000 | 790 | 469 | -2.787017033 | MCOLN2,MCOLN3,WDR63,ENSBTAG00000047351 |
| 3 | 59,250,000 | 59,400,000 | 791 | 461 | -2.842243882 | MCOLN2,MCOLN3 |
| 3 | 59,325,000 | 59,475,000 | 792 | 485 | -0.913230512 | LPAR3,MCOLN2 |
| 3 | 59,400,000 | 59,550,000 | 793 | 480 | -0.980912612 | LPAR3 |
| 3 | 59,475,000 | 59,625,000 | 794 | 328 | -0.43116544 | SSX2IP |
| 3 | 59,550,000 | 59,700,000 | 795 | 273 | -0.493326921 | SSX2IP |
| 3 | 59,625,000 | 59,775,000 | 796 | 213 | -0.394839678 | CTB,SSX2IP,ENSBTAG00000020010 |
| 3 | 59,700,000 | 59,850,000 | 797 | 395 | -0.405372659 | BXDC5,CTB,GNG5,ENSBTAG00000020010 |
| 3 | 59,775,000 | 59,925,000 | 798 | 697 | -0.359851083 | BXDC5,DNASE2B,GNG5,UOX |
| 3 | 59,850,000 | 60,000,000 | 799 | 620 | -0.247485771 | DNASE2B,SAMD13,UOX,ENSBTAG0000007724 |
| 3 | 59,925,000 | 60,075,000 | 800 | 454 | 0.678458326 | SAMD13,UOX,ENSBTAG0000007724 |
| 3 | 60,000,000 | 60,150,000 | 801 | 438 | 0.630455676 | PRKACB,SAMD13 |
| 3 | 60,075,000 | 60,225,000 | 802 | 504 | 0.018344329 | PRKACB |
| 3 | 60,150,000 | 60,300,000 | 803 | 815 | 0.456259894 | PRKACB |
| 3 | 60,225,000 | 60,375,000 | 804 | 1027 | 0.080627489 | EIF1,TTLL7 |
| 3 | 60,300,000 | 60,450,000 | 805 | 1043 | 0.263551748 | EIF1,TTLL7 |
| 3 | 60,375,000 | 60,525,000 | 806 | 865 | 0.898737574 | TTLL7 |
| 3 | 60,450,000 | 60,600,000 | 807 | 788 | 0.042831835 | |
| 3 | 60,525,000 | 60,675,000 | 808 | 851 | -0.332983088 | |
| 3 | 60,600,000 | 60,750,000 | 809 | 986 | -0.364427466 | |
| 3 | 60,675,000 | 60,825,000 | 810 | 916 | -0.565561683 | |
| 3 | 60,750,000 | 60,900,000 | 811 | 968 | -0.168973947 | |
| 3 | 60,825,000 | 60,975,000 | 812 | 1264 | 0.016661626 | |
| 3 | 60,900,000 | 61,050,000 | 813 | 1418 | -0.242244984 | |
| 3 | 60,975,000 | 61,125,000 | 814 | 1361 | -0.579504333 | |
| 3 | 61,050,000 | 61,200,000 | 815 | 1180 | -0.457081273 | |
| 3 | 61,125,000 | 61,275,000 | 816 | 1068 | -0.576794225 | ENSBTAG00000031088 |
| 3 | 61,200,000 | 61,350,000 | 817 | 878 | -0.389657126 | ENSBTAG00000031088 |
| 3 | 61,275,000 | 61,425,000 | 818 | 878 | 0.602854422 | |
| 3 | 61,350,000 | 61,500,000 | 819 | 829 | 0.678418015 | |
| 3 | 61,425,000 | 61,575,000 | 820 | 907 | 0.984951697 | |
| 3 | 61,500,000 | 61,650,000 | 821 | 1056 | 0.589266514 | |
| 3 | 61,575,000 | 61,725,000 | 822 | 1011 | 0.305859172 | |
| 3 | 61,650,000 | 61,800,000 | 823 | 1034 | 0.449094311 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 3 | 61,725,000 | 61,875,000 | 824 | 933 | 0.142374074 | |
| 3 | 61,800,000 | 61,950,000 | 825 | 844 | 0.520960099 | |
| 3 | 61,875,000 | 62,025,000 | 826 | 928 | 0.668887699 | |
| 3 | 61,950,000 | 62,100,000 | 827 | 899 | 0.87412331 | |
| 3 | 62,025,000 | 62,175,000 | 828 | 882 | 0.604827112 | |
| 3 | 62,100,000 | 62,250,000 | 829 | 853 | -0.051860506 | |
| 3 | 62,175,000 | 62,325,000 | 830 | 822 | 0.648307073 | |
| 3 | 62,250,000 | 62,400,000 | 831 | 928 | 1.196182185 | |
| 3 | 62,325,000 | 62,475,000 | 832 | 1201 | 1.298990945 | |
| 3 | 62,400,000 | 62,550,000 | 833 | 1125 | 1.179906106 | |
| 3 | 62,475,000 | 62,625,000 | 834 | 631 | 0.858845238 | |
| 3 | 62,550,000 | 62,700,000 | 835 | 535 | -1.108459652 | LPHN2 |
| 3 | 62,625,000 | 62,775,000 | 836 | 525 | -1.461335551 | LPHN2 |
| 3 | 62,700,000 | 62,850,000 | 837 | 455 | 0.253314797 | LPHN2 |
| 3 | 62,775,000 | 62,925,000 | 838 | 665 | 0.737916563 | LPHN2 |
| 3 | 62,850,000 | 63,000,000 | 839 | 842 | 0.121639607 | |
| 3 | 62,925,000 | 63,075,000 | 840 | 703 | -0.076839838 | ENSBTAG00000047248 |
| 3 | 63,000,000 | 63,150,000 | 841 | 679 | 0.185594779 | ENSBTAG00000047248 |
| 3 | 63,075,000 | 63,225,000 | 842 | 606 | -0.178099026 | |
| 3 | 63,150,000 | 63,300,000 | 843 | 490 | -1.083345133 | |
| 3 | 63,225,000 | 63,375,000 | 844 | 607 | 0.039509386 | |
| 3 | 63,300,000 | 63,450,000 | 845 | 651 | 0.380913545 | |
| 3 | 63,375,000 | 63,525,000 | 846 | 561 | 0.150960385 | |
| 3 | 63,450,000 | 63,600,000 | 847 | 353 | 0.826460129 | |
| 3 | 63,525,000 | 63,675,000 | 848 | 312 | 0.524231602 | |
| 3 | 63,600,000 | 63,750,000 | 849 | 495 | 0.581422319 | |
| 3 | 63,675,000 | 63,825,000 | 850 | 568 | -0.432864906 | |
| 3 | 63,750,000 | 63,900,000 | 851 | 569 | -0.432831096 | |
| 3 | 63,825,000 | 63,975,000 | 852 | 807 | 0.272374148 | |
| 3 | 63,900,000 | 64,050,000 | 853 | 662 | -0.170615283 | |
| 3 | 63,975,000 | 64,125,000 | 854 | 673 | -0.387535304 | |
| 3 | 64,050,000 | 64,200,000 | 855 | 924 | -0.368534052 | |
| 3 | 64,125,000 | 64,275,000 | 856 | 675 | -1.438414146 | |
| 3 | 64,200,000 | 64,350,000 | 857 | 516 | -0.506721513 | |
| 3 | 64,275,000 | 64,425,000 | 858 | 371 | 0.841798052 | |
| 3 | 64,350,000 | 64,500,000 | 859 | 580 | -0.561717577 | |
| 3 | 64,425,000 | 64,575,000 | 860 | 725 | -0.80471282 | |
| 3 | 64,500,000 | 64,650,000 | 861 | 463 | -0.219242007 | |
| 3 | 64,575,000 | 64,725,000 | 862 | 533 | 0.283723851 | |
| 3 | 64,650,000 | 64,800,000 | 863 | 1006 | 0.539500561 | |
| 3 | 64,725,000 | 64,875,000 | 864 | 900 | 0.554947002 | |
| 3 | 64,800,000 | 64,950,000 | 865 | 625 | 0.911524778 | |
| 3 | 64,875,000 | 65,025,000 | 866 | 745 | 1.101036077 | |
| 3 | 64,950,000 | 65,100,000 | 867 | 599 | 1.011460245 | |
| 3 | 65,025,000 | 65,175,000 | 868 | 691 | 0.80773992 | |
| 3 | 65,100,000 | 65,250,000 | 869 | 948 | 0.910580106 | |
| 3 | 65,175,000 | 65,325,000 | 870 | 825 | 0.891594672 | |
| 3 | 65,250,000 | 65,400,000 | 871 | 527 | 0.108862081 | |
| 3 | 65,325,000 | 65,475,000 | 872 | 802 | 0.055238649 | |
| 3 | 65,400,000 | 65,550,000 | 873 | 1150 | 0.506895235 | |
| 3 | 65,475,000 | 65,625,000 | 874 | 796 | 0.919131825 | |
| 3 | 65,550,000 | 65,700,000 | 875 | 563 | 1.197616193 | |
| 3 | 65,625,000 | 65,775,000 | 876 | 805 | 1.141456088 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 65,700,000 | 65,850,000 | 877 | 1006 | -0.261171781 | |
| 3 | 65,775,000 | 65,925,000 | 878 | 902 | -0.805354717 | ELTD1 |
| 3 | 65,850,000 | 66,000,000 | 879 | 710 | 1.108759098 | ELTD1 |
| 3 | 65,925,000 | 66,075,000 | 880 | 1109 | 1.032976476 | ELTD1 |
| 3 | 66,000,000 | 66,150,000 | 881 | 1349 | 0.749946619 | ELTD1 |
| 3 | 66,075,000 | 66,225,000 | 882 | 1273 | 0.442321145 | |
| 3 | 66,150,000 | 66,300,000 | 883 | 1007 | 0.221777909 | IFI44 |
| 3 | 66,225,000 | 66,375,000 | 884 | 664 | -0.60648745 | IFI44,IFI44L |
| 3 | 66,300,000 | 66,450,000 | 885 | 501 | -0.632629891 | FP,IFI44L |
| 3 | 66,375,000 | 66,525,000 | 886 | 503 | 0.251562336 | FP |
| 3 | 66,450,000 | 66,600,000 | 887 | 820 | 0.644124981 | |
| 3 | 66,525,000 | 66,675,000 | 888 | 804 | 0.571477753 | |
| 3 | 66,600,000 | 66,750,000 | 889 | 981 | 0.560296465 | |
| 3 | 66,675,000 | 66,825,000 | 890 | 1044 | 0.599329145 | GIPC2,ENSBTAG00000031082 |
| 3 | 66,750,000 | 66,900,000 | 891 | 645 | 0.728090197 | GIPC2,ENSBTAG00000031082 |
| 3 | 66,825,000 | 66,975,000 | 892 | 462 | 1.144435878 | DNAJB4,FUBP1,GIPC2 |
| 3 | 66,900,000 | 67,050,000 | 893 | 431 | 1.002473081 | DNAJB4,FUBP1,NEXN |
| 3 | 66,975,000 | 67,125,000 | 894 | 807 | 0.991211818 | FAM73A,FUBP1,NEXN |
| 3 | 67,050,000 | 67,200,000 | 895 | 1050 | 0.845921806 | FAM73A,NEXN,USP33 |
| 3 | 67,125,000 | 67,275,000 | 896 | 771 | 0.534307503 | FAM73A,USP33,ZZZ3 |
| 3 | 67,200,000 | 67,350,000 | 897 | 531 | 0.214495353 | USP33,ZZZ3 |
| 3 | 67,275,000 | 67,425,000 | 898 | 773 | -0.679108159 | AK5,ZZZ3 |
| 3 | 67,350,000 | 67,500,000 | 899 | 1424 | 0.039000292 | AK5 |
| 3 | 67,425,000 | 67,575,000 | 900 | 1388 | 0.812663591 | AK5 |
| 3 | 67,500,000 | 67,650,000 | 901 | 713 | 0.792213386 | AK5 |
| 3 | 67,575,000 | 67,725,000 | 902 | 387 | -0.936484829 | AK5,PIGK |
| 3 | 67,650,000 | 67,800,000 | 903 | 541 | -0.692659598 | PIGK |
| 3 | 67,725,000 | 67,875,000 | 904 | 614 | -0.451356367 | PIGK,ST6GALNAC5 |
| 3 | 67,800,000 | 67,950,000 | 905 | 627 | -0.10646594 | PIGK,ST6GALNAC5 |
| 3 | 67,875,000 | 68,025,000 | 906 | 497 | 0.30171743 | ST6GALNAC5 |
| 3 | 67,950,000 | 68,100,000 | 907 | 344 | -0.062713811 | ST6GALNAC5 |
| 3 | 68,025,000 | 68,175,000 | 908 | 828 | 0.091813492 | ST6GALNAC5 |
| 3 | 68,100,000 | 68,250,000 | 909 | 864 | 0.092046336 | |
| 3 | 68,175,000 | 68,325,000 | 910 | 722 | 0.253309453 | |
| 3 | 68,250,000 | 68,400,000 | 911 | 1024 | 0.516645265 | |
| 3 | 68,325,000 | 68,475,000 | 912 | 1078 | 0.554308023 | |
| 3 | 68,400,000 | 68,550,000 | 913 | 1204 | 0.429503235 | |
| 3 | 68,475,000 | 68,625,000 | 914 | 1038 | 0.158428841 | |
| 3 | 68,550,000 | 68,700,000 | 915 | 908 | 0.545879696 | |
| 3 | 68,625,000 | 68,775,000 | 916 | 998 | -0.430741845 | |
| 3 | 68,700,000 | 68,850,000 | 917 | 970 | -0.102602387 | |
| 3 | 68,775,000 | 68,925,000 | 918 | 857 | 0.985588004 | |
| 3 | 68,850,000 | 69,000,000 | 919 | 716 | 0.666720609 | |
| 3 | 68,925,000 | 69,075,000 | 920 | 589 | 0.488143178 | |
| 3 | 69,000,000 | 69,150,000 | 921 | 736 | -0.690045945 | |
| 3 | 69,075,000 | 69,225,000 | 922 | 629 | -0.621986995 | ASB17,MSH4 |
| 3 | 69,150,000 | 69,300,000 | 923 | 288 | -0.166527074 | ASB17,MSH4 |
| 3 | 69,225,000 | 69,375,000 | 924 | 356 | -1.179793171 | ACADM,MSH4,RABGGTB |
| 3 | 69,300,000 | 69,450,000 | 925 | 420 | -0.876110527 | ACADM,MSH4,RABGGTB |
| 3 | 69,375,000 | 69,525,000 | 926 | 575 | 0.798570631 | ACADM |
| 3 | 69,450,000 | 69,600,000 | 927 | 559 | 0.844037292 | |
| 3 | 69,525,000 | 69,675,000 | 928 | 466 | -0.94669469 | |
| 3 | 69,600,000 | 69,750,000 | 929 | 709 | -0.935237835 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 3 | 69,675,000 | 69,825,000 | 930 | 1046 | -0.194869563 | SLC44A5 |
| 3 | 69,750,000 | 69,900,000 | 931 | 1010 | -0.258284996 | LHX8,SLC44A5 |
| 3 | 69,825,000 | 69,975,000 | 932 | 642 | -0.221715742 | LHX8,SLC44A5 |
| 3 | 69,900,000 | 70,050,000 | 933 | 532 | 0.813156668 | LHX8 |
| 3 | 69,975,000 | 70,125,000 | 934 | 538 | 0.444168047 | |
| 3 | 70,050,000 | 70,200,000 | 935 | 419 | 0.577179389 | |
| 3 | 70,125,000 | 70,275,000 | 936 | 642 | 0.260833129 | CRYZ,TYW3 |
| 3 | 70,200,000 | 70,350,000 | 937 | 773 | 0.308871311 | CRYZ,ERICH3,TYW3 |
| 3 | 70,275,000 | 70,425,000 | 938 | 581 | 0.710695637 | CRYZ,ERICH3 |
| 3 | 70,350,000 | 70,500,000 | 939 | 451 | 0.431887391 | ERICH3,TNNI3K |
| 3 | 70,425,000 | 70,575,000 | 940 | 570 | -0.507016679 | TNNI3K |
| 3 | 70,500,000 | 70,650,000 | 941 | 825 | -1.134596248 | TNNI3K |
| 3 | 70,575,000 | 70,725,000 | 942 | 843 | -1.151539142 | TNNI3K |
| 3 | 70,650,000 | 70,800,000 | 943 | 960 | -0.704817688 | TNNI3K |
| 3 | 70,725,000 | 70,875,000 | 944 | 873 | 0.170612633 | TNNI3K |
| 3 | 70,800,000 | 70,950,000 | 945 | 436 | 1.122196009 | FPGT,LRRIQ3,TNNI3K |
| 3 | 70,875,000 | 71,025,000 | 946 | 295 | 0.954268908 | FPGT,LRRIQ3 |
| 3 | 70,950,000 | 71,100,000 | 947 | 540 | 1.219334241 | LRRIQ3 |
| 3 | 71,025,000 | 71,175,000 | 948 | 777 | 1.277923388 | |
| 3 | 71,100,000 | 71,250,000 | 949 | 722 | 0.730347587 | |
| 3 | 71,175,000 | 71,325,000 | 950 | 687 | 0.34384571 | |
| 3 | 71,250,000 | 71,400,000 | 951 | 847 | 0.694387224 | |
| 3 | 71,325,000 | 71,475,000 | 952 | 962 | 0.882330866 | |
| 3 | 71,400,000 | 71,550,000 | 953 | 804 | 1.039045555 | |
| 3 | 71,475,000 | 71,625,000 | 954 | 656 | 0.760417662 | |
| 3 | 71,550,000 | 71,700,000 | 955 | 720 | 0.995921548 | |
| 3 | 71,625,000 | 71,775,000 | 956 | 900 | 1.07376942 | |
| 3 | 71,700,000 | 71,850,000 | 957 | 1221 | 0.965016653 | |
| 3 | 71,775,000 | 71,925,000 | 958 | 1336 | 0.86408165 | |
| 3 | 71,850,000 | 72,000,000 | 959 | 1416 | 0.8559274 | |
| 3 | 71,925,000 | 72,075,000 | 960 | 1429 | 0.856843637 | |
| 3 | 72,000,000 | 72,150,000 | 961 | 1335 | 0.396180541 | |
| 3 | 72,075,000 | 72,225,000 | 962 | 1522 | -0.514796054 | |
| 3 | 72,150,000 | 72,300,000 | 963 | 1373 | -0.021535286 | |
| 3 | 72,225,000 | 72,375,000 | 964 | 1200 | 0.914826982 | |
| 3 | 72,300,000 | 72,450,000 | 965 | 1055 | 0.892734272 | |
| 3 | 72,375,000 | 72,525,000 | 966 | 774 | 0.646126956 | ENSBTAG00000006600 |
| 3 | 72,450,000 | 72,600,000 | 967 | 962 | 0.522725471 | ENSBTAG00000006600 |
| 3 | 72,525,000 | 72,675,000 | 968 | 1223 | 0.520953514 | |
| 3 | 72,600,000 | 72,750,000 | 969 | 1185 | 0.418733904 | |
| 3 | 72,675,000 | 72,825,000 | 970 | 1362 | -0.081956338 | |
| 3 | 72,750,000 | 72,900,000 | 971 | 1203 | -0.154539252 | |
| 3 | 72,825,000 | 72,975,000 | 972 | 515 | 0.136685498 | |
| 3 | 72,900,000 | 73,050,000 | 973 | 278 | 0.081338988 | |
| 3 | 72,975,000 | 73,125,000 | 974 | 502 | -0.303821375 | |
| 3 | 73,050,000 | 73,200,000 | 975 | 616 | 0.392691338 | |
| 3 | 73,125,000 | 73,275,000 | 976 | 657 | 0.800349854 | |
| 3 | 73,200,000 | 73,350,000 | 977 | 733 | -0.071383738 | |
| 3 | 73,275,000 | 73,425,000 | 978 | 540 | -0.683023799 | |
| 3 | 73,350,000 | 73,500,000 | 979 | 540 | 0.382300171 | |
| 3 | 73,425,000 | 73,575,000 | 980 | 735 | 1.065589999 | |
| 3 | 73,500,000 | 73,650,000 | 981 | 708 | 0.896805017 | |
| 3 | 73,575,000 | 73,725,000 | 982 | 657 | 0.660974775 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 3 | 73,650,000 | 73,800,000 | 983 | 851 | 0.137989112 | |
| 3 | 73,725,000 | 73,875,000 | 984 | 965 | -1.688392464 | |
| 3 | 73,800,000 | 73,950,000 | 985 | 787 | -5.615171061 | |
| 3 | 73,875,000 | 74,025,000 | 986 | 819 | -4.282230812 | |
| 3 | 73,950,000 | 74,100,000 | 987 | 1013 | -0.958150176 | |
| 3 | 74,025,000 | 74,175,000 | 988 | 764 | -0.868345047 | |
| 3 | 74,100,000 | 74,250,000 | 989 | 576 | 0.316990564 | |
| 3 | 74,175,000 | 74,325,000 | 990 | 876 | 0.435915854 | |
| 3 | 74,250,000 | 74,400,000 | 991 | 700 | 0.390564547 | |
| 3 | 74,325,000 | 74,475,000 | 992 | 331 | -0.893217665 | ZRANB2 |
| 3 | 74,400,000 | 74,550,000 | 993 | 362 | -1.413126447 | PTGER3,ZRANB2 |
| 3 | 74,475,000 | 74,625,000 | 994 | 557 | -0.404252078 | PTGER3 |
| 3 | 74,550,000 | 74,700,000 | 995 | 660 | 0.616392953 | |
| 3 | 74,625,000 | 74,775,000 | 996 | 946 | 1.307116514 | |
| 3 | 74,700,000 | 74,850,000 | 997 | 1255 | 1.22721751 | |
| 3 | 74,775,000 | 74,925,000 | 998 | 945 | 1.035786961 | |
| 3 | 74,850,000 | 75,000,000 | 999 | 556 | -0.634708471 | |
| 3 | 74,925,000 | 75,075,000 | 1000 | 454 | -1.093242495 | |
| 3 | 75,000,000 | 75,150,000 | 1001 | 548 | 0.358049131 | ANKRD13C,CTH |
| 3 | 75,075,000 | 75,225,000 | 1002 | 585 | 0.276667498 | ANKRD13C,CTH |
| 3 | 75,150,000 | 75,300,000 | 1003 | 482 | -0.135914953 | ANKRD13C,LRRC40,SFRS11 |
| 3 | 75,225,000 | 75,375,000 | 1004 | 509 | 0.484607405 | ANKRD13C,LRRC40,LRRC7,SFRS11 |
| 3 | 75,300,000 | 75,450,000 | 1005 | 857 | 0.795305921 | LRRC40,LRRC7 |
| 3 | 75,375,000 | 75,525,000 | 1006 | 849 | 0.82510954 | LRRC7 |
| 3 | 75,450,000 | 75,600,000 | 1007 | 716 | 1.099814125 | LRRC7 |
| 3 | 75,525,000 | 75,675,000 | 1008 | 781 | 0.943280626 | LRRC7 |
| 3 | 75,600,000 | 75,750,000 | 1009 | 919 | 0.214658166 | LRRC7 |
| 3 | 75,675,000 | 75,825,000 | 1010 | 884 | -0.086585346 | LRRC7 |
| 3 | 75,750,000 | 75,900,000 | 1011 | 692 | -0.23847599 | |
| 3 | 75,825,000 | 75,975,000 | 1012 | 601 | 0.006370763 | |
| 3 | 75,900,000 | 76,050,000 | 1013 | 797 | -0.037148629 | |
| 3 | 75,975,000 | 76,125,000 | 1014 | 759 | -0.382318243 | |
| 3 | 76,050,000 | 76,200,000 | 1015 | 600 | -1.381158872 | |
| 3 | 76,125,000 | 76,275,000 | 1016 | 613 | -1.415525972 | |
| 3 | 76,200,000 | 76,350,000 | 1017 | 406 | -0.932703265 | |
| 3 | 76,275,000 | 76,425,000 | 1018 | 362 | 0.238726175 | |
| 3 | 76,350,000 | 76,500,000 | 1019 | 402 | 0.533709122 | |
| 3 | 76,425,000 | 76,575,000 | 1020 | 623 | 0.605608917 | |
| 3 | 76,500,000 | 76,650,000 | 1021 | 507 | 0.661509189 | |
| 3 | 76,575,000 | 76,725,000 | 1022 | 537 | -0.003990081 | |
| 3 | 76,650,000 | 76,800,000 | 1023 | 651 | -0.023680093 | |
| 3 | 76,725,000 | 76,875,000 | 1024 | 554 | -0.073817446 | |
| 3 | 76,800,000 | 76,950,000 | 1025 | 632 | 0.068975673 | |
| 3 | 76,875,000 | 77,025,000 | 1026 | 567 | 0.753776179 | |
| 3 | 76,950,000 | 77,100,000 | 1027 | 660 | 1.008130189 | DEPDC1 |
| 3 | 77,025,000 | 77,175,000 | 1028 | 566 | 0.984961839 | DEPDC1,RPE65,ENSBTAG00000030890 |
| 3 | 77,100,000 | 77,250,000 | 1029 | 308 | 0.614422989 | DEPDC1,RPE65,ENSBTAG00000030890 |
| 3 | 77,175,000 | 77,325,000 | 1030 | 300 | 0.428048958 | RPE65 |
| 3 | 77,250,000 | 77,400,000 | 1031 | 282 | 0.655415396 | WLS |
| 3 | 77,325,000 | 77,475,000 | 1032 | 318 | 0.592031946 | WLS |
| 3 | 77,400,000 | 77,550,000 | 1033 | 333 | 0.30281315 | WLS |
| 3 | 77,475,000 | 77,625,000 | 1034 | 311 | 0.311239401 | DIRAS3,WLS |
| 3 | 77,550,000 | 77,700,000 | 1035 | 306 | 0.202642283 | DIRAS3 |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------|
| 3 | 77,625,000 | 77,775,000 | 1036 | 352 | 0.593753597 | |
| 3 | 77,700,000 | 77,850,000 | 1037 | 450 | 0.846325994 | |
| 3 | 77,775,000 | 77,925,000 | 1038 | 418 | 0.769170517 | GNG12 |
| 3 | 77,850,000 | 78,000,000 | 1039 | 303 | 0.265244505 | GADD45A,GNG12 |
| 3 | 77,925,000 | 78,075,000 | 1040 | 292 | -0.357582466 | GADD45A,GNG12 |
| 3 | 78,000,000 | 78,150,000 | 1041 | 533 | 0.720449812 | |
| 3 | 78,075,000 | 78,225,000 | 1042 | 812 | 0.86794905 | |
| 3 | 78,150,000 | 78,300,000 | 1043 | 600 | 0.4768005 | IL12RB2,SERBP1 |
| 3 | 78,225,000 | 78,375,000 | 1044 | 489 | 0.178494633 | IL12RB2,SERBP1 |
| 3 | 78,300,000 | 78,450,000 | 1045 | 652 | 0.263195606 | IL12RB2,IL23R |
| 3 | 78,375,000 | 78,525,000 | 1046 | 964 | 0.471289761 | C1orf141,IL23R |
| 3 | 78,450,000 | 78,600,000 | 1047 | 1273 | 0.108369977 | C1orf141,IL23R |
| 3 | 78,525,000 | 78,675,000 | 1048 | 898 | -0.460521756 | C1orf141,MIER1,SLC35D2 |
| 3 | 78,600,000 | 78,750,000 | 1049 | 411 | -0.03910091 | MIER1,SLC35D2,WDR78 |
| 3 | 78,675,000 | 78,825,000 | 1050 | 619 | -0.847413631 | MIER1,WDR78 |
| 3 | 78,750,000 | 78,900,000 | 1051 | 869 | -0.872966649 | INSL5,TCTEX1D1,WDR78 |
| 3 | 78,825,000 | 78,975,000 | 1052 | 711 | -0.418760722 | INSL5,SGIP1,TCTEX1D1,WDR78 |
| 3 | 78,900,000 | 79,050,000 | 1053 | 548 | 0.293264958 | SGIP1,TCTEX1D1 |
| 3 | 78,975,000 | 79,125,000 | 1054 | 393 | 0.458869024 | SGIP1 |
| 3 | 79,050,000 | 79,200,000 | 1055 | 604 | 0.681727967 | SGIP1 |
| 3 | 79,125,000 | 79,275,000 | 1056 | 938 | 0.874197182 | SGIP1 |
| 3 | 79,200,000 | 79,350,000 | 1057 | 850 | 0.860767273 | PDE4B |
| 3 | 79,275,000 | 79,425,000 | 1058 | 799 | 0.708066149 | PDE4B |
| 3 | 79,350,000 | 79,500,000 | 1059 | 877 | 0.301587117 | PDE4B |
| 3 | 79,425,000 | 79,575,000 | 1060 | 938 | -0.056284616 | PDE4B |
| 3 | 79,500,000 | 79,650,000 | 1061 | 711 | 0.278628847 | MGC137454,PDE4B |
| 3 | 79,575,000 | 79,725,000 | 1062 | 560 | 0.829752368 | MGC137454,PDE4B |
| 3 | 79,650,000 | 79,800,000 | 1063 | 936 | 0.61245894 | MGC137454,PDE4B |
| 3 | 79,725,000 | 79,875,000 | 1064 | 860 | 0.469453461 | MGC137454,PDE4B |
| 3 | 79,800,000 | 79,950,000 | 1065 | 637 | 0.314063619 | MGC137454 |
| 3 | 79,875,000 | 80,025,000 | 1066 | 776 | 0.603243857 | |
| 3 | 79,950,000 | 80,100,000 | 1067 | 628 | 0.267404048 | OB-R |
| 3 | 80,025,000 | 80,175,000 | 1068 | 377 | -1.417823054 | OB-R |
| 3 | 80,100,000 | 80,250,000 | 1069 | 322 | -1.79102472 | LEPROT,OB-R |
| 3 | 80,175,000 | 80,325,000 | 1070 | 667 | -1.018249303 | DNAJC6,LEPROT |
| 3 | 80,250,000 | 80,400,000 | 1071 | 690 | -0.891123869 | DNAJC6,LEPROT |
| 3 | 80,325,000 | 80,475,000 | 1072 | 477 | 0.122316704 | DNAJC6 |
| 3 | 80,400,000 | 80,550,000 | 1073 | 421 | 0.917055419 | AK4 |
| 3 | 80,475,000 | 80,625,000 | 1074 | 327 | 0.220957269 | AK4 |
| 3 | 80,550,000 | 80,700,000 | 1075 | 431 | 0.479479921 | AK4 |
| 3 | 80,625,000 | 80,775,000 | 1076 | 518 | 0.86501541 | |
| 3 | 80,700,000 | 80,850,000 | 1077 | 644 | 0.868329326 | |
| 3 | 80,775,000 | 80,925,000 | 1078 | 884 | 0.955094597 | JAK1 |
| 3 | 80,850,000 | 81,000,000 | 1079 | 1360 | 0.536636779 | JAK1,RAVER2 |
| 3 | 80,925,000 | 81,075,000 | 1080 | 1462 | 0.12901626 | RAVER2 |
| 3 | 81,000,000 | 81,150,000 | 1081 | 1184 | -0.123319248 | CACHD1,RAVER2 |
| 3 | 81,075,000 | 81,225,000 | 1082 | 978 | -0.035568637 | CACHD1 |
| 3 | 81,150,000 | 81,300,000 | 1083 | 833 | -0.287238427 | CACHD1 |
| 3 | 81,225,000 | 81,375,000 | 1084 | 617 | -0.578210879 | |
| 3 | 81,300,000 | 81,450,000 | 1085 | 820 | 0.293875434 | |
| 3 | 81,375,000 | 81,525,000 | 1086 | 1112 | 0.294369964 | |
| 3 | 81,450,000 | 81,600,000 | 1087 | 1219 | 0.488046834 | UBE2U |
| 3 | 81,525,000 | 81,675,000 | 1088 | 1196 | 0.546510276 | ROR1,UBE2U |

| | | | | | | |
|---|------------|------------|------|-----|--------------|---|
| 3 | 81,600,000 | 81,750,000 | 1089 | 673 | 0.386067119 | ROR1,UBE2U |
| 3 | 81,675,000 | 81,825,000 | 1090 | 502 | 0.464805791 | ROR1 |
| 3 | 81,750,000 | 81,900,000 | 1091 | 486 | -0.392864878 | |
| 3 | 81,825,000 | 81,975,000 | 1092 | 313 | -3.282094494 | |
| 3 | 81,900,000 | 82,050,000 | 1093 | 259 | -3.672549053 | |
| 3 | 81,975,000 | 82,125,000 | 1094 | 389 | -1.25639826 | |
| 3 | 82,050,000 | 82,200,000 | 1095 | 523 | -0.064648045 | |
| 3 | 82,125,000 | 82,275,000 | 1096 | 468 | 0.452981952 | PGM1 |
| 3 | 82,200,000 | 82,350,000 | 1097 | 616 | 0.724647301 | EFCAB7,PGM1 |
| 3 | 82,275,000 | 82,425,000 | 1098 | 697 | 0.549297111 | EFCAB7,ITGB3BP,PGM1 |
| 3 | 82,350,000 | 82,500,000 | 1099 | 465 | -0.08536314 | ALG6,EFCAB7,ITGB3BP |
| 3 | 82,425,000 | 82,575,000 | 1100 | 442 | -0.404450876 | ALG6,ITGB3BP |
| 3 | 82,500,000 | 82,650,000 | 1101 | 488 | 0.398174109 | ALG6,FOXD3 |
| 3 | 82,575,000 | 82,725,000 | 1102 | 623 | 1.072381963 | FOXD3 |
| 3 | 82,650,000 | 82,800,000 | 1103 | 390 | 1.140437206 | |
| 3 | 82,725,000 | 82,875,000 | 1104 | 2 | 1.467400758 | |
| 3 | 82,800,000 | 82,950,000 | 1105 | 79 | 0.265000976 | |
| 3 | 82,875,000 | 83,025,000 | 1106 | 302 | -0.270426099 | |
| 3 | 82,950,000 | 83,100,000 | 1107 | 527 | -0.705872936 | |
| 3 | 83,025,000 | 83,175,000 | 1108 | 882 | -0.074968187 | |
| 3 | 83,100,000 | 83,250,000 | 1109 | 845 | 0.155791939 | |
| 3 | 83,175,000 | 83,325,000 | 1110 | 710 | -0.713570181 | ATG4C |
| 3 | 83,250,000 | 83,400,000 | 1111 | 655 | -0.632920622 | ATG4C |
| 3 | 83,325,000 | 83,475,000 | 1112 | 632 | 0.707104066 | ATG4C,ENSBTAG00000048179 |
| 3 | 83,400,000 | 83,550,000 | 1113 | 721 | 0.825037725 | ANGPTL3,DOCK7,ENSBTAG00000048179 |
| 3 | 83,475,000 | 83,625,000 | 1114 | 613 | -1.587275378 | ANGPTL3,DOCK7 |
| 3 | 83,550,000 | 83,700,000 | 1115 | 553 | -3.285948765 | DOCK7,USP1 |
| 3 | 83,625,000 | 83,775,000 | 1116 | 894 | -0.482600997 | DOCK7,USP1 |
| 3 | 83,700,000 | 83,850,000 | 1117 | 861 | 0.222821146 | KANK4 |
| 3 | 83,775,000 | 83,925,000 | 1118 | 429 | -1.658193721 | KANK4 |
| 3 | 83,850,000 | 84,000,000 | 1119 | 489 | -3.389267625 | KANK4,ENSBTAG00000045912 |
| 3 | 83,925,000 | 84,075,000 | 1120 | 483 | -1.772905877 | ENSBTAG00000045912,ENSBTAG00000047830 |
| 3 | 84,000,000 | 84,150,000 | 1121 | 706 | 0.485051561 | INADL,ENSBTAG00000046720,ENSBTAG00000047830 |
| 3 | 84,075,000 | 84,225,000 | 1122 | 834 | 0.633861489 | INADL,ENSBTAG00000046720 |
| 3 | 84,150,000 | 84,300,000 | 1123 | 514 | 0.634298851 | INADL |
| 3 | 84,225,000 | 84,375,000 | 1124 | 657 | 0.469405769 | INADL |
| 3 | 84,300,000 | 84,450,000 | 1125 | 744 | 0.411280231 | INADL |
| 3 | 84,375,000 | 84,525,000 | 1126 | 526 | -0.31683493 | INADL,TM2D1 |
| 3 | 84,450,000 | 84,600,000 | 1127 | 571 | -0.530399186 | INADL,TM2D1 |
| 3 | 84,525,000 | 84,675,000 | 1128 | 603 | 0.108540586 | TM2D1 |
| 3 | 84,600,000 | 84,750,000 | 1129 | 721 | 0.857015844 | NFIA |
| 3 | 84,675,000 | 84,825,000 | 1130 | 594 | 0.923103106 | NFIA |
| 3 | 84,750,000 | 84,900,000 | 1131 | 358 | 0.339391724 | NFIA |
| 3 | 84,825,000 | 84,975,000 | 1132 | 302 | 0.570697831 | NFIA |
| 3 | 84,900,000 | 85,050,000 | 1133 | 223 | 1.074848763 | NFIA |
| 3 | 84,975,000 | 85,125,000 | 1134 | 308 | 0.648535799 | NFIA |
| 3 | 85,050,000 | 85,200,000 | 1135 | 496 | 0.416335317 | NFIA |
| 3 | 85,125,000 | 85,275,000 | 1136 | 772 | 0.840355744 | NFIA |
| 3 | 85,200,000 | 85,350,000 | 1137 | 695 | 0.911433088 | |
| 3 | 85,275,000 | 85,425,000 | 1138 | 410 | 0.448909127 | |
| 3 | 85,350,000 | 85,500,000 | 1139 | 519 | 0.612404441 | |
| 3 | 85,425,000 | 85,575,000 | 1140 | 605 | 0.79113008 | |
| 3 | 85,500,000 | 85,650,000 | 1141 | 681 | 1.053740708 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 85,575,000 | 85,725,000 | 1142 | 715 | 1.153850599 | |
| 3 | 85,650,000 | 85,800,000 | 1143 | 854 | 0.816972796 | |
| 3 | 85,725,000 | 85,875,000 | 1144 | 826 | 0.6392703 | |
| 3 | 85,800,000 | 85,950,000 | 1145 | 628 | 0.473449668 | |
| 3 | 85,875,000 | 86,025,000 | 1146 | 918 | 0.037660122 | |
| 3 | 85,950,000 | 86,100,000 | 1147 | 802 | -0.028261656 | |
| 3 | 86,025,000 | 86,175,000 | 1148 | 702 | -0.160991158 | |
| 3 | 86,100,000 | 86,250,000 | 1149 | 861 | 0.300335887 | |
| 3 | 86,175,000 | 86,325,000 | 1150 | 724 | 0.873126183 | C1orf87 |
| 3 | 86,250,000 | 86,400,000 | 1151 | 789 | 0.756847698 | C1orf87,ENSBTAG00000038085 |
| 3 | 86,325,000 | 86,475,000 | 1152 | 1041 | 0.48081513 | C1orf87,ENSBTAG00000038085 |
| 3 | 86,400,000 | 86,550,000 | 1153 | 1083 | 0.001096434 | ENSBTAG00000000258,ENSBTAG00000013693,ENSBTAG0000038085 |
| 3 | 86,475,000 | 86,625,000 | 1154 | 797 | 0.05084182 | ENSBTAG00000000258,ENSBTAG00000010033,ENSBTAG0000013693 |
| 3 | 86,550,000 | 86,700,000 | 1155 | 582 | 0.528512859 | HOOK1,ENSBTAG00000010033 |
| 3 | 86,625,000 | 86,775,000 | 1156 | 572 | 0.441348893 | HOOK1,ENSBTAG00000010033 |
| 3 | 86,700,000 | 86,850,000 | 1157 | 638 | 0.340347897 | FGGY,HOOK1 |
| 3 | 86,775,000 | 86,925,000 | 1158 | 557 | 0.399274603 | FGGY |
| 3 | 86,850,000 | 87,000,000 | 1159 | 456 | 0.199403137 | FGGY |
| 3 | 86,925,000 | 87,075,000 | 1160 | 522 | -0.224368993 | FGGY |
| 3 | 87,000,000 | 87,150,000 | 1161 | 605 | -1.744790159 | FGGY |
| 3 | 87,075,000 | 87,225,000 | 1162 | 544 | -1.324213556 | FGGY |
| 3 | 87,150,000 | 87,300,000 | 1163 | 569 | 0.610910014 | FGGY |
| 3 | 87,225,000 | 87,375,000 | 1164 | 578 | 0.185184616 | FGGY |
| 3 | 87,300,000 | 87,450,000 | 1165 | 606 | 0.223014926 | |
| 3 | 87,375,000 | 87,525,000 | 1166 | 572 | 0.411655453 | |
| 3 | 87,450,000 | 87,600,000 | 1167 | 421 | 0.358122984 | |
| 3 | 87,525,000 | 87,675,000 | 1168 | 656 | 0.178975657 | |
| 3 | 87,600,000 | 87,750,000 | 1169 | 700 | 0.342953406 | |
| 3 | 87,675,000 | 87,825,000 | 1170 | 546 | 0.396631029 | |
| 3 | 87,750,000 | 87,900,000 | 1171 | 719 | 0.189018154 | JUN |
| 3 | 87,825,000 | 87,975,000 | 1172 | 587 | 0.239159237 | JUN,MYSM1 |
| 3 | 87,900,000 | 88,050,000 | 1173 | 537 | -0.848476573 | MYSM1,TACSTD2 |
| 3 | 87,975,000 | 88,125,000 | 1174 | 549 | -0.591313312 | OMA1,TACSTD2 |
| 3 | 88,050,000 | 88,200,000 | 1175 | 440 | 1.178496196 | OMA1 |
| 3 | 88,125,000 | 88,275,000 | 1176 | 440 | 1.131943686 | |
| 3 | 88,200,000 | 88,350,000 | 1177 | 766 | 0.095154678 | |
| 3 | 88,275,000 | 88,425,000 | 1178 | 828 | -0.189481063 | |
| 3 | 88,350,000 | 88,500,000 | 1179 | 517 | 0.57943353 | |
| 3 | 88,425,000 | 88,575,000 | 1180 | 635 | 1.028869139 | |
| 3 | 88,500,000 | 88,650,000 | 1181 | 984 | 0.668021534 | |
| 3 | 88,575,000 | 88,725,000 | 1182 | 1341 | 0.907425218 | |
| 3 | 88,650,000 | 88,800,000 | 1183 | 1304 | 0.884465346 | |
| 3 | 88,725,000 | 88,875,000 | 1184 | 963 | 0.103179848 | |
| 3 | 88,800,000 | 88,950,000 | 1185 | 797 | 0.08241361 | |
| 3 | 88,875,000 | 89,025,000 | 1186 | 925 | 0.660945974 | |
| 3 | 88,950,000 | 89,100,000 | 1187 | 1123 | 0.177102136 | |
| 3 | 89,025,000 | 89,175,000 | 1188 | 1302 | 0.549762119 | |
| 3 | 89,100,000 | 89,250,000 | 1189 | 1154 | 0.795815652 | |
| 3 | 89,175,000 | 89,325,000 | 1190 | 1180 | -0.318558057 | ENSBTAG00000024201 |
| 3 | 89,250,000 | 89,400,000 | 1191 | 1334 | -1.054850078 | ENSBTAG00000024201 |
| 3 | 89,325,000 | 89,475,000 | 1192 | 1034 | -0.723897807 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 89,400,000 | 89,550,000 | 1193 | 1013 | 0.482449602 | |
| 3 | 89,475,000 | 89,625,000 | 1194 | 985 | -0.31938539 | |
| 3 | 89,550,000 | 89,700,000 | 1195 | 678 | -1.371952714 | DAB1 |
| 3 | 89,625,000 | 89,775,000 | 1196 | 610 | -0.176625835 | C8B,DAB1 |
| 3 | 89,700,000 | 89,850,000 | 1197 | 806 | -0.445587163 | C8A,C8B |
| 3 | 89,775,000 | 89,925,000 | 1198 | 996 | -0.237359448 | C8A,C8B |
| 3 | 89,850,000 | 90,000,000 | 1199 | 904 | 0.258934551 | C1orf168,C8A |
| 3 | 89,925,000 | 90,075,000 | 1200 | 980 | 0.254423851 | C1orf168,PRKAA2 |
| 3 | 90,000,000 | 90,150,000 | 1201 | 750 | 0.604202822 | C1orf168,PRKAA2 |
| 3 | 90,075,000 | 90,225,000 | 1202 | 464 | 0.305067089 | PPAP2B,PRKAA2 |
| 3 | 90,150,000 | 90,300,000 | 1203 | 443 | 0.016377158 | PPAP2B |
| 3 | 90,225,000 | 90,375,000 | 1204 | 534 | -0.153232308 | PPAP2B |
| 3 | 90,300,000 | 90,450,000 | 1205 | 840 | 0.160542965 | |
| 3 | 90,375,000 | 90,525,000 | 1206 | 819 | 0.51658885 | |
| 3 | 90,450,000 | 90,600,000 | 1207 | 788 | 1.194556872 | |
| 3 | 90,525,000 | 90,675,000 | 1208 | 978 | 1.281433855 | |
| 3 | 90,600,000 | 90,750,000 | 1209 | 1075 | 0.827752987 | |
| 3 | 90,675,000 | 90,825,000 | 1210 | 753 | 0.256972217 | |
| 3 | 90,750,000 | 90,900,000 | 1211 | 662 | 0.39071021 | |
| 3 | 90,825,000 | 90,975,000 | 1212 | 819 | 0.60762111 | |
| 3 | 90,900,000 | 91,050,000 | 1213 | 1027 | 0.834401844 | |
| 3 | 90,975,000 | 91,125,000 | 1214 | 1337 | 0.698383258 | |
| 3 | 91,050,000 | 91,200,000 | 1215 | 837 | 0.234366668 | |
| 3 | 91,125,000 | 91,275,000 | 1216 | 571 | 0.842243918 | |
| 3 | 91,200,000 | 91,350,000 | 1217 | 858 | 0.768042401 | |
| 3 | 91,275,000 | 91,425,000 | 1218 | 822 | 0.780228952 | |
| 3 | 91,350,000 | 91,500,000 | 1219 | 775 | 0.642344191 | |
| 3 | 91,425,000 | 91,575,000 | 1220 | 797 | 0.497070368 | ENSBTAG00000046915 |
| 3 | 91,500,000 | 91,650,000 | 1221 | 982 | -0.225819491 | ENSBTAG00000046915 |
| 3 | 91,575,000 | 91,725,000 | 1222 | 889 | -0.673798795 | USP24 |
| 3 | 91,650,000 | 91,800,000 | 1223 | 481 | -0.369999581 | USP24 |
| 3 | 91,725,000 | 91,875,000 | 1224 | 470 | -0.656611763 | USP24 |
| 3 | 91,800,000 | 91,950,000 | 1225 | 976 | 0.790223851 | BSND,TMEM61,USP24 |
| 3 | 91,875,000 | 92,025,000 | 1226 | 963 | 1.190820482 | BSND,C1orf177,DHCR24,TMEM61 |
| 3 | 91,950,000 | 92,100,000 | 1227 | 827 | 1.081640632 | C1orf177,DHCR24,PARS2,TTC22 |
| 3 | 92,025,000 | 92,175,000 | 1228 | 869 | 0.711058157 | C1orf177,HEATR8,PARS2,TTC22,TTC4,ENSBTAG00000030623 |
| 3 | 92,100,000 | 92,250,000 | 1229 | 1024 | 0.624277423 | FAM151A,HEATR8,PARS2,TTC4,ENSBTAG00000030623 |
| 3 | 92,175,000 | 92,325,000 | 1230 | 1070 | 0.537599262 | ACOT11,FAM151A,ENSBTAG00000030623 |
| 3 | 92,250,000 | 92,400,000 | 1231 | 715 | 0.454054133 | ACOT11,FAM151A |
| 3 | 92,325,000 | 92,475,000 | 1232 | 524 | 0.820140667 | SSBP3 |
| 3 | 92,400,000 | 92,550,000 | 1233 | 414 | 0.706148132 | SSBP3 |
| 3 | 92,475,000 | 92,625,000 | 1234 | 824 | 0.750052975 | CYB5RL,MRPL37,SSBP3 |
| 3 | 92,550,000 | 92,700,000 | 1235 | 1231 | 0.954347329 | CDCP2,CYB5RL,MRPL37,SSBP3 |
| 3 | 92,625,000 | 92,775,000 | 1236 | 1152 | 0.660137642 | CDCP2,TCEANC2,TMEM59 |
| 3 | 92,700,000 | 92,850,000 | 1237 | 967 | 0.349396326 | C3H1ORF41,LDLRAD1,LRR42,TCEANC2,TMEM59 |
| 3 | 92,775,000 | 92,925,000 | 1238 | 899 | 0.405399274 | C3H1ORF41,DIO1,LDLRAD1,LRR42 |
| 3 | 92,850,000 | 93,000,000 | 1239 | 667 | -0.273859648 | C3H1ORF41,DIO1,NDC1 |
| 3 | 92,925,000 | 93,075,000 | 1240 | 549 | 0.494135051 | NDC1 |
| 3 | 93,000,000 | 93,150,000 | 1241 | 581 | 0.920279994 | NDC1 |
| 3 | 93,075,000 | 93,225,000 | 1242 | 625 | 0.829838491 | GLIS1 |
| 3 | 93,150,000 | 93,300,000 | 1243 | 662 | 0.626780843 | GLIS1 |
| 3 | 93,225,000 | 93,375,000 | 1244 | 559 | 0.563559994 | DMRTB1,GLIS1,ENSBTAG00000039540 |

| | | | | | | |
|---|------------|------------|------|-----|--------------|---|
| 3 | 93,300,000 | 93,450,000 | 1245 | 749 | 0.566965225 | DMRTB1,GLIS1,ENSBTAG00000039540 |
| 3 | 93,375,000 | 93,525,000 | 1246 | 808 | 0.676021277 | LRP8,ENSBTAG00000039540 |
| 3 | 93,450,000 | 93,600,000 | 1247 | 583 | 0.316112837 | C3H1orf123,LRP8,MAGOH |
| 3 | 93,525,000 | 93,675,000 | 1248 | 640 | -0.457446645 | C3H1orf123,CPT2,LRP8,MAGOH,SLC1A7 |
| 3 | 93,600,000 | 93,750,000 | 1249 | 590 | -0.290865395 | CPT2,PODN,SLC1A7 |
| 3 | 93,675,000 | 93,825,000 | 1250 | 573 | -0.213512151 | PODN,SLC1A7 |
| 3 | 93,750,000 | 93,900,000 | 1251 | 655 | -0.356302824 | PODN,SCP2 |
| 3 | 93,825,000 | 93,975,000 | 1252 | 534 | -0.42456036 | SCP2 |
| 3 | 93,900,000 | 94,050,000 | 1253 | 608 | -0.093514883 | ECHDC2,SCP2,ZYG11A,ENSBTAG00000047375 |
| 3 | 93,975,000 | 94,125,000 | 1254 | 676 | -1.01525426 | ECHDC2,ZYG11A,ZYG11B,ENSBTAG00000047375 |
| 3 | 94,050,000 | 94,200,000 | 1255 | 614 | -0.742877108 | ZYG11A,ZYG11B |
| 3 | 94,125,000 | 94,275,000 | 1256 | 589 | 0.685718348 | COA7,ZYG11B |
| 3 | 94,200,000 | 94,350,000 | 1257 | 417 | 0.7743973 | COA7,FAM159A,GPX7 |
| 3 | 94,275,000 | 94,425,000 | 1258 | 450 | 0.849517029 | FAM159A,GPX7,ZCCHC11 |
| 3 | 94,350,000 | 94,500,000 | 1259 | 562 | 0.54041146 | ZCCHC11 |
| 3 | 94,425,000 | 94,575,000 | 1260 | 439 | 0.639253246 | ORC1,PRPF38A,ZCCHC11 |
| 3 | 94,500,000 | 94,650,000 | 1261 | 387 | 0.693038849 | CC2D1B,ORC1,PRPF38A,ZCCHC11,ZFYVE9 |
| 3 | 94,575,000 | 94,725,000 | 1262 | 319 | 0.755903792 | CC2D1B,ORC1,ZFYVE9 |
| 3 | 94,650,000 | 94,800,000 | 1263 | 268 | 0.686491822 | ZFYVE9 |
| 3 | 94,725,000 | 94,875,000 | 1264 | 323 | 0.266969229 | BTF3L4,TXNDC12 |
| 3 | 94,800,000 | 94,950,000 | 1265 | 369 | 0.556650519 | BTF3L4,RAB3B,TXNDC12 |
| 3 | 94,875,000 | 95,025,000 | 1266 | 341 | 1.191440591 | RAB3B,TXNDC12 |
| 3 | 94,950,000 | 95,100,000 | 1267 | 272 | 1.362952575 | NRD1,RAB3B |
| 3 | 95,025,000 | 95,175,000 | 1268 | 256 | 1.38732289 | NRD1,OSBPL9 |
| 3 | 95,100,000 | 95,250,000 | 1269 | 257 | 1.231581099 | NRD1,OSBPL9 |
| 3 | 95,175,000 | 95,325,000 | 1270 | 393 | 1.148444845 | OSBPL9 |
| 3 | 95,250,000 | 95,400,000 | 1271 | 400 | 0.854899576 | EPS15,OSBPL9,ENSBTAG00000024153 |
| 3 | 95,325,000 | 95,475,000 | 1272 | 250 | 0.337061569 | EPS15,ENSBTAG00000024153 |
| 3 | 95,400,000 | 95,550,000 | 1273 | 285 | 0.587355737 | EPS15 |
| 3 | 95,475,000 | 95,625,000 | 1274 | 343 | 0.602059339 | EPS15,RNF11,TTC39A |
| 3 | 95,550,000 | 95,700,000 | 1275 | 346 | 0.579259354 | RNF11,TTC39A |
| 3 | 95,625,000 | 95,775,000 | 1276 | 340 | 0.728342924 | C3H1orf185 |
| 3 | 95,700,000 | 95,850,000 | 1277 | 462 | 1.232605743 | C3H1orf185 |
| 3 | 95,775,000 | 95,925,000 | 1278 | 409 | 1.307108684 | CDKN2C |
| 3 | 95,850,000 | 96,000,000 | 1279 | 232 | 0.948663262 | CDKN2C,FAF1 |
| 3 | 95,925,000 | 96,075,000 | 1280 | 224 | 0.545934112 | CDKN2C,FAF1 |
| 3 | 96,000,000 | 96,150,000 | 1281 | 252 | 0.473646268 | FAF1 |
| 3 | 96,075,000 | 96,225,000 | 1282 | 252 | 0.127282076 | FAF1 |
| 3 | 96,150,000 | 96,300,000 | 1283 | 293 | 0.434640644 | FAF1 |
| 3 | 96,225,000 | 96,375,000 | 1284 | 400 | 0.877140533 | FAF1 |
| 3 | 96,300,000 | 96,450,000 | 1285 | 588 | 0.986093926 | FAF1 |
| 3 | 96,375,000 | 96,525,000 | 1286 | 549 | 0.811415852 | DMRTA2,FAF1 |
| 3 | 96,450,000 | 96,600,000 | 1287 | 689 | 0.718344418 | DMRTA2 |
| 3 | 96,525,000 | 96,675,000 | 1288 | 681 | -0.029859036 | ELAVL4 |
| 3 | 96,600,000 | 96,750,000 | 1289 | 311 | -2.869066255 | ELAVL4 |
| 3 | 96,675,000 | 96,825,000 | 1290 | 321 | -0.738864326 | ELAVL4 |
| 3 | 96,750,000 | 96,900,000 | 1291 | 285 | 0.958756949 | |
| 3 | 96,825,000 | 96,975,000 | 1292 | 209 | 1.158749891 | |
| 3 | 96,900,000 | 97,050,000 | 1293 | 395 | 1.143821606 | |
| 3 | 96,975,000 | 97,125,000 | 1294 | 634 | 1.05188307 | |
| 3 | 97,050,000 | 97,200,000 | 1295 | 639 | 1.009375321 | |
| 3 | 97,125,000 | 97,275,000 | 1296 | 827 | 1.081241064 | |
| 3 | 97,200,000 | 97,350,000 | 1297 | 663 | 0.948302713 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 97,275,000 | 97,425,000 | 1298 | 508 | 0.435289844 | |
| 3 | 97,350,000 | 97,500,000 | 1299 | 888 | -0.159958571 | |
| 3 | 97,425,000 | 97,575,000 | 1300 | 1220 | 0.172714186 | |
| 3 | 97,500,000 | 97,650,000 | 1301 | 1072 | 0.107658256 | |
| 3 | 97,575,000 | 97,725,000 | 1302 | 634 | -0.538771757 | |
| 3 | 97,650,000 | 97,800,000 | 1303 | 536 | 0.306145608 | |
| 3 | 97,725,000 | 97,875,000 | 1304 | 582 | -0.114303807 | |
| 3 | 97,800,000 | 97,950,000 | 1305 | 541 | -0.594926726 | |
| 3 | 97,875,000 | 98,025,000 | 1306 | 576 | 0.391666445 | |
| 3 | 97,950,000 | 98,100,000 | 1307 | 550 | 0.501725711 | BEND5 |
| 3 | 98,025,000 | 98,175,000 | 1308 | 649 | 0.514474579 | BEND5 |
| 3 | 98,100,000 | 98,250,000 | 1309 | 851 | 0.234081583 | BEND5 |
| 3 | 98,175,000 | 98,325,000 | 1310 | 865 | 0.947655495 | AGBL4 |
| 3 | 98,250,000 | 98,400,000 | 1311 | 852 | 1.283638537 | AGBL4,SPATA6 |
| 3 | 98,325,000 | 98,475,000 | 1312 | 1206 | 0.990319374 | SPATA6 |
| 3 | 98,400,000 | 98,550,000 | 1313 | 1442 | 1.033164357 | SPATA6 |
| 3 | 98,475,000 | 98,625,000 | 1314 | 871 | 0.865670868 | SLC5A9,SPATA6 |
| 3 | 98,550,000 | 98,700,000 | 1315 | 445 | -0.126265974 | SKINT1,SLC5A9 |
| 3 | 98,625,000 | 98,775,000 | 1316 | 466 | -0.263138006 | SKINT1,ENSBTAG00000030553 |
| 3 | 98,700,000 | 98,850,000 | 1317 | 616 | 0.051335605 | ENSBTAG00000030553 |
| 3 | 98,775,000 | 98,925,000 | 1318 | 747 | 0.207683145 | |
| 3 | 98,850,000 | 99,000,000 | 1319 | 751 | -0.154582802 | |
| 3 | 98,925,000 | 99,075,000 | 1320 | 593 | -0.260018344 | |
| 3 | 99,000,000 | 99,150,000 | 1321 | 801 | -0.138769648 | |
| 3 | 99,075,000 | 99,225,000 | 1322 | 1017 | 0.004892752 | |
| 3 | 99,150,000 | 99,300,000 | 1323 | 618 | 0.29510858 | |
| 3 | 99,225,000 | 99,375,000 | 1324 | 312 | 0.008231885 | |
| 3 | 99,300,000 | 99,450,000 | 1325 | 335 | 0.159994524 | FOXD2 |
| 3 | 99,375,000 | 99,525,000 | 1326 | 536 | 0.514377191 | CMPK1,FOXD2 |
| 3 | 99,450,000 | 99,600,000 | 1327 | 646 | -0.376808039 | CMPK1,STIL |
| 3 | 99,525,000 | 99,675,000 | 1328 | 707 | -1.711161861 | CYP4X1,PDZK1IP1,STIL,TAL1 |
| 3 | 99,600,000 | 99,750,000 | 1329 | 664 | -0.585025047 | CYP4X1,PDZK1IP1,TAL1 |
| 3 | 99,675,000 | 99,825,000 | 1330 | 454 | 0.946717231 | CYP4X1,ENSBTAG00000037890 |
| 3 | 99,750,000 | 99,900,000 | 1331 | 439 | 1.255124244 | ENSBTAG00000000229,ENSBTAG00000037890 |
| 3 | 99,825,000 | 99,975,000 | 1332 | 549 | 0.79402763 | CYP4A22,CYP4B1,ENSBTAG00000000229 |
| 3 | 99,900,000 | 100,050,000 | 1333 | 690 | 0.884017838 | CYP4A22,CYP4B1,EFCAB14 |
| 3 | 99,975,000 | 100,125,000 | 1334 | 932 | 1.264116933 | ATPAF1,EFCAB14,MOB3C,TEX38 |
| 3 | 100,050,000 | 100,200,000 | 1335 | 1005 | 1.316523325 | ATPAF1,EFCAB14,KNCN,MKNK1,MOB3C,TEX38 |
| 3 | 100,125,000 | 100,275,000 | 1336 | 767 | 1.355597152 | DMBX1,KNCN,MKNK1 |
| 3 | 100,200,000 | 100,350,000 | 1337 | 503 | 1.087643189 | DMBX1,FAAH,ENSBTAG00000037858 |
| 3 | 100,275,000 | 100,425,000 | 1338 | 492 | 0.182677458 | FAAH,LRRC41,NSUN4,RAD54L,UQCRH,ENSBTAG00000001904,ENSBTAG00000037858 |
| 3 | 100,350,000 | 100,500,000 | 1339 | 771 | 0.21958913 | LRRC41,LURAP1,NSUN4,POMGNT1,RAD54L,TSPAN1,UQCRH,ENSBTAG00000019904 |
| 3 | 100,425,000 | 100,575,000 | 1340 | 928 | -0.018908956 | LURAP1,PIK3R3,POMGNT1,RAD54L,TSPAN1 |
| 3 | 100,500,000 | 100,650,000 | 1341 | 1025 | 0.026041254 | PIK3R3,TSPAN1 |
| 3 | 100,575,000 | 100,725,000 | 1342 | 850 | 0.513057811 | MAST2,PIK3R3 |
| 3 | 100,650,000 | 100,800,000 | 1343 | 615 | 0.541435745 | MAST2,PIK3R3 |
| 3 | 100,725,000 | 100,875,000 | 1344 | 571 | 0.527846519 | MAST2 |
| 3 | 100,800,000 | 100,950,000 | 1345 | 568 | 1.03953453 | IPP |
| 3 | 100,875,000 | 101,025,000 | 1346 | 480 | 0.877631183 | IPP,ENSBTAG00000008810 |
| 3 | 100,950,000 | 101,100,000 | 1347 | 351 | -0.181017363 | CCDC17,IPP,NASP,ENSBTAG00000008810 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 3 | 101,025,000 | 101,175,000 | 1348 | 341 | 0.063695114 | AKR1A1,CCDC17,MMACHC,NASP,PRDX1,ENSBTAG00000008810,ENSBTAG000000017029 |
| 3 | 101,100,000 | 101,250,000 | 1349 | 275 | 0.532148099 | AKR1A1,MMACHC,PRDX1,TESK2,ENSBTAG000000017029 |
| 3 | 101,175,000 | 101,325,000 | 1350 | 367 | 0.758727264 | MUTYH,TESK2,TOE1,ENSBTAG000000017029 |
| 3 | 101,250,000 | 101,400,000 | 1351 | 637 | 0.898791053 | HPDL,MUTYH,RPS27L,TESK2,TOE1 |
| 3 | 101,325,000 | 101,475,000 | 1352 | 805 | 0.762713216 | HPDL,MUTYH,RPS27L |
| 3 | 101,400,000 | 101,550,000 | 1353 | 724 | 0.348940372 | |
| 3 | 101,475,000 | 101,625,000 | 1354 | 545 | 0.008034654 | HECTD3,UROD,ZSWIM5 |
| 3 | 101,550,000 | 101,700,000 | 1355 | 427 | 0.456510739 | EIF2B3,HECTD3,UROD,ZSWIM5 |
| 3 | 101,625,000 | 101,775,000 | 1356 | 475 | -0.204122963 | EIF2B3,HECTD3,PTCH2 |
| 3 | 101,700,000 | 101,850,000 | 1357 | 484 | 0.118130318 | BEST4,BTBD19,EIF2B3,KIF2C,PLK3,PTCH2,RPS8,TCTEX1D4 |
| 3 | 101,775,000 | 101,925,000 | 1358 | 544 | 0.83153538 | BEST4,BTBD19,C1orf228,KIF2C,PLK3,PTCH2,RPS8,TCTEX1D4 |
| 3 | 101,850,000 | 102,000,000 | 1359 | 585 | 0.396822466 | C1orf228,KIF2C,RNF220,TMEM53 |
| 3 | 101,925,000 | 102,075,000 | 1360 | 513 | 0.39106238 | C1orf228,RNF220,TMEM53 |
| 3 | 102,000,000 | 102,150,000 | 1361 | 754 | -0.625135351 | RNF220 |
| 3 | 102,075,000 | 102,225,000 | 1362 | 949 | -0.292152045 | RNF220 |
| 3 | 102,150,000 | 102,300,000 | 1363 | 827 | 0.860113898 | ERI3,RNF220 |
| 3 | 102,225,000 | 102,375,000 | 1364 | 775 | 0.942426301 | ERI3,RNF220 |
| 3 | 102,300,000 | 102,450,000 | 1365 | 698 | 1.10926042 | DMAP1,ERI3 |
| 3 | 102,375,000 | 102,525,000 | 1366 | 1239 | 0.922943371 | DMAP1,ERI3 |
| 3 | 102,450,000 | 102,600,000 | 1367 | 1248 | 0.32074982 | ENSBTAG00000005143,ENSBTAG000000047871 |
| 3 | 102,525,000 | 102,675,000 | 1368 | 503 | -1.491696989 | ATP6V0B,B4GALT2,CCDC24,ENSBTAG00000005143,ENSBTAG00000008690,ENSBTAG000000047871 |
| 3 | 102,600,000 | 102,750,000 | 1369 | 546 | -1.864062205 | ARTN,ATP6V0B,B4GALT2,CCDC24,DPH2,IPO13,SIAT6,ENSBTAG00000008690 |
| 3 | 102,675,000 | 102,825,000 | 1370 | 942 | -0.536819191 | ARTN,DPH2,IPO13,SIAT6 |
| 3 | 102,750,000 | 102,900,000 | 1371 | 961 | 0.634592011 | |
| 3 | 102,825,000 | 102,975,000 | 1372 | 609 | 1.216346735 | KDM4A |
| 3 | 102,900,000 | 103,050,000 | 1373 | 528 | 1.247354326 | KDM4A,PTPRF |
| 3 | 102,975,000 | 103,125,000 | 1374 | 870 | 1.154661176 | PTPRF |
| 3 | 103,050,000 | 103,200,000 | 1375 | 1165 | 0.99733861 | HYI,PTPRF,SZT2 |
| 3 | 103,125,000 | 103,275,000 | 1376 | 936 | 0.317210877 | CDC20,ELOVL1,HYI,MED8,MPL,SZT2 |
| 3 | 103,200,000 | 103,350,000 | 1377 | 751 | 0.466101587 | C3H1ORF210,CDC20,ELOVL1,HPRT1,MED8,MPL,SZT2,TIE1,TMEM125 |
| 3 | 103,275,000 | 103,425,000 | 1378 | 802 | 0.474005299 | C3H1ORF210,CFAP57,EBNA1BP2,HPRT1,TIE1,TMEM125 |
| 3 | 103,350,000 | 103,500,000 | 1379 | 907 | -1.623166428 | CFAP57,EBNA1BP2,FAM183A,ENSBTAG000000030386,ENSBTAG000000037432 |
| 3 | 103,425,000 | 103,575,000 | 1380 | 1189 | -4.661820669 | EBNA1BP2,FAM183A,ENSBTAG00000001397,ENSBTAG000000030385,ENSBTAG000000030386,ENSBTAG000000037432 |
| 3 | 103,500,000 | 103,650,000 | 1381 | 1325 | -2.114583997 | ENSBTAG00000001397,ENSBTAG000000023748,ENSBTAG000000030385,ENSBTAG000000030386,ENSBTAG00000003770,ENSBTAG000000037810 |
| 3 | 103,575,000 | 103,725,000 | 1382 | 787 | 0.184291248 | ENSBTAG00000007627,ENSBTAG00000012414,ENSBTAG00000023748,ENSBTAG00000037770,ENSBTAG00000037810 |
| 3 | 103,650,000 | 103,800,000 | 1383 | 592 | 1.063226086 | ENSBTAG00000007627,ENSBTAG00000012414 |
| 3 | 103,725,000 | 103,875,000 | 1384 | 628 | 1.228816098 | |
| 3 | 103,800,000 | 103,950,000 | 1385 | 440 | 0.765072882 | SLC2A1,ENSBTAG00000023986 |
| 3 | 103,875,000 | 104,025,000 | 1386 | 435 | 0.141225219 | SLC2A1,ZNF691,ENSBTAG00000023986 |
| 3 | 103,950,000 | 104,100,000 | 1387 | 373 | -0.17884291 | C3H1ORF50,CCDC23,CLDN19,LEPRE1,ZNF691,ENSBTAG0000017387 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 104,025,000 | 104,175,000 | 1388 | 367 | -0.359175414 | C3H1ORF50,CCDC23,CCDC30,CLDN19,LEPRE1,PPIH,YBX1,ENSBTAG00000017387 |
| 3 | 104,100,000 | 104,250,000 | 1389 | 370 | -1.078422347 | CCDC30,PPIH,YBX1 |
| 3 | 104,175,000 | 104,325,000 | 1390 | 433 | -0.727900624 | CCDC30,PPCS,ZMYND12 |
| 3 | 104,250,000 | 104,400,000 | 1391 | 564 | 0.290289941 | CCDC30,PPCS,RIMKLA,ZMYND12 |
| 3 | 104,325,000 | 104,475,000 | 1392 | 680 | 0.220365065 | RIMKLA,ZMYND12 |
| 3 | 104,400,000 | 104,550,000 | 1393 | 520 | -0.23336075 | FOXJ3,RIMKLA |
| 3 | 104,475,000 | 104,625,000 | 1394 | 691 | -0.065835281 | FOXJ3,GUCA2A,GUCA2B |
| 3 | 104,550,000 | 104,700,000 | 1395 | 1032 | 0.576228264 | FOXJ3,GUCA2A,GUCA2B |
| 3 | 104,625,000 | 104,775,000 | 1396 | 832 | -1.338614255 | |
| 3 | 104,700,000 | 104,850,000 | 1397 | 573 | -2.89246286 | |
| 3 | 104,775,000 | 104,925,000 | 1398 | 622 | 0.237033589 | |
| 3 | 104,850,000 | 105,000,000 | 1399 | 685 | -0.187746532 | |
| 3 | 104,925,000 | 105,075,000 | 1400 | 635 | -0.942201248 | |
| 3 | 105,000,000 | 105,150,000 | 1401 | 586 | -0.037053098 | |
| 3 | 105,075,000 | 105,225,000 | 1402 | 547 | -0.312051442 | HIVEP3 |
| 3 | 105,150,000 | 105,300,000 | 1403 | 619 | -0.278748438 | EDN2,HIVEP3 |
| 3 | 105,225,000 | 105,375,000 | 1404 | 569 | 0.120854569 | EDN2,HIVEP3 |
| 3 | 105,300,000 | 105,450,000 | 1405 | 421 | -0.47105054 | EDN2,FOXO6 |
| 3 | 105,375,000 | 105,525,000 | 1406 | 511 | -1.221105286 | FOXO6 |
| 3 | 105,450,000 | 105,600,000 | 1407 | 566 | -1.714684323 | |
| 3 | 105,525,000 | 105,675,000 | 1408 | 414 | -3.813397209 | SCMH1 |
| 3 | 105,600,000 | 105,750,000 | 1409 | 325 | -3.767123275 | SCMH1 |
| 3 | 105,675,000 | 105,825,000 | 1410 | 376 | -1.609272192 | CTPS,SCMH1,SLFNL1 |
| 3 | 105,750,000 | 105,900,000 | 1411 | 435 | -0.655575454 | CTPS,SCMH1,SLFNL1 |
| 3 | 105,825,000 | 105,975,000 | 1412 | 365 | 0.255012389 | CITED4,CTPS |
| 3 | 105,900,000 | 106,050,000 | 1413 | 397 | 0.85724698 | CITED4,KCNQ4,NFYC |
| 3 | 105,975,000 | 106,125,000 | 1414 | 425 | 1.265749076 | KCNQ4,NFYC |
| 3 | 106,050,000 | 106,200,000 | 1415 | 760 | -0.114462238 | NFYC,RIMS3,ENSBTAG00000034332 |
| 3 | 106,125,000 | 106,275,000 | 1416 | 1000 | -0.319143496 | EXO5,RIMS3,ZFP69,ZNF684,ENSBTAG00000034332 |
| 3 | 106,200,000 | 106,350,000 | 1417 | 633 | -0.414977392 | EXO5,SMAP2,ZFP69,ZNF684 |
| 3 | 106,275,000 | 106,425,000 | 1418 | 787 | -0.538621693 | COL9A2,SMAP2,ZFP69 |
| 3 | 106,350,000 | 106,500,000 | 1419 | 1141 | -0.618319259 | COL9A2,RLF,SMAP2,TMCO2,ZMPSTE24 |
| 3 | 106,425,000 | 106,575,000 | 1420 | 949 | -0.449642367 | RLF,TMCO2,ZMPSTE24 |
| 3 | 106,500,000 | 106,650,000 | 1421 | 1028 | 0.56196905 | CAP1,CLN1,RLF |
| 3 | 106,575,000 | 106,725,000 | 1422 | 1147 | 0.730200029 | CAP1,CLN1,MFSD2,RLF |
| 3 | 106,650,000 | 106,800,000 | 1423 | 930 | 0.620754953 | CAP1,MFSD2,MYCL |
| 3 | 106,725,000 | 106,875,000 | 1424 | 1057 | 0.894538274 | MFSD2,MYCL,TRIT1 |
| 3 | 106,800,000 | 106,950,000 | 1425 | 1548 | 0.888386009 | PPIE,TRIT1,ENSBTAG00000017892 |
| 3 | 106,875,000 | 107,025,000 | 1426 | 1239 | 0.712921776 | HPCAL4,NT5C1A,PPIE,ENSBTAG00000017892 |
| 3 | 106,950,000 | 107,100,000 | 1427 | 701 | 0.960930609 | HEYL,HPCAL4,NT5C1A,PABPC4 |
| 3 | 107,025,000 | 107,175,000 | 1428 | 735 | 1.116937919 | HEYL,PABPC4,ENSBTAG00000046807 |
| 3 | 107,100,000 | 107,250,000 | 1429 | 805 | 0.702614238 | KIAA0754,MACF1,ENSBTAG00000046807 |
| 3 | 107,175,000 | 107,325,000 | 1430 | 795 | 0.360425671 | KIAA0754,MACF1 |
| 3 | 107,250,000 | 107,400,000 | 1431 | 798 | 0.128989603 | MACF1 |
| 3 | 107,325,000 | 107,475,000 | 1432 | 971 | 0.35941983 | MACF1 |
| 3 | 107,400,000 | 107,550,000 | 1433 | 944 | 0.780028529 | ENSBTAG00000047038 |
| 3 | 107,475,000 | 107,625,000 | 1434 | 853 | 0.904017781 | AKIRIN1,NDUFS5,ENSBTAG00000047038 |
| 3 | 107,550,000 | 107,700,000 | 1435 | 921 | 0.927680987 | AKIRIN1,GJA9,NDUFS5,RHBDL2 |
| 3 | 107,625,000 | 107,775,000 | 1436 | 776 | 0.89975073 | GJA9,MYCBP,RHBDL2,RRAGC |
| 3 | 107,700,000 | 107,850,000 | 1437 | 624 | 0.753356363 | MYCBP,RRAGC |
| 3 | 107,775,000 | 107,925,000 | 1438 | 572 | 0.353679427 | |
| 3 | 107,850,000 | 108,000,000 | 1439 | 638 | 0.035675035 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 3 | 107,925,000 | 108,075,000 | 1440 | 683 | -0.122719782 | |
| 3 | 108,000,000 | 108,150,000 | 1441 | 786 | -1.76212349 | |
| 3 | 108,075,000 | 108,225,000 | 1442 | 921 | -1.064362463 | |
| 3 | 108,150,000 | 108,300,000 | 1443 | 513 | 0.603936952 | |
| 3 | 108,225,000 | 108,375,000 | 1444 | 459 | -0.235437935 | |
| 3 | 108,300,000 | 108,450,000 | 1445 | 706 | -0.704148998 | |
| 3 | 108,375,000 | 108,525,000 | 1446 | 496 | -0.473938877 | POU3F1 |
| 3 | 108,450,000 | 108,600,000 | 1447 | 284 | 0.412397508 | FHL3,INPP5B,POU3F1,SF3A3,UTP11L |
| 3 | 108,525,000 | 108,675,000 | 1448 | 395 | 0.246524501 | FHL3,INPP5B,MTF1,SF3A3,UTP11L |
| 3 | 108,600,000 | 108,750,000 | 1449 | 387 | 0.085781005 | C1orf122,EPHA10,INPP5B,MANEAL,MTF1,YRDC |
| 3 | 108,675,000 | 108,825,000 | 1450 | 431 | -0.558394077 | C1orf122,CDCA8,EPHA10,MANEAL,MGC166151,MTF1,YRDC |
| 3 | 108,750,000 | 108,900,000 | 1451 | 490 | -1.066190597 | CDCA8,EPHA10,GNL2,MGC166151,RSPO1 |
| 3 | 108,825,000 | 108,975,000 | 1452 | 345 | -0.555352537 | DNALI1,GNL2,MEAF6,RSPO1,SNIP1 |
| 3 | 108,900,000 | 109,050,000 | 1453 | 433 | -0.004663082 | DNALI1,GNL2,MEAF6,SNIP1,ZC3H12A |
| 3 | 108,975,000 | 109,125,000 | 1454 | 705 | 0.448172898 | MEAF6,ZC3H12A |
| 3 | 109,050,000 | 109,200,000 | 1455 | 865 | 0.611598753 | |
| 3 | 109,125,000 | 109,275,000 | 1456 | 789 | 0.45545632 | |
| 3 | 109,200,000 | 109,350,000 | 1457 | 1036 | -0.444187633 | |
| 3 | 109,275,000 | 109,425,000 | 1458 | 999 | -0.599116821 | |
| 3 | 109,350,000 | 109,500,000 | 1459 | 840 | 0.571305944 | |
| 3 | 109,425,000 | 109,575,000 | 1460 | 795 | 0.72511083 | GRIK3 |
| 3 | 109,500,000 | 109,650,000 | 1461 | 622 | 0.100268596 | GRIK3 |
| 3 | 109,575,000 | 109,725,000 | 1462 | 709 | 0.064194955 | GRIK3 |
| 3 | 109,650,000 | 109,800,000 | 1463 | 673 | 0.370561243 | GRIK3 |
| 3 | 109,725,000 | 109,875,000 | 1464 | 715 | 0.097476127 | |
| 3 | 109,800,000 | 109,950,000 | 1465 | 754 | 0.439691097 | |
| 3 | 109,875,000 | 110,025,000 | 1466 | 767 | 0.7142662 | CSF3R,ENSBTAG00000024097 |
| 3 | 109,950,000 | 110,100,000 | 1467 | 915 | -0.210650597 | CSF3R,LSM10,OSCP1,STK40,ENSBTAG00000024097 |
| 3 | 110,025,000 | 110,175,000 | 1468 | 744 | -0.411415003 | EVA1B,LSM10,OSCP1,STK40,THRAP3,ENSBTAG00000038617 |
| 3 | 110,100,000 | 110,250,000 | 1469 | 552 | 0.065832625 | EVA1B,MAP7D1,STK40,THRAP3,ENSBTAG00000038617 |
| 3 | 110,175,000 | 110,325,000 | 1470 | 561 | 0.42259234 | ADPRHL2,COL8A2,MAP7D1,TEKT2,THRAP3,TRAPPC3 |
| 3 | 110,250,000 | 110,400,000 | 1471 | 407 | 1.068021688 | ADPRHL2,AGO3,COL8A2,TEKT2,TRAPPC3 |
| 3 | 110,325,000 | 110,475,000 | 1472 | 366 | 1.117278556 | AGO3,EIF2C1 |
| 3 | 110,400,000 | 110,550,000 | 1473 | 342 | 0.363566644 | AGO3,AGO4,EIF2C1 |
| 3 | 110,475,000 | 110,625,000 | 1474 | 341 | -0.677072043 | AGO4,CLSPN,EIF2C1 |
| 3 | 110,550,000 | 110,700,000 | 1475 | 471 | -1.263219898 | AGO4,C1orf216,CLSPN |
| 3 | 110,625,000 | 110,775,000 | 1476 | 612 | -0.564324207 | C1orf216,CLSPN,PSMB2,TFAP2E |
| 3 | 110,700,000 | 110,850,000 | 1477 | 482 | 0.586093856 | KIAA0319L,NCDN,PSMB2,TFAP2E |
| 3 | 110,775,000 | 110,925,000 | 1478 | 351 | 0.766511664 | KIAA0319L,NCDN,TFAP2E,ZMYM4 |
| 3 | 110,850,000 | 111,000,000 | 1479 | 449 | 0.571088254 | KIAA0319L,ZMYM4 |
| 3 | 110,925,000 | 111,075,000 | 1480 | 443 | 0.450150705 | ZMYM4 |
| 3 | 111,000,000 | 111,150,000 | 1481 | 387 | 0.563783993 | SFPQ |
| 3 | 111,075,000 | 111,225,000 | 1482 | 466 | 0.528813491 | SFPQ,ZMYM1 |
| 3 | 111,150,000 | 111,300,000 | 1483 | 551 | 0.280583792 | ZMYM1,ZMYM6NB,ENSBTAG00000021948 |
| 3 | 111,225,000 | 111,375,000 | 1484 | 401 | 0.258400989 | ZMYM6NB,ENSBTAG00000021948 |
| 3 | 111,300,000 | 111,450,000 | 1485 | 431 | 0.339979967 | DLGAP3,SMIM12 |
| 3 | 111,375,000 | 111,525,000 | 1486 | 738 | -0.716170651 | DLGAP3,GJA4,GJB3,GJB4,GJB5,SMIM12 |
| 3 | 111,450,000 | 111,600,000 | 1487 | 865 | -0.570618473 | GJA4,GJB3,GJB4,GJB5 |
| 3 | 111,525,000 | 111,675,000 | 1488 | 595 | 0.152658967 | GJB5 |
| 3 | 111,600,000 | 111,750,000 | 1489 | 689 | 0.25154371 | |
| 3 | 111,675,000 | 111,825,000 | 1490 | 873 | 0.061124624 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 3 | 111,750,000 | 111,900,000 | 1491 | 641 | 0.246471796 | |
| 3 | 111,825,000 | 111,975,000 | 1492 | 506 | 0.667240268 | |
| 3 | 111,900,000 | 112,050,000 | 1493 | 445 | 0.035941175 | |
| 3 | 111,975,000 | 112,125,000 | 1494 | 750 | 0.479392832 | |
| 3 | 112,050,000 | 112,200,000 | 1495 | 880 | 0.84336447 | C1orf94 |
| 3 | 112,125,000 | 112,275,000 | 1496 | 768 | 0.903519583 | C1orf94 |
| 3 | 112,200,000 | 112,350,000 | 1497 | 692 | 0.475618581 | |
| 3 | 112,275,000 | 112,425,000 | 1498 | 833 | -0.80828708 | |
| 3 | 112,350,000 | 112,500,000 | 1499 | 920 | -0.429830908 | |
| 3 | 112,425,000 | 112,575,000 | 1500 | 940 | 1.041543102 | CSMD2,HMGB4 |
| 3 | 112,500,000 | 112,650,000 | 1501 | 1008 | 1.238574853 | CSMD2,HMGB4 |
| 3 | 112,575,000 | 112,725,000 | 1502 | 793 | 1.188907231 | CSMD2 |
| 3 | 112,650,000 | 112,800,000 | 1503 | 807 | -0.599319246 | CSMD2 |
| 3 | 112,725,000 | 112,875,000 | 1504 | 1241 | -0.892144023 | CSMD2 |
| 3 | 112,800,000 | 112,950,000 | 1505 | 1298 | -0.063542775 | CSMD2,ZSCAN20 |
| 3 | 112,875,000 | 113,025,000 | 1506 | 759 | 0.255929103 | CSMD2,EFHD1,ZSCAN20 |
| 3 | 112,950,000 | 113,100,000 | 1507 | 478 | 1.355968671 | EFHD1,GIGYF2 |
| 3 | 113,025,000 | 113,175,000 | 1508 | 327 | 1.301750178 | EFHD1,GIGYF2,KCNJ13 |
| 3 | 113,100,000 | 113,250,000 | 1509 | 354 | 1.207884711 | C2orf82,GIGYF2,KCNJ13,NGEF |
| 3 | 113,175,000 | 113,325,000 | 1510 | 598 | 0.830236894 | C2orf82,GIGYF2,NGEF |
| 3 | 113,250,000 | 113,400,000 | 1511 | 837 | -0.186107027 | NEU2,NGEF |
| 3 | 113,325,000 | 113,475,000 | 1512 | 813 | -0.422689381 | INPP5D,NEU2 |
| 3 | 113,400,000 | 113,550,000 | 1513 | 685 | -0.202680498 | INPP5D,ENSBTAG00000030239 |
| 3 | 113,475,000 | 113,625,000 | 1514 | 574 | -0.494693001 | ATG16L1,INPP5D,ENSBTAG00000030239 |
| 3 | 113,550,000 | 113,700,000 | 1515 | 518 | 0.443858645 | ATG16L1,SAG |
| 3 | 113,625,000 | 113,775,000 | 1516 | 586 | 0.665861652 | DGKH,SAG |
| 3 | 113,700,000 | 113,850,000 | 1517 | 643 | 0.886798348 | DGKH,USP40 |
| 3 | 113,775,000 | 113,925,000 | 1518 | 475 | 0.891410376 | DGKH,UGT1A1,USP40 |
| 3 | 113,850,000 | 114,000,000 | 1519 | 438 | 1.056592542 | UGT1A1,USP40,ENSBTAG00000046353,ENSBTAG00000048275 |
| 3 | 113,925,000 | 114,075,000 | 1520 | 530 | 0.3949828 | DNAJB3,MROH2A,UGT1A1,ENSBTAG00000046353,ENSBTAG00000048212,ENSBTAG00000048275 |
| 3 | 114,000,000 | 114,150,000 | 1521 | 431 | -0.914753515 | DNAJB3,HJURP,MROH2A,UGT1A1,ENSBTAG00000048212 |
| 3 | 114,075,000 | 114,225,000 | 1522 | 1109 | -0.156040774 | HJURP,MROH2A,TRPM8 |
| 3 | 114,150,000 | 114,300,000 | 1523 | 1319 | -0.169482239 | TRPM8 |
| 3 | 114,225,000 | 114,375,000 | 1524 | 1205 | 0.142907385 | SPP2,TRPM8 |
| 3 | 114,300,000 | 114,450,000 | 1525 | 1613 | -0.149397508 | SPP2 |
| 3 | 114,375,000 | 114,525,000 | 1526 | 1334 | -0.046989204 | |
| 3 | 114,450,000 | 114,600,000 | 1527 | 921 | 0.555586836 | |
| 3 | 114,525,000 | 114,675,000 | 1528 | 877 | 0.373465865 | |
| 3 | 114,600,000 | 114,750,000 | 1529 | 977 | 0.890789787 | ARL4C |
| 3 | 114,675,000 | 114,825,000 | 1530 | 1468 | 0.859306859 | ARL4C |
| 3 | 114,750,000 | 114,900,000 | 1531 | 1310 | 0.721472714 | |
| 3 | 114,825,000 | 114,975,000 | 1532 | 893 | 0.667934188 | |
| 3 | 114,900,000 | 115,050,000 | 1533 | 792 | 0.511954574 | |
| 3 | 114,975,000 | 115,125,000 | 1534 | 681 | 0.191200579 | |
| 3 | 115,050,000 | 115,200,000 | 1535 | 706 | -0.244993547 | |
| 3 | 115,125,000 | 115,275,000 | 1536 | 1324 | 0.735154626 | SH3BP4 |
| 3 | 115,200,000 | 115,350,000 | 1537 | 1446 | 0.39585242 | SH3BP4 |
| 3 | 115,275,000 | 115,425,000 | 1538 | 885 | -0.58751629 | |
| 3 | 115,350,000 | 115,500,000 | 1539 | 846 | -0.048446619 | |
| 3 | 115,425,000 | 115,575,000 | 1540 | 755 | -0.451254478 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 115,500,000 | 115,650,000 | 1541 | 965 | -1.036704541 | |
| 3 | 115,575,000 | 115,725,000 | 1542 | 1114 | -0.375475482 | |
| 3 | 115,650,000 | 115,800,000 | 1543 | 812 | 0.740880657 | |
| 3 | 115,725,000 | 115,875,000 | 1544 | 695 | 0.570428464 | AGAP1 |
| 3 | 115,800,000 | 115,950,000 | 1545 | 962 | 0.538875478 | AGAP1 |
| 3 | 115,875,000 | 116,025,000 | 1546 | 1352 | 0.488702947 | AGAP1 |
| 3 | 115,950,000 | 116,100,000 | 1547 | 1308 | 0.141921765 | AGAP1 |
| 3 | 116,025,000 | 116,175,000 | 1548 | 738 | 0.057133237 | AGAP1 |
| 3 | 116,100,000 | 116,250,000 | 1549 | 649 | 0.478585454 | AGAP1 |
| 3 | 116,175,000 | 116,325,000 | 1550 | 602 | 0.497144511 | AGAP1,ASB18,GBX2 |
| 3 | 116,250,000 | 116,400,000 | 1551 | 731 | -0.044447603 | ASB18,GBX2 |
| 3 | 116,325,000 | 116,475,000 | 1552 | 1275 | -0.325910043 | ASB18,IQCA1 |
| 3 | 116,400,000 | 116,550,000 | 1553 | 923 | -0.396894632 | IQCA1 |
| 3 | 116,475,000 | 116,625,000 | 1554 | 718 | 0.173474875 | IQCA1 |
| 3 | 116,550,000 | 116,700,000 | 1555 | 1418 | 0.629345742 | CXCR7,IQCA1 |
| 3 | 116,625,000 | 116,775,000 | 1556 | 1252 | 0.856582379 | CXCR7 |
| 3 | 116,700,000 | 116,850,000 | 1557 | 1114 | 1.063577906 | |
| 3 | 116,775,000 | 116,925,000 | 1558 | 1521 | 1.041257167 | |
| 3 | 116,850,000 | 117,000,000 | 1559 | 1307 | 0.305380188 | |
| 3 | 116,925,000 | 117,075,000 | 1560 | 1403 | 0.11586419 | |
| 3 | 117,000,000 | 117,150,000 | 1561 | 1712 | 0.820014028 | |
| 3 | 117,075,000 | 117,225,000 | 1562 | 1390 | 0.833174384 | COPS8 |
| 3 | 117,150,000 | 117,300,000 | 1563 | 1209 | 0.661067236 | COPS8 |
| 3 | 117,225,000 | 117,375,000 | 1564 | 1106 | 0.455328745 | |
| 3 | 117,300,000 | 117,450,000 | 1565 | 839 | 0.639335915 | COL6A3 |
| 3 | 117,375,000 | 117,525,000 | 1566 | 836 | 0.757698995 | COL6A3,RPS16 |
| 3 | 117,450,000 | 117,600,000 | 1567 | 1240 | 0.189244013 | COL6A3,MLPH,RPS16 |
| 3 | 117,525,000 | 117,675,000 | 1568 | 1626 | 0.017520535 | MLPH,PRLH,RAB17 |
| 3 | 117,600,000 | 117,750,000 | 1569 | 1683 | 0.101264085 | LRRFIP1,MLPH,PRLH,RAB17 |
| 3 | 117,675,000 | 117,825,000 | 1570 | 1259 | 0.200022835 | LRRFIP1 |
| 3 | 117,750,000 | 117,900,000 | 1571 | 1053 | 0.509683593 | LRRFIP1,RBM44 |
| 3 | 117,825,000 | 117,975,000 | 1572 | 1213 | 0.471584447 | LRRFIP1,RAMP1,RBM44,ENSBTAG00000045970 |
| 3 | 117,900,000 | 118,050,000 | 1573 | 1116 | 0.637438044 | RAMP1,RBM44,SCLY,UBE2F,ENSBTAG00000045970 |
| 3 | 117,975,000 | 118,125,000 | 1574 | 1027 | 0.878358239 | ESPNL,FAM132B,SCLY,UBE2F |
| 3 | 118,050,000 | 118,200,000 | 1575 | 915 | 0.276238457 | ESPNL,FAM132B,HES6,ILKAP,SCLY,ENSBTAG0000001879 |
| 3 | 118,125,000 | 118,275,000 | 1576 | 1048 | -0.08914173 | FAM132B,HES6,ILKAP,TRAF3IP1,ENSBTAG0000001879,ENSBTAG00000045685 |
| 3 | 118,200,000 | 118,350,000 | 1577 | 1225 | -0.017434664 | TRAF3IP1,ENSBTAG0000001879,ENSBTAG00000045685 |
| 3 | 118,275,000 | 118,425,000 | 1578 | 1064 | -0.077945912 | ASB1,TRAF3IP1 |
| 3 | 118,350,000 | 118,500,000 | 1579 | 963 | 0.30574808 | ASB1 |
| 3 | 118,425,000 | 118,575,000 | 1580 | 1149 | 1.039189048 | |
| 3 | 118,500,000 | 118,650,000 | 1581 | 1140 | 0.592563601 | TWIST2 |
| 3 | 118,575,000 | 118,725,000 | 1582 | 1025 | 0.54066367 | TWIST2 |
| 3 | 118,650,000 | 118,800,000 | 1583 | 953 | 0.696926038 | TWIST2 |
| 3 | 118,725,000 | 118,875,000 | 1584 | 827 | 0.624357206 | |
| 3 | 118,800,000 | 118,950,000 | 1585 | 846 | 0.378244834 | HDAC4 |
| 3 | 118,875,000 | 119,025,000 | 1586 | 770 | -0.043977719 | HDAC4 |
| 3 | 118,950,000 | 119,100,000 | 1587 | 565 | -0.200954088 | HDAC4 |
| 3 | 119,025,000 | 119,175,000 | 1588 | 721 | -0.563199577 | HDAC4 |
| 3 | 119,100,000 | 119,250,000 | 1589 | 784 | -0.240609499 | HDAC4,ENSBTAG00000045515 |
| 3 | 119,175,000 | 119,325,000 | 1590 | 1167 | -0.69743601 | HDAC4,ENSBTAG00000045515 |
| 3 | 119,250,000 | 119,400,000 | 1591 | 1189 | -1.190739779 | HDAC4 |
| 3 | 119,325,000 | 119,475,000 | 1592 | 1007 | -1.164191059 | CSF2RA,HDAC4 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 119,400,000 | 119,550,000 | 1593 | 1338 | -0.919571031 | CSF2RA,HDAC4 |
| 3 | 119,475,000 | 119,625,000 | 1594 | 1036 | -0.450550509 | |
| 3 | 119,550,000 | 119,700,000 | 1595 | 1105 | -1.260886436 | ENSBTAG00000046002,ENSBTAG00000046792 |
| 3 | 119,625,000 | 119,775,000 | 1596 | 1212 | -1.86108774 | ENSBTAG00000045833,ENSBTAG00000045911,ENSBTAG0000046002,ENSBTAG00000046792 |
| 3 | 119,700,000 | 119,850,000 | 1597 | 976 | -2.542467294 | NDUFA10,ENSBTAG00000003281,ENSBTAG00000030221,ENSBTAG00000040084,ENSBTAG00000045833,ENSBTAG0000045911 |
| 3 | 119,775,000 | 119,925,000 | 1598 | 1173 | -2.267051637 | NDUFA10,ENSBTAG00000003281,ENSBTAG00000030221,ENSBTAG00000039566,ENSBTAG00000040084,ENSBTAG0000047496,ENSBTAG00000048084 |
| 3 | 119,850,000 | 120,000,000 | 1599 | 1493 | -0.425143674 | ENSBTAG00000039566,ENSBTAG00000046632,ENSBTAG0000047496,ENSBTAG00000047813,ENSBTAG00000048084 |
| 3 | 119,925,000 | 120,075,000 | 1600 | 1470 | 0.144254359 | ENSBTAG00000039281,ENSBTAG00000040217,ENSBTAG0000040382,ENSBTAG00000046632,ENSBTAG00000047813 |
| 3 | 120,000,000 | 120,150,000 | 1601 | 1081 | 0.399874392 | MYEOV2,OTOS,ENSBTAG00000033837,ENSBTAG00000038082,ENSBTAG00000039281,ENSBTAG00000040217,ENSBTAG00000040382 |
| 3 | 120,075,000 | 120,225,000 | 1602 | 1030 | -0.059871666 | MYEOV2,OTOS,ENSBTAG00000033837,ENSBTAG00000038082 |
| 3 | 120,150,000 | 120,300,000 | 1603 | 914 | -0.243663751 | ANKMY1 |
| 3 | 120,225,000 | 120,375,000 | 1604 | 633 | 0.718194665 | ANKMY1,CAPN10,RNPEPL1 |
| 3 | 120,300,000 | 120,450,000 | 1605 | 808 | 0.188865713 | CAPN10,GPC1,GPR35,RNPEPL1 |
| 3 | 120,375,000 | 120,525,000 | 1606 | 847 | -0.815633707 | GPC1,GPR35,KIF1A,ENSBTAG00000003389 |
| 3 | 120,450,000 | 120,600,000 | 1607 | 738 | -0.854254348 | GPC1,KIF1A,ENSBTAG00000003389 |
| 3 | 120,525,000 | 120,675,000 | 1608 | 846 | -0.090270644 | AGXT,C2orf54,KIF1A |
| 3 | 120,600,000 | 120,750,000 | 1609 | 808 | 0.111010144 | AGXT,C2orf54,KIF1A,ENSBTAG00000005168 |
| 3 | 120,675,000 | 120,825,000 | 1610 | 799 | 0.055198711 | MTERFD2,PASK,SNED1,ENSBTAG00000005168 |
| 3 | 120,750,000 | 120,900,000 | 1611 | 941 | -0.024489505 | MTERFD2,PASK,PPP1R7,SNED1 |
| 3 | 120,825,000 | 120,975,000 | 1612 | 1140 | 0.423667756 | HDLBP,PASK,PPP1R7,SEPT2 |
| 3 | 120,900,000 | 121,050,000 | 1613 | 1413 | 0.256545391 | HDLBP,SEPT2 |
| 3 | 120,975,000 | 121,125,000 | 1614 | 1341 | 0.295016249 | BOK,SEPT2,STK25,THAP4,ENSBTAG00000013110 |
| 3 | 121,050,000 | 121,200,000 | 1615 | 1216 | 0.647386599 | ATG4B,BOK,DTYMK,ING5,STK25,THAP4,ENSBTAG00000013110 |
| 3 | 121,125,000 | 121,275,000 | 1616 | 1343 | 0.859053638 | ATG4B,D2HGDH,DTYMK,GAL3ST2,ING5,NEU4,THAP4 |
| 3 | 121,200,000 | 121,350,000 | 1617 | 1199 | 0.906787815 | D2HGDH,GAL3ST2,ING5,NEU4,PDCD1,RTP5 |
| 3 | 121,275,000 | 121,425,000 | 1618 | 1070 | 0.755606006 | PDCD1,RTP5 |
| 3 | 121,350,000 | 121,430,405 | 1619 | 584 | 0.843558367 | |
| 4 | 0 | 150,000 | 1 | 497 | 0.992621869 | |
| 4 | 75,000 | 225,000 | 2 | 201 | -0.59538752 | |
| 4 | 150,000 | 300,000 | 3 | 316 | -0.031352535 | |
| 4 | 225,000 | 375,000 | 4 | 472 | 0.748960588 | |
| 4 | 300,000 | 450,000 | 5 | 586 | 0.574340863 | VSTM2A |
| 4 | 375,000 | 525,000 | 6 | 742 | 0.097744593 | VSTM2A |
| 4 | 450,000 | 600,000 | 7 | 868 | -2.351763277 | |
| 4 | 525,000 | 675,000 | 8 | 999 | -2.666171515 | |
| 4 | 600,000 | 750,000 | 9 | 1156 | -0.104729656 | |
| 4 | 675,000 | 825,000 | 10 | 1327 | -0.069990309 | |
| 4 | 750,000 | 900,000 | 11 | 1570 | -0.268040066 | |
| 4 | 825,000 | 975,000 | 12 | 1523 | -0.162688587 | |
| 4 | 900,000 | 1,050,000 | 13 | 1132 | -0.175450378 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|------|
| 4 | 975,000 | 1,125,000 | 14 | 998 | -0.080570753 | |
| 4 | 1,050,000 | 1,200,000 | 15 | 1031 | 0.011778999 | |
| 4 | 1,125,000 | 1,275,000 | 16 | 905 | -0.014681084 | |
| 4 | 1,200,000 | 1,350,000 | 17 | 1095 | 0.020368848 | |
| 4 | 1,275,000 | 1,425,000 | 18 | 1495 | 0.313362091 | |
| 4 | 1,350,000 | 1,500,000 | 19 | 1499 | -0.243040677 | |
| 4 | 1,425,000 | 1,575,000 | 20 | 1136 | -1.465622952 | |
| 4 | 1,500,000 | 1,650,000 | 21 | 832 | -1.124631408 | |
| 4 | 1,575,000 | 1,725,000 | 22 | 866 | -3.18640193 | |
| 4 | 1,650,000 | 1,800,000 | 23 | 917 | -2.436522491 | |
| 4 | 1,725,000 | 1,875,000 | 24 | 698 | -0.072722271 | |
| 4 | 1,800,000 | 1,950,000 | 25 | 707 | 0.117169296 | |
| 4 | 1,875,000 | 2,025,000 | 26 | 650 | 0.03762749 | |
| 4 | 1,950,000 | 2,100,000 | 27 | 618 | -1.165210591 | |
| 4 | 2,025,000 | 2,175,000 | 28 | 631 | -1.279336853 | |
| 4 | 2,100,000 | 2,250,000 | 29 | 286 | -0.117653438 | |
| 4 | 2,175,000 | 2,325,000 | 30 | 584 | -0.672054708 | |
| 4 | 2,250,000 | 2,400,000 | 31 | 980 | -1.49395282 | |
| 4 | 2,325,000 | 2,475,000 | 32 | 1030 | -2.896018787 | |
| 4 | 2,400,000 | 2,550,000 | 33 | 878 | -1.674802768 | |
| 4 | 2,475,000 | 2,625,000 | 34 | 888 | -0.769551146 | |
| 4 | 2,550,000 | 2,700,000 | 35 | 931 | -0.819701089 | |
| 4 | 2,625,000 | 2,775,000 | 36 | 800 | -1.192267331 | |
| 4 | 2,700,000 | 2,850,000 | 37 | 1020 | -0.059263529 | |
| 4 | 2,775,000 | 2,925,000 | 38 | 1024 | 0.885783965 | |
| 4 | 2,850,000 | 3,000,000 | 39 | 843 | 0.915370179 | |
| 4 | 2,925,000 | 3,075,000 | 40 | 865 | 0.979273072 | |
| 4 | 3,000,000 | 3,150,000 | 41 | 1038 | -2.858994764 | |
| 4 | 3,075,000 | 3,225,000 | 42 | 1368 | -3.580831289 | |
| 4 | 3,150,000 | 3,300,000 | 43 | 1429 | -2.435959096 | |
| 4 | 3,225,000 | 3,375,000 | 44 | 1413 | -0.074524436 | |
| 4 | 3,300,000 | 3,450,000 | 45 | 1283 | 0.318459119 | |
| 4 | 3,375,000 | 3,525,000 | 46 | 989 | 0.105211122 | |
| 4 | 3,450,000 | 3,600,000 | 47 | 1083 | 0.540184118 | |
| 4 | 3,525,000 | 3,675,000 | 48 | 1229 | 0.260661073 | |
| 4 | 3,600,000 | 3,750,000 | 49 | 1540 | 0.832809442 | |
| 4 | 3,675,000 | 3,825,000 | 50 | 1699 | 1.289385566 | |
| 4 | 3,750,000 | 3,900,000 | 51 | 1346 | 1.13874235 | |
| 4 | 3,825,000 | 3,975,000 | 52 | 1176 | 0.119237865 | |
| 4 | 3,900,000 | 4,050,000 | 53 | 1119 | -0.033475134 | |
| 4 | 3,975,000 | 4,125,000 | 54 | 1112 | 0.812684279 | |
| 4 | 4,050,000 | 4,200,000 | 55 | 1228 | 0.973662893 | |
| 4 | 4,125,000 | 4,275,000 | 56 | 998 | 0.666541325 | |
| 4 | 4,200,000 | 4,350,000 | 57 | 1118 | 0.580500897 | |
| 4 | 4,275,000 | 4,425,000 | 58 | 1257 | 0.819739649 | |
| 4 | 4,350,000 | 4,500,000 | 59 | 1233 | 0.988932841 | COBL |
| 4 | 4,425,000 | 4,575,000 | 60 | 1289 | 1.032611452 | COBL |
| 4 | 4,500,000 | 4,650,000 | 61 | 1111 | 0.312075598 | COBL |
| 4 | 4,575,000 | 4,725,000 | 62 | 880 | -0.899233486 | COBL |
| 4 | 4,650,000 | 4,800,000 | 63 | 955 | 0.302316337 | COBL |
| 4 | 4,725,000 | 4,875,000 | 64 | 1114 | 0.253117444 | COBL |
| 4 | 4,800,000 | 4,950,000 | 65 | 934 | -0.447641487 | |
| 4 | 4,875,000 | 5,025,000 | 66 | 1019 | -0.549308363 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|-------------------------------------|
| 4 | 4,950,000 | 5,100,000 | 67 | 1265 | -0.893185428 | |
| 4 | 5,025,000 | 5,175,000 | 68 | 1227 | -0.821092791 | GRB10 |
| 4 | 5,100,000 | 5,250,000 | 69 | 899 | 0.059619143 | GRB10 |
| 4 | 5,175,000 | 5,325,000 | 70 | 891 | 0.503979594 | DDC,GRB10 |
| 4 | 5,250,000 | 5,400,000 | 71 | 1156 | 0.887049758 | DDC,FIGNL1,ENSBTAG00000001502 |
| 4 | 5,325,000 | 5,475,000 | 72 | 1048 | 1.093965636 | DDC,FIGNL1,IKZF1,ENSBTAG00000001502 |
| 4 | 5,400,000 | 5,550,000 | 73 | 888 | 0.866235357 | IKZF1 |
| 4 | 5,475,000 | 5,625,000 | 74 | 879 | 0.298898892 | IKZF1 |
| 4 | 5,550,000 | 5,700,000 | 75 | 884 | -0.418646458 | C7orf72 |
| 4 | 5,625,000 | 5,775,000 | 76 | 777 | -0.596672569 | C7orf72,ZPBP |
| 4 | 5,700,000 | 5,850,000 | 77 | 820 | 0.041670578 | C7orf72,ZPBP |
| 4 | 5,775,000 | 5,925,000 | 78 | 1324 | 0.909014067 | VWC2,ZPBP |
| 4 | 5,850,000 | 6,000,000 | 79 | 1532 | 0.768997692 | VWC2 |
| 4 | 5,925,000 | 6,075,000 | 80 | 1028 | 0.449286292 | VWC2 |
| 4 | 6,000,000 | 6,150,000 | 81 | 1010 | -0.023786138 | VWC2 |
| 4 | 6,075,000 | 6,225,000 | 82 | 1251 | -0.158865396 | |
| 4 | 6,150,000 | 6,300,000 | 83 | 1237 | 0.148109946 | |
| 4 | 6,225,000 | 6,375,000 | 84 | 1374 | -0.102876476 | |
| 4 | 6,300,000 | 6,450,000 | 85 | 1129 | -1.297993239 | |
| 4 | 6,375,000 | 6,525,000 | 86 | 1097 | -1.039939704 | |
| 4 | 6,450,000 | 6,600,000 | 87 | 1120 | -1.635733651 | |
| 4 | 6,525,000 | 6,675,000 | 88 | 990 | -2.131515253 | |
| 4 | 6,600,000 | 6,750,000 | 89 | 775 | -0.618012729 | |
| 4 | 6,675,000 | 6,825,000 | 90 | 905 | 0.874050286 | |
| 4 | 6,750,000 | 6,900,000 | 91 | 1444 | 0.525323309 | |
| 4 | 6,825,000 | 6,975,000 | 92 | 1425 | -0.122575452 | |
| 4 | 6,900,000 | 7,050,000 | 93 | 1360 | -0.28351851 | |
| 4 | 6,975,000 | 7,125,000 | 94 | 1527 | 0.319996605 | ABCA13 |
| 4 | 7,050,000 | 7,200,000 | 95 | 1568 | 0.693808232 | ABCA13 |
| 4 | 7,125,000 | 7,275,000 | 96 | 1506 | 0.59155385 | ABCA13 |
| 4 | 7,200,000 | 7,350,000 | 97 | 1383 | 0.275272926 | ABCA13 |
| 4 | 7,275,000 | 7,425,000 | 98 | 1355 | 0.790792591 | ABCA13 |
| 4 | 7,350,000 | 7,500,000 | 99 | 1585 | 0.987456251 | ABCA13 |
| 4 | 7,425,000 | 7,575,000 | 100 | 1676 | 0.929129884 | ABCA13,UPP1 |
| 4 | 7,500,000 | 7,650,000 | 101 | 1713 | 0.947042731 | C4H7orf57,SUN3,UPP1 |
| 4 | 7,575,000 | 7,725,000 | 102 | 1861 | 1.033872454 | C4H7orf57,CLDN12,SUN3 |
| 4 | 7,650,000 | 7,800,000 | 103 | 1633 | 1.10585893 | CLDN12,SUN3 |
| 4 | 7,725,000 | 7,875,000 | 104 | 1100 | 0.777688808 | |
| 4 | 7,800,000 | 7,950,000 | 105 | 1093 | 0.429360422 | |
| 4 | 7,875,000 | 8,025,000 | 106 | 1126 | 0.224048862 | |
| 4 | 7,950,000 | 8,100,000 | 107 | 1103 | 0.28926753 | |
| 4 | 8,025,000 | 8,175,000 | 108 | 1310 | 0.545868118 | |
| 4 | 8,100,000 | 8,250,000 | 109 | 906 | 0.388255013 | |
| 4 | 8,175,000 | 8,325,000 | 110 | 665 | 0.304557371 | |
| 4 | 8,250,000 | 8,400,000 | 111 | 870 | 0.305797947 | |
| 4 | 8,325,000 | 8,475,000 | 112 | 868 | 0.441212741 | |
| 4 | 8,400,000 | 8,550,000 | 113 | 1008 | 0.601635268 | FZD1 |
| 4 | 8,475,000 | 8,625,000 | 114 | 911 | 0.793925485 | FZD1,ENSBTAG00000027319 |
| 4 | 8,550,000 | 8,700,000 | 115 | 984 | 0.531941254 | ENSBTAG00000027319 |
| 4 | 8,625,000 | 8,775,000 | 116 | 1181 | -0.312804228 | |
| 4 | 8,700,000 | 8,850,000 | 117 | 740 | -1.26563799 | |
| 4 | 8,775,000 | 8,925,000 | 118 | 468 | -0.425508519 | |
| 4 | 8,850,000 | 9,000,000 | 119 | 518 | 0.603028647 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 4 | 8,925,000 | 9,075,000 | 120 | 878 | 0.579463743 | |
| 4 | 9,000,000 | 9,150,000 | 121 | 1115 | 0.632152759 | MTERF1 |
| 4 | 9,075,000 | 9,225,000 | 122 | 1146 | 0.934605974 | AKAP9,MTERF1 |
| 4 | 9,150,000 | 9,300,000 | 123 | 1162 | 1.058611439 | AKAP9 |
| 4 | 9,225,000 | 9,375,000 | 124 | 987 | 1.027114143 | AKAP9,CYP51A1,LRRD1 |
| 4 | 9,300,000 | 9,450,000 | 125 | 581 | 0.792253151 | AKAP9,CYP51A1,KRIT1,LRRD1 |
| 4 | 9,375,000 | 9,525,000 | 126 | 265 | -0.341149214 | ANKIB1,KRIT1 |
| 4 | 9,450,000 | 9,600,000 | 127 | 317 | -0.252874898 | ANKIB1,TMBIM1B,ENSBTAG00000048169 |
| 4 | 9,525,000 | 9,675,000 | 128 | 674 | -1.05644695 | ANKIB1,GATAD1,PEX1,TMBIM1B,ENSBTAG00000048169 |
| 4 | 9,600,000 | 9,750,000 | 129 | 1122 | -1.170645395 | GATAD1,PEX1,RBM48,TMBIM1B,ENSBTAG0000003810 |
| 4 | 9,675,000 | 9,825,000 | 130 | 1197 | -0.207394962 | CDK6,PEX1,RBM48,ENSBTAG0000003810 |
| 4 | 9,750,000 | 9,900,000 | 131 | 861 | 0.412475063 | CDK6 |
| 4 | 9,825,000 | 9,975,000 | 132 | 823 | -0.237837357 | CDK6 |
| 4 | 9,900,000 | 10,050,000 | 133 | 1037 | -0.632588459 | CDK6 |
| 4 | 9,975,000 | 10,125,000 | 134 | 952 | -0.425457315 | CDK6 |
| 4 | 10,050,000 | 10,200,000 | 135 | 774 | -0.541277881 | |
| 4 | 10,125,000 | 10,275,000 | 136 | 791 | 0.197420897 | |
| 4 | 10,200,000 | 10,350,000 | 137 | 995 | 1.026982241 | SAMD9 |
| 4 | 10,275,000 | 10,425,000 | 138 | 809 | 1.041921576 | HEPACAM2,SAMD9 |
| 4 | 10,350,000 | 10,500,000 | 139 | 601 | 0.815074414 | CCDC132,HEPACAM2 |
| 4 | 10,425,000 | 10,575,000 | 140 | 891 | 1.297448237 | CCDC132 |
| 4 | 10,500,000 | 10,650,000 | 141 | 861 | 0.972511877 | CALCR,CCDC132 |
| 4 | 10,575,000 | 10,725,000 | 142 | 541 | 0.487613835 | CALCR |
| 4 | 10,650,000 | 10,800,000 | 143 | 450 | 0.946520693 | CALCR |
| 4 | 10,725,000 | 10,875,000 | 144 | 401 | -0.213389164 | |
| 4 | 10,800,000 | 10,950,000 | 145 | 521 | -1.18123542 | |
| 4 | 10,875,000 | 11,025,000 | 146 | 741 | -0.606565118 | |
| 4 | 10,950,000 | 11,100,000 | 147 | 921 | 0.35371863 | GNG11,GNGT1,TFPI2 |
| 4 | 11,025,000 | 11,175,000 | 148 | 1358 | 0.093534267 | BET1,GNG11,GNGT1,TFPI2 |
| 4 | 11,100,000 | 11,250,000 | 149 | 1417 | -0.126039194 | BET1 |
| 4 | 11,175,000 | 11,325,000 | 150 | 862 | 0.586983913 | BET1 |
| 4 | 11,250,000 | 11,400,000 | 151 | 913 | 1.22586899 | |
| 4 | 11,325,000 | 11,475,000 | 152 | 928 | 1.216865075 | |
| 4 | 11,400,000 | 11,550,000 | 153 | 632 | 0.968828496 | |
| 4 | 11,475,000 | 11,625,000 | 154 | 758 | -0.026781813 | COL1A2 |
| 4 | 11,550,000 | 11,700,000 | 155 | 608 | -0.565265997 | COL1A2 |
| 4 | 11,625,000 | 11,775,000 | 156 | 348 | 0.227260071 | CASD1,COL1A2 |
| 4 | 11,700,000 | 11,850,000 | 157 | 443 | 0.887985065 | CASD1,SGCE |
| 4 | 11,775,000 | 11,925,000 | 158 | 390 | 0.991420698 | CASD1,PEG10,SGCE |
| 4 | 11,850,000 | 12,000,000 | 159 | 548 | -1.598027977 | PEG10,SGCE |
| 4 | 11,925,000 | 12,075,000 | 160 | 725 | -0.816667785 | PPP1R9A |
| 4 | 12,000,000 | 12,150,000 | 161 | 589 | 0.996373922 | PPP1R9A |
| 4 | 12,075,000 | 12,225,000 | 162 | 892 | 1.180204064 | PPP1R9A |
| 4 | 12,150,000 | 12,300,000 | 163 | 934 | 1.155727752 | PPP1R9A |
| 4 | 12,225,000 | 12,375,000 | 164 | 464 | 0.935523237 | PPP1R9A |
| 4 | 12,300,000 | 12,450,000 | 165 | 368 | 1.045362681 | PON1,PON3,PPP1R9A |
| 4 | 12,375,000 | 12,525,000 | 166 | 331 | 0.603408846 | PON1,PON2,PON3,PPP1R9A |
| 4 | 12,450,000 | 12,600,000 | 167 | 644 | -1.782185658 | ASB4,PON2,PON3 |
| 4 | 12,525,000 | 12,675,000 | 168 | 796 | -1.983319828 | ASB4,ENSBTAG00000038030 |
| 4 | 12,600,000 | 12,750,000 | 169 | 392 | -1.453395035 | ASB4,ENSBTAG00000038030,ENSBTAG00000047555 |
| 4 | 12,675,000 | 12,825,000 | 170 | 298 | -1.237698088 | ASB4,PDK4,ENSBTAG00000047555 |
| 4 | 12,750,000 | 12,900,000 | 171 | 334 | -0.401803229 | PDK4 |
| 4 | 12,825,000 | 12,975,000 | 172 | 427 | 0.893599871 | DYNC1I1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------|
| 4 | 12,900,000 | 13,050,000 | 173 | 615 | 0.781432685 | DYNC1I1 |
| 4 | 12,975,000 | 13,125,000 | 174 | 732 | 0.119043962 | DYNC1I1 |
| 4 | 13,050,000 | 13,200,000 | 175 | 892 | 0.253934413 | DYNC1I1 |
| 4 | 13,125,000 | 13,275,000 | 176 | 893 | -0.407572921 | DYNC1I1 |
| 4 | 13,200,000 | 13,350,000 | 177 | 609 | -1.365920141 | DYNC1I1,SLC25A13 |
| 4 | 13,275,000 | 13,425,000 | 178 | 363 | -0.463453992 | DYNC1I1,SLC25A13 |
| 4 | 13,350,000 | 13,500,000 | 179 | 444 | 1.130086167 | SLC25A13 |
| 4 | 13,425,000 | 13,575,000 | 180 | 511 | 1.176032464 | SLC25A13 |
| 4 | 13,500,000 | 13,650,000 | 181 | 523 | 0.549108647 | SLC25A13,ENSBTAG00000035660 |
| 4 | 13,575,000 | 13,725,000 | 182 | 672 | 0.40965537 | ENSBTAG00000035660 |
| 4 | 13,650,000 | 13,800,000 | 183 | 787 | 1.005845217 | |
| 4 | 13,725,000 | 13,875,000 | 184 | 870 | 0.363462711 | |
| 4 | 13,800,000 | 13,950,000 | 185 | 843 | 0.152348919 | |
| 4 | 13,875,000 | 14,025,000 | 186 | 835 | 0.331909807 | ENSBTAG00000020685 |
| 4 | 13,950,000 | 14,100,000 | 187 | 815 | 0.810967779 | ENSBTAG00000020685 |
| 4 | 14,025,000 | 14,175,000 | 188 | 740 | 0.999991164 | |
| 4 | 14,100,000 | 14,250,000 | 189 | 520 | 0.659266813 | |
| 4 | 14,175,000 | 14,325,000 | 190 | 210 | 0.407496728 | DLX5,DLX6 |
| 4 | 14,250,000 | 14,400,000 | 191 | 367 | 1.365721353 | ACN9,DLX5,DLX6 |
| 4 | 14,325,000 | 14,475,000 | 192 | 570 | 1.253023682 | ACN9 |
| 4 | 14,400,000 | 14,550,000 | 193 | 481 | 0.710408214 | ACN9 |
| 4 | 14,475,000 | 14,625,000 | 194 | 468 | -0.362385661 | ENSBTAG00000020550 |
| 4 | 14,550,000 | 14,700,000 | 195 | 850 | 0.717445364 | ENSBTAG00000020550 |
| 4 | 14,625,000 | 14,775,000 | 196 | 1380 | 0.812818598 | |
| 4 | 14,700,000 | 14,850,000 | 197 | 1174 | 0.173549376 | |
| 4 | 14,775,000 | 14,925,000 | 198 | 822 | 0.221444039 | TAC1 |
| 4 | 14,850,000 | 15,000,000 | 199 | 1233 | 0.80501783 | TAC1 |
| 4 | 14,925,000 | 15,075,000 | 200 | 1670 | 0.518394272 | ASNS,TAC1 |
| 4 | 15,000,000 | 15,150,000 | 201 | 1591 | 0.365572671 | ASNS |
| 4 | 15,075,000 | 15,225,000 | 202 | 1407 | 0.416016338 | ASNS,C1GALT1 |
| 4 | 15,150,000 | 15,300,000 | 203 | 1519 | 0.37915966 | ASNS,C1GALT1 |
| 4 | 15,225,000 | 15,375,000 | 204 | 1946 | 0.876427173 | C1GALT1,COL28A1 |
| 4 | 15,300,000 | 15,450,000 | 205 | 1788 | 0.358843906 | COL28A1 |
| 4 | 15,375,000 | 15,525,000 | 206 | 1713 | -0.690694673 | COL28A1 |
| 4 | 15,450,000 | 15,600,000 | 207 | 1663 | 0.106780286 | COL28A1,MIOS |
| 4 | 15,525,000 | 15,675,000 | 208 | 1685 | 1.18467172 | MIOS,RPA3 |
| 4 | 15,600,000 | 15,750,000 | 209 | 1767 | 1.247826626 | RPA3 |
| 4 | 15,675,000 | 15,825,000 | 210 | 1320 | 1.183657014 | |
| 4 | 15,750,000 | 15,900,000 | 211 | 1192 | 0.151337722 | |
| 4 | 15,825,000 | 15,975,000 | 212 | 871 | -1.906558847 | |
| 4 | 15,900,000 | 16,050,000 | 213 | 609 | -2.022420848 | |
| 4 | 15,975,000 | 16,125,000 | 214 | 1125 | 0.3468164 | |
| 4 | 16,050,000 | 16,200,000 | 215 | 951 | 0.301069942 | |
| 4 | 16,125,000 | 16,275,000 | 216 | 589 | 0.315797402 | |
| 4 | 16,200,000 | 16,350,000 | 217 | 748 | -0.087003599 | |
| 4 | 16,275,000 | 16,425,000 | 218 | 601 | -1.243391872 | |
| 4 | 16,350,000 | 16,500,000 | 219 | 686 | -0.651602108 | |
| 4 | 16,425,000 | 16,575,000 | 220 | 811 | -0.050742156 | |
| 4 | 16,500,000 | 16,650,000 | 221 | 853 | -0.69735566 | |
| 4 | 16,575,000 | 16,725,000 | 222 | 898 | 0.071261829 | |
| 4 | 16,650,000 | 16,800,000 | 223 | 606 | 0.912045987 | |
| 4 | 16,725,000 | 16,875,000 | 224 | 373 | 0.114459074 | |
| 4 | 16,800,000 | 16,950,000 | 225 | 776 | 0.229676555 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 4 | 16,875,000 | 17,025,000 | 226 | 1407 | 0.582395489 | |
| 4 | 16,950,000 | 17,100,000 | 227 | 1452 | 0.894638763 | GLCCI1 |
| 4 | 17,025,000 | 17,175,000 | 228 | 1593 | 0.758625969 | GLCCI1 |
| 4 | 17,100,000 | 17,250,000 | 229 | 1848 | 0.495148933 | GLCCI1,ICA1 |
| 4 | 17,175,000 | 17,325,000 | 230 | 1789 | -0.765539008 | ICA1 |
| 4 | 17,250,000 | 17,400,000 | 231 | 1858 | -1.11267053 | ICA1 |
| 4 | 17,325,000 | 17,475,000 | 232 | 1607 | -0.014164176 | ICA1 |
| 4 | 17,400,000 | 17,550,000 | 233 | 1450 | 0.257801328 | |
| 4 | 17,475,000 | 17,625,000 | 234 | 1501 | 0.212268509 | |
| 4 | 17,550,000 | 17,700,000 | 235 | 1471 | 0.859892552 | |
| 4 | 17,625,000 | 17,775,000 | 236 | 1526 | 0.710587217 | |
| 4 | 17,700,000 | 17,850,000 | 237 | 1038 | 0.369329775 | |
| 4 | 17,775,000 | 17,925,000 | 238 | 573 | -1.807647938 | NXPH1 |
| 4 | 17,850,000 | 18,000,000 | 239 | 934 | -1.864946782 | NXPH1 |
| 4 | 17,925,000 | 18,075,000 | 240 | 1164 | -0.073920912 | ENSBTAG00000046275 |
| 4 | 18,000,000 | 18,150,000 | 241 | 1133 | -0.195274281 | ENSBTAG00000046275 |
| 4 | 18,075,000 | 18,225,000 | 242 | 1199 | -1.086903798 | |
| 4 | 18,150,000 | 18,300,000 | 243 | 881 | -1.383136272 | |
| 4 | 18,225,000 | 18,375,000 | 244 | 767 | -1.419902587 | |
| 4 | 18,300,000 | 18,450,000 | 245 | 804 | -0.502998699 | |
| 4 | 18,375,000 | 18,525,000 | 246 | 717 | 0.484735771 | |
| 4 | 18,450,000 | 18,600,000 | 247 | 1274 | 1.057366095 | |
| 4 | 18,525,000 | 18,675,000 | 248 | 1206 | 0.872983864 | |
| 4 | 18,600,000 | 18,750,000 | 249 | 989 | 0.234031222 | |
| 4 | 18,675,000 | 18,825,000 | 250 | 984 | 0.457970014 | |
| 4 | 18,750,000 | 18,900,000 | 251 | 1069 | 1.08902598 | |
| 4 | 18,825,000 | 18,975,000 | 252 | 1036 | 0.86130056 | NDUFA4,ENSBTAG00000038527 |
| 4 | 18,900,000 | 19,050,000 | 253 | 560 | -0.903935402 | NDUFA4,PHF14,ENSBTAG00000038527 |
| 4 | 18,975,000 | 19,125,000 | 254 | 478 | -0.542601535 | NDUFA4,PHF14 |
| 4 | 19,050,000 | 19,200,000 | 255 | 392 | 0.16134841 | PHF14 |
| 4 | 19,125,000 | 19,275,000 | 256 | 362 | -0.451898007 | |
| 4 | 19,200,000 | 19,350,000 | 257 | 385 | -2.071810784 | |
| 4 | 19,275,000 | 19,425,000 | 258 | 633 | -0.191160858 | |
| 4 | 19,350,000 | 19,500,000 | 259 | 780 | 0.532346549 | THSD7A |
| 4 | 19,425,000 | 19,575,000 | 260 | 774 | -0.55439108 | THSD7A |
| 4 | 19,500,000 | 19,650,000 | 261 | 838 | -2.626498865 | THSD7A |
| 4 | 19,575,000 | 19,725,000 | 262 | 587 | -3.765113161 | THSD7A |
| 4 | 19,650,000 | 19,800,000 | 263 | 478 | -1.455617411 | THSD7A |
| 4 | 19,725,000 | 19,875,000 | 264 | 797 | 0.110052131 | THSD7A |
| 4 | 19,800,000 | 19,950,000 | 265 | 1079 | 0.776824913 | TMEM106B |
| 4 | 19,875,000 | 20,025,000 | 266 | 1278 | 0.574901605 | TMEM106B |
| 4 | 19,950,000 | 20,100,000 | 267 | 996 | 0.075482375 | |
| 4 | 20,025,000 | 20,175,000 | 268 | 953 | 0.504826147 | SCIN |
| 4 | 20,100,000 | 20,250,000 | 269 | 1203 | 0.692731717 | SCIN |
| 4 | 20,175,000 | 20,325,000 | 270 | 1290 | -0.146699616 | ARL4A,SCIN |
| 4 | 20,250,000 | 20,400,000 | 271 | 1471 | 0.466545299 | ARL4A |
| 4 | 20,325,000 | 20,475,000 | 272 | 1344 | 0.88651655 | |
| 4 | 20,400,000 | 20,550,000 | 273 | 1002 | 0.652456349 | |
| 4 | 20,475,000 | 20,625,000 | 274 | 937 | -0.125872955 | |
| 4 | 20,550,000 | 20,700,000 | 275 | 1006 | -0.100301759 | |
| 4 | 20,625,000 | 20,775,000 | 276 | 1057 | 0.034809016 | |
| 4 | 20,700,000 | 20,850,000 | 277 | 961 | -0.057744101 | |
| 4 | 20,775,000 | 20,925,000 | 278 | 734 | -2.899299622 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 4 | 20,850,000 | 21,000,000 | 279 | 879 | -1.947380566 | |
| 4 | 20,925,000 | 21,075,000 | 280 | 1090 | 0.637114493 | |
| 4 | 21,000,000 | 21,150,000 | 281 | 1209 | 0.658545329 | |
| 4 | 21,075,000 | 21,225,000 | 282 | 1321 | -0.031757427 | |
| 4 | 21,150,000 | 21,300,000 | 283 | 1168 | -0.167290912 | |
| 4 | 21,225,000 | 21,375,000 | 284 | 1350 | 0.617602027 | |
| 4 | 21,300,000 | 21,450,000 | 285 | 1209 | 0.808867538 | |
| 4 | 21,375,000 | 21,525,000 | 286 | 513 | 0.967812591 | |
| 4 | 21,450,000 | 21,600,000 | 287 | 527 | 0.608996027 | |
| 4 | 21,525,000 | 21,675,000 | 288 | 674 | 0.343321508 | |
| 4 | 21,600,000 | 21,750,000 | 289 | 714 | 0.520551579 | |
| 4 | 21,675,000 | 21,825,000 | 290 | 721 | 0.900182714 | |
| 4 | 21,750,000 | 21,900,000 | 291 | 695 | 1.030029558 | |
| 4 | 21,825,000 | 21,975,000 | 292 | 854 | 0.861651312 | |
| 4 | 21,900,000 | 22,050,000 | 293 | 782 | 0.825326214 | ETV1 |
| 4 | 21,975,000 | 22,125,000 | 294 | 506 | 0.632222468 | ETV1 |
| 4 | 22,050,000 | 22,200,000 | 295 | 372 | -0.502037108 | ETV1 |
| 4 | 22,125,000 | 22,275,000 | 296 | 396 | -0.682528451 | ETV1 |
| 4 | 22,200,000 | 22,350,000 | 297 | 543 | -0.125234019 | DGKB |
| 4 | 22,275,000 | 22,425,000 | 298 | 900 | 0.214518128 | DGKB |
| 4 | 22,350,000 | 22,500,000 | 299 | 883 | 0.264236722 | DGKB |
| 4 | 22,425,000 | 22,575,000 | 300 | 701 | 0.660170536 | DGKB |
| 4 | 22,500,000 | 22,650,000 | 301 | 1073 | 0.628754782 | DGKB |
| 4 | 22,575,000 | 22,725,000 | 302 | 993 | 0.348490366 | DGKB |
| 4 | 22,650,000 | 22,800,000 | 303 | 478 | -0.121162284 | DGKB |
| 4 | 22,725,000 | 22,875,000 | 304 | 676 | -0.455144749 | DGKB |
| 4 | 22,800,000 | 22,950,000 | 305 | 931 | 0.015527786 | DGKB |
| 4 | 22,875,000 | 23,025,000 | 306 | 945 | 0.324299332 | DGKB |
| 4 | 22,950,000 | 23,100,000 | 307 | 1260 | -0.230981958 | DGKB |
| 4 | 23,025,000 | 23,175,000 | 308 | 1138 | -0.250162207 | DGKB |
| 4 | 23,100,000 | 23,250,000 | 309 | 922 | 0.530799626 | DGKB |
| 4 | 23,175,000 | 23,325,000 | 310 | 1174 | 0.459783568 | |
| 4 | 23,250,000 | 23,400,000 | 311 | 1390 | 0.582452323 | |
| 4 | 23,325,000 | 23,475,000 | 312 | 1315 | 0.48414835 | |
| 4 | 23,400,000 | 23,550,000 | 313 | 1299 | 0.33280799 | AGMO |
| 4 | 23,475,000 | 23,625,000 | 314 | 1269 | 0.509717441 | AGMO |
| 4 | 23,550,000 | 23,700,000 | 315 | 955 | 0.419946509 | AGMO |
| 4 | 23,625,000 | 23,775,000 | 316 | 987 | 0.453924465 | AGMO |
| 4 | 23,700,000 | 23,850,000 | 317 | 1202 | 0.664307307 | AGMO |
| 4 | 23,775,000 | 23,925,000 | 318 | 1193 | 0.626098001 | AGMO |
| 4 | 23,850,000 | 24,000,000 | 319 | 1207 | 0.791439872 | AGMO,MEOX2 |
| 4 | 23,925,000 | 24,075,000 | 320 | 1028 | 0.944580462 | MEOX2 |
| 4 | 24,000,000 | 24,150,000 | 321 | 796 | 0.736696441 | MEOX2 |
| 4 | 24,075,000 | 24,225,000 | 322 | 841 | 0.849368124 | ENSBTAG00000010168 |
| 4 | 24,150,000 | 24,300,000 | 323 | 1094 | 0.974184829 | ENSBTAG00000010168 |
| 4 | 24,225,000 | 24,375,000 | 324 | 1176 | 0.77498515 | |
| 4 | 24,300,000 | 24,450,000 | 325 | 968 | 0.486494846 | |
| 4 | 24,375,000 | 24,525,000 | 326 | 1028 | 0.948045231 | ISPD |
| 4 | 24,450,000 | 24,600,000 | 327 | 1386 | 0.761152703 | ISPD |
| 4 | 24,525,000 | 24,675,000 | 328 | 1440 | -0.079477239 | ISPD |
| 4 | 24,600,000 | 24,750,000 | 329 | 1174 | 0.180074605 | ISPD |
| 4 | 24,675,000 | 24,825,000 | 330 | 976 | 0.666875803 | ISPD |
| 4 | 24,750,000 | 24,900,000 | 331 | 953 | 0.618524529 | ISPD |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 4 | 24,825,000 | 24,975,000 | 332 | 846 | 1.138434893 | ISPD,SOSTDC1 |
| 4 | 24,900,000 | 25,050,000 | 333 | 495 | 0.855442909 | LRRC72,SOSTDC1,ENSBTAG00000045648 |
| 4 | 24,975,000 | 25,125,000 | 334 | 243 | -0.395108842 | ANKMY2,BZW2,LRRC72,ENSBTAG00000045648 |
| 4 | 25,050,000 | 25,200,000 | 335 | 284 | -0.581254906 | ANKMY2,BZW2,LRRC72,ENSBTAG00000045648 |
| 4 | 25,125,000 | 25,275,000 | 336 | 628 | -0.121810866 | AGR2,BZW2,TSPAN13 |
| 4 | 25,200,000 | 25,350,000 | 337 | 1141 | 0.131761729 | AGR2,AGR3,TSPAN13 |
| 4 | 25,275,000 | 25,425,000 | 338 | 1399 | 0.168315426 | AGR3 |
| 4 | 25,350,000 | 25,500,000 | 339 | 1131 | 0.283691856 | |
| 4 | 25,425,000 | 25,575,000 | 340 | 893 | 0.885772411 | |
| 4 | 25,500,000 | 25,650,000 | 341 | 624 | 0.985173053 | |
| 4 | 25,575,000 | 25,725,000 | 342 | 314 | 0.00660725 | |
| 4 | 25,650,000 | 25,800,000 | 343 | 316 | -0.221155118 | AHR |
| 4 | 25,725,000 | 25,875,000 | 344 | 483 | 0.470113933 | AHR |
| 4 | 25,800,000 | 25,950,000 | 345 | 666 | 0.77621985 | AHR |
| 4 | 25,875,000 | 26,025,000 | 346 | 632 | 0.591774736 | |
| 4 | 25,950,000 | 26,100,000 | 347 | 505 | 0.027379198 | |
| 4 | 26,025,000 | 26,175,000 | 348 | 384 | 0.462956771 | |
| 4 | 26,100,000 | 26,250,000 | 349 | 463 | 1.073342844 | |
| 4 | 26,175,000 | 26,325,000 | 350 | 382 | 1.0680888 | |
| 4 | 26,250,000 | 26,400,000 | 351 | 176 | 0.5395183 | SNX13 |
| 4 | 26,325,000 | 26,475,000 | 352 | 220 | 0.050832124 | SNX13 |
| 4 | 26,400,000 | 26,550,000 | 353 | 702 | 0.010828406 | PRPS1L1,SNX13 |
| 4 | 26,475,000 | 26,625,000 | 354 | 790 | -0.240147459 | PRPS1L1 |
| 4 | 26,550,000 | 26,700,000 | 355 | 401 | -0.396831529 | |
| 4 | 26,625,000 | 26,775,000 | 356 | 328 | 0.160391986 | |
| 4 | 26,700,000 | 26,850,000 | 357 | 452 | -0.54055829 | |
| 4 | 26,775,000 | 26,925,000 | 358 | 538 | -1.461980941 | |
| 4 | 26,850,000 | 27,000,000 | 359 | 421 | -2.069216755 | |
| 4 | 26,925,000 | 27,075,000 | 360 | 698 | -0.039583911 | |
| 4 | 27,000,000 | 27,150,000 | 361 | 922 | 0.252183676 | |
| 4 | 27,075,000 | 27,225,000 | 362 | 568 | 0.203240041 | HDAC9 |
| 4 | 27,150,000 | 27,300,000 | 363 | 361 | 0.403142603 | HDAC9 |
| 4 | 27,225,000 | 27,375,000 | 364 | 702 | -1.537978815 | HDAC9 |
| 4 | 27,300,000 | 27,450,000 | 365 | 795 | -2.796376023 | HDAC9 |
| 4 | 27,375,000 | 27,525,000 | 366 | 570 | -1.777698438 | HDAC9 |
| 4 | 27,450,000 | 27,600,000 | 367 | 486 | 0.314726895 | HDAC9 |
| 4 | 27,525,000 | 27,675,000 | 368 | 392 | 0.06138186 | |
| 4 | 27,600,000 | 27,750,000 | 369 | 289 | 0.231422365 | |
| 4 | 27,675,000 | 27,825,000 | 370 | 346 | -0.282387906 | |
| 4 | 27,750,000 | 27,900,000 | 371 | 474 | -0.173468147 | FERD3L,TWIST1 |
| 4 | 27,825,000 | 27,975,000 | 372 | 474 | 0.044826857 | FERD3L,TWIST1 |
| 4 | 27,900,000 | 28,050,000 | 373 | 733 | 0.767202571 | |
| 4 | 27,975,000 | 28,125,000 | 374 | 646 | 1.091665788 | |
| 4 | 28,050,000 | 28,200,000 | 375 | 492 | 0.783432401 | |
| 4 | 28,125,000 | 28,275,000 | 376 | 572 | -0.285909735 | |
| 4 | 28,200,000 | 28,350,000 | 377 | 435 | -0.887907633 | |
| 4 | 28,275,000 | 28,425,000 | 378 | 721 | -0.497599913 | |
| 4 | 28,350,000 | 28,500,000 | 379 | 751 | -0.553763021 | TMEM196,TWISTNB |
| 4 | 28,425,000 | 28,575,000 | 380 | 752 | 0.413883355 | TMEM196,TWISTNB |
| 4 | 28,500,000 | 28,650,000 | 381 | 1157 | 1.018806682 | |
| 4 | 28,575,000 | 28,725,000 | 382 | 1212 | 1.05798653 | |
| 4 | 28,650,000 | 28,800,000 | 383 | 1568 | 0.882992985 | |
| 4 | 28,725,000 | 28,875,000 | 384 | 1722 | 0.883302577 | MACC1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------------|
| 4 | 28,800,000 | 28,950,000 | 385 | 1128 | 0.871479854 | MACC1 |
| 4 | 28,875,000 | 29,025,000 | 386 | 502 | 0.957825298 | |
| 4 | 28,950,000 | 29,100,000 | 387 | 524 | -1.990236331 | |
| 4 | 29,025,000 | 29,175,000 | 388 | 691 | -1.724614863 | ITGB8 |
| 4 | 29,100,000 | 29,250,000 | 389 | 799 | 0.788826429 | ITGB8 |
| 4 | 29,175,000 | 29,325,000 | 390 | 874 | 1.174928474 | ITGB8 |
| 4 | 29,250,000 | 29,400,000 | 391 | 594 | 1.300021022 | |
| 4 | 29,325,000 | 29,475,000 | 392 | 517 | 1.076888751 | ABCB5 |
| 4 | 29,400,000 | 29,550,000 | 393 | 890 | 0.715577904 | ABCB5 |
| 4 | 29,475,000 | 29,625,000 | 394 | 978 | 0.760553299 | ABCB5,SP8 |
| 4 | 29,550,000 | 29,700,000 | 395 | 682 | 0.819168458 | ABCB5,SP8 |
| 4 | 29,625,000 | 29,775,000 | 396 | 657 | 0.787213921 | |
| 4 | 29,700,000 | 29,850,000 | 397 | 699 | 1.019281285 | |
| 4 | 29,775,000 | 29,925,000 | 398 | 824 | 1.237371128 | |
| 4 | 29,850,000 | 30,000,000 | 399 | 817 | 1.288043051 | |
| 4 | 29,925,000 | 30,075,000 | 400 | 1040 | 0.928898894 | |
| 4 | 30,000,000 | 30,150,000 | 401 | 1429 | -0.107401898 | ENSBTAG00000045673 |
| 4 | 30,075,000 | 30,225,000 | 402 | 1662 | 0.072227568 | ENSBTAG00000045673 |
| 4 | 30,150,000 | 30,300,000 | 403 | 1510 | 0.928753938 | |
| 4 | 30,225,000 | 30,375,000 | 404 | 965 | 0.601903076 | SP4 |
| 4 | 30,300,000 | 30,450,000 | 405 | 731 | 0.415642972 | DNAH11,SP4 |
| 4 | 30,375,000 | 30,525,000 | 406 | 846 | -0.065945425 | DNAH11,SP4 |
| 4 | 30,450,000 | 30,600,000 | 407 | 943 | 0.181627147 | DNAH11 |
| 4 | 30,525,000 | 30,675,000 | 408 | 1001 | 0.772478502 | DNAH11 |
| 4 | 30,600,000 | 30,750,000 | 409 | 1088 | 0.590695476 | DNAH11 |
| 4 | 30,675,000 | 30,825,000 | 410 | 1115 | 0.842816079 | CDCA7L,DNAH11 |
| 4 | 30,750,000 | 30,900,000 | 411 | 1184 | 0.937950816 | CDCA7L,DNAH11 |
| 4 | 30,825,000 | 30,975,000 | 412 | 1131 | -0.017230182 | CDCA7L |
| 4 | 30,900,000 | 31,050,000 | 413 | 924 | -0.299058054 | RAPGEF5 |
| 4 | 30,975,000 | 31,125,000 | 414 | 625 | 0.285090021 | RAPGEF5 |
| 4 | 31,050,000 | 31,200,000 | 415 | 463 | -0.063513462 | RAPGEF5 |
| 4 | 31,125,000 | 31,275,000 | 416 | 816 | 0.371499972 | RAPGEF5 |
| 4 | 31,200,000 | 31,350,000 | 417 | 767 | 0.842076565 | RAPGEF5 |
| 4 | 31,275,000 | 31,425,000 | 418 | 578 | 0.355562745 | |
| 4 | 31,350,000 | 31,500,000 | 419 | 763 | -0.177920938 | |
| 4 | 31,425,000 | 31,575,000 | 420 | 654 | 0.705326459 | |
| 4 | 31,500,000 | 31,650,000 | 421 | 494 | 1.083629798 | IL6 |
| 4 | 31,575,000 | 31,725,000 | 422 | 463 | 1.231615139 | IL6,ENSBTAG00000033806 |
| 4 | 31,650,000 | 31,800,000 | 423 | 476 | 0.96761021 | FAM126A,ENSBTAG00000033806 |
| 4 | 31,725,000 | 31,875,000 | 424 | 956 | 0.391649806 | FAM126A |
| 4 | 31,800,000 | 31,950,000 | 425 | 1096 | -0.169075637 | KLHL7 |
| 4 | 31,875,000 | 32,025,000 | 426 | 988 | -1.1698962 | GPNMB,KLHL7,NUPL2 |
| 4 | 31,950,000 | 32,100,000 | 427 | 1252 | -0.800262168 | GPNMB,IGF2BP3,KLHL7,MALSU1,NUPL2 |
| 4 | 32,025,000 | 32,175,000 | 428 | 1108 | 0.2485433 | GPNMB,IGF2BP3,MALSU1 |
| 4 | 32,100,000 | 32,250,000 | 429 | 784 | 1.083104315 | IGF2BP3 |
| 4 | 32,175,000 | 32,325,000 | 430 | 793 | 1.0580713 | IGF2BP3,TRA2A |
| 4 | 32,250,000 | 32,400,000 | 431 | 1101 | 1.138940519 | CCDC126,TRA2A |
| 4 | 32,325,000 | 32,475,000 | 432 | 1329 | 1.237829977 | CCDC126,DBF4 |
| 4 | 32,400,000 | 32,550,000 | 433 | 1586 | 1.249694072 | DBF4 |
| 4 | 32,475,000 | 32,625,000 | 434 | 1654 | 0.725589595 | ENSBTAG00000015666 |
| 4 | 32,550,000 | 32,700,000 | 435 | 1546 | 0.625376916 | RUNDC3B,ENSBTAG00000015666 |
| 4 | 32,625,000 | 32,775,000 | 436 | 1664 | 0.878550415 | RUNDC3B,ENSBTAG00000015666 |
| 4 | 32,700,000 | 32,850,000 | 437 | 1885 | 1.121162642 | RUNDC3B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 4 | 32,775,000 | 32,925,000 | 438 | 1940 | 1.129994764 | RUNDC3B,SLC25A40 |
| 4 | 32,850,000 | 33,000,000 | 439 | 2021 | 1.075776047 | RUNDC3B,SLC25A40 |
| 4 | 32,925,000 | 33,075,000 | 440 | 2202 | 0.977687249 | ABCB1 |
| 4 | 33,000,000 | 33,150,000 | 441 | 1912 | 0.82220452 | ABCB1,ABCB4 |
| 4 | 33,075,000 | 33,225,000 | 442 | 1416 | 0.901265254 | ABCB1,ABCB4,CROT |
| 4 | 33,150,000 | 33,300,000 | 443 | 1330 | 0.976922295 | ABCB4,CROT |
| 4 | 33,225,000 | 33,375,000 | 444 | 1518 | 1.06916169 | CROT,DMTF1,TMEM243 |
| 4 | 33,300,000 | 33,450,000 | 445 | 1518 | 1.241198559 | DMTF1,TMEM243 |
| 4 | 33,375,000 | 33,525,000 | 446 | 1927 | 1.101325934 | DMTF1,KIAA1324L |
| 4 | 33,450,000 | 33,600,000 | 447 | 1976 | 0.681986253 | KIAA1324L |
| 4 | 33,525,000 | 33,675,000 | 448 | 1722 | 0.508731421 | KIAA1324L |
| 4 | 33,600,000 | 33,750,000 | 449 | 1795 | 0.944280312 | KIAA1324L |
| 4 | 33,675,000 | 33,825,000 | 450 | 1560 | -0.026778847 | GRM3,KIAA1324L |
| 4 | 33,750,000 | 33,900,000 | 451 | 1433 | -0.753135284 | GRM3,KIAA1324L |
| 4 | 33,825,000 | 33,975,000 | 452 | 1431 | 0.581704544 | GRM3 |
| 4 | 33,900,000 | 34,050,000 | 453 | 1298 | 0.964744429 | GRM3 |
| 4 | 33,975,000 | 34,125,000 | 454 | 903 | 0.860201603 | GRM3 |
| 4 | 34,050,000 | 34,200,000 | 455 | 944 | 0.681422649 | |
| 4 | 34,125,000 | 34,275,000 | 456 | 1270 | 0.640983614 | |
| 4 | 34,200,000 | 34,350,000 | 457 | 1329 | 0.552151723 | |
| 4 | 34,275,000 | 34,425,000 | 458 | 1223 | 0.998139286 | |
| 4 | 34,350,000 | 34,500,000 | 459 | 1019 | 1.126514894 | |
| 4 | 34,425,000 | 34,575,000 | 460 | 946 | -0.513078614 | |
| 4 | 34,500,000 | 34,650,000 | 461 | 1067 | -0.80499807 | |
| 4 | 34,575,000 | 34,725,000 | 462 | 856 | 0.147934935 | |
| 4 | 34,650,000 | 34,800,000 | 463 | 462 | 0.23035119 | |
| 4 | 34,725,000 | 34,875,000 | 464 | 759 | -0.146129753 | |
| 4 | 34,800,000 | 34,950,000 | 465 | 1075 | 0.413431538 | |
| 4 | 34,875,000 | 35,025,000 | 466 | 773 | 0.897044785 | |
| 4 | 34,950,000 | 35,100,000 | 467 | 634 | 0.742044291 | |
| 4 | 35,025,000 | 35,175,000 | 468 | 661 | 0.882368404 | |
| 4 | 35,100,000 | 35,250,000 | 469 | 429 | 1.029448638 | |
| 4 | 35,175,000 | 35,325,000 | 470 | 264 | 0.89598699 | |
| 4 | 35,250,000 | 35,400,000 | 471 | 343 | 0.50551049 | |
| 4 | 35,325,000 | 35,475,000 | 472 | 490 | 0.448010775 | |
| 4 | 35,400,000 | 35,550,000 | 473 | 591 | 0.093251039 | |
| 4 | 35,475,000 | 35,625,000 | 474 | 659 | -0.764903232 | SEMA3D |
| 4 | 35,550,000 | 35,700,000 | 475 | 614 | -0.527070761 | SEMA3D |
| 4 | 35,625,000 | 35,775,000 | 476 | 546 | 0.4716894 | SEMA3D |
| 4 | 35,700,000 | 35,850,000 | 477 | 436 | 0.541433675 | SEMA3D |
| 4 | 35,775,000 | 35,925,000 | 478 | 646 | 1.220240386 | SEMA3D |
| 4 | 35,850,000 | 36,000,000 | 479 | 1089 | 1.059689107 | |
| 4 | 35,925,000 | 36,075,000 | 480 | 1149 | 0.704675361 | |
| 4 | 36,000,000 | 36,150,000 | 481 | 839 | 0.485830326 | |
| 4 | 36,075,000 | 36,225,000 | 482 | 753 | 0.409114101 | |
| 4 | 36,150,000 | 36,300,000 | 483 | 952 | 0.688537881 | |
| 4 | 36,225,000 | 36,375,000 | 484 | 913 | 0.6068405 | |
| 4 | 36,300,000 | 36,450,000 | 485 | 830 | -0.57026993 | |
| 4 | 36,375,000 | 36,525,000 | 486 | 1139 | -0.102083712 | |
| 4 | 36,450,000 | 36,600,000 | 487 | 1198 | 0.67390596 | |
| 4 | 36,525,000 | 36,675,000 | 488 | 933 | 0.73690123 | SEMA3A |
| 4 | 36,600,000 | 36,750,000 | 489 | 856 | -1.45042718 | SEMA3A |
| 4 | 36,675,000 | 36,825,000 | 490 | 670 | -3.319426341 | SEMA3A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 4 | 36,750,000 | 36,900,000 | 491 | 445 | -1.92195537 | SEMA3A |
| 4 | 36,825,000 | 36,975,000 | 492 | 501 | -3.303632272 | |
| 4 | 36,900,000 | 37,050,000 | 493 | 760 | -2.874001252 | |
| 4 | 36,975,000 | 37,125,000 | 494 | 879 | -0.91978674 | |
| 4 | 37,050,000 | 37,200,000 | 495 | 1036 | 0.267163723 | |
| 4 | 37,125,000 | 37,275,000 | 496 | 996 | 0.329895348 | |
| 4 | 37,200,000 | 37,350,000 | 497 | 861 | -0.051330685 | SEMA3E |
| 4 | 37,275,000 | 37,425,000 | 498 | 804 | -0.157896829 | SEMA3E |
| 4 | 37,350,000 | 37,500,000 | 499 | 882 | 0.302274255 | SEMA3E |
| 4 | 37,425,000 | 37,575,000 | 500 | 936 | -0.376269842 | |
| 4 | 37,500,000 | 37,650,000 | 501 | 801 | -1.323273903 | PCLO |
| 4 | 37,575,000 | 37,725,000 | 502 | 791 | -0.05374951 | PCLO |
| 4 | 37,650,000 | 37,800,000 | 503 | 903 | 1.044557028 | PCLO |
| 4 | 37,725,000 | 37,875,000 | 504 | 790 | 0.975985874 | PCLO |
| 4 | 37,800,000 | 37,950,000 | 505 | 636 | 0.832893265 | PCLO |
| 4 | 37,875,000 | 38,025,000 | 506 | 738 | 0.40628236 | PCLO |
| 4 | 37,950,000 | 38,100,000 | 507 | 732 | -0.237899993 | PCLO |
| 4 | 38,025,000 | 38,175,000 | 508 | 806 | -0.761259212 | |
| 4 | 38,100,000 | 38,250,000 | 509 | 964 | -2.334393613 | |
| 4 | 38,175,000 | 38,325,000 | 510 | 1150 | -2.682611793 | |
| 4 | 38,250,000 | 38,400,000 | 511 | 1298 | -0.399630892 | |
| 4 | 38,325,000 | 38,475,000 | 512 | 1377 | 0.349278881 | |
| 4 | 38,400,000 | 38,550,000 | 513 | 1359 | 0.595642374 | |
| 4 | 38,475,000 | 38,625,000 | 514 | 1374 | 0.917428126 | |
| 4 | 38,550,000 | 38,700,000 | 515 | 1115 | 0.795963952 | |
| 4 | 38,625,000 | 38,775,000 | 516 | 1102 | 1.025569683 | CACNA2D1 |
| 4 | 38,700,000 | 38,850,000 | 517 | 1076 | 0.913648637 | CACNA2D1 |
| 4 | 38,775,000 | 38,925,000 | 518 | 936 | 0.191867711 | CACNA2D1 |
| 4 | 38,850,000 | 39,000,000 | 519 | 1167 | 0.037222574 | CACNA2D1 |
| 4 | 38,925,000 | 39,075,000 | 520 | 1027 | 0.016193129 | |
| 4 | 39,000,000 | 39,150,000 | 521 | 901 | 0.365778054 | HGF |
| 4 | 39,075,000 | 39,225,000 | 522 | 714 | 0.660000305 | HGF |
| 4 | 39,150,000 | 39,300,000 | 523 | 468 | 0.749656235 | HGF |
| 4 | 39,225,000 | 39,375,000 | 524 | 373 | 0.678769962 | |
| 4 | 39,300,000 | 39,450,000 | 525 | 607 | 0.162212694 | |
| 4 | 39,375,000 | 39,525,000 | 526 | 730 | -0.150243742 | |
| 4 | 39,450,000 | 39,600,000 | 527 | 677 | 0.042109266 | ENSBTAG00000033359 |
| 4 | 39,525,000 | 39,675,000 | 528 | 814 | 0.213392004 | ENSBTAG00000033359 |
| 4 | 39,600,000 | 39,750,000 | 529 | 725 | -0.276236772 | |
| 4 | 39,675,000 | 39,825,000 | 530 | 519 | -0.805890938 | |
| 4 | 39,750,000 | 39,900,000 | 531 | 414 | -0.810937862 | |
| 4 | 39,825,000 | 39,975,000 | 532 | 431 | -1.219143897 | |
| 4 | 39,900,000 | 40,050,000 | 533 | 990 | -2.507858973 | |
| 4 | 39,975,000 | 40,125,000 | 534 | 1505 | -1.807356819 | |
| 4 | 40,050,000 | 40,200,000 | 535 | 1155 | -0.962051646 | SEMA3C |
| 4 | 40,125,000 | 40,275,000 | 536 | 638 | -0.910388358 | SEMA3C |
| 4 | 40,200,000 | 40,350,000 | 537 | 562 | -0.271113406 | SEMA3C |
| 4 | 40,275,000 | 40,425,000 | 538 | 507 | 0.313729686 | SEMA3C |
| 4 | 40,350,000 | 40,500,000 | 539 | 865 | 0.899722933 | ENSBTAG00000014220,ENSBTAG00000047646 |
| 4 | 40,425,000 | 40,575,000 | 540 | 1039 | 0.877121935 | ENSBTAG00000014220,ENSBTAG00000046905,ENSBTAG0000047646 |
| 4 | 40,500,000 | 40,650,000 | 541 | 759 | 0.854385105 | CD36,ENSBTAG00000014220,ENSBTAG00000046905 |
| 4 | 40,575,000 | 40,725,000 | 542 | 868 | 0.936529077 | CD36 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 4 | 40,650,000 | 40,800,000 | 543 | 1015 | 0.791105752 | GNAT3 |
| 4 | 40,725,000 | 40,875,000 | 544 | 1070 | 0.784274884 | GNAT3 |
| 4 | 40,800,000 | 40,950,000 | 545 | 899 | 0.775156655 | GNAT3 |
| 4 | 40,875,000 | 41,025,000 | 546 | 623 | 0.386189392 | |
| 4 | 40,950,000 | 41,100,000 | 547 | 524 | 0.391948257 | ENSBTAG00000047294 |
| 4 | 41,025,000 | 41,175,000 | 548 | 811 | 0.489505997 | GNAI1,ENSBTAG00000047294 |
| 4 | 41,100,000 | 41,250,000 | 549 | 1083 | 0.788533659 | GNAI1 |
| 4 | 41,175,000 | 41,325,000 | 550 | 880 | 0.956523997 | GNAI1 |
| 4 | 41,250,000 | 41,400,000 | 551 | 819 | -0.599153039 | GNAI1 |
| 4 | 41,325,000 | 41,475,000 | 552 | 763 | -1.944163093 | |
| 4 | 41,400,000 | 41,550,000 | 553 | 421 | -2.181998508 | |
| 4 | 41,475,000 | 41,625,000 | 554 | 563 | -3.250779002 | |
| 4 | 41,550,000 | 41,700,000 | 555 | 548 | -3.827801178 | |
| 4 | 41,625,000 | 41,775,000 | 556 | 250 | -2.35781602 | |
| 4 | 41,700,000 | 41,850,000 | 557 | 276 | -1.134416732 | |
| 4 | 41,775,000 | 41,925,000 | 558 | 467 | -0.260379021 | |
| 4 | 41,850,000 | 42,000,000 | 559 | 1060 | -0.403887539 | |
| 4 | 41,925,000 | 42,075,000 | 560 | 927 | -0.722286345 | |
| 4 | 42,000,000 | 42,150,000 | 561 | 297 | -1.054878691 | |
| 4 | 42,075,000 | 42,225,000 | 562 | 230 | -0.616438281 | |
| 4 | 42,150,000 | 42,300,000 | 563 | 233 | -0.619185882 | |
| 4 | 42,225,000 | 42,375,000 | 564 | 468 | -1.467697343 | |
| 4 | 42,300,000 | 42,450,000 | 565 | 485 | -0.96595497 | |
| 4 | 42,375,000 | 42,525,000 | 566 | 305 | -0.188684409 | |
| 4 | 42,450,000 | 42,600,000 | 567 | 391 | -1.096982021 | |
| 4 | 42,525,000 | 42,675,000 | 568 | 779 | 0.717808023 | |
| 4 | 42,600,000 | 42,750,000 | 569 | 754 | 1.09456062 | |
| 4 | 42,675,000 | 42,825,000 | 570 | 770 | 0.589443445 | |
| 4 | 42,750,000 | 42,900,000 | 571 | 975 | 0.776263728 | |
| 4 | 42,825,000 | 42,975,000 | 572 | 1093 | 0.698863292 | |
| 4 | 42,900,000 | 43,050,000 | 573 | 1128 | 0.777593029 | |
| 4 | 42,975,000 | 43,125,000 | 574 | 889 | 0.699427872 | |
| 4 | 43,050,000 | 43,200,000 | 575 | 876 | 0.696279486 | |
| 4 | 43,125,000 | 43,275,000 | 576 | 611 | 0.695504834 | |
| 4 | 43,200,000 | 43,350,000 | 577 | 598 | -0.99368161 | |
| 4 | 43,275,000 | 43,425,000 | 578 | 866 | -0.328238043 | ENSBTAG00000022498 |
| 4 | 43,350,000 | 43,500,000 | 579 | 873 | -0.110951068 | ENSBTAG00000022498 |
| 4 | 43,425,000 | 43,575,000 | 580 | 573 | -0.423104643 | PHTF2 |
| 4 | 43,500,000 | 43,650,000 | 581 | 323 | 0.203607728 | PHTF2 |
| 4 | 43,575,000 | 43,725,000 | 582 | 343 | -0.158035974 | PHTF2,RSBN1L,TMEM60 |
| 4 | 43,650,000 | 43,800,000 | 583 | 338 | -0.659404719 | RSBN1L,TMEM60 |
| 4 | 43,725,000 | 43,875,000 | 584 | 261 | -0.449456049 | PTPN12,RSBN1L |
| 4 | 43,800,000 | 43,950,000 | 585 | 284 | 0.987149493 | PTPN12 |
| 4 | 43,875,000 | 44,025,000 | 586 | 484 | 0.986422446 | PTPN12 |
| 4 | 43,950,000 | 44,100,000 | 587 | 449 | 0.853624462 | PION |
| 4 | 44,025,000 | 44,175,000 | 588 | 463 | 0.934399743 | CCDC146,PION |
| 4 | 44,100,000 | 44,250,000 | 589 | 876 | 0.623620305 | CCDC146,FGL2,PION |
| 4 | 44,175,000 | 44,325,000 | 590 | 1065 | 0.314547082 | CCDC146,FAM185A,FGL2 |
| 4 | 44,250,000 | 44,400,000 | 591 | 691 | 0.437104661 | FAM185A,FBXL13 |
| 4 | 44,325,000 | 44,475,000 | 592 | 783 | 0.28909682 | FAM185A,FBXL13 |
| 4 | 44,400,000 | 44,550,000 | 593 | 1170 | 0.307986782 | FBXL13,LRRC17 |
| 4 | 44,475,000 | 44,625,000 | 594 | 1210 | 0.585019125 | ARMC10,FBXL13,LRRC17 |
| 4 | 44,550,000 | 44,700,000 | 595 | 1178 | 0.800406258 | ARMC10,FBXL13,NAPEPLD |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 4 | 44,625,000 | 44,775,000 | 596 | 1303 | 0.997565144 | ARMC10,DNAJC2,NAPEPLD,PMPCB |
| 4 | 44,700,000 | 44,850,000 | 597 | 1289 | 0.971171272 | DNAJC2,NAPEPLD,PMPCB,PSMC2,SLC26A5 |
| 4 | 44,775,000 | 44,925,000 | 598 | 1279 | 0.463386659 | DNAJC2,PSMC2,RELN,SLC26A5 |
| 4 | 44,850,000 | 45,000,000 | 599 | 1192 | -0.043711124 | RELN,SLC26A5 |
| 4 | 44,925,000 | 45,075,000 | 600 | 786 | 0.023930222 | RELN |
| 4 | 45,000,000 | 45,150,000 | 601 | 538 | 0.402715645 | RELN |
| 4 | 45,075,000 | 45,225,000 | 602 | 387 | 0.311638926 | RELN |
| 4 | 45,150,000 | 45,300,000 | 603 | 309 | -0.09222101 | RELN |
| 4 | 45,225,000 | 45,375,000 | 604 | 338 | 0.555166611 | RELN |
| 4 | 45,300,000 | 45,450,000 | 605 | 500 | 0.804691262 | |
| 4 | 45,375,000 | 45,525,000 | 606 | 456 | 0.811818544 | ENSBTAG00000046817 |
| 4 | 45,450,000 | 45,600,000 | 607 | 568 | 1.225626474 | ORC5L,ENSBTAG00000046817 |
| 4 | 45,525,000 | 45,675,000 | 608 | 905 | 1.099176141 | ORC5L |
| 4 | 45,600,000 | 45,750,000 | 609 | 710 | 0.716647284 | ORC5L |
| 4 | 45,675,000 | 45,825,000 | 610 | 373 | 0.450638393 | LHFPL3,ORC5L |
| 4 | 45,750,000 | 45,900,000 | 611 | 353 | 0.188699695 | LHFPL3 |
| 4 | 45,825,000 | 45,975,000 | 612 | 462 | -0.103200832 | LHFPL3 |
| 4 | 45,900,000 | 46,050,000 | 613 | 711 | -0.075989085 | LHFPL3 |
| 4 | 45,975,000 | 46,125,000 | 614 | 708 | -0.164666964 | LHFPL3 |
| 4 | 46,050,000 | 46,200,000 | 615 | 539 | -1.961529039 | LHFPL3 |
| 4 | 46,125,000 | 46,275,000 | 616 | 541 | -2.624825887 | LHFPL3 |
| 4 | 46,200,000 | 46,350,000 | 617 | 860 | -1.000645399 | LHFPL3 |
| 4 | 46,275,000 | 46,425,000 | 618 | 885 | 0.206796603 | |
| 4 | 46,350,000 | 46,500,000 | 619 | 553 | 0.532385662 | KMT2E |
| 4 | 46,425,000 | 46,575,000 | 620 | 494 | -0.247131364 | KMT2E,SRPK2 |
| 4 | 46,500,000 | 46,650,000 | 621 | 485 | -0.46018651 | KMT2E,SRPK2 |
| 4 | 46,575,000 | 46,725,000 | 622 | 490 | 0.544213518 | SRPK2 |
| 4 | 46,650,000 | 46,800,000 | 623 | 448 | 0.764802143 | |
| 4 | 46,725,000 | 46,875,000 | 624 | 690 | 0.807460447 | PUS7 |
| 4 | 46,800,000 | 46,950,000 | 625 | 1040 | 0.409371781 | PUS7,RINT1 |
| 4 | 46,875,000 | 47,025,000 | 626 | 977 | 0.423412437 | ATXN7L1,PUS7,RINT1 |
| 4 | 46,950,000 | 47,100,000 | 627 | 989 | 0.698442517 | ATXN7L1 |
| 4 | 47,025,000 | 47,175,000 | 628 | 952 | 0.546120287 | ATXN7L1 |
| 4 | 47,100,000 | 47,250,000 | 629 | 986 | 0.453818637 | ATXN7L1 |
| 4 | 47,175,000 | 47,325,000 | 630 | 856 | 0.120594451 | ATXN7L1,CDHR3 |
| 4 | 47,250,000 | 47,400,000 | 631 | 460 | -1.212405793 | CDHR3 |
| 4 | 47,325,000 | 47,475,000 | 632 | 459 | -2.058199986 | CDHR3,SYPL1 |
| 4 | 47,400,000 | 47,550,000 | 633 | 829 | -0.839905777 | SYPL1 |
| 4 | 47,475,000 | 47,625,000 | 634 | 960 | -0.026979752 | NAMPT |
| 4 | 47,550,000 | 47,700,000 | 635 | 1023 | -0.462848022 | NAMPT |
| 4 | 47,625,000 | 47,775,000 | 636 | 1161 | -0.980838492 | NAMPT |
| 4 | 47,700,000 | 47,850,000 | 637 | 1079 | -0.499915801 | |
| 4 | 47,775,000 | 47,925,000 | 638 | 1106 | -0.187270048 | |
| 4 | 47,850,000 | 48,000,000 | 639 | 1130 | -1.056848016 | |
| 4 | 47,925,000 | 48,075,000 | 640 | 1180 | -1.294735482 | |
| 4 | 48,000,000 | 48,150,000 | 641 | 1140 | -0.436208073 | |
| 4 | 48,075,000 | 48,225,000 | 642 | 1030 | 0.19770302 | |
| 4 | 48,150,000 | 48,300,000 | 643 | 774 | 0.082179285 | PIK3CG |
| 4 | 48,225,000 | 48,375,000 | 644 | 615 | -1.002142054 | PIK3CG |
| 4 | 48,300,000 | 48,450,000 | 645 | 823 | -1.387853433 | PIK3CG,PRKAR2B |
| 4 | 48,375,000 | 48,525,000 | 646 | 747 | -0.838519815 | PRKAR2B |
| 4 | 48,450,000 | 48,600,000 | 647 | 630 | -1.189029984 | COG5,HBP1,PRKAR2B |
| 4 | 48,525,000 | 48,675,000 | 648 | 803 | -0.341524125 | COG5,HBP1,PRKAR2B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 4 | 48,600,000 | 48,750,000 | 649 | 807 | 0.739576626 | COG5 |
| 4 | 48,675,000 | 48,825,000 | 650 | 607 | 0.840110647 | COG5,GPR22 |
| 4 | 48,750,000 | 48,900,000 | 651 | 523 | 0.971788575 | BCAP29,COG5,DUS4L,GPR22 |
| 4 | 48,825,000 | 48,975,000 | 652 | 710 | 0.770811024 | BCAP29,COG5,DUS4L,SLC26A4 |
| 4 | 48,900,000 | 49,050,000 | 653 | 845 | 0.529825116 | BCAP29,SLC26A4,ENSBTAG00000018348 |
| 4 | 48,975,000 | 49,125,000 | 654 | 974 | -0.04289411 | SLC26A3,SLC26A4,ENSBTAG00000018348 |
| 4 | 49,050,000 | 49,200,000 | 655 | 1251 | 0.285053018 | SLC26A3,ENSBTAG00000018348 |
| 4 | 49,125,000 | 49,275,000 | 656 | 1141 | 0.729338032 | DLD,LAMB1 |
| 4 | 49,200,000 | 49,350,000 | 657 | 1149 | 0.774369845 | DLD,LAMB1 |
| 4 | 49,275,000 | 49,425,000 | 658 | 1526 | 0.871878425 | LAMB1,LAMB4 |
| 4 | 49,350,000 | 49,500,000 | 659 | 1286 | 0.894645097 | LAMB4 |
| 4 | 49,425,000 | 49,575,000 | 660 | 798 | 0.390312032 | LAMB4,NRCAM |
| 4 | 49,500,000 | 49,650,000 | 661 | 564 | -0.140643316 | NRCAM |
| 4 | 49,575,000 | 49,725,000 | 662 | 783 | 0.876524992 | NRCAM |
| 4 | 49,650,000 | 49,800,000 | 663 | 1202 | 0.978982849 | |
| 4 | 49,725,000 | 49,875,000 | 664 | 946 | -0.288595737 | PNPLA8 |
| 4 | 49,800,000 | 49,950,000 | 665 | 582 | -1.68908599 | PNPLA8,ENSBTAG00000014795 |
| 4 | 49,875,000 | 50,025,000 | 666 | 544 | 0.345070456 | NME8,PNPLA8,SFRP4,ENSBTAG00000014795 |
| 4 | 49,950,000 | 50,100,000 | 667 | 412 | 0.563453067 | EPDR1,NME8,SFRP4 |
| 4 | 50,025,000 | 50,175,000 | 668 | 347 | 0.416056344 | EPDR1 |
| 4 | 50,100,000 | 50,250,000 | 669 | 302 | 0.528664892 | |
| 4 | 50,175,000 | 50,325,000 | 670 | 283 | 0.527388173 | STARD3NL |
| 4 | 50,250,000 | 50,400,000 | 671 | 483 | 0.499991979 | STARD3NL,ENSBTAG00000035945 |
| 4 | 50,325,000 | 50,475,000 | 672 | 905 | 0.838452737 | STARD3NL,ENSBTAG00000035945 |
| 4 | 50,400,000 | 50,550,000 | 673 | 1119 | 1.101445287 | |
| 4 | 50,475,000 | 50,625,000 | 674 | 1107 | 0.335073693 | |
| 4 | 50,550,000 | 50,700,000 | 675 | 690 | -0.834450006 | |
| 4 | 50,625,000 | 50,775,000 | 676 | 485 | 0.830415165 | |
| 4 | 50,700,000 | 50,850,000 | 677 | 976 | 0.686116008 | CTTNBP2,ENSBTAG00000036154 |
| 4 | 50,775,000 | 50,925,000 | 678 | 822 | 0.221333968 | CTTNBP2,ENSBTAG00000036154 |
| 4 | 50,850,000 | 51,000,000 | 679 | 586 | -1.04705748 | CTTNBP2 |
| 4 | 50,925,000 | 51,075,000 | 680 | 693 | -0.582345996 | CFTR,CTTNBP2 |
| 4 | 51,000,000 | 51,150,000 | 681 | 695 | -2.233785016 | CFTR |
| 4 | 51,075,000 | 51,225,000 | 682 | 692 | -1.755945684 | CFTR |
| 4 | 51,150,000 | 51,300,000 | 683 | 474 | -0.382214893 | ASZ1,CFTR |
| 4 | 51,225,000 | 51,375,000 | 684 | 323 | -0.610491611 | ASZ1,CFTR |
| 4 | 51,300,000 | 51,450,000 | 685 | 383 | -0.355979002 | ASZ1,WNT2 |
| 4 | 51,375,000 | 51,525,000 | 686 | 391 | 0.171793565 | ST7,WNT2 |
| 4 | 51,450,000 | 51,600,000 | 687 | 385 | 0.551412029 | ST7 |
| 4 | 51,525,000 | 51,675,000 | 688 | 324 | 0.52839675 | ST7 |
| 4 | 51,600,000 | 51,750,000 | 689 | 320 | 0.575421676 | ST7 |
| 4 | 51,675,000 | 51,825,000 | 690 | 549 | 1.095473191 | CAPZA2,ST7 |
| 4 | 51,750,000 | 51,900,000 | 691 | 910 | 1.016881577 | CAPZA2 |
| 4 | 51,825,000 | 51,975,000 | 692 | 902 | 0.612228505 | C-MET,CAPZA2 |
| 4 | 51,900,000 | 52,050,000 | 693 | 590 | 0.147115136 | C-MET |
| 4 | 51,975,000 | 52,125,000 | 694 | 675 | 0.486670394 | C-MET |
| 4 | 52,050,000 | 52,200,000 | 695 | 865 | 0.333968688 | CAV1 |
| 4 | 52,125,000 | 52,275,000 | 696 | 1031 | 0.39894383 | CAV1,CAV2 |
| 4 | 52,200,000 | 52,350,000 | 697 | 891 | 0.435000552 | CAV1,CAV2 |
| 4 | 52,275,000 | 52,425,000 | 698 | 566 | 0.003315547 | |
| 4 | 52,350,000 | 52,500,000 | 699 | 423 | -0.660339276 | TES |
| 4 | 52,425,000 | 52,575,000 | 700 | 340 | -0.623689722 | TES |
| 4 | 52,500,000 | 52,650,000 | 701 | 763 | 0.095439153 | TES,TFEC |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 4 | 52,575,000 | 52,725,000 | 702 | 890 | -0.044718095 | TFEC |
| 4 | 52,650,000 | 52,800,000 | 703 | 739 | -0.601580624 | TFEC |
| 4 | 52,725,000 | 52,875,000 | 704 | 772 | -0.401944751 | TFEC |
| 4 | 52,800,000 | 52,950,000 | 705 | 774 | 0.582818244 | TFEC |
| 4 | 52,875,000 | 53,025,000 | 706 | 1084 | 1.106643393 | |
| 4 | 52,950,000 | 53,100,000 | 707 | 1079 | 1.028104292 | |
| 4 | 53,025,000 | 53,175,000 | 708 | 1024 | 0.719767117 | |
| 4 | 53,100,000 | 53,250,000 | 709 | 1255 | 0.32007085 | |
| 4 | 53,175,000 | 53,325,000 | 710 | 1123 | 0.135277286 | |
| 4 | 53,250,000 | 53,400,000 | 711 | 679 | 0.148439206 | |
| 4 | 53,325,000 | 53,475,000 | 712 | 573 | 1.039636259 | |
| 4 | 53,400,000 | 53,550,000 | 713 | 607 | 0.964380103 | |
| 4 | 53,475,000 | 53,625,000 | 714 | 571 | -0.485674001 | |
| 4 | 53,550,000 | 53,700,000 | 715 | 435 | -0.774918169 | |
| 4 | 53,625,000 | 53,775,000 | 716 | 326 | -0.77083359 | MDFIC |
| 4 | 53,700,000 | 53,850,000 | 717 | 519 | 0.662098169 | MDFIC |
| 4 | 53,775,000 | 53,925,000 | 718 | 581 | 0.939938576 | MDFIC |
| 4 | 53,850,000 | 54,000,000 | 719 | 527 | -1.423263948 | MDFIC |
| 4 | 53,925,000 | 54,075,000 | 720 | 779 | -2.722867719 | |
| 4 | 54,000,000 | 54,150,000 | 721 | 623 | -2.102682924 | FOXP2 |
| 4 | 54,075,000 | 54,225,000 | 722 | 263 | 1.396922343 | FOXP2 |
| 4 | 54,150,000 | 54,300,000 | 723 | 297 | 1.465681569 | FOXP2 |
| 4 | 54,225,000 | 54,375,000 | 724 | 355 | 0.62412931 | |
| 4 | 54,300,000 | 54,450,000 | 725 | 333 | 0.395247995 | |
| 4 | 54,375,000 | 54,525,000 | 726 | 232 | 0.143884101 | |
| 4 | 54,450,000 | 54,600,000 | 727 | 238 | 0.273430355 | |
| 4 | 54,525,000 | 54,675,000 | 728 | 323 | 0.798179191 | |
| 4 | 54,600,000 | 54,750,000 | 729 | 289 | 1.064885127 | |
| 4 | 54,675,000 | 54,825,000 | 730 | 154 | 1.240094224 | |
| 4 | 54,750,000 | 54,900,000 | 731 | 382 | 1.136191398 | PPP1R3A |
| 4 | 54,825,000 | 54,975,000 | 732 | 471 | 0.71113705 | PPP1R3A |
| 4 | 54,900,000 | 55,050,000 | 733 | 368 | 0.285201038 | PPP1R3A |
| 4 | 54,975,000 | 55,125,000 | 734 | 364 | 0.538152628 | |
| 4 | 55,050,000 | 55,200,000 | 735 | 293 | 0.611269966 | |
| 4 | 55,125,000 | 55,275,000 | 736 | 260 | 0.934820705 | |
| 4 | 55,200,000 | 55,350,000 | 737 | 276 | 0.80629182 | |
| 4 | 55,275,000 | 55,425,000 | 738 | 276 | 0.570364279 | |
| 4 | 55,350,000 | 55,500,000 | 739 | 276 | 0.281013419 | |
| 4 | 55,425,000 | 55,575,000 | 740 | 292 | -0.166292222 | |
| 4 | 55,500,000 | 55,650,000 | 741 | 308 | -0.022841698 | GPR85,ENSBTAG00000046823 |
| 4 | 55,575,000 | 55,725,000 | 742 | 530 | 0.041098118 | GPR85,ENSBTAG00000046823 |
| 4 | 55,650,000 | 55,800,000 | 743 | 614 | 0.250787119 | |
| 4 | 55,725,000 | 55,875,000 | 744 | 765 | 0.320751824 | IFRD1,LSMEM1 |
| 4 | 55,800,000 | 55,950,000 | 745 | 979 | 0.579019224 | IFRD1,LSMEM1 |
| 4 | 55,875,000 | 56,025,000 | 746 | 849 | 1.153705066 | IFRD1,ZNF277 |
| 4 | 55,950,000 | 56,100,000 | 747 | 697 | 1.216639863 | ZNF277 |
| 4 | 56,025,000 | 56,175,000 | 748 | 670 | 0.911287776 | ZNF277 |
| 4 | 56,100,000 | 56,250,000 | 749 | 797 | 0.602662588 | ZNF277 |
| 4 | 56,175,000 | 56,325,000 | 750 | 932 | 0.83450651 | |
| 4 | 56,250,000 | 56,400,000 | 751 | 600 | 0.93539702 | C7orf60 |
| 4 | 56,325,000 | 56,475,000 | 752 | 273 | 0.708152623 | C7orf60,TMEM168 |
| 4 | 56,400,000 | 56,550,000 | 753 | 712 | 1.219953019 | C7orf60,TMEM168,ENSBTAG00000024361 |
| 4 | 56,475,000 | 56,625,000 | 754 | 1036 | 0.700557115 | TMEM168,ENSBTAG00000024361 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 56,550,000 | 56,700,000 | 755 | 821 | -1.040658166 | DOCK4 |
| 4 | 56,625,000 | 56,775,000 | 756 | 593 | -0.612126227 | DOCK4 |
| 4 | 56,700,000 | 56,850,000 | 757 | 617 | 0.221341639 | DOCK4 |
| 4 | 56,775,000 | 56,925,000 | 758 | 729 | 0.21660141 | DOCK4 |
| 4 | 56,850,000 | 57,000,000 | 759 | 641 | 0.534009805 | DOCK4 |
| 4 | 56,925,000 | 57,075,000 | 760 | 491 | 0.609870721 | |
| 4 | 57,000,000 | 57,150,000 | 761 | 404 | 0.465156014 | IMMP2L |
| 4 | 57,075,000 | 57,225,000 | 762 | 345 | -0.223044618 | IMMP2L,ENSBTAG00000045592 |
| 4 | 57,150,000 | 57,300,000 | 763 | 481 | -1.827309684 | IMMP2L,ENSBTAG00000045592 |
| 4 | 57,225,000 | 57,375,000 | 764 | 653 | -4.096640849 | IMMP2L |
| 4 | 57,300,000 | 57,450,000 | 765 | 473 | -4.548977034 | IMMP2L |
| 4 | 57,375,000 | 57,525,000 | 766 | 461 | 0.296591561 | IMMP2L |
| 4 | 57,450,000 | 57,600,000 | 767 | 646 | 0.764870361 | IMMP2L,LRRN3 |
| 4 | 57,525,000 | 57,675,000 | 768 | 559 | 0.555341559 | IMMP2L,LRRN3 |
| 4 | 57,600,000 | 57,750,000 | 769 | 503 | 0.043405472 | IMMP2L |
| 4 | 57,675,000 | 57,825,000 | 770 | 657 | 0.135388259 | IMMP2L |
| 4 | 57,750,000 | 57,900,000 | 771 | 1197 | 0.373174847 | IMMP2L |
| 4 | 57,825,000 | 57,975,000 | 772 | 1143 | 0.25442568 | IMMP2L |
| 4 | 57,900,000 | 58,050,000 | 773 | 966 | 0.426770471 | IMMP2L |
| 4 | 57,975,000 | 58,125,000 | 774 | 1197 | 0.830397741 | IMMP2L |
| 4 | 58,050,000 | 58,200,000 | 775 | 1180 | 0.955111007 | IMMP2L |
| 4 | 58,125,000 | 58,275,000 | 776 | 1093 | 0.92707587 | |
| 4 | 58,200,000 | 58,350,000 | 777 | 1001 | 0.784898876 | |
| 4 | 58,275,000 | 58,425,000 | 778 | 1177 | 0.742604207 | |
| 4 | 58,350,000 | 58,500,000 | 779 | 900 | 0.573372232 | |
| 4 | 58,425,000 | 58,575,000 | 780 | 420 | -0.062143494 | |
| 4 | 58,500,000 | 58,650,000 | 781 | 305 | -0.46896681 | |
| 4 | 58,575,000 | 58,725,000 | 782 | 257 | -0.621516737 | |
| 4 | 58,650,000 | 58,800,000 | 783 | 386 | -0.069245562 | |
| 4 | 58,725,000 | 58,875,000 | 784 | 417 | 0.278108441 | |
| 4 | 58,800,000 | 58,950,000 | 785 | 445 | -0.038888503 | |
| 4 | 58,875,000 | 59,025,000 | 786 | 845 | -0.714346627 | |
| 4 | 58,950,000 | 59,100,000 | 787 | 1244 | -0.325497177 | |
| 4 | 59,025,000 | 59,175,000 | 788 | 1224 | 0.346745647 | |
| 4 | 59,100,000 | 59,250,000 | 789 | 877 | 1.06350785 | |
| 4 | 59,175,000 | 59,325,000 | 790 | 961 | 0.620734337 | |
| 4 | 59,250,000 | 59,400,000 | 791 | 1127 | 0.467271214 | |
| 4 | 59,325,000 | 59,475,000 | 792 | 1169 | 0.524495886 | |
| 4 | 59,400,000 | 59,550,000 | 793 | 887 | 0.326745254 | |
| 4 | 59,475,000 | 59,625,000 | 794 | 556 | -0.333355636 | |
| 4 | 59,550,000 | 59,700,000 | 795 | 890 | -1.117991244 | |
| 4 | 59,625,000 | 59,775,000 | 796 | 1141 | -1.624139123 | |
| 4 | 59,700,000 | 59,850,000 | 797 | 1133 | -1.161019842 | |
| 4 | 59,775,000 | 59,925,000 | 798 | 929 | -1.55540936 | |
| 4 | 59,850,000 | 60,000,000 | 799 | 669 | -2.067714683 | DNAJB9,THAP5 |
| 4 | 59,925,000 | 60,075,000 | 800 | 930 | 0.759131359 | DNAJB9,GPR141,THAP5,ENSBTAG00000046491 |
| 4 | 60,000,000 | 60,150,000 | 801 | 1379 | 0.267378685 | GPR141,ENSBTAG00000046491 |
| 4 | 60,075,000 | 60,225,000 | 802 | 1529 | -0.358546664 | |
| 4 | 60,150,000 | 60,300,000 | 803 | 1405 | 0.376806649 | |
| 4 | 60,225,000 | 60,375,000 | 804 | 1153 | 0.722838258 | ELMO1 |
| 4 | 60,300,000 | 60,450,000 | 805 | 872 | 0.363241637 | ELMO1 |
| 4 | 60,375,000 | 60,525,000 | 806 | 781 | -0.133657572 | ELMO1 |
| 4 | 60,450,000 | 60,600,000 | 807 | 1018 | -0.06923523 | ELMO1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 4 | 60,525,000 | 60,675,000 | 808 | 1050 | -1.137873365 | ELMO1 |
| 4 | 60,600,000 | 60,750,000 | 809 | 984 | -1.251896282 | ELMO1 |
| 4 | 60,675,000 | 60,825,000 | 810 | 1034 | 0.528480821 | ELMO1 |
| 4 | 60,750,000 | 60,900,000 | 811 | 1088 | 0.374173196 | ELMO1 |
| 4 | 60,825,000 | 60,975,000 | 812 | 1089 | -0.359643869 | AOAH,ELMO1 |
| 4 | 60,900,000 | 61,050,000 | 813 | 1275 | -1.844551298 | AOAH |
| 4 | 60,975,000 | 61,125,000 | 814 | 1246 | -1.556742535 | AOAH |
| 4 | 61,050,000 | 61,200,000 | 815 | 853 | 0.150195844 | ANLN,AOAH,ENSBTAG00000048186 |
| 4 | 61,125,000 | 61,275,000 | 816 | 690 | -1.799617367 | ANLN,AOAH,KIAA0895,ENSBTAG00000048186 |
| 4 | 61,200,000 | 61,350,000 | 817 | 873 | -1.391068157 | ANLN,KIAA0895 |
| 4 | 61,275,000 | 61,425,000 | 818 | 1169 | -0.837579842 | EEPD1,KIAA0895 |
| 4 | 61,350,000 | 61,500,000 | 819 | 1089 | -0.604751612 | EEPD1 |
| 4 | 61,425,000 | 61,575,000 | 820 | 1042 | 0.317304008 | EEPD1 |
| 4 | 61,500,000 | 61,650,000 | 821 | 965 | 0.139703537 | CDC10 |
| 4 | 61,575,000 | 61,725,000 | 822 | 597 | 0.16347997 | CDC10 |
| 4 | 61,650,000 | 61,800,000 | 823 | 522 | -0.347704485 | CDC10 |
| 4 | 61,725,000 | 61,875,000 | 824 | 499 | 0.014884913 | HERPUD2 |
| 4 | 61,800,000 | 61,950,000 | 825 | 674 | 0.291028717 | HERPUD2 |
| 4 | 61,875,000 | 62,025,000 | 826 | 1009 | 0.371691635 | |
| 4 | 61,950,000 | 62,100,000 | 827 | 973 | 0.512358497 | RBX1 |
| 4 | 62,025,000 | 62,175,000 | 828 | 950 | 0.122806986 | RBX1 |
| 4 | 62,100,000 | 62,250,000 | 829 | 1031 | 0.241550124 | TBX20 |
| 4 | 62,175,000 | 62,325,000 | 830 | 1068 | 0.717413573 | DPY19L2,TBX20 |
| 4 | 62,250,000 | 62,400,000 | 831 | 1017 | 0.494806967 | DPY19L1,DPY19L2 |
| 4 | 62,325,000 | 62,475,000 | 832 | 1133 | -0.525395327 | DPY19L1,DPY19L2 |
| 4 | 62,400,000 | 62,550,000 | 833 | 1248 | -0.309903526 | DPY19L1,NPSR1 |
| 4 | 62,475,000 | 62,625,000 | 834 | 1023 | 0.321677932 | DPY19L1,NPSR1 |
| 4 | 62,550,000 | 62,700,000 | 835 | 945 | 0.658120052 | NPSR1 |
| 4 | 62,625,000 | 62,775,000 | 836 | 1309 | 0.667813096 | NPSR1 |
| 4 | 62,700,000 | 62,850,000 | 837 | 1280 | 0.02298409 | |
| 4 | 62,775,000 | 62,925,000 | 838 | 837 | -1.131980581 | |
| 4 | 62,850,000 | 63,000,000 | 839 | 796 | -0.483514337 | |
| 4 | 62,925,000 | 63,075,000 | 840 | 771 | -0.18656811 | BMPER |
| 4 | 63,000,000 | 63,150,000 | 841 | 805 | 0.138394034 | BMPER |
| 4 | 63,075,000 | 63,225,000 | 842 | 871 | 0.418881949 | BMPER |
| 4 | 63,150,000 | 63,300,000 | 843 | 849 | 0.695824271 | BMPER |
| 4 | 63,225,000 | 63,375,000 | 844 | 765 | -0.013523291 | BMPER |
| 4 | 63,300,000 | 63,450,000 | 845 | 695 | -0.321559188 | BMPER |
| 4 | 63,375,000 | 63,525,000 | 846 | 634 | -0.536492933 | |
| 4 | 63,450,000 | 63,600,000 | 847 | 465 | -0.907258152 | |
| 4 | 63,525,000 | 63,675,000 | 848 | 359 | -0.299608023 | BBS9 |
| 4 | 63,600,000 | 63,750,000 | 849 | 386 | 0.163293562 | BBS9 |
| 4 | 63,675,000 | 63,825,000 | 850 | 525 | 0.630583126 | BBS9 |
| 4 | 63,750,000 | 63,900,000 | 851 | 505 | 0.77983634 | BBS9 |
| 4 | 63,825,000 | 63,975,000 | 852 | 415 | 0.425372859 | BBS9 |
| 4 | 63,900,000 | 64,050,000 | 853 | 593 | -0.105412528 | BBS9 |
| 4 | 63,975,000 | 64,125,000 | 854 | 724 | -0.23781959 | BBS9 |
| 4 | 64,050,000 | 64,200,000 | 855 | 512 | -0.46771158 | BBS9,NT5C3,RP9 |
| 4 | 64,125,000 | 64,275,000 | 856 | 620 | 0.141560573 | FKBP9,NT5C3,RP9 |
| 4 | 64,200,000 | 64,350,000 | 857 | 782 | 0.367265728 | FKBP9,KBTBD2,NT5C3 |
| 4 | 64,275,000 | 64,425,000 | 858 | 757 | 0.358561838 | AVL9,KBTBD2,LSM5 |
| 4 | 64,350,000 | 64,500,000 | 859 | 901 | 0.445721293 | AVL9,LSM5 |
| 4 | 64,425,000 | 64,575,000 | 860 | 845 | -0.486136379 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 64,500,000 | 64,650,000 | 861 | 541 | -1.271884429 | |
| 4 | 64,575,000 | 64,725,000 | 862 | 375 | -0.044531303 | |
| 4 | 64,650,000 | 64,800,000 | 863 | 513 | -0.413141606 | |
| 4 | 64,725,000 | 64,875,000 | 864 | 638 | 0.080264582 | |
| 4 | 64,800,000 | 64,950,000 | 865 | 818 | 0.546155761 | |
| 4 | 64,875,000 | 65,025,000 | 866 | 967 | 0.651829318 | PDE1C |
| 4 | 64,950,000 | 65,100,000 | 867 | 1130 | 0.054081589 | PDE1C |
| 4 | 65,025,000 | 65,175,000 | 868 | 1050 | -0.776388052 | PDE1C,PPP1R17 |
| 4 | 65,100,000 | 65,250,000 | 869 | 1027 | -0.094181111 | CCDC129,PPP1R17 |
| 4 | 65,175,000 | 65,325,000 | 870 | 1059 | -0.302366689 | CCDC129,PPP1R17 |
| 4 | 65,250,000 | 65,400,000 | 871 | 908 | -1.740472191 | CCDC129 |
| 4 | 65,325,000 | 65,475,000 | 872 | 855 | -1.18592094 | |
| 4 | 65,400,000 | 65,550,000 | 873 | 876 | 0.042659782 | NEUROD6 |
| 4 | 65,475,000 | 65,625,000 | 874 | 1068 | 0.704701613 | NEUROD6 |
| 4 | 65,550,000 | 65,700,000 | 875 | 1001 | 0.852148689 | ADCYAP1R1 |
| 4 | 65,625,000 | 65,775,000 | 876 | 860 | 0.857174038 | ADCYAP1R1 |
| 4 | 65,700,000 | 65,850,000 | 877 | 873 | 1.223393255 | ADCYAP1R1,AQP1,GHRHR |
| 4 | 65,775,000 | 65,925,000 | 878 | 1047 | 1.345469596 | AQP1,FAM188B,GHRHR |
| 4 | 65,850,000 | 66,000,000 | 879 | 1036 | 1.058169799 | FAM188B |
| 4 | 65,925,000 | 66,075,000 | 880 | 1287 | 0.154268841 | CRHR2,FAM188B,INMT |
| 4 | 66,000,000 | 66,150,000 | 881 | 1291 | 0.048412809 | CRHR2,GARS,INMT |
| 4 | 66,075,000 | 66,225,000 | 882 | 980 | 1.005950822 | CRHR2,GARS,GGCT |
| 4 | 66,150,000 | 66,300,000 | 883 | 1100 | 0.566656525 | GARS,GGCT,NOD1 |
| 4 | 66,225,000 | 66,375,000 | 884 | 1117 | 0.425418585 | NOD1,ZNRF2 |
| 4 | 66,300,000 | 66,450,000 | 885 | 1036 | 0.697522419 | NOD1,ZNRF2 |
| 4 | 66,375,000 | 66,525,000 | 886 | 849 | -1.32233979 | ZNRF2 |
| 4 | 66,450,000 | 66,600,000 | 887 | 512 | -1.381859533 | ZNRF2 |
| 4 | 66,525,000 | 66,675,000 | 888 | 526 | 1.271046466 | MTURN |
| 4 | 66,600,000 | 66,750,000 | 889 | 760 | 1.31226086 | MTURN,PLEKHA8 |
| 4 | 66,675,000 | 66,825,000 | 890 | 742 | 0.378995072 | FKBP14,PLEKHA8,SCRN1 |
| 4 | 66,750,000 | 66,900,000 | 891 | 761 | -0.81113605 | FKBP14,PLEKHA8,SCRN1,WIPF3 |
| 4 | 66,825,000 | 66,975,000 | 892 | 514 | -1.63516709 | SCRN1,WIPF3 |
| 4 | 66,900,000 | 67,050,000 | 893 | 707 | -0.528205446 | PRR15 |
| 4 | 66,975,000 | 67,125,000 | 894 | 902 | 0.049412254 | CHN2,PRR15 |
| 4 | 67,050,000 | 67,200,000 | 895 | 754 | 0.589614019 | CHN2 |
| 4 | 67,125,000 | 67,275,000 | 896 | 916 | 0.833437702 | CHN2 |
| 4 | 67,200,000 | 67,350,000 | 897 | 1022 | 0.851502246 | CHN2 |
| 4 | 67,275,000 | 67,425,000 | 898 | 876 | 0.891721799 | CHN2 |
| 4 | 67,350,000 | 67,500,000 | 899 | 620 | 0.659051793 | CHN2,CPVL |
| 4 | 67,425,000 | 67,575,000 | 900 | 518 | 0.592546676 | CPVL |
| 4 | 67,500,000 | 67,650,000 | 901 | 394 | 0.957900849 | CPVL |
| 4 | 67,575,000 | 67,725,000 | 902 | 376 | 0.608301673 | CPVL,TRIL |
| 4 | 67,650,000 | 67,800,000 | 903 | 353 | 0.25504786 | TRIL,ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,725,000 | 67,875,000 | 904 | 317 | 0.204108802 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,800,000 | 67,950,000 | 905 | 360 | -0.194131313 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,875,000 | 68,025,000 | 906 | 380 | 0.140079514 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,950,000 | 68,100,000 | 907 | 370 | -0.099642887 | ENSBTAG00000046308 |
| 4 | 68,025,000 | 68,175,000 | 908 | 323 | -0.471095375 | ENSBTAG00000046308 |
| 4 | 68,100,000 | 68,250,000 | 909 | 473 | -0.952063639 | ENSBTAG00000046308 |
| 4 | 68,175,000 | 68,325,000 | 910 | 653 | -0.468800222 | ENSBTAG00000046308 |
| 4 | 68,250,000 | 68,400,000 | 911 | 963 | 0.104238282 | |
| 4 | 68,325,000 | 68,475,000 | 912 | 1001 | 0.216004114 | JAZF1 |
| 4 | 68,400,000 | 68,550,000 | 913 | 857 | 0.892958782 | JAZF1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 4 | 68,475,000 | 68,625,000 | 914 | 981 | 1.024119664 | JAZF1 |
| 4 | 68,550,000 | 68,700,000 | 915 | 974 | 0.887999024 | JAZF1 |
| 4 | 68,625,000 | 68,775,000 | 916 | 977 | 0.954813259 | JAZF1 |
| 4 | 68,700,000 | 68,850,000 | 917 | 763 | 0.89799814 | JAZF1,TAX1BP1 |
| 4 | 68,775,000 | 68,925,000 | 918 | 722 | 0.847523462 | TAX1BP1 |
| 4 | 68,850,000 | 69,000,000 | 919 | 791 | 0.871760952 | HIBADH,TAX1BP1 |
| 4 | 68,925,000 | 69,075,000 | 920 | 719 | 0.771681033 | HIBADH |
| 4 | 69,000,000 | 69,150,000 | 921 | 904 | 0.812835259 | HIBADH |
| 4 | 69,075,000 | 69,225,000 | 922 | 729 | 0.8395531 | |
| 4 | 69,150,000 | 69,300,000 | 923 | 390 | 1.003249891 | EVX1,HOXA13 |
| 4 | 69,225,000 | 69,375,000 | 924 | 313 | 1.141034916 | EVX1,HOXA10,HOXA11,HOXA13,HOXA3,HOXA4,HOXA5,HOXA6,HOXA7,HOXA9 |
| 4 | 69,300,000 | 69,450,000 | 925 | 286 | 0.966749925 | HOXA1,HOXA10,HOXA11,HOXA2,HOXA3,HOXA4,HOXA5,HOXA6,HOXA7,HOXA9 |
| 4 | 69,375,000 | 69,525,000 | 926 | 401 | 1.009018171 | HOXA1,HOXA2,HOXA3 |
| 4 | 69,450,000 | 69,600,000 | 927 | 556 | 1.02731025 | SKAP2 |
| 4 | 69,525,000 | 69,675,000 | 928 | 658 | 0.855006965 | SKAP2 |
| 4 | 69,600,000 | 69,750,000 | 929 | 594 | 0.740652461 | SKAP2 |
| 4 | 69,675,000 | 69,825,000 | 930 | 719 | 0.223183039 | SKAP2 |
| 4 | 69,750,000 | 69,900,000 | 931 | 933 | 0.262218188 | SKAP2 |
| 4 | 69,825,000 | 69,975,000 | 932 | 1320 | -0.268893685 | |
| 4 | 69,900,000 | 70,050,000 | 933 | 1234 | -0.285265391 | SNX10 |
| 4 | 69,975,000 | 70,125,000 | 934 | 750 | 0.471615832 | SNX10 |
| 4 | 70,050,000 | 70,200,000 | 935 | 679 | 0.586311735 | HNRNPA2B1,SNX10 |
| 4 | 70,125,000 | 70,275,000 | 936 | 805 | 0.924955853 | HNRNPA2B1,NFE2L3 |
| 4 | 70,200,000 | 70,350,000 | 937 | 825 | 0.523567328 | HNRNPA2B1,NFE2L3 |
| 4 | 70,275,000 | 70,425,000 | 938 | 447 | 0.06167983 | |
| 4 | 70,350,000 | 70,500,000 | 939 | 230 | 0.34387128 | |
| 4 | 70,425,000 | 70,575,000 | 940 | 257 | 0.594402609 | |
| 4 | 70,500,000 | 70,650,000 | 941 | 399 | 0.772388865 | |
| 4 | 70,575,000 | 70,725,000 | 942 | 426 | 0.978823957 | |
| 4 | 70,650,000 | 70,800,000 | 943 | 299 | 0.560492972 | |
| 4 | 70,725,000 | 70,875,000 | 944 | 385 | 0.215065152 | |
| 4 | 70,800,000 | 70,950,000 | 945 | 538 | 0.829980095 | |
| 4 | 70,875,000 | 71,025,000 | 946 | 503 | 0.591206305 | |
| 4 | 70,950,000 | 71,100,000 | 947 | 661 | 1.234600045 | |
| 4 | 71,025,000 | 71,175,000 | 948 | 877 | 1.393550802 | C7orf31,NPVF |
| 4 | 71,100,000 | 71,250,000 | 949 | 656 | 1.032435696 | C7orf31,CYCS,NPVF |
| 4 | 71,175,000 | 71,325,000 | 950 | 615 | 0.6900848 | C7orf31,CYCS |
| 4 | 71,250,000 | 71,400,000 | 951 | 670 | 0.726672978 | OSBPL3 |
| 4 | 71,325,000 | 71,475,000 | 952 | 921 | -0.717230624 | OSBPL3 |
| 4 | 71,400,000 | 71,550,000 | 953 | 1265 | -1.070615003 | DFNA5,OSBPL3,ENSBTAG00000046586 |
| 4 | 71,475,000 | 71,625,000 | 954 | 1129 | -0.697365857 | DFNA5,OSBPL3,ENSBTAG00000046586 |
| 4 | 71,550,000 | 71,700,000 | 955 | 834 | -0.141222963 | DFNA5,MPP6 |
| 4 | 71,625,000 | 71,775,000 | 956 | 580 | 0.571670842 | MPP6 |
| 4 | 71,700,000 | 71,850,000 | 957 | 485 | -0.249652514 | |
| 4 | 71,775,000 | 71,925,000 | 958 | 511 | -1.215313274 | |
| 4 | 71,850,000 | 72,000,000 | 959 | 576 | -0.329470973 | |
| 4 | 71,925,000 | 72,075,000 | 960 | 576 | -0.447598063 | NPY |
| 4 | 72,000,000 | 72,150,000 | 961 | 645 | -1.874435114 | NPY |
| 4 | 72,075,000 | 72,225,000 | 962 | 581 | -0.712175781 | NPY |
| 4 | 72,150,000 | 72,300,000 | 963 | 582 | 0.887751025 | |
| 4 | 72,225,000 | 72,375,000 | 964 | 601 | 0.868906542 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 4 | 72,300,000 | 72,450,000 | 965 | 510 | 0.629723874 | STK31 |
| 4 | 72,375,000 | 72,525,000 | 966 | 437 | 0.523661784 | MGC134574,STK31 |
| 4 | 72,450,000 | 72,600,000 | 967 | 383 | 0.679825588 | MGC134574,STK31,ENSBTAG00000046457 |
| 4 | 72,525,000 | 72,675,000 | 968 | 493 | -0.015549269 | ENSBTAG00000046457 |
| 4 | 72,600,000 | 72,750,000 | 969 | 644 | 0.542123085 | ADAM22 |
| 4 | 72,675,000 | 72,825,000 | 970 | 576 | 0.394919353 | ADAM22,SRI |
| 4 | 72,750,000 | 72,900,000 | 971 | 645 | 0.375627665 | ADAM22,SRI,STEAP4 |
| 4 | 72,825,000 | 72,975,000 | 972 | 680 | 0.68261325 | STEAP4 |
| 4 | 72,900,000 | 73,050,000 | 973 | 731 | 0.302840401 | |
| 4 | 72,975,000 | 73,125,000 | 974 | 1020 | 0.328974029 | |
| 4 | 73,050,000 | 73,200,000 | 975 | 759 | 0.323843912 | |
| 4 | 73,125,000 | 73,275,000 | 976 | 1053 | 0.692375597 | |
| 4 | 73,200,000 | 73,350,000 | 977 | 1488 | 0.267397449 | ZNF804B |
| 4 | 73,275,000 | 73,425,000 | 978 | 1026 | 0.065721616 | C4H7orf62,ZNF804B |
| 4 | 73,350,000 | 73,500,000 | 979 | 633 | 0.305332198 | C4H7orf62,ZNF804B |
| 4 | 73,425,000 | 73,575,000 | 980 | 788 | -3.999643549 | ZNF804B |
| 4 | 73,500,000 | 73,650,000 | 981 | 1117 | -4.146435068 | ZNF804B,ENSBTAG00000015800 |
| 4 | 73,575,000 | 73,725,000 | 982 | 1255 | -0.994194948 | ZNF804B,ENSBTAG00000015800 |
| 4 | 73,650,000 | 73,800,000 | 983 | 900 | 0.556847586 | ZNF804B |
| 4 | 73,725,000 | 73,875,000 | 984 | 838 | 1.262571558 | ZNF804B |
| 4 | 73,800,000 | 73,950,000 | 985 | 1070 | 1.30036781 | ZNF804B |
| 4 | 73,875,000 | 74,025,000 | 986 | 1360 | 1.111808726 | ZNF804B |
| 4 | 73,950,000 | 74,100,000 | 987 | 1263 | 0.975979001 | |
| 4 | 74,025,000 | 74,175,000 | 988 | 1004 | 0.307060211 | |
| 4 | 74,100,000 | 74,250,000 | 989 | 1176 | 0.588858731 | |
| 4 | 74,175,000 | 74,325,000 | 990 | 1173 | -1.043632888 | |
| 4 | 74,250,000 | 74,400,000 | 991 | 1195 | -1.9461117 | |
| 4 | 74,325,000 | 74,475,000 | 992 | 1282 | 0.38569931 | |
| 4 | 74,400,000 | 74,550,000 | 993 | 1231 | 0.733398333 | |
| 4 | 74,475,000 | 74,625,000 | 994 | 754 | 0.549619468 | |
| 4 | 74,550,000 | 74,700,000 | 995 | 496 | 0.538016129 | |
| 4 | 74,625,000 | 74,775,000 | 996 | 664 | 0.569912048 | |
| 4 | 74,700,000 | 74,850,000 | 997 | 961 | -0.714689231 | ENSBTAG00000015749 |
| 4 | 74,775,000 | 74,925,000 | 998 | 1117 | -0.809855104 | CFAP69,STEAP2,ENSBTAG00000015749 |
| 4 | 74,850,000 | 75,000,000 | 999 | 965 | 0.248012477 | CFAP69,STEAP2 |
| 4 | 74,925,000 | 75,075,000 | 1000 | 736 | 0.22107957 | CFAP69,GTPBP10 |
| 4 | 75,000,000 | 75,150,000 | 1001 | 732 | 0.295601369 | GTPBP10,HUS1,ENSBTAG00000047435 |
| 4 | 75,075,000 | 75,225,000 | 1002 | 1092 | 0.722286854 | GTPBP10,HUS1,ENSBTAG00000047435 |
| 4 | 75,150,000 | 75,300,000 | 1003 | 1316 | 0.781993909 | HUS1 |
| 4 | 75,225,000 | 75,375,000 | 1004 | 1074 | 0.844708838 | |
| 4 | 75,300,000 | 75,450,000 | 1005 | 1108 | 0.985457988 | |
| 4 | 75,375,000 | 75,525,000 | 1006 | 1102 | 0.597480315 | TNS3 |
| 4 | 75,450,000 | 75,600,000 | 1007 | 1116 | 0.214524783 | TNS3 |
| 4 | 75,525,000 | 75,675,000 | 1008 | 1137 | 0.083447086 | TNS3 |
| 4 | 75,600,000 | 75,750,000 | 1009 | 912 | 0.104609819 | |
| 4 | 75,675,000 | 75,825,000 | 1010 | 889 | -1.845096939 | |
| 4 | 75,750,000 | 75,900,000 | 1011 | 788 | -1.575637917 | |
| 4 | 75,825,000 | 75,975,000 | 1012 | 775 | 0.591460592 | |
| 4 | 75,900,000 | 76,050,000 | 1013 | 840 | 0.543190372 | |
| 4 | 75,975,000 | 76,125,000 | 1014 | 762 | -0.218275235 | |
| 4 | 76,050,000 | 76,200,000 | 1015 | 848 | -0.795721534 | |
| 4 | 76,125,000 | 76,275,000 | 1016 | 973 | -0.349216239 | |
| 4 | 76,200,000 | 76,350,000 | 1017 | 872 | -0.603389839 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 76,275,000 | 76,425,000 | 1018 | 1128 | -0.334417247 | |
| 4 | 76,350,000 | 76,500,000 | 1019 | 1120 | -0.048789829 | |
| 4 | 76,425,000 | 76,575,000 | 1020 | 665 | -0.555704857 | |
| 4 | 76,500,000 | 76,650,000 | 1021 | 447 | -0.406130276 | |
| 4 | 76,575,000 | 76,725,000 | 1022 | 293 | -0.164867432 | IGFBP1,IGFBP3 |
| 4 | 76,650,000 | 76,800,000 | 1023 | 289 | 0.690472067 | IGFBP1,IGFBP3 |
| 4 | 76,725,000 | 76,875,000 | 1024 | 332 | 0.600400608 | ADCY1,IGFBP1 |
| 4 | 76,800,000 | 76,950,000 | 1025 | 699 | -0.031151101 | ADCY1 |
| 4 | 76,875,000 | 77,025,000 | 1026 | 1099 | -0.429342612 | ADCY1 |
| 4 | 76,950,000 | 77,100,000 | 1027 | 1112 | -1.180025505 | ADCY1 |
| 4 | 77,025,000 | 77,175,000 | 1028 | 1012 | -0.227881053 | RAMP3 |
| 4 | 77,100,000 | 77,250,000 | 1029 | 677 | -0.064662229 | NACAD,RAMP3,TBRG4,ENSBTAG00000046334 |
| 4 | 77,175,000 | 77,325,000 | 1030 | 389 | -1.18545003 | CCM2,MYO1G,NACAD,RAMP3,TBRG4,ENSBTAG00000046334 |
| 4 | 77,250,000 | 77,400,000 | 1031 | 366 | -0.49363894 | CCM2,H2AFV,MYO1G,PURB |
| 4 | 77,325,000 | 77,475,000 | 1032 | 376 | -0.09076179 | H2AFV,MYO1G,OGDH,PPIA,PURB,ZMIZ2 |
| 4 | 77,400,000 | 77,550,000 | 1033 | 309 | 0.106159532 | DDX56,H2AFV,OGDH,PPIA,TMED4,ZMIZ2 |
| 4 | 77,475,000 | 77,625,000 | 1034 | 286 | -0.15084069 | DDX56,NPC1L1,NUDCD3,OGDH,TMED4 |
| 4 | 77,550,000 | 77,700,000 | 1035 | 368 | 0.04787073 | DDX56,NPC1L1,NUDCD3 |
| 4 | 77,625,000 | 77,775,000 | 1036 | 505 | 0.488276932 | CAMK2B,NUDCD3 |
| 4 | 77,700,000 | 77,850,000 | 1037 | 710 | 0.508379888 | CAMK2B,GCK,YKT6 |
| 4 | 77,775,000 | 77,925,000 | 1038 | 578 | 0.465623717 | AEBP1,CAMK2B,GCK,MYL7,POLD2,POLM,YKT6 |
| 4 | 77,850,000 | 78,000,000 | 1039 | 419 | 0.767583924 | AEBP1,BLVRA,GCK,MYL7,POLD2,POLM |
| 4 | 77,925,000 | 78,075,000 | 1040 | 662 | -0.502652668 | BLVRA |
| 4 | 78,000,000 | 78,150,000 | 1041 | 991 | -0.268279701 | BLVRA,FLJ10803 |
| 4 | 78,075,000 | 78,225,000 | 1042 | 1150 | 0.723990788 | FLJ10803,HECW1,STK17A |
| 4 | 78,150,000 | 78,300,000 | 1043 | 1055 | 0.707402221 | HECW1,STK17A |
| 4 | 78,225,000 | 78,375,000 | 1044 | 1071 | -0.325468428 | HECW1 |
| 4 | 78,300,000 | 78,450,000 | 1045 | 1173 | -1.413477325 | HECW1 |
| 4 | 78,375,000 | 78,525,000 | 1046 | 812 | -1.198702465 | HECW1 |
| 4 | 78,450,000 | 78,600,000 | 1047 | 613 | -1.095176532 | HECW1 |
| 4 | 78,525,000 | 78,675,000 | 1048 | 673 | -0.931938342 | |
| 4 | 78,600,000 | 78,750,000 | 1049 | 547 | -2.595190123 | |
| 4 | 78,675,000 | 78,825,000 | 1050 | 500 | -3.482051353 | MRPL32,PSMA2 |
| 4 | 78,750,000 | 78,900,000 | 1051 | 466 | -1.940757672 | C7orf25,MRPL32,PSMA2 |
| 4 | 78,825,000 | 78,975,000 | 1052 | 363 | -1.923311727 | C7orf25,PSMA2 |
| 4 | 78,900,000 | 79,050,000 | 1053 | 371 | -1.121906371 | |
| 4 | 78,975,000 | 79,125,000 | 1054 | 376 | -0.331819594 | |
| 4 | 79,050,000 | 79,200,000 | 1055 | 348 | -0.251815263 | |
| 4 | 79,125,000 | 79,275,000 | 1056 | 590 | 0.260712454 | |
| 4 | 79,200,000 | 79,350,000 | 1057 | 613 | 0.521784981 | |
| 4 | 79,275,000 | 79,425,000 | 1058 | 430 | 0.396742192 | |
| 4 | 79,350,000 | 79,500,000 | 1059 | 396 | -0.145412048 | GLI3 |
| 4 | 79,425,000 | 79,575,000 | 1060 | 529 | 0.265695008 | GLI3 |
| 4 | 79,500,000 | 79,650,000 | 1061 | 566 | 0.423094161 | GLI3 |
| 4 | 79,575,000 | 79,725,000 | 1062 | 633 | 0.443498285 | GLI3 |
| 4 | 79,650,000 | 79,800,000 | 1063 | 974 | 0.655999253 | GLI3 |
| 4 | 79,725,000 | 79,875,000 | 1064 | 1059 | 0.776677034 | GLI3 |
| 4 | 79,800,000 | 79,950,000 | 1065 | 889 | 0.58553367 | |
| 4 | 79,875,000 | 80,025,000 | 1066 | 604 | -0.312142656 | INHBA |
| 4 | 79,950,000 | 80,100,000 | 1067 | 403 | -1.448981887 | INHBA |
| 4 | 80,025,000 | 80,175,000 | 1068 | 474 | -1.992785198 | |
| 4 | 80,100,000 | 80,250,000 | 1069 | 565 | -3.805904182 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 80,175,000 | 80,325,000 | 1070 | 401 | -4.430924233 | |
| 4 | 80,250,000 | 80,400,000 | 1071 | 229 | -0.212959512 | |
| 4 | 80,325,000 | 80,475,000 | 1072 | 281 | 0.829856941 | |
| 4 | 80,400,000 | 80,550,000 | 1073 | 452 | 0.534709203 | |
| 4 | 80,475,000 | 80,625,000 | 1074 | 645 | 0.62213981 | |
| 4 | 80,550,000 | 80,700,000 | 1075 | 529 | -0.778578436 | |
| 4 | 80,625,000 | 80,775,000 | 1076 | 447 | -1.125851767 | |
| 4 | 80,700,000 | 80,850,000 | 1077 | 676 | 0.416164612 | |
| 4 | 80,775,000 | 80,925,000 | 1078 | 851 | 0.474165587 | SUGCT |
| 4 | 80,850,000 | 81,000,000 | 1079 | 742 | 0.350324536 | SUGCT |
| 4 | 80,925,000 | 81,075,000 | 1080 | 583 | 0.191552373 | SUGCT |
| 4 | 81,000,000 | 81,150,000 | 1081 | 788 | 0.092255802 | SUGCT |
| 4 | 81,075,000 | 81,225,000 | 1082 | 1050 | 0.48201899 | SUGCT |
| 4 | 81,150,000 | 81,300,000 | 1083 | 1070 | 0.680947832 | SUGCT |
| 4 | 81,225,000 | 81,375,000 | 1084 | 1112 | 0.862518381 | SUGCT |
| 4 | 81,300,000 | 81,450,000 | 1085 | 1012 | 1.061319596 | SUGCT |
| 4 | 81,375,000 | 81,525,000 | 1086 | 1157 | 0.990009951 | SUGCT |
| 4 | 81,450,000 | 81,600,000 | 1087 | 1355 | 0.956089681 | SUGCT |
| 4 | 81,525,000 | 81,675,000 | 1088 | 1066 | 0.278428881 | C4H7ORF11,CDK13,SUGCT |
| 4 | 81,600,000 | 81,750,000 | 1089 | 793 | -0.771502454 | C4H7ORF11,CDK13,SUGCT |
| 4 | 81,675,000 | 81,825,000 | 1090 | 903 | -0.696487514 | CDK13 |
| 4 | 81,750,000 | 81,900,000 | 1091 | 1106 | -0.654372456 | CDK13 |
| 4 | 81,825,000 | 81,975,000 | 1092 | 1322 | -0.414725847 | RALA |
| 4 | 81,900,000 | 82,050,000 | 1093 | 1255 | -0.14563529 | RALA,YAE1D1 |
| 4 | 81,975,000 | 82,125,000 | 1094 | 958 | -0.01709707 | POU6F2,YAE1D1 |
| 4 | 82,050,000 | 82,200,000 | 1095 | 1228 | 0.243282637 | POU6F2 |
| 4 | 82,125,000 | 82,275,000 | 1096 | 1691 | 0.645533462 | POU6F2 |
| 4 | 82,200,000 | 82,350,000 | 1097 | 1571 | 0.403158558 | POU6F2 |
| 4 | 82,275,000 | 82,425,000 | 1098 | 1230 | 0.305055533 | POU6F2 |
| 4 | 82,350,000 | 82,500,000 | 1099 | 859 | 0.333802734 | POU6F2 |
| 4 | 82,425,000 | 82,575,000 | 1100 | 540 | 0.347341917 | POU6F2 |
| 4 | 82,500,000 | 82,650,000 | 1101 | 574 | 0.779858732 | |
| 4 | 82,575,000 | 82,725,000 | 1102 | 525 | 0.003501346 | VPS41 |
| 4 | 82,650,000 | 82,800,000 | 1103 | 624 | 0.01214951 | VPS41 |
| 4 | 82,725,000 | 82,875,000 | 1104 | 627 | -0.216796341 | VPS41 |
| 4 | 82,800,000 | 82,950,000 | 1105 | 542 | 0.199325587 | VPS41 |
| 4 | 82,875,000 | 83,025,000 | 1106 | 736 | 0.548744585 | VPS41 |
| 4 | 82,950,000 | 83,100,000 | 1107 | 951 | 0.439325149 | AMPH |
| 4 | 83,025,000 | 83,175,000 | 1108 | 910 | 0.857393625 | AMPH |
| 4 | 83,100,000 | 83,250,000 | 1109 | 734 | 0.800794585 | AMPH |
| 4 | 83,175,000 | 83,325,000 | 1110 | 1013 | 0.937713598 | AMPH,TRGV11,ENSBTAG00000000144 |
| 4 | 83,250,000 | 83,400,000 | 1111 | 1925 | 1.108851058 | TRGV11,ENSBTAG00000000144,ENSBTAG00000010300 |
| 4 | 83,325,000 | 83,475,000 | 1112 | 2491 | 0.889003139 | ENSBTAG00000002859,ENSBTAG00000010300,ENSBTAG0000047684 |
| 4 | 83,400,000 | 83,550,000 | 1113 | 1768 | -0.034047698 | LSM8,ENSBTAG00000002859,ENSBTAG00000010300,ENSBTAG00000047684 |
| 4 | 83,475,000 | 83,625,000 | 1114 | 1272 | -1.675622326 | LSM8,ENSBTAG00000002859 |
| 4 | 83,550,000 | 83,700,000 | 1115 | 1145 | -0.662057392 | |
| 4 | 83,625,000 | 83,775,000 | 1116 | 912 | 0.282712516 | |
| 4 | 83,700,000 | 83,850,000 | 1117 | 1351 | -0.033988418 | |
| 4 | 83,775,000 | 83,925,000 | 1118 | 1318 | -0.036640889 | |
| 4 | 83,850,000 | 84,000,000 | 1119 | 951 | 0.214174613 | |
| 4 | 83,925,000 | 84,075,000 | 1120 | 1041 | 0.614095715 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------|
| 4 | 84,000,000 | 84,150,000 | 1121 | 1040 | 1.038019797 | |
| 4 | 84,075,000 | 84,225,000 | 1122 | 937 | 0.584962668 | |
| 4 | 84,150,000 | 84,300,000 | 1123 | 1403 | 0.913123058 | |
| 4 | 84,225,000 | 84,375,000 | 1124 | 1425 | 1.10405394 | |
| 4 | 84,300,000 | 84,450,000 | 1125 | 1025 | 0.090400839 | |
| 4 | 84,375,000 | 84,525,000 | 1126 | 1120 | -0.396128312 | |
| 4 | 84,450,000 | 84,600,000 | 1127 | 953 | -0.760934302 | |
| 4 | 84,525,000 | 84,675,000 | 1128 | 721 | -0.290262748 | |
| 4 | 84,600,000 | 84,750,000 | 1129 | 766 | 0.607531732 | |
| 4 | 84,675,000 | 84,825,000 | 1130 | 1227 | 0.921036049 | |
| 4 | 84,750,000 | 84,900,000 | 1131 | 1200 | 1.177938589 | |
| 4 | 84,825,000 | 84,975,000 | 1132 | 581 | 0.911951385 | |
| 4 | 84,900,000 | 85,050,000 | 1133 | 518 | 0.299449765 | |
| 4 | 84,975,000 | 85,125,000 | 1134 | 790 | 0.560635352 | |
| 4 | 85,050,000 | 85,200,000 | 1135 | 987 | 0.511911794 | |
| 4 | 85,125,000 | 85,275,000 | 1136 | 826 | 0.432576211 | |
| 4 | 85,200,000 | 85,350,000 | 1137 | 592 | 0.928764083 | |
| 4 | 85,275,000 | 85,425,000 | 1138 | 640 | 1.285233843 | |
| 4 | 85,350,000 | 85,500,000 | 1139 | 463 | 1.223911425 | KCND2 |
| 4 | 85,425,000 | 85,575,000 | 1140 | 520 | 0.700832162 | KCND2 |
| 4 | 85,500,000 | 85,650,000 | 1141 | 715 | 0.584411778 | KCND2 |
| 4 | 85,575,000 | 85,725,000 | 1142 | 748 | 0.706542387 | KCND2 |
| 4 | 85,650,000 | 85,800,000 | 1143 | 1115 | 0.950911654 | KCND2 |
| 4 | 85,725,000 | 85,875,000 | 1144 | 914 | 0.858863854 | KCND2 |
| 4 | 85,800,000 | 85,950,000 | 1145 | 748 | -0.075530501 | KCND2 |
| 4 | 85,875,000 | 86,025,000 | 1146 | 1111 | -0.70331394 | KCND2 |
| 4 | 85,950,000 | 86,100,000 | 1147 | 1063 | -0.684223944 | KCND2,TSPAN12 |
| 4 | 86,025,000 | 86,175,000 | 1148 | 959 | 0.408916744 | TSPAN12 |
| 4 | 86,100,000 | 86,250,000 | 1149 | 738 | 0.636896411 | ING3,TSPAN12 |
| 4 | 86,175,000 | 86,325,000 | 1150 | 626 | 0.305413292 | CPED1,ING3 |
| 4 | 86,250,000 | 86,400,000 | 1151 | 1102 | 1.006242431 | CPED1 |
| 4 | 86,325,000 | 86,475,000 | 1152 | 1282 | 1.062275209 | CPED1 |
| 4 | 86,400,000 | 86,550,000 | 1153 | 970 | 0.805376986 | CPED1 |
| 4 | 86,475,000 | 86,625,000 | 1154 | 646 | 0.742023483 | CPED1,FAM3C,WNT16 |
| 4 | 86,550,000 | 86,700,000 | 1155 | 498 | 0.32255556 | CPED1,FAM3C,WNT16 |
| 4 | 86,625,000 | 86,775,000 | 1156 | 629 | 0.124278828 | FAM3C |
| 4 | 86,700,000 | 86,850,000 | 1157 | 902 | 0.480160792 | |
| 4 | 86,775,000 | 86,925,000 | 1158 | 1243 | 0.762094834 | |
| 4 | 86,850,000 | 87,000,000 | 1159 | 1306 | 0.811517336 | |
| 4 | 86,925,000 | 87,075,000 | 1160 | 879 | 0.36018303 | |
| 4 | 87,000,000 | 87,150,000 | 1161 | 756 | 0.281201563 | PTPRZ1 |
| 4 | 87,075,000 | 87,225,000 | 1162 | 762 | 1.021399045 | PTPRZ1 |
| 4 | 87,150,000 | 87,300,000 | 1163 | 423 | 0.783189876 | PTPRZ1 |
| 4 | 87,225,000 | 87,375,000 | 1164 | 313 | -0.606335041 | AASS,PTPRZ1 |
| 4 | 87,300,000 | 87,450,000 | 1165 | 460 | 0.124121021 | AASS |
| 4 | 87,375,000 | 87,525,000 | 1166 | 682 | 0.435540856 | CADPS2,FEZF1 |
| 4 | 87,450,000 | 87,600,000 | 1167 | 477 | 0.413518218 | CADPS2,FEZF1 |
| 4 | 87,525,000 | 87,675,000 | 1168 | 474 | -0.977869078 | CADPS2 |
| 4 | 87,600,000 | 87,750,000 | 1169 | 752 | -1.402785604 | CADPS2 |
| 4 | 87,675,000 | 87,825,000 | 1170 | 1060 | -0.853569839 | CADPS2 |
| 4 | 87,750,000 | 87,900,000 | 1171 | 1336 | 0.399916244 | CADPS2 |
| 4 | 87,825,000 | 87,975,000 | 1172 | 1207 | 1.06648535 | CADPS2 |
| 4 | 87,900,000 | 88,050,000 | 1173 | 1045 | 0.699578312 | CADPS2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 87,975,000 | 88,125,000 | 1174 | 872 | 0.703191153 | CADPS2 |
| 4 | 88,050,000 | 88,200,000 | 1175 | 728 | 0.751548467 | CADPS2,TAS2R16 |
| 4 | 88,125,000 | 88,275,000 | 1176 | 647 | 0.746796667 | SLC13A1,TAS2R16 |
| 4 | 88,200,000 | 88,350,000 | 1177 | 624 | 0.832234572 | SLC13A1 |
| 4 | 88,275,000 | 88,425,000 | 1178 | 552 | 0.242484313 | SLC13A1 |
| 4 | 88,350,000 | 88,500,000 | 1179 | 450 | -0.635422387 | SLC13A1 |
| 4 | 88,425,000 | 88,575,000 | 1180 | 285 | -1.213356623 | IQUB |
| 4 | 88,500,000 | 88,650,000 | 1181 | 163 | -0.675548602 | IQUB |
| 4 | 88,575,000 | 88,725,000 | 1182 | 243 | -1.264997632 | ASB15,IQUB,NDUFA5 |
| 4 | 88,650,000 | 88,800,000 | 1183 | 485 | -0.960461419 | ASB15,LMOD2,NDUFA5,WASL |
| 4 | 88,725,000 | 88,875,000 | 1184 | 603 | -1.120834049 | ASB15,LMOD2,WASL |
| 4 | 88,800,000 | 88,950,000 | 1185 | 662 | -1.671750298 | WASL |
| 4 | 88,875,000 | 89,025,000 | 1186 | 1090 | -0.913673323 | HYAL4,ENSBTAG00000004640 |
| 4 | 88,950,000 | 89,100,000 | 1187 | 1225 | -0.109205889 | HYAL4,ENSBTAG00000004640,ENSBTAG00000040349 |
| 4 | 89,025,000 | 89,175,000 | 1188 | 921 | 0.612916487 | ENSBTAG00000031958,ENSBTAG00000040349 |
| 4 | 89,100,000 | 89,250,000 | 1189 | 803 | 0.681679923 | ENSBTAG00000031958 |
| 4 | 89,175,000 | 89,325,000 | 1190 | 1206 | 0.730129667 | |
| 4 | 89,250,000 | 89,400,000 | 1191 | 1285 | 0.483778504 | |
| 4 | 89,325,000 | 89,475,000 | 1192 | 1100 | 0.744496115 | |
| 4 | 89,400,000 | 89,550,000 | 1193 | 1034 | 0.857256447 | |
| 4 | 89,475,000 | 89,625,000 | 1194 | 893 | 0.380251921 | |
| 4 | 89,550,000 | 89,700,000 | 1195 | 631 | -0.078940439 | |
| 4 | 89,625,000 | 89,775,000 | 1196 | 446 | -1.555499484 | |
| 4 | 89,700,000 | 89,850,000 | 1197 | 564 | -0.943408512 | GPR37 |
| 4 | 89,775,000 | 89,925,000 | 1198 | 903 | -1.349222287 | GPR37,POT1 |
| 4 | 89,850,000 | 90,000,000 | 1199 | 1157 | -2.337223896 | POT1 |
| 4 | 89,925,000 | 90,075,000 | 1200 | 1324 | -0.717802766 | POT1 |
| 4 | 90,000,000 | 90,150,000 | 1201 | 1325 | -0.362943823 | |
| 4 | 90,075,000 | 90,225,000 | 1202 | 1198 | -1.133976287 | |
| 4 | 90,150,000 | 90,300,000 | 1203 | 1121 | 0.074192667 | |
| 4 | 90,225,000 | 90,375,000 | 1204 | 921 | 0.018295125 | |
| 4 | 90,300,000 | 90,450,000 | 1205 | 1166 | 0.518723189 | |
| 4 | 90,375,000 | 90,525,000 | 1206 | 1265 | 0.259251632 | |
| 4 | 90,450,000 | 90,600,000 | 1207 | 1272 | -0.127682906 | |
| 4 | 90,525,000 | 90,675,000 | 1208 | 1332 | -0.006088259 | |
| 4 | 90,600,000 | 90,750,000 | 1209 | 1349 | 0.20742857 | |
| 4 | 90,675,000 | 90,825,000 | 1210 | 1228 | 0.723446722 | |
| 4 | 90,750,000 | 90,900,000 | 1211 | 1268 | -0.32766351 | |
| 4 | 90,825,000 | 90,975,000 | 1212 | 1365 | -1.103745782 | |
| 4 | 90,900,000 | 91,050,000 | 1213 | 1354 | -0.258645875 | |
| 4 | 90,975,000 | 91,125,000 | 1214 | 1559 | 0.585145316 | |
| 4 | 91,050,000 | 91,200,000 | 1215 | 1597 | -0.88340042 | |
| 4 | 91,125,000 | 91,275,000 | 1216 | 1423 | -2.878095045 | |
| 4 | 91,200,000 | 91,350,000 | 1217 | 971 | -2.759966617 | |
| 4 | 91,275,000 | 91,425,000 | 1218 | 895 | -0.990774824 | |
| 4 | 91,350,000 | 91,500,000 | 1219 | 1038 | 0.282289216 | |
| 4 | 91,425,000 | 91,575,000 | 1220 | 1003 | 0.367528698 | |
| 4 | 91,500,000 | 91,650,000 | 1221 | 921 | 0.501089808 | |
| 4 | 91,575,000 | 91,725,000 | 1222 | 601 | 0.467624534 | |
| 4 | 91,650,000 | 91,800,000 | 1223 | 936 | -0.117815761 | |
| 4 | 91,725,000 | 91,875,000 | 1224 | 1285 | -0.491486591 | |
| 4 | 91,800,000 | 91,950,000 | 1225 | 1235 | -0.182925613 | |
| 4 | 91,875,000 | 92,025,000 | 1226 | 1187 | 0.572113075 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 4 | 91,950,000 | 92,100,000 | 1227 | 1128 | 0.9388069 | |
| 4 | 92,025,000 | 92,175,000 | 1228 | 1338 | 1.091297735 | |
| 4 | 92,100,000 | 92,250,000 | 1229 | 1040 | 1.138027608 | |
| 4 | 92,175,000 | 92,325,000 | 1230 | 616 | 0.561129148 | |
| 4 | 92,250,000 | 92,400,000 | 1231 | 526 | 0.140696437 | |
| 4 | 92,325,000 | 92,475,000 | 1232 | 391 | 0.700341196 | ZNF800 |
| 4 | 92,400,000 | 92,550,000 | 1233 | 305 | -0.007621457 | ZNF800 |
| 4 | 92,475,000 | 92,625,000 | 1234 | 866 | 0.69455708 | ARF5,GCC1 |
| 4 | 92,550,000 | 92,700,000 | 1235 | 1219 | 0.976897526 | ARF5,FSCN3,GCC1,PAX4,SND1 |
| 4 | 92,625,000 | 92,775,000 | 1236 | 1036 | 1.009576722 | ARF5,FSCN3,PAX4,SND1 |
| 4 | 92,700,000 | 92,850,000 | 1237 | 858 | 1.039154466 | SND1 |
| 4 | 92,775,000 | 92,925,000 | 1238 | 757 | 0.902047005 | SND1 |
| 4 | 92,850,000 | 93,000,000 | 1239 | 1107 | 0.883121543 | LRRC4,SND1 |
| 4 | 92,925,000 | 93,075,000 | 1240 | 1094 | 0.602624439 | LRRC4,SND1 |
| 4 | 93,000,000 | 93,150,000 | 1241 | 1078 | 0.765611348 | LRRC4,SND1 |
| 4 | 93,075,000 | 93,225,000 | 1242 | 1353 | 0.987361692 | SND1 |
| 4 | 93,150,000 | 93,300,000 | 1243 | 1480 | 0.48499172 | OB |
| 4 | 93,225,000 | 93,375,000 | 1244 | 1315 | 0.429394023 | OB,PRRT4,RBM28 |
| 4 | 93,300,000 | 93,450,000 | 1245 | 818 | 0.673170804 | IMPDH1,PRRT4,RBM28,ENSBTAG00000031866 |
| 4 | 93,375,000 | 93,525,000 | 1246 | 762 | 0.777751417 | FAM71F1,FAM71F2,HIG2,IMPDH1,ENSBTAG00000031866 |
| 4 | 93,450,000 | 93,600,000 | 1247 | 797 | 0.977010979 | CALU,CCDC136,FAM71F1,FAM71F2,HIG2,OPN1SW |
| 4 | 93,525,000 | 93,675,000 | 1248 | 611 | 0.94632671 | ATP6V1F,CALU,CCDC136,FLNC,KCP,OPN1SW,ENSBTAG0000045645 |
| 4 | 93,600,000 | 93,750,000 | 1249 | 614 | 0.836309033 | ATP6V1F,CCDC136,FLNC,IRF5,KCP,TNPO3,ENSBTAG0000045645 |
| 4 | 93,675,000 | 93,825,000 | 1250 | 626 | 0.862518897 | IRF5,KCP,TNPO3 |
| 4 | 93,750,000 | 93,900,000 | 1251 | 596 | 1.020826129 | TNPO3,TSPAN33 |
| 4 | 93,825,000 | 93,975,000 | 1252 | 521 | 1.181028346 | AHCYL2,SMO,TSPAN33 |
| 4 | 93,900,000 | 94,050,000 | 1253 | 566 | 1.006979792 | AHCYL2,SMO,TSPAN33 |
| 4 | 93,975,000 | 94,125,000 | 1254 | 766 | 1.032207445 | AHCYL2 |
| 4 | 94,050,000 | 94,200,000 | 1255 | 812 | 1.10222548 | AHCYL2,STRIP2 |
| 4 | 94,125,000 | 94,275,000 | 1256 | 863 | 0.843935243 | AHCYL2,NRF1,STRIP2 |
| 4 | 94,200,000 | 94,350,000 | 1257 | 698 | 0.737771543 | NRF1,STRIP2 |
| 4 | 94,275,000 | 94,425,000 | 1258 | 356 | 0.858632594 | NRF1 |
| 4 | 94,350,000 | 94,500,000 | 1259 | 207 | 0.659360626 | NRF1,UBE2H,ENSBTAG00000047845 |
| 4 | 94,425,000 | 94,575,000 | 1260 | 146 | 0.179708628 | UBE2H,ENSBTAG00000047845 |
| 4 | 94,500,000 | 94,650,000 | 1261 | 202 | -0.927271425 | UBE2H,ZC3HC1 |
| 4 | 94,575,000 | 94,725,000 | 1262 | 237 | -0.771653699 | KLHDC10,ZC3HC1 |
| 4 | 94,650,000 | 94,800,000 | 1263 | 259 | -0.582415411 | KLHDC10,TMEM209,ZC3HC1 |
| 4 | 94,725,000 | 94,875,000 | 1264 | 226 | -0.800678068 | CPA4,KLHDC10,MGC127766,TMEM209 |
| 4 | 94,800,000 | 94,950,000 | 1265 | 155 | -1.460949208 | CPA1,CPA4,CPA5,MGC127766 |
| 4 | 94,875,000 | 95,025,000 | 1266 | 166 | -1.44178961 | CEP41,CPA1,CPA4,CPA5 |
| 4 | 94,950,000 | 95,100,000 | 1267 | 178 | -0.73720182 | CEP41,COPG2,MEST |
| 4 | 95,025,000 | 95,175,000 | 1268 | 224 | 0.521469302 | COPG2,MEST |
| 4 | 95,100,000 | 95,250,000 | 1269 | 295 | 1.047884478 | COPG2,TSGA13 |
| 4 | 95,175,000 | 95,325,000 | 1270 | 341 | 1.030861515 | COPG2,TSGA13 |
| 4 | 95,250,000 | 95,400,000 | 1271 | 507 | 0.569166498 | |
| 4 | 95,325,000 | 95,475,000 | 1272 | 527 | 0.687356137 | |
| 4 | 95,400,000 | 95,550,000 | 1273 | 639 | 1.094628357 | |
| 4 | 95,475,000 | 95,625,000 | 1274 | 832 | 1.091154882 | |
| 4 | 95,550,000 | 95,700,000 | 1275 | 839 | 0.955460888 | |
| 4 | 95,625,000 | 95,775,000 | 1276 | 627 | 0.970254116 | |
| 4 | 95,700,000 | 95,850,000 | 1277 | 621 | 0.57253665 | MKLN1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 4 | 95,775,000 | 95,925,000 | 1278 | 740 | 0.692922199 | MKLN1 |
| 4 | 95,850,000 | 96,000,000 | 1279 | 617 | 1.119705824 | MKLN1 |
| 4 | 95,925,000 | 96,075,000 | 1280 | 1082 | 0.351616723 | MKLN1,PODXL |
| 4 | 96,000,000 | 96,150,000 | 1281 | 1584 | 0.296901543 | MKLN1,PODXL |
| 4 | 96,075,000 | 96,225,000 | 1282 | 1407 | 0.489523863 | |
| 4 | 96,150,000 | 96,300,000 | 1283 | 1254 | 0.753014585 | |
| 4 | 96,225,000 | 96,375,000 | 1284 | 906 | 0.57475584 | |
| 4 | 96,300,000 | 96,450,000 | 1285 | 403 | -0.147692078 | |
| 4 | 96,375,000 | 96,525,000 | 1286 | 701 | 0.558233248 | |
| 4 | 96,450,000 | 96,600,000 | 1287 | 1070 | 0.35437484 | PLEX2 |
| 4 | 96,525,000 | 96,675,000 | 1288 | 1008 | 0.613335424 | PLEX2 |
| 4 | 96,600,000 | 96,750,000 | 1289 | 962 | 0.915786266 | PLEX2 |
| 4 | 96,675,000 | 96,825,000 | 1290 | 1356 | -1.63271081 | PLEX2 |
| 4 | 96,750,000 | 96,900,000 | 1291 | 1133 | -2.94254556 | PLEX2,ENSBTAG00000038448 |
| 4 | 96,825,000 | 96,975,000 | 1292 | 479 | 0.100414897 | PLEX2,ENSBTAG00000038448 |
| 4 | 96,900,000 | 97,050,000 | 1293 | 548 | 0.3297782 | PLEX2 |
| 4 | 96,975,000 | 97,125,000 | 1294 | 937 | 0.276977795 | PLEX2 |
| 4 | 97,050,000 | 97,200,000 | 1295 | 1233 | 0.88013705 | |
| 4 | 97,125,000 | 97,275,000 | 1296 | 1302 | 0.251922234 | |
| 4 | 97,200,000 | 97,350,000 | 1297 | 1067 | -0.425391521 | CHCHD3 |
| 4 | 97,275,000 | 97,425,000 | 1298 | 734 | -0.317341661 | CHCHD3 |
| 4 | 97,350,000 | 97,500,000 | 1299 | 515 | -0.585744886 | CHCHD3 |
| 4 | 97,425,000 | 97,575,000 | 1300 | 355 | -0.393129236 | CHCHD3 |
| 4 | 97,500,000 | 97,650,000 | 1301 | 256 | 0.028994849 | CHCHD3 |
| 4 | 97,575,000 | 97,725,000 | 1302 | 679 | -0.051581259 | CHCHD3 |
| 4 | 97,650,000 | 97,800,000 | 1303 | 1199 | 0.447875286 | EXOC4 |
| 4 | 97,725,000 | 97,875,000 | 1304 | 1370 | 1.104321796 | EXOC4 |
| 4 | 97,800,000 | 97,950,000 | 1305 | 1021 | 1.01051434 | EXOC4 |
| 4 | 97,875,000 | 98,025,000 | 1306 | 519 | 1.019124964 | EXOC4 |
| 4 | 97,950,000 | 98,100,000 | 1307 | 492 | 0.471710505 | EXOC4 |
| 4 | 98,025,000 | 98,175,000 | 1308 | 393 | -0.699079041 | EXOC4 |
| 4 | 98,100,000 | 98,250,000 | 1309 | 691 | 0.497545422 | EXOC4 |
| 4 | 98,175,000 | 98,325,000 | 1310 | 940 | 0.940810265 | EXOC4 |
| 4 | 98,250,000 | 98,400,000 | 1311 | 745 | 0.535123802 | EXOC4 |
| 4 | 98,325,000 | 98,475,000 | 1312 | 762 | 0.053601573 | EXOC4 |
| 4 | 98,400,000 | 98,550,000 | 1313 | 988 | 0.369649316 | EXOC4 |
| 4 | 98,475,000 | 98,625,000 | 1314 | 1000 | 0.497882459 | EXOC4 |
| 4 | 98,550,000 | 98,700,000 | 1315 | 871 | 0.858507956 | EXOC4,LRGUK |
| 4 | 98,625,000 | 98,775,000 | 1316 | 472 | 1.163430859 | LRGUK |
| 4 | 98,700,000 | 98,850,000 | 1317 | 446 | 1.222073122 | LRGUK,SLC35B4 |
| 4 | 98,775,000 | 98,925,000 | 1318 | 919 | 0.784415394 | LRGUK,SLC35B4 |
| 4 | 98,850,000 | 99,000,000 | 1319 | 1040 | 0.753210463 | SLC35B4 |
| 4 | 98,925,000 | 99,075,000 | 1320 | 722 | 0.657618837 | AKR1B1 |
| 4 | 99,000,000 | 99,150,000 | 1321 | 664 | 0.588562395 | AKR1B1,ENSBTAG00000001582 |
| 4 | 99,075,000 | 99,225,000 | 1322 | 657 | 0.755135394 | BPGM,ENSBTAG00000001582 |
| 4 | 99,150,000 | 99,300,000 | 1323 | 387 | 0.469396285 | BPGM |
| 4 | 99,225,000 | 99,375,000 | 1324 | 483 | 0.573570852 | BPGM |
| 4 | 99,300,000 | 99,450,000 | 1325 | 633 | 0.459485685 | |
| 4 | 99,375,000 | 99,525,000 | 1326 | 615 | 0.059685473 | CALD1 |
| 4 | 99,450,000 | 99,600,000 | 1327 | 506 | -0.420700975 | AGBL3,CALD1 |
| 4 | 99,525,000 | 99,675,000 | 1328 | 345 | -0.169852599 | AGBL3,CALD1 |
| 4 | 99,600,000 | 99,750,000 | 1329 | 503 | 0.453654588 | AGBL3,C7orf49,TMEM140,WDR91 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 99,675,000 | 99,825,000 | 1330 | 780 | 0.086448532 | AGBL3,C7orf49,STRA8,TMEM140,WDR91,ENSBTAG00000031548 |
| 4 | 99,750,000 | 99,900,000 | 1331 | 899 | 0.023605907 | STRA8,WDR91,ENSBTAG00000031548,ENSBTAG00000047605 |
| 4 | 99,825,000 | 99,975,000 | 1332 | 1338 | 0.563252367 | ENSBTAG00000031548,ENSBTAG00000047605 |
| 4 | 99,900,000 | 100,050,000 | 1333 | 1072 | 0.672956215 | CNOT4,ENSBTAG00000031548,ENSBTAG00000047605 |
| 4 | 99,975,000 | 100,125,000 | 1334 | 464 | 0.440963198 | CNOT4 |
| 4 | 100,050,000 | 100,200,000 | 1335 | 470 | 0.460931745 | CNOT4,NUP205 |
| 4 | 100,125,000 | 100,275,000 | 1336 | 407 | -0.122449275 | CNOT4,NUP205,PL-5283 |
| 4 | 100,200,000 | 100,350,000 | 1337 | 366 | -0.654075885 | FAM180A,NUP205,PL-5283,SLC13A4 |
| 4 | 100,275,000 | 100,425,000 | 1338 | 465 | -0.788136463 | FAM180A,PL-5283,SLC13A4 |
| 4 | 100,350,000 | 100,500,000 | 1339 | 546 | -1.030638553 | |
| 4 | 100,425,000 | 100,575,000 | 1340 | 664 | -0.891817812 | MTPN |
| 4 | 100,500,000 | 100,650,000 | 1341 | 855 | -0.73639662 | MTPN |
| 4 | 100,575,000 | 100,725,000 | 1342 | 1009 | 0.410398806 | MTPN |
| 4 | 100,650,000 | 100,800,000 | 1343 | 882 | 1.160047711 | |
| 4 | 100,725,000 | 100,875,000 | 1344 | 896 | 0.180173003 | |
| 4 | 100,800,000 | 100,950,000 | 1345 | 1007 | 0.138835893 | |
| 4 | 100,875,000 | 101,025,000 | 1346 | 884 | 0.863614411 | |
| 4 | 100,950,000 | 101,100,000 | 1347 | 980 | 1.269561243 | |
| 4 | 101,025,000 | 101,175,000 | 1348 | 895 | 1.014437376 | |
| 4 | 101,100,000 | 101,250,000 | 1349 | 735 | 0.151476427 | |
| 4 | 101,175,000 | 101,325,000 | 1350 | 816 | -0.371809705 | |
| 4 | 101,250,000 | 101,400,000 | 1351 | 699 | -0.31414733 | |
| 4 | 101,325,000 | 101,475,000 | 1352 | 899 | 0.784221709 | |
| 4 | 101,400,000 | 101,550,000 | 1353 | 855 | 0.700587514 | |
| 4 | 101,475,000 | 101,625,000 | 1354 | 705 | -7.78E-05 | CHRM2 |
| 4 | 101,550,000 | 101,700,000 | 1355 | 746 | -0.635800363 | CHRM2,PTN |
| 4 | 101,625,000 | 101,775,000 | 1356 | 533 | -0.36195482 | PTN |
| 4 | 101,700,000 | 101,850,000 | 1357 | 613 | -0.774593578 | PTN |
| 4 | 101,775,000 | 101,925,000 | 1358 | 811 | -0.576142296 | DGKI,PTN |
| 4 | 101,850,000 | 102,000,000 | 1359 | 1027 | 0.585872068 | DGKI |
| 4 | 101,925,000 | 102,075,000 | 1360 | 1001 | 0.120212064 | DGKI |
| 4 | 102,000,000 | 102,150,000 | 1361 | 761 | -1.336918241 | DGKI |
| 4 | 102,075,000 | 102,225,000 | 1362 | 760 | -1.353031337 | DGKI |
| 4 | 102,150,000 | 102,300,000 | 1363 | 710 | -0.841295638 | DGKI |
| 4 | 102,225,000 | 102,375,000 | 1364 | 408 | -0.533820395 | |
| 4 | 102,300,000 | 102,450,000 | 1365 | 487 | 0.389396336 | CREB3L2 |
| 4 | 102,375,000 | 102,525,000 | 1366 | 770 | 0.853231458 | CREB3L2 |
| 4 | 102,450,000 | 102,600,000 | 1367 | 745 | 0.886233848 | AKR1D1,CREB3L2 |
| 4 | 102,525,000 | 102,675,000 | 1368 | 706 | 0.858709985 | AKR1D1,CREB3L2 |
| 4 | 102,600,000 | 102,750,000 | 1369 | 543 | 0.518156895 | AKR1D1 |
| 4 | 102,675,000 | 102,825,000 | 1370 | 440 | 0.122029392 | |
| 4 | 102,750,000 | 102,900,000 | 1371 | 469 | 0.313933133 | |
| 4 | 102,825,000 | 102,975,000 | 1372 | 373 | 0.663975639 | |
| 4 | 102,900,000 | 103,050,000 | 1373 | 441 | 1.082886604 | TRIM24 |
| 4 | 102,975,000 | 103,125,000 | 1374 | 651 | 0.603480085 | SVOPL,TRIM24 |
| 4 | 103,050,000 | 103,200,000 | 1375 | 796 | -0.042858097 | ATP6V0A4,SVOPL,TRIM24 |
| 4 | 103,125,000 | 103,275,000 | 1376 | 588 | -0.293202528 | ATP6V0A4,SVOPL,TMEM213 |
| 4 | 103,200,000 | 103,350,000 | 1377 | 481 | 0.79765621 | ATP6V0A4,KIAA1549,TMEM213 |
| 4 | 103,275,000 | 103,425,000 | 1378 | 926 | 1.274373322 | KIAA1549,TMEM213 |
| 4 | 103,350,000 | 103,500,000 | 1379 | 950 | 1.168411564 | KIAA1549,ZC3HAV1,ZC3HAV1L |
| 4 | 103,425,000 | 103,575,000 | 1380 | 565 | 0.808693609 | TTC26,ZC3HAV1,ZC3HAV1L |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 4 | 103,500,000 | 103,650,000 | 1381 | 434 | 0.432197759 | TTC26,UBN2,ZC3HAV1 |
| 4 | 103,575,000 | 103,725,000 | 1382 | 384 | -0.446725922 | TTC26,UBN2,ENSBTAG00000017770 |
| 4 | 103,650,000 | 103,800,000 | 1383 | 607 | -0.990673951 | KLRG2,UBN2,ENSBTAG00000017770 |
| 4 | 103,725,000 | 103,875,000 | 1384 | 1035 | -0.226422987 | CLEC2L,KLRG2,ENSBTAG00000017770 |
| 4 | 103,800,000 | 103,950,000 | 1385 | 1322 | 0.70510676 | CLEC2L,HIPK2,KLRG2 |
| 4 | 103,875,000 | 104,025,000 | 1386 | 1268 | 1.255812876 | HIPK2 |
| 4 | 103,950,000 | 104,100,000 | 1387 | 1034 | 1.190662866 | HIPK2 |
| 4 | 104,025,000 | 104,175,000 | 1388 | 1178 | 1.134007877 | TBXAS1 |
| 4 | 104,100,000 | 104,250,000 | 1389 | 1375 | 0.621733605 | TBXAS1 |
| 4 | 104,175,000 | 104,325,000 | 1390 | 1284 | 0.479564579 | PARP12,TBXAS1 |
| 4 | 104,250,000 | 104,400,000 | 1391 | 859 | 0.742922253 | KDM7A,PARP12,TBXAS1 |
| 4 | 104,325,000 | 104,475,000 | 1392 | 772 | 0.611025874 | KDM7A,PARP12 |
| 4 | 104,400,000 | 104,550,000 | 1393 | 1026 | -0.264035467 | KDM7A |
| 4 | 104,475,000 | 104,625,000 | 1394 | 909 | -1.339516337 | SLC37A3 |
| 4 | 104,550,000 | 104,700,000 | 1395 | 948 | -0.262311777 | MKRN1,RAB19,SLC37A3 |
| 4 | 104,625,000 | 104,775,000 | 1396 | 1038 | 0.754010453 | DENND2A,MKRN1,RAB19 |
| 4 | 104,700,000 | 104,850,000 | 1397 | 798 | 0.965749636 | ADCK2,DENND2A |
| 4 | 104,775,000 | 104,925,000 | 1398 | 509 | 1.202929859 | ADCK2,BRAF,DENND2A,NDUFB2 |
| 4 | 104,850,000 | 105,000,000 | 1399 | 377 | 1.114884841 | BRAF,NDUFB2 |
| 4 | 104,925,000 | 105,075,000 | 1400 | 511 | 1.112387906 | BRAF,ENSBTAG00000046211 |
| 4 | 105,000,000 | 105,150,000 | 1401 | 866 | 1.059349569 | BRAF,MRPS33,ENSBTAG00000046211 |
| 4 | 105,075,000 | 105,225,000 | 1402 | 991 | 0.461678459 | MRPS33 |
| 4 | 105,150,000 | 105,300,000 | 1403 | 1043 | 0.296478741 | |
| 4 | 105,225,000 | 105,375,000 | 1404 | 1238 | 0.340651956 | |
| 4 | 105,300,000 | 105,450,000 | 1405 | 1242 | 0.413852817 | |
| 4 | 105,375,000 | 105,525,000 | 1406 | 1272 | 0.395100609 | |
| 4 | 105,450,000 | 105,600,000 | 1407 | 1352 | -0.299826494 | ENSBTAG00000046341 |
| 4 | 105,525,000 | 105,675,000 | 1408 | 934 | -0.504115997 | AGK,ENSBTAG00000046341 |
| 4 | 105,600,000 | 105,750,000 | 1409 | 442 | 0.861470587 | AGK |
| 4 | 105,675,000 | 105,825,000 | 1410 | 683 | 0.554307624 | AGK,KIAA1147,WEE2 |
| 4 | 105,750,000 | 105,900,000 | 1411 | 749 | 0.142117514 | KIAA1147,SSBP1,TAS2R3,TAS2R4,WEE2 |
| 4 | 105,825,000 | 105,975,000 | 1412 | 710 | -0.429821543 | PRSS37,SSBP1,TAS2R3,TAS2R4,WEE2,ENSBTAG00000027341 |
| 4 | 105,900,000 | 106,050,000 | 1413 | 1322 | 0.6088595 | OR9A4,PRSS37,ENSBTAG00000027341 |
| 4 | 105,975,000 | 106,125,000 | 1414 | 1666 | 1.043506201 | CLEC5A,MGAM,OR9A4,TAS2R38,ENSBTAG00000003664 |
| 4 | 106,050,000 | 106,200,000 | 1415 | 1980 | 0.221577702 | CLEC5A,MGAM,TAS2R38,ENSBTAG00000003664 |
| 4 | 106,125,000 | 106,275,000 | 1416 | 1937 | 0.351990097 | MGAM,ENSBTAG00000046616 |
| 4 | 106,200,000 | 106,350,000 | 1417 | 1133 | 0.828580514 | MGAM,PRSS58,ENSBTAG00000003621,ENSBTAG000000031236,ENSBTAG00000046616,ENSBTAG00000048012 |
| 4 | 106,275,000 | 106,425,000 | 1418 | 967 | 0.28988046 | PRSS58,ENSBTAG00000003621,ENSBTAG00000003633,ENSBTAG000000024245,ENSBTAG000000031236,ENSBTAG00000046616,ENSBTAG00000048012 |
| 4 | 106,350,000 | 106,500,000 | 1419 | 1873 | 0.315081804 | TRB@,ENSBTAG00000003633,ENSBTAG00000024245,ENSBTAG000000031232,ENSBTAG000000031236,ENSBTAG000000038385,ENSBTAG000000039956,ENSBTAG00000040281,ENSBTAG00000045978,ENSBTAG00000046164,ENSBTAG00000046660,ENSBTAG00000046793,ENSBTAG00000047072,ENSBTAG00000047562,ENSBTAG00000047657,ENSBTAG00000047722,ENSBTAG00000047725,ENSBTAG00000048016 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 106,425,000 | 106,575,000 | 1420 | 2147 | 0.007408217 | TRB@,ENSBTAG00000031232,ENSBTAG00000031234,ENSBTAG00000038127,ENSBTAG00000038307,ENSBTAG00000038385,ENSBTAG00000038690,ENSBTAG00000038934,ENSBTAG00000038943,ENSBTAG00000038960,ENSBTAG00000039093,ENSBTAG00000039956,ENSBTAG00000040261,ENSBTAG00000040281,ENSBTAG00000040387,ENSBTAG00000040388,ENSBTAG00000045978,ENSBTAG00000046164,ENSBTAG00000046496,ENSBTAG00000046660,ENSBTAG00000046793,ENSBTAG00000047072,ENSBTAG00000047193,ENSBTAG00000047562,ENSBTAG00000047657,ENSBTAG00000047722,ENSBTAG00000047725,ENSBTAG00000047844,ENSBTAG00000047922,ENSBTAG00000048016,ENSBTAG00000048189 |
| 4 | 106,500,000 | 106,650,000 | 1421 | 1777 | -0.523950934 | TRB@,TRBV16,ENSBTAG00000031234,ENSBTAG00000038127,ENSBTAG00000038307,ENSBTAG00000038605,ENSBTAG00000038690,ENSBTAG00000038934,ENSBTAG00000038943,ENSBTAG00000038960,ENSBTAG00000039093,ENSBTAG00000039559,ENSBTAG00000039674,ENSBTAG00000040261,ENSBTAG00000040387,ENSBTAG00000040388,ENSBTAG00000046496,ENSBTAG00000047193,ENSBTAG00000047657,ENSBTAG00000047844,ENSBTAG00000047922,ENSBTAG00000048189 |
| 4 | 106,575,000 | 106,725,000 | 1422 | 1353 | -0.201845896 | TRB@,TRBV16,ENSBTAG00000031216,ENSBTAG00000038605,ENSBTAG00000039559,ENSBTAG00000039674 |
| 4 | 106,650,000 | 106,800,000 | 1423 | 1057 | 0.071368664 | ENSBTAG00000031216 |
| 4 | 106,725,000 | 106,875,000 | 1424 | 1502 | -0.283032766 | TRBV29-1,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,800,000 | 106,950,000 | 1425 | 1554 | -0.234145285 | PRSS2,TRBV29-1,TRBV30,ENSBTAG00000002259,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,875,000 | 107,025,000 | 1426 | 1181 | -0.19966791 | EPHB6,PRSS2,TRBV29-1,TRBV30,TRPV6,ENSBTAG00000002259,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,950,000 | 107,100,000 | 1427 | 826 | -0.920935749 | C7orf34,EPHB6,KEL,TRPV5,TRPV6 |
| 4 | 107,025,000 | 107,175,000 | 1428 | 634 | -1.821868812 | C7orf34,KEL,TRPV5 |
| 4 | 107,100,000 | 107,250,000 | 1429 | 1126 | -0.147495497 | ENSBTAG00000024230,ENSBTAG00000024231,ENSBTAG00000037918 |
| 4 | 107,175,000 | 107,325,000 | 1430 | 1367 | 0.206751034 | PIP,ENSBTAG00000024230,ENSBTAG00000024231,ENSBTAG00000037918,ENSBTAG00000045677 |
| 4 | 107,250,000 | 107,400,000 | 1431 | 974 | -0.270432981 | PIP,ENSBTAG00000031212,ENSBTAG00000045677 |
| 4 | 107,325,000 | 107,475,000 | 1432 | 885 | 0.350576874 | GSTK1,TAS2R40,ENSBTAG00000031212 |
| 4 | 107,400,000 | 107,550,000 | 1433 | 909 | 0.867534575 | CASP2,CLCN1,GSTK1,TAS2R40,TMEM139 |
| 4 | 107,475,000 | 107,625,000 | 1434 | 561 | 0.821305529 | CASP2,CLCN1,EPHA1,FAM131B,TMEM139,ZYX |
| 4 | 107,550,000 | 107,700,000 | 1435 | 621 | 0.035286898 | CLCN1,EPHA1,FAM131B,ZYX,ENSBTAG00000038649 |
| 4 | 107,625,000 | 107,775,000 | 1436 | 1172 | -0.353545306 | ENSBTAG00000013248,ENSBTAG00000038649,ENSBTAG00000039614 |
| 4 | 107,700,000 | 107,850,000 | 1437 | 1060 | -0.224200224 | FAM115A,FAM115C,ENSBTAG00000013248,ENSBTAG00000039614 |
| 4 | 107,775,000 | 107,925,000 | 1438 | 831 | 0.815686845 | FAM115A,FAM115C,ENSBTAG00000045576 |
| 4 | 107,850,000 | 108,000,000 | 1439 | 975 | 0.656559869 | FAM115A,ENSBTAG00000011191,ENSBTAG00000045576,ENSBTAG00000046020,ENSBTAG00000047188,ENSBTAG00000048115 |
| 4 | 107,925,000 | 108,075,000 | 1440 | 1146 | 0.189497519 | OR2A5,OR6B1,ENSBTAG00000011191,ENSBTAG00000046020,ENSBTAG00000047188,ENSBTAG00000048115 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 4 | 108,000,000 | 108,150,000 | 1441 | 1045 | 0.297061128 | OR2A12,OR2A2,OR2A5,OR6B1,ENSBTAG00000013673,ENSBTAG000000037927 |
| 4 | 108,075,000 | 108,225,000 | 1442 | 914 | 0.870102978 | OR2A12,OR2A2,ENSBTAG00000013673,ENSBTAG000000037927 |
| 4 | 108,150,000 | 108,300,000 | 1443 | 838 | 0.801834536 | |
| 4 | 108,225,000 | 108,375,000 | 1444 | 796 | 0.808861623 | |
| 4 | 108,300,000 | 108,450,000 | 1445 | 789 | 0.906407131 | ARHGEF5,ENSBTAG00000020364 |
| 4 | 108,375,000 | 108,525,000 | 1446 | 1055 | 0.67620406 | ARHGEF5,NOBOX,ENSBTAG00000020364 |
| 4 | 108,450,000 | 108,600,000 | 1447 | 1213 | 0.890461029 | ARHGEF5,NOBOX,TPK1 |
| 4 | 108,525,000 | 108,675,000 | 1448 | 782 | 0.621752991 | TPK1 |
| 4 | 108,600,000 | 108,750,000 | 1449 | 752 | -0.949958769 | TPK1 |
| 4 | 108,675,000 | 108,825,000 | 1450 | 776 | -0.63927057 | TPK1 |
| 4 | 108,750,000 | 108,900,000 | 1451 | 1006 | -0.038113214 | TPK1 |
| 4 | 108,825,000 | 108,975,000 | 1452 | 1214 | -0.395594323 | TPK1 |
| 4 | 108,900,000 | 109,050,000 | 1453 | 1133 | -0.244867485 | TPK1 |
| 4 | 108,975,000 | 109,125,000 | 1454 | 1092 | 0.487329287 | |
| 4 | 109,050,000 | 109,200,000 | 1455 | 1042 | -0.059626923 | |
| 4 | 109,125,000 | 109,275,000 | 1456 | 1160 | -0.118154187 | |
| 4 | 109,200,000 | 109,350,000 | 1457 | 1323 | 0.694069523 | |
| 4 | 109,275,000 | 109,425,000 | 1458 | 1207 | 0.144455296 | |
| 4 | 109,350,000 | 109,500,000 | 1459 | 1437 | -0.22164879 | |
| 4 | 109,425,000 | 109,575,000 | 1460 | 1610 | 0.486085722 | |
| 4 | 109,500,000 | 109,650,000 | 1461 | 1088 | 1.098672069 | |
| 4 | 109,575,000 | 109,725,000 | 1462 | 1388 | 0.005372214 | |
| 4 | 109,650,000 | 109,800,000 | 1463 | 1728 | -0.432989298 | |
| 4 | 109,725,000 | 109,875,000 | 1464 | 1562 | -0.443146675 | |
| 4 | 109,800,000 | 109,950,000 | 1465 | 1509 | -0.49805324 | |
| 4 | 109,875,000 | 110,025,000 | 1466 | 915 | -0.740559182 | |
| 4 | 109,950,000 | 110,100,000 | 1467 | 619 | 0.078116056 | |
| 4 | 110,025,000 | 110,175,000 | 1468 | 898 | 0.949258008 | |
| 4 | 110,100,000 | 110,250,000 | 1469 | 1027 | 0.473448368 | |
| 4 | 110,175,000 | 110,325,000 | 1470 | 1019 | 0.050891517 | |
| 4 | 110,250,000 | 110,400,000 | 1471 | 1071 | -0.550279452 | |
| 4 | 110,325,000 | 110,475,000 | 1472 | 1262 | -0.14063675 | |
| 4 | 110,400,000 | 110,550,000 | 1473 | 1117 | 0.953341752 | |
| 4 | 110,475,000 | 110,625,000 | 1474 | 975 | 1.198988492 | |
| 4 | 110,550,000 | 110,700,000 | 1475 | 1223 | 0.200025125 | |
| 4 | 110,625,000 | 110,775,000 | 1476 | 1383 | 0.104111934 | |
| 4 | 110,700,000 | 110,850,000 | 1477 | 1265 | 0.421438212 | |
| 4 | 110,775,000 | 110,925,000 | 1478 | 1259 | 0.594357142 | |
| 4 | 110,850,000 | 111,000,000 | 1479 | 1472 | 1.141799113 | ENSBTAG00000048097 |
| 4 | 110,925,000 | 111,075,000 | 1480 | 1555 | 1.004602288 | ENSBTAG00000048097 |
| 4 | 111,000,000 | 111,150,000 | 1481 | 1524 | 0.414145253 | |
| 4 | 111,075,000 | 111,225,000 | 1482 | 1209 | 0.44001259 | ENSBTAG00000000719 |
| 4 | 111,150,000 | 111,300,000 | 1483 | 777 | 1.109801907 | ENSBTAG00000000719 |
| 4 | 111,225,000 | 111,375,000 | 1484 | 1155 | 1.288262023 | ENSBTAG00000000719 |
| 4 | 111,300,000 | 111,450,000 | 1485 | 1495 | 1.334174899 | |
| 4 | 111,375,000 | 111,525,000 | 1486 | 1008 | 1.17996971 | |
| 4 | 111,450,000 | 111,600,000 | 1487 | 815 | 0.755763954 | ENSBTAG00000047459 |
| 4 | 111,525,000 | 111,675,000 | 1488 | 935 | 0.552313795 | ENSBTAG00000047459 |
| 4 | 111,600,000 | 111,750,000 | 1489 | 804 | 0.268587599 | |
| 4 | 111,675,000 | 111,825,000 | 1490 | 887 | -0.086580479 | |
| 4 | 111,750,000 | 111,900,000 | 1491 | 744 | -0.254918212 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 4 | 111,825,000 | 111,975,000 | 1492 | 816 | 0.374082162 | |
| 4 | 111,900,000 | 112,050,000 | 1493 | 1011 | 0.422851207 | ENSBTAG00000047873 |
| 4 | 111,975,000 | 112,125,000 | 1494 | 873 | 0.319310448 | ENSBTAG00000047873 |
| 4 | 112,050,000 | 112,200,000 | 1495 | 1054 | 0.301690047 | ENSBTAG00000045871 |
| 4 | 112,125,000 | 112,275,000 | 1496 | 1188 | -0.330333878 | ENSBTAG00000027832,ENSBTAG00000045871 |
| 4 | 112,200,000 | 112,350,000 | 1497 | 1179 | -0.768760709 | ENSBTAG00000027832 |
| 4 | 112,275,000 | 112,425,000 | 1498 | 1039 | -0.844819025 | ENSBTAG00000027832 |
| 4 | 112,350,000 | 112,500,000 | 1499 | 1117 | -0.365740395 | ENSBTAG00000027832 |
| 4 | 112,425,000 | 112,575,000 | 1500 | 1210 | 0.182529653 | ENSBTAG00000027832 |
| 4 | 112,500,000 | 112,650,000 | 1501 | 1403 | 0.291507489 | ENSBTAG00000027832 |
| 4 | 112,575,000 | 112,725,000 | 1502 | 1202 | 0.09879728 | |
| 4 | 112,650,000 | 112,800,000 | 1503 | 630 | -0.247503519 | CUL1 |
| 4 | 112,725,000 | 112,875,000 | 1504 | 368 | -0.15284263 | CUL1,EZH2 |
| 4 | 112,800,000 | 112,950,000 | 1505 | 386 | -0.796104009 | CUL1,EZH2 |
| 4 | 112,875,000 | 113,025,000 | 1506 | 718 | -0.669733809 | ERP70,ZNF786 |
| 4 | 112,950,000 | 113,100,000 | 1507 | 968 | -0.215514095 | ERP70,ZNF282,ZNF398,ZNF786 |
| 4 | 113,025,000 | 113,175,000 | 1508 | 781 | 0.231343515 | ZNF212,ZNF282,ZNF398,ZNF783,ZNF786 |
| 4 | 113,100,000 | 113,250,000 | 1509 | 749 | 1.255178607 | ZNF212,ZNF282,ZNF777,ZNF783 |
| 4 | 113,175,000 | 113,325,000 | 1510 | 876 | 1.30242766 | ZNF746,ZNF777 |
| 4 | 113,250,000 | 113,400,000 | 1511 | 832 | 0.686491748 | KRBA1,ZNF746,ZNF777 |
| 4 | 113,325,000 | 113,475,000 | 1512 | 839 | 0.60771901 | KRBA1,SSPO,ZNF467 |
| 4 | 113,400,000 | 113,550,000 | 1513 | 894 | 1.284078207 | ATP6V0E2,SSPO,ZNF467,ZNF862 |
| 4 | 113,475,000 | 113,625,000 | 1514 | 1096 | 1.233613299 | ATP6V0E2,LRRC61,RARRES2,REPIN1,SSPO,ZNF862 |
| 4 | 113,550,000 | 113,700,000 | 1515 | 1730 | 0.572917324 | GIMAP8,LRRC61,RARRES2,REPIN1,ZNF775 |
| 4 | 113,625,000 | 113,775,000 | 1516 | 2133 | 0.373060845 | GIMAP7,GIMAP8,ZNF775,ENSBTAG00000039588 |
| 4 | 113,700,000 | 113,850,000 | 1517 | 1679 | 0.41039312 | GIMAP7,ENSBTAG00000039588 |
| 4 | 113,775,000 | 113,925,000 | 1518 | 1370 | 0.547352685 | GIMAP4,GIMAP7 |
| 4 | 113,850,000 | 114,000,000 | 1519 | 1452 | -0.191835387 | GIMAP1,GIMAP4,GIMAP7 |
| 4 | 113,925,000 | 114,075,000 | 1520 | 1374 | -0.231455037 | GIMAP1,GIMAP7,ENSBTAG00000039928 |
| 4 | 114,000,000 | 114,150,000 | 1521 | 1554 | -0.065273591 | ENSBTAG0000000715,ENSBTAG0000004894,ENSBTAG0000008550,ENSBTAG00000037510,ENSBTAG00000039928 |
| 4 | 114,075,000 | 114,225,000 | 1522 | 1612 | -0.176387973 | TMEM176A, TMEM176B,ENSBTAG0000000715,ENSBTAG0000004894,ENSBTAG0000008550,ENSBTAG00000037510 |
| 4 | 114,150,000 | 114,300,000 | 1523 | 1320 | 0.361587365 | ABP1, TMEM176A, TMEM176B,ENSBTAG0000000715 |
| 4 | 114,225,000 | 114,375,000 | 1524 | 1217 | 0.635925302 | ABP1,KCNH2 |
| 4 | 114,300,000 | 114,450,000 | 1525 | 1073 | 0.366331152 | ABCB8,ACCN3,ATG9B,CDK5,KCNH2,NOS3,SLC4A2 |
| 4 | 114,375,000 | 114,525,000 | 1526 | 910 | -0.330888192 | ABCB8,ACCN3,AGAP3,ATG9B,CDK5,FASTK,GBX1,NOS3,SLC4A2,TMUB1 |
| 4 | 114,450,000 | 114,600,000 | 1527 | 933 | -0.16217319 | ABCF2,AGAP3,ASB10,FASTK,GBX1,IQCA1P1,SLC4A2,TMUB1,ENSBTAG00000024204 |
| 4 | 114,525,000 | 114,675,000 | 1528 | 1250 | 0.444774132 | ABCF2,ASB10,CHPF2,GBX1,IQCA1P1,SMARCD3,ENSBTAG00000024204 |
| 4 | 114,600,000 | 114,750,000 | 1529 | 1224 | 0.4825956 | ABCF2,CHPF2,NUB1,SMARCD3,WDR86 |
| 4 | 114,675,000 | 114,825,000 | 1530 | 1204 | 0.218249171 | CRYGN,NUB1,RHEB,SMARCD3,WDR86 |
| 4 | 114,750,000 | 114,900,000 | 1531 | 927 | 0.584279501 | CRYGN,PRKAG2,RHEB,WDR86 |
| 4 | 114,825,000 | 114,975,000 | 1532 | 455 | 0.464490421 | PRKAG2,RHEB,ENSBTAG00000046461 |
| 4 | 114,900,000 | 115,050,000 | 1533 | 744 | 0.515154017 | PRKAG2,ENSBTAG00000046461 |
| 4 | 114,975,000 | 115,125,000 | 1534 | 1022 | 0.72092642 | |
| 4 | 115,050,000 | 115,200,000 | 1535 | 1011 | 0.951267565 | |
| 4 | 115,125,000 | 115,275,000 | 1536 | 1196 | 0.735455123 | GALNTL5 |
| 4 | 115,200,000 | 115,350,000 | 1537 | 1034 | 0.02854366 | GALNT11,GALNTL5 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 4 | 115,275,000 | 115,425,000 | 1538 | 485 | -0.395332179 | GALNT11,GALNTL5,KMT2C |
| 4 | 115,350,000 | 115,500,000 | 1539 | 453 | 0.83792853 | GALNT11,KMT2C |
| 4 | 115,425,000 | 115,575,000 | 1540 | 717 | 0.654379732 | KMT2C |
| 4 | 115,500,000 | 115,650,000 | 1541 | 594 | -0.60963455 | CCT8L2,KMT2C |
| 4 | 115,575,000 | 115,725,000 | 1542 | 523 | -1.38751707 | CCT8L2 |
| 4 | 115,650,000 | 115,800,000 | 1543 | 732 | -0.898163645 | XRCC2 |
| 4 | 115,725,000 | 115,875,000 | 1544 | 863 | -0.897626088 | XRCC2 |
| 4 | 115,800,000 | 115,950,000 | 1545 | 748 | -0.441593463 | XRCC2,ENSBTAG00000008032 |
| 4 | 115,875,000 | 116,025,000 | 1546 | 930 | -0.079957708 | ENSBTAG00000008032 |
| 4 | 115,950,000 | 116,100,000 | 1547 | 1165 | -0.168340472 | ENSBTAG00000008032 |
| 4 | 116,025,000 | 116,175,000 | 1548 | 1163 | 0.602707545 | |
| 4 | 116,100,000 | 116,250,000 | 1549 | 1379 | 0.749769845 | PPDPF |
| 4 | 116,175,000 | 116,325,000 | 1550 | 1233 | 0.014076837 | PPDPF |
| 4 | 116,250,000 | 116,400,000 | 1551 | 1043 | -0.776136694 | |
| 4 | 116,325,000 | 116,475,000 | 1552 | 1327 | -1.315209685 | |
| 4 | 116,400,000 | 116,550,000 | 1553 | 1664 | -0.19324305 | |
| 4 | 116,475,000 | 116,625,000 | 1554 | 1563 | 1.087640109 | |
| 4 | 116,550,000 | 116,700,000 | 1555 | 1543 | 0.874639079 | |
| 4 | 116,625,000 | 116,775,000 | 1556 | 1633 | 0.836910678 | |
| 4 | 116,700,000 | 116,850,000 | 1557 | 1334 | 0.70538333 | |
| 4 | 116,775,000 | 116,925,000 | 1558 | 801 | 0.343120419 | |
| 4 | 116,850,000 | 117,000,000 | 1559 | 1150 | 0.587358059 | |
| 4 | 116,925,000 | 117,075,000 | 1560 | 1676 | 0.259135183 | |
| 4 | 117,000,000 | 117,150,000 | 1561 | 1354 | -0.986170849 | |
| 4 | 117,075,000 | 117,225,000 | 1562 | 1278 | -0.094048308 | ENSBTAG00000047979 |
| 4 | 117,150,000 | 117,300,000 | 1563 | 1749 | 0.84580227 | ENSBTAG00000047979 |
| 4 | 117,225,000 | 117,375,000 | 1564 | 1595 | 0.174444292 | ENSBTAG00000047979 |
| 4 | 117,300,000 | 117,450,000 | 1565 | 1048 | -0.775922306 | ENSBTAG00000047979 |
| 4 | 117,375,000 | 117,525,000 | 1566 | 955 | 0.006353432 | ENSBTAG00000047979 |
| 4 | 117,450,000 | 117,600,000 | 1567 | 1524 | 0.65614064 | DPP6 |
| 4 | 117,525,000 | 117,675,000 | 1568 | 1594 | 0.408902817 | DPP6 |
| 4 | 117,600,000 | 117,750,000 | 1569 | 1094 | -0.115288254 | DPP6,HTR5A |
| 4 | 117,675,000 | 117,825,000 | 1570 | 1199 | 0.425967064 | DPP6,HTR5A,PAXIP1 |
| 4 | 117,750,000 | 117,900,000 | 1571 | 988 | 0.569321284 | DPP6,PAXIP1 |
| 4 | 117,825,000 | 117,975,000 | 1572 | 798 | 0.701919764 | INSIG1,PAXIP1 |
| 4 | 117,900,000 | 118,050,000 | 1573 | 755 | 0.22458299 | CNPY1,EN2,INSIG1 |
| 4 | 117,975,000 | 118,125,000 | 1574 | 779 | -0.329624479 | CNPY1,EN2 |
| 4 | 118,050,000 | 118,200,000 | 1575 | 890 | 0.609975489 | RBM33 |
| 4 | 118,125,000 | 118,275,000 | 1576 | 741 | 0.44139568 | RBM33,SHH |
| 4 | 118,200,000 | 118,350,000 | 1577 | 720 | -0.128533223 | RBM33,SHH |
| 4 | 118,275,000 | 118,425,000 | 1578 | 1014 | -0.634133137 | |
| 4 | 118,350,000 | 118,500,000 | 1579 | 1187 | -0.677700538 | |
| 4 | 118,425,000 | 118,575,000 | 1580 | 1330 | -0.620924079 | |
| 4 | 118,500,000 | 118,650,000 | 1581 | 1009 | -0.404621272 | |
| 4 | 118,575,000 | 118,725,000 | 1582 | 524 | 0.551241988 | |
| 4 | 118,650,000 | 118,800,000 | 1583 | 438 | 0.455669817 | |
| 4 | 118,725,000 | 118,875,000 | 1584 | 424 | 0.674176403 | |
| 4 | 118,800,000 | 118,950,000 | 1585 | 647 | 0.171519794 | LMBR1,RNF32 |
| 4 | 118,875,000 | 119,025,000 | 1586 | 612 | -0.017676325 | LMBR1,RNF32 |
| 4 | 118,950,000 | 119,100,000 | 1587 | 507 | 0.574578802 | LMBR1 |
| 4 | 119,025,000 | 119,175,000 | 1588 | 489 | -0.362632864 | LMBR1,MNX1,NOM1 |
| 4 | 119,100,000 | 119,250,000 | 1589 | 405 | -1.120843156 | MNX1,NOM1,UBE3C |
| 4 | 119,175,000 | 119,325,000 | 1590 | 456 | -0.390113333 | UBE3C |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 4 | 119,250,000 | 119,400,000 | 1591 | 436 | 0.793147493 | UBE3C |
| 4 | 119,325,000 | 119,475,000 | 1592 | 406 | 0.922945187 | DNAJB6,UBE3C |
| 4 | 119,400,000 | 119,550,000 | 1593 | 434 | 0.225395315 | DNAJB6,PTPRN2 |
| 4 | 119,475,000 | 119,625,000 | 1594 | 528 | -0.682235848 | PTPRN2 |
| 4 | 119,550,000 | 119,700,000 | 1595 | 659 | -1.364125502 | PTPRN2 |
| 4 | 119,625,000 | 119,775,000 | 1596 | 713 | -2.703002257 | |
| 4 | 119,700,000 | 119,850,000 | 1597 | 568 | -1.853882466 | |
| 4 | 119,775,000 | 119,925,000 | 1598 | 425 | -0.438131199 | |
| 4 | 119,850,000 | 120,000,000 | 1599 | 624 | -0.116536725 | |
| 4 | 119,925,000 | 120,075,000 | 1600 | 657 | 0.197300884 | |
| 4 | 120,000,000 | 120,150,000 | 1601 | 417 | -0.206915796 | NCAPG2 |
| 4 | 120,075,000 | 120,225,000 | 1602 | 382 | -1.601812778 | NCAPG2 |
| 4 | 120,150,000 | 120,300,000 | 1603 | 459 | -1.55130256 | ESYT2,NCAPG2 |
| 4 | 120,225,000 | 120,375,000 | 1604 | 468 | -0.335474175 | ESYT2,WDR60 |
| 4 | 120,300,000 | 120,450,000 | 1605 | 465 | 0.007414427 | ESYT2,VIPR2,WDR60 |
| 4 | 120,375,000 | 120,525,000 | 1606 | 486 | 0.248205094 | VIPR2 |
| 4 | 120,450,000 | 120,600,000 | 1607 | 471 | 0.159584458 | VIPR2 |
| 4 | 120,525,000 | 120,675,000 | 1608 | 403 | -1.003220929 | |
| 4 | 120,600,000 | 120,750,000 | 1609 | 366 | -0.656830322 | |
| 4 | 120,675,000 | 120,825,000 | 1610 | 309 | -0.278615843 | |
| 4 | 120,750,000 | 120,829,699 | 1611 | 109 | -0.468970573 | |
| 5 | 0 | 150,000 | 1 | 454 | -0.098442952 | |
| 5 | 75,000 | 225,000 | 2 | 597 | -0.316384935 | |
| 5 | 150,000 | 300,000 | 3 | 789 | -1.290412985 | ENSBTAG00000027770,ENSBTAG00000037552 |
| 5 | 225,000 | 375,000 | 4 | 940 | -1.274544093 | ENSBTAG00000027770,ENSBTAG00000037552 |
| 5 | 300,000 | 450,000 | 5 | 636 | -0.940070007 | ENSBTAG00000027770,ENSBTAG00000038351 |
| 5 | 375,000 | 525,000 | 6 | 390 | -0.533523112 | ENSBTAG00000038351,ENSBTAG00000045542 |
| 5 | 450,000 | 600,000 | 7 | 456 | 0.092317717 | ENSBTAG00000045542 |
| 5 | 525,000 | 675,000 | 8 | 837 | 0.569548035 | |
| 5 | 600,000 | 750,000 | 9 | 827 | 0.552144678 | |
| 5 | 675,000 | 825,000 | 10 | 687 | 0.748434416 | TSPAN8 |
| 5 | 750,000 | 900,000 | 11 | 1007 | 0.291429066 | TSPAN8 |
| 5 | 825,000 | 975,000 | 12 | 1057 | -0.081378934 | TSPAN8 |
| 5 | 900,000 | 1,050,000 | 13 | 664 | 0.259558099 | |
| 5 | 975,000 | 1,125,000 | 14 | 411 | -0.159806868 | LGR5 |
| 5 | 1,050,000 | 1,200,000 | 15 | 536 | 0.566451416 | LGR5 |
| 5 | 1,125,000 | 1,275,000 | 16 | 548 | 1.034643278 | LGR5,ZFC3H1 |
| 5 | 1,200,000 | 1,350,000 | 17 | 893 | 0.745488868 | LGR5,THAP2,TMEM19,ZFC3H1 |
| 5 | 1,275,000 | 1,425,000 | 18 | 1036 | 0.482705809 | THAP2,TMEM19,ZFC3H1 |
| 5 | 1,350,000 | 1,500,000 | 19 | 929 | 0.330922792 | TBC1D15 |
| 5 | 1,425,000 | 1,575,000 | 20 | 859 | 0.596532107 | TBC1D15,TPH2 |
| 5 | 1,500,000 | 1,650,000 | 21 | 822 | 0.763772202 | TBC1D15,TPH2 |
| 5 | 1,575,000 | 1,725,000 | 22 | 1195 | 0.592732544 | TPH2 |
| 5 | 1,650,000 | 1,800,000 | 23 | 1081 | 0.483796703 | |
| 5 | 1,725,000 | 1,875,000 | 24 | 846 | 0.318531731 | |
| 5 | 1,800,000 | 1,950,000 | 25 | 959 | 0.00882397 | TRHDE |
| 5 | 1,875,000 | 2,025,000 | 26 | 929 | 0.435063886 | TRHDE |
| 5 | 1,950,000 | 2,100,000 | 27 | 1144 | 0.495415284 | TRHDE |
| 5 | 2,025,000 | 2,175,000 | 28 | 1338 | -0.221792072 | TRHDE |
| 5 | 2,100,000 | 2,250,000 | 29 | 1164 | -0.538389045 | TRHDE |
| 5 | 2,175,000 | 2,325,000 | 30 | 1022 | 0.468382437 | TRHDE |
| 5 | 2,250,000 | 2,400,000 | 31 | 789 | 0.361176867 | TRHDE |
| 5 | 2,325,000 | 2,475,000 | 32 | 764 | 0.399926122 | TRHDE |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|-------------------------|
| 5 | 2,400,000 | 2,550,000 | 33 | 1092 | 0.549067778 | |
| 5 | 2,475,000 | 2,625,000 | 34 | 1000 | 0.354130532 | |
| 5 | 2,550,000 | 2,700,000 | 35 | 960 | 0.481806028 | |
| 5 | 2,625,000 | 2,775,000 | 36 | 983 | 0.520066427 | |
| 5 | 2,700,000 | 2,850,000 | 37 | 941 | 0.159305956 | |
| 5 | 2,775,000 | 2,925,000 | 38 | 1094 | -0.037171706 | |
| 5 | 2,850,000 | 3,000,000 | 39 | 1044 | -0.262839842 | |
| 5 | 2,925,000 | 3,075,000 | 40 | 776 | -0.119133981 | |
| 5 | 3,000,000 | 3,150,000 | 41 | 616 | 0.369665129 | |
| 5 | 3,075,000 | 3,225,000 | 42 | 849 | 0.158582887 | |
| 5 | 3,150,000 | 3,300,000 | 43 | 931 | 0.170116619 | |
| 5 | 3,225,000 | 3,375,000 | 44 | 1034 | 0.641257113 | |
| 5 | 3,300,000 | 3,450,000 | 45 | 998 | 0.816143679 | |
| 5 | 3,375,000 | 3,525,000 | 46 | 991 | 1.040281802 | |
| 5 | 3,450,000 | 3,600,000 | 47 | 893 | 1.109431338 | |
| 5 | 3,525,000 | 3,675,000 | 48 | 736 | 0.194455509 | |
| 5 | 3,600,000 | 3,750,000 | 49 | 790 | -0.021582635 | |
| 5 | 3,675,000 | 3,825,000 | 50 | 975 | 0.309815301 | |
| 5 | 3,750,000 | 3,900,000 | 51 | 1078 | 0.208787417 | |
| 5 | 3,825,000 | 3,975,000 | 52 | 688 | 0.085278458 | |
| 5 | 3,900,000 | 4,050,000 | 53 | 913 | -0.710907013 | ATXN7L3B |
| 5 | 3,975,000 | 4,125,000 | 54 | 1271 | -0.64174687 | ATXN7L3B |
| 5 | 4,050,000 | 4,200,000 | 55 | 1153 | -0.454402425 | ATXN7L3B |
| 5 | 4,125,000 | 4,275,000 | 56 | 875 | -1.875570149 | |
| 5 | 4,200,000 | 4,350,000 | 57 | 828 | -3.141807646 | |
| 5 | 4,275,000 | 4,425,000 | 58 | 969 | -3.493426766 | |
| 5 | 4,350,000 | 4,500,000 | 59 | 999 | -2.589461212 | |
| 5 | 4,425,000 | 4,575,000 | 60 | 1059 | -1.25521111 | |
| 5 | 4,500,000 | 4,650,000 | 61 | 1141 | -0.53331393 | |
| 5 | 4,575,000 | 4,725,000 | 62 | 1160 | 0.449510031 | |
| 5 | 4,650,000 | 4,800,000 | 63 | 978 | 0.195040096 | CAPS2 |
| 5 | 4,725,000 | 4,875,000 | 64 | 1029 | 0.648210882 | CAPS2,GLIPR1L1 |
| 5 | 4,800,000 | 4,950,000 | 65 | 1210 | 0.889796442 | CAPS2,GLIPR1L1,GLIPR1L2 |
| 5 | 4,875,000 | 5,025,000 | 66 | 1290 | 0.802670028 | GLIPR1,GLIPR1L2,KRR1 |
| 5 | 4,950,000 | 5,100,000 | 67 | 1220 | 0.711678288 | GLIPR1,KRR1 |
| 5 | 5,025,000 | 5,175,000 | 68 | 1250 | -0.563479189 | KRR1 |
| 5 | 5,100,000 | 5,250,000 | 69 | 1748 | -0.1023467 | |
| 5 | 5,175,000 | 5,325,000 | 70 | 1355 | 0.154285871 | |
| 5 | 5,250,000 | 5,400,000 | 71 | 777 | 0.202430436 | |
| 5 | 5,325,000 | 5,475,000 | 72 | 716 | 0.3470301 | |
| 5 | 5,400,000 | 5,550,000 | 73 | 783 | -0.306718006 | |
| 5 | 5,475,000 | 5,625,000 | 74 | 720 | -0.856985264 | NAP1L1,PHLDA1 |
| 5 | 5,550,000 | 5,700,000 | 75 | 497 | -0.676844793 | NAP1L1,PHLDA1 |
| 5 | 5,625,000 | 5,775,000 | 76 | 852 | -0.032179962 | |
| 5 | 5,700,000 | 5,850,000 | 77 | 724 | 0.077352162 | BBS10,OSBPL8 |
| 5 | 5,775,000 | 5,925,000 | 78 | 479 | 0.846449237 | BBS10,OSBPL8 |
| 5 | 5,850,000 | 6,000,000 | 79 | 628 | 0.398865708 | OSBPL8 |
| 5 | 5,925,000 | 6,075,000 | 80 | 628 | -0.208239722 | |
| 5 | 6,000,000 | 6,150,000 | 81 | 611 | 0.021430205 | |
| 5 | 6,075,000 | 6,225,000 | 82 | 616 | 0.764705741 | ZDHHC17 |
| 5 | 6,150,000 | 6,300,000 | 83 | 803 | 0.394688235 | CSRP2,ZDHHC17 |
| 5 | 6,225,000 | 6,375,000 | 84 | 948 | 0.296529373 | CSRP2,ZDHHC17 |
| 5 | 6,300,000 | 6,450,000 | 85 | 685 | 0.48248944 | E2F7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 5 | 6,375,000 | 6,525,000 | 86 | 524 | -0.20037999 | E2F7 |
| 5 | 6,450,000 | 6,600,000 | 87 | 696 | -0.143068391 | E2F7 |
| 5 | 6,525,000 | 6,675,000 | 88 | 708 | -0.327805007 | |
| 5 | 6,600,000 | 6,750,000 | 89 | 667 | -1.008098228 | |
| 5 | 6,675,000 | 6,825,000 | 90 | 586 | -0.541123449 | |
| 5 | 6,750,000 | 6,900,000 | 91 | 570 | 0.279476521 | |
| 5 | 6,825,000 | 6,975,000 | 92 | 987 | 0.085226182 | |
| 5 | 6,900,000 | 7,050,000 | 93 | 1402 | 0.178105667 | |
| 5 | 6,975,000 | 7,125,000 | 94 | 1196 | -0.053515811 | |
| 5 | 7,050,000 | 7,200,000 | 95 | 772 | -0.630528847 | |
| 5 | 7,125,000 | 7,275,000 | 96 | 821 | 0.0473245 | |
| 5 | 7,200,000 | 7,350,000 | 97 | 765 | 0.615011459 | |
| 5 | 7,275,000 | 7,425,000 | 98 | 505 | -0.589111447 | NAV3 |
| 5 | 7,350,000 | 7,500,000 | 99 | 421 | -0.595053635 | NAV3 |
| 5 | 7,425,000 | 7,575,000 | 100 | 592 | 0.698714025 | NAV3 |
| 5 | 7,500,000 | 7,650,000 | 101 | 710 | 0.683842778 | NAV3 |
| 5 | 7,575,000 | 7,725,000 | 102 | 785 | 0.549210847 | NAV3 |
| 5 | 7,650,000 | 7,800,000 | 103 | 1112 | -0.214361937 | NAV3 |
| 5 | 7,725,000 | 7,875,000 | 104 | 1465 | -0.191005939 | |
| 5 | 7,800,000 | 7,950,000 | 105 | 1269 | 0.540117768 | |
| 5 | 7,875,000 | 8,025,000 | 106 | 1002 | 0.337475881 | |
| 5 | 7,950,000 | 8,100,000 | 107 | 1244 | -0.304973676 | |
| 5 | 8,025,000 | 8,175,000 | 108 | 1030 | -0.230003613 | |
| 5 | 8,100,000 | 8,250,000 | 109 | 881 | 0.102046681 | |
| 5 | 8,175,000 | 8,325,000 | 110 | 975 | 0.618418841 | |
| 5 | 8,250,000 | 8,400,000 | 111 | 583 | 0.715295578 | |
| 5 | 8,325,000 | 8,475,000 | 112 | 458 | 1.195553775 | |
| 5 | 8,400,000 | 8,550,000 | 113 | 645 | 0.587277978 | |
| 5 | 8,475,000 | 8,625,000 | 114 | 698 | -0.494681288 | |
| 5 | 8,550,000 | 8,700,000 | 115 | 818 | 0.047912956 | |
| 5 | 8,625,000 | 8,775,000 | 116 | 958 | 0.557002995 | |
| 5 | 8,700,000 | 8,850,000 | 117 | 790 | 0.459798386 | SYT1 |
| 5 | 8,775,000 | 8,925,000 | 118 | 659 | 0.62411262 | SYT1 |
| 5 | 8,850,000 | 9,000,000 | 119 | 885 | 0.448491396 | SYT1 |
| 5 | 8,925,000 | 9,075,000 | 120 | 790 | 0.378776861 | SYT1 |
| 5 | 9,000,000 | 9,150,000 | 121 | 723 | -0.2924955 | SYT1 |
| 5 | 9,075,000 | 9,225,000 | 122 | 562 | -1.570257532 | PAWR |
| 5 | 9,150,000 | 9,300,000 | 123 | 200 | -3.067859674 | PAWR |
| 5 | 9,225,000 | 9,375,000 | 124 | 223 | -3.205040847 | PPP1R12A |
| 5 | 9,300,000 | 9,450,000 | 125 | 296 | -6.131132787 | PPP1R12A |
| 5 | 9,375,000 | 9,525,000 | 126 | 396 | -6.925262897 | PPP1R12A |
| 5 | 9,450,000 | 9,600,000 | 127 | 430 | -3.62974734 | PPP1R12A |
| 5 | 9,525,000 | 9,675,000 | 128 | 359 | 0.618719628 | |
| 5 | 9,600,000 | 9,750,000 | 129 | 447 | 0.743447314 | |
| 5 | 9,675,000 | 9,825,000 | 130 | 805 | 0.562371512 | OTOGL |
| 5 | 9,750,000 | 9,900,000 | 131 | 770 | 0.582155961 | OTOGL |
| 5 | 9,825,000 | 9,975,000 | 132 | 709 | 0.817405369 | OTOGL |
| 5 | 9,900,000 | 10,050,000 | 133 | 879 | 0.317646706 | OTOGL |
| 5 | 9,975,000 | 10,125,000 | 134 | 888 | -0.448895051 | PTPRQ |
| 5 | 10,050,000 | 10,200,000 | 135 | 790 | -0.579584952 | PTPRQ |
| 5 | 10,125,000 | 10,275,000 | 136 | 728 | 0.071838146 | PTPRQ |
| 5 | 10,200,000 | 10,350,000 | 137 | 605 | 0.364495504 | MYF5,MYF6,PTPRQ |
| 5 | 10,275,000 | 10,425,000 | 138 | 432 | -0.699301902 | LIN7A,MYF5,MYF6,PTPRQ |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------|
| 5 | 10,350,000 | 10,500,000 | 139 | 449 | -1.470213487 | LIN7A |
| 5 | 10,425,000 | 10,575,000 | 140 | 574 | -0.899901965 | LIN7A |
| 5 | 10,500,000 | 10,650,000 | 141 | 907 | -0.240441078 | LIN7A |
| 5 | 10,575,000 | 10,725,000 | 142 | 1011 | 0.17460188 | |
| 5 | 10,650,000 | 10,800,000 | 143 | 979 | 0.10415081 | ACSS3 |
| 5 | 10,725,000 | 10,875,000 | 144 | 899 | -1.307518357 | ACSS3 |
| 5 | 10,800,000 | 10,950,000 | 145 | 539 | -2.176292571 | ACSS3,PPFIA2 |
| 5 | 10,875,000 | 11,025,000 | 146 | 501 | 0.021416554 | ACSS3,PPFIA2 |
| 5 | 10,950,000 | 11,100,000 | 147 | 862 | 0.481950783 | PPFIA2 |
| 5 | 11,025,000 | 11,175,000 | 148 | 1188 | -0.027796067 | PPFIA2 |
| 5 | 11,100,000 | 11,250,000 | 149 | 1075 | -0.576565941 | PPFIA2 |
| 5 | 11,175,000 | 11,325,000 | 150 | 1383 | -2.078786983 | TMA7 |
| 5 | 11,250,000 | 11,400,000 | 151 | 1478 | -1.832495947 | TMA7 |
| 5 | 11,325,000 | 11,475,000 | 152 | 1100 | -0.199972803 | |
| 5 | 11,400,000 | 11,550,000 | 153 | 1121 | 0.43967085 | |
| 5 | 11,475,000 | 11,625,000 | 154 | 921 | 1.306436829 | |
| 5 | 11,550,000 | 11,700,000 | 155 | 694 | 0.188604088 | |
| 5 | 11,625,000 | 11,775,000 | 156 | 664 | -2.746969304 | |
| 5 | 11,700,000 | 11,850,000 | 157 | 732 | -1.705642714 | |
| 5 | 11,775,000 | 11,925,000 | 158 | 549 | -1.188712946 | |
| 5 | 11,850,000 | 12,000,000 | 159 | 354 | -0.657536251 | CCDC59,METTL25 |
| 5 | 11,925,000 | 12,075,000 | 160 | 286 | -0.871927487 | CCDC59,METTL25 |
| 5 | 12,000,000 | 12,150,000 | 161 | 360 | -0.095597667 | METTL25 |
| 5 | 12,075,000 | 12,225,000 | 162 | 868 | 0.514034888 | METTL25 |
| 5 | 12,150,000 | 12,300,000 | 163 | 991 | 0.75164895 | |
| 5 | 12,225,000 | 12,375,000 | 164 | 672 | 0.597658987 | |
| 5 | 12,300,000 | 12,450,000 | 165 | 754 | 0.950333934 | |
| 5 | 12,375,000 | 12,525,000 | 166 | 1049 | 1.321627533 | TMTC2 |
| 5 | 12,450,000 | 12,600,000 | 167 | 1014 | 1.128662694 | TMTC2 |
| 5 | 12,525,000 | 12,675,000 | 168 | 916 | -1.827818346 | TMTC2 |
| 5 | 12,600,000 | 12,750,000 | 169 | 852 | -3.999978152 | |
| 5 | 12,675,000 | 12,825,000 | 170 | 885 | -1.611867986 | |
| 5 | 12,750,000 | 12,900,000 | 171 | 915 | -0.04134229 | |
| 5 | 12,825,000 | 12,975,000 | 172 | 557 | -0.1120698 | |
| 5 | 12,900,000 | 13,050,000 | 173 | 542 | -1.347929421 | |
| 5 | 12,975,000 | 13,125,000 | 174 | 1162 | -0.846590099 | |
| 5 | 13,050,000 | 13,200,000 | 175 | 1329 | 0.084127857 | |
| 5 | 13,125,000 | 13,275,000 | 176 | 1163 | -0.242072277 | |
| 5 | 13,200,000 | 13,350,000 | 177 | 1295 | -0.641268737 | |
| 5 | 13,275,000 | 13,425,000 | 178 | 1075 | -0.182485474 | |
| 5 | 13,350,000 | 13,500,000 | 179 | 777 | -0.936206853 | |
| 5 | 13,425,000 | 13,575,000 | 180 | 803 | -0.421683019 | |
| 5 | 13,500,000 | 13,650,000 | 181 | 920 | 0.530518491 | |
| 5 | 13,575,000 | 13,725,000 | 182 | 636 | 1.040445792 | |
| 5 | 13,650,000 | 13,800,000 | 183 | 270 | 0.689492016 | |
| 5 | 13,725,000 | 13,875,000 | 184 | 233 | 0.41404937 | |
| 5 | 13,800,000 | 13,950,000 | 185 | 331 | 0.821107416 | |
| 5 | 13,875,000 | 14,025,000 | 186 | 457 | 0.749667144 | |
| 5 | 13,950,000 | 14,100,000 | 187 | 459 | -0.019651029 | |
| 5 | 14,025,000 | 14,175,000 | 188 | 805 | 0.555780563 | |
| 5 | 14,100,000 | 14,250,000 | 189 | 940 | 0.751262462 | |
| 5 | 14,175,000 | 14,325,000 | 190 | 558 | 0.440817786 | |
| 5 | 14,250,000 | 14,400,000 | 191 | 487 | -0.145187079 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 5 | 14,325,000 | 14,475,000 | 192 | 649 | -0.211546303 | |
| 5 | 14,400,000 | 14,550,000 | 193 | 1029 | 0.705067205 | |
| 5 | 14,475,000 | 14,625,000 | 194 | 928 | 0.860415078 | SLC6A15 |
| 5 | 14,550,000 | 14,700,000 | 195 | 464 | -0.161020708 | SLC6A15 |
| 5 | 14,625,000 | 14,775,000 | 196 | 398 | -0.658346052 | LRRIQ1,TSPAN19 |
| 5 | 14,700,000 | 14,850,000 | 197 | 443 | -0.580811499 | LRRIQ1,TSPAN19 |
| 5 | 14,775,000 | 14,925,000 | 198 | 441 | 0.031157775 | LRRIQ1 |
| 5 | 14,850,000 | 15,000,000 | 199 | 321 | -1.268607511 | ALX1,LRRIQ1 |
| 5 | 14,925,000 | 15,075,000 | 200 | 636 | -0.07312489 | ALX1,LRRIQ1 |
| 5 | 15,000,000 | 15,150,000 | 201 | 861 | 0.54020071 | ALX1 |
| 5 | 15,075,000 | 15,225,000 | 202 | 715 | -0.960930469 | |
| 5 | 15,150,000 | 15,300,000 | 203 | 636 | -1.642342717 | |
| 5 | 15,225,000 | 15,375,000 | 204 | 450 | -0.383682551 | |
| 5 | 15,300,000 | 15,450,000 | 205 | 540 | -1.251753027 | |
| 5 | 15,375,000 | 15,525,000 | 206 | 923 | 0.224810198 | |
| 5 | 15,450,000 | 15,600,000 | 207 | 939 | -1.030951415 | RASSF9 |
| 5 | 15,525,000 | 15,675,000 | 208 | 904 | -2.019556597 | NTS,RASSF9 |
| 5 | 15,600,000 | 15,750,000 | 209 | 1151 | -1.082064482 | MGAT4C,NTS |
| 5 | 15,675,000 | 15,825,000 | 210 | 832 | -1.419088035 | MGAT4C |
| 5 | 15,750,000 | 15,900,000 | 211 | 599 | 0.370462583 | MGAT4C |
| 5 | 15,825,000 | 15,975,000 | 212 | 1021 | 0.668089235 | |
| 5 | 15,900,000 | 16,050,000 | 213 | 1083 | 0.629381939 | |
| 5 | 15,975,000 | 16,125,000 | 214 | 708 | 0.472273595 | |
| 5 | 16,050,000 | 16,200,000 | 215 | 691 | 0.970230959 | |
| 5 | 16,125,000 | 16,275,000 | 216 | 936 | 1.109501937 | |
| 5 | 16,200,000 | 16,350,000 | 217 | 1142 | 0.741851193 | |
| 5 | 16,275,000 | 16,425,000 | 218 | 1021 | 0.197817785 | |
| 5 | 16,350,000 | 16,500,000 | 219 | 680 | 0.120235482 | |
| 5 | 16,425,000 | 16,575,000 | 220 | 865 | 0.692319546 | |
| 5 | 16,500,000 | 16,650,000 | 221 | 1045 | 0.968440276 | |
| 5 | 16,575,000 | 16,725,000 | 222 | 1045 | 0.621689181 | |
| 5 | 16,650,000 | 16,800,000 | 223 | 1278 | 0.57143108 | |
| 5 | 16,725,000 | 16,875,000 | 224 | 1505 | 0.686915011 | |
| 5 | 16,800,000 | 16,950,000 | 225 | 1729 | 0.310297222 | |
| 5 | 16,875,000 | 17,025,000 | 226 | 1585 | 0.557058799 | |
| 5 | 16,950,000 | 17,100,000 | 227 | 1517 | 1.126497249 | |
| 5 | 17,025,000 | 17,175,000 | 228 | 1103 | 0.830639953 | |
| 5 | 17,100,000 | 17,250,000 | 229 | 909 | -1.846663728 | |
| 5 | 17,175,000 | 17,325,000 | 230 | 1459 | -1.334004385 | |
| 5 | 17,250,000 | 17,400,000 | 231 | 1541 | -0.266581814 | |
| 5 | 17,325,000 | 17,475,000 | 232 | 1175 | 0.605818806 | |
| 5 | 17,400,000 | 17,550,000 | 233 | 543 | 0.330094214 | |
| 5 | 17,475,000 | 17,625,000 | 234 | 854 | 0.349612119 | |
| 5 | 17,550,000 | 17,700,000 | 235 | 1229 | 1.140911748 | |
| 5 | 17,625,000 | 17,775,000 | 236 | 856 | 1.394509707 | |
| 5 | 17,700,000 | 17,850,000 | 237 | 730 | 1.287118184 | |
| 5 | 17,775,000 | 17,925,000 | 238 | 530 | 1.221945958 | C12orf50,C5H12orf29,CEP290 |
| 5 | 17,850,000 | 18,000,000 | 239 | 314 | 1.063358554 | C12orf50,C5H12orf29,CEP290 |
| 5 | 17,925,000 | 18,075,000 | 240 | 287 | -0.116114453 | CEP290,TMTC3 |
| 5 | 18,000,000 | 18,150,000 | 241 | 278 | -1.454659773 | TMTC3 |
| 5 | 18,075,000 | 18,225,000 | 242 | 491 | 0.461251031 | |
| 5 | 18,150,000 | 18,300,000 | 243 | 592 | 0.613806283 | |
| 5 | 18,225,000 | 18,375,000 | 244 | 409 | -0.234000959 | KITLG |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 5 | 18,300,000 | 18,450,000 | 245 | 344 | -0.001027648 | KITLG |
| 5 | 18,375,000 | 18,525,000 | 246 | 522 | 0.854674258 | KITLG |
| 5 | 18,450,000 | 18,600,000 | 247 | 628 | 1.130763727 | |
| 5 | 18,525,000 | 18,675,000 | 248 | 682 | 1.315533687 | |
| 5 | 18,600,000 | 18,750,000 | 249 | 613 | 1.02130385 | |
| 5 | 18,675,000 | 18,825,000 | 250 | 390 | 0.724162734 | |
| 5 | 18,750,000 | 18,900,000 | 251 | 359 | 1.059435895 | |
| 5 | 18,825,000 | 18,975,000 | 252 | 522 | 1.319418402 | |
| 5 | 18,900,000 | 19,050,000 | 253 | 830 | 1.195357049 | |
| 5 | 18,975,000 | 19,125,000 | 254 | 817 | 1.016570524 | |
| 5 | 19,050,000 | 19,200,000 | 255 | 480 | 1.003959824 | |
| 5 | 19,125,000 | 19,275,000 | 256 | 360 | -0.745060586 | |
| 5 | 19,200,000 | 19,350,000 | 257 | 399 | -1.2342045 | DUSP6 |
| 5 | 19,275,000 | 19,425,000 | 258 | 547 | -0.271358778 | DUSP6,WDR51B |
| 5 | 19,350,000 | 19,500,000 | 259 | 665 | -1.075847296 | WDR51B |
| 5 | 19,425,000 | 19,575,000 | 260 | 852 | -0.419343087 | ATP2B1,WDR51B |
| 5 | 19,500,000 | 19,650,000 | 261 | 1125 | -0.099441826 | ATP2B1 |
| 5 | 19,575,000 | 19,725,000 | 262 | 1004 | -1.415286493 | ATP2B1 |
| 5 | 19,650,000 | 19,800,000 | 263 | 908 | -1.03631293 | ATP2B1 |
| 5 | 19,725,000 | 19,875,000 | 264 | 1039 | 0.286586381 | |
| 5 | 19,800,000 | 19,950,000 | 265 | 973 | 0.663710303 | |
| 5 | 19,875,000 | 20,025,000 | 266 | 890 | 0.988353007 | |
| 5 | 19,950,000 | 20,100,000 | 267 | 848 | 1.165913161 | |
| 5 | 20,025,000 | 20,175,000 | 268 | 924 | 0.914231029 | |
| 5 | 20,100,000 | 20,250,000 | 269 | 1238 | -0.029441513 | |
| 5 | 20,175,000 | 20,325,000 | 270 | 1287 | -0.461889075 | |
| 5 | 20,250,000 | 20,400,000 | 271 | 942 | 0.044731637 | |
| 5 | 20,325,000 | 20,475,000 | 272 | 838 | 1.145704071 | |
| 5 | 20,400,000 | 20,550,000 | 273 | 688 | 0.720387125 | |
| 5 | 20,475,000 | 20,625,000 | 274 | 619 | 0.036894852 | |
| 5 | 20,550,000 | 20,700,000 | 275 | 703 | -0.109961023 | |
| 5 | 20,625,000 | 20,775,000 | 276 | 887 | 0.563721136 | |
| 5 | 20,700,000 | 20,850,000 | 277 | 865 | 1.186774384 | |
| 5 | 20,775,000 | 20,925,000 | 278 | 743 | 0.684254134 | CCER1,EPYC |
| 5 | 20,850,000 | 21,000,000 | 279 | 833 | 0.221430961 | CCER1,EPYC,KERA |
| 5 | 20,925,000 | 21,075,000 | 280 | 903 | -0.70644302 | EPYC,KERA,LUM |
| 5 | 21,000,000 | 21,150,000 | 281 | 777 | -0.600194236 | DCN,KERA,LUM |
| 5 | 21,075,000 | 21,225,000 | 282 | 676 | 0.487696628 | DCN |
| 5 | 21,150,000 | 21,300,000 | 283 | 550 | 0.780017722 | |
| 5 | 21,225,000 | 21,375,000 | 284 | 359 | -0.627040812 | |
| 5 | 21,300,000 | 21,450,000 | 285 | 423 | -2.008143552 | |
| 5 | 21,375,000 | 21,525,000 | 286 | 466 | -0.436257357 | |
| 5 | 21,450,000 | 21,600,000 | 287 | 565 | 0.901562861 | |
| 5 | 21,525,000 | 21,675,000 | 288 | 762 | 0.427611551 | |
| 5 | 21,600,000 | 21,750,000 | 289 | 1044 | 0.215801335 | |
| 5 | 21,675,000 | 21,825,000 | 290 | 1039 | 0.90625944 | |
| 5 | 21,750,000 | 21,900,000 | 291 | 856 | 0.189417522 | |
| 5 | 21,825,000 | 21,975,000 | 292 | 874 | -0.104636766 | |
| 5 | 21,900,000 | 22,050,000 | 293 | 938 | 0.480164314 | |
| 5 | 21,975,000 | 22,125,000 | 294 | 845 | 0.552905147 | BTG1 |
| 5 | 22,050,000 | 22,200,000 | 295 | 1044 | 0.566170341 | BTG1 |
| 5 | 22,125,000 | 22,275,000 | 296 | 1125 | 0.753218866 | |
| 5 | 22,200,000 | 22,350,000 | 297 | 974 | 0.940324786 | ENSBTAG00000033600 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 22,275,000 | 22,425,000 | 298 | 727 | 0.61695926 | ENSBTAG00000033600 |
| 5 | 22,350,000 | 22,500,000 | 299 | 562 | 0.284884315 | |
| 5 | 22,425,000 | 22,575,000 | 300 | 356 | 0.184090755 | |
| 5 | 22,500,000 | 22,650,000 | 301 | 362 | -0.154832165 | |
| 5 | 22,575,000 | 22,725,000 | 302 | 1087 | 0.889018098 | C12orf74 |
| 5 | 22,650,000 | 22,800,000 | 303 | 1128 | 1.011936746 | C12orf74,PLEKHG7 |
| 5 | 22,725,000 | 22,875,000 | 304 | 700 | 0.447990073 | EEA1,PLEKHG7 |
| 5 | 22,800,000 | 22,950,000 | 305 | 639 | 0.331020053 | EEA1 |
| 5 | 22,875,000 | 23,025,000 | 306 | 494 | 0.188599165 | EEA1 |
| 5 | 22,950,000 | 23,100,000 | 307 | 555 | -0.452362873 | |
| 5 | 23,025,000 | 23,175,000 | 308 | 876 | -0.638792771 | |
| 5 | 23,100,000 | 23,250,000 | 309 | 957 | -0.548700632 | |
| 5 | 23,175,000 | 23,325,000 | 310 | 793 | -0.32019096 | |
| 5 | 23,250,000 | 23,400,000 | 311 | 511 | -0.167365917 | NUDT4,UBE2N,ENSBTAG00000033531 |
| 5 | 23,325,000 | 23,475,000 | 312 | 460 | 0.76830046 | MRPL42,NUDT4,UBE2N,ENSBTAG00000033531 |
| 5 | 23,400,000 | 23,550,000 | 313 | 551 | 1.041464733 | MRPL42,SOCS2,UBE2N |
| 5 | 23,475,000 | 23,625,000 | 314 | 698 | 1.03970074 | SOCS2 |
| 5 | 23,550,000 | 23,700,000 | 315 | 587 | 0.81801492 | CRADD |
| 5 | 23,625,000 | 23,775,000 | 316 | 359 | -0.905516608 | CRADD |
| 5 | 23,700,000 | 23,850,000 | 317 | 574 | 0.211610781 | |
| 5 | 23,775,000 | 23,925,000 | 318 | 614 | 0.925809781 | |
| 5 | 23,850,000 | 24,000,000 | 319 | 618 | 0.840382995 | |
| 5 | 23,925,000 | 24,075,000 | 320 | 657 | -0.105825775 | PLXNC1 |
| 5 | 24,000,000 | 24,150,000 | 321 | 553 | -0.559762005 | PLXNC1 |
| 5 | 24,075,000 | 24,225,000 | 322 | 477 | 0.471723641 | PLXNC1 |
| 5 | 24,150,000 | 24,300,000 | 323 | 386 | 0.329654331 | CEP83,PLXNC1 |
| 5 | 24,225,000 | 24,375,000 | 324 | 336 | 0.783784358 | CEP83 |
| 5 | 24,300,000 | 24,450,000 | 325 | 581 | 1.203271247 | CEP83 |
| 5 | 24,375,000 | 24,525,000 | 326 | 926 | 1.33140629 | TMCC3 |
| 5 | 24,450,000 | 24,600,000 | 327 | 1038 | 1.115244299 | TMCC3 |
| 5 | 24,525,000 | 24,675,000 | 328 | 1366 | 0.727811609 | TMCC3 |
| 5 | 24,600,000 | 24,750,000 | 329 | 1612 | 0.703263628 | |
| 5 | 24,675,000 | 24,825,000 | 330 | 1360 | 0.681896272 | |
| 5 | 24,750,000 | 24,900,000 | 331 | 1248 | 0.748900885 | NDUFA12,NR2C1 |
| 5 | 24,825,000 | 24,975,000 | 332 | 928 | 0.821162071 | FGD6,NDUFA12,NR2C1 |
| 5 | 24,900,000 | 25,050,000 | 333 | 660 | 0.967094328 | FGD6,NR2C1 |
| 5 | 24,975,000 | 25,125,000 | 334 | 901 | 1.152779352 | FGD6,VEZT |
| 5 | 25,050,000 | 25,200,000 | 335 | 1126 | 1.114391713 | VEZT |
| 5 | 25,125,000 | 25,275,000 | 336 | 889 | 0.90809229 | METAP2 |
| 5 | 25,200,000 | 25,350,000 | 337 | 566 | 0.64780177 | METAP2,USP44,ENSBTAG00000010711 |
| 5 | 25,275,000 | 25,425,000 | 338 | 493 | 0.033286612 | METAP2,USP44,ENSBTAG00000010711,ENSBTAG00000023670 |
| 5 | 25,350,000 | 25,500,000 | 339 | 313 | -1.328907296 | ENSBTAG00000023670 |
| 5 | 25,425,000 | 25,575,000 | 340 | 405 | -1.072974815 | |
| 5 | 25,500,000 | 25,650,000 | 341 | 493 | -0.063186622 | GLYCAM1,PDE1B,PPP1R1A |
| 5 | 25,575,000 | 25,725,000 | 342 | 455 | 0.726255119 | GLYCAM1,NCKAP1L,PDE1B,PPP1R1A |
| 5 | 25,650,000 | 25,800,000 | 343 | 458 | -0.758084863 | GTSF1,ITGA5,NCKAP1L,PDE1B |
| 5 | 25,725,000 | 25,875,000 | 344 | 407 | -0.781729633 | COPZ1,GPR84,GTSF1,ITGA5,ZNF385A |
| 5 | 25,800,000 | 25,950,000 | 345 | 570 | 0.666683425 | CBX5,COPZ1,GPR84,HNRNPA1,NFE2,ZNF385A |
| 5 | 25,875,000 | 26,025,000 | 346 | 548 | 0.718257358 | CBX5,HNRNPA1,NFE2,SMUG1 |
| 5 | 25,950,000 | 26,100,000 | 347 | 335 | 0.153778967 | CBX5,SMUG1 |
| 5 | 26,025,000 | 26,175,000 | 348 | 302 | 0.101681807 | HOXC4,HOXC5,HOXC6 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 26,100,000 | 26,250,000 | 349 | 191 | 0.604176108 | HOXC10,HOXC11,HOXC12,HOXC13,HOXC4,HOXC5,HOXC6,HOXC8,HOXC9 |
| 5 | 26,175,000 | 26,325,000 | 350 | 252 | 0.54874953 | HOXC10,HOXC11,HOXC12,HOXC13,HOXC8,HOXC9 |
| 5 | 26,250,000 | 26,400,000 | 351 | 379 | 0.717151476 | HOXC13 |
| 5 | 26,325,000 | 26,475,000 | 352 | 349 | 0.398480267 | |
| 5 | 26,400,000 | 26,550,000 | 353 | 323 | -0.233545887 | ATP5G2,CALCOCO1 |
| 5 | 26,475,000 | 26,625,000 | 354 | 223 | -0.510446525 | ATP5G2,CALCOCO1,ENSBTAG00000005863 |
| 5 | 26,550,000 | 26,700,000 | 355 | 202 | -1.438573934 | MAP3K12,NPFF,TARBP2,ENSBTAG00000005863 |
| 5 | 26,625,000 | 26,775,000 | 356 | 254 | -3.873613725 | AMHR2,MAP3K12,NPFF,PCBP2,PRR13,SP1,TARBP2,ENSBTAG00000005863 |
| 5 | 26,700,000 | 26,850,000 | 357 | 257 | -3.669802498 | AMHR2,MAP3K12,PCBP2,PRR13,SP1,SP7 |
| 5 | 26,775,000 | 26,925,000 | 358 | 218 | -1.614201054 | AAAS,C5H12orf10,ESPL1,MFSD5,PFDN5,SP1,SP7 |
| 5 | 26,850,000 | 27,000,000 | 359 | 201 | -0.267820623 | AAAS,C5H12orf10,CSAD,ESPL1,ITGB7,MFSD5,PFDN5,RARG,SP7,ZNF740 |
| 5 | 26,925,000 | 27,075,000 | 360 | 241 | 1.383353524 | CSAD,IGFBP6,ITGB7,RARG,SOAT2,SPRYD3,TENC1,ZNF740 |
| 5 | 27,000,000 | 27,150,000 | 361 | 264 | 1.177982751 | CSAD,EIF4B,IGFBP6,SOAT2,SPRYD3,TENC1 |
| 5 | 27,075,000 | 27,225,000 | 362 | 516 | -0.553516053 | EIF4B,KRT18,KRT8,TENC1 |
| 5 | 27,150,000 | 27,300,000 | 363 | 928 | 0.121215727 | KRT18,KRT4,KRT78,KRT79,KRT8 |
| 5 | 27,225,000 | 27,375,000 | 364 | 1097 | 0.602197508 | KRT3,KRT4,KRT78,KRT79,ENSBTAG00000027974 |
| 5 | 27,300,000 | 27,450,000 | 365 | 861 | 0.805678407 | KRT1,KRT2,KRT3,KRT73,KRT77,ENSBTAG00000027974 |
| 5 | 27,375,000 | 27,525,000 | 366 | 606 | 0.90419334 | KRT1,KRT2,KRT71,KRT72,KRT73,KRT74,KRT77 |
| 5 | 27,450,000 | 27,600,000 | 367 | 508 | 0.911510704 | KRT5,KRT6B,KRT71,KRT72,KRT73,KRT74,ENSBTAG00000039425,ENSBTAG00000040019 |
| 5 | 27,525,000 | 27,675,000 | 368 | 449 | 0.275652618 | KRT5,KRT6B,KRT75,KRT82,ENSBTAG00000037791,ENSBTAG00000039425,ENSBTAG00000040019 |
| 5 | 27,600,000 | 27,750,000 | 369 | 488 | 0.180338459 | KRT75,KRT82,KRT83,KRT84,KRT85,ENSBTAG00000037791 |
| 5 | 27,675,000 | 27,825,000 | 370 | 408 | 0.092741619 | KRT81,KRT83,KRT84,KRT85,KRT86,ENSBTAG00000013756,ENSBTAG00000016166 |
| 5 | 27,750,000 | 27,900,000 | 371 | 408 | 0.156301852 | KRT7,KRT80,KRT81,KRT83,KRT86,ENSBTAG00000013756,ENSBTAG00000016166 |
| 5 | 27,825,000 | 27,975,000 | 372 | 438 | 0.946929979 | ATG101,KRT7,KRT80,ENSBTAG00000016166 |
| 5 | 27,900,000 | 28,050,000 | 373 | 328 | 0.77903029 | ACVR1B,ATG101,GRASP,KRT80,NR4A1 |
| 5 | 27,975,000 | 28,125,000 | 374 | 289 | 0.59456553 | ACVR1B,ACVRL1,GRASP,NR4A1 |
| 5 | 28,050,000 | 28,200,000 | 375 | 273 | 0.215459261 | ACVR1B,ACVRL1,ANKRD33,ENSBTAG00000002673 |
| 5 | 28,125,000 | 28,275,000 | 376 | 286 | 0.146544702 | ANKRD33,SCN8A,ENSBTAG00000002673 |
| 5 | 28,200,000 | 28,350,000 | 377 | 576 | 0.080782306 | SCN8A |
| 5 | 28,275,000 | 28,425,000 | 378 | 691 | 0.176382665 | SCN8A |
| 5 | 28,350,000 | 28,500,000 | 379 | 432 | 0.475796256 | SLC4A8 |
| 5 | 28,425,000 | 28,575,000 | 380 | 321 | -0.385129938 | RPL36,SLC4A8 |
| 5 | 28,500,000 | 28,650,000 | 381 | 285 | -1.47939239 | BIN2,CELA1,GALNT6,RPL36,SLC4A8 |
| 5 | 28,575,000 | 28,725,000 | 382 | 457 | -0.622109835 | BIN2,CELA1,DAZAP2,GALNT6,SMAGP |
| 5 | 28,650,000 | 28,800,000 | 383 | 499 | -0.286784292 | BIN2,DAZAP2,POU6F1,SMAGP,TFCP2 |
| 5 | 28,725,000 | 28,875,000 | 384 | 374 | -1.990606071 | CSRNP2,LETMD1,POU6F1,TFCP2 |
| 5 | 28,800,000 | 28,950,000 | 385 | 358 | -1.8089792 | CSRNP2,LETMD1,SLC11A2,TFCP2 |
| 5 | 28,875,000 | 29,025,000 | 386 | 305 | -1.747284364 | SLC11A2 |
| 5 | 28,950,000 | 29,100,000 | 387 | 424 | -0.156628467 | SLC11A2,ENSBTAG00000032899 |
| 5 | 29,025,000 | 29,175,000 | 388 | 685 | 0.236028276 | HIGD1C,METTL7A,SLC11A2,ENSBTAG00000002355,ENSBTAG00000032899 |
| 5 | 29,100,000 | 29,250,000 | 389 | 682 | -0.831273515 | HIGD1C,METTL7A,ENSBTAG00000002355,ENSBTAG00000038893 |
| 5 | 29,175,000 | 29,325,000 | 390 | 502 | -0.632013696 | ATF1,ENSBTAG00000038893 |
| 5 | 29,250,000 | 29,400,000 | 391 | 399 | 0.452420313 | ATF1,DIP2B |
| 5 | 29,325,000 | 29,475,000 | 392 | 283 | 0.513210153 | ATF1,DIP2B,HIST1H4I |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 29,400,000 | 29,550,000 | 393 | 319 | 0.968861883 | DIP2B,HIST1H4I |
| 5 | 29,475,000 | 29,625,000 | 394 | 312 | 0.939972827 | DIP2B,LARP4,ENSBTAG00000047199 |
| 5 | 29,550,000 | 29,700,000 | 395 | 224 | -0.010220517 | DIP2B,LARP4,ENSBTAG00000047199 |
| 5 | 29,625,000 | 29,775,000 | 396 | 216 | -1.13243427 | FAM186A,LARP4 |
| 5 | 29,700,000 | 29,850,000 | 397 | 366 | 0.181275749 | FAM186A,LIMA1 |
| 5 | 29,775,000 | 29,925,000 | 398 | 455 | 0.430936321 | LASS5,LIMA1 |
| 5 | 29,850,000 | 30,000,000 | 399 | 395 | -0.140134307 | ASIC1,COX14,GPD1,LASS5,LIMA1,SMARCD1 |
| 5 | 29,925,000 | 30,075,000 | 400 | 323 | -0.244678882 | AQP6,ASIC1,COX14,GPD1,LASS5,RACGAP1,SMARCD1 |
| 5 | 30,000,000 | 30,150,000 | 401 | 447 | 0.566895074 | AQP2,AQP5,AQP6,ASIC1,RACGAP1 |
| 5 | 30,075,000 | 30,225,000 | 402 | 698 | 0.650630297 | AQP2,AQP5,BCDIN3D,FAIM2 |
| 5 | 30,150,000 | 30,300,000 | 403 | 544 | 0.577919595 | BCDIN3D,FAIM2,NCKAP5L,TMBIM6 |
| 5 | 30,225,000 | 30,375,000 | 404 | 363 | 0.831082854 | FMNL3,NCKAP5L,PRPF40B,TMBIM6 |
| 5 | 30,300,000 | 30,450,000 | 405 | 342 | 0.891040311 | FAM186B,FMNL3,KCNH3,MCRS1,PRPF40B |
| 5 | 30,375,000 | 30,525,000 | 406 | 349 | 0.129632833 | FAM186B,KCNH3,MCRS1,PRPF40B,ENSBTAG00000004660 |
| 5 | 30,450,000 | 30,600,000 | 407 | 476 | 0.165722365 | KCNH3,ENSBTAG00000004660 |
| 5 | 30,525,000 | 30,675,000 | 408 | 786 | 0.674576705 | C1QL4,DNAJC22,TROAP,ENSBTAG00000004660 |
| 5 | 30,600,000 | 30,750,000 | 409 | 868 | 0.918092786 | C1QL4,DNAJC22,PRPH,TROAP,TUBA1C,ENSBTAG00000037775 |
| 5 | 30,675,000 | 30,825,000 | 410 | 494 | 1.079441891 | PRPH,TUBA1A,TUBA1C,ENSBTAG00000037775 |
| 5 | 30,750,000 | 30,900,000 | 411 | 260 | 0.688167874 | DHH,LMBR1L,TUBA1A,TUBA1B |
| 5 | 30,825,000 | 30,975,000 | 412 | 246 | 0.386902164 | DHH,KMT2D,LMBR1L,PRKAG1,RHEBL1,TUBA1A,TUBA1B |
| 5 | 30,900,000 | 31,050,000 | 413 | 231 | -0.163981545 | DDN,FKBP11,KMT2D,PRKAG1,RHEBL1,WNT1,WNT10B |
| 5 | 30,975,000 | 31,125,000 | 414 | 215 | -0.029727165 | CACNB3,CCDC65,DDN,DDX23,FKBP11,PRKAG1,RND1,WNT1,WNT10B |
| 5 | 31,050,000 | 31,200,000 | 415 | 212 | 0.766963186 | ADCY6,CACNB3,CCDC65,DDX23,FKBP11,RND1 |
| 5 | 31,125,000 | 31,275,000 | 416 | 197 | 1.313274003 | ADCY6,CACNB3,CCNT1,KANSL2 |
| 5 | 31,200,000 | 31,350,000 | 417 | 227 | 0.97743563 | CCNT1,KANSL2,LALBA |
| 5 | 31,275,000 | 31,425,000 | 418 | 309 | 0.19966343 | KANSL2,LALBA |
| 5 | 31,350,000 | 31,500,000 | 419 | 502 | -0.190054672 | ENSBTAG00000038290 |
| 5 | 31,425,000 | 31,575,000 | 420 | 546 | -0.187955732 | ENSBTAG0000000280,ENSBTAG00000007706,ENSBTAG00000038290 |
| 5 | 31,500,000 | 31,650,000 | 421 | 981 | -2.652001154 | OR8S1,ENSBTAG0000000280,ENSBTAG00000007706,ENSBTAG00000016905 |
| 5 | 31,575,000 | 31,725,000 | 422 | 1489 | -1.265441325 | C5H12orf54,OR8S1,ENSBTAG00000016317,ENSBTAG00000016905 |
| 5 | 31,650,000 | 31,800,000 | 423 | 1124 | 0.779677581 | C5H12orf54,ENSBTAG00000016317,ENSBTAG00000039152 |
| 5 | 31,725,000 | 31,875,000 | 424 | 1375 | -0.010880899 | C5H12orf54,ENSBTAG00000005054,ENSBTAG00000039152 |
| 5 | 31,800,000 | 31,950,000 | 425 | 1712 | 0.051145582 | ENSBTAG00000005054,ENSBTAG00000014748 |
| 5 | 31,875,000 | 32,025,000 | 426 | 1153 | 1.003165191 | ENSBTAG00000004181,ENSBTAG00000014748 |
| 5 | 31,950,000 | 32,100,000 | 427 | 859 | 1.191281102 | ENSBTAG00000004181 |
| 5 | 32,025,000 | 32,175,000 | 428 | 763 | 0.638663903 | ZNF641 |
| 5 | 32,100,000 | 32,250,000 | 429 | 805 | 0.525275521 | ZNF641,ENSBTAG00000032428 |
| 5 | 32,175,000 | 32,325,000 | 430 | 844 | 0.638520031 | ASB8,CCDC184,PFKM,ENSBTAG00000032428,ENSBTAG00000032429 |
| 5 | 32,250,000 | 32,400,000 | 431 | 437 | 0.379471342 | ASB8,CCDC184,PFKM,SENP1,ENSBTAG00000032429 |
| 5 | 32,325,000 | 32,475,000 | 432 | 203 | -1.714224584 | COL2A1,PFKM,SENP1 |
| 5 | 32,400,000 | 32,550,000 | 433 | 405 | -2.396705535 | COL2A1,SENP1,TMEM106C |
| 5 | 32,475,000 | 32,625,000 | 434 | 422 | -1.803106381 | COL2A1,TMEM106C,VDR |
| 5 | 32,550,000 | 32,700,000 | 435 | 222 | -0.561733584 | HDAC7,RAPGEF3,SLC48A1,VDR |
| 5 | 32,625,000 | 32,775,000 | 436 | 259 | -0.631909315 | ENDOU,HDAC7,RAPGEF3,RPAP3,SLC48A1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 5 | 32,700,000 | 32,850,000 | 437 | 467 | 0.559885734 | ENDOU,RAPGEF3,RPAP3 |
| 5 | 32,775,000 | 32,925,000 | 438 | 750 | 0.929117833 | RPAP3 |
| 5 | 32,850,000 | 33,000,000 | 439 | 1034 | 0.353011943 | |
| 5 | 32,925,000 | 33,075,000 | 440 | 937 | -0.05117323 | |
| 5 | 33,000,000 | 33,150,000 | 441 | 731 | -0.680153401 | ENSBTAG00000038027 |
| 5 | 33,075,000 | 33,225,000 | 442 | 793 | -2.015432969 | PCED1B,ENSBTAG00000038027 |
| 5 | 33,150,000 | 33,300,000 | 443 | 660 | -1.364555689 | PCED1B |
| 5 | 33,225,000 | 33,375,000 | 444 | 524 | 0.36954185 | AMIGO2,PCED1B |
| 5 | 33,300,000 | 33,450,000 | 445 | 498 | 1.03553935 | AMIGO2,PCED1B |
| 5 | 33,375,000 | 33,525,000 | 446 | 724 | 1.374323053 | |
| 5 | 33,450,000 | 33,600,000 | 447 | 865 | 1.354092504 | |
| 5 | 33,525,000 | 33,675,000 | 448 | 653 | 0.839479905 | ATA3 |
| 5 | 33,600,000 | 33,750,000 | 449 | 531 | 0.213127964 | ATA3 |
| 5 | 33,675,000 | 33,825,000 | 450 | 472 | -0.080359246 | |
| 5 | 33,750,000 | 33,900,000 | 451 | 503 | -0.453838766 | |
| 5 | 33,825,000 | 33,975,000 | 452 | 634 | -0.597355728 | |
| 5 | 33,900,000 | 34,050,000 | 453 | 554 | -0.925186001 | SLC38A2 |
| 5 | 33,975,000 | 34,125,000 | 454 | 342 | -0.993579493 | SLC38A2 |
| 5 | 34,050,000 | 34,200,000 | 455 | 416 | -0.805395855 | SLC38A1 |
| 5 | 34,125,000 | 34,275,000 | 456 | 456 | -0.465467299 | SLC38A1 |
| 5 | 34,200,000 | 34,350,000 | 457 | 477 | 0.536853717 | |
| 5 | 34,275,000 | 34,425,000 | 458 | 493 | 1.038446408 | |
| 5 | 34,350,000 | 34,500,000 | 459 | 305 | 0.877031487 | ARID2,SCAF11 |
| 5 | 34,425,000 | 34,575,000 | 460 | 127 | -1.030949509 | ARID2,SCAF11 |
| 5 | 34,500,000 | 34,650,000 | 461 | 102 | -4.35102513 | ARID2 |
| 5 | 34,575,000 | 34,725,000 | 462 | 102 | -4.054077419 | ARID2 |
| 5 | 34,650,000 | 34,800,000 | 463 | 96 | -2.014673519 | |
| 5 | 34,725,000 | 34,875,000 | 464 | 108 | -2.705146728 | |
| 5 | 34,800,000 | 34,950,000 | 465 | 264 | -0.13185047 | |
| 5 | 34,875,000 | 35,025,000 | 466 | 373 | 0.692655498 | |
| 5 | 34,950,000 | 35,100,000 | 467 | 317 | 0.411515524 | ANO6 |
| 5 | 35,025,000 | 35,175,000 | 468 | 369 | 0.792590264 | ANO6,ENSBTAG00000026249 |
| 5 | 35,100,000 | 35,250,000 | 469 | 753 | 1.351434404 | ANO6,ENSBTAG00000026249 |
| 5 | 35,175,000 | 35,325,000 | 470 | 787 | 0.727975333 | |
| 5 | 35,250,000 | 35,400,000 | 471 | 505 | -1.375697003 | |
| 5 | 35,325,000 | 35,475,000 | 472 | 679 | -0.758058324 | DBX2 |
| 5 | 35,400,000 | 35,550,000 | 473 | 544 | 0.258907804 | DBX2 |
| 5 | 35,475,000 | 35,625,000 | 474 | 306 | -0.124645277 | DBX2 |
| 5 | 35,550,000 | 35,700,000 | 475 | 333 | -0.753741588 | NELL2 |
| 5 | 35,625,000 | 35,775,000 | 476 | 386 | -0.888549376 | NELL2 |
| 5 | 35,700,000 | 35,850,000 | 477 | 472 | -0.215156421 | NELL2 |
| 5 | 35,775,000 | 35,925,000 | 478 | 703 | 0.913277677 | NELL2 |
| 5 | 35,850,000 | 36,000,000 | 479 | 872 | 0.952904545 | NELL2 |
| 5 | 35,925,000 | 36,075,000 | 480 | 783 | 0.695514196 | NELL2 |
| 5 | 36,000,000 | 36,150,000 | 481 | 809 | 0.766837686 | NELL2 |
| 5 | 36,075,000 | 36,225,000 | 482 | 615 | 0.242434833 | TMEM117 |
| 5 | 36,150,000 | 36,300,000 | 483 | 724 | 0.59622067 | TMEM117 |
| 5 | 36,225,000 | 36,375,000 | 484 | 976 | 0.791108754 | TMEM117 |
| 5 | 36,300,000 | 36,450,000 | 485 | 768 | 0.509463334 | TMEM117 |
| 5 | 36,375,000 | 36,525,000 | 486 | 542 | -1.432350571 | TMEM117 |
| 5 | 36,450,000 | 36,600,000 | 487 | 572 | -1.446925737 | TMEM117 |
| 5 | 36,525,000 | 36,675,000 | 488 | 606 | -0.210290888 | TMEM117 |
| 5 | 36,600,000 | 36,750,000 | 489 | 625 | 0.571012102 | TMEM117 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 36,675,000 | 36,825,000 | 490 | 701 | 0.804755207 | TMEM117 |
| 5 | 36,750,000 | 36,900,000 | 491 | 443 | 0.781818841 | IRAK4,TMEM117,TWF1 |
| 5 | 36,825,000 | 36,975,000 | 492 | 659 | -0.636457013 | IRAK4,PUS7L,TWF1 |
| 5 | 36,900,000 | 37,050,000 | 493 | 704 | -0.607392237 | IRAK4,PUS7L |
| 5 | 36,975,000 | 37,125,000 | 494 | 313 | 0.34002518 | ADAMTS20 |
| 5 | 37,050,000 | 37,200,000 | 495 | 295 | -0.618384307 | ADAMTS20 |
| 5 | 37,125,000 | 37,275,000 | 496 | 263 | -1.107810567 | ADAMTS20 |
| 5 | 37,200,000 | 37,350,000 | 497 | 276 | -0.084583308 | ADAMTS20 |
| 5 | 37,275,000 | 37,425,000 | 498 | 606 | -0.475878645 | ADAMTS20 |
| 5 | 37,350,000 | 37,500,000 | 499 | 632 | -0.680275901 | |
| 5 | 37,425,000 | 37,575,000 | 500 | 355 | -1.046136149 | |
| 5 | 37,500,000 | 37,650,000 | 501 | 359 | -2.418495485 | ENSBTAG00000046601 |
| 5 | 37,575,000 | 37,725,000 | 502 | 581 | -4.287316782 | ENSBTAG00000046601 |
| 5 | 37,650,000 | 37,800,000 | 503 | 1057 | -2.330686794 | |
| 5 | 37,725,000 | 37,875,000 | 504 | 1079 | -0.230366797 | |
| 5 | 37,800,000 | 37,950,000 | 505 | 644 | 0.34644949 | |
| 5 | 37,875,000 | 38,025,000 | 506 | 497 | -0.147607496 | |
| 5 | 37,950,000 | 38,100,000 | 507 | 568 | -1.013054356 | |
| 5 | 38,025,000 | 38,175,000 | 508 | 476 | -1.92205225 | |
| 5 | 38,100,000 | 38,250,000 | 509 | 389 | -1.653712852 | |
| 5 | 38,175,000 | 38,325,000 | 510 | 378 | -0.780784488 | PRICKLE1,ENSBTAG00000045487 |
| 5 | 38,250,000 | 38,400,000 | 511 | 608 | -2.423590098 | PPHLN1,PRICKLE1,ENSBTAG00000045487 |
| 5 | 38,325,000 | 38,475,000 | 512 | 646 | -2.243085519 | PPHLN1,PRICKLE1 |
| 5 | 38,400,000 | 38,550,000 | 513 | 536 | -0.262758237 | PPHLN1 |
| 5 | 38,475,000 | 38,625,000 | 514 | 709 | -1.841709718 | PPHLN1,ZCRB1 |
| 5 | 38,550,000 | 38,700,000 | 515 | 450 | -3.47870329 | PPHLN1,YAF2,ZCRB1 |
| 5 | 38,625,000 | 38,775,000 | 516 | 161 | -1.404758559 | GXYLT1,YAF2 |
| 5 | 38,700,000 | 38,850,000 | 517 | 394 | -0.124069855 | GXYLT1,YAF2 |
| 5 | 38,775,000 | 38,925,000 | 518 | 812 | -0.548320428 | GXYLT1 |
| 5 | 38,850,000 | 39,000,000 | 519 | 1088 | -0.744420883 | |
| 5 | 38,925,000 | 39,075,000 | 520 | 904 | -0.476695036 | |
| 5 | 39,000,000 | 39,150,000 | 521 | 579 | -0.485943336 | |
| 5 | 39,075,000 | 39,225,000 | 522 | 606 | 0.337326629 | |
| 5 | 39,150,000 | 39,300,000 | 523 | 479 | 1.074965482 | |
| 5 | 39,225,000 | 39,375,000 | 524 | 646 | 0.776108354 | |
| 5 | 39,300,000 | 39,450,000 | 525 | 770 | 0.876573787 | PDZRN4 |
| 5 | 39,375,000 | 39,525,000 | 526 | 783 | -3.564890338 | PDZRN4 |
| 5 | 39,450,000 | 39,600,000 | 527 | 836 | -3.303931682 | |
| 5 | 39,525,000 | 39,675,000 | 528 | 569 | 1.014823108 | |
| 5 | 39,600,000 | 39,750,000 | 529 | 778 | -1.432611994 | |
| 5 | 39,675,000 | 39,825,000 | 530 | 817 | -1.318986435 | |
| 5 | 39,750,000 | 39,900,000 | 531 | 502 | 0.31567978 | |
| 5 | 39,825,000 | 39,975,000 | 532 | 518 | 0.180356892 | |
| 5 | 39,900,000 | 40,050,000 | 533 | 539 | -0.344049252 | CNTN1 |
| 5 | 39,975,000 | 40,125,000 | 534 | 378 | -0.965516178 | CNTN1 |
| 5 | 40,050,000 | 40,200,000 | 535 | 744 | 0.530725233 | CNTN1 |
| 5 | 40,125,000 | 40,275,000 | 536 | 1039 | 0.856259368 | CNTN1 |
| 5 | 40,200,000 | 40,350,000 | 537 | 1103 | 1.215426889 | CNTN1 |
| 5 | 40,275,000 | 40,425,000 | 538 | 1020 | -1.065788351 | |
| 5 | 40,350,000 | 40,500,000 | 539 | 963 | -5.207271955 | |
| 5 | 40,425,000 | 40,575,000 | 540 | 1151 | -4.482764633 | ENSBTAG00000026792 |
| 5 | 40,500,000 | 40,650,000 | 541 | 1071 | -5.150634584 | ENSBTAG00000026792,ENSBTAG00000037783 |
| 5 | 40,575,000 | 40,725,000 | 542 | 900 | -5.194592622 | LRRK2,ENSBTAG00000026792,ENSBTAG00000037783 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 40,650,000 | 40,800,000 | 543 | 637 | -2.470756395 | LRRK2,ENSBTAG00000037783 |
| 5 | 40,725,000 | 40,875,000 | 544 | 636 | -2.032277286 | LRRK2 |
| 5 | 40,800,000 | 40,950,000 | 545 | 564 | -2.184574703 | LRRK2 |
| 5 | 40,875,000 | 41,025,000 | 546 | 380 | 0.119137726 | LRRK2 |
| 5 | 40,950,000 | 41,100,000 | 547 | 416 | 0.575178798 | SLC2A13 |
| 5 | 41,025,000 | 41,175,000 | 548 | 390 | 0.527319936 | SLC2A13 |
| 5 | 41,100,000 | 41,250,000 | 549 | 386 | 0.611200833 | SLC2A13 |
| 5 | 41,175,000 | 41,325,000 | 550 | 493 | 0.281114027 | SLC2A13 |
| 5 | 41,250,000 | 41,400,000 | 551 | 643 | 0.140747709 | SLC2A13 |
| 5 | 41,325,000 | 41,475,000 | 552 | 499 | 0.164834267 | SLC2A13 |
| 5 | 41,400,000 | 41,550,000 | 553 | 569 | 0.864910878 | SLC2A13 |
| 5 | 41,475,000 | 41,625,000 | 554 | 747 | 0.930646115 | C12orf40,SLC2A13 |
| 5 | 41,550,000 | 41,700,000 | 555 | 822 | 0.57259329 | ABCD2,C12orf40,SLC2A13 |
| 5 | 41,625,000 | 41,775,000 | 556 | 968 | 0.641851836 | ABCD2,C12orf40 |
| 5 | 41,700,000 | 41,850,000 | 557 | 949 | 0.788166831 | ABCD2 |
| 5 | 41,775,000 | 41,925,000 | 558 | 1274 | 1.053671693 | ABCD2 |
| 5 | 41,850,000 | 42,000,000 | 559 | 1397 | 1.139236587 | |
| 5 | 41,925,000 | 42,075,000 | 560 | 794 | 0.872137121 | |
| 5 | 42,000,000 | 42,150,000 | 561 | 506 | 0.402952928 | KIF21A |
| 5 | 42,075,000 | 42,225,000 | 562 | 1071 | -1.605061866 | KIF21A |
| 5 | 42,150,000 | 42,300,000 | 563 | 1419 | -2.156114099 | |
| 5 | 42,225,000 | 42,375,000 | 564 | 1200 | -1.628268475 | |
| 5 | 42,300,000 | 42,450,000 | 565 | 997 | -0.353526767 | CPNE8 |
| 5 | 42,375,000 | 42,525,000 | 566 | 1120 | 0.520906555 | CPNE8 |
| 5 | 42,450,000 | 42,600,000 | 567 | 1471 | 0.831526197 | CPNE8 |
| 5 | 42,525,000 | 42,675,000 | 568 | 1659 | 0.85394632 | CPNE8 |
| 5 | 42,600,000 | 42,750,000 | 569 | 1159 | 0.572383313 | CPNE8 |
| 5 | 42,675,000 | 42,825,000 | 570 | 753 | -0.22824767 | CPNE8 |
| 5 | 42,750,000 | 42,900,000 | 571 | 954 | -0.469517908 | PTPRR |
| 5 | 42,825,000 | 42,975,000 | 572 | 879 | 0.093369219 | PTPRR |
| 5 | 42,900,000 | 43,050,000 | 573 | 685 | 0.570041693 | PTPRR |
| 5 | 42,975,000 | 43,125,000 | 574 | 721 | 0.190918456 | PTPRB,PTPRR |
| 5 | 43,050,000 | 43,200,000 | 575 | 559 | -0.61389466 | PTPRB,PTPRR |
| 5 | 43,125,000 | 43,275,000 | 576 | 347 | -1.00700404 | KCNMB4,PTPRB |
| 5 | 43,200,000 | 43,350,000 | 577 | 557 | 0.04408361 | KCNMB4,PTPRB |
| 5 | 43,275,000 | 43,425,000 | 578 | 494 | -0.140084104 | CNOT2,KCNMB4 |
| 5 | 43,350,000 | 43,500,000 | 579 | 261 | -0.233439939 | CNOT2 |
| 5 | 43,425,000 | 43,575,000 | 580 | 426 | -0.414266219 | CNOT2 |
| 5 | 43,500,000 | 43,650,000 | 581 | 651 | -0.664968254 | |
| 5 | 43,575,000 | 43,725,000 | 582 | 623 | 0.125765743 | |
| 5 | 43,650,000 | 43,800,000 | 583 | 583 | 0.990957995 | MYRFL |
| 5 | 43,725,000 | 43,875,000 | 584 | 692 | 1.017768605 | MYRFL |
| 5 | 43,800,000 | 43,950,000 | 585 | 499 | 1.084794885 | MYRFL,RAB3IP |
| 5 | 43,875,000 | 44,025,000 | 586 | 372 | 0.297905757 | BEST3,RAB3IP |
| 5 | 43,950,000 | 44,100,000 | 587 | 684 | 0.369129929 | BEST3,LRRRC10 |
| 5 | 44,025,000 | 44,175,000 | 588 | 712 | 0.638243005 | BEST3,CCT2,FRS2,LRRRC10 |
| 5 | 44,100,000 | 44,250,000 | 589 | 521 | 0.749903128 | CCT2,FRS2 |
| 5 | 44,175,000 | 44,325,000 | 590 | 705 | 0.903450585 | YEATS4 |
| 5 | 44,250,000 | 44,400,000 | 591 | 851 | 0.123916378 | LYZ1,YEATS4 |
| 5 | 44,325,000 | 44,475,000 | 592 | 1049 | -0.278559816 | LYZ1,YEATS4,ENSBTAG00000000198,ENSBTAG00000022971 |
| 5 | 44,400,000 | 44,550,000 | 593 | 955 | -1.017551146 | ENSBTAG00000000198,ENSBTAG00000020564,ENSBTAG0000022971,ENSBTAG00000039170 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 44,475,000 | 44,625,000 | 594 | 579 | -4.275292419 | LYSB,LYZ1,LYZ2,ENSBTAG00000020564,ENSBTAG00000039170 |
| 5 | 44,550,000 | 44,700,000 | 595 | 547 | -0.641061111 | LYSB,LYZ1,LYZ2,LYZ3,ENSBTAG00000020564,ENSBTAG000026322 |
| 5 | 44,625,000 | 44,775,000 | 596 | 459 | 0.301391856 | CPSF6,LYZ,LYZ3,ENSBTAG00000026322 |
| 5 | 44,700,000 | 44,850,000 | 597 | 472 | 0.232192615 | CPSF6,LYZ |
| 5 | 44,775,000 | 44,925,000 | 598 | 862 | 1.046071081 | CPSF6 |
| 5 | 44,850,000 | 45,000,000 | 599 | 929 | 0.987360701 | |
| 5 | 44,925,000 | 45,075,000 | 600 | 563 | 0.333012149 | |
| 5 | 45,000,000 | 45,150,000 | 601 | 579 | -2.715774942 | CPM |
| 5 | 45,075,000 | 45,225,000 | 602 | 555 | -3.500623032 | CPM,MDM2 |
| 5 | 45,150,000 | 45,300,000 | 603 | 506 | -2.518966761 | CPM,MDM2,NUP107,SLC35E3 |
| 5 | 45,225,000 | 45,375,000 | 604 | 603 | -1.239089761 | NUP107,RAP1B,SLC35E3 |
| 5 | 45,300,000 | 45,450,000 | 605 | 638 | -0.092806238 | NUP107,RAP1B |
| 5 | 45,375,000 | 45,525,000 | 606 | 547 | 0.404018994 | RAP1B |
| 5 | 45,450,000 | 45,600,000 | 607 | 480 | 1.273909507 | |
| 5 | 45,525,000 | 45,675,000 | 608 | 577 | 1.137582129 | MDM1 |
| 5 | 45,600,000 | 45,750,000 | 609 | 595 | 0.418865334 | IL-22,MDM1 |
| 5 | 45,675,000 | 45,825,000 | 610 | 450 | -0.109947515 | IL-22 |
| 5 | 45,750,000 | 45,900,000 | 611 | 277 | -0.81750093 | IFNG |
| 5 | 45,825,000 | 45,975,000 | 612 | 264 | -1.252599507 | IFNG |
| 5 | 45,900,000 | 46,050,000 | 613 | 230 | -1.158268449 | |
| 5 | 45,975,000 | 46,125,000 | 614 | 239 | 0.115634291 | |
| 5 | 46,050,000 | 46,200,000 | 615 | 296 | 0.02477658 | |
| 5 | 46,125,000 | 46,275,000 | 616 | 587 | 1.088625531 | |
| 5 | 46,200,000 | 46,350,000 | 617 | 813 | 1.196902798 | DYRK2 |
| 5 | 46,275,000 | 46,425,000 | 618 | 613 | 1.014401634 | DYRK2 |
| 5 | 46,350,000 | 46,500,000 | 619 | 705 | 0.407543457 | |
| 5 | 46,425,000 | 46,575,000 | 620 | 825 | 0.275437382 | |
| 5 | 46,500,000 | 46,650,000 | 621 | 610 | -0.084798667 | |
| 5 | 46,575,000 | 46,725,000 | 622 | 710 | -0.023784442 | CAND1 |
| 5 | 46,650,000 | 46,800,000 | 623 | 759 | 0.572731535 | CAND1 |
| 5 | 46,725,000 | 46,875,000 | 624 | 938 | 0.977369633 | CAND1 |
| 5 | 46,800,000 | 46,950,000 | 625 | 1090 | 0.161825934 | |
| 5 | 46,875,000 | 47,025,000 | 626 | 735 | 0.232024029 | |
| 5 | 46,950,000 | 47,100,000 | 627 | 605 | 0.440799945 | |
| 5 | 47,025,000 | 47,175,000 | 628 | 869 | -0.440283875 | |
| 5 | 47,100,000 | 47,250,000 | 629 | 927 | -0.721614775 | |
| 5 | 47,175,000 | 47,325,000 | 630 | 729 | -0.485421096 | |
| 5 | 47,250,000 | 47,400,000 | 631 | 577 | -0.370918788 | |
| 5 | 47,325,000 | 47,475,000 | 632 | 750 | -0.610273313 | |
| 5 | 47,400,000 | 47,550,000 | 633 | 954 | -0.120631267 | GRIP1 |
| 5 | 47,475,000 | 47,625,000 | 634 | 584 | 0.563033691 | GRIP1 |
| 5 | 47,550,000 | 47,700,000 | 635 | 437 | 0.408953496 | GRIP1 |
| 5 | 47,625,000 | 47,775,000 | 636 | 574 | -2.6755401 | FAU,GRIP1,HELB |
| 5 | 47,700,000 | 47,850,000 | 637 | 430 | -5.00777342 | FAU,GRIP1,HELB,IRAKM |
| 5 | 47,775,000 | 47,925,000 | 638 | 267 | -3.049397748 | CGI-119,IRAKM,LLPH |
| 5 | 47,850,000 | 48,000,000 | 639 | 318 | 0.422262644 | CGI-119,LLPH |
| 5 | 47,925,000 | 48,075,000 | 640 | 526 | 0.49352656 | HMGA2 |
| 5 | 48,000,000 | 48,150,000 | 641 | 707 | 0.006183148 | HMGA2 |
| 5 | 48,075,000 | 48,225,000 | 642 | 593 | 0.259286551 | HMGA2 |
| 5 | 48,150,000 | 48,300,000 | 643 | 475 | 1.116978418 | HMGA2 |
| 5 | 48,225,000 | 48,375,000 | 644 | 740 | 0.69889181 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 5 | 48,300,000 | 48,450,000 | 645 | 895 | 0.499140397 | |
| 5 | 48,375,000 | 48,525,000 | 646 | 787 | 0.878988782 | |
| 5 | 48,450,000 | 48,600,000 | 647 | 698 | 0.918435801 | MSRB3 |
| 5 | 48,525,000 | 48,675,000 | 648 | 483 | 0.671818938 | MSRB3 |
| 5 | 48,600,000 | 48,750,000 | 649 | 281 | 1.366180121 | MSRB3 |
| 5 | 48,675,000 | 48,825,000 | 650 | 295 | 1.419675409 | LEMD3,MSRB3 |
| 5 | 48,750,000 | 48,900,000 | 651 | 422 | 1.241762067 | LEMD3 |
| 5 | 48,825,000 | 48,975,000 | 652 | 376 | 1.335736584 | LEMD3,WIF1 |
| 5 | 48,900,000 | 49,050,000 | 653 | 310 | 1.249543787 | WIF1 |
| 5 | 48,975,000 | 49,125,000 | 654 | 415 | 0.247588776 | WIF1 |
| 5 | 49,050,000 | 49,200,000 | 655 | 566 | -0.13600364 | TBC1D30 |
| 5 | 49,125,000 | 49,275,000 | 656 | 692 | 0.496964381 | TBC1D30,ENSBTAG00000000237 |
| 5 | 49,200,000 | 49,350,000 | 657 | 653 | 0.2861991 | GNS,RASSF3,TBC1D30,ENSBTAG00000000237 |
| 5 | 49,275,000 | 49,425,000 | 658 | 572 | 0.642641893 | GNS,RASSF3 |
| 5 | 49,350,000 | 49,500,000 | 659 | 456 | 1.182662 | RASSF3 |
| 5 | 49,425,000 | 49,575,000 | 660 | 467 | 1.213847602 | TBK1,XPOT |
| 5 | 49,500,000 | 49,650,000 | 661 | 468 | 1.142846423 | C12orf56,TBK1,XPOT |
| 5 | 49,575,000 | 49,725,000 | 662 | 754 | 0.918250582 | C12orf56,C5H12orf66,XPOT |
| 5 | 49,650,000 | 49,800,000 | 663 | 1240 | 0.560376395 | C12orf56,C5H12orf66 |
| 5 | 49,725,000 | 49,875,000 | 664 | 842 | -0.076778899 | C5H12orf66,SRGAP1 |
| 5 | 49,800,000 | 49,950,000 | 665 | 453 | -0.200732467 | SRGAP1 |
| 5 | 49,875,000 | 50,025,000 | 666 | 657 | 0.050524119 | SRGAP1 |
| 5 | 49,950,000 | 50,100,000 | 667 | 713 | 0.191123523 | SRGAP1 |
| 5 | 50,025,000 | 50,175,000 | 668 | 490 | 0.436723935 | TMEM5 |
| 5 | 50,100,000 | 50,250,000 | 669 | 539 | 0.477860028 | TMEM5 |
| 5 | 50,175,000 | 50,325,000 | 670 | 704 | 0.399426516 | TMEM5 |
| 5 | 50,250,000 | 50,400,000 | 671 | 753 | 0.260107466 | |
| 5 | 50,325,000 | 50,475,000 | 672 | 745 | 0.33956054 | |
| 5 | 50,400,000 | 50,550,000 | 673 | 588 | 0.609042903 | |
| 5 | 50,475,000 | 50,625,000 | 674 | 594 | 0.912180564 | AVPR1A |
| 5 | 50,550,000 | 50,700,000 | 675 | 421 | 0.306282087 | AVPR1A |
| 5 | 50,625,000 | 50,775,000 | 676 | 467 | 0.042716209 | |
| 5 | 50,700,000 | 50,850,000 | 677 | 842 | 0.662936474 | |
| 5 | 50,775,000 | 50,925,000 | 678 | 673 | 0.878216504 | PPM1H |
| 5 | 50,850,000 | 51,000,000 | 679 | 387 | -0.550725244 | PPM1H |
| 5 | 50,925,000 | 51,075,000 | 680 | 668 | -0.120295209 | PPM1H |
| 5 | 51,000,000 | 51,150,000 | 681 | 913 | 0.672501737 | PPM1H |
| 5 | 51,075,000 | 51,225,000 | 682 | 712 | 0.761542743 | MON2,PPM1H |
| 5 | 51,150,000 | 51,300,000 | 683 | 719 | -0.042881986 | MON2,PPM1H |
| 5 | 51,225,000 | 51,375,000 | 684 | 801 | 0.067392277 | MON2 |
| 5 | 51,300,000 | 51,450,000 | 685 | 481 | 0.386420263 | MON2,USP15 |
| 5 | 51,375,000 | 51,525,000 | 686 | 264 | -0.377373325 | USP15 |
| 5 | 51,450,000 | 51,600,000 | 687 | 447 | 0.053402437 | USP15 |
| 5 | 51,525,000 | 51,675,000 | 688 | 477 | 0.171313654 | |
| 5 | 51,600,000 | 51,750,000 | 689 | 692 | 0.744321796 | |
| 5 | 51,675,000 | 51,825,000 | 690 | 916 | 1.107551154 | |
| 5 | 51,750,000 | 51,900,000 | 691 | 750 | 0.915053948 | |
| 5 | 51,825,000 | 51,975,000 | 692 | 485 | -0.053614168 | |
| 5 | 51,900,000 | 52,050,000 | 693 | 394 | -0.594792901 | FAM19A2 |
| 5 | 51,975,000 | 52,125,000 | 694 | 400 | 0.431884757 | FAM19A2 |
| 5 | 52,050,000 | 52,200,000 | 695 | 478 | 0.94724899 | FAM19A2,ENSBTAG00000045842 |
| 5 | 52,125,000 | 52,275,000 | 696 | 816 | 1.085337126 | ENSBTAG00000045842 |
| 5 | 52,200,000 | 52,350,000 | 697 | 897 | -0.359040291 | |

| | | | | | | |
|---|------------|------------|-----|-----|--------------|--|
| 5 | 52,275,000 | 52,425,000 | 698 | 541 | -3.041862916 | |
| 5 | 52,350,000 | 52,500,000 | 699 | 223 | -5.784044392 | |
| 5 | 52,425,000 | 52,575,000 | 700 | 201 | -7.276801974 | |
| 5 | 52,500,000 | 52,650,000 | 701 | 280 | -5.738150755 | |
| 5 | 52,575,000 | 52,725,000 | 702 | 513 | -3.857121326 | |
| 5 | 52,650,000 | 52,800,000 | 703 | 702 | -2.756244832 | |
| 5 | 52,725,000 | 52,875,000 | 704 | 800 | -2.328859703 | ENSBTAG00000040344 |
| 5 | 52,800,000 | 52,950,000 | 705 | 573 | -2.033591519 | ENSBTAG00000040344 |
| 5 | 52,875,000 | 53,025,000 | 706 | 325 | -4.341401438 | |
| 5 | 52,950,000 | 53,100,000 | 707 | 301 | -3.312967878 | |
| 5 | 53,025,000 | 53,175,000 | 708 | 539 | -0.900118878 | |
| 5 | 53,100,000 | 53,250,000 | 709 | 701 | -0.085639108 | |
| 5 | 53,175,000 | 53,325,000 | 710 | 523 | 0.291676465 | |
| 5 | 53,250,000 | 53,400,000 | 711 | 473 | 1.039672116 | |
| 5 | 53,325,000 | 53,475,000 | 712 | 411 | 0.976288265 | |
| 5 | 53,400,000 | 53,550,000 | 713 | 417 | 0.470317057 | |
| 5 | 53,475,000 | 53,625,000 | 714 | 587 | -1.961121226 | |
| 5 | 53,550,000 | 53,700,000 | 715 | 630 | -2.08828981 | |
| 5 | 53,625,000 | 53,775,000 | 716 | 563 | -0.635078336 | |
| 5 | 53,700,000 | 53,850,000 | 717 | 744 | -0.039907562 | |
| 5 | 53,775,000 | 53,925,000 | 718 | 682 | 0.230452461 | |
| 5 | 53,850,000 | 54,000,000 | 719 | 530 | -0.083336321 | SLC16A7 |
| 5 | 53,925,000 | 54,075,000 | 720 | 493 | -0.017203404 | SLC16A7 |
| 5 | 54,000,000 | 54,150,000 | 721 | 366 | -0.107422473 | SLC16A7 |
| 5 | 54,075,000 | 54,225,000 | 722 | 495 | -0.10058114 | SLC16A7 |
| 5 | 54,150,000 | 54,300,000 | 723 | 813 | -0.475489914 | SLC16A7 |
| 5 | 54,225,000 | 54,375,000 | 724 | 971 | -1.170850773 | |
| 5 | 54,300,000 | 54,450,000 | 725 | 979 | -1.095611612 | |
| 5 | 54,375,000 | 54,525,000 | 726 | 831 | -1.754230785 | |
| 5 | 54,450,000 | 54,600,000 | 727 | 666 | -1.649179026 | |
| 5 | 54,525,000 | 54,675,000 | 728 | 847 | -0.796386347 | |
| 5 | 54,600,000 | 54,750,000 | 729 | 829 | -0.726348301 | |
| 5 | 54,675,000 | 54,825,000 | 730 | 593 | -0.601454322 | |
| 5 | 54,750,000 | 54,900,000 | 731 | 405 | -1.062387383 | LRIG3 |
| 5 | 54,825,000 | 54,975,000 | 732 | 397 | -4.585153696 | LRIG3 |
| 5 | 54,900,000 | 55,050,000 | 733 | 657 | -4.511769611 | LRIG3 |
| 5 | 54,975,000 | 55,125,000 | 734 | 538 | -2.323875543 | |
| 5 | 55,050,000 | 55,200,000 | 735 | 321 | 1.023917421 | |
| 5 | 55,125,000 | 55,275,000 | 736 | 444 | 0.396540642 | |
| 5 | 55,200,000 | 55,350,000 | 737 | 766 | -0.083478275 | |
| 5 | 55,275,000 | 55,425,000 | 738 | 911 | -0.155194888 | |
| 5 | 55,350,000 | 55,500,000 | 739 | 891 | 0.130351056 | |
| 5 | 55,425,000 | 55,575,000 | 740 | 840 | 0.744109416 | |
| 5 | 55,500,000 | 55,650,000 | 741 | 663 | 0.997437036 | |
| 5 | 55,575,000 | 55,725,000 | 742 | 937 | 0.65845768 | |
| 5 | 55,650,000 | 55,800,000 | 743 | 890 | 0.634927656 | |
| 5 | 55,725,000 | 55,875,000 | 744 | 432 | 0.68276205 | XRCC6BP1 |
| 5 | 55,800,000 | 55,950,000 | 745 | 254 | 0.677830581 | XRCC6BP1 |
| 5 | 55,875,000 | 56,025,000 | 746 | 261 | -0.079515528 | AVIL,CTDSP2,CYP27B1,METTL1,METTL21B,TSFM |
| 5 | 55,950,000 | 56,100,000 | 747 | 271 | -0.446854296 | AGAP2,AVIL,CDK4,CTDSP2,CYP27B1,MARCH9,METTL1,ME TTL21B,OS9,TSFM,TSPAN31 |
| 5 | 56,025,000 | 56,175,000 | 748 | 291 | -0.042826572 | AGAP2,CDK4,CYP27B1,MARCH9,OS9,TSPAN31 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 56,100,000 | 56,250,000 | 749 | 381 | -0.070547241 | DTX3,GALGT,GEFT,KIF5A,OS9,PIP4K2C,SLC26A10,ENSBTAG00000047374 |
| 5 | 56,175,000 | 56,325,000 | 750 | 374 | 0.212005186 | ARHGAP9,DCTN2,DDIT3,DTX3,GALGT,GEFT,GLI1,KIF5A,MARS,MBD6,PIP4K2C,SLC26A10,ENSBTAG00000047374 |
| 5 | 56,250,000 | 56,400,000 | 751 | 488 | 0.759555735 | ARHGAP9,DCTN2,DDIT3,GLI1,INHBC,INHBE,KIF5A,MARS,MBD6 |
| 5 | 56,325,000 | 56,475,000 | 752 | 556 | 0.820986826 | GLI1,INHBC,INHBE |
| 5 | 56,400,000 | 56,550,000 | 753 | 466 | 0.69003048 | NDUFA4L2,NXPH4,R3HDM2,SHMT2,STAC3 |
| 5 | 56,475,000 | 56,625,000 | 754 | 429 | -0.127080212 | LRP1,NDUFA4L2,NXPH4,R3HDM2,SHMT2,STAC3 |
| 5 | 56,550,000 | 56,700,000 | 755 | 404 | -0.192330001 | LRP1,NAB2,NXPH4,STAT6,TMEM194A |
| 5 | 56,625,000 | 56,775,000 | 756 | 718 | 1.022012589 | GPR182,LRP1,MYO1A,NAB2,STAT6,TAC3,TMEM194A,ZBTB39 |
| 5 | 56,700,000 | 56,850,000 | 757 | 902 | 1.23058032 | GPR182,MYO1A,TAC3,TMEM194A,ZBTB39 |
| 5 | 56,775,000 | 56,925,000 | 758 | 616 | 1.22567056 | GPR182,RDH16,SDR9C7 |
| 5 | 56,850,000 | 57,000,000 | 759 | 543 | 1.065067253 | RDH16,SDR9C7 |
| 5 | 56,925,000 | 57,075,000 | 760 | 472 | 0.46862031 | HSD17B6,NACA,PRIM1 |
| 5 | 57,000,000 | 57,150,000 | 761 | 356 | -0.022185657 | ATP5B,BAZ2A,HSD17B6,NACA,PRIM1,PTGES3 |
| 5 | 57,075,000 | 57,225,000 | 762 | 426 | -0.148672824 | ATP5B,BAZ2A,PTGES3,RBMS2 |
| 5 | 57,150,000 | 57,300,000 | 763 | 504 | 0.198596349 | BAZ2A,GLS2,MIP,RBMS2,SPRYD4,TIMELESS |
| 5 | 57,225,000 | 57,375,000 | 764 | 524 | 0.674621877 | APOF,APON,CNPY2,CS,GLS2,IL23A,MIP,PAN2,SPRYD4,STAT2,TIMELESS |
| 5 | 57,300,000 | 57,450,000 | 765 | 438 | 0.698839672 | ANKRD52,APOF,APON,CNPY2,COQ10A,CS,IL23A,NABP2,PAN2,RNF41,SLC39A5,STAT2 |
| 5 | 57,375,000 | 57,525,000 | 766 | 363 | 0.89418774 | ANKRD52,COQ10A,CS,FAM62A,MYL6,MYL6B,NABP2,RNF41,SLC39A5,SMARCC2,ZC3H10 |
| 5 | 57,450,000 | 57,600,000 | 767 | 408 | 0.190790863 | ERBB3,FAM62A,MYL6,MYL6B,PA2G4,RNF41,SMARCC2,ZC3H10 |
| 5 | 57,525,000 | 57,675,000 | 768 | 462 | 0.2661001 | CDK2,ERBB3,IKZF4,PA2G4,PMEL17,RAB5B,RPS26,SUOX,ZC3H10 |
| 5 | 57,600,000 | 57,750,000 | 769 | 609 | 1.046073488 | CDK2,DGKA,IKZF4,PMEL17,RAB5B,RPS26,SUOX,WIBG |
| 5 | 57,675,000 | 57,825,000 | 770 | 632 | 1.123504854 | CIP29,DGKA,DNAJC14,MMP19,ORMDL2,PMEL17,WIBG,ENSBTAG00000009049 |
| 5 | 57,750,000 | 57,900,000 | 771 | 502 | 0.800194873 | BLOC1S1,CD63,CIP29,DNAJC14,GDF11,ITGA7,METTL7B,MMP19,ORMDL2,RDH5,ENSBTAG00000009049 |
| 5 | 57,825,000 | 57,975,000 | 772 | 778 | 0.573259262 | BLOC1S1,CD63,GDF11,ITGA7,METTL7B,OR10P1,RDH5,ENSBTAG00000006605,ENSBTAG00000021621 |
| 5 | 57,900,000 | 58,050,000 | 773 | 1649 | 0.48341915 | METTL7B,OR10P1,OR2AP1,ENSBTAG00000006605,ENSBTAG00000018506,ENSBTAG00000021621 |
| 5 | 57,975,000 | 58,125,000 | 774 | 1794 | 0.442477672 | OR2AP1,ENSBTAG00000018506,ENSBTAG00000021122,ENSBTAG00000037758,ENSBTAG00000047733 |
| 5 | 58,050,000 | 58,200,000 | 775 | 1399 | 0.763925158 | ENSBTAG00000021122,ENSBTAG00000037758,ENSBTAG0000047733,ENSBTAG00000047931 |
| 5 | 58,125,000 | 58,275,000 | 776 | 1835 | 0.947707225 | ENSBTAG00000037842,ENSBTAG00000047931,ENSBTAG0000047980 |
| 5 | 58,200,000 | 58,350,000 | 777 | 1993 | 0.776357594 | ENSBTAG00000037842,ENSBTAG00000047980 |
| 5 | 58,275,000 | 58,425,000 | 778 | 1486 | 0.376710635 | ENSBTAG00000047825 |
| 5 | 58,350,000 | 58,500,000 | 779 | 1386 | 0.900266121 | ENSBTAG00000021460,ENSBTAG00000024798,ENSBTAG0000047825 |
| 5 | 58,425,000 | 58,575,000 | 780 | 1182 | 1.10619331 | ENSBTAG00000021460,ENSBTAG00000024798,ENSBTAG0000046778,ENSBTAG00000048295 |
| 5 | 58,500,000 | 58,650,000 | 781 | 1138 | 0.557540953 | OR6C2,ENSBTAG00000046778,ENSBTAG00000047292,ENSBTAG00000048295 |
| 5 | 58,575,000 | 58,725,000 | 782 | 1129 | 0.655794439 | OR6C2,ENSBTAG00000047292 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 58,650,000 | 58,800,000 | 783 | 1132 | 0.447174773 | ENSBTAG00000026030,ENSBTAG00000031111,ENSBTAG0000038521 |
| 5 | 58,725,000 | 58,875,000 | 784 | 1523 | 0.573280583 | OR6C76,ENSBTAG00000026030,ENSBTAG00000031111,ENSBTAG00000038521 |
| 5 | 58,800,000 | 58,950,000 | 785 | 1650 | 1.097964457 | OR6C75,OR6C76,ENSBTAG00000048224 |
| 5 | 58,875,000 | 59,025,000 | 786 | 1391 | 1.118789226 | OR6C75,ENSBTAG00000045684,ENSBTAG00000048224 |
| 5 | 58,950,000 | 59,100,000 | 787 | 1734 | 0.932427519 | ENSBTAG00000045684,ENSBTAG00000046994 |
| 5 | 59,025,000 | 59,175,000 | 788 | 2207 | 0.914629272 | OR6C1,ENSBTAG00000046994,ENSBTAG00000048233 |
| 5 | 59,100,000 | 59,250,000 | 789 | 1908 | 1.017794765 | OR6C1,ENSBTAG00000046016,ENSBTAG00000047109,ENSBTAG00000048233 |
| 5 | 59,175,000 | 59,325,000 | 790 | 1366 | 1.110320702 | ENSBTAG00000045816,ENSBTAG00000045922,ENSBTAG0000046016,ENSBTAG00000047056,ENSBTAG00000047109,ENSBTAG00000048277 |
| 5 | 59,250,000 | 59,400,000 | 791 | 762 | 0.860876425 | ENSBTAG00000045752,ENSBTAG00000045816,ENSBTAG0000045922,ENSBTAG00000047056,ENSBTAG00000048277 |
| 5 | 59,325,000 | 59,475,000 | 792 | 542 | 0.243022205 | ENSBTAG00000002913,ENSBTAG00000045752,ENSBTAG0000047890 |
| 5 | 59,400,000 | 59,550,000 | 793 | 466 | 0.3027589 | ENSBTAG00000002913,ENSBTAG00000031099,ENSBTAG0000046446,ENSBTAG00000047890 |
| 5 | 59,475,000 | 59,625,000 | 794 | 683 | 0.596365168 | ENSBTAG00000026078,ENSBTAG00000031097,ENSBTAG0000031099,ENSBTAG00000046446 |
| 5 | 59,550,000 | 59,700,000 | 795 | 1056 | 0.448590953 | OR10A7,ENSBTAG00000026078,ENSBTAG00000031096,ENSBTAG00000031097,ENSBTAG00000047259,ENSBTAG0000047619,ENSBTAG00000047967 |
| 5 | 59,625,000 | 59,775,000 | 796 | 1253 | 0.155594062 | OR10A7,ENSBTAG00000031096,ENSBTAG00000037629,ENSBTAG00000047259,ENSBTAG00000047619,ENSBTAG0000047967 |
| 5 | 59,700,000 | 59,850,000 | 797 | 1314 | 0.366800692 | ENSBTAG00000037629,ENSBTAG00000038567,ENSBTAG0000046639 |
| 5 | 59,775,000 | 59,925,000 | 798 | 1102 | 0.224067169 | ENSBTAG00000038567,ENSBTAG00000045722,ENSBTAG0000046599,ENSBTAG00000046639,ENSBTAG00000047886 |
| 5 | 59,850,000 | 60,000,000 | 799 | 880 | 0.286514071 | ENSBTAG00000045722,ENSBTAG00000046599,ENSBTAG0000046610,ENSBTAG00000047886 |
| 5 | 59,925,000 | 60,075,000 | 800 | 725 | 0.664068418 | ENSBTAG00000046317,ENSBTAG00000046610,ENSBTAG0000046884 |
| 5 | 60,000,000 | 60,150,000 | 801 | 869 | 0.663028297 | ENSBTAG00000045807,ENSBTAG00000045982,ENSBTAG0000046317,ENSBTAG00000046761,ENSBTAG00000046884 |
| 5 | 60,075,000 | 60,225,000 | 802 | 869 | 0.632345612 | ENSBTAG00000045807,ENSBTAG00000045982,ENSBTAG0000046761,ENSBTAG00000047631 |
| 5 | 60,150,000 | 60,300,000 | 803 | 565 | -0.185988866 | NEUROD4,TESPA1,ENSBTAG00000047631 |
| 5 | 60,225,000 | 60,375,000 | 804 | 688 | 0.121369417 | NEUROD4,NTN4,TESPA1 |
| 5 | 60,300,000 | 60,450,000 | 805 | 922 | 0.953479547 | NTN4,TESPA1 |
| 5 | 60,375,000 | 60,525,000 | 806 | 755 | 1.033799635 | NTN4 |
| 5 | 60,450,000 | 60,600,000 | 807 | 859 | 0.368580809 | AMDHD1,CCDC38,NTN4,SNRPF |
| 5 | 60,525,000 | 60,675,000 | 808 | 1067 | -1.204465436 | AMDHD1,CCDC38,HAL,LTA4H,SNRPF |
| 5 | 60,600,000 | 60,750,000 | 809 | 728 | -2.187172182 | AMDHD1,HAL,LTA4H |
| 5 | 60,675,000 | 60,825,000 | 810 | 460 | -0.016415138 | ELK3,LTA4H |
| 5 | 60,750,000 | 60,900,000 | 811 | 381 | 0.37278097 | CDK17,ELK3 |
| 5 | 60,825,000 | 60,975,000 | 812 | 319 | -1.209887953 | CDK17,ELK3 |
| 5 | 60,900,000 | 61,050,000 | 813 | 389 | -0.387943192 | CDK17 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 60,975,000 | 61,125,000 | 814 | 609 | -0.481898426 | C12orf55,CDK17 |
| 5 | 61,050,000 | 61,200,000 | 815 | 604 | -0.178312846 | C12orf55 |
| 5 | 61,125,000 | 61,275,000 | 816 | 624 | 1.030516329 | C12orf55,ENSBTAG00000015792 |
| 5 | 61,200,000 | 61,350,000 | 817 | 893 | 0.909196758 | ENSBTAG00000015792 |
| 5 | 61,275,000 | 61,425,000 | 818 | 998 | 0.81244324 | ENSBTAG00000015792 |
| 5 | 61,350,000 | 61,500,000 | 819 | 679 | 0.978493853 | NEDD1 |
| 5 | 61,425,000 | 61,575,000 | 820 | 413 | 0.312967517 | NEDD1 |
| 5 | 61,500,000 | 61,650,000 | 821 | 560 | -0.620134246 | |
| 5 | 61,575,000 | 61,725,000 | 822 | 696 | 0.021317208 | |
| 5 | 61,650,000 | 61,800,000 | 823 | 615 | 0.484743464 | |
| 5 | 61,725,000 | 61,875,000 | 824 | 631 | -0.048301891 | |
| 5 | 61,800,000 | 61,950,000 | 825 | 665 | -0.214017799 | |
| 5 | 61,875,000 | 62,025,000 | 826 | 722 | -0.088783788 | |
| 5 | 61,950,000 | 62,100,000 | 827 | 659 | 0.196820653 | |
| 5 | 62,025,000 | 62,175,000 | 828 | 552 | 0.423363335 | |
| 5 | 62,100,000 | 62,250,000 | 829 | 602 | 0.527652255 | |
| 5 | 62,175,000 | 62,325,000 | 830 | 686 | 0.660476897 | |
| 5 | 62,250,000 | 62,400,000 | 831 | 705 | 0.342656186 | ENSBTAG00000045919 |
| 5 | 62,325,000 | 62,475,000 | 832 | 585 | -0.006615797 | ENSBTAG00000045919 |
| 5 | 62,400,000 | 62,550,000 | 833 | 686 | -0.756679712 | |
| 5 | 62,475,000 | 62,625,000 | 834 | 892 | -0.114052052 | |
| 5 | 62,550,000 | 62,700,000 | 835 | 926 | -0.447769661 | |
| 5 | 62,625,000 | 62,775,000 | 836 | 894 | -0.775227651 | |
| 5 | 62,700,000 | 62,850,000 | 837 | 955 | 0.988094714 | |
| 5 | 62,775,000 | 62,925,000 | 838 | 1078 | 1.022688147 | |
| 5 | 62,850,000 | 63,000,000 | 839 | 789 | 0.881293968 | |
| 5 | 62,925,000 | 63,075,000 | 840 | 305 | 0.2471171 | TMPO |
| 5 | 63,000,000 | 63,150,000 | 841 | 211 | 0.331739849 | APAF1,IKBIP,SLC25A3,TMPO |
| 5 | 63,075,000 | 63,225,000 | 842 | 283 | 0.914075855 | APAF1,IKBIP,SLC25A3,ENSBTAG00000017385 |
| 5 | 63,150,000 | 63,300,000 | 843 | 339 | 0.337425177 | ANKS1B,APAF1,ENSBTAG00000017385 |
| 5 | 63,225,000 | 63,375,000 | 844 | 522 | -0.557868418 | ANKS1B |
| 5 | 63,300,000 | 63,450,000 | 845 | 589 | -0.10670058 | ANKS1B |
| 5 | 63,375,000 | 63,525,000 | 846 | 696 | 0.943307471 | ANKS1B |
| 5 | 63,450,000 | 63,600,000 | 847 | 824 | 1.021933342 | ANKS1B |
| 5 | 63,525,000 | 63,675,000 | 848 | 792 | 0.936414351 | ANKS1B |
| 5 | 63,600,000 | 63,750,000 | 849 | 906 | 0.493623541 | ANKS1B |
| 5 | 63,675,000 | 63,825,000 | 850 | 789 | 0.191114666 | |
| 5 | 63,750,000 | 63,900,000 | 851 | 708 | 0.432329543 | |
| 5 | 63,825,000 | 63,975,000 | 852 | 1022 | 0.581230356 | |
| 5 | 63,900,000 | 64,050,000 | 853 | 1197 | 0.61079693 | |
| 5 | 63,975,000 | 64,125,000 | 854 | 867 | -0.266914487 | |
| 5 | 64,050,000 | 64,200,000 | 855 | 439 | -1.645376705 | |
| 5 | 64,125,000 | 64,275,000 | 856 | 311 | -0.922547945 | ENSBTAG00000013979 |
| 5 | 64,200,000 | 64,350,000 | 857 | 299 | 0.343946768 | ENSBTAG00000013979 |
| 5 | 64,275,000 | 64,425,000 | 858 | 322 | 0.469904087 | UHRF1BP1L |
| 5 | 64,350,000 | 64,500,000 | 859 | 483 | 0.51148859 | UHRF1BP1L |
| 5 | 64,425,000 | 64,575,000 | 860 | 759 | -1.088125689 | ACTR6,SCYL2,UHRF1BP1L |
| 5 | 64,500,000 | 64,650,000 | 861 | 722 | -2.151498676 | ACTR6,SCYL2,SLC17A8 |
| 5 | 64,575,000 | 64,725,000 | 862 | 460 | -1.393569344 | SCYL2,SLC17A8 |
| 5 | 64,650,000 | 64,800,000 | 863 | 504 | -0.581921813 | NR1H4,SLC17A8 |
| 5 | 64,725,000 | 64,875,000 | 864 | 685 | 0.339879942 | GAS2L3,NR1H4 |
| 5 | 64,800,000 | 64,950,000 | 865 | 558 | 1.297027673 | GAS2L3,NR1H4 |
| 5 | 64,875,000 | 65,025,000 | 866 | 494 | 0.760265282 | ANO4 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 64,950,000 | 65,100,000 | 867 | 830 | 0.59378268 | ANO4 |
| 5 | 65,025,000 | 65,175,000 | 868 | 1316 | -0.520743318 | ANO4 |
| 5 | 65,100,000 | 65,250,000 | 869 | 1433 | -0.443147772 | ANO4 |
| 5 | 65,175,000 | 65,325,000 | 870 | 1309 | 0.886090616 | ANO4 |
| 5 | 65,250,000 | 65,400,000 | 871 | 1013 | 1.129020932 | ANO4,SMCT1,ENSBTAG00000047741 |
| 5 | 65,325,000 | 65,475,000 | 872 | 418 | 1.00632381 | ANO4,SMCT1,ENSBTAG00000047741 |
| 5 | 65,400,000 | 65,550,000 | 873 | 216 | 0.667280478 | SMCT1,UTP20 |
| 5 | 65,475,000 | 65,625,000 | 874 | 370 | 0.534046098 | ARL1,UTP20 |
| 5 | 65,550,000 | 65,700,000 | 875 | 646 | 0.275577011 | ARL1,SPIC,UTP20,ENSBTAG00000008020 |
| 5 | 65,625,000 | 65,775,000 | 876 | 632 | 0.098306337 | MYBPC1,SPIC,ENSBTAG00000008020 |
| 5 | 65,700,000 | 65,850,000 | 877 | 378 | -0.028841264 | MYBPC1 |
| 5 | 65,775,000 | 65,925,000 | 878 | 662 | -0.354371245 | CHPT1,GNPTAB,MYBPC1,SYCP3 |
| 5 | 65,850,000 | 66,000,000 | 879 | 794 | -0.215662927 | CHPT1,GNPTAB,SYCP3 |
| 5 | 65,925,000 | 66,075,000 | 880 | 789 | 0.099358431 | FLJ11259,GNPTAB |
| 5 | 66,000,000 | 66,150,000 | 881 | 752 | 0.133589696 | FLJ11259 |
| 5 | 66,075,000 | 66,225,000 | 882 | 402 | 0.605160964 | FLJ11259,ENSBTAG00000000021 |
| 5 | 66,150,000 | 66,300,000 | 883 | 257 | 0.836055708 | NUP37,PARPBP,ENSBTAG00000000021 |
| 5 | 66,225,000 | 66,375,000 | 884 | 227 | 0.730881059 | NUP37,PARPBP,PMCH,ENSBTAG00000000021 |
| 5 | 66,300,000 | 66,450,000 | 885 | 370 | 0.52712655 | PARPBP,PMCH |
| 5 | 66,375,000 | 66,525,000 | 886 | 428 | 0.041389563 | |
| 5 | 66,450,000 | 66,600,000 | 887 | 284 | -0.679652229 | IGF-I |
| 5 | 66,525,000 | 66,675,000 | 888 | 214 | -2.626070216 | IGF-I |
| 5 | 66,600,000 | 66,750,000 | 889 | 174 | -2.702111683 | IGF-I |
| 5 | 66,675,000 | 66,825,000 | 890 | 198 | 0.221424775 | |
| 5 | 66,750,000 | 66,900,000 | 891 | 304 | 0.743336957 | |
| 5 | 66,825,000 | 66,975,000 | 892 | 573 | 0.333663086 | PAH |
| 5 | 66,900,000 | 67,050,000 | 893 | 622 | -0.178069672 | PAH |
| 5 | 66,975,000 | 67,125,000 | 894 | 437 | -0.116912039 | ASCL1,PAH |
| 5 | 67,050,000 | 67,200,000 | 895 | 503 | 0.540952691 | ASCL1 |
| 5 | 67,125,000 | 67,275,000 | 896 | 677 | 0.715968276 | |
| 5 | 67,200,000 | 67,350,000 | 897 | 582 | 0.929027385 | |
| 5 | 67,275,000 | 67,425,000 | 898 | 755 | 1.229783332 | |
| 5 | 67,350,000 | 67,500,000 | 899 | 1084 | 1.214223589 | |
| 5 | 67,425,000 | 67,575,000 | 900 | 1210 | 0.86319849 | |
| 5 | 67,500,000 | 67,650,000 | 901 | 1424 | 1.110437003 | STAB2 |
| 5 | 67,575,000 | 67,725,000 | 902 | 1191 | 1.327621897 | STAB2 |
| 5 | 67,650,000 | 67,800,000 | 903 | 792 | 1.255738747 | NT5DC3,STAB2 |
| 5 | 67,725,000 | 67,875,000 | 904 | 1121 | 0.884191747 | NT5DC3,STAB2,ENSBTAG00000027899 |
| 5 | 67,800,000 | 67,950,000 | 905 | 1616 | 0.671208913 | HSP90B1,NT5DC3,ENSBTAG00000027899 |
| 5 | 67,875,000 | 68,025,000 | 906 | 1252 | 0.705943173 | C12orf73,GLT8D2,HSP90B1,TDG,ENSBTAG00000027899 |
| 5 | 67,950,000 | 68,100,000 | 907 | 705 | 1.008692151 | C12orf73,GLT8D2,HCFC2,HSP90B1,TDG |
| 5 | 68,025,000 | 68,175,000 | 908 | 640 | 0.846461727 | GLT8D2,HCFC2,NFYB |
| 5 | 68,100,000 | 68,250,000 | 909 | 718 | 0.277817339 | NFYB,TXNRD1 |
| 5 | 68,175,000 | 68,325,000 | 910 | 1031 | 0.248255395 | TXNRD1 |
| 5 | 68,250,000 | 68,400,000 | 911 | 1043 | 0.557908771 | CHST11,TXNRD1 |
| 5 | 68,325,000 | 68,475,000 | 912 | 671 | 0.82947227 | CHST11 |
| 5 | 68,400,000 | 68,550,000 | 913 | 716 | 0.648419108 | CHST11 |
| 5 | 68,475,000 | 68,625,000 | 914 | 1014 | -0.006821177 | CHST11 |
| 5 | 68,550,000 | 68,700,000 | 915 | 760 | -0.147580621 | CHST11 |
| 5 | 68,625,000 | 68,775,000 | 916 | 408 | 0.892297713 | CHST11,SLC41A2 |
| 5 | 68,700,000 | 68,850,000 | 917 | 718 | 1.150428054 | SLC41A2 |
| 5 | 68,775,000 | 68,925,000 | 918 | 1081 | 0.884610406 | ALDH1L2,C5H12orf45,SLC41A2 |
| 5 | 68,850,000 | 69,000,000 | 919 | 1036 | 0.734174854 | ALDH1L2,C5H12orf45,KIAA1033 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 68,925,000 | 69,075,000 | 920 | 796 | 0.918129465 | ALDH1L2,APPL2,KIAA1033 |
| 5 | 69,000,000 | 69,150,000 | 921 | 857 | 1.016917156 | APPL2,KIAA1033 |
| 5 | 69,075,000 | 69,225,000 | 922 | 653 | 0.932450775 | APPL2,C12orf75,ENSBTAG00000047983 |
| 5 | 69,150,000 | 69,300,000 | 923 | 325 | -0.655785758 | C12orf75,ENSBTAG00000047983 |
| 5 | 69,225,000 | 69,375,000 | 924 | 341 | -1.065395855 | |
| 5 | 69,300,000 | 69,450,000 | 925 | 598 | -0.039294814 | |
| 5 | 69,375,000 | 69,525,000 | 926 | 908 | 0.317251651 | |
| 5 | 69,450,000 | 69,600,000 | 927 | 848 | 0.322326411 | |
| 5 | 69,525,000 | 69,675,000 | 928 | 541 | 0.066248466 | |
| 5 | 69,600,000 | 69,750,000 | 929 | 391 | -0.735862532 | |
| 5 | 69,675,000 | 69,825,000 | 930 | 454 | -1.079200316 | NUAK1 |
| 5 | 69,750,000 | 69,900,000 | 931 | 530 | -1.010852715 | NUAK1 |
| 5 | 69,825,000 | 69,975,000 | 932 | 498 | -2.019412157 | CKAP4,NUAK1 |
| 5 | 69,900,000 | 70,050,000 | 933 | 451 | -3.488124374 | CKAP4,TCP11L2 |
| 5 | 69,975,000 | 70,125,000 | 934 | 378 | -4.339999762 | CKAP4,POLR3B,TCP11L2 |
| 5 | 70,050,000 | 70,200,000 | 935 | 220 | -4.73066414 | POLR3B,TCP11L2 |
| 5 | 70,125,000 | 70,275,000 | 936 | 285 | -2.5229755 | POLR3B |
| 5 | 70,200,000 | 70,350,000 | 937 | 305 | -1.959791537 | RFX4 |
| 5 | 70,275,000 | 70,425,000 | 938 | 177 | -1.056162911 | RFX4,RIC8B |
| 5 | 70,350,000 | 70,500,000 | 939 | 139 | -1.179915833 | RFX4,RIC8B |
| 5 | 70,425,000 | 70,575,000 | 940 | 196 | -1.503580394 | RIC8B,TMEM263 |
| 5 | 70,500,000 | 70,650,000 | 941 | 241 | -1.054975959 | CRY1,MTERF2,RIC8B,TMEM263 |
| 5 | 70,575,000 | 70,725,000 | 942 | 333 | -0.942343458 | CRY1,MTERF2,TMEM263 |
| 5 | 70,650,000 | 70,800,000 | 943 | 491 | 0.320925694 | CRY1 |
| 5 | 70,725,000 | 70,875,000 | 944 | 465 | 0.998077371 | |
| 5 | 70,800,000 | 70,950,000 | 945 | 372 | 0.835070989 | BTBD11 |
| 5 | 70,875,000 | 71,025,000 | 946 | 359 | -0.849110412 | BTBD11 |
| 5 | 70,950,000 | 71,100,000 | 947 | 637 | -1.009322974 | BTBD11 |
| 5 | 71,025,000 | 71,175,000 | 948 | 894 | -0.062650984 | BTBD11 |
| 5 | 71,100,000 | 71,250,000 | 949 | 868 | 0.654595384 | BTBD11 |
| 5 | 71,175,000 | 71,325,000 | 950 | 882 | 1.096916642 | BTBD11,PRDM4,PWP1 |
| 5 | 71,250,000 | 71,400,000 | 951 | 803 | 0.967228948 | ASCL4,BPIFC,BTBD11,PRDM4,PWP1,RTCB |
| 5 | 71,325,000 | 71,475,000 | 952 | 710 | 0.799399075 | ASCL4,BPIFC,FBXO7,PRDM4,RTCB |
| 5 | 71,400,000 | 71,550,000 | 953 | 940 | 1.288849681 | BPIFC,FBXO7,SYN3 |
| 5 | 71,475,000 | 71,625,000 | 954 | 1425 | 1.207971055 | SYN3 |
| 5 | 71,550,000 | 71,700,000 | 955 | 2021 | 0.514364972 | SYN3 |
| 5 | 71,625,000 | 71,775,000 | 956 | 1711 | 0.14990456 | SYN3,TIMP3 |
| 5 | 71,700,000 | 71,850,000 | 957 | 868 | -0.057547816 | SYN3,TIMP3 |
| 5 | 71,775,000 | 71,925,000 | 958 | 647 | 0.035552977 | SYN3,TIMP3 |
| 5 | 71,850,000 | 72,000,000 | 959 | 543 | 0.251094063 | SYN3 |
| 5 | 71,925,000 | 72,075,000 | 960 | 483 | 0.408730979 | MGC137211,SYN3,ENSBTAG00000030683 |
| 5 | 72,000,000 | 72,150,000 | 961 | 929 | 0.726536069 | MGC137014,MGC137211,ENSBTAG00000030683 |
| 5 | 72,075,000 | 72,225,000 | 962 | 1233 | 0.156797081 | LARGE,MGC137014 |
| 5 | 72,150,000 | 72,300,000 | 963 | 929 | 0.061692853 | LARGE |
| 5 | 72,225,000 | 72,375,000 | 964 | 986 | 0.90629253 | LARGE |
| 5 | 72,300,000 | 72,450,000 | 965 | 1028 | 1.002008418 | LARGE |
| 5 | 72,375,000 | 72,525,000 | 966 | 865 | 0.683556044 | LARGE |
| 5 | 72,450,000 | 72,600,000 | 967 | 1422 | 0.364558608 | LARGE |
| 5 | 72,525,000 | 72,675,000 | 968 | 1656 | 0.586417996 | LARGE |
| 5 | 72,600,000 | 72,750,000 | 969 | 1097 | 0.961319731 | LARGE |
| 5 | 72,675,000 | 72,825,000 | 970 | 843 | 0.894477915 | LARGE |
| 5 | 72,750,000 | 72,900,000 | 971 | 1175 | 1.020224199 | LARGE |
| 5 | 72,825,000 | 72,975,000 | 972 | 1285 | 1.064698083 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 5 | 72,900,000 | 73,050,000 | 973 | 1111 | 0.824246206 | |
| 5 | 72,975,000 | 73,125,000 | 974 | 1151 | 0.705273356 | |
| 5 | 73,050,000 | 73,200,000 | 975 | 1356 | 0.949725264 | |
| 5 | 73,125,000 | 73,275,000 | 976 | 1482 | 0.257822051 | |
| 5 | 73,200,000 | 73,350,000 | 977 | 1434 | -0.763886644 | |
| 5 | 73,275,000 | 73,425,000 | 978 | 1291 | -0.259346093 | |
| 5 | 73,350,000 | 73,500,000 | 979 | 1108 | 0.728766182 | |
| 5 | 73,425,000 | 73,575,000 | 980 | 777 | 0.938804985 | |
| 5 | 73,500,000 | 73,650,000 | 981 | 666 | 0.952416408 | |
| 5 | 73,575,000 | 73,725,000 | 982 | 886 | 0.855066093 | ISX |
| 5 | 73,650,000 | 73,800,000 | 983 | 790 | 0.297949223 | ISX |
| 5 | 73,725,000 | 73,875,000 | 984 | 617 | 0.508901411 | HMGXB4,ISX |
| 5 | 73,800,000 | 73,950,000 | 985 | 743 | 1.271079324 | HMGXB4,TOM1 |
| 5 | 73,875,000 | 74,025,000 | 986 | 803 | 1.256018312 | HMGXB4,HMOX1,MCM5,TOM1 |
| 5 | 73,950,000 | 74,100,000 | 987 | 868 | 0.143285482 | HMOX1,MCM5 |
| 5 | 74,025,000 | 74,175,000 | 988 | 1063 | -0.023113 | MB,RASD2 |
| 5 | 74,100,000 | 74,250,000 | 989 | 1022 | 0.581277475 | APOL6,MB,RASD2 |
| 5 | 74,175,000 | 74,325,000 | 990 | 736 | 0.851553437 | APOL6,MB,RBFOX2 |
| 5 | 74,250,000 | 74,400,000 | 991 | 421 | 0.941328979 | RBFOX2 |
| 5 | 74,325,000 | 74,475,000 | 992 | 384 | 0.161958491 | RBFOX2 |
| 5 | 74,400,000 | 74,550,000 | 993 | 427 | 0.522523349 | RBFOX2 |
| 5 | 74,475,000 | 74,625,000 | 994 | 414 | 0.297800256 | |
| 5 | 74,550,000 | 74,700,000 | 995 | 1136 | -0.351100204 | ENSBTAG00000037799,ENSBTAG00000046392 |
| 5 | 74,625,000 | 74,775,000 | 996 | 1399 | -0.06159173 | ENSBTAG00000037799,ENSBTAG00000046392 |
| 5 | 74,700,000 | 74,850,000 | 997 | 1156 | 0.503079657 | |
| 5 | 74,775,000 | 74,925,000 | 998 | 1780 | 0.404434708 | ENSBTAG00000039524 |
| 5 | 74,850,000 | 75,000,000 | 999 | 1747 | 0.50808314 | APOL3,ENSBTAG00000012192,ENSBTAG00000038652,ENSBTAG00000039524 |
| 5 | 74,925,000 | 75,075,000 | 1000 | 1222 | 0.695851962 | APOL3,ENSBTAG00000012192,ENSBTAG00000038652 |
| 5 | 75,000,000 | 75,150,000 | 1001 | 1140 | 0.357736083 | APOL3,MYH9,ENSBTAG00000012192 |
| 5 | 75,075,000 | 75,225,000 | 1002 | 1029 | 0.145197434 | APOL3,MYH9 |
| 5 | 75,150,000 | 75,300,000 | 1003 | 682 | 0.619800577 | EIF3D,FOXRED2,MYH9,TXN2 |
| 5 | 75,225,000 | 75,375,000 | 1004 | 382 | 1.154630221 | CACNG2,EIF3D,FOXRED2,TXN2 |
| 5 | 75,300,000 | 75,450,000 | 1005 | 414 | 0.439696963 | CACNG2,EIF3D |
| 5 | 75,375,000 | 75,525,000 | 1006 | 393 | -0.153275462 | CACNG2,IFT27,ENSBTAG00000008137 |
| 5 | 75,450,000 | 75,600,000 | 1007 | 420 | -0.093413275 | CACNG2,IFT27,PVALB,ENSBTAG00000008137 |
| 5 | 75,525,000 | 75,675,000 | 1008 | 890 | 0.347048653 | IFT27,NCF4,PVALB |
| 5 | 75,600,000 | 75,750,000 | 1009 | 1274 | 0.50181782 | CSF2RB,NCF4 |
| 5 | 75,675,000 | 75,825,000 | 1010 | 982 | 0.369211625 | CSF2RB,MGC133880,MPST,TST |
| 5 | 75,750,000 | 75,900,000 | 1011 | 685 | 0.071592687 | KCTD17,MGC133880,MPST,TMPRSS6,TST |
| 5 | 75,825,000 | 75,975,000 | 1012 | 810 | 0.558564603 | IL2RB,KCTD17,MPST,TMPRSS6 |
| 5 | 75,900,000 | 76,050,000 | 1013 | 866 | 0.726992375 | C1QTNF6,IL2RB,RAC2,SSTR3,TMPRSS6 |
| 5 | 75,975,000 | 76,125,000 | 1014 | 761 | 0.408267384 | C1QTNF6,CYTH4,RAC2,SSTR3 |
| 5 | 76,050,000 | 76,200,000 | 1015 | 477 | 0.073148 | CYTH4,ELFN2,RAC2 |
| 5 | 76,125,000 | 76,275,000 | 1016 | 330 | -0.545018348 | ELFN2,MFNG |
| 5 | 76,200,000 | 76,350,000 | 1017 | 677 | -1.573691153 | CARD10,MFNG |
| 5 | 76,275,000 | 76,425,000 | 1018 | 878 | -1.066507014 | CARD10,MFNG,USP18 |
| 5 | 76,350,000 | 76,500,000 | 1019 | 954 | -0.141741737 | ALG10,USP18 |
| 5 | 76,425,000 | 76,575,000 | 1020 | 810 | -0.203758725 | ALG10 |
| 5 | 76,500,000 | 76,650,000 | 1021 | 446 | -0.040076004 | ALG10 |
| 5 | 76,575,000 | 76,725,000 | 1022 | 423 | 0.120285745 | SYT10 |
| 5 | 76,650,000 | 76,800,000 | 1023 | 439 | 0.061298414 | SYT10 |
| 5 | 76,725,000 | 76,875,000 | 1024 | 478 | 0.286248633 | SYT10 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------|
| 5 | 76,800,000 | 76,950,000 | 1025 | 548 | 0.406849205 | SYT10 |
| 5 | 76,875,000 | 77,025,000 | 1026 | 680 | 0.427119622 | |
| 5 | 76,950,000 | 77,100,000 | 1027 | 1028 | 0.691150611 | |
| 5 | 77,025,000 | 77,175,000 | 1028 | 1346 | 0.669923752 | |
| 5 | 77,100,000 | 77,250,000 | 1029 | 1401 | 0.503743932 | |
| 5 | 77,175,000 | 77,325,000 | 1030 | 1306 | 0.461832714 | |
| 5 | 77,250,000 | 77,400,000 | 1031 | 1083 | 0.397375197 | PKP2 |
| 5 | 77,325,000 | 77,475,000 | 1032 | 627 | 0.425225789 | PKP2 |
| 5 | 77,400,000 | 77,550,000 | 1033 | 517 | 1.13336747 | DNM1L,PKP2,YARS2 |
| 5 | 77,475,000 | 77,625,000 | 1034 | 759 | 1.078912045 | DNM1L,FGD4,YARS2 |
| 5 | 77,550,000 | 77,700,000 | 1035 | 610 | 1.05173171 | DNM1L,FGD4 |
| 5 | 77,625,000 | 77,775,000 | 1036 | 674 | 1.184235917 | FGD4 |
| 5 | 77,700,000 | 77,850,000 | 1037 | 620 | 0.860368345 | |
| 5 | 77,775,000 | 77,925,000 | 1038 | 285 | 0.466525823 | BICD1 |
| 5 | 77,850,000 | 78,000,000 | 1039 | 786 | 1.367553941 | BICD1 |
| 5 | 77,925,000 | 78,075,000 | 1040 | 1067 | 1.418613667 | |
| 5 | 78,000,000 | 78,150,000 | 1041 | 671 | 0.8461124 | |
| 5 | 78,075,000 | 78,225,000 | 1042 | 479 | -0.831615104 | |
| 5 | 78,150,000 | 78,300,000 | 1043 | 501 | -1.553746366 | KIAA1551 |
| 5 | 78,225,000 | 78,375,000 | 1044 | 595 | -0.445648682 | KIAA1551 |
| 5 | 78,300,000 | 78,450,000 | 1045 | 1134 | 0.281716929 | KIAA1551 |
| 5 | 78,375,000 | 78,525,000 | 1046 | 1134 | 0.117010429 | |
| 5 | 78,450,000 | 78,600,000 | 1047 | 595 | 0.561721379 | AMN1 |
| 5 | 78,525,000 | 78,675,000 | 1048 | 736 | 0.222849463 | AMN1,METTTL20 |
| 5 | 78,600,000 | 78,750,000 | 1049 | 660 | -1.099059043 | AMN1,METTTL20 |
| 5 | 78,675,000 | 78,825,000 | 1050 | 407 | -1.729544558 | |
| 5 | 78,750,000 | 78,900,000 | 1051 | 623 | -0.945684537 | DENND5B |
| 5 | 78,825,000 | 78,975,000 | 1052 | 865 | -1.991821292 | DENND5B |
| 5 | 78,900,000 | 79,050,000 | 1053 | 594 | -2.353335672 | DENND5B,FAM60A |
| 5 | 78,975,000 | 79,125,000 | 1054 | 374 | -0.093503239 | FAM60A |
| 5 | 79,050,000 | 79,200,000 | 1055 | 356 | 1.09187926 | CAPRIN2,FAM60A |
| 5 | 79,125,000 | 79,275,000 | 1056 | 290 | 1.226029712 | CAPRIN2,IPO8 |
| 5 | 79,200,000 | 79,350,000 | 1057 | 373 | 1.27729124 | CAPRIN2,IPO8 |
| 5 | 79,275,000 | 79,425,000 | 1058 | 380 | 0.91078208 | IPO8 |
| 5 | 79,350,000 | 79,500,000 | 1059 | 299 | 0.251434488 | |
| 5 | 79,425,000 | 79,575,000 | 1060 | 238 | 0.154475634 | |
| 5 | 79,500,000 | 79,650,000 | 1061 | 445 | -0.353556562 | |
| 5 | 79,575,000 | 79,725,000 | 1062 | 841 | -0.400128005 | |
| 5 | 79,650,000 | 79,800,000 | 1063 | 1049 | -1.565563048 | |
| 5 | 79,725,000 | 79,875,000 | 1064 | 1103 | -0.974234814 | |
| 5 | 79,800,000 | 79,950,000 | 1065 | 908 | 0.325820071 | |
| 5 | 79,875,000 | 80,025,000 | 1066 | 882 | 0.216754741 | |
| 5 | 79,950,000 | 80,100,000 | 1067 | 1099 | 0.238563157 | |
| 5 | 80,025,000 | 80,175,000 | 1068 | 928 | 0.219221885 | |
| 5 | 80,100,000 | 80,250,000 | 1069 | 679 | 0.712956274 | TMTC1 |
| 5 | 80,175,000 | 80,325,000 | 1070 | 459 | 0.787968813 | TMTC1 |
| 5 | 80,250,000 | 80,400,000 | 1071 | 412 | 0.545529373 | TMTC1 |
| 5 | 80,325,000 | 80,475,000 | 1072 | 591 | 0.533353299 | TMTC1 |
| 5 | 80,400,000 | 80,550,000 | 1073 | 819 | 0.111522669 | OVCH1,TMTC1 |
| 5 | 80,475,000 | 80,625,000 | 1074 | 824 | 0.245576784 | ERGIC2,OVCH1,TMTC1 |
| 5 | 80,550,000 | 80,700,000 | 1075 | 559 | 0.154454983 | ERGIC2,FAR2,OVCH1 |
| 5 | 80,625,000 | 80,775,000 | 1076 | 502 | -0.168046802 | ERGIC2,FAR2 |
| 5 | 80,700,000 | 80,850,000 | 1077 | 385 | 0.679506715 | FAR2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 5 | 80,775,000 | 80,925,000 | 1078 | 457 | 0.021080856 | |
| 5 | 80,850,000 | 81,000,000 | 1079 | 1105 | 0.251120083 | |
| 5 | 80,925,000 | 81,075,000 | 1080 | 1135 | 0.559764447 | |
| 5 | 81,000,000 | 81,150,000 | 1081 | 658 | 0.816788789 | |
| 5 | 81,075,000 | 81,225,000 | 1082 | 588 | 1.028151018 | |
| 5 | 81,150,000 | 81,300,000 | 1083 | 480 | 0.711708349 | |
| 5 | 81,225,000 | 81,375,000 | 1084 | 607 | -0.045626578 | |
| 5 | 81,300,000 | 81,450,000 | 1085 | 763 | -0.386901653 | |
| 5 | 81,375,000 | 81,525,000 | 1086 | 587 | -0.699235307 | |
| 5 | 81,450,000 | 81,600,000 | 1087 | 349 | -1.280066039 | CCDC91 |
| 5 | 81,525,000 | 81,675,000 | 1088 | 278 | -2.02041845 | CCDC91 |
| 5 | 81,600,000 | 81,750,000 | 1089 | 422 | -2.302681951 | CCDC91 |
| 5 | 81,675,000 | 81,825,000 | 1090 | 460 | -1.409791924 | CCDC91 |
| 5 | 81,750,000 | 81,900,000 | 1091 | 326 | -0.728849153 | CCDC91 |
| 5 | 81,825,000 | 81,975,000 | 1092 | 222 | -0.330095414 | CCDC91 |
| 5 | 81,900,000 | 82,050,000 | 1093 | 240 | -1.453978716 | CCDC91 |
| 5 | 81,975,000 | 82,125,000 | 1094 | 370 | -3.811685893 | CCDC91 |
| 5 | 82,050,000 | 82,200,000 | 1095 | 423 | -2.835808611 | |
| 5 | 82,125,000 | 82,275,000 | 1096 | 409 | -0.120611562 | PTHLH |
| 5 | 82,200,000 | 82,350,000 | 1097 | 648 | -1.32564873 | PTHLH |
| 5 | 82,275,000 | 82,425,000 | 1098 | 715 | -0.962213102 | |
| 5 | 82,350,000 | 82,500,000 | 1099 | 792 | 0.838711809 | KLHL42,MANSC4,MRPS35 |
| 5 | 82,425,000 | 82,575,000 | 1100 | 1007 | 1.013555895 | KLHL42,MANSC4,MRPS35,PPFIBP1,REP15 |
| 5 | 82,500,000 | 82,650,000 | 1101 | 1072 | 0.732938517 | MRPS35,PPFIBP1,REP15 |
| 5 | 82,575,000 | 82,725,000 | 1102 | 909 | 0.638548062 | C12orf71,PPFIBP1 |
| 5 | 82,650,000 | 82,800,000 | 1103 | 722 | -0.31785569 | C12orf71,SMCO2 |
| 5 | 82,725,000 | 82,875,000 | 1104 | 1001 | -0.960392432 | SMCO2 |
| 5 | 82,800,000 | 82,950,000 | 1105 | 1027 | -0.071458621 | ARNTL2,SMCO2 |
| 5 | 82,875,000 | 83,025,000 | 1106 | 827 | 0.501499598 | ARNTL2,STK38L |
| 5 | 82,950,000 | 83,100,000 | 1107 | 696 | -0.163258493 | STK38L |
| 5 | 83,025,000 | 83,175,000 | 1108 | 580 | -0.093377724 | STK38L |
| 5 | 83,100,000 | 83,250,000 | 1109 | 564 | 0.124270213 | MED21,TM7SF3 |
| 5 | 83,175,000 | 83,325,000 | 1110 | 466 | 0.320298986 | C5H12ORF11,FGFR1OP2,MED21,TM7SF3 |
| 5 | 83,250,000 | 83,400,000 | 1111 | 340 | 0.964301934 | C5H12ORF11,FGFR1OP2,ITPR2 |
| 5 | 83,325,000 | 83,475,000 | 1112 | 396 | 0.646681937 | ITPR2 |
| 5 | 83,400,000 | 83,550,000 | 1113 | 604 | -0.054704869 | ITPR2 |
| 5 | 83,475,000 | 83,625,000 | 1114 | 841 | 0.077972422 | ITPR2 |
| 5 | 83,550,000 | 83,700,000 | 1115 | 863 | 0.481634028 | ITPR2 |
| 5 | 83,625,000 | 83,775,000 | 1116 | 586 | 0.236725136 | ITPR2 |
| 5 | 83,700,000 | 83,850,000 | 1117 | 596 | 0.407490182 | ITPR2 |
| 5 | 83,775,000 | 83,925,000 | 1118 | 635 | 0.145925592 | ITPR2 |
| 5 | 83,850,000 | 84,000,000 | 1119 | 533 | -0.500758545 | ITPR2 |
| 5 | 83,925,000 | 84,075,000 | 1120 | 526 | -0.331067007 | ITPR2 |
| 5 | 84,000,000 | 84,150,000 | 1121 | 413 | -1.089690209 | SSPN |
| 5 | 84,075,000 | 84,225,000 | 1122 | 495 | -0.018323914 | SSPN |
| 5 | 84,150,000 | 84,300,000 | 1123 | 594 | 0.634876359 | BHLHE41,C12ORF2 |
| 5 | 84,225,000 | 84,375,000 | 1124 | 624 | -0.352038564 | BHLHE41,C12ORF2 |
| 5 | 84,300,000 | 84,450,000 | 1125 | 745 | 0.334405038 | C12ORF2 |
| 5 | 84,375,000 | 84,525,000 | 1126 | 854 | 0.738008152 | |
| 5 | 84,450,000 | 84,600,000 | 1127 | 601 | 0.764732048 | |
| 5 | 84,525,000 | 84,675,000 | 1128 | 435 | -0.454987796 | |
| 5 | 84,600,000 | 84,750,000 | 1129 | 660 | -1.131000522 | |
| 5 | 84,675,000 | 84,825,000 | 1130 | 1022 | -0.158063238 | ENSBTAG00000046108 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 5 | 84,750,000 | 84,900,000 | 1131 | 909 | 0.346780673 | LMNTD1,ENSBTAG00000046108 |
| 5 | 84,825,000 | 84,975,000 | 1132 | 767 | 0.780303389 | LMNTD1 |
| 5 | 84,900,000 | 85,050,000 | 1133 | 705 | 0.887807343 | |
| 5 | 84,975,000 | 85,125,000 | 1134 | 454 | 0.063614899 | |
| 5 | 85,050,000 | 85,200,000 | 1135 | 465 | -0.74876763 | KRAS |
| 5 | 85,125,000 | 85,275,000 | 1136 | 452 | -0.584800774 | CASC1,KRAS,LYRM5 |
| 5 | 85,200,000 | 85,350,000 | 1137 | 372 | 0.004260801 | CASC1,KRAS,LRMP,LYRM5 |
| 5 | 85,275,000 | 85,425,000 | 1138 | 438 | -0.27737638 | CASC1,LRMP |
| 5 | 85,350,000 | 85,500,000 | 1139 | 841 | -0.061554973 | BCAT1,LRMP |
| 5 | 85,425,000 | 85,575,000 | 1140 | 1196 | 0.548588042 | BCAT1 |
| 5 | 85,500,000 | 85,650,000 | 1141 | 904 | 0.83819844 | BCAT1 |
| 5 | 85,575,000 | 85,725,000 | 1142 | 510 | 0.212043321 | BCAT1 |
| 5 | 85,650,000 | 85,800,000 | 1143 | 648 | 0.263792904 | |
| 5 | 85,725,000 | 85,875,000 | 1144 | 634 | 0.527216162 | |
| 5 | 85,800,000 | 85,950,000 | 1145 | 584 | 0.323844481 | |
| 5 | 85,875,000 | 86,025,000 | 1146 | 532 | 0.303362039 | |
| 5 | 85,950,000 | 86,100,000 | 1147 | 481 | -0.268959569 | |
| 5 | 86,025,000 | 86,175,000 | 1148 | 629 | -0.385635617 | |
| 5 | 86,100,000 | 86,250,000 | 1149 | 646 | 0.002675124 | |
| 5 | 86,175,000 | 86,325,000 | 1150 | 647 | 0.550980727 | |
| 5 | 86,250,000 | 86,400,000 | 1151 | 613 | 0.404952397 | |
| 5 | 86,325,000 | 86,475,000 | 1152 | 591 | 0.364347854 | |
| 5 | 86,400,000 | 86,550,000 | 1153 | 671 | -0.075449786 | |
| 5 | 86,475,000 | 86,625,000 | 1154 | 671 | -0.662543919 | SOX5 |
| 5 | 86,550,000 | 86,700,000 | 1155 | 686 | -0.799473949 | SOX5 |
| 5 | 86,625,000 | 86,775,000 | 1156 | 568 | -0.028044951 | SOX5 |
| 5 | 86,700,000 | 86,850,000 | 1157 | 661 | 1.082401428 | SOX5 |
| 5 | 86,775,000 | 86,925,000 | 1158 | 763 | 0.929368322 | SOX5 |
| 5 | 86,850,000 | 87,000,000 | 1159 | 678 | -0.248534561 | SOX5 |
| 5 | 86,925,000 | 87,075,000 | 1160 | 725 | -0.939278315 | SOX5 |
| 5 | 87,000,000 | 87,150,000 | 1161 | 926 | -2.297713156 | SOX5 |
| 5 | 87,075,000 | 87,225,000 | 1162 | 976 | -2.778673286 | |
| 5 | 87,150,000 | 87,300,000 | 1163 | 794 | -0.898844389 | |
| 5 | 87,225,000 | 87,375,000 | 1164 | 605 | -0.055623693 | |
| 5 | 87,300,000 | 87,450,000 | 1165 | 770 | -1.209799851 | |
| 5 | 87,375,000 | 87,525,000 | 1166 | 1030 | -0.209232083 | |
| 5 | 87,450,000 | 87,600,000 | 1167 | 922 | 0.794921787 | |
| 5 | 87,525,000 | 87,675,000 | 1168 | 730 | -0.449472265 | |
| 5 | 87,600,000 | 87,750,000 | 1169 | 508 | -0.79263625 | |
| 5 | 87,675,000 | 87,825,000 | 1170 | 559 | 0.623134541 | |
| 5 | 87,750,000 | 87,900,000 | 1171 | 909 | 0.891892913 | |
| 5 | 87,825,000 | 87,975,000 | 1172 | 710 | 0.864463275 | ETNK1 |
| 5 | 87,900,000 | 88,050,000 | 1173 | 300 | -1.919844855 | ETNK1 |
| 5 | 87,975,000 | 88,125,000 | 1174 | 397 | -2.641827032 | C2CD5,ETNK1 |
| 5 | 88,050,000 | 88,200,000 | 1175 | 544 | -1.70661438 | C2CD5 |
| 5 | 88,125,000 | 88,275,000 | 1176 | 791 | -0.670911478 | C2CD5 |
| 5 | 88,200,000 | 88,350,000 | 1177 | 725 | -0.478208174 | ST8SIA1 |
| 5 | 88,275,000 | 88,425,000 | 1178 | 379 | -1.000467329 | ST8SIA1 |
| 5 | 88,350,000 | 88,500,000 | 1179 | 276 | -0.676070587 | ST8SIA1 |
| 5 | 88,425,000 | 88,575,000 | 1180 | 256 | 0.437028301 | CMAS,ST8SIA1,ENSBTAG00000026611 |
| 5 | 88,500,000 | 88,650,000 | 1181 | 531 | 0.508505218 | CMAS,ENSBTAG00000026611 |
| 5 | 88,575,000 | 88,725,000 | 1182 | 609 | 0.299021808 | ABCC9,CMAS |
| 5 | 88,650,000 | 88,800,000 | 1183 | 645 | -0.374236266 | ABCC9 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 5 | 88,725,000 | 88,875,000 | 1184 | 768 | 0.129669649 | ABCC9,KCNJ8 |
| 5 | 88,800,000 | 88,950,000 | 1185 | 623 | 0.866646655 | ABCC9,KCNJ8 |
| 5 | 88,875,000 | 89,025,000 | 1186 | 755 | 0.21047819 | GYS2,LDHB |
| 5 | 88,950,000 | 89,100,000 | 1187 | 1195 | 0.14373705 | C5H12orf39,GYS2,LDHB |
| 5 | 89,025,000 | 89,175,000 | 1188 | 975 | -0.086874697 | C5H12orf39,GOLT1B,GYS2,PYROXD1,RECQL |
| 5 | 89,100,000 | 89,250,000 | 1189 | 588 | -0.852336227 | GOLT1B,IAPP,PYROXD1,RECQL |
| 5 | 89,175,000 | 89,325,000 | 1190 | 633 | -0.768150507 | IAPP,PYROXD1,SLCO1A2,ENSBTAG00000022329 |
| 5 | 89,250,000 | 89,400,000 | 1191 | 658 | -1.690666353 | SLCO1A2,ENSBTAG00000016876,ENSBTAG00000022329 |
| 5 | 89,325,000 | 89,475,000 | 1192 | 728 | -1.569070289 | SLCO1C1,ENSBTAG00000016876,ENSBTAG00000022329 |
| 5 | 89,400,000 | 89,550,000 | 1193 | 891 | 0.275807943 | SLCO1C1 |
| 5 | 89,475,000 | 89,625,000 | 1194 | 930 | 0.448659072 | PDE3A,SLCO1C1 |
| 5 | 89,550,000 | 89,700,000 | 1195 | 807 | -0.656042453 | PDE3A |
| 5 | 89,625,000 | 89,775,000 | 1196 | 699 | -0.449268974 | |
| 5 | 89,700,000 | 89,850,000 | 1197 | 759 | -1.009455168 | |
| 5 | 89,775,000 | 89,925,000 | 1198 | 696 | -1.216178924 | |
| 5 | 89,850,000 | 90,000,000 | 1199 | 406 | -0.180241167 | |
| 5 | 89,925,000 | 90,075,000 | 1200 | 683 | -0.697094307 | |
| 5 | 90,000,000 | 90,150,000 | 1201 | 923 | -0.613581951 | |
| 5 | 90,075,000 | 90,225,000 | 1202 | 774 | -0.30388305 | |
| 5 | 90,150,000 | 90,300,000 | 1203 | 810 | -0.749990453 | |
| 5 | 90,225,000 | 90,375,000 | 1204 | 907 | -0.970915915 | |
| 5 | 90,300,000 | 90,450,000 | 1205 | 802 | -0.605969885 | |
| 5 | 90,375,000 | 90,525,000 | 1206 | 679 | -0.013704138 | |
| 5 | 90,450,000 | 90,600,000 | 1207 | 600 | 0.220311159 | |
| 5 | 90,525,000 | 90,675,000 | 1208 | 427 | 0.132742663 | |
| 5 | 90,600,000 | 90,750,000 | 1209 | 464 | 0.412753851 | |
| 5 | 90,675,000 | 90,825,000 | 1210 | 563 | -0.387390094 | |
| 5 | 90,750,000 | 90,900,000 | 1211 | 557 | -1.89452637 | AEBP2 |
| 5 | 90,825,000 | 90,975,000 | 1212 | 652 | -1.974876549 | AEBP2 |
| 5 | 90,900,000 | 91,050,000 | 1213 | 712 | -2.185201551 | AEBP2,PLEKHA5 |
| 5 | 90,975,000 | 91,125,000 | 1214 | 660 | -1.862204812 | PLEKHA5 |
| 5 | 91,050,000 | 91,200,000 | 1215 | 647 | -0.506386565 | PLEKHA5 |
| 5 | 91,125,000 | 91,275,000 | 1216 | 558 | -0.398010958 | PLEKHA5 |
| 5 | 91,200,000 | 91,350,000 | 1217 | 554 | 0.119076586 | |
| 5 | 91,275,000 | 91,425,000 | 1218 | 618 | 0.758769847 | |
| 5 | 91,350,000 | 91,500,000 | 1219 | 685 | 0.792304293 | |
| 5 | 91,425,000 | 91,575,000 | 1220 | 547 | 0.711684536 | |
| 5 | 91,500,000 | 91,650,000 | 1221 | 333 | 0.701529154 | |
| 5 | 91,575,000 | 91,725,000 | 1222 | 441 | 0.696591429 | |
| 5 | 91,650,000 | 91,800,000 | 1223 | 699 | 0.104388359 | CAPZA3,PLCZ1 |
| 5 | 91,725,000 | 91,875,000 | 1224 | 1066 | 0.060036505 | CAPZA3,PIK3C2G,PLCZ1 |
| 5 | 91,800,000 | 91,950,000 | 1225 | 1336 | 0.431299959 | PIK3C2G,PLCZ1,ENSBTAG00000047048 |
| 5 | 91,875,000 | 92,025,000 | 1226 | 985 | 0.384654158 | PIK3C2G,ENSBTAG00000047048 |
| 5 | 91,950,000 | 92,100,000 | 1227 | 556 | -0.051434823 | PIK3C2G |
| 5 | 92,025,000 | 92,175,000 | 1228 | 763 | -0.137565254 | PIK3C2G |
| 5 | 92,100,000 | 92,250,000 | 1229 | 901 | -0.474264065 | PIK3C2G |
| 5 | 92,175,000 | 92,325,000 | 1230 | 667 | -2.017579321 | PIK3C2G |
| 5 | 92,250,000 | 92,400,000 | 1231 | 466 | -4.113150371 | PIK3C2G |
| 5 | 92,325,000 | 92,475,000 | 1232 | 542 | -3.807910252 | RERGL |
| 5 | 92,400,000 | 92,550,000 | 1233 | 846 | -2.870307499 | RERGL |
| 5 | 92,475,000 | 92,625,000 | 1234 | 655 | -2.557677622 | |
| 5 | 92,550,000 | 92,700,000 | 1235 | 349 | -4.97354678 | |
| 5 | 92,625,000 | 92,775,000 | 1236 | 551 | -4.649459535 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 5 | 92,700,000 | 92,850,000 | 1237 | 711 | -2.866142409 | |
| 5 | 92,775,000 | 92,925,000 | 1238 | 896 | -0.998800428 | |
| 5 | 92,850,000 | 93,000,000 | 1239 | 818 | -0.492366715 | |
| 5 | 92,925,000 | 93,075,000 | 1240 | 454 | -1.032889715 | |
| 5 | 93,000,000 | 93,150,000 | 1241 | 401 | -3.995082582 | |
| 5 | 93,075,000 | 93,225,000 | 1242 | 654 | -3.374680703 | |
| 5 | 93,150,000 | 93,300,000 | 1243 | 824 | -0.683486234 | |
| 5 | 93,225,000 | 93,375,000 | 1244 | 567 | 0.622731316 | |
| 5 | 93,300,000 | 93,450,000 | 1245 | 213 | -0.0398161 | |
| 5 | 93,375,000 | 93,525,000 | 1246 | 282 | -4.155491402 | |
| 5 | 93,450,000 | 93,600,000 | 1247 | 439 | -3.616051698 | |
| 5 | 93,525,000 | 93,675,000 | 1248 | 530 | -0.11068879 | |
| 5 | 93,600,000 | 93,750,000 | 1249 | 452 | 1.247987959 | LMO3 |
| 5 | 93,675,000 | 93,825,000 | 1250 | 518 | 1.340552477 | LMO3 |
| 5 | 93,750,000 | 93,900,000 | 1251 | 794 | 1.283586856 | LMO3 |
| 5 | 93,825,000 | 93,975,000 | 1252 | 974 | 0.591053958 | MGST1 |
| 5 | 93,900,000 | 94,050,000 | 1253 | 895 | 0.472412696 | MGST1,SLC15A5 |
| 5 | 93,975,000 | 94,125,000 | 1254 | 901 | 0.726092994 | SLC15A5 |
| 5 | 94,050,000 | 94,200,000 | 1255 | 818 | 0.358043869 | SLC15A5 |
| 5 | 94,125,000 | 94,275,000 | 1256 | 870 | 0.419768405 | SLC15A5 |
| 5 | 94,200,000 | 94,350,000 | 1257 | 1186 | 0.894868224 | DERA |
| 5 | 94,275,000 | 94,425,000 | 1258 | 1251 | 1.041336398 | COX6B1,DERA |
| 5 | 94,350,000 | 94,500,000 | 1259 | 885 | 0.862009821 | COX6B1,DERA,STRAP |
| 5 | 94,425,000 | 94,575,000 | 1260 | 523 | 0.20234478 | DERA,STRAP |
| 5 | 94,500,000 | 94,650,000 | 1261 | 639 | 0.010472483 | |
| 5 | 94,575,000 | 94,725,000 | 1262 | 576 | 0.378720726 | EPS8 |
| 5 | 94,650,000 | 94,800,000 | 1263 | 570 | 0.568399273 | EPS8,PTPRO |
| 5 | 94,725,000 | 94,875,000 | 1264 | 792 | 0.406385615 | EPS8,PTPRO |
| 5 | 94,800,000 | 94,950,000 | 1265 | 1010 | 0.538521844 | PTPRO |
| 5 | 94,875,000 | 95,025,000 | 1266 | 1084 | 0.619436861 | PTPRO |
| 5 | 94,950,000 | 95,100,000 | 1267 | 934 | 0.761060372 | RERG |
| 5 | 95,025,000 | 95,175,000 | 1268 | 773 | 0.831927705 | RERG |
| 5 | 95,100,000 | 95,250,000 | 1269 | 633 | -0.913362526 | RERG |
| 5 | 95,175,000 | 95,325,000 | 1270 | 459 | -2.485494589 | RERG |
| 5 | 95,250,000 | 95,400,000 | 1271 | 515 | 0.519692221 | ARHGDI,ERP27,PDE6H |
| 5 | 95,325,000 | 95,475,000 | 1272 | 781 | 1.107421084 | ARHGDI,ERP27,MGP,PDE6H |
| 5 | 95,400,000 | 95,550,000 | 1273 | 726 | 1.077464315 | ART4,C12orf60,ERP27,MGP,SMCO3,ENSBTAG00000014759 |
| 5 | 95,475,000 | 95,625,000 | 1274 | 527 | 0.282962721 | ART4,C12orf60,GUCY2C,H2AFJ,SMCO3,ENSBTAG00000014759,ENSBTAG00000030504 |
| 5 | 95,550,000 | 95,700,000 | 1275 | 650 | 0.677938441 | GUCY2C,H2AFJ,ENSBTAG00000030504 |
| 5 | 95,625,000 | 95,775,000 | 1276 | 618 | 1.103056506 | GUCY2C,PLBD1 |
| 5 | 95,700,000 | 95,850,000 | 1277 | 367 | 1.040343263 | ATF7IP,PLBD1 |
| 5 | 95,775,000 | 95,925,000 | 1278 | 245 | 0.651341027 | ATF7IP,PLBD1 |
| 5 | 95,850,000 | 96,000,000 | 1279 | 230 | 0.706073405 | ATF7IP |
| 5 | 95,925,000 | 96,075,000 | 1280 | 584 | 0.354577199 | |
| 5 | 96,000,000 | 96,150,000 | 1281 | 875 | 0.263780343 | |
| 5 | 96,075,000 | 96,225,000 | 1282 | 1145 | -0.623614561 | |
| 5 | 96,150,000 | 96,300,000 | 1283 | 1108 | -0.544034791 | |
| 5 | 96,225,000 | 96,375,000 | 1284 | 646 | 0.705122922 | |
| 5 | 96,300,000 | 96,450,000 | 1285 | 735 | 0.057701215 | GRIN2B |
| 5 | 96,375,000 | 96,525,000 | 1286 | 743 | 0.176802533 | GRIN2B |
| 5 | 96,450,000 | 96,600,000 | 1287 | 603 | 0.98787643 | GRIN2B |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 96,525,000 | 96,675,000 | 1288 | 907 | 0.60278851 | GRIN2B |
| 5 | 96,600,000 | 96,750,000 | 1289 | 1178 | 0.073485271 | GRIN2B |
| 5 | 96,675,000 | 96,825,000 | 1290 | 1127 | -0.339790293 | GRIN2B |
| 5 | 96,750,000 | 96,900,000 | 1291 | 1101 | -0.113348007 | GRIN2B |
| 5 | 96,825,000 | 96,975,000 | 1292 | 898 | 0.629890273 | |
| 5 | 96,900,000 | 97,050,000 | 1293 | 530 | 0.032924377 | |
| 5 | 96,975,000 | 97,125,000 | 1294 | 609 | 0.028718208 | EMP1 |
| 5 | 97,050,000 | 97,200,000 | 1295 | 575 | 0.093707441 | EMP1 |
| 5 | 97,125,000 | 97,275,000 | 1296 | 566 | -0.397629752 | GSG1,KIAA1467 |
| 5 | 97,200,000 | 97,350,000 | 1297 | 1036 | -0.192691559 | GSG1,HEBP1,KIAA1467 |
| 5 | 97,275,000 | 97,425,000 | 1298 | 1311 | -0.013002164 | GPRC5D,HEBP1,KIAA1467 |
| 5 | 97,350,000 | 97,500,000 | 1299 | 1255 | -0.501419938 | DDX47,GPRC5A,GPRC5D,HEBP1 |
| 5 | 97,425,000 | 97,575,000 | 1300 | 902 | -0.521966102 | APOLD1,DDX47,GPRC5A |
| 5 | 97,500,000 | 97,650,000 | 1301 | 482 | 0.728150502 | APOLD1,CDKN1B,CREBL2,DDX47,GPR19 |
| 5 | 97,575,000 | 97,725,000 | 1302 | 325 | 0.946461082 | CDKN1B,CREBL2,GPR19 |
| 5 | 97,650,000 | 97,800,000 | 1303 | 352 | 0.894034627 | CREBL2,DUSP16 |
| 5 | 97,725,000 | 97,875,000 | 1304 | 352 | 0.856007198 | DUSP16,LOH12CR1 |
| 5 | 97,800,000 | 97,950,000 | 1305 | 390 | 1.072347086 | DUSP16,LOH12CR1,MANSC1,ENSBTAG00000039496 |
| 5 | 97,875,000 | 98,025,000 | 1306 | 494 | 0.796718484 | LOH12CR1,LRP6,MANSC1,ENSBTAG00000039496 |
| 5 | 97,950,000 | 98,100,000 | 1307 | 395 | 0.257787995 | LRP6 |
| 5 | 98,025,000 | 98,175,000 | 1308 | 322 | 0.766488373 | LRP6 |
| 5 | 98,100,000 | 98,250,000 | 1309 | 549 | 0.013466995 | BCL2L14,LRP6 |
| 5 | 98,175,000 | 98,325,000 | 1310 | 647 | 0.355231436 | BCL2L14 |
| 5 | 98,250,000 | 98,400,000 | 1311 | 599 | 0.527517085 | |
| 5 | 98,325,000 | 98,475,000 | 1312 | 651 | 0.54838506 | ETV6 |
| 5 | 98,400,000 | 98,550,000 | 1313 | 709 | 0.752444028 | ETV6 |
| 5 | 98,475,000 | 98,625,000 | 1314 | 611 | 0.159860756 | |
| 5 | 98,550,000 | 98,700,000 | 1315 | 585 | -0.315697009 | |
| 5 | 98,625,000 | 98,775,000 | 1316 | 639 | -1.215762111 | |
| 5 | 98,700,000 | 98,850,000 | 1317 | 1067 | -1.215398032 | |
| 5 | 98,775,000 | 98,925,000 | 1318 | 982 | -0.858593376 | |
| 5 | 98,850,000 | 99,000,000 | 1319 | 642 | 0.498837519 | ENSBTAG00000030476 |
| 5 | 98,925,000 | 99,075,000 | 1320 | 1261 | 0.665513323 | TAS2R42,TAS2R46,ENSBTAG00000001336,ENSBTAG00000030476 |
| 5 | 99,000,000 | 99,150,000 | 1321 | 1753 | 0.433499628 | T2R12,T2R65A,TAS2R42,TAS2R46,ENSBTAG00000001336 |
| 5 | 99,075,000 | 99,225,000 | 1322 | 1501 | -0.915292274 | BOTA-T2R10B,T2R12,T2R65A |
| 5 | 99,150,000 | 99,300,000 | 1323 | 1095 | -2.296381342 | BOTA-T2R10B,T2R10C,TAS2R10 |
| 5 | 99,225,000 | 99,375,000 | 1324 | 1205 | -1.636402533 | CSDA,T2R10C,TAS2R10 |
| 5 | 99,300,000 | 99,450,000 | 1325 | 1589 | -0.569525601 | CSDA,MAGOHB,STYK1 |
| 5 | 99,375,000 | 99,525,000 | 1326 | 1837 | 0.055288079 | KLRA1,MAGOHB,STYK1 |
| 5 | 99,450,000 | 99,600,000 | 1327 | 2091 | 0.514688201 | KLRA1,MAGOHB,ENSBTAG00000046268 |
| 5 | 99,525,000 | 99,675,000 | 1328 | 2233 | 0.958601887 | ENSBTAG00000014332,ENSBTAG00000046268 |
| 5 | 99,600,000 | 99,750,000 | 1329 | 1887 | 0.653664871 | ENSBTAG00000014332,ENSBTAG00000046268 |
| 5 | 99,675,000 | 99,825,000 | 1330 | 1451 | 0.509115434 | KLRC1,NKG2A,ENSBTAG00000014332,ENSBTAG000000033671 |
| 5 | 99,750,000 | 99,900,000 | 1331 | 1450 | 0.442376048 | KLRC1,KLRJ1,NKG2A,ENSBTAG00000033671 |
| 5 | 99,825,000 | 99,975,000 | 1332 | 1517 | 0.632887604 | KLRC1,KLRJ1,NKG2A |
| 5 | 99,900,000 | 100,050,000 | 1333 | 1336 | 0.456370905 | NKG2A,NKG2C,ENSBTAG00000004917 |
| 5 | 99,975,000 | 100,125,000 | 1334 | 1682 | 0.381611757 | KLRD1,NKG2A,NKG2C,ENSBTAG00000000966,ENSBTAG0000004917 |
| 5 | 100,050,000 | 100,200,000 | 1335 | 1901 | 0.645590596 | KLRD1,ENSBTAG00000000966,ENSBTAG00000030426 |
| 5 | 100,125,000 | 100,275,000 | 1336 | 1308 | 0.720501947 | GABARAPL1,OLR1,TMEM52B,ENSBTAG00000030426 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 100,200,000 | 100,350,000 | 1337 | 834 | 0.384968459 | CLEC1A,CLEC1B,CLEC7A,CLEC9A,GABARAPL1,OLR1,TMEM52B |
| 5 | 100,275,000 | 100,425,000 | 1338 | 744 | 0.204695334 | CLEC12A,CLEC12B,CLEC1A,CLEC1B,CLEC7A,CLEC9A |
| 5 | 100,350,000 | 100,500,000 | 1339 | 890 | -0.109384191 | CLEC12A,CLEC12B,CLEC1B,CLEC2A,KLRF2 |
| 5 | 100,425,000 | 100,575,000 | 1340 | 847 | -0.713055338 | CLEC2A,KLRF2,ENSBTAG00000006851 |
| 5 | 100,500,000 | 100,650,000 | 1341 | 767 | -0.290961275 | KLRF2,ENSBTAG00000006851,ENSBTAG00000012026 |
| 5 | 100,575,000 | 100,725,000 | 1342 | 683 | -0.448959843 | KLRF1,ENSBTAG00000006851,ENSBTAG00000012026 |
| 5 | 100,650,000 | 100,800,000 | 1343 | 771 | -1.542908335 | CD69,CLECL1,KLRF1 |
| 5 | 100,725,000 | 100,875,000 | 1344 | 994 | -0.844728401 | CD69,CLECL1 |
| 5 | 100,800,000 | 100,950,000 | 1345 | 849 | -0.056987383 | KLRB1,ENSBTAG00000046324 |
| 5 | 100,875,000 | 101,025,000 | 1346 | 574 | -0.271019697 | KLRB1,ENSBTAG00000046324 |
| 5 | 100,950,000 | 101,100,000 | 1347 | 521 | -2.412025012 | KLRB1 |
| 5 | 101,025,000 | 101,175,000 | 1348 | 646 | -1.82152442 | OVOS2 |
| 5 | 101,100,000 | 101,250,000 | 1349 | 866 | 0.375108593 | OVOS2,ENSBTAG00000038461 |
| 5 | 101,175,000 | 101,325,000 | 1350 | 1022 | 0.76567023 | A2M,OVOS2,ENSBTAG00000038461 |
| 5 | 101,250,000 | 101,400,000 | 1351 | 1033 | 0.659213126 | A2M,ENSBTAG00000038461 |
| 5 | 101,325,000 | 101,475,000 | 1352 | 969 | -0.841988022 | A2M,KLRG1,M6PR,PHC1 |
| 5 | 101,400,000 | 101,550,000 | 1353 | 843 | -1.991959991 | A2ML1,KLRG1,M6PR,PHC1 |
| 5 | 101,475,000 | 101,625,000 | 1354 | 579 | -1.941420427 | A2ML1,RIMKLB |
| 5 | 101,550,000 | 101,700,000 | 1355 | 358 | -1.871506761 | AICDA,MFAP5,RIMKLB |
| 5 | 101,625,000 | 101,775,000 | 1356 | 373 | -1.407136979 | AICDA,APOBEC1,MFAP5,ENSBTAG00000023192 |
| 5 | 101,700,000 | 101,850,000 | 1357 | 420 | -0.46030162 | APOBEC1,DPPA3,ENSBTAG00000023192 |
| 5 | 101,775,000 | 101,925,000 | 1358 | 376 | 0.429028029 | DPPA3,NANOG,SLC2A3 |
| 5 | 101,850,000 | 102,000,000 | 1359 | 332 | 0.536402873 | NANOG,SLC2A3 |
| 5 | 101,925,000 | 102,075,000 | 1360 | 434 | 0.658265003 | C3AR1,FOXJ2,NECAP1 |
| 5 | 102,000,000 | 102,150,000 | 1361 | 566 | 0.567076021 | C3AR1,CLEC4A,CLEC4D,CLEC6A,FOXJ2,NECAP1 |
| 5 | 102,075,000 | 102,225,000 | 1362 | 716 | 0.688075644 | CLEC4A,CLEC4D,CLEC4E,CLEC6A |
| 5 | 102,150,000 | 102,300,000 | 1363 | 573 | 0.784500272 | CD163,CLEC4D,CLEC4E |
| 5 | 102,225,000 | 102,375,000 | 1364 | 726 | 0.840315042 | CD163,ENSBTAG00000039847 |
| 5 | 102,300,000 | 102,450,000 | 1365 | 1178 | 0.54207976 | ENSBTAG00000039817,ENSBTAG00000039847 |
| 5 | 102,375,000 | 102,525,000 | 1366 | 1439 | 0.588646129 | ENSBTAG00000039380,ENSBTAG00000039817 |
| 5 | 102,450,000 | 102,600,000 | 1367 | 2049 | 0.763704858 | ENSBTAG00000039380 |
| 5 | 102,525,000 | 102,675,000 | 1368 | 2083 | 0.589250597 | |
| 5 | 102,600,000 | 102,750,000 | 1369 | 1622 | -0.178874451 | ENSBTAG00000039041 |
| 5 | 102,675,000 | 102,825,000 | 1370 | 1802 | -0.083803504 | ENSBTAG00000039041 |
| 5 | 102,750,000 | 102,900,000 | 1371 | 1862 | 1.066859426 | ENSBTAG00000048175 |
| 5 | 102,825,000 | 102,975,000 | 1372 | 1402 | 0.618748507 | ENSBTAG00000024318,ENSBTAG00000030371,ENSBTAG0000048175 |
| 5 | 102,900,000 | 103,050,000 | 1373 | 1064 | 0.185310071 | ENSBTAG00000024318,ENSBTAG00000030371,ENSBTAG0000045768,ENSBTAG00000048175 |
| 5 | 102,975,000 | 103,125,000 | 1374 | 1058 | 0.088388042 | ENSBTAG00000030371,ENSBTAG00000034678,ENSBTAG0000045768 |
| 5 | 103,050,000 | 103,200,000 | 1375 | 1366 | 0.514122373 | ENSBTAG00000034678,ENSBTAG00000039470,ENSBTAG0000045768 |
| 5 | 103,125,000 | 103,275,000 | 1376 | 1452 | 0.55992464 | ENSBTAG00000039470 |
| 5 | 103,200,000 | 103,350,000 | 1377 | 1572 | 0.517981959 | ENSBTAG00000039256,ENSBTAG00000039470 |
| 5 | 103,275,000 | 103,425,000 | 1378 | 1926 | 0.583098004 | CD163L1,ENSBTAG00000039256 |
| 5 | 103,350,000 | 103,500,000 | 1379 | 1762 | 0.211065771 | CD163L1,ENSBTAG00000024771 |
| 5 | 103,425,000 | 103,575,000 | 1380 | 1305 | -0.076289163 | CD163L1,PEX5,ENSBTAG00000024771 |
| 5 | 103,500,000 | 103,650,000 | 1381 | 1074 | 0.372675806 | C1RL,CLSTN3,PEX5,RBP5 |
| 5 | 103,575,000 | 103,725,000 | 1382 | 1310 | 0.108124135 | C1R,C1RL,CLSTN3,RBP5 |
| 5 | 103,650,000 | 103,800,000 | 1383 | 1227 | -0.217641353 | C1R,C1S |
| 5 | 103,725,000 | 103,875,000 | 1384 | 696 | -0.796147028 | C1R,C1S,LPCAT3,PHB2,PTPN6,ENSBTAG00000013126 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 103,800,000 | 103,950,000 | 1385 | 403 | -0.165157072 | ATN1,C5H12orf57,ENO2,LPCAT3,LRRC23,PHB2,PTPN6,SPS B2,TPI1,USP5,ENSBTAG00000013126 |
| 5 | 103,875,000 | 104,025,000 | 1386 | 356 | -0.234203883 | ATN1,C5H12orf57,CD4,CDCA3,ENO2,GNB3,GPR162,LEPRE L2,LRRC23,SPSB2,TPI1,USP5 |
| 5 | 103,950,000 | 104,100,000 | 1387 | 468 | -0.027205353 | CD4,CDCA3,COPS7A,GNB3,GPR162,LAG3,LEPREL2,MLF2,P TMS,USP5 |
| 5 | 104,025,000 | 104,175,000 | 1388 | 482 | 0.337640839 | ACRBP,C5H12ORF53,COPS7A,ING4,LAG3,LPAR5,MLF2,PT MS,ZNF384 |
| 5 | 104,100,000 | 104,250,000 | 1389 | 494 | 0.232431888 | ACRBP,C5H12ORF53,CHD4,GAPDH,IFFO1,ING4,LPAR5,NC APD2,NOP2,ZNF384 |
| 5 | 104,175,000 | 104,325,000 | 1390 | 522 | 0.154584539 | CD27,CHD4,GAPDH,IFFO1,MRPL51,NCAPD2,NOP2,TAPBP L,VAMP1 |
| 5 | 104,250,000 | 104,400,000 | 1391 | 405 | 0.426573533 | CD27,LTBR,MRPL51,NCAPD2,SCNN1A,TAPBPL,VAMP1 |
| 5 | 104,325,000 | 104,475,000 | 1392 | 533 | 0.491815144 | LTBR,PLEKHG6,SCNN1A,TNFRSF1A |
| 5 | 104,400,000 | 104,550,000 | 1393 | 789 | 0.534355539 | CD9,PLEKHG6,TNFRSF1A |
| 5 | 104,475,000 | 104,625,000 | 1394 | 729 | 0.982256211 | CD9,VWF |
| 5 | 104,550,000 | 104,700,000 | 1395 | 775 | -0.196695746 | VWF |
| 5 | 104,625,000 | 104,775,000 | 1396 | 920 | -0.532684637 | ANO2,VWF,ENSBTAG00000011758 |
| 5 | 104,700,000 | 104,850,000 | 1397 | 937 | -0.393686452 | ANO2,VWF,ENSBTAG00000011758 |
| 5 | 104,775,000 | 104,925,000 | 1398 | 808 | -0.303180366 | ANO2 |
| 5 | 104,850,000 | 105,000,000 | 1399 | 532 | 0.390749298 | ANO2 |
| 5 | 104,925,000 | 105,075,000 | 1400 | 798 | 0.805643724 | ANO2 |
| 5 | 105,000,000 | 105,150,000 | 1401 | 1231 | 0.748963387 | ANO2,NTF3 |
| 5 | 105,075,000 | 105,225,000 | 1402 | 1309 | 0.764562289 | ANO2,NTF3 |
| 5 | 105,150,000 | 105,300,000 | 1403 | 1405 | 0.915559115 | NTF3 |
| 5 | 105,225,000 | 105,375,000 | 1404 | 1535 | 0.356908067 | |
| 5 | 105,300,000 | 105,450,000 | 1405 | 1537 | 0.123005723 | |
| 5 | 105,375,000 | 105,525,000 | 1406 | 1655 | -0.008980948 | |
| 5 | 105,450,000 | 105,600,000 | 1407 | 2143 | 0.346837519 | KCNA5,ENSBTAG00000026522 |
| 5 | 105,525,000 | 105,675,000 | 1408 | 2356 | 0.98741239 | KCNA1,KCNA5,ENSBTAG00000026522 |
| 5 | 105,600,000 | 105,750,000 | 1409 | 2307 | 1.239249885 | KCNA1 |
| 5 | 105,675,000 | 105,825,000 | 1410 | 2053 | 1.262993439 | GALNT8,KCNA6 |
| 5 | 105,750,000 | 105,900,000 | 1411 | 1269 | 1.239309359 | AKAP3,GALNT8,KCNA6,NDUFA9 |
| 5 | 105,825,000 | 105,975,000 | 1412 | 834 | 1.103046642 | AKAP3,DYRK4,GALNT8,NDUFA9 |
| 5 | 105,900,000 | 106,050,000 | 1413 | 594 | 1.183061686 | AKAP3,C5H12ORF4,DYRK4,RAD51AP1 |
| 5 | 105,975,000 | 106,125,000 | 1414 | 162 | 1.21862561 | C5H12ORF4,DYRK4,RAD51AP1 |
| 5 | 106,050,000 | 106,200,000 | 1415 | 750 | 0.774754457 | C5H12ORF4,FGF6,RAD51AP1 |
| 5 | 106,125,000 | 106,275,000 | 1416 | 1153 | 0.67237336 | C5H12ORF4,CCND2,FGF23,FGF6,TIGAR |
| 5 | 106,200,000 | 106,350,000 | 1417 | 740 | 0.700924222 | CCND2,FGF23,TIGAR |
| 5 | 106,275,000 | 106,425,000 | 1418 | 705 | 1.1155514 | CCND2 |
| 5 | 106,350,000 | 106,500,000 | 1419 | 785 | 1.043016115 | |
| 5 | 106,425,000 | 106,575,000 | 1420 | 1035 | 0.472217249 | |
| 5 | 106,500,000 | 106,650,000 | 1421 | 1078 | 0.545950042 | PARP11 |
| 5 | 106,575,000 | 106,725,000 | 1422 | 1110 | -0.130783627 | CRACR2A,PARP11 |
| 5 | 106,650,000 | 106,800,000 | 1423 | 975 | -0.842660874 | CRACR2A |
| 5 | 106,725,000 | 106,875,000 | 1424 | 557 | 0.001843018 | CRACR2A,PRMT8 |
| 5 | 106,800,000 | 106,950,000 | 1425 | 581 | -0.929298106 | PRMT8 |
| 5 | 106,875,000 | 107,025,000 | 1426 | 719 | -1.206488739 | TSPAN11 |
| 5 | 106,950,000 | 107,100,000 | 1427 | 837 | -0.151853359 | TSPAN11,TSPAN9 |
| 5 | 107,025,000 | 107,175,000 | 1428 | 956 | 0.109556793 | TSPAN11,TSPAN9 |
| 5 | 107,100,000 | 107,250,000 | 1429 | 897 | 0.301476715 | |
| 5 | 107,175,000 | 107,325,000 | 1430 | 726 | 0.655023679 | TEAD4 |
| 5 | 107,250,000 | 107,400,000 | 1431 | 650 | 0.596013196 | FOXM1,RHNO1,TEAD4,TULP3,ENSBTAG00000030325 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 107,325,000 | 107,475,000 | 1432 | 986 | 0.680403039 | DDX11,FKBP4,FOX M1,ITFG2,NRIP2,RHNO1,TEAD4,TULP3,ENSBTAG00000030325 |
| 5 | 107,400,000 | 107,550,000 | 1433 | 942 | 0.638578768 | DDX11,FKBP4,IQSEC3,ITFG2,NRIP2,WASH1,ENSBTAG00000030325 |
| 5 | 107,475,000 | 107,625,000 | 1434 | 778 | 0.565511109 | DDX11,IQSEC3,WASH1 |
| 5 | 107,550,000 | 107,700,000 | 1435 | 833 | 0.074347108 | IQSEC3,SLC6A12,SLC6A13 |
| 5 | 107,625,000 | 107,775,000 | 1436 | 523 | 0.257174421 | IQSEC3,KDM5A,SLC6A12,SLC6A13,ENSBTAG00000023274 |
| 5 | 107,700,000 | 107,850,000 | 1437 | 378 | 0.970177715 | CCDC77,KDM5A,SLC6A13,ENSBTAG00000023274 |
| 5 | 107,775,000 | 107,925,000 | 1438 | 449 | 0.226348489 | B4GALNT3,CCDC77,KDM5A |
| 5 | 107,850,000 | 108,000,000 | 1439 | 958 | 0.309445287 | B4GALNT3,NINJ2 |
| 5 | 107,925,000 | 108,075,000 | 1440 | 861 | 0.47663563 | B4GALNT3,NINJ2 |
| 5 | 108,000,000 | 108,150,000 | 1441 | 302 | -0.008112054 | NINJ2,WNK1,ENSBTAG00000024477 |
| 5 | 108,075,000 | 108,225,000 | 1442 | 323 | 0.516500824 | RAD52,WNK1,ENSBTAG00000024477 |
| 5 | 108,150,000 | 108,300,000 | 1443 | 453 | 1.016979605 | RAD52,WNK1 |
| 5 | 108,225,000 | 108,375,000 | 1444 | 503 | 0.314736692 | ERC1,RAD52 |
| 5 | 108,300,000 | 108,450,000 | 1445 | 445 | -0.237489331 | ERC1 |
| 5 | 108,375,000 | 108,525,000 | 1446 | 440 | -0.723831218 | ERC1 |
| 5 | 108,450,000 | 108,600,000 | 1447 | 603 | -0.564061751 | ERC1 |
| 5 | 108,525,000 | 108,675,000 | 1448 | 627 | 0.605941754 | ERC1,FBXL14,WNT5B |
| 5 | 108,600,000 | 108,750,000 | 1449 | 512 | 0.304333315 | ADIPOR2,CACNA2D4,FBXL14,WNT5B |
| 5 | 108,675,000 | 108,825,000 | 1450 | 471 | 0.272121868 | ADIPOR2,CACNA2D4,DCP1B,LRTM2 |
| 5 | 108,750,000 | 108,900,000 | 1451 | 293 | 1.338595884 | CACNA2D4,DCP1B,LRTM2 |
| 5 | 108,825,000 | 108,975,000 | 1452 | 331 | 1.146464574 | DCP1B |
| 5 | 108,900,000 | 109,050,000 | 1453 | 401 | -0.326548869 | |
| 5 | 108,975,000 | 109,125,000 | 1454 | 406 | -3.03950777 | |
| 5 | 109,050,000 | 109,200,000 | 1455 | 719 | -2.252993652 | CACNA1C |
| 5 | 109,125,000 | 109,275,000 | 1456 | 1042 | -0.149113673 | CACNA1C |
| 5 | 109,200,000 | 109,350,000 | 1457 | 915 | 0.781751328 | CACNA1C |
| 5 | 109,275,000 | 109,425,000 | 1458 | 644 | -0.009183558 | CACNA1C,CECR5,IL17RA |
| 5 | 109,350,000 | 109,500,000 | 1459 | 488 | -0.336038808 | CACNA1C,CECR1,CECR5,IL17RA |
| 5 | 109,425,000 | 109,575,000 | 1460 | 441 | 1.063108396 | ATP6V1E1,CECR1,CECR2,CECR5 |
| 5 | 109,500,000 | 109,650,000 | 1461 | 428 | 0.926946119 | ATP6V1E1,BCL2L13,BID2,CECR2 |
| 5 | 109,575,000 | 109,725,000 | 1462 | 347 | -0.223008169 | ATP6V1E1,BCL2L13,BID2,MICAL3 |
| 5 | 109,650,000 | 109,800,000 | 1463 | 282 | -2.492887436 | BID2,MICAL3 |
| 5 | 109,725,000 | 109,875,000 | 1464 | 316 | -1.432480841 | MICAL3,PEX26 |
| 5 | 109,800,000 | 109,950,000 | 1465 | 546 | 0.547006518 | CDC42EP1,LGALS3,PEX26,TUBA8 |
| 5 | 109,875,000 | 110,025,000 | 1466 | 540 | 0.527841992 | CDC42EP1,GGA1,LGALS1,LGALS3,NOL12,PDXP,SH3BP1,TUBA8 |
| 5 | 109,950,000 | 110,100,000 | 1467 | 458 | 0.833633353 | GGA1,LGALS1,NOL12,PDXP,SH3BP1,TRIOBP |
| 5 | 110,025,000 | 110,175,000 | 1468 | 549 | 0.075569475 | ANKRD54,EIF3L,GALR3,GCAT,H1F0,NOL12,TRIOBP |
| 5 | 110,100,000 | 110,250,000 | 1469 | 514 | -0.952943293 | ANKRD54,C22orf23,EIF3L,GALR3,GCAT,H1F0,MICAL1,POLR2F |
| 5 | 110,175,000 | 110,325,000 | 1470 | 347 | -0.370087697 | C22orf23,EIF3L,MICAL1,POLR2F,SOX10 |
| 5 | 110,250,000 | 110,400,000 | 1471 | 334 | 0.669223982 | BAIAP2L2,POLR2F,PRKCABP,SLC16A8,SOX10 |
| 5 | 110,325,000 | 110,475,000 | 1472 | 342 | 0.906273871 | BAIAP2L2,PLA2G6,PRKCABP,SLC16A8 |
| 5 | 110,400,000 | 110,550,000 | 1473 | 225 | 0.608536385 | BAIAP2L2,MAFF,PLA2G6,TMEM184B |
| 5 | 110,475,000 | 110,625,000 | 1474 | 333 | -0.137404108 | CSNK1E,MAFF,TMEM184B |
| 5 | 110,550,000 | 110,700,000 | 1475 | 488 | -2.202309851 | CSNK1E,DDX17,KDELR3 |
| 5 | 110,625,000 | 110,775,000 | 1476 | 474 | -2.563553135 | DDX17,DMC1,FAM227A,KDELR3 |
| 5 | 110,700,000 | 110,850,000 | 1477 | 591 | -0.867625129 | CBY1,DMC1,FAM227A,GTPBP1,JOSD1,TOMM22 |
| 5 | 110,775,000 | 110,925,000 | 1478 | 657 | -0.429264873 | CBY1,DNAL4,FAM227A,GTPBP1,JOSD1,TOMM22,UNC84B |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 110,850,000 | 111,000,000 | 1479 | 433 | 0.03594692 | CBX6,DNAL4,GTPBP1,NPTXR,UNC84B |
| 5 | 110,925,000 | 111,075,000 | 1480 | 628 | 0.529144023 | APOBEC3A,APOBEC3Z3,CBX6,NPTXR |
| 5 | 111,000,000 | 111,150,000 | 1481 | 767 | 0.362082967 | APOBEC3A,APOBEC3Z3,CBX7 |
| 5 | 111,075,000 | 111,225,000 | 1482 | 402 | -0.090860574 | APOBEC3Z3,CBX7,PDGFB |
| 5 | 111,150,000 | 111,300,000 | 1483 | 345 | 0.636188705 | PDGFB,RPL3,SYNGR1 |
| 5 | 111,225,000 | 111,375,000 | 1484 | 640 | 0.948205859 | MAP3K7IP1,RPL3,SYNGR1 |
| 5 | 111,300,000 | 111,450,000 | 1485 | 620 | 1.22762965 | MAP3K7IP1,MGAT3,MIEF1,SYNGR1 |
| 5 | 111,375,000 | 111,525,000 | 1486 | 353 | 1.007073715 | ATF4,CACNA1I,MGAT3,MIEF1,RPS19BP1 |
| 5 | 111,450,000 | 111,600,000 | 1487 | 386 | -0.391093091 | ATF4,CACNA1I,MIEF1,RPS19BP1 |
| 5 | 111,525,000 | 111,675,000 | 1488 | 569 | -0.241686029 | CACNA1I,ENTHD1 |
| 5 | 111,600,000 | 111,750,000 | 1489 | 500 | 0.219608306 | CACNA1I,ENTHD1 |
| 5 | 111,675,000 | 111,825,000 | 1490 | 310 | 0.564729962 | ENTHD1,GRAP2 |
| 5 | 111,750,000 | 111,900,000 | 1491 | 354 | 1.016113611 | ENTHD1,FAM83F,GRAP2 |
| 5 | 111,825,000 | 111,975,000 | 1492 | 392 | 1.053543976 | FAM83F,GRAP2 |
| 5 | 111,900,000 | 112,050,000 | 1493 | 315 | 0.927052876 | TNRC6B |
| 5 | 111,975,000 | 112,125,000 | 1494 | 282 | 0.614764719 | TNRC6B |
| 5 | 112,050,000 | 112,200,000 | 1495 | 279 | 0.561395789 | ADSL,TNRC6B |
| 5 | 112,125,000 | 112,275,000 | 1496 | 319 | 0.339431252 | ADSL,MKL1,SGSM3,TNRC6B |
| 5 | 112,200,000 | 112,350,000 | 1497 | 432 | 0.186150259 | ADSL,MKL1,SGSM3 |
| 5 | 112,275,000 | 112,425,000 | 1498 | 485 | 0.448975848 | MKL1 |
| 5 | 112,350,000 | 112,500,000 | 1499 | 465 | -0.378374832 | MKL1 |
| 5 | 112,425,000 | 112,575,000 | 1500 | 403 | -1.068904345 | MCHR1,SLC25A17 |
| 5 | 112,500,000 | 112,650,000 | 1501 | 380 | -0.495769227 | DNAJB7,MCHR1,SLC25A17,ST13,XPNPEP3 |
| 5 | 112,575,000 | 112,725,000 | 1502 | 544 | -0.389436905 | DNAJB7,RBX1,SLC25A17,ST13,XPNPEP3 |
| 5 | 112,650,000 | 112,800,000 | 1503 | 613 | 0.158879408 | RBX1,XPNPEP3 |
| 5 | 112,725,000 | 112,875,000 | 1504 | 484 | -0.559823175 | EP300 |
| 5 | 112,800,000 | 112,950,000 | 1505 | 390 | -1.142667346 | CHADL,EP300,L3MBTL2,RANGAP1 |
| 5 | 112,875,000 | 113,025,000 | 1506 | 304 | 0.493223094 | CHADL,L3MBTL2,RANGAP1,ZC3H7B |
| 5 | 112,950,000 | 113,100,000 | 1507 | 206 | 0.357923395 | ACO2,PHF5A,TEF,TOB2,ZC3H7B |
| 5 | 113,025,000 | 113,175,000 | 1508 | 346 | 0.421161392 | ACO2,CSDC2,PHF5A,PMM1,POLR3H,TEF,TOB2 |
| 5 | 113,100,000 | 113,250,000 | 1509 | 420 | 0.605514896 | ACO2,CSDC2,DESI1,PMM1,POLR3H,XRCC6 |
| 5 | 113,175,000 | 113,325,000 | 1510 | 474 | -0.786045904 | C22orf46,DESI1,MEI1,NHP2L1,PMM1,XRCC6,ENSBTAG000046927 |
| 5 | 113,250,000 | 113,400,000 | 1511 | 386 | -1.364180582 | C22orf46,CCDC134,MEI1,NHP2L1,SREBF2,XRCC6,ENSBTAG00000046927 |
| 5 | 113,325,000 | 113,475,000 | 1512 | 316 | -0.480501915 | CCDC134,CENPM,MEI1,SREBF2,TNFRSF13C |
| 5 | 113,400,000 | 113,550,000 | 1513 | 507 | 0.178287443 | CENPM,SEPT3,SREBF2,TNFRSF13C,WBP2NL |
| 5 | 113,475,000 | 113,625,000 | 1514 | 545 | 0.542668335 | FAM109B,MGC127055,MGC152344,NAGA,NDUFA6,SEPT3,SMDT1,WBP2NL,ENSBTAG00000026502,ENSBTAG00000037632 |
| 5 | 113,550,000 | 113,700,000 | 1515 | 696 | 0.110003957 | FAM109B,MGC127055,MGC152344,NAGA,NDUFA6,SMDT1,TCF20,ENSBTAG00000026502,ENSBTAG00000037632 |
| 5 | 113,625,000 | 113,775,000 | 1516 | 621 | -0.37883413 | MGC127055,TCF20 |
| 5 | 113,700,000 | 113,850,000 | 1517 | 464 | 0.064458199 | NFAM1,ENSBTAG00000046721 |
| 5 | 113,775,000 | 113,925,000 | 1518 | 653 | 0.706529591 | NFAM1,ENSBTAG00000046721 |
| 5 | 113,850,000 | 114,000,000 | 1519 | 822 | 0.731258313 | NFAM1,POLDIP3,RRP7A,SERHL2 |
| 5 | 113,925,000 | 114,075,000 | 1520 | 692 | -0.575299898 | A4GALT,CYB5R3,POLDIP3,RRP7A,SERHL2 |
| 5 | 114,000,000 | 114,150,000 | 1521 | 445 | -1.393184863 | A4GALT,CYB5R3,POLDIP3,ENSBTAG00000030199 |
| 5 | 114,075,000 | 114,225,000 | 1522 | 173 | 1.146276699 | ENSBTAG00000030199 |
| 5 | 114,150,000 | 114,300,000 | 1523 | 452 | 1.103101472 | ARFGAP3 |
| 5 | 114,225,000 | 114,375,000 | 1524 | 1159 | 1.176198511 | ARFGAP3,PACSIN2 |
| 5 | 114,300,000 | 114,450,000 | 1525 | 1329 | 0.98608924 | ARFGAP3,PACSIN2 |
| 5 | 114,375,000 | 114,525,000 | 1526 | 1512 | 0.707210082 | PACSIN2,TLL1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 114,450,000 | 114,600,000 | 1527 | 1272 | 0.489746574 | MCAT,PACSIN2,TSPO,TLL1 |
| 5 | 114,525,000 | 114,675,000 | 1528 | 742 | -0.518128547 | MCAT,SCUBE1,TSPO,TLL1,TLL12 |
| 5 | 114,600,000 | 114,750,000 | 1529 | 740 | -0.423793037 | SCUBE1,TSPO,TLL12 |
| 5 | 114,675,000 | 114,825,000 | 1530 | 797 | -0.534589281 | SCUBE1 |
| 5 | 114,750,000 | 114,900,000 | 1531 | 800 | -2.022426006 | SCUBE1 |
| 5 | 114,825,000 | 114,975,000 | 1532 | 1112 | -1.169519387 | SAMM50,ENSBTAG00000003367 |
| 5 | 114,900,000 | 115,050,000 | 1533 | 1178 | 0.063255596 | SAMM50,ENSBTAG00000003367,ENSBTAG00000045746 |
| 5 | 114,975,000 | 115,125,000 | 1534 | 937 | 0.575335626 | PNPLA5,SULT4A1,ENSBTAG00000003367,ENSBTAG00000045746 |
| 5 | 115,050,000 | 115,200,000 | 1535 | 1009 | 0.674578242 | EFCAB6,PNPLA5,SULT4A1,ENSBTAG00000045746 |
| 5 | 115,125,000 | 115,275,000 | 1536 | 991 | 0.71914173 | EFCAB6 |
| 5 | 115,200,000 | 115,350,000 | 1537 | 982 | -0.105230854 | EFCAB6 |
| 5 | 115,275,000 | 115,425,000 | 1538 | 722 | -0.59403482 | EFCAB6 |
| 5 | 115,350,000 | 115,500,000 | 1539 | 802 | -0.442988196 | EFCAB6 |
| 5 | 115,425,000 | 115,575,000 | 1540 | 1539 | -0.51657662 | PARVB |
| 5 | 115,500,000 | 115,650,000 | 1541 | 1622 | -0.022068337 | MGC148449,PARVB |
| 5 | 115,575,000 | 115,725,000 | 1542 | 926 | 0.299455453 | KIAA1644,MGC148449 |
| 5 | 115,650,000 | 115,800,000 | 1543 | 833 | 0.52865297 | KIAA1644 |
| 5 | 115,725,000 | 115,875,000 | 1544 | 1150 | 0.786745183 | LDOC1L |
| 5 | 115,800,000 | 115,950,000 | 1545 | 1108 | 0.430558576 | LDOC1L |
| 5 | 115,875,000 | 116,025,000 | 1546 | 947 | 0.02961775 | PRR5 |
| 5 | 115,950,000 | 116,100,000 | 1547 | 871 | -0.550510731 | PRR5,ENSBTAG00000008858 |
| 5 | 116,025,000 | 116,175,000 | 1548 | 1140 | 0.464920723 | PHF21B,PRR5,ENSBTAG00000008858 |
| 5 | 116,100,000 | 116,250,000 | 1549 | 1385 | 1.085732981 | PHF21B,ENSBTAG00000008858 |
| 5 | 116,175,000 | 116,325,000 | 1550 | 1299 | 1.06129921 | NUP50 |
| 5 | 116,250,000 | 116,400,000 | 1551 | 873 | 0.60111257 | KIAA0930,NUP50 |
| 5 | 116,325,000 | 116,475,000 | 1552 | 719 | -0.798949534 | FAM118A,KIAA0930,NUP50,SMC1B,UPK3A |
| 5 | 116,400,000 | 116,550,000 | 1553 | 595 | -0.948423031 | FAM118A,RIBC2,SMC1B,UPK3A |
| 5 | 116,475,000 | 116,625,000 | 1554 | 803 | 0.444092472 | FBLN1,RIBC2,SMC1B |
| 5 | 116,550,000 | 116,700,000 | 1555 | 1293 | 0.250510523 | FBLN1,RIBC2 |
| 5 | 116,625,000 | 116,775,000 | 1556 | 1278 | 0.219804203 | ATXN10,FBLN1 |
| 5 | 116,700,000 | 116,850,000 | 1557 | 953 | 0.715661908 | ATXN10 |
| 5 | 116,775,000 | 116,925,000 | 1558 | 794 | 0.735122164 | ATXN10 |
| 5 | 116,850,000 | 117,000,000 | 1559 | 663 | 0.650945796 | ATXN10,WNT7B |
| 5 | 116,925,000 | 117,075,000 | 1560 | 418 | 0.28713934 | WNT7B |
| 5 | 117,000,000 | 117,150,000 | 1561 | 505 | -0.458664739 | |
| 5 | 117,075,000 | 117,225,000 | 1562 | 756 | 0.122486116 | PPARA |
| 5 | 117,150,000 | 117,300,000 | 1563 | 1216 | 0.189250012 | CDPF1,PPARA |
| 5 | 117,225,000 | 117,375,000 | 1564 | 2148 | 0.106943659 | CDPF1,PPARA |
| 5 | 117,300,000 | 117,450,000 | 1565 | 3064 | 0.36488218 | |
| 5 | 117,375,000 | 117,525,000 | 1566 | 2568 | 0.046399177 | |
| 5 | 117,450,000 | 117,600,000 | 1567 | 1195 | -1.200325984 | |
| 5 | 117,525,000 | 117,675,000 | 1568 | 816 | -0.664426737 | TTC38 |
| 5 | 117,600,000 | 117,750,000 | 1569 | 867 | -0.073831145 | GTSE1,PKDREJ,TRMU,TTC38 |
| 5 | 117,675,000 | 117,825,000 | 1570 | 793 | 0.031215751 | CELSR1,GTSE1,PKDREJ,TRMU |
| 5 | 117,750,000 | 117,900,000 | 1571 | 1225 | 0.720354285 | CELSR1,TRMU |
| 5 | 117,825,000 | 117,975,000 | 1572 | 1110 | 0.881950074 | CELSR1 |
| 5 | 117,900,000 | 118,050,000 | 1573 | 672 | 0.429724334 | CERK,GRAMD4 |
| 5 | 117,975,000 | 118,125,000 | 1574 | 845 | 0.432581718 | CERK,GRAMD4,TBC1D22A |
| 5 | 118,050,000 | 118,200,000 | 1575 | 1054 | 0.683262034 | TBC1D22A |
| 5 | 118,125,000 | 118,275,000 | 1576 | 977 | 0.621574604 | TBC1D22A |
| 5 | 118,200,000 | 118,350,000 | 1577 | 1141 | 0.454708764 | TBC1D22A |
| 5 | 118,275,000 | 118,425,000 | 1578 | 1420 | -0.187187488 | TBC1D22A |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 118,350,000 | 118,500,000 | 1579 | 1339 | -0.167894836 | |
| 5 | 118,425,000 | 118,575,000 | 1580 | 1094 | 0.321143619 | |
| 5 | 118,500,000 | 118,650,000 | 1581 | 1056 | 0.158828955 | |
| 5 | 118,575,000 | 118,725,000 | 1582 | 1472 | 0.383418118 | |
| 5 | 118,650,000 | 118,800,000 | 1583 | 2046 | 0.581381137 | |
| 5 | 118,725,000 | 118,875,000 | 1584 | 2019 | 0.270617632 | |
| 5 | 118,800,000 | 118,950,000 | 1585 | 1434 | -0.760608053 | |
| 5 | 118,875,000 | 119,025,000 | 1586 | 1127 | -0.300737038 | |
| 5 | 118,950,000 | 119,100,000 | 1587 | 1059 | -1.769602267 | |
| 5 | 119,025,000 | 119,175,000 | 1588 | 1526 | -1.382366073 | |
| 5 | 119,100,000 | 119,250,000 | 1589 | 1681 | 0.360768825 | |
| 5 | 119,175,000 | 119,325,000 | 1590 | 1149 | 0.232570969 | |
| 5 | 119,250,000 | 119,400,000 | 1591 | 855 | -0.484119244 | |
| 5 | 119,325,000 | 119,475,000 | 1592 | 906 | 0.07212655 | FAM19A5 |
| 5 | 119,400,000 | 119,550,000 | 1593 | 969 | 0.455769849 | FAM19A5 |
| 5 | 119,475,000 | 119,625,000 | 1594 | 784 | 0.094445557 | FAM19A5 |
| 5 | 119,550,000 | 119,700,000 | 1595 | 1100 | 0.162890593 | FAM19A5,ENSBTAG00000026385,ENSBTAG00000030185 |
| 5 | 119,625,000 | 119,775,000 | 1596 | 1580 | 0.448675865 | SELO,ENSBTAG00000026385,ENSBTAG00000030185 |
| 5 | 119,700,000 | 119,850,000 | 1597 | 1196 | 0.592014895 | HDAC10,MAPK11,MAPK12,PLXNB2,SELO,TUBGCP6 |
| 5 | 119,775,000 | 119,925,000 | 1598 | 747 | 1.01264221 | DENND6B,HDAC10,MAPK11,MAPK12,PLXNB2,SELO,TUBGCP6 |
| 5 | 119,850,000 | 120,000,000 | 1599 | 689 | 0.743733597 | ADM2,DENND6B,PLXNB2,PPP6R2,SBF1 |
| 5 | 119,925,000 | 120,075,000 | 1600 | 526 | 0.786686054 | ADM2,KLHDC7B,LMF2,MGC128071,MIOX,NCAPH2,PPP6R2,SBF1,SCO2,SYCE3,ENSBTAG00000046250 |
| 5 | 120,000,000 | 120,150,000 | 1601 | 510 | 0.727504932 | CHKB,CPT1B,KLHDC7B,LMF2,MAPK8IP2,MGC128071,MIOX,NCAPH2,PPP6R2,SCO2,SYCE3,ENSBTAG00000046250 |
| 5 | 120,075,000 | 120,225,000 | 1602 | 506 | 0.660271509 | ACR,ARSA,CHKB,CPT1B,MAPK8IP2,SYCE3,ENSBTAG00000030180 |
| 5 | 120,150,000 | 120,300,000 | 1603 | 588 | 0.753619583 | ACR,ARSA,RABL2B,ENSBTAG00000030180 |
| 5 | 120,225,000 | 120,375,000 | 1604 | 1312 | 0.928124304 | ACR,RABL2B |
| 5 | 120,300,000 | 120,450,000 | 1605 | 1519 | 0.618868243 | |
| 5 | 120,375,000 | 120,525,000 | 1606 | 1133 | 0.331089903 | |
| 5 | 120,450,000 | 120,600,000 | 1607 | 1289 | 0.862147034 | |
| 5 | 120,525,000 | 120,675,000 | 1608 | 1350 | 0.767694726 | |
| 5 | 120,600,000 | 120,750,000 | 1609 | 1529 | 0.414908232 | |
| 5 | 120,675,000 | 120,825,000 | 1610 | 1627 | 0.25801377 | ENSBTAG00000014987 |
| 5 | 120,750,000 | 120,900,000 | 1611 | 1127 | 0.280418424 | BRD1,ENSBTAG00000014987 |
| 5 | 120,825,000 | 120,975,000 | 1612 | 901 | 0.241883761 | ALG12,BRD1,CRELD2,PIM3 |
| 5 | 120,900,000 | 121,050,000 | 1613 | 915 | 0.231442216 | ALG12,CRELD2,IL17REL,PIM3,TTLL8 |
| 5 | 120,975,000 | 121,125,000 | 1614 | 1009 | 0.630734104 | IL17REL,MLC1,MOV10L1,TTLL8 |
| 5 | 121,050,000 | 121,191,424 | 1615 | 827 | 0.708287346 | MLC1,MOV10L1,PANX2,TRABD,TTLL8,ENSBTAG00000047080 |
| 6 | 0 | 150,000 | 1 | 262 | -3.225759298 | ENSBTAG00000040324 |
| 6 | 75,000 | 225,000 | 2 | 472 | -2.573607465 | |
| 6 | 150,000 | 300,000 | 3 | 589 | -2.082380427 | |
| 6 | 225,000 | 375,000 | 4 | 505 | -1.318238683 | |
| 6 | 300,000 | 450,000 | 5 | 637 | -2.785531181 | |
| 6 | 375,000 | 525,000 | 6 | 910 | -2.744834575 | |
| 6 | 450,000 | 600,000 | 7 | 1036 | -2.200051964 | |
| 6 | 525,000 | 675,000 | 8 | 1190 | -2.132229019 | |
| 6 | 600,000 | 750,000 | 9 | 1063 | -1.702411093 | |
| 6 | 675,000 | 825,000 | 10 | 774 | -1.313385804 | |
| 6 | 750,000 | 900,000 | 11 | 1067 | -1.45021111 | |

| | | | | | | | |
|---|-----------|-----------|----|------|--------------|--------------------|--------|
| 6 | 825,000 | 975,000 | 12 | 1201 | -1.164107818 | | |
| 6 | 900,000 | 1,050,000 | 13 | 991 | -0.7190058 | | |
| 6 | 975,000 | 1,125,000 | 14 | 1143 | -1.077175604 | | |
| 6 | 1,050,000 | 1,200,000 | 15 | 1300 | -1.783616088 | | |
| 6 | 1,125,000 | 1,275,000 | 16 | 1131 | -2.242247495 | | |
| 6 | 1,200,000 | 1,350,000 | 17 | 913 | -0.711840023 | | |
| 6 | 1,275,000 | 1,425,000 | 18 | 894 | 0.294508925 | | |
| 6 | 1,350,000 | 1,500,000 | 19 | 817 | -0.570781149 | | |
| 6 | 1,425,000 | 1,575,000 | 20 | 712 | -0.982201341 | | |
| 6 | 1,500,000 | 1,650,000 | 21 | 809 | -0.058724663 | | |
| 6 | 1,575,000 | 1,725,000 | 22 | 879 | -0.407628141 | | |
| 6 | 1,650,000 | 1,800,000 | 23 | 1165 | -1.957146717 | | |
| 6 | 1,725,000 | 1,875,000 | 24 | 882 | -1.898438711 | | |
| 6 | 1,800,000 | 1,950,000 | 25 | 628 | -0.621167621 | | 01-Mar |
| 6 | 1,875,000 | 2,025,000 | 26 | 785 | -0.55328742 | | 01-Mar |
| 6 | 1,950,000 | 2,100,000 | 27 | 673 | 0.120015171 | MARCH1,TMA16 | |
| 6 | 2,025,000 | 2,175,000 | 28 | 586 | 0.020326828 | MARCH1,TKTL2,TMA16 | |
| 6 | 2,100,000 | 2,250,000 | 29 | 795 | 0.620076116 | TKTL2,TMA16 | |
| 6 | 2,175,000 | 2,325,000 | 30 | 1294 | 0.765895752 | | |
| 6 | 2,250,000 | 2,400,000 | 31 | 1489 | 0.878686088 | NPY5R | |
| 6 | 2,325,000 | 2,475,000 | 32 | 1300 | 0.937497656 | NPY1R,NPY5R | |
| 6 | 2,400,000 | 2,550,000 | 33 | 1085 | 0.840103148 | NPY1R | |
| 6 | 2,475,000 | 2,625,000 | 34 | 1071 | 0.36207624 | NAF1 | |
| 6 | 2,550,000 | 2,700,000 | 35 | 1160 | 0.068551129 | NAF1 | |
| 6 | 2,625,000 | 2,775,000 | 36 | 1394 | 0.010380369 | NAF1 | |
| 6 | 2,700,000 | 2,850,000 | 37 | 1352 | -0.197868658 | | |
| 6 | 2,775,000 | 2,925,000 | 38 | 1133 | 0.147546656 | | |
| 6 | 2,850,000 | 3,000,000 | 39 | 1220 | 0.50102167 | | |
| 6 | 2,925,000 | 3,075,000 | 40 | 1384 | 0.461675486 | | |
| 6 | 3,000,000 | 3,150,000 | 41 | 1518 | 0.791599304 | | |
| 6 | 3,075,000 | 3,225,000 | 42 | 1547 | 0.872761736 | | |
| 6 | 3,150,000 | 3,300,000 | 43 | 1067 | 0.707297702 | | |
| 6 | 3,225,000 | 3,375,000 | 44 | 659 | 0.580786165 | | |
| 6 | 3,300,000 | 3,450,000 | 45 | 705 | 0.212843669 | BBS7,CCNA2,EXOSC9 | |
| 6 | 3,375,000 | 3,525,000 | 46 | 1138 | -0.00228188 | BBS7,CCNA2,EXOSC9 | |
| 6 | 3,450,000 | 3,600,000 | 47 | 1542 | -0.416718274 | ANXA5 | |
| 6 | 3,525,000 | 3,675,000 | 48 | 1496 | -0.449019864 | ANXA5 | |
| 6 | 3,600,000 | 3,750,000 | 49 | 1290 | 0.415444092 | | |
| 6 | 3,675,000 | 3,825,000 | 50 | 993 | 0.731716829 | | |
| 6 | 3,750,000 | 3,900,000 | 51 | 971 | 0.881036296 | | |
| 6 | 3,825,000 | 3,975,000 | 52 | 1200 | 0.469048839 | | |
| 6 | 3,900,000 | 4,050,000 | 53 | 1345 | 0.208396058 | | |
| 6 | 3,975,000 | 4,125,000 | 54 | 1253 | 0.660664313 | QRFPR | |
| 6 | 4,050,000 | 4,200,000 | 55 | 1402 | 0.897641189 | QRFPR | |
| 6 | 4,125,000 | 4,275,000 | 56 | 1367 | 0.757205962 | QRFPR | |
| 6 | 4,200,000 | 4,350,000 | 57 | 967 | -0.317349222 | | |
| 6 | 4,275,000 | 4,425,000 | 58 | 854 | -0.17274738 | C6H4ORF31 | |
| 6 | 4,350,000 | 4,500,000 | 59 | 929 | 0.693556983 | C6H4ORF31,PRDM5 | |
| 6 | 4,425,000 | 4,575,000 | 60 | 761 | 0.88452219 | PRDM5 | |
| 6 | 4,500,000 | 4,650,000 | 61 | 616 | 0.585570376 | PRDM5 | |
| 6 | 4,575,000 | 4,725,000 | 62 | 1022 | 0.624099996 | PRDM5 | |
| 6 | 4,650,000 | 4,800,000 | 63 | 1159 | 0.29830584 | PRDM5 | |
| 6 | 4,725,000 | 4,875,000 | 64 | 960 | -1.073643276 | PRDM5 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|---|
| 6 | 4,800,000 | 4,950,000 | 65 | 798 | -0.919939159 | |
| 6 | 4,875,000 | 5,025,000 | 66 | 488 | 0.682194383 | |
| 6 | 4,950,000 | 5,100,000 | 67 | 481 | -0.071982587 | |
| 6 | 5,025,000 | 5,175,000 | 68 | 703 | -0.589882187 | |
| 6 | 5,100,000 | 5,250,000 | 69 | 769 | -1.046611203 | |
| 6 | 5,175,000 | 5,325,000 | 70 | 466 | -0.765658329 | |
| 6 | 5,250,000 | 5,400,000 | 71 | 73 | -0.398564511 | ENSBTAG00000037426 |
| 6 | 5,325,000 | 5,475,000 | 72 | 22 | -2.411570237 | ENSBTAG00000037426,ENSBTAG00000047900 |
| 6 | 5,475,000 | 5,625,000 | 74 | 1 | -0.394735638 | ENSBTAG00000024874,ENSBTAG00000035129,ENSBTAG0000047900 |
| 6 | 5,550,000 | 5,700,000 | 75 | 1 | -0.394735638 | ENSBTAG00000035129 |
| 6 | 5,775,000 | 5,925,000 | 78 | 2 | 1.425589255 | |
| 6 | 5,850,000 | 6,000,000 | 79 | 26 | -0.144518118 | |
| 6 | 5,925,000 | 6,075,000 | 80 | 42 | -6.907900423 | ENSBTAG00000035319 |
| 6 | 6,000,000 | 6,150,000 | 81 | 18 | -7.131413599 | ENSBTAG00000035319 |
| 6 | 6,375,000 | 6,525,000 | 86 | 185 | 0.859975798 | |
| 6 | 6,450,000 | 6,600,000 | 87 | 197 | 0.982277655 | |
| 6 | 6,525,000 | 6,675,000 | 88 | 134 | 0.995006589 | |
| 6 | 6,600,000 | 6,750,000 | 89 | 532 | 1.374524037 | |
| 6 | 6,675,000 | 6,825,000 | 90 | 790 | 0.129063039 | |
| 6 | 6,750,000 | 6,900,000 | 91 | 677 | -1.137744267 | PDE5A |
| 6 | 6,825,000 | 6,975,000 | 92 | 667 | -0.080479836 | PDE5A |
| 6 | 6,900,000 | 7,050,000 | 93 | 601 | 0.466908735 | PDE5A |
| 6 | 6,975,000 | 7,125,000 | 94 | 554 | 0.648760981 | FABP2,PDE5A |
| 6 | 7,050,000 | 7,200,000 | 95 | 830 | 0.712978847 | FABP2,PDE5A,USP53,ENSBTAG00000048273 |
| 6 | 7,125,000 | 7,275,000 | 96 | 839 | 0.699512182 | MYOZ2,USP53,ENSBTAG00000048273 |
| 6 | 7,200,000 | 7,350,000 | 97 | 703 | -0.092532199 | MYOZ2,USP53 |
| 6 | 7,275,000 | 7,425,000 | 98 | 628 | -0.607829492 | MYOZ2,SYNPO2 |
| 6 | 7,350,000 | 7,500,000 | 99 | 558 | -0.648684037 | SYNPO2 |
| 6 | 7,425,000 | 7,575,000 | 100 | 716 | -0.413053585 | SYNPO2 |
| 6 | 7,500,000 | 7,650,000 | 101 | 758 | 0.311014804 | SYNPO2 |
| 6 | 7,575,000 | 7,725,000 | 102 | 946 | 0.86794488 | SEC24D,SYNPO2 |
| 6 | 7,650,000 | 7,800,000 | 103 | 1006 | 0.286364292 | METTL14,SEC24D |
| 6 | 7,725,000 | 7,875,000 | 104 | 867 | -1.265820629 | METTL14,SEC24D |
| 6 | 7,800,000 | 7,950,000 | 105 | 929 | -0.601499699 | METTL14,PRSS12 |
| 6 | 7,875,000 | 8,025,000 | 106 | 897 | 0.362958984 | PRSS12 |
| 6 | 7,950,000 | 8,100,000 | 107 | 727 | 0.71055868 | NDST3,PRSS12 |
| 6 | 8,025,000 | 8,175,000 | 108 | 513 | 1.254775042 | NDST3 |
| 6 | 8,100,000 | 8,250,000 | 109 | 396 | 1.006714125 | NDST3 |
| 6 | 8,175,000 | 8,325,000 | 110 | 648 | 0.799307089 | NDST3 |
| 6 | 8,250,000 | 8,400,000 | 111 | 885 | -0.203660014 | NDST3 |
| 6 | 8,325,000 | 8,475,000 | 112 | 1040 | -2.692387842 | RPL39 |
| 6 | 8,400,000 | 8,550,000 | 113 | 1154 | -1.200853839 | RPL39 |
| 6 | 8,475,000 | 8,625,000 | 114 | 1315 | 1.075868239 | |
| 6 | 8,550,000 | 8,700,000 | 115 | 1471 | 0.738854924 | |
| 6 | 8,625,000 | 8,775,000 | 116 | 1213 | 0.647523063 | |
| 6 | 8,700,000 | 8,850,000 | 117 | 1287 | 0.974214272 | |
| 6 | 8,775,000 | 8,925,000 | 118 | 1189 | -0.689992978 | |
| 6 | 8,850,000 | 9,000,000 | 119 | 768 | -2.324756965 | |
| 6 | 8,925,000 | 9,075,000 | 120 | 1266 | 0.655777054 | ENSBTAG00000034849 |
| 6 | 9,000,000 | 9,150,000 | 121 | 1465 | 0.795790547 | ENSBTAG00000034849 |
| 6 | 9,075,000 | 9,225,000 | 122 | 693 | 0.198768826 | |
| 6 | 9,150,000 | 9,300,000 | 123 | 470 | 0.159994524 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------|
| 6 | 9,225,000 | 9,375,000 | 124 | 769 | -1.031193686 | |
| 6 | 9,300,000 | 9,450,000 | 125 | 956 | -1.634859318 | |
| 6 | 9,375,000 | 9,525,000 | 126 | 1099 | -1.143372605 | TRAM1L1 |
| 6 | 9,450,000 | 9,600,000 | 127 | 1731 | -0.398014255 | TRAM1L1 |
| 6 | 9,525,000 | 9,675,000 | 128 | 1851 | -0.057963944 | |
| 6 | 9,600,000 | 9,750,000 | 129 | 1319 | 0.304944706 | |
| 6 | 9,675,000 | 9,825,000 | 130 | 847 | 0.380624317 | |
| 6 | 9,750,000 | 9,900,000 | 131 | 987 | 0.764102184 | |
| 6 | 9,825,000 | 9,975,000 | 132 | 1818 | -0.441897055 | |
| 6 | 9,900,000 | 10,050,000 | 133 | 1617 | -0.929183114 | |
| 6 | 9,975,000 | 10,125,000 | 134 | 1230 | 0.296431626 | |
| 6 | 10,050,000 | 10,200,000 | 135 | 1318 | 0.344734227 | |
| 6 | 10,125,000 | 10,275,000 | 136 | 1151 | -0.855972385 | |
| 6 | 10,200,000 | 10,350,000 | 137 | 1077 | -1.030603995 | |
| 6 | 10,275,000 | 10,425,000 | 138 | 994 | -0.489741843 | |
| 6 | 10,350,000 | 10,500,000 | 139 | 1134 | -0.742166291 | |
| 6 | 10,425,000 | 10,575,000 | 140 | 1362 | -1.835716531 | |
| 6 | 10,500,000 | 10,650,000 | 141 | 1243 | -1.571949946 | |
| 6 | 10,575,000 | 10,725,000 | 142 | 1054 | -0.237637162 | |
| 6 | 10,650,000 | 10,800,000 | 143 | 1412 | 0.769121224 | |
| 6 | 10,725,000 | 10,875,000 | 144 | 1682 | 0.787226958 | |
| 6 | 10,800,000 | 10,950,000 | 145 | 1411 | 0.227098895 | |
| 6 | 10,875,000 | 11,025,000 | 146 | 1244 | -0.395877209 | |
| 6 | 10,950,000 | 11,100,000 | 147 | 956 | -0.728290501 | |
| 6 | 11,025,000 | 11,175,000 | 148 | 734 | -0.171049393 | |
| 6 | 11,100,000 | 11,250,000 | 149 | 821 | -0.117826763 | |
| 6 | 11,175,000 | 11,325,000 | 150 | 925 | -0.180346283 | |
| 6 | 11,250,000 | 11,400,000 | 151 | 707 | 0.421471805 | |
| 6 | 11,325,000 | 11,475,000 | 152 | 601 | 0.386546581 | |
| 6 | 11,400,000 | 11,550,000 | 153 | 693 | 0.286024021 | |
| 6 | 11,475,000 | 11,625,000 | 154 | 849 | 0.651033293 | |
| 6 | 11,550,000 | 11,700,000 | 155 | 1162 | 1.108555632 | NDST4 |
| 6 | 11,625,000 | 11,775,000 | 156 | 929 | 1.2446244 | NDST4 |
| 6 | 11,700,000 | 11,850,000 | 157 | 1029 | 1.080889977 | NDST4 |
| 6 | 11,775,000 | 11,925,000 | 158 | 1203 | 0.799052399 | NDST4 |
| 6 | 11,850,000 | 12,000,000 | 159 | 935 | 0.974614023 | NDST4 |
| 6 | 11,925,000 | 12,075,000 | 160 | 1027 | 1.218044089 | NDST4 |
| 6 | 12,000,000 | 12,150,000 | 161 | 928 | 0.372023398 | UGT8 |
| 6 | 12,075,000 | 12,225,000 | 162 | 859 | -0.62764164 | UGT8 |
| 6 | 12,150,000 | 12,300,000 | 163 | 942 | -1.225560235 | UGT8 |
| 6 | 12,225,000 | 12,375,000 | 164 | 1017 | -0.025453436 | |
| 6 | 12,300,000 | 12,450,000 | 165 | 1260 | 0.762844241 | |
| 6 | 12,375,000 | 12,525,000 | 166 | 1230 | 0.492999369 | |
| 6 | 12,450,000 | 12,600,000 | 167 | 1245 | -1.232691035 | |
| 6 | 12,525,000 | 12,675,000 | 168 | 1389 | -1.568943095 | |
| 6 | 12,600,000 | 12,750,000 | 169 | 1119 | -0.607729058 | ARSJ |
| 6 | 12,675,000 | 12,825,000 | 170 | 1074 | -0.253904783 | ARSJ |
| 6 | 12,750,000 | 12,900,000 | 171 | 996 | -0.020986826 | ARSJ |
| 6 | 12,825,000 | 12,975,000 | 172 | 722 | 0.115725786 | CAMK2D |
| 6 | 12,900,000 | 13,050,000 | 173 | 742 | -0.102733147 | CAMK2D |
| 6 | 12,975,000 | 13,125,000 | 174 | 902 | -0.522277012 | CAMK2D |
| 6 | 13,050,000 | 13,200,000 | 175 | 1089 | -0.416502782 | CAMK2D |
| 6 | 13,125,000 | 13,275,000 | 176 | 897 | 0.168156415 | CAMK2D |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 6 | 13,200,000 | 13,350,000 | 177 | 688 | 0.599595375 | CAMK2D |
| 6 | 13,275,000 | 13,425,000 | 178 | 635 | -0.462485632 | ANK2 |
| 6 | 13,350,000 | 13,500,000 | 179 | 428 | -1.045193636 | ANK2 |
| 6 | 13,425,000 | 13,575,000 | 180 | 574 | 0.161499562 | ANK2 |
| 6 | 13,500,000 | 13,650,000 | 181 | 1212 | 0.374553068 | ANK2 |
| 6 | 13,575,000 | 13,725,000 | 182 | 1494 | -0.429891725 | |
| 6 | 13,650,000 | 13,800,000 | 183 | 1296 | -0.834067338 | |
| 6 | 13,725,000 | 13,875,000 | 184 | 1266 | -0.2409034 | |
| 6 | 13,800,000 | 13,950,000 | 185 | 1134 | -0.535493072 | |
| 6 | 13,875,000 | 14,025,000 | 186 | 846 | -0.05147865 | |
| 6 | 13,950,000 | 14,100,000 | 187 | 1054 | -0.19463241 | |
| 6 | 14,025,000 | 14,175,000 | 188 | 1105 | -0.317018624 | LARP7,ENSBTAG00000026936 |
| 6 | 14,100,000 | 14,250,000 | 189 | 585 | 0.060184541 | LARP7,NEUROG2,ZGRF1,ENSBTAG00000026936 |
| 6 | 14,175,000 | 14,325,000 | 190 | 517 | -0.027547013 | ALPK1,NEUROG2,ZGRF1,ENSBTAG00000026936 |
| 6 | 14,250,000 | 14,400,000 | 191 | 739 | -0.078073928 | ALPK1,NEUROG2 |
| 6 | 14,325,000 | 14,475,000 | 192 | 903 | -0.789981086 | ALPK1,MGC155012,TIFA |
| 6 | 14,400,000 | 14,550,000 | 193 | 827 | -0.856695222 | C6H4orf32,MGC155012,TIFA |
| 6 | 14,475,000 | 14,625,000 | 194 | 704 | 0.30552458 | C6H4orf32 |
| 6 | 14,550,000 | 14,700,000 | 195 | 679 | -0.425615748 | C6H4orf32 |
| 6 | 14,625,000 | 14,775,000 | 196 | 710 | -0.158228412 | |
| 6 | 14,700,000 | 14,850,000 | 197 | 777 | 0.509693288 | |
| 6 | 14,775,000 | 14,925,000 | 198 | 741 | 0.469470338 | |
| 6 | 14,850,000 | 15,000,000 | 199 | 803 | 0.836871884 | |
| 6 | 14,925,000 | 15,075,000 | 200 | 907 | 1.045230588 | |
| 6 | 15,000,000 | 15,150,000 | 201 | 773 | 0.782186612 | |
| 6 | 15,075,000 | 15,225,000 | 202 | 601 | -0.228063354 | |
| 6 | 15,150,000 | 15,300,000 | 203 | 858 | -0.624164951 | |
| 6 | 15,225,000 | 15,375,000 | 204 | 935 | -0.627885244 | |
| 6 | 15,300,000 | 15,450,000 | 205 | 685 | -0.975271251 | |
| 6 | 15,375,000 | 15,525,000 | 206 | 700 | -0.96400683 | |
| 6 | 15,450,000 | 15,600,000 | 207 | 574 | -0.656995494 | |
| 6 | 15,525,000 | 15,675,000 | 208 | 318 | -1.469528134 | |
| 6 | 15,600,000 | 15,750,000 | 209 | 445 | -2.716429373 | |
| 6 | 15,675,000 | 15,825,000 | 210 | 521 | -1.472328693 | |
| 6 | 15,750,000 | 15,900,000 | 211 | 507 | 0.500528753 | |
| 6 | 15,825,000 | 15,975,000 | 212 | 657 | 0.91561958 | |
| 6 | 15,900,000 | 16,050,000 | 213 | 524 | 0.665134752 | PITX2 |
| 6 | 15,975,000 | 16,125,000 | 214 | 378 | -1.408755524 | ENPEP,PITX2 |
| 6 | 16,050,000 | 16,200,000 | 215 | 628 | -0.429397851 | ENPEP |
| 6 | 16,125,000 | 16,275,000 | 216 | 618 | 0.422084047 | ENPEP |
| 6 | 16,200,000 | 16,350,000 | 217 | 429 | 0.620275347 | |
| 6 | 16,275,000 | 16,425,000 | 218 | 427 | -0.177898002 | MGC139109,ENSBTAG00000038368 |
| 6 | 16,350,000 | 16,500,000 | 219 | 496 | -0.421854474 | MGC139109,ENSBTAG00000038368 |
| 6 | 16,425,000 | 16,575,000 | 220 | 755 | -0.43783985 | MGC139109 |
| 6 | 16,500,000 | 16,650,000 | 221 | 1024 | 0.257553892 | MGC139109 |
| 6 | 16,575,000 | 16,725,000 | 222 | 920 | 0.654319104 | LRIT3,RPS26 |
| 6 | 16,650,000 | 16,800,000 | 223 | 984 | 0.914876408 | CFI,GAR1,LRIT3,RPS26,RRH |
| 6 | 16,725,000 | 16,875,000 | 224 | 940 | 0.431471929 | CASP6,CCDC109B,CFI,GAR1,PLA2G12A,RRH |
| 6 | 16,800,000 | 16,950,000 | 225 | 767 | -2.310807473 | CASP6,CCDC109B,CFI,PLA2G12A |
| 6 | 16,875,000 | 17,025,000 | 226 | 541 | -3.067222809 | CCDC109B,SEC24B |
| 6 | 16,950,000 | 17,100,000 | 227 | 315 | -1.941232714 | CCDC109B,SEC24B |
| 6 | 17,025,000 | 17,175,000 | 228 | 617 | -1.657662252 | SEC24B |
| 6 | 17,100,000 | 17,250,000 | 229 | 830 | -0.398918311 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 17,175,000 | 17,325,000 | 230 | 604 | 0.370448801 | |
| 6 | 17,250,000 | 17,400,000 | 231 | 496 | 0.18551089 | |
| 6 | 17,325,000 | 17,475,000 | 232 | 499 | 0.107272963 | |
| 6 | 17,400,000 | 17,550,000 | 233 | 344 | -0.249834368 | COL25A1 |
| 6 | 17,475,000 | 17,625,000 | 234 | 366 | -0.272636926 | COL25A1 |
| 6 | 17,550,000 | 17,700,000 | 235 | 467 | 0.504518918 | COL25A1 |
| 6 | 17,625,000 | 17,775,000 | 236 | 694 | 0.985821893 | COL25A1,ETNPPL |
| 6 | 17,700,000 | 17,850,000 | 237 | 926 | 0.812875569 | ETNPPL,OSTC,RPL34 |
| 6 | 17,775,000 | 17,925,000 | 238 | 653 | 0.622352647 | OSTC,RPL34 |
| 6 | 17,850,000 | 18,000,000 | 239 | 168 | 0.877682613 | |
| 6 | 17,925,000 | 18,075,000 | 240 | 342 | 1.045449515 | |
| 6 | 18,000,000 | 18,150,000 | 241 | 797 | 0.477851961 | |
| 6 | 18,075,000 | 18,225,000 | 242 | 664 | -0.166304595 | |
| 6 | 18,150,000 | 18,300,000 | 243 | 354 | -0.619773732 | |
| 6 | 18,225,000 | 18,375,000 | 244 | 419 | -0.075074202 | LEF1 |
| 6 | 18,300,000 | 18,450,000 | 245 | 528 | 0.585560124 | LEF1 |
| 6 | 18,375,000 | 18,525,000 | 246 | 599 | 1.011981464 | CYP2U1,HADH,LEF1 |
| 6 | 18,450,000 | 18,600,000 | 247 | 624 | 0.850945049 | CYP2U1,HADH,LEF1,SGMS2 |
| 6 | 18,525,000 | 18,675,000 | 248 | 959 | 0.390268869 | CYP2U1,SGMS2 |
| 6 | 18,600,000 | 18,750,000 | 249 | 1255 | -0.09152647 | PAPSS1 |
| 6 | 18,675,000 | 18,825,000 | 250 | 999 | -0.075792294 | PAPSS1 |
| 6 | 18,750,000 | 18,900,000 | 251 | 796 | 0.507295137 | PAPSS1 |
| 6 | 18,825,000 | 18,975,000 | 252 | 826 | -0.223561383 | PAPSS1 |
| 6 | 18,900,000 | 19,050,000 | 253 | 834 | -1.137501827 | |
| 6 | 18,975,000 | 19,125,000 | 254 | 767 | 0.139523894 | |
| 6 | 19,050,000 | 19,200,000 | 255 | 1066 | 1.195059991 | |
| 6 | 19,125,000 | 19,275,000 | 256 | 1020 | 1.2731123 | |
| 6 | 19,200,000 | 19,350,000 | 257 | 928 | 1.047641457 | |
| 6 | 19,275,000 | 19,425,000 | 258 | 1078 | 0.896963833 | DKK2 |
| 6 | 19,350,000 | 19,500,000 | 259 | 783 | 0.370908006 | DKK2 |
| 6 | 19,425,000 | 19,575,000 | 260 | 468 | -0.158765928 | DKK2 |
| 6 | 19,500,000 | 19,650,000 | 261 | 350 | 0.645551659 | DKK2 |
| 6 | 19,575,000 | 19,725,000 | 262 | 386 | -0.040944883 | |
| 6 | 19,650,000 | 19,800,000 | 263 | 568 | -1.70996447 | |
| 6 | 19,725,000 | 19,875,000 | 264 | 686 | -0.345798313 | |
| 6 | 19,800,000 | 19,950,000 | 265 | 537 | 1.11891116 | |
| 6 | 19,875,000 | 20,025,000 | 266 | 489 | 0.984779381 | |
| 6 | 19,950,000 | 20,100,000 | 267 | 554 | 0.601580525 | GIMD1 |
| 6 | 20,025,000 | 20,175,000 | 268 | 1004 | 0.726841566 | GIMD1,SCYE1,TBCK |
| 6 | 20,100,000 | 20,250,000 | 269 | 1291 | 0.829120544 | GIMD1,SCYE1,TBCK |
| 6 | 20,175,000 | 20,325,000 | 270 | 1087 | -0.627482429 | TBCK |
| 6 | 20,250,000 | 20,400,000 | 271 | 968 | -1.007768854 | TBCK |
| 6 | 20,325,000 | 20,475,000 | 272 | 735 | 0.420914265 | NPNT,TBCK,ENSBTAG00000038232 |
| 6 | 20,400,000 | 20,550,000 | 273 | 721 | 0.790857827 | NPNT,ENSBTAG00000038232 |
| 6 | 20,475,000 | 20,625,000 | 274 | 782 | 0.554012602 | GSTCD,NPNT |
| 6 | 20,550,000 | 20,700,000 | 275 | 552 | 0.111579358 | GSTCD |
| 6 | 20,625,000 | 20,775,000 | 276 | 611 | -0.12886138 | GSTCD,INTS12,ENSBTAG00000008797 |
| 6 | 20,700,000 | 20,850,000 | 277 | 987 | 0.275845983 | GSTCD,INTS12,ENSBTAG00000008797,ENSBTAG000000033643 |
| 6 | 20,775,000 | 20,925,000 | 278 | 922 | 0.291876184 | ENSBTAG00000008797,ENSBTAG000000033643 |
| 6 | 20,850,000 | 21,000,000 | 279 | 766 | -0.400453266 | PPA2,ENSBTAG000000033643 |
| 6 | 20,925,000 | 21,075,000 | 280 | 652 | -0.48697326 | PPA2 |
| 6 | 21,000,000 | 21,150,000 | 281 | 583 | -0.547280716 | PPA2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------|
| 6 | 21,075,000 | 21,225,000 | 282 | 586 | 0.07530269 | PPA2,TET2 |
| 6 | 21,150,000 | 21,300,000 | 283 | 476 | 1.006566341 | TET2 |
| 6 | 21,225,000 | 21,375,000 | 284 | 594 | 1.010346321 | |
| 6 | 21,300,000 | 21,450,000 | 285 | 632 | 1.001350163 | |
| 6 | 21,375,000 | 21,525,000 | 286 | 747 | 1.149541852 | |
| 6 | 21,450,000 | 21,600,000 | 287 | 793 | 1.041850177 | |
| 6 | 21,525,000 | 21,675,000 | 288 | 474 | 0.031178862 | |
| 6 | 21,600,000 | 21,750,000 | 289 | 275 | -0.4014087 | |
| 6 | 21,675,000 | 21,825,000 | 290 | 497 | 0.191579306 | |
| 6 | 21,750,000 | 21,900,000 | 291 | 1030 | 0.354147268 | |
| 6 | 21,825,000 | 21,975,000 | 292 | 975 | 0.574970509 | |
| 6 | 21,900,000 | 22,050,000 | 293 | 457 | -0.153134423 | CXXC4 |
| 6 | 21,975,000 | 22,125,000 | 294 | 364 | -3.16500711 | CXXC4 |
| 6 | 22,050,000 | 22,200,000 | 295 | 370 | -2.231921353 | |
| 6 | 22,125,000 | 22,275,000 | 296 | 525 | 1.076861535 | |
| 6 | 22,200,000 | 22,350,000 | 297 | 574 | 0.880384307 | |
| 6 | 22,275,000 | 22,425,000 | 298 | 335 | 0.215322711 | |
| 6 | 22,350,000 | 22,500,000 | 299 | 706 | 0.778949398 | |
| 6 | 22,425,000 | 22,575,000 | 300 | 1189 | 0.438511466 | |
| 6 | 22,500,000 | 22,650,000 | 301 | 1048 | 0.199067409 | TACR3 |
| 6 | 22,575,000 | 22,725,000 | 302 | 832 | 0.517177289 | TACR3 |
| 6 | 22,650,000 | 22,800,000 | 303 | 743 | 0.529573087 | TACR3 |
| 6 | 22,725,000 | 22,875,000 | 304 | 471 | 0.571807105 | TACR3 |
| 6 | 22,800,000 | 22,950,000 | 305 | 496 | -0.773481174 | |
| 6 | 22,875,000 | 23,025,000 | 306 | 970 | 0.481413347 | CENPE |
| 6 | 22,950,000 | 23,100,000 | 307 | 1196 | 0.949736613 | BDH2,CENPE,SLC9B2 |
| 6 | 23,025,000 | 23,175,000 | 308 | 1311 | 0.660895549 | BDH2,CENPE,SLC9B2 |
| 6 | 23,100,000 | 23,250,000 | 309 | 1210 | 0.598750452 | NHEDC1,SLC9B2 |
| 6 | 23,175,000 | 23,325,000 | 310 | 803 | 0.246325515 | CISD2,NHEDC1,SLC9B2 |
| 6 | 23,250,000 | 23,400,000 | 311 | 684 | -0.650535878 | CISD2,MANBA,NHEDC1 |
| 6 | 23,325,000 | 23,475,000 | 312 | 1092 | 0.342963832 | MANBA |
| 6 | 23,400,000 | 23,550,000 | 313 | 1066 | 0.422824146 | MANBA |
| 6 | 23,475,000 | 23,625,000 | 314 | 633 | -0.02835124 | MANBA,NFKB1 |
| 6 | 23,550,000 | 23,700,000 | 315 | 637 | -0.049455322 | NFKB1 |
| 6 | 23,625,000 | 23,775,000 | 316 | 743 | 0.762711199 | NFKB1 |
| 6 | 23,700,000 | 23,850,000 | 317 | 670 | 0.768502898 | SLC39A8 |
| 6 | 23,775,000 | 23,925,000 | 318 | 583 | -0.035853472 | SLC39A8 |
| 6 | 23,850,000 | 24,000,000 | 319 | 877 | -0.093093991 | SLC39A8 |
| 6 | 23,925,000 | 24,075,000 | 320 | 1086 | 0.340965427 | BANK1 |
| 6 | 24,000,000 | 24,150,000 | 321 | 922 | 0.737672623 | BANK1 |
| 6 | 24,075,000 | 24,225,000 | 322 | 933 | 1.130097754 | BANK1 |
| 6 | 24,150,000 | 24,300,000 | 323 | 1053 | 0.98842232 | |
| 6 | 24,225,000 | 24,375,000 | 324 | 828 | 0.738649548 | |
| 6 | 24,300,000 | 24,450,000 | 325 | 635 | 0.188293256 | |
| 6 | 24,375,000 | 24,525,000 | 326 | 606 | -0.11876091 | |
| 6 | 24,450,000 | 24,600,000 | 327 | 534 | 0.199521752 | |
| 6 | 24,525,000 | 24,675,000 | 328 | 630 | 0.677706276 | |
| 6 | 24,600,000 | 24,750,000 | 329 | 711 | -0.298866797 | |
| 6 | 24,675,000 | 24,825,000 | 330 | 593 | -0.736484443 | PPP3CA |
| 6 | 24,750,000 | 24,900,000 | 331 | 491 | 0.743929391 | PPP3CA |
| 6 | 24,825,000 | 24,975,000 | 332 | 717 | 0.601882115 | PPP3CA |
| 6 | 24,900,000 | 25,050,000 | 333 | 850 | 0.461225937 | PPP3CA |
| 6 | 24,975,000 | 25,125,000 | 334 | 503 | 0.564887555 | PPP3CA |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 25,050,000 | 25,200,000 | 335 | 376 | -0.738454465 | PPP3CA |
| 6 | 25,125,000 | 25,275,000 | 336 | 746 | -0.2581221 | PPP3CA |
| 6 | 25,200,000 | 25,350,000 | 337 | 707 | 0.281098716 | |
| 6 | 25,275,000 | 25,425,000 | 338 | 669 | 0.603924111 | |
| 6 | 25,350,000 | 25,500,000 | 339 | 1064 | 0.847340692 | |
| 6 | 25,425,000 | 25,575,000 | 340 | 879 | 0.874360122 | |
| 6 | 25,500,000 | 25,650,000 | 341 | 770 | -0.735855062 | EMCN |
| 6 | 25,575,000 | 25,725,000 | 342 | 832 | -1.890903404 | EMCN |
| 6 | 25,650,000 | 25,800,000 | 343 | 778 | -1.056603015 | EMCN |
| 6 | 25,725,000 | 25,875,000 | 344 | 615 | -0.207258138 | |
| 6 | 25,800,000 | 25,950,000 | 345 | 607 | 0.70405408 | DDIT4L |
| 6 | 25,875,000 | 26,025,000 | 346 | 848 | -0.048749946 | DDIT4L |
| 6 | 25,950,000 | 26,100,000 | 347 | 812 | -0.786039335 | MGC157237 |
| 6 | 26,025,000 | 26,175,000 | 348 | 546 | -0.097852752 | DAPP1,DNAJB14,H2AFZ,LAMTOR3,MGC157237 |
| 6 | 26,100,000 | 26,250,000 | 349 | 374 | -0.693295038 | DAPP1,DNAJB14,H2AFZ,LAMTOR3 |
| 6 | 26,175,000 | 26,325,000 | 350 | 379 | -1.6246743 | DAPP1 |
| 6 | 26,250,000 | 26,400,000 | 351 | 438 | -1.797734243 | MTTP,ENSBTAG00000046333 |
| 6 | 26,325,000 | 26,475,000 | 352 | 464 | -0.674381337 | MTTP,TRMT10A,ENSBTAG00000046333 |
| 6 | 26,400,000 | 26,550,000 | 353 | 597 | 0.191832118 | ADH7,C4orf17,MTTP,TRMT10A |
| 6 | 26,475,000 | 26,625,000 | 354 | 926 | 0.211436839 | ADH7,C4orf17 |
| 6 | 26,550,000 | 26,700,000 | 355 | 1000 | 0.253638609 | ADH7,ENSBTAG00000006986,ENSBTAG00000034189,ENSBTAG00000034514 |
| 6 | 26,625,000 | 26,775,000 | 356 | 1066 | 0.249631184 | ENSBTAG00000006986,ENSBTAG00000034189,ENSBTAG00000034514 |
| 6 | 26,700,000 | 26,850,000 | 357 | 737 | 0.005183523 | ADH6,ENSBTAG00000006986 |
| 6 | 26,775,000 | 26,925,000 | 358 | 490 | 0.584681316 | ADH4,ADH5,ADH6 |
| 6 | 26,850,000 | 27,000,000 | 359 | 447 | 0.900849766 | ADH4,ADH5,METAP1 |
| 6 | 26,925,000 | 27,075,000 | 360 | 406 | 0.774951473 | EIF4E,METAP1,ENSBTAG00000024125 |
| 6 | 27,000,000 | 27,150,000 | 361 | 690 | 0.682144625 | EIF4E,ENSBTAG00000024125 |
| 6 | 27,075,000 | 27,225,000 | 362 | 791 | 0.19013229 | EIF4E |
| 6 | 27,150,000 | 27,300,000 | 363 | 1011 | -0.231133763 | |
| 6 | 27,225,000 | 27,375,000 | 364 | 961 | 0.160064367 | TSPAN5 |
| 6 | 27,300,000 | 27,450,000 | 365 | 767 | 0.633742194 | TSPAN5 |
| 6 | 27,375,000 | 27,525,000 | 366 | 768 | 0.239157468 | TSPAN5 |
| 6 | 27,450,000 | 27,600,000 | 367 | 626 | 0.163546877 | RAP1GDS1,TSPAN5 |
| 6 | 27,525,000 | 27,675,000 | 368 | 613 | 0.254288767 | RAP1GDS1 |
| 6 | 27,600,000 | 27,750,000 | 369 | 881 | 0.170375218 | RAP1GDS1 |
| 6 | 27,675,000 | 27,825,000 | 370 | 1317 | -0.016763454 | |
| 6 | 27,750,000 | 27,900,000 | 371 | 1256 | -0.029054419 | |
| 6 | 27,825,000 | 27,975,000 | 372 | 1170 | -0.24763743 | |
| 6 | 27,900,000 | 28,050,000 | 373 | 1429 | -0.112657468 | |
| 6 | 27,975,000 | 28,125,000 | 374 | 1052 | -0.128311138 | ENSBTAG00000023000 |
| 6 | 28,050,000 | 28,200,000 | 375 | 839 | -0.970053029 | ENSBTAG00000023000 |
| 6 | 28,125,000 | 28,275,000 | 376 | 1025 | -1.034859662 | |
| 6 | 28,200,000 | 28,350,000 | 377 | 1207 | -0.645457783 | |
| 6 | 28,275,000 | 28,425,000 | 378 | 1345 | -0.058901406 | |
| 6 | 28,350,000 | 28,500,000 | 379 | 1343 | 0.568950191 | |
| 6 | 28,425,000 | 28,575,000 | 380 | 1454 | -0.140126151 | |
| 6 | 28,500,000 | 28,650,000 | 381 | 1491 | -0.652741401 | |
| 6 | 28,575,000 | 28,725,000 | 382 | 1258 | -0.280360281 | |
| 6 | 28,650,000 | 28,800,000 | 383 | 1264 | -0.203731481 | |
| 6 | 28,725,000 | 28,875,000 | 384 | 1582 | -0.571385278 | |
| 6 | 28,800,000 | 28,950,000 | 385 | 1608 | -0.075113937 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------|
| 6 | 28,875,000 | 29,025,000 | 386 | 1536 | 0.040347312 | |
| 6 | 28,950,000 | 29,100,000 | 387 | 1337 | -0.093324615 | |
| 6 | 29,025,000 | 29,175,000 | 388 | 921 | 0.04845792 | |
| 6 | 29,100,000 | 29,250,000 | 389 | 697 | -0.807875932 | |
| 6 | 29,175,000 | 29,325,000 | 390 | 575 | -0.938935666 | |
| 6 | 29,250,000 | 29,400,000 | 391 | 401 | -0.11639013 | ENSBTAG00000015464 |
| 6 | 29,325,000 | 29,475,000 | 392 | 605 | -0.286377919 | ENSBTAG00000015464 |
| 6 | 29,400,000 | 29,550,000 | 393 | 1199 | 0.727190117 | |
| 6 | 29,475,000 | 29,625,000 | 394 | 1642 | 1.022238954 | |
| 6 | 29,550,000 | 29,700,000 | 395 | 1654 | 0.979333765 | |
| 6 | 29,625,000 | 29,775,000 | 396 | 1598 | 0.794180242 | |
| 6 | 29,700,000 | 29,850,000 | 397 | 1353 | 0.327743008 | |
| 6 | 29,775,000 | 29,925,000 | 398 | 1206 | 0.220041742 | |
| 6 | 29,850,000 | 30,000,000 | 399 | 1489 | 0.573406567 | |
| 6 | 29,925,000 | 30,075,000 | 400 | 1751 | 0.328858439 | PDHA2 |
| 6 | 30,000,000 | 30,150,000 | 401 | 1612 | 0.129762418 | PDHA2 |
| 6 | 30,075,000 | 30,225,000 | 402 | 1577 | 0.495762072 | |
| 6 | 30,150,000 | 30,300,000 | 403 | 1914 | 0.174042856 | |
| 6 | 30,225,000 | 30,375,000 | 404 | 1756 | -0.501884709 | |
| 6 | 30,300,000 | 30,450,000 | 405 | 1321 | -0.494481594 | |
| 6 | 30,375,000 | 30,525,000 | 406 | 1223 | 0.476655199 | |
| 6 | 30,450,000 | 30,600,000 | 407 | 981 | 0.716159374 | UNC5C |
| 6 | 30,525,000 | 30,675,000 | 408 | 705 | 0.634342829 | UNC5C |
| 6 | 30,600,000 | 30,750,000 | 409 | 657 | -1.787170646 | UNC5C |
| 6 | 30,675,000 | 30,825,000 | 410 | 859 | -0.3786343 | BMPR1B,UNC5C |
| 6 | 30,750,000 | 30,900,000 | 411 | 740 | 0.712295575 | BMPR1B,UNC5C |
| 6 | 30,825,000 | 30,975,000 | 412 | 451 | 0.190659897 | BMPR1B |
| 6 | 30,900,000 | 31,050,000 | 413 | 588 | -0.198366223 | |
| 6 | 30,975,000 | 31,125,000 | 414 | 537 | -0.284697951 | |
| 6 | 31,050,000 | 31,200,000 | 415 | 420 | -0.083038686 | |
| 6 | 31,125,000 | 31,275,000 | 416 | 486 | 0.207926649 | |
| 6 | 31,200,000 | 31,350,000 | 417 | 510 | 0.071519184 | PDLIM5 |
| 6 | 31,275,000 | 31,425,000 | 418 | 397 | -0.282646299 | PDLIM5 |
| 6 | 31,350,000 | 31,500,000 | 419 | 466 | -0.344955682 | PDLIM5 |
| 6 | 31,425,000 | 31,575,000 | 420 | 757 | -0.261257 | PDLIM5 |
| 6 | 31,500,000 | 31,650,000 | 421 | 681 | -0.144947672 | PDLIM5 |
| 6 | 31,575,000 | 31,725,000 | 422 | 570 | 0.715256982 | HPGDS |
| 6 | 31,650,000 | 31,800,000 | 423 | 588 | 1.000173741 | HPGDS,SMARCAD1 |
| 6 | 31,725,000 | 31,875,000 | 424 | 415 | 0.855492753 | HPGDS,SMARCAD1 |
| 6 | 31,800,000 | 31,950,000 | 425 | 404 | 1.087717536 | SMARCAD1 |
| 6 | 31,875,000 | 32,025,000 | 426 | 833 | 1.182417419 | |
| 6 | 31,950,000 | 32,100,000 | 427 | 816 | 0.848266847 | |
| 6 | 32,025,000 | 32,175,000 | 428 | 458 | -0.138563335 | ATOH1 |
| 6 | 32,100,000 | 32,250,000 | 429 | 477 | -1.271294754 | ATOH1,GRID2,ENSBTAG00000046473 |
| 6 | 32,175,000 | 32,325,000 | 430 | 489 | -2.838416725 | GRID2,ENSBTAG00000046473 |
| 6 | 32,250,000 | 32,400,000 | 431 | 615 | -0.830356356 | |
| 6 | 32,325,000 | 32,475,000 | 432 | 701 | 0.74641104 | |
| 6 | 32,400,000 | 32,550,000 | 433 | 596 | 1.082464472 | |
| 6 | 32,475,000 | 32,625,000 | 434 | 641 | 1.175536188 | |
| 6 | 32,550,000 | 32,700,000 | 435 | 842 | 0.253135764 | |
| 6 | 32,625,000 | 32,775,000 | 436 | 1095 | -0.203415985 | |
| 6 | 32,700,000 | 32,850,000 | 437 | 981 | 0.168970951 | |
| 6 | 32,775,000 | 32,925,000 | 438 | 668 | -0.096037608 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 6 | 32,850,000 | 33,000,000 | 439 | 616 | -0.008080637 | ENSBTAG00000047255 |
| 6 | 32,925,000 | 33,075,000 | 440 | 535 | 0.740936187 | ENSBTAG00000047255 |
| 6 | 33,000,000 | 33,150,000 | 441 | 602 | 0.535871541 | |
| 6 | 33,075,000 | 33,225,000 | 442 | 1076 | 0.236480831 | |
| 6 | 33,150,000 | 33,300,000 | 443 | 1032 | 0.01176775 | ENSBTAG00000019490 |
| 6 | 33,225,000 | 33,375,000 | 444 | 765 | 0.395419454 | ENSBTAG00000019490 |
| 6 | 33,300,000 | 33,450,000 | 445 | 591 | 0.463384584 | |
| 6 | 33,375,000 | 33,525,000 | 446 | 364 | -3.282925483 | ENSBTAG00000047821 |
| 6 | 33,450,000 | 33,600,000 | 447 | 438 | -3.674476502 | ENSBTAG00000047821 |
| 6 | 33,525,000 | 33,675,000 | 448 | 420 | -2.89044473 | |
| 6 | 33,600,000 | 33,750,000 | 449 | 577 | -4.057559696 | |
| 6 | 33,675,000 | 33,825,000 | 450 | 771 | -3.920058349 | |
| 6 | 33,750,000 | 33,900,000 | 451 | 674 | -2.521031425 | |
| 6 | 33,825,000 | 33,975,000 | 452 | 741 | -1.582553753 | |
| 6 | 33,900,000 | 34,050,000 | 453 | 794 | -1.800158252 | |
| 6 | 33,975,000 | 34,125,000 | 454 | 434 | -1.342446508 | |
| 6 | 34,050,000 | 34,200,000 | 455 | 359 | -1.294006902 | |
| 6 | 34,125,000 | 34,275,000 | 456 | 489 | -0.331545429 | |
| 6 | 34,200,000 | 34,350,000 | 457 | 886 | 0.616379318 | |
| 6 | 34,275,000 | 34,425,000 | 458 | 1021 | -0.164940355 | |
| 6 | 34,350,000 | 34,500,000 | 459 | 730 | -0.755995538 | |
| 6 | 34,425,000 | 34,575,000 | 460 | 657 | -0.20871712 | |
| 6 | 34,500,000 | 34,650,000 | 461 | 683 | -0.187732461 | |
| 6 | 34,575,000 | 34,725,000 | 462 | 953 | -0.317383772 | |
| 6 | 34,650,000 | 34,800,000 | 463 | 801 | -0.134339979 | |
| 6 | 34,725,000 | 34,875,000 | 464 | 403 | 0.874725369 | |
| 6 | 34,800,000 | 34,950,000 | 465 | 297 | 0.7228943 | |
| 6 | 34,875,000 | 35,025,000 | 466 | 274 | -1.499825967 | |
| 6 | 34,950,000 | 35,100,000 | 467 | 543 | -1.112942773 | |
| 6 | 35,025,000 | 35,175,000 | 468 | 931 | 0.92684511 | CCSER1 |
| 6 | 35,100,000 | 35,250,000 | 469 | 922 | 1.189213554 | CCSER1 |
| 6 | 35,175,000 | 35,325,000 | 470 | 604 | 0.756943411 | CCSER1 |
| 6 | 35,250,000 | 35,400,000 | 471 | 484 | 0.952741054 | CCSER1 |
| 6 | 35,325,000 | 35,475,000 | 472 | 748 | 0.732472066 | CCSER1 |
| 6 | 35,400,000 | 35,550,000 | 473 | 1019 | -0.081982442 | CCSER1 |
| 6 | 35,475,000 | 35,625,000 | 474 | 797 | -0.444101557 | CCSER1 |
| 6 | 35,550,000 | 35,700,000 | 475 | 670 | 0.339554763 | CCSER1 |
| 6 | 35,625,000 | 35,775,000 | 476 | 707 | 0.293272663 | CCSER1 |
| 6 | 35,700,000 | 35,850,000 | 477 | 864 | 0.245134403 | CCSER1 |
| 6 | 35,775,000 | 35,925,000 | 478 | 1074 | 0.389815388 | CCSER1 |
| 6 | 35,850,000 | 36,000,000 | 479 | 891 | 0.352441188 | CCSER1 |
| 6 | 35,925,000 | 36,075,000 | 480 | 611 | 0.626998393 | CCSER1 |
| 6 | 36,000,000 | 36,150,000 | 481 | 356 | 0.801583362 | MMRN1 |
| 6 | 36,075,000 | 36,225,000 | 482 | 432 | -2.981330766 | MMRN1 |
| 6 | 36,150,000 | 36,300,000 | 483 | 694 | -2.316509835 | MMRN1,SNCA |
| 6 | 36,225,000 | 36,375,000 | 484 | 554 | -0.57224894 | SNCA |
| 6 | 36,300,000 | 36,450,000 | 485 | 407 | 0.507134536 | SNCA |
| 6 | 36,375,000 | 36,525,000 | 486 | 602 | 0.998501925 | SNCA |
| 6 | 36,450,000 | 36,600,000 | 487 | 907 | 0.711972717 | |
| 6 | 36,525,000 | 36,675,000 | 488 | 1061 | 0.430149798 | |
| 6 | 36,600,000 | 36,750,000 | 489 | 1150 | 0.18732209 | |
| 6 | 36,675,000 | 36,825,000 | 490 | 1190 | 0.076211709 | |
| 6 | 36,750,000 | 36,900,000 | 491 | 1127 | 0.440015779 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 6 | 36,825,000 | 36,975,000 | 492 | 1327 | 0.37243485 | |
| 6 | 36,900,000 | 37,050,000 | 493 | 1529 | 0.492888108 | GPRIN3 |
| 6 | 36,975,000 | 37,125,000 | 494 | 1446 | 1.057018696 | GPRIN3,TIGD2 |
| 6 | 37,050,000 | 37,200,000 | 495 | 1274 | 1.06178366 | TIGD2,ENSBTAG00000033346 |
| 6 | 37,125,000 | 37,275,000 | 496 | 1255 | 0.693794282 | ENSBTAG00000033346 |
| 6 | 37,200,000 | 37,350,000 | 497 | 1316 | 0.702081909 | |
| 6 | 37,275,000 | 37,425,000 | 498 | 1256 | 0.651025791 | FAM13A |
| 6 | 37,350,000 | 37,500,000 | 499 | 1148 | 0.363249218 | FAM13A,HERC3 |
| 6 | 37,425,000 | 37,575,000 | 500 | 1151 | 0.244414393 | FAM13A,HERC3,NAP1L5 |
| 6 | 37,500,000 | 37,650,000 | 501 | 1234 | 0.351184639 | HERC3,NAP1L5 |
| 6 | 37,575,000 | 37,725,000 | 502 | 877 | 0.196150689 | HERC3,HERC5,PIGY |
| 6 | 37,650,000 | 37,800,000 | 503 | 509 | -1.989695956 | HERC5,HERC6,PIGY |
| 6 | 37,725,000 | 37,875,000 | 504 | 765 | -1.855995781 | HERC5,HERC6 |
| 6 | 37,800,000 | 37,950,000 | 505 | 1012 | -0.61599815 | ABCG2,PPM1K |
| 6 | 37,875,000 | 38,025,000 | 506 | 991 | 0.055913337 | ABCG2,PPM1K |
| 6 | 37,950,000 | 38,100,000 | 507 | 626 | 0.154838018 | ABCG2,PKD2 |
| 6 | 38,025,000 | 38,175,000 | 508 | 305 | 0.749032089 | ABCG2,PKD2,SPP1 |
| 6 | 38,100,000 | 38,250,000 | 509 | 581 | 0.959351714 | SPP1 |
| 6 | 38,175,000 | 38,325,000 | 510 | 663 | 0.449300303 | IBSP,MEPE |
| 6 | 38,250,000 | 38,400,000 | 511 | 547 | -0.142676137 | IBSP,MEPE |
| 6 | 38,325,000 | 38,475,000 | 512 | 937 | 0.656091549 | |
| 6 | 38,400,000 | 38,550,000 | 513 | 1501 | 0.666895198 | |
| 6 | 38,475,000 | 38,625,000 | 514 | 1316 | 0.800302736 | FAM184B,LAP3,MED28 |
| 6 | 38,550,000 | 38,700,000 | 515 | 774 | 1.110246716 | FAM184B,LAP3,MED28 |
| 6 | 38,625,000 | 38,775,000 | 516 | 831 | 1.206679574 | DCAF16,FAM184B,HCAP-G |
| 6 | 38,700,000 | 38,850,000 | 517 | 775 | 1.165355637 | DCAF16,HCAP-G,LCORL |
| 6 | 38,775,000 | 38,925,000 | 518 | 492 | 0.966476871 | HCAP-G,LCORL |
| 6 | 38,850,000 | 39,000,000 | 519 | 408 | 0.863596804 | LCORL |
| 6 | 38,925,000 | 39,075,000 | 520 | 349 | 0.866521816 | LCORL |
| 6 | 39,000,000 | 39,150,000 | 521 | 271 | 1.018299158 | |
| 6 | 39,075,000 | 39,225,000 | 522 | 332 | 0.915387621 | |
| 6 | 39,150,000 | 39,300,000 | 523 | 743 | 0.520408981 | |
| 6 | 39,225,000 | 39,375,000 | 524 | 1095 | 0.677251314 | |
| 6 | 39,300,000 | 39,450,000 | 525 | 1068 | 1.044445024 | |
| 6 | 39,375,000 | 39,525,000 | 526 | 910 | 0.699525588 | |
| 6 | 39,450,000 | 39,600,000 | 527 | 829 | -0.316319323 | |
| 6 | 39,525,000 | 39,675,000 | 528 | 810 | -0.934284142 | |
| 6 | 39,600,000 | 39,750,000 | 529 | 743 | -0.85783412 | |
| 6 | 39,675,000 | 39,825,000 | 530 | 801 | -0.207994272 | |
| 6 | 39,750,000 | 39,900,000 | 531 | 585 | -0.049301908 | |
| 6 | 39,825,000 | 39,975,000 | 532 | 242 | -0.281225186 | |
| 6 | 39,900,000 | 40,050,000 | 533 | 360 | -0.032242256 | |
| 6 | 39,975,000 | 40,125,000 | 534 | 485 | 0.261626568 | |
| 6 | 40,050,000 | 40,200,000 | 535 | 403 | 0.203739262 | |
| 6 | 40,125,000 | 40,275,000 | 536 | 497 | 0.38308014 | |
| 6 | 40,200,000 | 40,350,000 | 537 | 877 | -0.134841295 | |
| 6 | 40,275,000 | 40,425,000 | 538 | 787 | -0.545390586 | |
| 6 | 40,350,000 | 40,500,000 | 539 | 517 | -0.40929976 | |
| 6 | 40,425,000 | 40,575,000 | 540 | 542 | 0.234101088 | |
| 6 | 40,500,000 | 40,650,000 | 541 | 847 | 0.945755332 | |
| 6 | 40,575,000 | 40,725,000 | 542 | 887 | 0.63196275 | |
| 6 | 40,650,000 | 40,800,000 | 543 | 574 | 0.497329637 | |
| 6 | 40,725,000 | 40,875,000 | 544 | 543 | 0.978834384 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------|
| 6 | 40,800,000 | 40,950,000 | 545 | 608 | 0.888390389 | |
| 6 | 40,875,000 | 41,025,000 | 546 | 495 | 0.893365633 | |
| 6 | 40,950,000 | 41,100,000 | 547 | 311 | 0.959485635 | |
| 6 | 41,025,000 | 41,175,000 | 548 | 255 | 1.105186422 | |
| 6 | 41,100,000 | 41,250,000 | 549 | 312 | 0.981708233 | SLIT2 |
| 6 | 41,175,000 | 41,325,000 | 550 | 520 | 0.784377054 | SLIT2 |
| 6 | 41,250,000 | 41,400,000 | 551 | 778 | 0.978492463 | SLIT2 |
| 6 | 41,325,000 | 41,475,000 | 552 | 936 | 1.145560263 | SLIT2 |
| 6 | 41,400,000 | 41,550,000 | 553 | 640 | 1.019140728 | SLIT2 |
| 6 | 41,475,000 | 41,625,000 | 554 | 452 | 0.575563597 | SLIT2 |
| 6 | 41,550,000 | 41,700,000 | 555 | 747 | 0.786538879 | PACRGL,SLIT2 |
| 6 | 41,625,000 | 41,775,000 | 556 | 1160 | 0.725505186 | KCNIP4,PACRGL,SLIT2 |
| 6 | 41,700,000 | 41,850,000 | 557 | 1370 | 0.85337506 | KCNIP4,PACRGL |
| 6 | 41,775,000 | 41,925,000 | 558 | 1520 | 0.704102025 | KCNIP4 |
| 6 | 41,850,000 | 42,000,000 | 559 | 1708 | 0.819857619 | KCNIP4 |
| 6 | 41,925,000 | 42,075,000 | 560 | 1710 | 0.985722305 | KCNIP4 |
| 6 | 42,000,000 | 42,150,000 | 561 | 1630 | 1.005793407 | KCNIP4 |
| 6 | 42,075,000 | 42,225,000 | 562 | 1456 | 0.724007501 | KCNIP4 |
| 6 | 42,150,000 | 42,300,000 | 563 | 1483 | 0.037283973 | KCNIP4 |
| 6 | 42,225,000 | 42,375,000 | 564 | 1597 | 0.506759086 | KCNIP4 |
| 6 | 42,300,000 | 42,450,000 | 565 | 1416 | 0.574497198 | KCNIP4 |
| 6 | 42,375,000 | 42,525,000 | 566 | 1226 | -0.362077339 | KCNIP4 |
| 6 | 42,450,000 | 42,600,000 | 567 | 1012 | -0.90579614 | KCNIP4 |
| 6 | 42,525,000 | 42,675,000 | 568 | 583 | -0.833384179 | KCNIP4 |
| 6 | 42,600,000 | 42,750,000 | 569 | 432 | 0.671621041 | KCNIP4 |
| 6 | 42,675,000 | 42,825,000 | 570 | 580 | 1.094556034 | KCNIP4 |
| 6 | 42,750,000 | 42,900,000 | 571 | 682 | 1.203720867 | KCNIP4 |
| 6 | 42,825,000 | 42,975,000 | 572 | 784 | 0.569192349 | KCNIP4 |
| 6 | 42,900,000 | 43,050,000 | 573 | 724 | -0.330167409 | KCNIP4 |
| 6 | 42,975,000 | 43,125,000 | 574 | 502 | 0.245618196 | KCNIP4 |
| 6 | 43,050,000 | 43,200,000 | 575 | 406 | 0.567039425 | |
| 6 | 43,125,000 | 43,275,000 | 576 | 431 | 0.397825025 | |
| 6 | 43,200,000 | 43,350,000 | 577 | 436 | 0.505065586 | |
| 6 | 43,275,000 | 43,425,000 | 578 | 838 | 0.427408547 | |
| 6 | 43,350,000 | 43,500,000 | 579 | 1100 | 0.412934866 | GPR125 |
| 6 | 43,425,000 | 43,575,000 | 580 | 824 | 0.448503301 | GPR125 |
| 6 | 43,500,000 | 43,650,000 | 581 | 910 | 0.654279729 | GPR125 |
| 6 | 43,575,000 | 43,725,000 | 582 | 915 | 0.219854505 | GBA3 |
| 6 | 43,650,000 | 43,800,000 | 583 | 606 | -0.425182522 | GBA3 |
| 6 | 43,725,000 | 43,875,000 | 584 | 571 | -0.136314917 | GBA3 |
| 6 | 43,800,000 | 43,950,000 | 585 | 653 | -0.836948971 | GBA3 |
| 6 | 43,875,000 | 44,025,000 | 586 | 528 | -0.99424267 | |
| 6 | 43,950,000 | 44,100,000 | 587 | 388 | -0.610228287 | |
| 6 | 44,025,000 | 44,175,000 | 588 | 673 | -0.925542376 | |
| 6 | 44,100,000 | 44,250,000 | 589 | 660 | -0.783665736 | |
| 6 | 44,175,000 | 44,325,000 | 590 | 535 | -0.776322386 | |
| 6 | 44,250,000 | 44,400,000 | 591 | 808 | -1.140730501 | |
| 6 | 44,325,000 | 44,475,000 | 592 | 981 | -0.31377788 | |
| 6 | 44,400,000 | 44,550,000 | 593 | 918 | 0.409935208 | |
| 6 | 44,475,000 | 44,625,000 | 594 | 876 | 0.458829841 | |
| 6 | 44,550,000 | 44,700,000 | 595 | 925 | 0.813002892 | ENSBTAG00000033327 |
| 6 | 44,625,000 | 44,775,000 | 596 | 754 | 1.08407099 | ENSBTAG00000033327 |
| 6 | 44,700,000 | 44,850,000 | 597 | 730 | 0.469094283 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 6 | 44,775,000 | 44,925,000 | 598 | 646 | -0.707411692 | PPARGC1A |
| 6 | 44,850,000 | 45,000,000 | 599 | 453 | -1.123555261 | PPARGC1A |
| 6 | 44,925,000 | 45,075,000 | 600 | 405 | -0.620934246 | PPARGC1A |
| 6 | 45,000,000 | 45,150,000 | 601 | 461 | 0.188550636 | |
| 6 | 45,075,000 | 45,225,000 | 602 | 542 | 0.836484249 | |
| 6 | 45,150,000 | 45,300,000 | 603 | 458 | 1.093777283 | |
| 6 | 45,225,000 | 45,375,000 | 604 | 557 | -0.335148975 | |
| 6 | 45,300,000 | 45,450,000 | 605 | 608 | -1.124547461 | |
| 6 | 45,375,000 | 45,525,000 | 606 | 435 | -0.801082228 | |
| 6 | 45,450,000 | 45,600,000 | 607 | 360 | 0.20113153 | |
| 6 | 45,525,000 | 45,675,000 | 608 | 337 | 0.573801998 | DHX15 |
| 6 | 45,600,000 | 45,750,000 | 609 | 287 | 0.984980205 | DHX15 |
| 6 | 45,675,000 | 45,825,000 | 610 | 271 | 0.930248755 | DHX15 |
| 6 | 45,750,000 | 45,900,000 | 611 | 573 | 1.112981177 | |
| 6 | 45,825,000 | 45,975,000 | 612 | 855 | 0.513428388 | CCDC149,ECSOD |
| 6 | 45,900,000 | 46,050,000 | 613 | 594 | -0.035264213 | CCDC149,ECSOD |
| 6 | 45,975,000 | 46,125,000 | 614 | 487 | 0.64527049 | CCDC149 |
| 6 | 46,050,000 | 46,200,000 | 615 | 438 | 0.630647702 | CCDC149,LGI2 |
| 6 | 46,125,000 | 46,275,000 | 616 | 361 | 0.819526557 | LGI2,SEPSECS |
| 6 | 46,200,000 | 46,350,000 | 617 | 454 | 0.742028784 | SEPSECS |
| 6 | 46,275,000 | 46,425,000 | 618 | 407 | 0.908260214 | PI4K2B,SEPSECS,ZCCHC4 |
| 6 | 46,350,000 | 46,500,000 | 619 | 595 | -0.479550476 | ANAPC4,PI4K2B,ZCCHC4 |
| 6 | 46,425,000 | 46,575,000 | 620 | 1030 | -0.533155576 | ANAPC4,ZCCHC4 |
| 6 | 46,500,000 | 46,650,000 | 621 | 1064 | 0.310020303 | ANAPC4 |
| 6 | 46,575,000 | 46,725,000 | 622 | 800 | 0.522131236 | SLC34A2 |
| 6 | 46,650,000 | 46,800,000 | 623 | 941 | 0.922795594 | SEL1L3,SLC34A2 |
| 6 | 46,725,000 | 46,875,000 | 624 | 1032 | 0.411754016 | SEL1L3,SLC34A2 |
| 6 | 46,800,000 | 46,950,000 | 625 | 1037 | -0.783692467 | SEL1L3 |
| 6 | 46,875,000 | 47,025,000 | 626 | 999 | -1.079712362 | SEL1L3,SMIM20 |
| 6 | 46,950,000 | 47,100,000 | 627 | 710 | -0.986209113 | SMIM20 |
| 6 | 47,025,000 | 47,175,000 | 628 | 456 | 0.027761288 | |
| 6 | 47,100,000 | 47,250,000 | 629 | 370 | 0.965663366 | |
| 6 | 47,175,000 | 47,325,000 | 630 | 283 | 0.759799342 | RBPJ |
| 6 | 47,250,000 | 47,400,000 | 631 | 151 | 0.566046836 | RBPJ |
| 6 | 47,325,000 | 47,475,000 | 632 | 175 | 1.066808813 | CCKAR,RBPJ |
| 6 | 47,400,000 | 47,550,000 | 633 | 333 | -0.14660772 | CCKAR,RBPJ |
| 6 | 47,475,000 | 47,625,000 | 634 | 431 | -0.227830899 | CCKAR,TBC1D19 |
| 6 | 47,550,000 | 47,700,000 | 635 | 623 | -0.145442831 | TBC1D19 |
| 6 | 47,625,000 | 47,775,000 | 636 | 765 | 0.114564131 | TBC1D19 |
| 6 | 47,700,000 | 47,850,000 | 637 | 491 | 0.620496633 | TBC1D19 |
| 6 | 47,775,000 | 47,925,000 | 638 | 568 | 0.759113841 | |
| 6 | 47,850,000 | 48,000,000 | 639 | 561 | 0.921133906 | STIM2 |
| 6 | 47,925,000 | 48,075,000 | 640 | 407 | 0.135312977 | STIM2 |
| 6 | 48,000,000 | 48,150,000 | 641 | 536 | 0.510637253 | STIM2 |
| 6 | 48,075,000 | 48,225,000 | 642 | 712 | 1.016882253 | |
| 6 | 48,150,000 | 48,300,000 | 643 | 1092 | 0.737626865 | |
| 6 | 48,225,000 | 48,375,000 | 644 | 1083 | 0.323025158 | |
| 6 | 48,300,000 | 48,450,000 | 645 | 1044 | 0.358772337 | |
| 6 | 48,375,000 | 48,525,000 | 646 | 1155 | 0.060476927 | ENSBTAG00000045570 |
| 6 | 48,450,000 | 48,600,000 | 647 | 1271 | -0.033827601 | ENSBTAG00000045570 |
| 6 | 48,525,000 | 48,675,000 | 648 | 1310 | 0.25890417 | |
| 6 | 48,600,000 | 48,750,000 | 649 | 1114 | 0.083333633 | |
| 6 | 48,675,000 | 48,825,000 | 650 | 1223 | -0.834326329 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------|
| 6 | 48,750,000 | 48,900,000 | 651 | 1223 | -0.925784996 | |
| 6 | 48,825,000 | 48,975,000 | 652 | 998 | 0.346437765 | |
| 6 | 48,900,000 | 49,050,000 | 653 | 776 | 0.206745189 | |
| 6 | 48,975,000 | 49,125,000 | 654 | 628 | 0.071797166 | |
| 6 | 49,050,000 | 49,200,000 | 655 | 994 | 0.129705679 | |
| 6 | 49,125,000 | 49,275,000 | 656 | 1173 | -0.281593109 | |
| 6 | 49,200,000 | 49,350,000 | 657 | 1253 | -0.291672125 | |
| 6 | 49,275,000 | 49,425,000 | 658 | 1249 | -0.394837754 | |
| 6 | 49,350,000 | 49,500,000 | 659 | 855 | -0.98922106 | |
| 6 | 49,425,000 | 49,575,000 | 660 | 782 | -1.488501563 | |
| 6 | 49,500,000 | 49,650,000 | 661 | 987 | -1.333949091 | |
| 6 | 49,575,000 | 49,725,000 | 662 | 858 | -0.761610955 | |
| 6 | 49,650,000 | 49,800,000 | 663 | 585 | -2.222419498 | |
| 6 | 49,725,000 | 49,875,000 | 664 | 765 | -3.413281292 | |
| 6 | 49,800,000 | 49,950,000 | 665 | 862 | -1.048406689 | |
| 6 | 49,875,000 | 50,025,000 | 666 | 705 | 0.650801012 | |
| 6 | 49,950,000 | 50,100,000 | 667 | 538 | 0.837129178 | |
| 6 | 50,025,000 | 50,175,000 | 668 | 592 | 1.186726222 | |
| 6 | 50,100,000 | 50,250,000 | 669 | 673 | 0.812448346 | |
| 6 | 50,175,000 | 50,325,000 | 670 | 955 | 0.090381015 | |
| 6 | 50,250,000 | 50,400,000 | 671 | 1342 | 0.689813435 | |
| 6 | 50,325,000 | 50,475,000 | 672 | 1127 | 1.013241228 | |
| 6 | 50,400,000 | 50,550,000 | 673 | 963 | 0.475753135 | |
| 6 | 50,475,000 | 50,625,000 | 674 | 984 | 0.673385903 | |
| 6 | 50,550,000 | 50,700,000 | 675 | 925 | 0.576003287 | |
| 6 | 50,625,000 | 50,775,000 | 676 | 1007 | 0.380625723 | |
| 6 | 50,700,000 | 50,850,000 | 677 | 945 | 0.568230467 | |
| 6 | 50,775,000 | 50,925,000 | 678 | 1110 | 0.057785841 | |
| 6 | 50,850,000 | 51,000,000 | 679 | 1428 | -0.779308507 | |
| 6 | 50,925,000 | 51,075,000 | 680 | 1496 | -0.992001539 | |
| 6 | 51,000,000 | 51,150,000 | 681 | 1282 | 0.025763894 | |
| 6 | 51,075,000 | 51,225,000 | 682 | 727 | 0.542860565 | |
| 6 | 51,150,000 | 51,300,000 | 683 | 845 | 0.712204116 | |
| 6 | 51,225,000 | 51,375,000 | 684 | 1245 | 0.723312538 | |
| 6 | 51,300,000 | 51,450,000 | 685 | 1223 | 0.783347133 | |
| 6 | 51,375,000 | 51,525,000 | 686 | 1094 | 0.59030141 | |
| 6 | 51,450,000 | 51,600,000 | 687 | 878 | 0.694884943 | PCDH7 |
| 6 | 51,525,000 | 51,675,000 | 688 | 796 | 0.884334298 | PCDH7 |
| 6 | 51,600,000 | 51,750,000 | 689 | 759 | -0.238207047 | PCDH7 |
| 6 | 51,675,000 | 51,825,000 | 690 | 614 | -1.074483431 | PCDH7 |
| 6 | 51,750,000 | 51,900,000 | 691 | 663 | -0.473759902 | PCDH7 |
| 6 | 51,825,000 | 51,975,000 | 692 | 926 | 0.108617298 | PCDH7 |
| 6 | 51,900,000 | 52,050,000 | 693 | 868 | 0.083741631 | PCDH7 |
| 6 | 51,975,000 | 52,125,000 | 694 | 633 | -1.498876397 | PCDH7 |
| 6 | 52,050,000 | 52,200,000 | 695 | 721 | -1.642986598 | |
| 6 | 52,125,000 | 52,275,000 | 696 | 695 | -0.91432842 | |
| 6 | 52,200,000 | 52,350,000 | 697 | 696 | -1.564924936 | |
| 6 | 52,275,000 | 52,425,000 | 698 | 820 | -1.827212985 | |
| 6 | 52,350,000 | 52,500,000 | 699 | 535 | -1.185197421 | |
| 6 | 52,425,000 | 52,575,000 | 700 | 367 | -0.392888016 | |
| 6 | 52,500,000 | 52,650,000 | 701 | 398 | 0.256472054 | |
| 6 | 52,575,000 | 52,725,000 | 702 | 450 | 1.168089185 | |
| 6 | 52,650,000 | 52,800,000 | 703 | 523 | 0.772744032 | |

| | | | | | |
|---|------------|------------|-----|------|--------------|
| 6 | 52,725,000 | 52,875,000 | 704 | 548 | 0.057597286 |
| 6 | 52,800,000 | 52,950,000 | 705 | 815 | -0.794220014 |
| 6 | 52,875,000 | 53,025,000 | 706 | 836 | -0.851336421 |
| 6 | 52,950,000 | 53,100,000 | 707 | 602 | -0.011552653 |
| 6 | 53,025,000 | 53,175,000 | 708 | 1049 | 0.42689697 |
| 6 | 53,100,000 | 53,250,000 | 709 | 1112 | 0.513372 |
| 6 | 53,175,000 | 53,325,000 | 710 | 774 | -0.397590731 |
| 6 | 53,250,000 | 53,400,000 | 711 | 1128 | 0.396151147 |
| 6 | 53,325,000 | 53,475,000 | 712 | 973 | 0.244597647 |
| 6 | 53,400,000 | 53,550,000 | 713 | 747 | -0.562230263 |
| 6 | 53,475,000 | 53,625,000 | 714 | 677 | 0.302650712 |
| 6 | 53,550,000 | 53,700,000 | 715 | 426 | 0.851284534 |
| 6 | 53,625,000 | 53,775,000 | 716 | 354 | 0.355615491 |
| 6 | 53,700,000 | 53,850,000 | 717 | 740 | -0.541922823 |
| 6 | 53,775,000 | 53,925,000 | 718 | 1243 | -1.428011044 |
| 6 | 53,850,000 | 54,000,000 | 719 | 1515 | -0.788782189 |
| 6 | 53,925,000 | 54,075,000 | 720 | 1343 | -0.517745351 |
| 6 | 54,000,000 | 54,150,000 | 721 | 726 | -2.23274457 |
| 6 | 54,075,000 | 54,225,000 | 722 | 731 | -1.14774926 |
| 6 | 54,150,000 | 54,300,000 | 723 | 1089 | -0.266653428 |
| 6 | 54,225,000 | 54,375,000 | 724 | 750 | 0.133889264 |
| 6 | 54,300,000 | 54,450,000 | 725 | 290 | -0.64511772 |
| 6 | 54,375,000 | 54,525,000 | 726 | 785 | -1.040407659 |
| 6 | 54,450,000 | 54,600,000 | 727 | 1288 | -1.155432343 |
| 6 | 54,525,000 | 54,675,000 | 728 | 1019 | -0.316820527 |
| 6 | 54,600,000 | 54,750,000 | 729 | 784 | -0.082378588 |
| 6 | 54,675,000 | 54,825,000 | 730 | 894 | -1.030658373 |
| 6 | 54,750,000 | 54,900,000 | 731 | 740 | -0.518557118 |
| 6 | 54,825,000 | 54,975,000 | 732 | 952 | 0.506238343 |
| 6 | 54,900,000 | 55,050,000 | 733 | 1059 | 0.823432527 |
| 6 | 54,975,000 | 55,125,000 | 734 | 859 | 0.848118796 |
| 6 | 55,050,000 | 55,200,000 | 735 | 870 | 0.805149443 |
| 6 | 55,125,000 | 55,275,000 | 736 | 968 | 0.940970986 |
| 6 | 55,200,000 | 55,350,000 | 737 | 939 | 1.006262013 |
| 6 | 55,275,000 | 55,425,000 | 738 | 928 | 0.873616529 |
| 6 | 55,350,000 | 55,500,000 | 739 | 906 | 0.717616282 |
| 6 | 55,425,000 | 55,575,000 | 740 | 811 | 0.402423772 |
| 6 | 55,500,000 | 55,650,000 | 741 | 814 | 0.461684064 |
| 6 | 55,575,000 | 55,725,000 | 742 | 488 | 0.924042798 |
| 6 | 55,650,000 | 55,800,000 | 743 | 326 | 1.164541356 |
| 6 | 55,725,000 | 55,875,000 | 744 | 588 | 0.943877624 |
| 6 | 55,800,000 | 55,950,000 | 745 | 747 | 1.047518992 |
| 6 | 55,875,000 | 56,025,000 | 746 | 959 | 0.819652704 |
| 6 | 55,950,000 | 56,100,000 | 747 | 1359 | 0.219747609 |
| 6 | 56,025,000 | 56,175,000 | 748 | 1579 | 0.408049085 |
| 6 | 56,100,000 | 56,250,000 | 749 | 1578 | 0.383153486 |
| 6 | 56,175,000 | 56,325,000 | 750 | 1533 | -0.907367623 |
| 6 | 56,250,000 | 56,400,000 | 751 | 1616 | -1.22460378 |
| 6 | 56,325,000 | 56,475,000 | 752 | 1658 | 0.174600052 |
| 6 | 56,400,000 | 56,550,000 | 753 | 1901 | 0.302076557 |
| 6 | 56,475,000 | 56,625,000 | 754 | 1868 | 0.153629313 |
| 6 | 56,550,000 | 56,700,000 | 755 | 1410 | -0.301480825 |
| 6 | 56,625,000 | 56,775,000 | 756 | 1219 | -2.525402645 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 6 | 56,700,000 | 56,850,000 | 757 | 963 | -3.056260233 | |
| 6 | 56,775,000 | 56,925,000 | 758 | 1137 | -0.89510865 | |
| 6 | 56,850,000 | 57,000,000 | 759 | 1425 | 0.752847398 | |
| 6 | 56,925,000 | 57,075,000 | 760 | 1051 | 1.325185829 | ARAP2 |
| 6 | 57,000,000 | 57,150,000 | 761 | 885 | 1.352812237 | ARAP2 |
| 6 | 57,075,000 | 57,225,000 | 762 | 1153 | 1.146936516 | ARAP2 |
| 6 | 57,150,000 | 57,300,000 | 763 | 1036 | 0.665732739 | ARAP2 |
| 6 | 57,225,000 | 57,375,000 | 764 | 895 | 0.651884888 | ARAP2,DTHD1 |
| 6 | 57,300,000 | 57,450,000 | 765 | 804 | 0.985247379 | DTHD1 |
| 6 | 57,375,000 | 57,525,000 | 766 | 498 | 1.076232068 | DTHD1 |
| 6 | 57,450,000 | 57,600,000 | 767 | 629 | 0.450413523 | |
| 6 | 57,525,000 | 57,675,000 | 768 | 817 | -0.753695164 | |
| 6 | 57,600,000 | 57,750,000 | 769 | 601 | -1.135044997 | |
| 6 | 57,675,000 | 57,825,000 | 770 | 374 | 0.880833567 | |
| 6 | 57,750,000 | 57,900,000 | 771 | 594 | 1.279135342 | |
| 6 | 57,825,000 | 57,975,000 | 772 | 960 | 1.167864575 | |
| 6 | 57,900,000 | 58,050,000 | 773 | 1046 | 0.559338446 | |
| 6 | 57,975,000 | 58,125,000 | 774 | 1041 | -0.02259249 | ENSBTAG00000039222 |
| 6 | 58,050,000 | 58,200,000 | 775 | 1191 | -0.290130819 | ENSBTAG00000039222 |
| 6 | 58,125,000 | 58,275,000 | 776 | 1123 | 0.211861795 | |
| 6 | 58,200,000 | 58,350,000 | 777 | 1016 | 1.165157493 | |
| 6 | 58,275,000 | 58,425,000 | 778 | 907 | 1.079724254 | |
| 6 | 58,350,000 | 58,500,000 | 779 | 619 | 0.452254897 | C4orf19,NWD2 |
| 6 | 58,425,000 | 58,575,000 | 780 | 514 | 0.491464591 | C4orf19,NWD2 |
| 6 | 58,500,000 | 58,650,000 | 781 | 619 | 0.429542548 | C4orf19,RELL1 |
| 6 | 58,575,000 | 58,725,000 | 782 | 658 | 0.628953338 | RELL1 |
| 6 | 58,650,000 | 58,800,000 | 783 | 645 | 0.834794763 | PGM2,RELL1 |
| 6 | 58,725,000 | 58,875,000 | 784 | 777 | 0.86630132 | PGM2,TBC1D1 |
| 6 | 58,800,000 | 58,950,000 | 785 | 713 | -1.173885754 | PGM2,TBC1D1 |
| 6 | 58,875,000 | 59,025,000 | 786 | 412 | -1.954756896 | TBC1D1 |
| 6 | 58,950,000 | 59,100,000 | 787 | 251 | 0.234538785 | TBC1D1 |
| 6 | 59,025,000 | 59,175,000 | 788 | 173 | 0.556631653 | TBC1D1 |
| 6 | 59,100,000 | 59,250,000 | 789 | 206 | -0.085047904 | |
| 6 | 59,175,000 | 59,325,000 | 790 | 284 | 0.084131789 | |
| 6 | 59,250,000 | 59,400,000 | 791 | 285 | 0.859655328 | |
| 6 | 59,325,000 | 59,475,000 | 792 | 405 | 1.32752708 | |
| 6 | 59,400,000 | 59,550,000 | 793 | 372 | 1.28610593 | |
| 6 | 59,475,000 | 59,625,000 | 794 | 390 | 0.484404112 | KLF3 |
| 6 | 59,550,000 | 59,700,000 | 795 | 675 | 0.727493992 | KLF3,TLR10,TLR6 |
| 6 | 59,625,000 | 59,775,000 | 796 | 838 | 0.950582356 | FAM114A1,TLR10,TLR6 |
| 6 | 59,700,000 | 59,850,000 | 797 | 652 | 0.593685244 | FAM114A1,TLR6,TMEM156 |
| 6 | 59,775,000 | 59,925,000 | 798 | 342 | 0.045813721 | FAM114A1,KLHL5,TMEM156 |
| 6 | 59,850,000 | 60,000,000 | 799 | 627 | 0.732841733 | KLHL5,TMEM156,WDR19 |
| 6 | 59,925,000 | 60,075,000 | 800 | 869 | 0.709334459 | KLHL5,RFC1,WDR19 |
| 6 | 60,000,000 | 60,150,000 | 801 | 542 | -0.107276732 | RFC1,WDR19 |
| 6 | 60,075,000 | 60,225,000 | 802 | 389 | -0.116417518 | KLB,LIAS,RFC1,RPL9 |
| 6 | 60,150,000 | 60,300,000 | 803 | 590 | 0.278753015 | KLB,LIAS,RPL9,SMIM14,UGDH |
| 6 | 60,225,000 | 60,375,000 | 804 | 599 | 0.613880507 | LIAS,SMIM14,UGDH |
| 6 | 60,300,000 | 60,450,000 | 805 | 361 | 0.848903533 | SMIM14,UBE2K |
| 6 | 60,375,000 | 60,525,000 | 806 | 247 | 0.464517766 | UBE2K |
| 6 | 60,450,000 | 60,600,000 | 807 | 197 | 0.568057526 | PDS5A,UBE2K |
| 6 | 60,525,000 | 60,675,000 | 808 | 162 | 1.082290681 | PDS5A |
| 6 | 60,600,000 | 60,750,000 | 809 | 349 | 0.939878105 | PDS5A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 6 | 60,675,000 | 60,825,000 | 810 | 525 | 0.761057053 | N4BP2 |
| 6 | 60,750,000 | 60,900,000 | 811 | 567 | 0.141138958 | N4BP2,RHOH |
| 6 | 60,825,000 | 60,975,000 | 812 | 544 | 0.419617601 | CHRNA9,RHOH |
| 6 | 60,900,000 | 61,050,000 | 813 | 497 | 0.447634521 | CHRNA9,DKFZP686F02235 |
| 6 | 60,975,000 | 61,125,000 | 814 | 401 | -0.335358828 | CHRNA9,DKFZP686F02235 |
| 6 | 61,050,000 | 61,200,000 | 815 | 404 | -0.1831373 | DKFZP686F02235 |
| 6 | 61,125,000 | 61,275,000 | 816 | 589 | 0.064265056 | |
| 6 | 61,200,000 | 61,350,000 | 817 | 570 | 0.284423536 | NSUN7 |
| 6 | 61,275,000 | 61,425,000 | 818 | 692 | 0.509433269 | APBB2,NSUN7 |
| 6 | 61,350,000 | 61,500,000 | 819 | 917 | 0.274550448 | APBB2,NSUN7 |
| 6 | 61,425,000 | 61,575,000 | 820 | 1005 | 0.51618139 | APBB2 |
| 6 | 61,500,000 | 61,650,000 | 821 | 675 | 0.928009183 | APBB2 |
| 6 | 61,575,000 | 61,725,000 | 822 | 265 | 0.662159544 | APBB2 |
| 6 | 61,650,000 | 61,800,000 | 823 | 362 | 0.392833869 | APBB2,UCHL1 |
| 6 | 61,725,000 | 61,875,000 | 824 | 845 | 0.193070933 | APBB2,LIMCH1,UCHL1 |
| 6 | 61,800,000 | 61,950,000 | 825 | 859 | 0.317293602 | LIMCH1,UCHL1 |
| 6 | 61,875,000 | 62,025,000 | 826 | 508 | 0.833344035 | LIMCH1 |
| 6 | 61,950,000 | 62,100,000 | 827 | 523 | 0.838175536 | LIMCH1 |
| 6 | 62,025,000 | 62,175,000 | 828 | 569 | -0.305498088 | LIMCH1 |
| 6 | 62,100,000 | 62,250,000 | 829 | 789 | 0.60036749 | LIMCH1 |
| 6 | 62,175,000 | 62,325,000 | 830 | 803 | 0.911748012 | LIMCH1,PHOX2B |
| 6 | 62,250,000 | 62,400,000 | 831 | 502 | -0.778601708 | PHOX2B |
| 6 | 62,325,000 | 62,475,000 | 832 | 592 | -3.069006114 | TMEM33 |
| 6 | 62,400,000 | 62,550,000 | 833 | 542 | -2.97284299 | SLC30A9,TMEM33 |
| 6 | 62,475,000 | 62,625,000 | 834 | 352 | -3.863467466 | SLC30A9,TMEM33 |
| 6 | 62,550,000 | 62,700,000 | 835 | 354 | -4.175276469 | BEND4,SLC30A9 |
| 6 | 62,625,000 | 62,775,000 | 836 | 343 | -1.712034111 | BEND4 |
| 6 | 62,700,000 | 62,850,000 | 837 | 446 | -1.136395636 | |
| 6 | 62,775,000 | 62,925,000 | 838 | 446 | -0.520117639 | ATP8A1,SHISA3 |
| 6 | 62,850,000 | 63,000,000 | 839 | 368 | 0.846901869 | ATP8A1,SHISA3 |
| 6 | 62,925,000 | 63,075,000 | 840 | 836 | 1.072223041 | ATP8A1 |
| 6 | 63,000,000 | 63,150,000 | 841 | 865 | 1.072936431 | ATP8A1 |
| 6 | 63,075,000 | 63,225,000 | 842 | 537 | 0.993651775 | ATP8A1 |
| 6 | 63,150,000 | 63,300,000 | 843 | 736 | 0.454514348 | |
| 6 | 63,225,000 | 63,375,000 | 844 | 609 | -0.411624643 | GRXCR1 |
| 6 | 63,300,000 | 63,450,000 | 845 | 636 | -0.424083328 | GRXCR1 |
| 6 | 63,375,000 | 63,525,000 | 846 | 821 | 0.454977863 | GRXCR1 |
| 6 | 63,450,000 | 63,600,000 | 847 | 691 | 0.875012847 | GRXCR1 |
| 6 | 63,525,000 | 63,675,000 | 848 | 804 | 0.66102803 | |
| 6 | 63,600,000 | 63,750,000 | 849 | 788 | 0.638890654 | |
| 6 | 63,675,000 | 63,825,000 | 850 | 559 | 1.182715405 | |
| 6 | 63,750,000 | 63,900,000 | 851 | 532 | 1.316638147 | |
| 6 | 63,825,000 | 63,975,000 | 852 | 847 | 1.119664646 | |
| 6 | 63,900,000 | 64,050,000 | 853 | 965 | 0.872626872 | |
| 6 | 63,975,000 | 64,125,000 | 854 | 991 | 0.203248339 | |
| 6 | 64,050,000 | 64,200,000 | 855 | 935 | 0.127277429 | |
| 6 | 64,125,000 | 64,275,000 | 856 | 789 | 0.314608133 | |
| 6 | 64,200,000 | 64,350,000 | 857 | 1006 | -0.673806053 | |
| 6 | 64,275,000 | 64,425,000 | 858 | 706 | -1.265702999 | |
| 6 | 64,350,000 | 64,500,000 | 859 | 544 | -0.384985745 | |
| 6 | 64,425,000 | 64,575,000 | 860 | 1008 | -0.212056428 | |
| 6 | 64,500,000 | 64,650,000 | 861 | 1429 | 0.751407966 | |
| 6 | 64,575,000 | 64,725,000 | 862 | 1430 | 0.870190723 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------|
| 6 | 64,650,000 | 64,800,000 | 863 | 1238 | 0.159362853 | KCTD8 |
| 6 | 64,725,000 | 64,875,000 | 864 | 796 | 0.052611155 | KCTD8 |
| 6 | 64,800,000 | 64,950,000 | 865 | 444 | 0.522137737 | GUF1,YIPF7 |
| 6 | 64,875,000 | 65,025,000 | 866 | 398 | 0.668910787 | GNPDA2,GUF1,YIPF7 |
| 6 | 64,950,000 | 65,100,000 | 867 | 436 | 0.313419857 | GNPDA2,GUF1 |
| 6 | 65,025,000 | 65,175,000 | 868 | 854 | -0.209680667 | |
| 6 | 65,100,000 | 65,250,000 | 869 | 1033 | -0.069975204 | |
| 6 | 65,175,000 | 65,325,000 | 870 | 619 | 0.030195404 | |
| 6 | 65,250,000 | 65,400,000 | 871 | 626 | -0.409764027 | |
| 6 | 65,325,000 | 65,475,000 | 872 | 628 | -0.332415746 | |
| 6 | 65,400,000 | 65,550,000 | 873 | 782 | -0.206724864 | |
| 6 | 65,475,000 | 65,625,000 | 874 | 850 | -0.009698051 | |
| 6 | 65,550,000 | 65,700,000 | 875 | 607 | -0.176214415 | |
| 6 | 65,625,000 | 65,775,000 | 876 | 946 | -0.241606604 | |
| 6 | 65,700,000 | 65,850,000 | 877 | 931 | -0.411250108 | |
| 6 | 65,775,000 | 65,925,000 | 878 | 996 | -0.650136437 | |
| 6 | 65,850,000 | 66,000,000 | 879 | 934 | -0.317078859 | |
| 6 | 65,925,000 | 66,075,000 | 880 | 784 | 0.197780416 | |
| 6 | 66,000,000 | 66,150,000 | 881 | 654 | -0.17080865 | |
| 6 | 66,075,000 | 66,225,000 | 882 | 441 | -1.582738984 | |
| 6 | 66,150,000 | 66,300,000 | 883 | 746 | -0.993831668 | GABRG1 |
| 6 | 66,225,000 | 66,375,000 | 884 | 992 | -0.586916836 | GABRG1 |
| 6 | 66,300,000 | 66,450,000 | 885 | 1032 | -0.098040166 | GABRG1 |
| 6 | 66,375,000 | 66,525,000 | 886 | 864 | -0.140455755 | GABRA2 |
| 6 | 66,450,000 | 66,600,000 | 887 | 723 | -0.441351384 | GABRA2 |
| 6 | 66,525,000 | 66,675,000 | 888 | 648 | 0.437998733 | GABRA2 |
| 6 | 66,600,000 | 66,750,000 | 889 | 445 | 1.157346926 | GABRA2 |
| 6 | 66,675,000 | 66,825,000 | 890 | 560 | -1.298197972 | |
| 6 | 66,750,000 | 66,900,000 | 891 | 747 | -2.464967658 | |
| 6 | 66,825,000 | 66,975,000 | 892 | 506 | -1.427477697 | |
| 6 | 66,900,000 | 67,050,000 | 893 | 435 | -0.045847255 | |
| 6 | 66,975,000 | 67,125,000 | 894 | 571 | -0.668799955 | HIST1H4G |
| 6 | 67,050,000 | 67,200,000 | 895 | 553 | -0.480008775 | GABRA4,HIST1H4G |
| 6 | 67,125,000 | 67,275,000 | 896 | 556 | -0.268561181 | GABRA4,GABRB1 |
| 6 | 67,200,000 | 67,350,000 | 897 | 643 | -0.069376817 | GABRA4,GABRB1 |
| 6 | 67,275,000 | 67,425,000 | 898 | 511 | 0.396593637 | GABRB1 |
| 6 | 67,350,000 | 67,500,000 | 899 | 305 | -0.125296707 | GABRB1 |
| 6 | 67,425,000 | 67,575,000 | 900 | 560 | 0.346876173 | GABRB1 |
| 6 | 67,500,000 | 67,650,000 | 901 | 772 | 0.854367209 | GABRB1 |
| 6 | 67,575,000 | 67,725,000 | 902 | 622 | 0.906532645 | GABRB1 |
| 6 | 67,650,000 | 67,800,000 | 903 | 609 | 0.009614114 | ATP10D,COMMD8,GABRB1 |
| 6 | 67,725,000 | 67,875,000 | 904 | 604 | -3.474722656 | ATP10D,COMMD8 |
| 6 | 67,800,000 | 67,950,000 | 905 | 416 | -3.178967929 | ATP10D,CORIN |
| 6 | 67,875,000 | 68,025,000 | 906 | 368 | -1.303568621 | ATP10D,CORIN |
| 6 | 67,950,000 | 68,100,000 | 907 | 296 | -1.441790537 | CORIN |
| 6 | 68,025,000 | 68,175,000 | 908 | 331 | 0.471895499 | CORIN |
| 6 | 68,100,000 | 68,250,000 | 909 | 485 | 0.105371878 | CORIN,NFXL1 |
| 6 | 68,175,000 | 68,325,000 | 910 | 422 | 0.402588557 | CNGA1,CORIN,NFXL1 |
| 6 | 68,250,000 | 68,400,000 | 911 | 587 | 1.326945038 | CNGA1,NFXL1,NIPAL1 |
| 6 | 68,325,000 | 68,475,000 | 912 | 653 | 0.529799349 | CNGA1,NIPAL1,TEC,TXK |
| 6 | 68,400,000 | 68,550,000 | 913 | 677 | -0.414165093 | TEC,TXK |
| 6 | 68,475,000 | 68,625,000 | 914 | 1053 | 0.660808575 | TEC |
| 6 | 68,550,000 | 68,700,000 | 915 | 986 | -0.231586567 | SLAIN2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 68,625,000 | 68,775,000 | 916 | 459 | -2.829417563 | SLAIN2 |
| 6 | 68,700,000 | 68,850,000 | 917 | 172 | -2.099887519 | FRYL,SLAIN2,SLC10A4,ZAR1 |
| 6 | 68,775,000 | 68,925,000 | 918 | 217 | -1.026689768 | FRYL,SLC10A4,ZAR1 |
| 6 | 68,850,000 | 69,000,000 | 919 | 288 | -0.072663697 | FRYL |
| 6 | 68,925,000 | 69,075,000 | 920 | 463 | 0.984938673 | FRYL |
| 6 | 69,000,000 | 69,150,000 | 921 | 541 | 0.88399343 | OCIAD1 |
| 6 | 69,075,000 | 69,225,000 | 922 | 582 | 0.185571044 | OCIAD1,OCIAD2 |
| 6 | 69,150,000 | 69,300,000 | 923 | 922 | 0.317662825 | CWH43,OCIAD1,OCIAD2 |
| 6 | 69,225,000 | 69,375,000 | 924 | 942 | 0.206416533 | CWH43,DCUN1D4 |
| 6 | 69,300,000 | 69,450,000 | 925 | 608 | -0.059543788 | CWH43,DCUN1D4 |
| 6 | 69,375,000 | 69,525,000 | 926 | 567 | 0.403550236 | DCUN1D4,LRRC66 |
| 6 | 69,450,000 | 69,600,000 | 927 | 526 | 0.180871011 | LRRC66,SGCB,SPATA18 |
| 6 | 69,525,000 | 69,675,000 | 928 | 473 | -1.811033543 | SGCB,SPATA18 |
| 6 | 69,600,000 | 69,750,000 | 929 | 423 | -2.250438208 | SPATA18 |
| 6 | 69,675,000 | 69,825,000 | 930 | 543 | 0.039326165 | |
| 6 | 69,750,000 | 69,900,000 | 931 | 992 | 0.2231768 | |
| 6 | 69,825,000 | 69,975,000 | 932 | 821 | 0.443747119 | USP46 |
| 6 | 69,900,000 | 70,050,000 | 933 | 407 | 0.292438988 | USP46 |
| 6 | 69,975,000 | 70,125,000 | 934 | 867 | -2.115079382 | USP46 |
| 6 | 70,050,000 | 70,200,000 | 935 | 946 | -1.936156182 | RASL11B,SCFD2 |
| 6 | 70,125,000 | 70,275,000 | 936 | 816 | -0.651992218 | RASL11B,SCFD2 |
| 6 | 70,200,000 | 70,350,000 | 937 | 1081 | -0.917111543 | SCFD2 |
| 6 | 70,275,000 | 70,425,000 | 938 | 920 | -0.797455531 | SCFD2 |
| 6 | 70,350,000 | 70,500,000 | 939 | 707 | -0.65519636 | SCFD2 |
| 6 | 70,425,000 | 70,575,000 | 940 | 579 | -0.831570314 | SCFD2 |
| 6 | 70,500,000 | 70,650,000 | 941 | 631 | -0.306114951 | FIP1L1,SCFD2 |
| 6 | 70,575,000 | 70,725,000 | 942 | 863 | 0.414208372 | FIP1L1,LNX1,SCFD2 |
| 6 | 70,650,000 | 70,800,000 | 943 | 1284 | 1.094550138 | FIP1L1,LNX1 |
| 6 | 70,725,000 | 70,875,000 | 944 | 1386 | 1.253523625 | LNX1 |
| 6 | 70,800,000 | 70,950,000 | 945 | 1237 | 0.898171962 | |
| 6 | 70,875,000 | 71,025,000 | 946 | 1378 | 0.848249355 | |
| 6 | 70,950,000 | 71,100,000 | 947 | 1524 | 1.044593668 | |
| 6 | 71,025,000 | 71,175,000 | 948 | 1392 | 1.016246232 | |
| 6 | 71,100,000 | 71,250,000 | 949 | 1030 | 1.045519128 | CHIC2 |
| 6 | 71,175,000 | 71,325,000 | 950 | 994 | 1.062973243 | CHIC2,GSX2 |
| 6 | 71,250,000 | 71,400,000 | 951 | 1129 | 1.131813492 | GSX2,PDGFRA |
| 6 | 71,325,000 | 71,475,000 | 952 | 1325 | 0.054994636 | PDGFRA |
| 6 | 71,400,000 | 71,550,000 | 953 | 1486 | 0.136765875 | PDGFRA |
| 6 | 71,475,000 | 71,625,000 | 954 | 1464 | 0.584191182 | |
| 6 | 71,550,000 | 71,700,000 | 955 | 1580 | 0.418935546 | |
| 6 | 71,625,000 | 71,775,000 | 956 | 1657 | 0.403346412 | |
| 6 | 71,700,000 | 71,850,000 | 957 | 1182 | 0.344525782 | KIT |
| 6 | 71,775,000 | 71,925,000 | 958 | 984 | 0.454388012 | KIT |
| 6 | 71,850,000 | 72,000,000 | 959 | 879 | 0.471274075 | KIT |
| 6 | 71,925,000 | 72,075,000 | 960 | 625 | 0.442393024 | |
| 6 | 72,000,000 | 72,150,000 | 961 | 790 | 0.588772651 | |
| 6 | 72,075,000 | 72,225,000 | 962 | 719 | 0.904189703 | |
| 6 | 72,150,000 | 72,300,000 | 963 | 582 | 1.011381655 | KDR |
| 6 | 72,225,000 | 72,375,000 | 964 | 483 | 1.165310367 | KDR |
| 6 | 72,300,000 | 72,450,000 | 965 | 834 | 0.765379856 | |
| 6 | 72,375,000 | 72,525,000 | 966 | 1127 | 0.37956604 | SRD5A3,ENSBTAG00000045602 |
| 6 | 72,450,000 | 72,600,000 | 967 | 822 | 0.379117427 | CLOCK,SRD5A3,TMEM165,ENSBTAG00000045602 |
| 6 | 72,525,000 | 72,675,000 | 968 | 601 | 0.445561682 | CLOCK,TMEM165 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 6 | 72,600,000 | 72,750,000 | 969 | 736 | 0.430861904 | CLOCK,NMU,PDCL2 |
| 6 | 72,675,000 | 72,825,000 | 970 | 1075 | 0.275260905 | NMU,PDCL2 |
| 6 | 72,750,000 | 72,900,000 | 971 | 1512 | 0.38788205 | NMU |
| 6 | 72,825,000 | 72,975,000 | 972 | 1688 | 0.738995137 | EXOC1 |
| 6 | 72,900,000 | 73,050,000 | 973 | 1424 | 1.071853189 | CEP135,EXOC1 |
| 6 | 72,975,000 | 73,125,000 | 974 | 1404 | 0.893896199 | CEP135,EXOC1 |
| 6 | 73,050,000 | 73,200,000 | 975 | 1639 | 0.767991903 | CEP135 |
| 6 | 73,125,000 | 73,275,000 | 976 | 1619 | 0.559173371 | |
| 6 | 73,200,000 | 73,350,000 | 977 | 1461 | 0.312164391 | |
| 6 | 73,275,000 | 73,425,000 | 978 | 1105 | 0.324764562 | AASDH,MGC148692 |
| 6 | 73,350,000 | 73,500,000 | 979 | 815 | 0.618000568 | AASDH,MGC148692,PAICS,PPAT |
| 6 | 73,425,000 | 73,575,000 | 980 | 977 | 0.536111219 | AASDH,ARL9,PAICS,PPAT,SRP72 |
| 6 | 73,500,000 | 73,650,000 | 981 | 1340 | -0.314262825 | ARL9,HOP,PAICS,SRP72,ENSBTAG00000002330 |
| 6 | 73,575,000 | 73,725,000 | 982 | 1279 | -0.321972745 | HOP,ENSBTAG00000002330 |
| 6 | 73,650,000 | 73,800,000 | 983 | 1173 | 0.645166178 | SPINK2 |
| 6 | 73,725,000 | 73,875,000 | 984 | 910 | 0.378409343 | MGC157163,SPINK2 |
| 6 | 73,800,000 | 73,950,000 | 985 | 493 | -0.706001833 | MGC157163 |
| 6 | 73,875,000 | 74,025,000 | 986 | 602 | 0.211516785 | NOA1,ENSBTAG00000019359 |
| 6 | 73,950,000 | 74,100,000 | 987 | 932 | 0.436437288 | IGFBP7,NOA1,POLR2B,ENSBTAG00000019359 |
| 6 | 74,025,000 | 74,175,000 | 988 | 925 | 0.363940834 | IGFBP7,NOA1,POLR2B |
| 6 | 74,100,000 | 74,250,000 | 989 | 779 | -0.07352919 | IGFBP7 |
| 6 | 74,175,000 | 74,325,000 | 990 | 965 | -0.057186782 | |
| 6 | 74,250,000 | 74,400,000 | 991 | 1073 | -0.105962217 | |
| 6 | 74,325,000 | 74,475,000 | 992 | 1014 | -0.26285087 | |
| 6 | 74,400,000 | 74,550,000 | 993 | 815 | 0.229314793 | |
| 6 | 74,475,000 | 74,625,000 | 994 | 736 | 0.630909835 | |
| 6 | 74,550,000 | 74,700,000 | 995 | 553 | 0.606564637 | |
| 6 | 74,625,000 | 74,775,000 | 996 | 792 | 0.399191282 | |
| 6 | 74,700,000 | 74,850,000 | 997 | 1367 | 0.874344178 | |
| 6 | 74,775,000 | 74,925,000 | 998 | 1116 | 0.91287036 | |
| 6 | 74,850,000 | 75,000,000 | 999 | 849 | -0.498731819 | |
| 6 | 74,925,000 | 75,075,000 | 1000 | 765 | -0.667311772 | |
| 6 | 75,000,000 | 75,150,000 | 1001 | 900 | -1.172099129 | |
| 6 | 75,075,000 | 75,225,000 | 1002 | 1108 | -1.998305632 | |
| 6 | 75,150,000 | 75,300,000 | 1003 | 812 | -1.872012955 | |
| 6 | 75,225,000 | 75,375,000 | 1004 | 651 | -0.770400285 | |
| 6 | 75,300,000 | 75,450,000 | 1005 | 500 | -1.230002599 | |
| 6 | 75,375,000 | 75,525,000 | 1006 | 470 | -2.18108847 | |
| 6 | 75,450,000 | 75,600,000 | 1007 | 579 | -0.488222414 | |
| 6 | 75,525,000 | 75,675,000 | 1008 | 628 | -1.749486357 | |
| 6 | 75,600,000 | 75,750,000 | 1009 | 552 | -2.425798108 | |
| 6 | 75,675,000 | 75,825,000 | 1010 | 519 | 0.150231163 | |
| 6 | 75,750,000 | 75,900,000 | 1011 | 863 | 0.257988622 | |
| 6 | 75,825,000 | 75,975,000 | 1012 | 1151 | -2.174724148 | |
| 6 | 75,900,000 | 76,050,000 | 1013 | 1043 | -1.261158343 | |
| 6 | 75,975,000 | 76,125,000 | 1014 | 709 | 0.182759808 | |
| 6 | 76,050,000 | 76,200,000 | 1015 | 1144 | 0.398954273 | |
| 6 | 76,125,000 | 76,275,000 | 1016 | 1470 | 0.557014871 | |
| 6 | 76,200,000 | 76,350,000 | 1017 | 1291 | 0.533447667 | |
| 6 | 76,275,000 | 76,425,000 | 1018 | 1041 | 0.360537593 | |
| 6 | 76,350,000 | 76,500,000 | 1019 | 681 | 0.324390228 | |
| 6 | 76,425,000 | 76,575,000 | 1020 | 889 | -1.698830327 | |
| 6 | 76,500,000 | 76,650,000 | 1021 | 896 | -1.56114967 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------|
| 6 | 76,575,000 | 76,725,000 | 1022 | 633 | 0.119158927 | |
| 6 | 76,650,000 | 76,800,000 | 1023 | 578 | 0.049840116 | |
| 6 | 76,725,000 | 76,875,000 | 1024 | 567 | 0.081538975 | |
| 6 | 76,800,000 | 76,950,000 | 1025 | 674 | -1.445625605 | |
| 6 | 76,875,000 | 77,025,000 | 1026 | 844 | -2.258356377 | |
| 6 | 76,950,000 | 77,100,000 | 1027 | 787 | -2.433520191 | |
| 6 | 77,025,000 | 77,175,000 | 1028 | 504 | -3.194601614 | |
| 6 | 77,100,000 | 77,250,000 | 1029 | 515 | -3.412293282 | |
| 6 | 77,175,000 | 77,325,000 | 1030 | 446 | -2.534397247 | |
| 6 | 77,250,000 | 77,400,000 | 1031 | 731 | 0.113004858 | |
| 6 | 77,325,000 | 77,475,000 | 1032 | 1126 | -1.983766333 | |
| 6 | 77,400,000 | 77,550,000 | 1033 | 921 | -3.468125045 | |
| 6 | 77,475,000 | 77,625,000 | 1034 | 835 | -4.000330568 | |
| 6 | 77,550,000 | 77,700,000 | 1035 | 1047 | -3.606344096 | |
| 6 | 77,625,000 | 77,775,000 | 1036 | 836 | -2.988838762 | |
| 6 | 77,700,000 | 77,850,000 | 1037 | 504 | -2.195336935 | |
| 6 | 77,775,000 | 77,925,000 | 1038 | 528 | -1.218161199 | |
| 6 | 77,850,000 | 78,000,000 | 1039 | 675 | 0.374327051 | |
| 6 | 77,925,000 | 78,075,000 | 1040 | 1051 | 1.198744019 | |
| 6 | 78,000,000 | 78,150,000 | 1041 | 980 | 0.778970343 | |
| 6 | 78,075,000 | 78,225,000 | 1042 | 769 | -0.342915437 | |
| 6 | 78,150,000 | 78,300,000 | 1043 | 1099 | -2.263513815 | |
| 6 | 78,225,000 | 78,375,000 | 1044 | 1159 | -2.497633761 | |
| 6 | 78,300,000 | 78,450,000 | 1045 | 669 | -1.021630602 | |
| 6 | 78,375,000 | 78,525,000 | 1046 | 527 | 0.534896946 | |
| 6 | 78,450,000 | 78,600,000 | 1047 | 705 | 0.820279496 | |
| 6 | 78,525,000 | 78,675,000 | 1048 | 671 | 0.834432536 | |
| 6 | 78,600,000 | 78,750,000 | 1049 | 492 | 0.593962804 | |
| 6 | 78,675,000 | 78,825,000 | 1050 | 539 | 0.792534371 | |
| 6 | 78,750,000 | 78,900,000 | 1051 | 481 | 0.526648104 | |
| 6 | 78,825,000 | 78,975,000 | 1052 | 296 | -0.883964261 | |
| 6 | 78,900,000 | 79,050,000 | 1053 | 661 | -0.226907928 | LPHN3 |
| 6 | 78,975,000 | 79,125,000 | 1054 | 716 | 0.530916077 | LPHN3 |
| 6 | 79,050,000 | 79,200,000 | 1055 | 491 | 0.736510849 | LPHN3 |
| 6 | 79,125,000 | 79,275,000 | 1056 | 754 | 0.298326644 | LPHN3 |
| 6 | 79,200,000 | 79,350,000 | 1057 | 738 | -0.030991493 | LPHN3 |
| 6 | 79,275,000 | 79,425,000 | 1058 | 704 | -0.10495088 | LPHN3 |
| 6 | 79,350,000 | 79,500,000 | 1059 | 886 | -1.016126435 | |
| 6 | 79,425,000 | 79,575,000 | 1060 | 876 | -1.529404704 | |
| 6 | 79,500,000 | 79,650,000 | 1061 | 643 | -0.794057769 | |
| 6 | 79,575,000 | 79,725,000 | 1062 | 845 | 0.252846141 | |
| 6 | 79,650,000 | 79,800,000 | 1063 | 1154 | 0.766591177 | |
| 6 | 79,725,000 | 79,875,000 | 1064 | 800 | 0.827993591 | |
| 6 | 79,800,000 | 79,950,000 | 1065 | 517 | 0.279379121 | |
| 6 | 79,875,000 | 80,025,000 | 1066 | 530 | -0.33645608 | |
| 6 | 79,950,000 | 80,100,000 | 1067 | 501 | -0.512110492 | |
| 6 | 80,025,000 | 80,175,000 | 1068 | 954 | 0.988382922 | |
| 6 | 80,100,000 | 80,250,000 | 1069 | 1439 | 1.005867938 | |
| 6 | 80,175,000 | 80,325,000 | 1070 | 1314 | 0.938773562 | |
| 6 | 80,250,000 | 80,400,000 | 1071 | 811 | 0.716405856 | |
| 6 | 80,325,000 | 80,475,000 | 1072 | 494 | -0.589213124 | |
| 6 | 80,400,000 | 80,550,000 | 1073 | 701 | -0.052520372 | |
| 6 | 80,475,000 | 80,625,000 | 1074 | 757 | -0.232907562 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------|
| 6 | 80,550,000 | 80,700,000 | 1075 | 948 | -1.072446197 | |
| 6 | 80,625,000 | 80,775,000 | 1076 | 1372 | -0.608471589 | |
| 6 | 80,700,000 | 80,850,000 | 1077 | 1443 | -0.191561695 | |
| 6 | 80,775,000 | 80,925,000 | 1078 | 1416 | -0.007927127 | |
| 6 | 80,850,000 | 81,000,000 | 1079 | 1361 | -0.413674196 | |
| 6 | 80,925,000 | 81,075,000 | 1080 | 1452 | -0.80855117 | |
| 6 | 81,000,000 | 81,150,000 | 1081 | 2063 | 0.459197803 | |
| 6 | 81,075,000 | 81,225,000 | 1082 | 2012 | 0.666202771 | |
| 6 | 81,150,000 | 81,300,000 | 1083 | 1538 | 0.631523189 | |
| 6 | 81,225,000 | 81,375,000 | 1084 | 1787 | 1.099037823 | |
| 6 | 81,300,000 | 81,450,000 | 1085 | 2039 | 0.45089646 | |
| 6 | 81,375,000 | 81,525,000 | 1086 | 1905 | -1.495400977 | TECRL |
| 6 | 81,450,000 | 81,600,000 | 1087 | 1642 | -2.297475179 | TECRL |
| 6 | 81,525,000 | 81,675,000 | 1088 | 1393 | -2.140153322 | TECRL |
| 6 | 81,600,000 | 81,750,000 | 1089 | 1413 | -3.285946421 | TECRL |
| 6 | 81,675,000 | 81,825,000 | 1090 | 1375 | -3.976158447 | |
| 6 | 81,750,000 | 81,900,000 | 1091 | 1426 | -1.598268015 | |
| 6 | 81,825,000 | 81,975,000 | 1092 | 1500 | -0.452089333 | |
| 6 | 81,900,000 | 82,050,000 | 1093 | 985 | -0.538627704 | |
| 6 | 81,975,000 | 82,125,000 | 1094 | 643 | 0.180353066 | |
| 6 | 82,050,000 | 82,200,000 | 1095 | 566 | 0.607358487 | |
| 6 | 82,125,000 | 82,275,000 | 1096 | 389 | 0.178190375 | |
| 6 | 82,200,000 | 82,350,000 | 1097 | 334 | -0.199936998 | |
| 6 | 82,275,000 | 82,425,000 | 1098 | 356 | -0.219417596 | |
| 6 | 82,350,000 | 82,500,000 | 1099 | 612 | -0.099702871 | |
| 6 | 82,425,000 | 82,575,000 | 1100 | 983 | 0.674297656 | EPHA5 |
| 6 | 82,500,000 | 82,650,000 | 1101 | 963 | 0.989442507 | EPHA5 |
| 6 | 82,575,000 | 82,725,000 | 1102 | 790 | 0.364390727 | EPHA5 |
| 6 | 82,650,000 | 82,800,000 | 1103 | 613 | -0.170316084 | EPHA5 |
| 6 | 82,725,000 | 82,875,000 | 1104 | 459 | 0.218775019 | EPHA5 |
| 6 | 82,800,000 | 82,950,000 | 1105 | 477 | 0.948154386 | EPHA5 |
| 6 | 82,875,000 | 83,025,000 | 1106 | 586 | 1.243483018 | EPHA5 |
| 6 | 82,950,000 | 83,100,000 | 1107 | 906 | 0.774012288 | EPHA5 |
| 6 | 83,025,000 | 83,175,000 | 1108 | 1048 | -1.097090352 | |
| 6 | 83,100,000 | 83,250,000 | 1109 | 896 | -1.05350886 | |
| 6 | 83,175,000 | 83,325,000 | 1110 | 1167 | 0.581387793 | |
| 6 | 83,250,000 | 83,400,000 | 1111 | 1106 | 0.761933094 | |
| 6 | 83,325,000 | 83,475,000 | 1112 | 614 | 0.444326997 | |
| 6 | 83,400,000 | 83,550,000 | 1113 | 642 | -1.461618866 | |
| 6 | 83,475,000 | 83,625,000 | 1114 | 668 | -1.181027401 | |
| 6 | 83,550,000 | 83,700,000 | 1115 | 710 | 0.607631768 | |
| 6 | 83,625,000 | 83,775,000 | 1116 | 792 | 0.598209365 | |
| 6 | 83,700,000 | 83,850,000 | 1117 | 1033 | -1.225613536 | |
| 6 | 83,775,000 | 83,925,000 | 1118 | 1280 | -1.7180384 | |
| 6 | 83,850,000 | 84,000,000 | 1119 | 996 | -1.351309849 | |
| 6 | 83,925,000 | 84,075,000 | 1120 | 1103 | -0.492053514 | |
| 6 | 84,000,000 | 84,150,000 | 1121 | 1227 | 0.304122638 | |
| 6 | 84,075,000 | 84,225,000 | 1122 | 968 | 0.916796411 | |
| 6 | 84,150,000 | 84,300,000 | 1123 | 1012 | -0.410746544 | |
| 6 | 84,225,000 | 84,375,000 | 1124 | 856 | -0.746957449 | |
| 6 | 84,300,000 | 84,450,000 | 1125 | 608 | 0.712354051 | |
| 6 | 84,375,000 | 84,525,000 | 1126 | 578 | 0.824599197 | |
| 6 | 84,450,000 | 84,600,000 | 1127 | 647 | 0.451561051 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 6 | 84,525,000 | 84,675,000 | 1128 | 626 | 0.047346865 | |
| 6 | 84,600,000 | 84,750,000 | 1129 | 780 | 0.085666393 | |
| 6 | 84,675,000 | 84,825,000 | 1130 | 1051 | 0.840450613 | |
| 6 | 84,750,000 | 84,900,000 | 1131 | 1044 | -0.394422288 | |
| 6 | 84,825,000 | 84,975,000 | 1132 | 755 | -1.945323968 | CENPC1 |
| 6 | 84,900,000 | 85,050,000 | 1133 | 523 | 0.057136204 | CENPC1,STAP1 |
| 6 | 84,975,000 | 85,125,000 | 1134 | 553 | 0.326143607 | CENPC1,STAP1,UBA6 |
| 6 | 85,050,000 | 85,200,000 | 1135 | 736 | -0.43159908 | GNRHR,UBA6,ENSBTAG00000038648 |
| 6 | 85,125,000 | 85,275,000 | 1136 | 718 | -0.754956519 | GNRHR,TMPRSS11D,UBA6,ENSBTAG00000038648 |
| 6 | 85,200,000 | 85,350,000 | 1137 | 681 | 0.938530733 | TMPRSS11A,TMPRSS11D,ENSBTAG00000038648 |
| 6 | 85,275,000 | 85,425,000 | 1138 | 567 | 1.136973594 | TMPRSS11A,TMPRSS11D,ENSBTAG00000025920 |
| 6 | 85,350,000 | 85,500,000 | 1139 | 611 | 0.778937622 | TMPRSS11A,TMPRSS11F,ENSBTAG00000025920 |
| 6 | 85,425,000 | 85,575,000 | 1140 | 785 | 0.441140739 | TMPRSS11F,ENSBTAG00000025920 |
| 6 | 85,500,000 | 85,650,000 | 1141 | 556 | -0.530332693 | TMPRSS11F,ENSBTAG00000038520 |
| 6 | 85,575,000 | 85,725,000 | 1142 | 873 | -0.314754798 | ENSBTAG00000038520 |
| 6 | 85,650,000 | 85,800,000 | 1143 | 799 | -0.193821224 | ENSBTAG00000038520 |
| 6 | 85,725,000 | 85,875,000 | 1144 | 373 | -0.398960963 | YTHDC1 |
| 6 | 85,800,000 | 85,950,000 | 1145 | 414 | -1.93263944 | YTHDC1,ENSBTAG00000048013 |
| 6 | 85,875,000 | 86,025,000 | 1146 | 534 | -0.642826472 | YTHDC1,ENSBTAG00000039362,ENSBTAG00000048013 |
| 6 | 85,950,000 | 86,100,000 | 1147 | 745 | 0.744120976 | ENSBTAG00000032350,ENSBTAG00000037613,ENSBTAG0000039362 |
| 6 | 86,025,000 | 86,175,000 | 1148 | 805 | 0.150784474 | ENSBTAG00000032350,ENSBTAG00000037613,ENSBTAG0000039991,ENSBTAG00000040337 |
| 6 | 86,100,000 | 86,250,000 | 1149 | 1027 | 0.416738259 | ENSBTAG00000022205,ENSBTAG00000039991,ENSBTAG0000040337 |
| 6 | 86,175,000 | 86,325,000 | 1150 | 1288 | 1.018084007 | ENSBTAG00000022205,ENSBTAG00000039991 |
| 6 | 86,250,000 | 86,400,000 | 1151 | 1188 | -0.026718496 | ENSBTAG00000003523 |
| 6 | 86,325,000 | 86,475,000 | 1152 | 868 | -0.262202303 | MGC152010,ENSBTAG00000003523 |
| 6 | 86,400,000 | 86,550,000 | 1153 | 739 | 1.039394526 | MGC152010 |
| 6 | 86,475,000 | 86,625,000 | 1154 | 913 | 0.949187533 | |
| 6 | 86,550,000 | 86,700,000 | 1155 | 962 | -0.333715623 | ENSBTAG00000015047 |
| 6 | 86,625,000 | 86,775,000 | 1156 | 1031 | 0.133120373 | ENSBTAG00000015047 |
| 6 | 86,700,000 | 86,850,000 | 1157 | 1327 | 0.910695329 | UGT2A3,ENSBTAG00000015047 |
| 6 | 86,775,000 | 86,925,000 | 1158 | 1109 | 0.991857083 | SULT1B1,UGT2A1,UGT2A3 |
| 6 | 86,850,000 | 87,000,000 | 1159 | 848 | 1.224895304 | SULT1B1,UGT2A1,ENSBTAG00000038214 |
| 6 | 86,925,000 | 87,075,000 | 1160 | 985 | 1.241034247 | SULT1B1,SULT1E1,ENSBTAG00000038214 |
| 6 | 87,000,000 | 87,150,000 | 1161 | 977 | 0.850189479 | CSN1S1,SULT1E1,ENSBTAG00000038214 |
| 6 | 87,075,000 | 87,225,000 | 1162 | 1334 | 0.71557294 | CSN1S1,CSN2,HSTN,SULT1E1 |
| 6 | 87,150,000 | 87,300,000 | 1163 | 1059 | 0.529004807 | CSN1S1,CSN1S2,CSN2,HSTN,STATH |
| 6 | 87,225,000 | 87,375,000 | 1164 | 627 | -0.202937885 | CSN1S2,ODAM,STATH |
| 6 | 87,300,000 | 87,450,000 | 1165 | 954 | -0.619887127 | CSN3,ODAM |
| 6 | 87,375,000 | 87,525,000 | 1166 | 727 | -1.324752887 | CABS1,CSN3,ENSBTAG00000027531 |
| 6 | 87,450,000 | 87,600,000 | 1167 | 795 | 0.200032648 | CABS1,ENSBTAG00000027531 |
| 6 | 87,525,000 | 87,675,000 | 1168 | 1113 | -0.317204735 | AMTN |
| 6 | 87,600,000 | 87,750,000 | 1169 | 920 | -1.254212577 | AMBN,AMTN,ENAM |
| 6 | 87,675,000 | 87,825,000 | 1170 | 570 | -0.755416017 | AMBN,ENAM,IGJ,RUFY3,UTP3 |
| 6 | 87,750,000 | 87,900,000 | 1171 | 342 | -0.15282913 | IGJ,RUFY3,UTP3 |
| 6 | 87,825,000 | 87,975,000 | 1172 | 391 | -0.089572016 | GRSF1,RUFY3 |
| 6 | 87,900,000 | 88,050,000 | 1173 | 484 | -0.385412193 | DCK,GRSF1,MOB1B,RUFY3 |
| 6 | 87,975,000 | 88,125,000 | 1174 | 447 | 0.074242119 | DCK,MOB1B |
| 6 | 88,050,000 | 88,200,000 | 1175 | 357 | 0.640662825 | DCK,SLC4A4 |
| 6 | 88,125,000 | 88,275,000 | 1176 | 411 | 0.399925907 | SLC4A4 |
| 6 | 88,200,000 | 88,350,000 | 1177 | 411 | 0.284407529 | SLC4A4 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 6 | 88,275,000 | 88,425,000 | 1178 | 526 | 0.478853203 | SLC4A4 |
| 6 | 88,350,000 | 88,500,000 | 1179 | 842 | 0.828617502 | SLC4A4 |
| 6 | 88,425,000 | 88,575,000 | 1180 | 755 | 1.047266179 | SLC4A4 |
| 6 | 88,500,000 | 88,650,000 | 1181 | 724 | 0.767198901 | SLC4A4 |
| 6 | 88,575,000 | 88,725,000 | 1182 | 1138 | 0.528265962 | GC |
| 6 | 88,650,000 | 88,800,000 | 1183 | 1360 | 0.146333242 | GC |
| 6 | 88,725,000 | 88,875,000 | 1184 | 1255 | 0.161268305 | GC |
| 6 | 88,800,000 | 88,950,000 | 1185 | 1399 | 0.605485757 | |
| 6 | 88,875,000 | 89,025,000 | 1186 | 1450 | 0.534394798 | |
| 6 | 88,950,000 | 89,100,000 | 1187 | 1112 | 0.496947576 | NPFFR2 |
| 6 | 89,025,000 | 89,175,000 | 1188 | 1033 | -0.901479503 | ADAMTS3,NPFFR2 |
| 6 | 89,100,000 | 89,250,000 | 1189 | 937 | -0.818748056 | ADAMTS3 |
| 6 | 89,175,000 | 89,325,000 | 1190 | 1176 | 0.776914731 | ADAMTS3 |
| 6 | 89,250,000 | 89,400,000 | 1191 | 1476 | 0.831792475 | ADAMTS3 |
| 6 | 89,325,000 | 89,475,000 | 1192 | 1257 | 1.010608766 | ADAMTS3 |
| 6 | 89,400,000 | 89,550,000 | 1193 | 1002 | 0.917561784 | ADAMTS3 |
| 6 | 89,475,000 | 89,625,000 | 1194 | 805 | 0.565950668 | |
| 6 | 89,550,000 | 89,700,000 | 1195 | 722 | -0.220170779 | |
| 6 | 89,625,000 | 89,775,000 | 1196 | 549 | -0.217243924 | |
| 6 | 89,700,000 | 89,850,000 | 1197 | 446 | -0.394607082 | |
| 6 | 89,775,000 | 89,925,000 | 1198 | 451 | -1.012030769 | COX18 |
| 6 | 89,850,000 | 90,000,000 | 1199 | 294 | -0.496926102 | ANKRD17,COX18 |
| 6 | 89,925,000 | 90,075,000 | 1200 | 224 | 0.899673913 | ANKRD17,COX18 |
| 6 | 90,000,000 | 90,150,000 | 1201 | 283 | 1.22066003 | ANKRD17 |
| 6 | 90,075,000 | 90,225,000 | 1202 | 328 | 1.25374966 | ANKRD17 |
| 6 | 90,150,000 | 90,300,000 | 1203 | 403 | 0.515338362 | AFM,AFP,ALB |
| 6 | 90,225,000 | 90,375,000 | 1204 | 774 | 0.491989191 | AFM,AFP,ALB,RASSF6 |
| 6 | 90,300,000 | 90,450,000 | 1205 | 886 | 0.545453791 | AFM,RASSF6 |
| 6 | 90,375,000 | 90,525,000 | 1206 | 573 | 0.331013229 | RASSF6 |
| 6 | 90,450,000 | 90,600,000 | 1207 | 654 | -0.180835692 | CXCL8 |
| 6 | 90,525,000 | 90,675,000 | 1208 | 873 | 0.252201462 | CXCL6,CXCL8,PF4,PPBP,ENSBTAG00000024080 |
| 6 | 90,600,000 | 90,750,000 | 1209 | 853 | 0.804577703 | CXCL6,PF4,PPBP,ENSBTAG00000024080,ENSBTAG00000027513 |
| 6 | 90,675,000 | 90,825,000 | 1210 | 868 | 0.488054437 | CXCL3,GRO1,ENSBTAG00000027513 |
| 6 | 90,750,000 | 90,900,000 | 1211 | 896 | 0.309047476 | CXCL3,GRO1,MTHFD2L |
| 6 | 90,825,000 | 90,975,000 | 1212 | 830 | -0.56129078 | MTHFD2L |
| 6 | 90,900,000 | 91,050,000 | 1213 | 693 | -0.938034688 | EPGN,MTHFD2L |
| 6 | 90,975,000 | 91,125,000 | 1214 | 530 | -0.126774788 | EPGN,EREG,MTHFD2L |
| 6 | 91,050,000 | 91,200,000 | 1215 | 653 | -1.33523021 | AREG,EREG |
| 6 | 91,125,000 | 91,275,000 | 1216 | 959 | -1.959594399 | AREG |
| 6 | 91,200,000 | 91,350,000 | 1217 | 1267 | -3.078400919 | |
| 6 | 91,275,000 | 91,425,000 | 1218 | 1151 | -2.767559657 | |
| 6 | 91,350,000 | 91,500,000 | 1219 | 801 | -0.504968992 | BTC |
| 6 | 91,425,000 | 91,575,000 | 1220 | 968 | 0.137782426 | BTC |
| 6 | 91,500,000 | 91,650,000 | 1221 | 802 | -0.22178637 | DKFZP564O0823 |
| 6 | 91,575,000 | 91,725,000 | 1222 | 386 | -1.177600624 | DKFZP564O0823 |
| 6 | 91,650,000 | 91,800,000 | 1223 | 604 | -0.047351856 | DKFZP564O0823 |
| 6 | 91,725,000 | 91,875,000 | 1224 | 804 | 0.323786965 | |
| 6 | 91,800,000 | 91,950,000 | 1225 | 683 | 0.956185363 | |
| 6 | 91,875,000 | 92,025,000 | 1226 | 597 | 0.850095244 | |
| 6 | 91,950,000 | 92,100,000 | 1227 | 482 | 0.152201075 | RCHY1,THAP6 |
| 6 | 92,025,000 | 92,175,000 | 1228 | 674 | -0.182479586 | CDKL2,RCHY1,THAP6 |
| 6 | 92,100,000 | 92,250,000 | 1229 | 567 | 0.024025521 | CDKL2,G3BP2,THAP6 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 6 | 92,175,000 | 92,325,000 | 1230 | 221 | 0.213209134 | CDKL2,G3BP2,USO1 |
| 6 | 92,250,000 | 92,400,000 | 1231 | 456 | -0.221265956 | USO1 |
| 6 | 92,325,000 | 92,475,000 | 1232 | 934 | -0.735967597 | PPEF2,USO1 |
| 6 | 92,400,000 | 92,550,000 | 1233 | 1038 | -0.720950621 | NAAA,PPEF2 |
| 6 | 92,475,000 | 92,625,000 | 1234 | 839 | -0.480796211 | ART3,CXCL10,CXCL9,NAAA,PPEF2,SDAD1 |
| 6 | 92,550,000 | 92,700,000 | 1235 | 577 | -0.565240855 | ART3,CXCL10,CXCL11,CXCL9,SDAD1 |
| 6 | 92,625,000 | 92,775,000 | 1236 | 531 | -0.4442917 | ART3,CXCL10,CXCL11,NUP54 |
| 6 | 92,700,000 | 92,850,000 | 1237 | 992 | 0.205016683 | ART3,NUP54,SCARB2 |
| 6 | 92,775,000 | 92,925,000 | 1238 | 1310 | 0.368471487 | NUP54,SCARB2,ENSBTAG00000004921 |
| 6 | 92,850,000 | 93,000,000 | 1239 | 998 | -0.103332863 | CCDC158,FAM47E-STBD1,SCARB2,ENSBTAG00000004921 |
| 6 | 92,925,000 | 93,075,000 | 1240 | 777 | -0.744095646 | CCDC158,FAM47E-STBD1,ENSBTAG00000004921 |
| 6 | 93,000,000 | 93,150,000 | 1241 | 1213 | -0.874469984 | CCDC158 |
| 6 | 93,075,000 | 93,225,000 | 1242 | 1226 | -0.610599223 | |
| 6 | 93,150,000 | 93,300,000 | 1243 | 897 | -0.262431751 | |
| 6 | 93,225,000 | 93,375,000 | 1244 | 818 | -0.534358597 | SHROOM3 |
| 6 | 93,300,000 | 93,450,000 | 1245 | 612 | -0.44166849 | SHROOM3 |
| 6 | 93,375,000 | 93,525,000 | 1246 | 462 | 0.026596246 | SHROOM3,SOWAHB |
| 6 | 93,450,000 | 93,600,000 | 1247 | 637 | -1.715678005 | SEPT11,SOWAHB |
| 6 | 93,525,000 | 93,675,000 | 1248 | 890 | -4.401968442 | CCNI,SEPT11 |
| 6 | 93,600,000 | 93,750,000 | 1249 | 709 | -5.414306263 | CCNG2,CCNI,SEPT11 |
| 6 | 93,675,000 | 93,825,000 | 1250 | 531 | -2.344434315 | CCNG2 |
| 6 | 93,750,000 | 93,900,000 | 1251 | 693 | -0.053305256 | CCNG2,SLC25A16 |
| 6 | 93,825,000 | 93,975,000 | 1252 | 519 | -0.324583249 | SLC25A16 |
| 6 | 93,900,000 | 94,050,000 | 1253 | 398 | -1.823904802 | CXCL13 |
| 6 | 93,975,000 | 94,125,000 | 1254 | 547 | -1.744041902 | CXCL13,RPL23A |
| 6 | 94,050,000 | 94,200,000 | 1255 | 527 | -1.153230879 | CNOT6L,RPL23A |
| 6 | 94,125,000 | 94,275,000 | 1256 | 387 | -1.171962446 | CNOT6L |
| 6 | 94,200,000 | 94,350,000 | 1257 | 244 | -2.771968229 | CNOT6L,MRPL1 |
| 6 | 94,275,000 | 94,425,000 | 1258 | 188 | -3.603934593 | MRPL1 |
| 6 | 94,350,000 | 94,500,000 | 1259 | 171 | -1.874260526 | MRPL1 |
| 6 | 94,425,000 | 94,575,000 | 1260 | 294 | 0.375824703 | |
| 6 | 94,500,000 | 94,650,000 | 1261 | 542 | -0.152260748 | |
| 6 | 94,575,000 | 94,725,000 | 1262 | 700 | 0.60262891 | FRAS1 |
| 6 | 94,650,000 | 94,800,000 | 1263 | 996 | 0.847281911 | FRAS1 |
| 6 | 94,725,000 | 94,875,000 | 1264 | 1074 | 0.299777691 | FRAS1 |
| 6 | 94,800,000 | 94,950,000 | 1265 | 731 | -0.253668901 | FRAS1 |
| 6 | 94,875,000 | 95,025,000 | 1266 | 401 | 0.035934993 | FRAS1 |
| 6 | 94,950,000 | 95,100,000 | 1267 | 393 | 0.278554047 | ANXA3,FRAS1 |
| 6 | 95,025,000 | 95,175,000 | 1268 | 612 | -0.564599645 | ANXA3,FRAS1 |
| 6 | 95,100,000 | 95,250,000 | 1269 | 836 | -0.239510053 | ANXA3 |
| 6 | 95,175,000 | 95,325,000 | 1270 | 747 | 0.393941422 | |
| 6 | 95,250,000 | 95,400,000 | 1271 | 487 | -0.4376992 | BMP2K |
| 6 | 95,325,000 | 95,475,000 | 1272 | 551 | -0.501756964 | BMP2K,PAQR3 |
| 6 | 95,400,000 | 95,550,000 | 1273 | 656 | -0.11478774 | BMP2K,PAQR3 |
| 6 | 95,475,000 | 95,625,000 | 1274 | 865 | 0.020939889 | |
| 6 | 95,550,000 | 95,700,000 | 1275 | 1168 | 0.640963522 | |
| 6 | 95,625,000 | 95,775,000 | 1276 | 1021 | 0.382201793 | |
| 6 | 95,700,000 | 95,850,000 | 1277 | 846 | -0.312031104 | NAA11 |
| 6 | 95,775,000 | 95,925,000 | 1278 | 1081 | 0.425541193 | DYNLL1,GK2,NAA11 |
| 6 | 95,850,000 | 96,000,000 | 1279 | 919 | -1.15821769 | DYNLL1,GK2 |
| 6 | 95,925,000 | 96,075,000 | 1280 | 1024 | -0.900971163 | |
| 6 | 96,000,000 | 96,150,000 | 1281 | 954 | -0.861144691 | |

| | | | | | | |
|---|------------|-------------|------|------|--------------|---|
| 6 | 96,075,000 | 96,225,000 | 1282 | 423 | -0.979529731 | |
| 6 | 96,150,000 | 96,300,000 | 1283 | 644 | 0.861500168 | |
| 6 | 96,225,000 | 96,375,000 | 1284 | 653 | 1.111433655 | ANTXR2 |
| 6 | 96,300,000 | 96,450,000 | 1285 | 456 | 0.730102143 | ANTXR2 |
| 6 | 96,375,000 | 96,525,000 | 1286 | 413 | 0.435131127 | ANTXR2 |
| 6 | 96,450,000 | 96,600,000 | 1287 | 240 | -1.343751826 | ANTXR2 |
| 6 | 96,525,000 | 96,675,000 | 1288 | 176 | -1.777789934 | ANTXR2,PRDM8 |
| 6 | 96,600,000 | 96,750,000 | 1289 | 261 | -0.246266223 | FGF5,PRDM8 |
| 6 | 96,675,000 | 96,825,000 | 1290 | 348 | -0.034438809 | C4orf22,FGF5 |
| 6 | 96,750,000 | 96,900,000 | 1291 | 581 | 0.797211597 | C4orf22 |
| 6 | 96,825,000 | 96,975,000 | 1292 | 713 | 0.595506994 | C4orf22 |
| 6 | 96,900,000 | 97,050,000 | 1293 | 629 | 0.250165287 | C4orf22 |
| 6 | 96,975,000 | 97,125,000 | 1294 | 522 | 0.417084227 | C4orf22 |
| 6 | 97,050,000 | 97,200,000 | 1295 | 471 | 0.614681229 | C4orf22 |
| 6 | 97,125,000 | 97,275,000 | 1296 | 524 | 0.236081989 | C4orf22 |
| 6 | 97,200,000 | 97,350,000 | 1297 | 632 | -0.284098417 | C4orf22 |
| 6 | 97,275,000 | 97,425,000 | 1298 | 563 | -0.64243692 | C4orf22 |
| 6 | 97,350,000 | 97,500,000 | 1299 | 309 | -1.054739885 | C4orf22 |
| 6 | 97,425,000 | 97,575,000 | 1300 | 319 | 0.48349463 | C4orf22 |
| 6 | 97,500,000 | 97,650,000 | 1301 | 383 | 0.673642045 | BMP3,C4orf22 |
| 6 | 97,575,000 | 97,725,000 | 1302 | 593 | 0.161326644 | BMP3,PRKG2 |
| 6 | 97,650,000 | 97,800,000 | 1303 | 629 | 0.111408143 | PRKG2 |
| 6 | 97,725,000 | 97,875,000 | 1304 | 635 | -0.682646431 | PRKG2 |
| 6 | 97,800,000 | 97,950,000 | 1305 | 950 | 0.243265908 | |
| 6 | 97,875,000 | 98,025,000 | 1306 | 1025 | 0.776558093 | RASGEF1B |
| 6 | 97,950,000 | 98,100,000 | 1307 | 883 | 0.226333428 | RASGEF1B |
| 6 | 98,025,000 | 98,175,000 | 1308 | 635 | -0.063566735 | RASGEF1B |
| 6 | 98,100,000 | 98,250,000 | 1309 | 595 | 0.139688721 | |
| 6 | 98,175,000 | 98,325,000 | 1310 | 716 | 0.116426712 | |
| 6 | 98,250,000 | 98,400,000 | 1311 | 823 | 0.219291897 | |
| 6 | 98,325,000 | 98,475,000 | 1312 | 827 | 0.365696881 | |
| 6 | 98,400,000 | 98,550,000 | 1313 | 663 | 0.572456363 | |
| 6 | 98,475,000 | 98,625,000 | 1314 | 849 | 1.234006638 | |
| 6 | 98,550,000 | 98,700,000 | 1315 | 1024 | 1.271722005 | |
| 6 | 98,625,000 | 98,775,000 | 1316 | 645 | 1.20291592 | |
| 6 | 98,700,000 | 98,850,000 | 1317 | 670 | 0.669204072 | |
| 6 | 98,775,000 | 98,925,000 | 1318 | 956 | 0.679041397 | HNRPD |
| 6 | 98,850,000 | 99,000,000 | 1319 | 1110 | 0.835000055 | ENOPH1,HNRPD,HNRPDL |
| 6 | 98,925,000 | 99,075,000 | 1320 | 1443 | 1.140359044 | ENOPH1,HNRPD,HNRPDL,TMEM150C |
| 6 | 99,000,000 | 99,150,000 | 1321 | 1122 | 0.943178176 | ENOPH1,TMEM150C |
| 6 | 99,075,000 | 99,225,000 | 1322 | 858 | -0.039837056 | |
| 6 | 99,150,000 | 99,300,000 | 1323 | 1056 | 0.044328299 | SCD5 |
| 6 | 99,225,000 | 99,375,000 | 1324 | 911 | 0.168287613 | SCD5 |
| 6 | 99,300,000 | 99,450,000 | 1325 | 569 | 0.008580003 | SCD5,SEC31A |
| 6 | 99,375,000 | 99,525,000 | 1326 | 330 | 0.134552906 | SCD5,SEC31A,THAP9 |
| 6 | 99,450,000 | 99,600,000 | 1327 | 203 | -0.225618629 | LIN54,SEC31A,THAP9 |
| 6 | 99,525,000 | 99,675,000 | 1328 | 420 | 0.68329522 | COPS4,LIN54,PLAC8 |
| 6 | 99,600,000 | 99,750,000 | 1329 | 811 | 1.014911297 | COPS4,PLAC8 |
| 6 | 99,675,000 | 99,825,000 | 1330 | 801 | 0.495697286 | COQ2,PLAC8 |
| 6 | 99,750,000 | 99,900,000 | 1331 | 1016 | 0.154425085 | COQ2,HPSE,PLAC8 |
| 6 | 99,825,000 | 99,975,000 | 1332 | 1104 | -0.42306472 | COQ2,HPSE |
| 6 | 99,900,000 | 100,050,000 | 1333 | 914 | -1.638700891 | FAM175A,MRPS18C,ENSBTAG00000018151 |
| 6 | 99,975,000 | 100,125,000 | 1334 | 1026 | -0.060306684 | AGPAT9,FAM175A,MRPS18C,ENSBTAG00000018151 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-------------------------|
| 6 | 100,050,000 | 100,200,000 | 1335 | 981 | 0.816538648 | AGPAT9 |
| 6 | 100,125,000 | 100,275,000 | 1336 | 837 | 0.545567848 | AGPAT9 |
| 6 | 100,200,000 | 100,350,000 | 1337 | 902 | 0.441559662 | |
| 6 | 100,275,000 | 100,425,000 | 1338 | 854 | 0.712948221 | |
| 6 | 100,350,000 | 100,500,000 | 1339 | 616 | 0.418563016 | |
| 6 | 100,425,000 | 100,575,000 | 1340 | 584 | -1.042736576 | |
| 6 | 100,500,000 | 100,650,000 | 1341 | 978 | -0.170761666 | |
| 6 | 100,575,000 | 100,725,000 | 1342 | 1183 | 0.284928504 | |
| 6 | 100,650,000 | 100,800,000 | 1343 | 859 | -0.223733926 | |
| 6 | 100,725,000 | 100,875,000 | 1344 | 779 | -3.260973114 | |
| 6 | 100,800,000 | 100,950,000 | 1345 | 728 | -3.212340069 | |
| 6 | 100,875,000 | 101,025,000 | 1346 | 487 | -1.060548423 | |
| 6 | 100,950,000 | 101,100,000 | 1347 | 455 | 0.11040287 | NKX6-1 |
| 6 | 101,025,000 | 101,175,000 | 1348 | 472 | -0.006112539 | NKX6-1 |
| 6 | 101,100,000 | 101,250,000 | 1349 | 345 | -0.850095406 | CDS1 |
| 6 | 101,175,000 | 101,325,000 | 1350 | 186 | -1.752717923 | CDS1,WDFY3 |
| 6 | 101,250,000 | 101,400,000 | 1351 | 257 | -0.175508398 | CDS1,WDFY3 |
| 6 | 101,325,000 | 101,475,000 | 1352 | 369 | 0.657810988 | WDFY3 |
| 6 | 101,400,000 | 101,550,000 | 1353 | 351 | 0.970362813 | WDFY3 |
| 6 | 101,475,000 | 101,625,000 | 1354 | 620 | 0.935549525 | WDFY3 |
| 6 | 101,550,000 | 101,700,000 | 1355 | 604 | 0.51431986 | |
| 6 | 101,625,000 | 101,775,000 | 1356 | 427 | -0.659632774 | |
| 6 | 101,700,000 | 101,850,000 | 1357 | 515 | -1.434665252 | |
| 6 | 101,775,000 | 101,925,000 | 1358 | 509 | -0.082527174 | |
| 6 | 101,850,000 | 102,000,000 | 1359 | 823 | 1.059437172 | |
| 6 | 101,925,000 | 102,075,000 | 1360 | 960 | 1.202832796 | |
| 6 | 102,000,000 | 102,150,000 | 1361 | 851 | 0.061155936 | |
| 6 | 102,075,000 | 102,225,000 | 1362 | 734 | -0.729186821 | |
| 6 | 102,150,000 | 102,300,000 | 1363 | 468 | -0.312731902 | |
| 6 | 102,225,000 | 102,375,000 | 1364 | 390 | -0.194392049 | |
| 6 | 102,300,000 | 102,450,000 | 1365 | 367 | 0.392422531 | |
| 6 | 102,375,000 | 102,525,000 | 1366 | 608 | 0.85894468 | ARHGAP24 |
| 6 | 102,450,000 | 102,600,000 | 1367 | 614 | 0.954814161 | ARHGAP24 |
| 6 | 102,525,000 | 102,675,000 | 1368 | 568 | 0.173854573 | ARHGAP24 |
| 6 | 102,600,000 | 102,750,000 | 1369 | 1119 | 0.090154987 | ARHGAP24,MAPK10 |
| 6 | 102,675,000 | 102,825,000 | 1370 | 1138 | 0.528205038 | MAPK10 |
| 6 | 102,750,000 | 102,900,000 | 1371 | 1125 | 1.133048248 | MAPK10 |
| 6 | 102,825,000 | 102,975,000 | 1372 | 1465 | 1.231490778 | MAPK10 |
| 6 | 102,900,000 | 103,050,000 | 1373 | 1047 | 1.152604982 | MAPK10 |
| 6 | 102,975,000 | 103,125,000 | 1374 | 608 | 1.009559048 | MAPK10 |
| 6 | 103,050,000 | 103,200,000 | 1375 | 555 | 1.076354818 | LAMTOR5,MAPK10 |
| 6 | 103,125,000 | 103,275,000 | 1376 | 757 | 0.117149294 | LAMTOR5 |
| 6 | 103,200,000 | 103,350,000 | 1377 | 654 | -0.358616866 | |
| 6 | 103,275,000 | 103,425,000 | 1378 | 803 | -0.505586233 | PTPN13 |
| 6 | 103,350,000 | 103,500,000 | 1379 | 857 | -0.373866658 | PTPN13 |
| 6 | 103,425,000 | 103,575,000 | 1380 | 406 | 0.138136414 | PTPN13,SLC10A6 |
| 6 | 103,500,000 | 103,650,000 | 1381 | 358 | 0.351419561 | PTPN13,SLC10A6 |
| 6 | 103,575,000 | 103,725,000 | 1382 | 498 | 0.92203552 | AFF1 |
| 6 | 103,650,000 | 103,800,000 | 1383 | 676 | 0.881393916 | AFF1 |
| 6 | 103,725,000 | 103,875,000 | 1384 | 645 | 0.405856925 | AFF1,KLHL8 |
| 6 | 103,800,000 | 103,950,000 | 1385 | 637 | 0.038089749 | AFF1,KLHL8 |
| 6 | 103,875,000 | 104,025,000 | 1386 | 572 | 0.002686698 | HSD17B11,HSD17B13 |
| 6 | 103,950,000 | 104,100,000 | 1387 | 787 | 0.78959891 | HSD17B11,HSD17B13,NUDT9 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 6 | 104,025,000 | 104,175,000 | 1388 | 669 | 0.9178074 | HSD17B11,NUDT9,SPARCL1 |
| 6 | 104,100,000 | 104,250,000 | 1389 | 328 | 0.281202388 | NUDT9,SPARCL1 |
| 6 | 104,175,000 | 104,325,000 | 1390 | 432 | -0.032458912 | DMP1,DSPP,SPARCL1 |
| 6 | 104,250,000 | 104,400,000 | 1391 | 769 | 0.618465942 | DMP1,DSPP,ENSBTAG00000017829 |
| 6 | 104,325,000 | 104,475,000 | 1392 | 1058 | 0.825434254 | ENSBTAG00000006508,ENSBTAG00000017829 |
| 6 | 104,400,000 | 104,550,000 | 1393 | 1119 | 0.60623767 | ENSBTAG00000006508 |
| 6 | 104,475,000 | 104,625,000 | 1394 | 802 | 0.411036027 | PPP2R2C |
| 6 | 104,550,000 | 104,700,000 | 1395 | 567 | 0.533485489 | PPP2R2C,WFS1 |
| 6 | 104,625,000 | 104,775,000 | 1396 | 783 | 0.704992825 | PPP2R2C,WFS1 |
| 6 | 104,700,000 | 104,850,000 | 1397 | 634 | 0.035270231 | JAKMIP1 |
| 6 | 104,775,000 | 104,925,000 | 1398 | 796 | -0.917714204 | JAKMIP1 |
| 6 | 104,850,000 | 105,000,000 | 1399 | 1230 | -0.273797068 | C4orf50,JAKMIP1 |
| 6 | 104,925,000 | 105,075,000 | 1400 | 1380 | 0.365847475 | C4orf50,JAKMIP1 |
| 6 | 105,000,000 | 105,150,000 | 1401 | 1313 | 0.775171853 | C4orf50,CRMP1 |
| 6 | 105,075,000 | 105,225,000 | 1402 | 767 | 0.332915907 | CRMP1,EVC |
| 6 | 105,150,000 | 105,300,000 | 1403 | 743 | 0.618364738 | CRMP1,EVC,EVC2 |
| 6 | 105,225,000 | 105,375,000 | 1404 | 875 | 0.460293471 | EVC,EVC2 |
| 6 | 105,300,000 | 105,450,000 | 1405 | 683 | -0.528080148 | EVC2 |
| 6 | 105,375,000 | 105,525,000 | 1406 | 523 | -0.225034687 | EVC2,STK32B |
| 6 | 105,450,000 | 105,600,000 | 1407 | 493 | -2.612572706 | EVC2,STK32B |
| 6 | 105,525,000 | 105,675,000 | 1408 | 616 | -2.52034286 | STK32B |
| 6 | 105,600,000 | 105,750,000 | 1409 | 428 | 0.41434702 | |
| 6 | 105,675,000 | 105,825,000 | 1410 | 405 | -0.238727417 | |
| 6 | 105,750,000 | 105,900,000 | 1411 | 510 | 0.044856274 | |
| 6 | 105,825,000 | 105,975,000 | 1412 | 462 | 0.047960716 | CYTL1 |
| 6 | 105,900,000 | 106,050,000 | 1413 | 497 | -0.906404005 | CYTL1 |
| 6 | 105,975,000 | 106,125,000 | 1414 | 444 | -1.586161614 | MSX1 |
| 6 | 106,050,000 | 106,200,000 | 1415 | 418 | -0.638554419 | MSX1 |
| 6 | 106,125,000 | 106,275,000 | 1416 | 541 | -0.121111275 | |
| 6 | 106,200,000 | 106,350,000 | 1417 | 573 | 0.116377698 | |
| 6 | 106,275,000 | 106,425,000 | 1418 | 568 | 0.679036975 | STX18 |
| 6 | 106,350,000 | 106,500,000 | 1419 | 666 | 0.779439435 | ACOX3,NSG1,STX18 |
| 6 | 106,425,000 | 106,575,000 | 1420 | 859 | 0.577618264 | ACOX3,NSG1,STX18,TRMT44 |
| 6 | 106,500,000 | 106,650,000 | 1421 | 1057 | 0.419479818 | ACOX3,CPZ,NSG1,TRMT44 |
| 6 | 106,575,000 | 106,725,000 | 1422 | 1405 | 0.738645791 | CPZ,NSG1,TRMT44 |
| 6 | 106,650,000 | 106,800,000 | 1423 | 1261 | 0.335820399 | CPZ,NSG1 |
| 6 | 106,725,000 | 106,875,000 | 1424 | 784 | 0.138509138 | HMX1,NSG1 |
| 6 | 106,800,000 | 106,950,000 | 1425 | 942 | 0.743476648 | HMX1,NSG1 |
| 6 | 106,875,000 | 107,025,000 | 1426 | 1151 | 0.529403849 | NSG1 |
| 6 | 106,950,000 | 107,100,000 | 1427 | 1029 | 0.198365549 | NSG1 |
| 6 | 107,025,000 | 107,175,000 | 1428 | 1080 | 0.307874056 | NSG1 |
| 6 | 107,100,000 | 107,250,000 | 1429 | 1292 | 0.800447043 | DOK7,LRPAP1,NSG1 |
| 6 | 107,175,000 | 107,325,000 | 1430 | 922 | 0.831908861 | DOK7,HGFAC,LRPAP1,NSG1,RGS12 |
| 6 | 107,250,000 | 107,400,000 | 1431 | 608 | -0.056611733 | DOK7,HGFAC,NSG1,RGS12 |
| 6 | 107,325,000 | 107,475,000 | 1432 | 770 | -0.971957114 | LYAR,NSG1,RGS12,ZBTB49 |
| 6 | 107,400,000 | 107,550,000 | 1433 | 1063 | -0.672313555 | LYAR,OTOP1,TMEM128,ZBTB49 |
| 6 | 107,475,000 | 107,625,000 | 1434 | 1116 | -0.031068874 | DBDR,OTOP1,TMEM128 |
| 6 | 107,550,000 | 107,700,000 | 1435 | 818 | 0.528404082 | DBDR,HTT,MSANTD1 |
| 6 | 107,625,000 | 107,775,000 | 1436 | 673 | 0.64421718 | HTT,MSANTD1 |
| 6 | 107,700,000 | 107,850,000 | 1437 | 639 | -0.227257139 | GRK4,HTT |
| 6 | 107,775,000 | 107,925,000 | 1438 | 606 | 0.240224375 | GRK4,HTT,MFSD10,NOP14 |
| 6 | 107,850,000 | 108,000,000 | 1439 | 868 | 0.448697423 | ADD1,GRK4,MFSD10,NOP14 |
| 6 | 107,925,000 | 108,075,000 | 1440 | 827 | 0.32781901 | ADD1,MFSD10,SH3BP2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 6 | 108,000,000 | 108,150,000 | 1441 | 570 | -1.139187585 | ADD1,FAM193A,SH3BP2,TNIP2 |
| 6 | 108,075,000 | 108,225,000 | 1442 | 585 | -2.584037818 | FAM193A,TNIP2 |
| 6 | 108,150,000 | 108,300,000 | 1443 | 604 | -1.764809597 | FAM193A |
| 6 | 108,225,000 | 108,375,000 | 1444 | 509 | -0.766042785 | RNF4,ENSBTAG00000047977 |
| 6 | 108,300,000 | 108,450,000 | 1445 | 462 | 0.15004617 | RNF4,ZFYVE28,ENSBTAG00000047977 |
| 6 | 108,375,000 | 108,525,000 | 1446 | 457 | 0.6826167 | HAUS3,MXD4,ZFYVE28 |
| 6 | 108,450,000 | 108,600,000 | 1447 | 756 | 1.357925449 | HAUS3,MXD4,POLN,ZFYVE28 |
| 6 | 108,525,000 | 108,675,000 | 1448 | 1236 | 1.182944483 | POLN |
| 6 | 108,600,000 | 108,750,000 | 1449 | 839 | 0.658005979 | NAT8L,PIGG,POLN |
| 6 | 108,675,000 | 108,825,000 | 1450 | 344 | -1.103879812 | NAT8L,PDE6B,PIGG,POLN |
| 6 | 108,750,000 | 108,900,000 | 1451 | 334 | -2.32892372 | ATP5I,MFSD7,PDE6B,PIGG |
| 6 | 108,825,000 | 108,975,000 | 1452 | 517 | -1.15575129 | ATP5I,MFSD7,PCGF3,PDE6B,ENSBTAG00000048119 |
| 6 | 108,900,000 | 109,050,000 | 1453 | 626 | -0.251230323 | GAK,PCGF3,TMEM175,ENSBTAG00000048119 |
| 6 | 108,975,000 | 109,125,000 | 1454 | 499 | -0.186117362 | DGKQ,GAK,IDUA,SLC26A1,TMEM175 |
| 6 | 109,050,000 | 109,200,000 | 1455 | 364 | 0.155482082 | DGKQ,FGFRL1,IDUA,SLC26A1,TMEM175,ENSBTAG00000002247 |
| 6 | 109,125,000 | 109,275,000 | 1456 | 491 | 0.22537437 | CTBP1,FGFRL1,SPON2,ENSBTAG00000002247 |
| 6 | 109,200,000 | 109,350,000 | 1457 | 599 | 0.137469578 | CTBP1,MAEA,SPON2,ENSBTAG00000002247 |
| 6 | 109,275,000 | 109,425,000 | 1458 | 448 | -1.092449409 | MAEA,UVSSA |
| 6 | 109,350,000 | 109,500,000 | 1459 | 252 | -2.711216495 | UVSSA |
| 6 | 109,425,000 | 109,575,000 | 1460 | 291 | 0.362814403 | |
| 6 | 109,500,000 | 109,650,000 | 1461 | 428 | 0.299266228 | SLBP,TACC3,TMEM129 |
| 6 | 109,575,000 | 109,725,000 | 1462 | 363 | -0.211088936 | FGFR3,LETM1,SLBP,TACC3,TMEM129 |
| 6 | 109,650,000 | 109,800,000 | 1463 | 350 | 0.325346108 | FGFR3,LETM1,WHSC1 |
| 6 | 109,725,000 | 109,875,000 | 1464 | 429 | 0.605537708 | C4orf48,LETM1,WHSC1,WHSC2 |
| 6 | 109,800,000 | 109,950,000 | 1465 | 734 | 0.636124241 | C4orf48,SLC2A9,WHSC1,WHSC2 |
| 6 | 109,875,000 | 110,025,000 | 1466 | 965 | 0.916003199 | SLC2A9 |
| 6 | 109,950,000 | 110,100,000 | 1467 | 1152 | 1.147855628 | SLC2A9 |
| 6 | 110,025,000 | 110,175,000 | 1468 | 1074 | 1.040990061 | SLC2A9,WDR1 |
| 6 | 110,100,000 | 110,250,000 | 1469 | 936 | 0.13542379 | WDR1 |
| 6 | 110,175,000 | 110,325,000 | 1470 | 1431 | -0.504804355 | WDR1 |
| 6 | 110,250,000 | 110,400,000 | 1471 | 1448 | -0.772154609 | CLNK,ZNF518B |
| 6 | 110,325,000 | 110,475,000 | 1472 | 1513 | -0.334640312 | CLNK,ZNF518B |
| 6 | 110,400,000 | 110,550,000 | 1473 | 1497 | 0.244376742 | CLNK |
| 6 | 110,475,000 | 110,625,000 | 1474 | 896 | -0.464168637 | CLNK |
| 6 | 110,550,000 | 110,700,000 | 1475 | 622 | -1.871969822 | CLNK |
| 6 | 110,625,000 | 110,775,000 | 1476 | 855 | -0.300309943 | |
| 6 | 110,700,000 | 110,850,000 | 1477 | 955 | 0.013716127 | |
| 6 | 110,775,000 | 110,925,000 | 1478 | 1063 | -0.286571893 | |
| 6 | 110,850,000 | 111,000,000 | 1479 | 1351 | -0.21175817 | |
| 6 | 110,925,000 | 111,075,000 | 1480 | 1357 | 0.396919657 | |
| 6 | 111,000,000 | 111,150,000 | 1481 | 1530 | 0.994202383 | |
| 6 | 111,075,000 | 111,225,000 | 1482 | 1668 | 1.007076258 | |
| 6 | 111,150,000 | 111,300,000 | 1483 | 1386 | 0.857393625 | |
| 6 | 111,225,000 | 111,375,000 | 1484 | 1072 | 0.832245224 | HS3ST1 |
| 6 | 111,300,000 | 111,450,000 | 1485 | 947 | 0.67994335 | HS3ST1 |
| 6 | 111,375,000 | 111,525,000 | 1486 | 697 | 0.307320671 | HS3ST1 |
| 6 | 111,450,000 | 111,600,000 | 1487 | 646 | 0.015052638 | |
| 6 | 111,525,000 | 111,675,000 | 1488 | 1097 | 0.264342047 | |
| 6 | 111,600,000 | 111,750,000 | 1489 | 984 | -0.09671515 | |
| 6 | 111,675,000 | 111,825,000 | 1490 | 877 | -0.77961788 | |
| 6 | 111,750,000 | 111,900,000 | 1491 | 1069 | -1.590923261 | |
| 6 | 111,825,000 | 111,975,000 | 1492 | 726 | -1.993331139 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 6 | 111,900,000 | 112,050,000 | 1493 | 644 | 0.40625974 | |
| 6 | 111,975,000 | 112,125,000 | 1494 | 875 | 0.456246544 | |
| 6 | 112,050,000 | 112,200,000 | 1495 | 1002 | 0.644895546 | |
| 6 | 112,125,000 | 112,275,000 | 1496 | 951 | 0.122839017 | |
| 6 | 112,200,000 | 112,350,000 | 1497 | 1052 | -0.968722383 | |
| 6 | 112,275,000 | 112,425,000 | 1498 | 892 | -1.274796637 | |
| 6 | 112,350,000 | 112,500,000 | 1499 | 750 | -2.248789341 | |
| 6 | 112,425,000 | 112,575,000 | 1500 | 796 | -1.280914359 | |
| 6 | 112,500,000 | 112,650,000 | 1501 | 725 | 0.611581393 | |
| 6 | 112,575,000 | 112,725,000 | 1502 | 912 | 1.152177764 | |
| 6 | 112,650,000 | 112,800,000 | 1503 | 701 | 0.697321581 | |
| 6 | 112,725,000 | 112,875,000 | 1504 | 371 | -0.188842879 | |
| 6 | 112,800,000 | 112,950,000 | 1505 | 795 | -0.197656013 | |
| 6 | 112,875,000 | 113,025,000 | 1506 | 815 | -0.208585748 | |
| 6 | 112,950,000 | 113,100,000 | 1507 | 479 | -1.262031984 | |
| 6 | 113,025,000 | 113,175,000 | 1508 | 860 | -0.567983263 | |
| 6 | 113,100,000 | 113,250,000 | 1509 | 1149 | 0.435383727 | |
| 6 | 113,175,000 | 113,325,000 | 1510 | 1155 | 1.005456037 | |
| 6 | 113,250,000 | 113,400,000 | 1511 | 941 | 1.012581779 | ENSBTAG00000000872 |
| 6 | 113,325,000 | 113,475,000 | 1512 | 791 | 0.685577999 | RAB28,ENSBTAG00000000872 |
| 6 | 113,400,000 | 113,550,000 | 1513 | 632 | 0.58680267 | RAB28 |
| 6 | 113,475,000 | 113,625,000 | 1514 | 376 | 0.373141947 | NKX3-2,RAB28 |
| 6 | 113,550,000 | 113,700,000 | 1515 | 446 | 0.212681523 | BOD1L,NKX3-2,RAB28 |
| 6 | 113,625,000 | 113,775,000 | 1516 | 816 | 0.491287147 | BOD1L,NKX3-2 |
| 6 | 113,700,000 | 113,850,000 | 1517 | 1363 | -0.581438377 | BOD1L |
| 6 | 113,775,000 | 113,925,000 | 1518 | 1535 | -1.28498023 | |
| 6 | 113,850,000 | 114,000,000 | 1519 | 1190 | -0.225193861 | |
| 6 | 113,925,000 | 114,075,000 | 1520 | 979 | 0.504374424 | |
| 6 | 114,000,000 | 114,150,000 | 1521 | 977 | 0.830724231 | |
| 6 | 114,075,000 | 114,225,000 | 1522 | 835 | 0.572263518 | |
| 6 | 114,150,000 | 114,300,000 | 1523 | 652 | -0.251802755 | |
| 6 | 114,225,000 | 114,375,000 | 1524 | 552 | 0.50729709 | |
| 6 | 114,300,000 | 114,450,000 | 1525 | 507 | -0.05296803 | |
| 6 | 114,375,000 | 114,525,000 | 1526 | 605 | -1.659328428 | |
| 6 | 114,450,000 | 114,600,000 | 1527 | 972 | -1.671835398 | |
| 6 | 114,525,000 | 114,675,000 | 1528 | 1080 | -0.63966348 | |
| 6 | 114,600,000 | 114,750,000 | 1529 | 691 | -0.037316346 | |
| 6 | 114,675,000 | 114,825,000 | 1530 | 737 | -0.297146136 | |
| 6 | 114,750,000 | 114,900,000 | 1531 | 736 | -0.525732282 | |
| 6 | 114,825,000 | 114,975,000 | 1532 | 320 | 0.188925427 | CPEB2 |
| 6 | 114,900,000 | 115,050,000 | 1533 | 182 | 0.300037728 | CPEB2 |
| 6 | 114,975,000 | 115,125,000 | 1534 | 284 | -0.778432484 | CPEB2 |
| 6 | 115,050,000 | 115,200,000 | 1535 | 459 | -0.120268016 | |
| 6 | 115,125,000 | 115,275,000 | 1536 | 581 | 0.410696427 | |
| 6 | 115,200,000 | 115,350,000 | 1537 | 526 | 0.504280948 | C1QTNF7 |
| 6 | 115,275,000 | 115,425,000 | 1538 | 460 | -0.495533096 | C1QTNF7 |
| 6 | 115,350,000 | 115,500,000 | 1539 | 478 | -0.362267003 | C1QTNF7,CC2D2A |
| 6 | 115,425,000 | 115,575,000 | 1540 | 358 | 0.699687742 | CC2D2A,FBXL5 |
| 6 | 115,500,000 | 115,650,000 | 1541 | 299 | 0.407883379 | CC2D2A,FBXL5 |
| 6 | 115,575,000 | 115,725,000 | 1542 | 526 | 0.698807048 | BST1,FBXL5 |
| 6 | 115,650,000 | 115,800,000 | 1543 | 1009 | 0.887933192 | BST1 |
| 6 | 115,725,000 | 115,875,000 | 1544 | 1310 | 0.481157553 | CD38 |
| 6 | 115,800,000 | 115,950,000 | 1545 | 920 | -0.339788225 | CD38,FGFBP1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 6 | 115,875,000 | 116,025,000 | 1546 | 1011 | 0.130789908 | FGFBP1,PROM1 |
| 6 | 115,950,000 | 116,100,000 | 1547 | 1246 | 0.787885852 | PROM1 |
| 6 | 116,025,000 | 116,175,000 | 1548 | 870 | 0.760453887 | PROM1 |
| 6 | 116,100,000 | 116,250,000 | 1549 | 626 | 0.501024083 | PROM1,TAPT1 |
| 6 | 116,175,000 | 116,325,000 | 1550 | 450 | 0.454728042 | TAPT1 |
| 6 | 116,250,000 | 116,400,000 | 1551 | 400 | 0.474553188 | |
| 6 | 116,325,000 | 116,475,000 | 1552 | 520 | -0.163473914 | |
| 6 | 116,400,000 | 116,550,000 | 1553 | 1120 | 0.100787946 | LDB2 |
| 6 | 116,475,000 | 116,625,000 | 1554 | 1330 | 0.213023862 | LDB2 |
| 6 | 116,550,000 | 116,700,000 | 1555 | 1109 | -0.433606755 | LDB2 |
| 6 | 116,625,000 | 116,775,000 | 1556 | 1123 | -0.781539649 | LDB2 |
| 6 | 116,700,000 | 116,850,000 | 1557 | 893 | -1.54886438 | LDB2 |
| 6 | 116,775,000 | 116,925,000 | 1558 | 705 | -0.975417051 | LDB2 |
| 6 | 116,850,000 | 117,000,000 | 1559 | 655 | 0.382935162 | LDB2,ENSBTAG00000045917 |
| 6 | 116,925,000 | 117,075,000 | 1560 | 1087 | 0.367965352 | LDB2,ENSBTAG00000045917 |
| 6 | 117,000,000 | 117,150,000 | 1561 | 1567 | -0.053041668 | |
| 6 | 117,075,000 | 117,225,000 | 1562 | 1025 | -0.45264035 | |
| 6 | 117,150,000 | 117,300,000 | 1563 | 514 | -0.374318311 | ENSBTAG00000039645 |
| 6 | 117,225,000 | 117,375,000 | 1564 | 561 | -0.022780343 | ENSBTAG00000039645 |
| 6 | 117,300,000 | 117,450,000 | 1565 | 588 | 0.337652265 | |
| 6 | 117,375,000 | 117,525,000 | 1566 | 593 | 0.189576846 | |
| 6 | 117,450,000 | 117,600,000 | 1567 | 1098 | -0.191817955 | |
| 6 | 117,525,000 | 117,675,000 | 1568 | 1567 | -0.416064622 | |
| 6 | 117,600,000 | 117,750,000 | 1569 | 1337 | -0.004749836 | CLRN2,QDPR |
| 6 | 117,675,000 | 117,825,000 | 1570 | 1253 | 0.812656652 | CLRN2,QDPR,ENSBTAG00000019584 |
| 6 | 117,750,000 | 117,900,000 | 1571 | 1164 | 0.924026907 | CLRN2,ENSBTAG00000019584,ENSBTAG00000027825 |
| 6 | 117,825,000 | 117,975,000 | 1572 | 896 | 0.812028195 | ENSBTAG00000019584,ENSBTAG00000027825 |
| 6 | 117,900,000 | 118,050,000 | 1573 | 762 | 0.861966138 | CNO,MRFAP1,ENSBTAG00000027825 |
| 6 | 117,975,000 | 118,125,000 | 1574 | 561 | 1.073943942 | CNO,MRFAP1 |
| 6 | 118,050,000 | 118,200,000 | 1575 | 401 | 0.529646807 | KIAA0232 |
| 6 | 118,125,000 | 118,275,000 | 1576 | 516 | -0.830154213 | KIAA0232,TBC1D14 |
| 6 | 118,200,000 | 118,350,000 | 1577 | 735 | -0.463164129 | CCDC96,GRPEL1,TBC1D14,ENSBTAG00000010185 |
| 6 | 118,275,000 | 118,425,000 | 1578 | 1085 | 0.376530194 | CCDC96,GRPEL1,TBC1D14,ENSBTAG00000010185 |
| 6 | 118,350,000 | 118,500,000 | 1579 | 1422 | 0.426418887 | |
| 6 | 118,425,000 | 118,575,000 | 1580 | 1319 | -0.035802353 | |
| 6 | 118,500,000 | 118,650,000 | 1581 | 1241 | -0.673644518 | |
| 6 | 118,575,000 | 118,725,000 | 1582 | 1611 | -0.181426984 | PSAPL1 |
| 6 | 118,650,000 | 118,800,000 | 1583 | 1642 | 0.891511471 | PSAPL1 |
| 6 | 118,725,000 | 118,875,000 | 1584 | 1575 | 1.213884548 | |
| 6 | 118,800,000 | 118,950,000 | 1585 | 1569 | 1.244850653 | AFAP1,SORCS2 |
| 6 | 118,875,000 | 119,025,000 | 1586 | 1003 | 0.572354597 | AFAP1,SORCS2 |
| 6 | 118,950,000 | 119,100,000 | 1587 | 863 | 0.539030782 | AFAP1 |
| 6 | 119,025,000 | 119,175,000 | 1588 | 1004 | 0.667802753 | ABLIM2,AFAP1 |
| 6 | 119,100,000 | 119,250,000 | 1589 | 1398 | 0.235230888 | ABLIM2 |
| 6 | 119,175,000 | 119,325,000 | 1590 | 1851 | -0.493255337 | ABLIM2,SH3TC1 |
| 6 | 119,250,000 | 119,400,000 | 1591 | 1677 | -1.299803102 | HTRA3,SH3TC1 |
| 6 | 119,325,000 | 119,458,736 | 1592 | 1226 | -0.895700035 | HTRA3,SH3TC1 |
| 7 | 0 | 150,000 | 1 | 328 | 0.865711222 | |
| 7 | 75,000 | 225,000 | 2 | 359 | 0.830624046 | ENSBTAG00000040610 |
| 7 | 150,000 | 300,000 | 3 | 494 | 0.531714014 | ENSBTAG00000037602,ENSBTAG00000040610 |
| 7 | 225,000 | 375,000 | 4 | 989 | 0.624558075 | ENSBTAG00000037602 |
| 7 | 300,000 | 450,000 | 5 | 827 | 0.639036163 | FLT4 |
| 7 | 375,000 | 525,000 | 6 | 301 | 0.813403778 | CNOT6,FLT4 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---|
| 7 | 450,000 | 600,000 | 7 | 229 | 0.729746215 | CNOT6 |
| 7 | 525,000 | 675,000 | 8 | 540 | 0.60723696 | CNOT6 |
| 7 | 600,000 | 750,000 | 9 | 903 | 0.580368982 | |
| 7 | 675,000 | 825,000 | 10 | 669 | 0.716631815 | GFPT2 |
| 7 | 750,000 | 900,000 | 11 | 454 | 1.058697196 | GFPT2,MAPK9 |
| 7 | 825,000 | 975,000 | 12 | 734 | 0.777100449 | MAPK9,ENSBTAG00000047695 |
| 7 | 900,000 | 1,050,000 | 13 | 1000 | 0.903820701 | RASGEF1C,ENSBTAG00000047695 |
| 7 | 975,000 | 1,125,000 | 14 | 866 | 0.529616825 | RASGEF1C,RNF130 |
| 7 | 1,050,000 | 1,200,000 | 15 | 606 | -1.14701834 | RNF130 |
| 7 | 1,125,000 | 1,275,000 | 16 | 547 | -1.360331659 | RNF130,TBC1D9B |
| 7 | 1,200,000 | 1,350,000 | 17 | 872 | -1.533477848 | C7H5orf45,RNF130,SQSTM1,TBC1D9B |
| 7 | 1,275,000 | 1,425,000 | 18 | 897 | -0.563594781 | C7H5orf45,LTC4S,MGAT4B,SQSTM1,TBC1D9B |
| 7 | 1,350,000 | 1,500,000 | 19 | 615 | 0.365022593 | LTC4S,MAML1,MGAT4B |
| 7 | 1,425,000 | 1,575,000 | 20 | 478 | 0.24287369 | CANX,CBY3,MAML1 |
| 7 | 1,500,000 | 1,650,000 | 21 | 431 | 0.685346849 | CANX,CBY3,HNRNPH1,RUFY1 |
| 7 | 1,575,000 | 1,725,000 | 22 | 607 | 0.004193733 | HNRNPH1,RUFY1 |
| 7 | 1,650,000 | 1,800,000 | 23 | 779 | 0.172429551 | RUFY1 |
| 7 | 1,725,000 | 1,875,000 | 24 | 743 | 0.436370806 | |
| 7 | 1,800,000 | 1,950,000 | 25 | 801 | 0.326492654 | |
| 7 | 1,875,000 | 2,025,000 | 26 | 899 | 0.379671071 | ADAMTS2 |
| 7 | 1,950,000 | 2,100,000 | 27 | 696 | -0.540006331 | ADAMTS2 |
| 7 | 2,025,000 | 2,175,000 | 28 | 441 | -0.704405042 | ADAMTS2 |
| 7 | 2,100,000 | 2,250,000 | 29 | 320 | 0.602796029 | ADAMTS2,ZNF354C,ZNF879 |
| 7 | 2,175,000 | 2,325,000 | 30 | 795 | 0.435700456 | GRM6,ZNF354C,ZNF879,ENSBTAG00000034973 |
| 7 | 2,250,000 | 2,400,000 | 31 | 845 | 0.403816277 | GRM6,ZFP2,ZNF454,ZNF879,ENSBTAG00000034973 |
| 7 | 2,325,000 | 2,475,000 | 32 | 485 | 0.14547149 | RNF187,ZFP2,ZNF454 |
| 7 | 2,400,000 | 2,550,000 | 33 | 440 | -1.57096287 | HIST3H2A,HIST3H2BB,RNF187,TRIM11,TRIM17 |
| 7 | 2,475,000 | 2,625,000 | 34 | 797 | -1.311610772 | HIST3H2A,HIST3H2BB,MGC166429,TRIM11,TRIM17,ENSBTAG00000001604 |
| 7 | 2,550,000 | 2,700,000 | 35 | 1177 | -0.595378339 | MGC166429,TRIM11,ENSBTAG00000001604 |
| 7 | 2,625,000 | 2,775,000 | 36 | 1138 | -0.693696731 | |
| 7 | 2,700,000 | 2,850,000 | 37 | 1301 | 0.018407273 | |
| 7 | 2,775,000 | 2,925,000 | 38 | 1112 | 0.433100609 | ARF1,GJC2,GUK1,IBA57,MMTAG2,MRPL55 |
| 7 | 2,850,000 | 3,000,000 | 39 | 667 | 0.283846256 | ARF1,GJC2,GUK1,IBA57,MMTAG2,MRPL55,WNT3A |
| 7 | 2,925,000 | 3,075,000 | 40 | 504 | -0.072528575 | ARF1,WNT3A,WNT9A |
| 7 | 3,000,000 | 3,150,000 | 41 | 789 | -0.836012011 | WNT9A,ENSBTAG00000011216 |
| 7 | 3,075,000 | 3,225,000 | 42 | 932 | -0.775005472 | PRSS38,ENSBTAG00000011216 |
| 7 | 3,150,000 | 3,300,000 | 43 | 661 | -0.150189293 | PRSS38,ENSBTAG00000011216 |
| 7 | 3,225,000 | 3,375,000 | 44 | 925 | -0.218441281 | SNAP47 |
| 7 | 3,300,000 | 3,450,000 | 45 | 995 | -0.075596134 | JMJD4,SNAP47,ZNF354B |
| 7 | 3,375,000 | 3,525,000 | 46 | 1147 | 0.430612231 | JMJD4,SNAP47,ZNF354B |
| 7 | 3,450,000 | 3,600,000 | 47 | 1246 | 0.225060939 | ATP13A1 |
| 7 | 3,525,000 | 3,675,000 | 48 | 892 | -0.338995416 | ATP13A1,GMIP,LPAR2,PBX4 |
| 7 | 3,600,000 | 3,750,000 | 49 | 712 | -0.298951655 | ATP13A1,CILP2,GATAD2A,GMIP,LPAR2,NDUFA13,PBX4,TSK6,YJEFN3 |
| 7 | 3,675,000 | 3,825,000 | 50 | 474 | 0.845786763 | CILP2,GATAD2A,NDUFA13,PBX4,TSSK6,YJEFN3 |
| 7 | 3,750,000 | 3,900,000 | 51 | 365 | 0.451559473 | GATAD2A,MAU2,SF4 |
| 7 | 3,825,000 | 3,975,000 | 52 | 674 | 0.384808532 | GATAD2A,HAPLN4,MAU2,NCAN,SF4,TM6SF2 |
| 7 | 3,900,000 | 4,050,000 | 53 | 1018 | 0.264488923 | HAPLN4,MEF2B,MEF2BNB,NCAN,NR2C2AP,RFXANK,SF4,TM6SF2,TMEM161A |
| 7 | 3,975,000 | 4,125,000 | 54 | 708 | 0.16728442 | ARMC6,MEF2B,MEF2BNB,NCAN,NR2C2AP,RFXANK,SLC25A42,SUGP2,TMEM161A |
| 7 | 4,050,000 | 4,200,000 | 55 | 746 | 0.38126302 | ARMC6,SLC25A42,SUGP2 |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|--|
| 7 | 4,125,000 | 4,275,000 | 56 | 833 | 0.203700439 | COPE,DDX49,HOMER3,LASS1,SUGP2,UPF1,ENSBTAG0000020923 |
| 7 | 4,200,000 | 4,350,000 | 57 | 546 | -0.779776148 | COPE,DDX49,HOMER3,LASS1,UPF1,ENSBTAG00000020923 |
| 7 | 4,275,000 | 4,425,000 | 58 | 551 | -1.025362454 | COMP,CRTC1,UPF1 |
| 7 | 4,350,000 | 4,500,000 | 59 | 437 | -0.334545652 | COMP,CRTC1,KLHL26 |
| 7 | 4,425,000 | 4,575,000 | 60 | 328 | 0.320192016 | C19orf60,CRLF1,CRTC1,FKBP8,KLHL26,KXD1,TMEM59L,UBA52 |
| 7 | 4,500,000 | 4,650,000 | 61 | 464 | 0.776480302 | C19orf60,CRLF1,ELL,FKBP8,KXD1,TMEM59L,UBA52 |
| 7 | 4,575,000 | 4,725,000 | 62 | 761 | 0.649219243 | ELL,GDF15,ISYNA1,LRRC25,SSBP4 |
| 7 | 4,650,000 | 4,800,000 | 63 | 891 | 0.869637605 | ELL,GDF15,ISYNA1,LRRC25,PGPEP1,SSBP4 |
| 7 | 4,725,000 | 4,875,000 | 64 | 684 | 1.194235852 | CIST1,LSM4,PGPEP1 |
| 7 | 4,800,000 | 4,950,000 | 65 | 678 | 0.935554259 | CIST1,KIAA1683,LSM4,PDE4C,RAB3A |
| 7 | 4,875,000 | 5,025,000 | 66 | 681 | 0.212013151 | CIST1,IFI30,KIAA1683,MAST3,MPV17L2,PDE4C,PIK3R2,RAB3A |
| 7 | 4,950,000 | 5,100,000 | 67 | 798 | -0.41948684 | IFI30,IL12RB1,MAST3,MPV17L2,PIK3R2,RAB3A |
| 7 | 5,025,000 | 5,175,000 | 68 | 911 | 0.015746766 | ARRDC2,CCDC124,IL12RB1,KCNN1,MAST3 |
| 7 | 5,100,000 | 5,250,000 | 69 | 730 | 0.776748584 | ARRDC2,CCDC124,JAK3,KCNN1,RPL18A,SLC5A5 |
| 7 | 5,175,000 | 5,325,000 | 70 | 666 | 0.98189664 | B3GNT3,FCHO1,INSL3,JAK3,RPL18A,SLC5A5 |
| 7 | 5,250,000 | 5,400,000 | 71 | 757 | 0.92504357 | B3GNT3,FCHO1,INSL3,MAP1S,UNC13A |
| 7 | 5,325,000 | 5,475,000 | 72 | 966 | 0.326497784 | COLGALT1,MAP1S,UNC13A |
| 7 | 5,400,000 | 5,550,000 | 73 | 1156 | 0.257968637 | COLGALT1,FAM129C,PGLS,SLC27A1,UNC13A |
| 7 | 5,475,000 | 5,625,000 | 74 | 1007 | -0.009178452 | COLGALT1,FAM129C,MVB12A,NXNL1,PGLS,SLC27A1,ENSBTAG00000025767 |
| 7 | 5,550,000 | 5,700,000 | 75 | 969 | -0.12537188 | MVB12A,NXNL1,PLVAP,SLC27A1,ENSBTAG00000008021,ENSBTAG00000025767,ENSBTAG00000045588 |
| 7 | 5,625,000 | 5,775,000 | 76 | 738 | 0.258496726 | ABHD8,ANKLE1,ANO8,BABAM1,DDA1,GTPBP3,MRPL34,PLVAP,USHBP1,ENSBTAG00000008021,ENSBTAG00000045588 |
| 7 | 5,700,000 | 5,850,000 | 77 | 324 | 0.564964417 | ABHD8,ANKLE1,ANO8,BABAM1,DDA1,GTPBP3,MRPL34,MYO9B,NR2F6,PLVAP,USE1,USHBP1,ENSBTAG00000011135 |
| 7 | 5,775,000 | 5,925,000 | 78 | 531 | 0.418473382 | HICE1,MYO9B,NR2F6,USE1,USHBP1,ENSBTAG00000011135 |
| 7 | 5,850,000 | 6,000,000 | 79 | 772 | -0.242719693 | CPAMD8,HICE1,MYO9B |
| 7 | 5,925,000 | 6,075,000 | 80 | 1185 | 0.223000264 | CPAMD8,HICE1 |
| 7 | 6,000,000 | 6,150,000 | 81 | 1624 | 0.447830774 | CPAMD8,F2RL3,SIN3B |
| 7 | 6,075,000 | 6,225,000 | 82 | 1409 | 0.144355901 | CPAMD8,F2RL3,NWD1,SIN3B |
| 7 | 6,150,000 | 6,300,000 | 83 | 1368 | 0.946367348 | NWD1,TMEM38A |
| 7 | 6,225,000 | 6,375,000 | 84 | 1258 | 1.147221122 | MED26,TMEM38A,ENSBTAG00000013613 |
| 7 | 6,300,000 | 6,450,000 | 85 | 839 | 0.864441982 | C19orf44,CHERP,MED26,SLC35E1,TMEM38A,ENSBTAG000013613,ENSBTAG00000027878 |
| 7 | 6,375,000 | 6,525,000 | 86 | 982 | 0.35012144 | C19orf44,CALR3,CHERP,EPS15L1,MED26,SLC35E1,ENSBTAG00000027878 |
| 7 | 6,450,000 | 6,600,000 | 87 | 1258 | -1.036066826 | CALR3,EPS15L1 |
| 7 | 6,525,000 | 6,675,000 | 88 | 1298 | -1.120420184 | EPS15L1 |
| 7 | 6,600,000 | 6,750,000 | 89 | 887 | -0.186401037 | ENSBTAG00000047589 |
| 7 | 6,675,000 | 6,825,000 | 90 | 262 | -0.728604798 | ENSBTAG00000047589 |
| 7 | 7,650,000 | 7,800,000 | 103 | 25 | -0.241372372 | |
| 7 | 7,725,000 | 7,875,000 | 104 | 639 | 0.176543272 | AP1M1,CIB3,FAM32A |
| 7 | 7,800,000 | 7,950,000 | 105 | 934 | 0.514904938 | AP1M1,CIB3,FAM32A,HSH2D,RAB8A,TPM4 |
| 7 | 7,875,000 | 8,025,000 | 106 | 1015 | 0.519985795 | CIB3,HSH2D,RAB8A,TPM4,ENSBTAG00000039983,ENSBTAG00000047796 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 7,950,000 | 8,100,000 | 107 | 1438 | 0.602186385 | ENSBTAG00000009069,ENSBTAG00000033092,ENSBTAG0000039983,ENSBTAG00000047796 |
| 7 | 8,025,000 | 8,175,000 | 108 | 1821 | 1.014822892 | ENSBTAG00000009069,ENSBTAG00000018736,ENSBTAG0000033092,ENSBTAG00000033146,ENSBTAG00000045972,ENSBTAG00000047215 |
| 7 | 8,100,000 | 8,250,000 | 109 | 1599 | 1.058065193 | ENSBTAG00000008335,ENSBTAG00000018736,ENSBTAG0000033146,ENSBTAG00000037458,ENSBTAG00000038980,ENSBTAG00000039921,ENSBTAG00000045972,ENSBTAG00000047215 |
| 7 | 8,175,000 | 8,325,000 | 110 | 1055 | 1.02483772 | OR10H1,ENSBTAG00000006488,ENSBTAG00000008335,ENSBTAG00000037458,ENSBTAG00000038980,ENSBTAG0000039921 |
| 7 | 8,250,000 | 8,400,000 | 111 | 1151 | 1.063464678 | OR10H1,ENSBTAG00000006216,ENSBTAG00000006488,ENSBTAG00000039337 |
| 7 | 8,325,000 | 8,475,000 | 112 | 909 | 1.121144947 | CYP4F2,ENSBTAG00000006216,ENSBTAG00000038549,ENSBTAG00000039337 |
| 7 | 8,400,000 | 8,550,000 | 113 | 499 | 0.842898698 | CYP4F2,ENSBTAG00000038549,ENSBTAG00000039319 |
| 7 | 8,475,000 | 8,625,000 | 114 | 454 | 0.275948604 | CYP4F3,ENSBTAG00000025748,ENSBTAG00000038549,ENSBTAG00000039319 |
| 7 | 8,550,000 | 8,700,000 | 115 | 475 | 0.398292456 | CYP4F22,CYP4F3,ENSBTAG00000025748 |
| 7 | 8,625,000 | 8,775,000 | 116 | 405 | 0.928032521 | AKAP8L,CYP4F22,PGLYRP2,RASAL3,WIZ |
| 7 | 8,700,000 | 8,850,000 | 117 | 330 | 0.656069769 | AKAP8,AKAP8L,PGLYRP2,RASAL3,WIZ |
| 7 | 8,775,000 | 8,925,000 | 118 | 278 | 0.501429444 | AKAP8,AKAP8L,BRD4,EPHX3 |
| 7 | 8,850,000 | 9,000,000 | 119 | 359 | 1.041763282 | BRD4,EPHX3,NOTCH3,ENSBTAG00000040305 |
| 7 | 8,925,000 | 9,075,000 | 120 | 505 | 1.015128421 | ILVBL,NOTCH3,SYDE1,ENSBTAG00000002686,ENSBTAG0000040305 |
| 7 | 9,000,000 | 9,150,000 | 121 | 817 | 0.922720366 | CASP14,ILVBL,SYDE1,ENSBTAG00000002686,ENSBTAG000011496,ENSBTAG00000040305 |
| 7 | 9,075,000 | 9,225,000 | 122 | 1111 | 0.875809862 | CASP14,CCDC105,SLC1A6,ENSBTAG00000011496 |
| 7 | 9,150,000 | 9,300,000 | 123 | 1139 | -0.050992671 | CCDC105,OR7C2,SLC1A6,ENSBTAG00000027699,ENSBTAG00000039533 |
| 7 | 9,225,000 | 9,375,000 | 124 | 728 | -1.040859997 | OR7C2,ENSBTAG00000027699,ENSBTAG00000039533 |
| 7 | 9,300,000 | 9,450,000 | 125 | 316 | -0.572864606 | ENSBTAG00000045638 |
| 7 | 9,375,000 | 9,525,000 | 126 | 956 | 0.014298516 | ENSBTAG00000036175,ENSBTAG00000045638,ENSBTAG0000047429,ENSBTAG00000047888 |
| 7 | 9,450,000 | 9,600,000 | 127 | 1398 | 0.520202259 | ENSBTAG00000034909,ENSBTAG00000036175,ENSBTAG0000036331,ENSBTAG00000047429,ENSBTAG00000047888,ENSBTAG00000048056 |
| 7 | 9,525,000 | 9,675,000 | 128 | 1137 | 0.3165562 | ENSBTAG00000034909,ENSBTAG00000036331,ENSBTAG0000048015,ENSBTAG00000048056 |
| 7 | 9,600,000 | 9,750,000 | 129 | 1600 | 0.802532788 | ENSBTAG00000038533,ENSBTAG00000046423,ENSBTAG0000048015 |
| 7 | 9,675,000 | 9,825,000 | 130 | 1889 | 0.994979447 | ENSBTAG00000038533,ENSBTAG00000046423 |
| 7 | 9,750,000 | 9,900,000 | 131 | 1452 | 0.984553863 | |
| 7 | 9,825,000 | 9,975,000 | 132 | 1058 | 0.973508421 | ENSBTAG00000046297 |
| 7 | 9,900,000 | 10,050,000 | 133 | 1003 | 0.781292388 | ENSBTAG00000046297,ENSBTAG00000046945,ENSBTAG0000048208 |
| 7 | 9,975,000 | 10,125,000 | 134 | 1421 | 0.698672892 | ENSBTAG00000046945,ENSBTAG00000048208 |
| 7 | 10,050,000 | 10,200,000 | 135 | 1581 | 0.597459187 | ENSBTAG00000022663,ENSBTAG00000024397,ENSBTAG0000039877 |
| 7 | 10,125,000 | 10,275,000 | 136 | 1749 | -1.51276217 | ENSBTAG00000022663,ENSBTAG00000024397,ENSBTAG0000039877,ENSBTAG00000047539 |
| 7 | 10,200,000 | 10,350,000 | 137 | 1651 | -1.922995617 | ENSBTAG00000046233,ENSBTAG00000047539 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 10,275,000 | 10,425,000 | 138 | 1492 | 0.379870291 | ENSBTAG00000046233,ENSBTAG00000048072 |
| 7 | 10,350,000 | 10,500,000 | 139 | 1508 | 0.152812447 | ENSBTAG00000047817,ENSBTAG00000048066,ENSBTAG0000048072 |
| 7 | 10,425,000 | 10,575,000 | 140 | 1225 | 0.452003931 | ENSBTAG00000046513,ENSBTAG00000047817,ENSBTAG0000048066 |
| 7 | 10,500,000 | 10,650,000 | 141 | 1265 | 0.480807309 | ENSBTAG00000046513 |
| 7 | 10,575,000 | 10,725,000 | 142 | 1290 | 0.322340797 | ENSBTAG00000047244,ENSBTAG00000048193 |
| 7 | 10,650,000 | 10,800,000 | 143 | 1278 | 0.586594459 | ENSBTAG00000047244,ENSBTAG00000048193 |
| 7 | 10,725,000 | 10,875,000 | 144 | 1201 | 0.701517688 | |
| 7 | 10,800,000 | 10,950,000 | 145 | 1092 | -0.377084327 | ENSBTAG00000046958,ENSBTAG00000047696 |
| 7 | 10,875,000 | 11,025,000 | 146 | 1708 | -0.974956739 | ENSBTAG00000034917,ENSBTAG00000035241,ENSBTAG0000046958,ENSBTAG00000047696 |
| 7 | 10,950,000 | 11,100,000 | 147 | 1945 | -0.476552172 | ENSBTAG00000034917,ENSBTAG00000035241 |
| 7 | 11,025,000 | 11,175,000 | 148 | 1369 | -0.488582211 | ENSBTAG00000045561,ENSBTAG00000046163 |
| 7 | 11,100,000 | 11,250,000 | 149 | 1384 | -0.082879375 | ENSBTAG00000045561,ENSBTAG00000046163,ENSBTAG0000046397 |
| 7 | 11,175,000 | 11,325,000 | 150 | 1949 | 0.57030902 | ENSBTAG00000045927,ENSBTAG00000046397,ENSBTAG0000046798,ENSBTAG00000047576 |
| 7 | 11,250,000 | 11,400,000 | 151 | 1600 | 0.289448002 | ENSBTAG00000045927,ENSBTAG00000046798,ENSBTAG0000047433,ENSBTAG00000047576 |
| 7 | 11,325,000 | 11,475,000 | 152 | 935 | -0.754485363 | ENSBTAG00000014365,ENSBTAG00000047433,ENSBTAG0000047576 |
| 7 | 11,400,000 | 11,550,000 | 153 | 1106 | -0.366043627 | ENSBTAG00000014365 |
| 7 | 11,475,000 | 11,625,000 | 154 | 1284 | 0.23983312 | ENSBTAG00000026148,ENSBTAG00000033061 |
| 7 | 11,550,000 | 11,700,000 | 155 | 1257 | 0.303602091 | ENSBTAG00000026148,ENSBTAG00000033061 |
| 7 | 11,625,000 | 11,775,000 | 156 | 1248 | 0.646856627 | ENSBTAG00000026148,ENSBTAG00000033055 |
| 7 | 11,700,000 | 11,850,000 | 157 | 1244 | 0.970078889 | ENSBTAG00000003528,ENSBTAG00000033055 |
| 7 | 11,775,000 | 11,925,000 | 158 | 960 | 0.956456649 | ENSBTAG00000003528 |
| 7 | 11,850,000 | 12,000,000 | 159 | 1147 | 0.37860909 | |
| 7 | 11,925,000 | 12,075,000 | 160 | 1432 | 0.443240471 | ENSBTAG00000025908 |
| 7 | 12,000,000 | 12,150,000 | 161 | 672 | 0.791773748 | ENSBTAG00000025908 |
| 7 | 12,075,000 | 12,225,000 | 162 | 595 | 0.833780789 | EMR3,ZNF333 |
| 7 | 12,150,000 | 12,300,000 | 163 | 1057 | 0.728514497 | EMR3,ZNF333 |
| 7 | 12,225,000 | 12,375,000 | 164 | 732 | 0.271933092 | DNAJB1,EMR3,NDUFB7,TECR |
| 7 | 12,300,000 | 12,450,000 | 165 | 421 | -0.117711276 | DDX39,DNAJB1,EP1,GIPC1,NDUFB7,PKN1,TECR |
| 7 | 12,375,000 | 12,525,000 | 166 | 544 | 0.041089711 | CD97,DDX39,EP1,GIPC1,PKN1 |
| 7 | 12,450,000 | 12,600,000 | 167 | 653 | 0.363629949 | CD97,DDX39 |
| 7 | 12,525,000 | 12,675,000 | 168 | 387 | 0.741569218 | LPHN1 |
| 7 | 12,600,000 | 12,750,000 | 169 | 164 | -0.119103838 | ASF1B,C19orf67,IL27RA,LPHN1,MIR1199,PALM3,PRKACA |
| 7 | 12,675,000 | 12,825,000 | 170 | 199 | 0.018851531 | ASF1B,C19orf67,HGNC:9982,IL27RA,MIR1199,PALM3,PRKACA,RLN3,RPL13A |
| 7 | 12,750,000 | 12,900,000 | 171 | 309 | 0.402740462 | C19orf57,CC2D1A,DCAF15,HGNC:9982,IL27RA,PODNL1,RLN3,RPL13A |
| 7 | 12,825,000 | 12,975,000 | 172 | 312 | 0.64386399 | C19orf57,C7H19orf53,CC2D1A,CCDC130,DCAF15,HGNC:9982,MRI1,NANOS3,PODNL1,ZSWIM4 |
| 7 | 12,900,000 | 13,050,000 | 173 | 360 | 0.810276428 | C19orf57,C7H19orf53,CCDC130,MRI1,NANOS3,ZSWIM4 |
| 7 | 12,975,000 | 13,125,000 | 174 | 695 | 0.773326399 | ZSWIM4 |
| 7 | 13,050,000 | 13,200,000 | 175 | 850 | 0.521300829 | |
| 7 | 13,125,000 | 13,275,000 | 176 | 781 | 0.435743945 | CACNA1A |
| 7 | 13,200,000 | 13,350,000 | 177 | 946 | 0.429413489 | CACNA1A |
| 7 | 13,275,000 | 13,425,000 | 178 | 1047 | -0.210777476 | CACNA1A |
| 7 | 13,350,000 | 13,500,000 | 179 | 762 | -0.956337455 | CACNA1A |
| 7 | 13,425,000 | 13,575,000 | 180 | 396 | -1.146630892 | CACNA1A,IER2,NACC1,STX10,TRMT1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 13,500,000 | 13,650,000 | 181 | 326 | -5.038064562 | CACNA1A,IER2,LYL1,NACC1,NFIX,STX10,TRMT1 |
| 7 | 13,575,000 | 13,725,000 | 182 | 279 | -5.086856553 | GADD45GIP1,LYL1,NFIX,RAD23A,TRMT1 |
| 7 | 13,650,000 | 13,800,000 | 183 | 218 | -0.220169312 | CALR,DNASE2,FARSA,GADD45GIP1,GCDH,KLF1,MAST1,NF IX,RAD23A,SYCE2 |
| 7 | 13,725,000 | 13,875,000 | 184 | 306 | 0.522948167 | CALR,DNASE2,FARSA,GCDH,HOOK2,JUNB,KLF1,MAST1,PR DX2,RAD23A,RNASEH2A,RTBDN,SYCE2 |
| 7 | 13,800,000 | 13,950,000 | 185 | 401 | 1.080883223 | ASNA1,BEST2,C7H19orf43,DHPS,FBXW9,HOOK2,JUNB,MA ST1,MORG1,PRDX2,RNASEH2A,RTBDN,TNPO2,WDR83OS, ENSBTAG00000006251 |
| 7 | 13,875,000 | 14,025,000 | 186 | 416 | 1.063402002 | ASNA1,BEST2,C7H19orf43,DHPS,FBXW9,MAN2B1,MORG1, TNPO2,WDR83OS,ZNF791,ENSBTAG00000006251 |
| 7 | 13,950,000 | 14,100,000 | 187 | 619 | -0.52438709 | MAN2B1,WDR83OS,ZNF791 |
| 7 | 14,025,000 | 14,175,000 | 188 | 971 | 0.403243328 | |
| 7 | 14,100,000 | 14,250,000 | 189 | 996 | 1.201701417 | |
| 7 | 14,175,000 | 14,325,000 | 190 | 1111 | 0.674284407 | MUC16,ENSBTAG00000021529 |
| 7 | 14,250,000 | 14,400,000 | 191 | 1462 | 0.265577513 | MUC16,ENSBTAG00000021529 |
| 7 | 14,325,000 | 14,475,000 | 192 | 1501 | 0.265057965 | MUC16 |
| 7 | 14,400,000 | 14,550,000 | 193 | 1210 | 0.282799918 | OR1M1 |
| 7 | 14,475,000 | 14,625,000 | 194 | 915 | 0.078305621 | OR1M1,ENSBTAG00000022640,ENSBTAG00000023623,EN SBTAG00000032142 |
| 7 | 14,550,000 | 14,700,000 | 195 | 1250 | -0.411711828 | ENSBTAG00000022640,ENSBTAG00000023623,ENSBTAG0 0000032142,ENSBTAG00000038714,ENSBTAG0000003913 0,ENSBTAG00000040157 |
| 7 | 14,625,000 | 14,775,000 | 196 | 1407 | -0.703835921 | OR7D2,ZNF317,ENSBTAG00000038510,ENSBTAG0000003 8714,ENSBTAG00000039130,ENSBTAG00000040157 |
| 7 | 14,700,000 | 14,850,000 | 197 | 1374 | 0.202897536 | OR7D2,ZNF317,ENSBTAG00000038510 |
| 7 | 14,775,000 | 14,925,000 | 198 | 1574 | 0.028711201 | OR7G2,ENSBTAG00000035395,ENSBTAG00000039809 |
| 7 | 14,850,000 | 15,000,000 | 199 | 1632 | -1.382884563 | OR7G2,ENSBTAG00000035395,ENSBTAG00000039809,EN SBTAG00000040482,ENSBTAG00000046808,ENSBTAG000 00046982 |
| 7 | 14,925,000 | 15,075,000 | 200 | 1957 | -0.319921672 | ENSBTAG00000004369,ENSBTAG00000040482,ENSBTAG0 0000046808,ENSBTAG00000046982,ENSBTAG0000004792 1 |
| 7 | 15,000,000 | 15,150,000 | 201 | 1805 | 0.790116671 | ENSBTAG00000004369,ENSBTAG00000046564,ENSBTAG0 0000046982,ENSBTAG00000047921 |
| 7 | 15,075,000 | 15,225,000 | 202 | 1559 | 0.61974616 | ENSBTAG00000046139,ENSBTAG00000046249,ENSBTAG0 0000046564,ENSBTAG00000047799 |
| 7 | 15,150,000 | 15,300,000 | 203 | 1729 | 0.883650583 | ENSBTAG00000046139,ENSBTAG00000046249,ENSBTAG0 0000047414,ENSBTAG00000047799 |
| 7 | 15,225,000 | 15,375,000 | 204 | 1580 | 0.64260969 | ZNF699,ENSBTAG00000039493,ENSBTAG00000046139,EN SBTAG00000047414 |
| 7 | 15,300,000 | 15,450,000 | 205 | 1081 | -0.07404378 | ZNF266,ZNF699,ENSBTAG00000039493,ENSBTAG0000004 6265 |
| 7 | 15,375,000 | 15,525,000 | 206 | 585 | 0.060005992 | FBXL12,ZNF266,ENSBTAG00000035777,ENSBTAG0000004 6265 |
| 7 | 15,450,000 | 15,600,000 | 207 | 455 | -0.300277524 | FBXL12,OLFM2,PIN1,ZNF266,ENSBTAG00000035777 |
| 7 | 15,525,000 | 15,675,000 | 208 | 609 | -0.050278857 | IGHV6- 1,OLFM2,PIN1,ENSBTAG00000045635,ENSBTAG00000047 507 |
| 7 | 15,600,000 | 15,750,000 | 209 | 667 | 0.484616403 | IGHV6- 1,ENSBTAG00000045635,ENSBTAG00000046813,ENSBTA G00000047177,ENSBTAG00000047507 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 15,675,000 | 15,825,000 | 210 | 839 | 0.721340433 | COL5A3,RDH8,ENSBTAG00000046813,ENSBTAG00000047177 |
| 7 | 15,750,000 | 15,900,000 | 211 | 1075 | 0.644493808 | ANGPTL6,C7H19orf66,COL5A3,EIF3G,P2RY11,PPAN-P2RY11,RDH8,ENSBTAG00000015557 |
| 7 | 15,825,000 | 15,975,000 | 212 | 1178 | 0.700720927 | ANGPTL6,C7H19orf66,DNMT1,EIF3G,P2RY11,PPAN-P2RY11,S1PR2,ENSBTAG00000015557 |
| 7 | 15,900,000 | 16,050,000 | 213 | 1109 | 0.764473037 | DNMT1,EIF3G,ICAM1,MRPL4,S1PR2 |
| 7 | 15,975,000 | 16,125,000 | 214 | 909 | 0.610597612 | FDX1L,ICAM1,ICAM3,ICAM4,ICAM5,MRPL4,RAVER1,S1PR2,TYK2,ZGLP1 |
| 7 | 16,050,000 | 16,200,000 | 215 | 921 | 0.562396624 | CDC37,FDX1L,ICAM1,ICAM3,ICAM4,ICAM5,PDE4A,RAVER1,TYK2,ZGLP1 |
| 7 | 16,125,000 | 16,275,000 | 216 | 958 | 0.778224801 | CDC37,KEAP1,PDE4A,S1PR5,TYK2 |
| 7 | 16,200,000 | 16,350,000 | 217 | 911 | 0.645887447 | AP1M2,ATG4D,CDKN2D,KEAP1,KRI1,PDE4A,S1PR5,SLC44A2 |
| 7 | 16,275,000 | 16,425,000 | 218 | 896 | 0.362321065 | AP1M2,ATG4D,CDKN2D,ILF3,KRI1,QTRT1,SLC44A2 |
| 7 | 16,350,000 | 16,500,000 | 219 | 985 | 0.625746423 | DNM2,ILF3,QTRT1,SLC44A2 |
| 7 | 16,425,000 | 16,575,000 | 220 | 984 | 0.728271873 | C19orf38,CARM1,DNM2,TMED1 |
| 7 | 16,500,000 | 16,650,000 | 221 | 834 | 0.584186793 | C19orf38,C7H19orf52,CARM1,DNM2,SMARCA4,TMED1,YIPF2,ENSBTAG00000032364 |
| 7 | 16,575,000 | 16,725,000 | 222 | 599 | -0.388980727 | C7H19orf52,CARM1,SMARCA4,YIPF2,ENSBTAG00000032364 |
| 7 | 16,650,000 | 16,800,000 | 223 | 417 | -1.579370657 | LDLR,SMARCA4 |
| 7 | 16,725,000 | 16,875,000 | 224 | 605 | -0.85757581 | DOCK6,KANK2,LDLR,SMARCA4,SPC24 |
| 7 | 16,800,000 | 16,950,000 | 225 | 983 | -0.223516738 | C19orf80,DOCK6,KANK2,LDLR,SPC24,TSPAN16 |
| 7 | 16,875,000 | 17,025,000 | 226 | 1032 | 0.858349181 | C19orf80,CCDC151,CCDC159,DOCK6,EPOR,RAB3D,RGL3,SWSAP1,TMEM205,TSPAN16,ENSBTAG00000008192 |
| 7 | 16,950,000 | 17,100,000 | 227 | 838 | 1.092846753 | CCDC151,CCDC159,ECSIT,ELAVL3,EPOR,PRKCSH,RAB3D,RGL3,SWSAP1,TMEM205,ZNF653,ENSBTAG00000008192 |
| 7 | 17,025,000 | 17,175,000 | 228 | 814 | 1.025001005 | ACP5,CCDC151,CNN1,ECSIT,ELAVL3,ELOF1,PRKCSH,ZNF653,ENSBTAG00000040153 |
| 7 | 17,100,000 | 17,250,000 | 229 | 920 | 0.946166676 | ACP5,CNN1,ELOF1,ZNF558,ENSBTAG00000040153 |
| 7 | 17,175,000 | 17,325,000 | 230 | 980 | 0.881599844 | IR-A,ZNF558,ENSBTAG00000046336,ENSBTAG00000047612 |
| 7 | 17,250,000 | 17,400,000 | 231 | 872 | 0.588923358 | IR-A,ENSBTAG00000046336,ENSBTAG00000047612 |
| 7 | 17,325,000 | 17,475,000 | 232 | 821 | 0.616452191 | IR-A |
| 7 | 17,400,000 | 17,550,000 | 233 | 940 | 0.573639258 | IR-A,ENSBTAG00000032125,ENSBTAG00000040507 |
| 7 | 17,475,000 | 17,625,000 | 234 | 900 | -0.307358549 | C19orf45,MCOLN1,PEX11G,PNPLA6,ZNF358,ENSBTAG00000032125,ENSBTAG00000040507 |
| 7 | 17,550,000 | 17,700,000 | 235 | 733 | -0.59429574 | C19orf45,CAMSAP3,MCOLN1,PEX11G,PNPLA6,XAB2,ZNF358,ENSBTAG00000040507 |
| 7 | 17,625,000 | 17,775,000 | 236 | 626 | 0.20556059 | CAMSAP3,FCER2,MCEMP1,PCP2,PNPLA6,RETN,STXBP2,TRAPPC5,XAB2 |
| 7 | 17,700,000 | 17,850,000 | 237 | 477 | 0.310791027 | CD209,CLEC4G,EVI5L,FCER2,MCEMP1,PCP2,RETN,STXBP2,TRAPPC5 |
| 7 | 17,775,000 | 17,925,000 | 238 | 282 | 0.096713496 | CD209,CLEC4G,CTXN1,EVI5L,LRR8E,MAP2K7,SNAPC2,TIMM44,ENSBTAG00000044018 |
| 7 | 17,850,000 | 18,000,000 | 239 | 184 | 0.242870207 | CTXN1,ELAVL1,EVI5L,LRR8E,MAP2K7,SNAPC2,TIMM44,ENSBTAG00000044018 |
| 7 | 17,925,000 | 18,075,000 | 240 | 398 | 0.736711788 | CCL25,ELAVL1,FBN3 |
| 7 | 18,000,000 | 18,150,000 | 241 | 555 | 0.410271111 | CCL25,CERS4,FBN3 |
| 7 | 18,075,000 | 18,225,000 | 242 | 702 | -0.67529557 | CD320,CERS4,FBN3,KANK3,NDUFA7,RPS28 |
| 7 | 18,150,000 | 18,300,000 | 243 | 649 | -0.273339524 | ANGPTL4,CD320,CERS4,KANK3,MARCH2,NDUFA7,RAB11B,RPS28,ENSBTAG00000021039 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 18,225,000 | 18,375,000 | 244 | 397 | 0.840770888 | ANGPTL4,MARCH2,MYO1F,PRAM1,RAB11B,ZNF414,ENSBTAG00000021039 |
| 7 | 18,300,000 | 18,450,000 | 245 | 514 | 0.850231781 | ADAMTS10,MYO1F,PRAM1,ZNF414,ENSBTAG00000021039 |
| 7 | 18,375,000 | 18,525,000 | 246 | 976 | 0.952307358 | ACTL9,ADAMTS10,MYO1F,OR2Z1,ENSBTAG00000002284 |
| 7 | 18,450,000 | 18,600,000 | 247 | 975 | 1.029315558 | ACTL9,OR2Z1,ENSBTAG00000002284,ENSBTAG00000045860 |
| 7 | 18,525,000 | 18,675,000 | 248 | 743 | 0.747192898 | ENSBTAG00000045860 |
| 7 | 18,600,000 | 18,750,000 | 249 | 1009 | 0.655684023 | ENSBTAG00000038981 |
| 7 | 18,675,000 | 18,825,000 | 250 | 1041 | 0.739951315 | EMR1,ENSBTAG00000038981 |
| 7 | 18,750,000 | 18,900,000 | 251 | 954 | 0.462308296 | EMR1,VAV1 |
| 7 | 18,825,000 | 18,975,000 | 252 | 799 | 0.436779026 | EMR1,GPR108,SH2D3A,TRIP10,VAV1,ENSBTAG00000013834 |
| 7 | 18,900,000 | 19,050,000 | 253 | 387 | 0.790822011 | C3,GPR108,SH2D3A,TRIP10,VAV1,ENSBTAG00000013834 |
| 7 | 18,975,000 | 19,125,000 | 254 | 382 | -0.503772206 | C3,GPR108,TNFSF14 |
| 7 | 19,050,000 | 19,200,000 | 255 | 602 | -0.012853933 | CD70,TNFSF14,TNFSF9 |
| 7 | 19,125,000 | 19,275,000 | 256 | 809 | 0.921785711 | CD70,DENND1C,KHSRP,SLC25A23,SLC25A41,TNFSF9,TUBB4A,ENSBTAG00000046865 |
| 7 | 19,200,000 | 19,350,000 | 257 | 949 | 1.055720656 | ACER1,ALKBH7,CLPP,DENND1C,GTF2F1,KHSRP,PSPN,SLC25A23,SLC25A41,TUBB4A,ENSBTAG00000046865 |
| 7 | 19,275,000 | 19,425,000 | 258 | 806 | 1.165074431 | ACER1,ALKBH7,CLPP,GTF2F1,MLLT1,PSPN |
| 7 | 19,350,000 | 19,500,000 | 259 | 833 | 0.883780036 | ACER1,ACSBG2,MLLT1 |
| 7 | 19,425,000 | 19,575,000 | 260 | 891 | 0.305373353 | ACSBG2,MLLT1,RFX2 |
| 7 | 19,500,000 | 19,650,000 | 261 | 1065 | 0.52324835 | RANBP3,RFX2 |
| 7 | 19,575,000 | 19,725,000 | 262 | 1118 | 0.963098767 | CAPS,NDUFA11,RANBP3,RFX2,VMAC |
| 7 | 19,650,000 | 19,800,000 | 263 | 941 | 0.640256801 | CAPS,CATSPERD,NDUFA11,NRTN,PRR22,RANBP3,VMAC,ENSBTAG0000000414,ENSBTAG00000011842 |
| 7 | 19,725,000 | 19,875,000 | 264 | 764 | 0.26427897 | C19orf70,CATSPERD,HSD11B1L,LONP1,NRTN,PRR22,RPL36,SAFB,ENSBTAG0000000414,ENSBTAG00000011842 |
| 7 | 19,800,000 | 19,950,000 | 265 | 561 | 0.68578051 | C19orf70,CATSPERD,HSD11B1L,LONP1,RPL36,SAFB,SAFB2,ENSBTAG00000035584 |
| 7 | 19,875,000 | 20,025,000 | 266 | 739 | 0.720424532 | SAFB,SAFB2,ENSBTAG00000035584 |
| 7 | 19,950,000 | 20,100,000 | 267 | 883 | 0.556628805 | ZNRF4 |
| 7 | 20,025,000 | 20,175,000 | 268 | 502 | 0.771281245 | ZNRF4 |
| 7 | 20,100,000 | 20,250,000 | 269 | 153 | 1.268938259 | PTPRS |
| 7 | 20,175,000 | 20,325,000 | 270 | 211 | 0.271489907 | KDM4B,PTPRS |
| 7 | 20,250,000 | 20,400,000 | 271 | 388 | -1.71834536 | KDM4B,PTPRS |
| 7 | 20,325,000 | 20,475,000 | 272 | 415 | -1.993240511 | ARRDC5,KDM4B,UHRF1 |
| 7 | 20,400,000 | 20,550,000 | 273 | 326 | -1.616465119 | ARRDC5,M6PRBP1,TICAM1,UHRF1 |
| 7 | 20,475,000 | 20,625,000 | 274 | 386 | -1.073053188 | ARRDC5,FEM1A,M6PRBP1,TICAM1 |
| 7 | 20,550,000 | 20,700,000 | 275 | 441 | 0.158462325 | C7H19orf10,DPP9,FEM1A,TICAM1,TNFAIP8L1 |
| 7 | 20,625,000 | 20,775,000 | 276 | 251 | 1.034325311 | C7H19orf10,DPP9,TNFAIP8L1 |
| 7 | 20,700,000 | 20,850,000 | 277 | 78 | 0.353363857 | LRG1,PLIN4,PLIN5,SEMA6B,TNFAIP8L1,ENSBTAG00000013251 |
| 7 | 20,775,000 | 20,925,000 | 278 | 139 | -0.509044076 | CHAF1A,LRG1,PLIN4,PLIN5,SEMA6B,SH3GL1,UBXN6,ENSBTAG00000013251 |
| 7 | 20,850,000 | 21,000,000 | 279 | 202 | -1.284155698 | CHAF1A,FSD1,MPND,SH3GL1,STAP2,TMIGD2,UBXN6,ENSBTAG00000013251 |
| 7 | 20,925,000 | 21,075,000 | 280 | 198 | -0.903411824 | ANKRD24,CCDC94,EBI3,FSD1,MPND,SH3GL1,SHD,STAP2,TMIGD2 |
| 7 | 21,000,000 | 21,150,000 | 281 | 183 | 0.375807599 | ANKRD24,CCDC94,CREB3L3,EBI3,MAP2K2,SHD,SIRT6,TMIGD2 |
| 7 | 21,075,000 | 21,225,000 | 282 | 199 | 0.57187131 | CREB3L3,MAP2K2,PIAS4,SIRT6,ZBTB7A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 21,150,000 | 21,300,000 | 283 | 187 | 0.08898551 | DAPK3,EEF2,ITGB1BP3,MAP2K2,PIAS4,ZBTB7A,ENSBTAG0000045914 |
| 7 | 21,225,000 | 21,375,000 | 284 | 636 | 0.591336585 | ATCAY,DAPK3,EEF2,ITGB1BP3,PIAS4,ENSBTAG00000045914 |
| 7 | 21,300,000 | 21,450,000 | 285 | 869 | 0.697612397 | APBA3,ATCAY,MATK,MRPL54,RAX2,ZFR2,ZO3 |
| 7 | 21,375,000 | 21,525,000 | 286 | 616 | 0.921994835 | APBA3,MATK,MRPL54,PIP5K1C,RAX2,ZFR2,ZO3 |
| 7 | 21,450,000 | 21,600,000 | 287 | 635 | 0.803545475 | CACTIN,HMG20B,MFSD12,PIP5K1C,TBXA2R,ZO3,ENSBTAG0000008789 |
| 7 | 21,525,000 | 21,675,000 | 288 | 509 | -1.206927733 | C7H19orf71,CACTIN,DOHH,FZR1,HMG20B,MFSD12,PIP5K1C,SMIM24,TBXA2R,ENSBTAG0000008789 |
| 7 | 21,600,000 | 21,750,000 | 289 | 337 | -1.876053638 | C7H19orf71,DOHH,FZR1,MFSD12,NFIC,SMIM24 |
| 7 | 21,675,000 | 21,825,000 | 290 | 269 | 0.252949463 | CELF5,NFIC |
| 7 | 21,750,000 | 21,900,000 | 291 | 264 | 0.840954888 | CELF5,NCLN,S1PR4 |
| 7 | 21,825,000 | 21,975,000 | 292 | 376 | 0.432174671 | CELF5,GNA11,GNA15,NCLN,S1PR4 |
| 7 | 21,900,000 | 22,050,000 | 293 | 549 | 0.317928542 | AES,GNA11,GNA15,TLE2,TLE6 |
| 7 | 21,975,000 | 22,125,000 | 294 | 549 | 0.370276178 | AES,TLE2,TLE6,ZNF554,ZNF555,ZNF77 |
| 7 | 22,050,000 | 22,200,000 | 295 | 417 | 0.594701967 | DIRAS1,SGTA,SLC39A3,THOP1,ZNF554,ZNF555,ZNF77 |
| 7 | 22,125,000 | 22,275,000 | 296 | 391 | 1.052608244 | DIRAS1,GNG7,SGTA,SLC39A3,THOP1 |
| 7 | 22,200,000 | 22,350,000 | 297 | 392 | 0.794007416 | GNG7 |
| 7 | 22,275,000 | 22,425,000 | 298 | 542 | -0.132407764 | GADD45B,GNG7,ENSBTAG00000024041,ENSBTAG00000045755 |
| 7 | 22,350,000 | 22,500,000 | 299 | 846 | 0.355471468 | GADD45B,LMNB2,TIMM13,TMPRSS9,ENSBTAG00000024041,ENSBTAG00000045755 |
| 7 | 22,425,000 | 22,575,000 | 300 | 698 | 0.731398638 | C19orf35,LINGO3,LMNB2,LSM7,SPPL2B,TIMM13,TMPRSS9 |
| 7 | 22,500,000 | 22,650,000 | 301 | 344 | 0.264393186 | C19orf35,DOT1L,LINGO3,LSM7,OAZ1,SPPL2B |
| 7 | 22,575,000 | 22,725,000 | 302 | 294 | 0.455428394 | AMH,AP3D1,DOT1L,JSRP1,OAZ1,PLEKHJ1,SF3A2 |
| 7 | 22,650,000 | 22,800,000 | 303 | 330 | 0.679097555 | AMH,AP3D1,DOT1L,IZUMO4,JSRP1,MKNK2,MOB3A,PLEKHJ1,SF3A2 |
| 7 | 22,725,000 | 22,875,000 | 304 | 465 | 0.685423367 | AP3D1,IZUMO4,MKNK2,MOB3A,SEPT8 |
| 7 | 22,800,000 | 22,950,000 | 305 | 755 | 0.691994537 | CCNI2,KIF3A,SEPT8 |
| 7 | 22,875,000 | 23,025,000 | 306 | 788 | 0.606639485 | CCNI2,IL13,IL4,KIF3A,SEPT8 |
| 7 | 22,950,000 | 23,100,000 | 307 | 767 | 0.837557867 | IL13,IL4,KIF3A,RAD50 |
| 7 | 23,025,000 | 23,175,000 | 308 | 552 | 0.673762398 | RAD50 |
| 7 | 23,100,000 | 23,250,000 | 309 | 201 | -0.432120131 | IL5,IRF1,RAD50 |
| 7 | 23,175,000 | 23,325,000 | 310 | 707 | 0.879304249 | IL5,IRF1 |
| 7 | 23,250,000 | 23,400,000 | 311 | 1060 | 1.091056676 | SLC22A4,SLC22A5 |
| 7 | 23,325,000 | 23,475,000 | 312 | 1012 | 0.931896405 | PDLIM4,SLC22A4,SLC22A5 |
| 7 | 23,400,000 | 23,550,000 | 313 | 1049 | 0.81561181 | P4HA2,PDLIM4,SLC22A4 |
| 7 | 23,475,000 | 23,625,000 | 314 | 1004 | 1.031165039 | P4HA2,RPS4X |
| 7 | 23,550,000 | 23,700,000 | 315 | 995 | 0.883263562 | CSF2,RPS4X |
| 7 | 23,625,000 | 23,775,000 | 316 | 897 | 0.908133807 | CSF2,IL3 |
| 7 | 23,700,000 | 23,850,000 | 317 | 724 | 0.793885189 | ACSL6,IL3 |
| 7 | 23,775,000 | 23,925,000 | 318 | 629 | -0.798625755 | ACSL6 |
| 7 | 23,850,000 | 24,000,000 | 319 | 573 | -4.165892959 | ACSL6,FNIP1 |
| 7 | 23,925,000 | 24,075,000 | 320 | 348 | -5.710807316 | FNIP1 |
| 7 | 24,000,000 | 24,150,000 | 321 | 248 | -1.431039637 | FNIP1,ENSBTAG00000000682 |
| 7 | 24,075,000 | 24,225,000 | 322 | 347 | -1.051480284 | ENSBTAG00000000682 |
| 7 | 24,150,000 | 24,300,000 | 323 | 353 | -1.515655365 | ENSBTAG00000000682 |
| 7 | 24,225,000 | 24,375,000 | 324 | 430 | -0.993180482 | CDC42SE2,ENSBTAG00000000682 |
| 7 | 24,300,000 | 24,450,000 | 325 | 590 | 0.270156529 | CDC42SE2 |
| 7 | 24,375,000 | 24,525,000 | 326 | 789 | 0.169481424 | CDC42SE2,HINT1,LYRM7 |
| 7 | 24,450,000 | 24,600,000 | 327 | 873 | -0.47134619 | HINT1,LYRM7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 7 | 24,525,000 | 24,675,000 | 328 | 661 | -0.362303631 | |
| 7 | 24,600,000 | 24,750,000 | 329 | 773 | 1.110998989 | |
| 7 | 24,675,000 | 24,825,000 | 330 | 1174 | 1.204127941 | |
| 7 | 24,750,000 | 24,900,000 | 331 | 981 | 0.943471199 | |
| 7 | 24,825,000 | 24,975,000 | 332 | 847 | 0.55709406 | |
| 7 | 24,900,000 | 25,050,000 | 333 | 1063 | 0.771131715 | |
| 7 | 24,975,000 | 25,125,000 | 334 | 922 | 0.767326841 | |
| 7 | 25,050,000 | 25,200,000 | 335 | 802 | 0.54473665 | CHSY3 |
| 7 | 25,125,000 | 25,275,000 | 336 | 691 | 0.521468496 | CHSY3 |
| 7 | 25,200,000 | 25,350,000 | 337 | 467 | 0.592480118 | CHSY3 |
| 7 | 25,275,000 | 25,425,000 | 338 | 593 | 0.714110456 | CHSY3 |
| 7 | 25,350,000 | 25,500,000 | 339 | 693 | 0.597528811 | CHSY3 |
| 7 | 25,425,000 | 25,575,000 | 340 | 846 | 0.496408986 | CHSY3 |
| 7 | 25,500,000 | 25,650,000 | 341 | 1045 | 0.591592199 | ADAMTS19,KIAA1024L |
| 7 | 25,575,000 | 25,725,000 | 342 | 892 | 0.782995309 | ADAMTS19,KIAA1024L |
| 7 | 25,650,000 | 25,800,000 | 343 | 783 | 0.35825865 | ADAMTS19 |
| 7 | 25,725,000 | 25,875,000 | 344 | 610 | 0.414414389 | ADAMTS19 |
| 7 | 25,800,000 | 25,950,000 | 345 | 760 | 1.36411087 | ADAMTS19 |
| 7 | 25,875,000 | 26,025,000 | 346 | 1039 | 1.175643621 | ADAMTS19 |
| 7 | 25,950,000 | 26,100,000 | 347 | 933 | -0.491515882 | |
| 7 | 26,025,000 | 26,175,000 | 348 | 991 | -1.433851774 | ISOC1 |
| 7 | 26,100,000 | 26,250,000 | 349 | 831 | -1.119861665 | ISOC1,SLC27A6 |
| 7 | 26,175,000 | 26,325,000 | 350 | 659 | -0.599904702 | ISOC1,SLC27A6 |
| 7 | 26,250,000 | 26,400,000 | 351 | 832 | -0.230963165 | SLC27A6 |
| 7 | 26,325,000 | 26,475,000 | 352 | 668 | -0.742518727 | SLC27A6 |
| 7 | 26,400,000 | 26,550,000 | 353 | 607 | -1.029881362 | |
| 7 | 26,475,000 | 26,625,000 | 354 | 549 | -0.719477577 | |
| 7 | 26,550,000 | 26,700,000 | 355 | 365 | -1.894748064 | FBN2 |
| 7 | 26,625,000 | 26,775,000 | 356 | 436 | -0.389952262 | FBN2 |
| 7 | 26,700,000 | 26,850,000 | 357 | 549 | 0.711364333 | FBN2 |
| 7 | 26,775,000 | 26,925,000 | 358 | 625 | 0.573379083 | FBN2 |
| 7 | 26,850,000 | 27,000,000 | 359 | 743 | -1.41924278 | FBN2,SLC12A2 |
| 7 | 26,925,000 | 27,075,000 | 360 | 926 | -1.805273256 | SLC12A2 |
| 7 | 27,000,000 | 27,150,000 | 361 | 1104 | 0.089447428 | SLC12A2 |
| 7 | 27,075,000 | 27,225,000 | 362 | 1016 | 0.019009098 | |
| 7 | 27,150,000 | 27,300,000 | 363 | 849 | -0.167657 | |
| 7 | 27,225,000 | 27,375,000 | 364 | 765 | 0.353734243 | |
| 7 | 27,300,000 | 27,450,000 | 365 | 701 | 0.279236055 | |
| 7 | 27,375,000 | 27,525,000 | 366 | 641 | -0.101725565 | CTXN3 |
| 7 | 27,450,000 | 27,600,000 | 367 | 579 | -0.349303933 | CTXN3 |
| 7 | 27,525,000 | 27,675,000 | 368 | 846 | 0.1291471 | |
| 7 | 27,600,000 | 27,750,000 | 369 | 1233 | -0.715130367 | PRRC1 |
| 7 | 27,675,000 | 27,825,000 | 370 | 1244 | -1.893923276 | MEGF10,PRRC1 |
| 7 | 27,750,000 | 27,900,000 | 371 | 1001 | -1.002728949 | MEGF10 |
| 7 | 27,825,000 | 27,975,000 | 372 | 913 | 0.115525184 | MEGF10 |
| 7 | 27,900,000 | 28,050,000 | 373 | 974 | -0.386539366 | MEGF10 |
| 7 | 27,975,000 | 28,125,000 | 374 | 1002 | -0.361202312 | MEGF10 |
| 7 | 28,050,000 | 28,200,000 | 375 | 968 | -0.299755313 | C5orf63 |
| 7 | 28,125,000 | 28,275,000 | 376 | 870 | -0.413746983 | C5orf63,MARCH3 |
| 7 | 28,200,000 | 28,350,000 | 377 | 998 | 0.543003498 | |
| 7 | 28,275,000 | 28,425,000 | 378 | 984 | 0.272158631 | LMNB1,MARCH3 |
| 7 | 28,350,000 | 28,500,000 | 379 | 758 | 0.183372191 | LMNB1,MARCH3 |
| 7 | 28,425,000 | 28,575,000 | 380 | 663 | 0.853150583 | ALDH7A1,LMNB1,PHAX,TEX43 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 7 | 28,500,000 | 28,650,000 | 381 | 508 | 0.784019066 | ALDH7A1,PHAX,TEX43 |
| 7 | 28,575,000 | 28,725,000 | 382 | 567 | 0.382149862 | ALDH7A1,GRAMD3 |
| 7 | 28,650,000 | 28,800,000 | 383 | 537 | 0.740366439 | GRAMD3 |
| 7 | 28,725,000 | 28,875,000 | 384 | 577 | 0.251867638 | GRAMD3 |
| 7 | 28,800,000 | 28,950,000 | 385 | 1178 | 0.20734165 | |
| 7 | 28,875,000 | 29,025,000 | 386 | 1100 | 0.214169531 | |
| 7 | 28,950,000 | 29,100,000 | 387 | 582 | -0.013422055 | |
| 7 | 29,025,000 | 29,175,000 | 388 | 569 | -0.411066585 | |
| 7 | 29,100,000 | 29,250,000 | 389 | 789 | -0.645527637 | |
| 7 | 29,175,000 | 29,325,000 | 390 | 843 | -0.154201735 | |
| 7 | 29,250,000 | 29,400,000 | 391 | 701 | -0.397243898 | |
| 7 | 29,325,000 | 29,475,000 | 392 | 620 | -3.915264068 | |
| 7 | 29,400,000 | 29,550,000 | 393 | 485 | -3.665831643 | |
| 7 | 29,475,000 | 29,625,000 | 394 | 679 | -0.016535791 | |
| 7 | 29,550,000 | 29,700,000 | 395 | 880 | 0.246340213 | ENSBTAG00000046696 |
| 7 | 29,625,000 | 29,775,000 | 396 | 1045 | -0.238774234 | ENSBTAG00000046696 |
| 7 | 29,700,000 | 29,850,000 | 397 | 900 | 0.229989497 | |
| 7 | 29,775,000 | 29,925,000 | 398 | 508 | 0.840476883 | |
| 7 | 29,850,000 | 30,000,000 | 399 | 638 | 0.569604904 | |
| 7 | 29,925,000 | 30,075,000 | 400 | 845 | 0.765481004 | |
| 7 | 30,000,000 | 30,150,000 | 401 | 732 | 0.627331649 | |
| 7 | 30,075,000 | 30,225,000 | 402 | 858 | 0.444515137 | |
| 7 | 30,150,000 | 30,300,000 | 403 | 959 | 0.418683985 | |
| 7 | 30,225,000 | 30,375,000 | 404 | 515 | 0.245303125 | ZNF608 |
| 7 | 30,300,000 | 30,450,000 | 405 | 327 | 0.401621396 | ZNF608 |
| 7 | 30,375,000 | 30,525,000 | 406 | 436 | 0.278153205 | ZNF608 |
| 7 | 30,450,000 | 30,600,000 | 407 | 473 | 0.427376527 | ZNF608 |
| 7 | 30,525,000 | 30,675,000 | 408 | 730 | -0.829560895 | |
| 7 | 30,600,000 | 30,750,000 | 409 | 1008 | -0.738636544 | |
| 7 | 30,675,000 | 30,825,000 | 410 | 827 | -0.150954228 | |
| 7 | 30,750,000 | 30,900,000 | 411 | 445 | -0.233193767 | |
| 7 | 30,825,000 | 30,975,000 | 412 | 651 | -0.616675167 | |
| 7 | 30,900,000 | 31,050,000 | 413 | 659 | -1.072454278 | |
| 7 | 30,975,000 | 31,125,000 | 414 | 345 | -1.292235393 | |
| 7 | 31,050,000 | 31,200,000 | 415 | 655 | 0.433868339 | ENSBTAG00000047546 |
| 7 | 31,125,000 | 31,275,000 | 416 | 1225 | 0.378268262 | ENSBTAG00000047546 |
| 7 | 31,200,000 | 31,350,000 | 417 | 1087 | 0.664829611 | |
| 7 | 31,275,000 | 31,425,000 | 418 | 633 | 1.083190418 | |
| 7 | 31,350,000 | 31,500,000 | 419 | 634 | 0.954190244 | CSNK1G3 |
| 7 | 31,425,000 | 31,575,000 | 420 | 446 | 0.936727397 | CSNK1G3 |
| 7 | 31,500,000 | 31,650,000 | 421 | 521 | -0.990804741 | CSNK1G3 |
| 7 | 31,575,000 | 31,725,000 | 422 | 930 | -0.835280776 | CEP120,CSNK1G3 |
| 7 | 31,650,000 | 31,800,000 | 423 | 826 | 0.005447795 | CEP120 |
| 7 | 31,725,000 | 31,875,000 | 424 | 567 | 0.206109299 | CEP120 |
| 7 | 31,800,000 | 31,950,000 | 425 | 645 | -0.557340315 | |
| 7 | 31,875,000 | 32,025,000 | 426 | 742 | -1.979886681 | PRDM6 |
| 7 | 31,950,000 | 32,100,000 | 427 | 773 | -3.253999102 | PRDM6 |
| 7 | 32,025,000 | 32,175,000 | 428 | 612 | -2.020581356 | PPIC,PRDM6,SNX24 |
| 7 | 32,100,000 | 32,250,000 | 429 | 658 | -0.278997758 | PPIC,SNX24 |
| 7 | 32,175,000 | 32,325,000 | 430 | 936 | -1.668252246 | SNX24 |
| 7 | 32,250,000 | 32,400,000 | 431 | 1007 | -2.246377409 | SNX2,SNX24 |
| 7 | 32,325,000 | 32,475,000 | 432 | 873 | -1.518977415 | SNX2 |
| 7 | 32,400,000 | 32,550,000 | 433 | 640 | -0.439633829 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 7 | 32,475,000 | 32,625,000 | 434 | 833 | 0.924271734 | |
| 7 | 32,550,000 | 32,700,000 | 435 | 1157 | 0.519167161 | |
| 7 | 32,625,000 | 32,775,000 | 436 | 935 | -0.049666339 | SNCAIP |
| 7 | 32,700,000 | 32,850,000 | 437 | 609 | 0.223310612 | SNCAIP |
| 7 | 32,775,000 | 32,925,000 | 438 | 488 | 0.013041464 | |
| 7 | 32,850,000 | 33,000,000 | 439 | 654 | 0.41148222 | ZNF474 |
| 7 | 32,925,000 | 33,075,000 | 440 | 621 | 0.170619023 | ZNF474 |
| 7 | 33,000,000 | 33,150,000 | 441 | 411 | 0.709383752 | LOX,SRFBP1,ZNF474 |
| 7 | 33,075,000 | 33,225,000 | 442 | 412 | 1.086697341 | LOX,SRFBP1 |
| 7 | 33,150,000 | 33,300,000 | 443 | 345 | 0.916693077 | SRFBP1 |
| 7 | 33,225,000 | 33,375,000 | 444 | 640 | 0.435574961 | FTMT |
| 7 | 33,300,000 | 33,450,000 | 445 | 769 | -0.817901782 | FTMT |
| 7 | 33,375,000 | 33,525,000 | 446 | 469 | -2.106228774 | |
| 7 | 33,450,000 | 33,600,000 | 447 | 564 | 0.116186591 | |
| 7 | 33,525,000 | 33,675,000 | 448 | 923 | 0.21270974 | RPLP2 |
| 7 | 33,600,000 | 33,750,000 | 449 | 1133 | -0.722901091 | RPLP2 |
| 7 | 33,675,000 | 33,825,000 | 450 | 1583 | 0.164915927 | |
| 7 | 33,750,000 | 33,900,000 | 451 | 1369 | 0.536613529 | |
| 7 | 33,825,000 | 33,975,000 | 452 | 1030 | 0.035319256 | |
| 7 | 33,900,000 | 34,050,000 | 453 | 1465 | -0.42827894 | |
| 7 | 33,975,000 | 34,125,000 | 454 | 1435 | -0.13829153 | ENSBTAG00000046914 |
| 7 | 34,050,000 | 34,200,000 | 455 | 1152 | -0.04187198 | ENSBTAG00000046914,ENSBTAG00000047190 |
| 7 | 34,125,000 | 34,275,000 | 456 | 1265 | -0.321052769 | ENSBTAG00000047190 |
| 7 | 34,200,000 | 34,350,000 | 457 | 1402 | -0.961302783 | |
| 7 | 34,275,000 | 34,425,000 | 458 | 1690 | -0.015424966 | |
| 7 | 34,350,000 | 34,500,000 | 459 | 1836 | 1.022649869 | |
| 7 | 34,425,000 | 34,575,000 | 460 | 1704 | 0.601741295 | PRR16 |
| 7 | 34,500,000 | 34,650,000 | 461 | 1584 | 0.651864567 | PRR16,ENSBTAG00000046688 |
| 7 | 34,575,000 | 34,725,000 | 462 | 1071 | 0.350054419 | ENSBTAG00000046688 |
| 7 | 34,650,000 | 34,800,000 | 463 | 980 | -1.124524694 | |
| 7 | 34,725,000 | 34,875,000 | 464 | 1144 | -0.454998118 | |
| 7 | 34,800,000 | 34,950,000 | 465 | 817 | 0.275591649 | |
| 7 | 34,875,000 | 35,025,000 | 466 | 558 | -0.141606905 | |
| 7 | 34,950,000 | 35,100,000 | 467 | 731 | -0.24100472 | |
| 7 | 35,025,000 | 35,175,000 | 468 | 1014 | 0.317334345 | |
| 7 | 35,100,000 | 35,250,000 | 469 | 953 | 0.653679468 | |
| 7 | 35,175,000 | 35,325,000 | 470 | 900 | 0.756994842 | |
| 7 | 35,250,000 | 35,400,000 | 471 | 807 | 0.589691946 | |
| 7 | 35,325,000 | 35,475,000 | 472 | 867 | -0.347324794 | |
| 7 | 35,400,000 | 35,550,000 | 473 | 1166 | -0.432573009 | |
| 7 | 35,475,000 | 35,625,000 | 474 | 787 | -0.597171099 | FAM170A |
| 7 | 35,550,000 | 35,700,000 | 475 | 626 | 0.004445212 | FAM170A,HSD17B4 |
| 7 | 35,625,000 | 35,775,000 | 476 | 1107 | 0.125528627 | HSD17B4 |
| 7 | 35,700,000 | 35,850,000 | 477 | 1177 | -0.170486743 | HSD17B4,TNFAIP8 |
| 7 | 35,775,000 | 35,925,000 | 478 | 936 | -2.21891238 | TNFAIP8 |
| 7 | 35,850,000 | 36,000,000 | 479 | 538 | -4.224370254 | DMXL1,TNFAIP8 |
| 7 | 35,925,000 | 36,075,000 | 480 | 253 | -1.200911521 | DMXL1 |
| 7 | 36,000,000 | 36,150,000 | 481 | 328 | -0.613961714 | DMXL1 |
| 7 | 36,075,000 | 36,225,000 | 482 | 511 | 0.210284085 | DMXL1,DTWD2 |
| 7 | 36,150,000 | 36,300,000 | 483 | 933 | -0.08389084 | DTWD2 |
| 7 | 36,225,000 | 36,375,000 | 484 | 930 | -0.474548181 | DTWD2 |
| 7 | 36,300,000 | 36,450,000 | 485 | 857 | -0.057192753 | |
| 7 | 36,375,000 | 36,525,000 | 486 | 811 | -0.272833271 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 36,450,000 | 36,600,000 | 487 | 610 | -1.522810567 | |
| 7 | 36,525,000 | 36,675,000 | 488 | 1028 | -0.319541117 | |
| 7 | 36,600,000 | 36,750,000 | 489 | 1114 | 0.796034063 | |
| 7 | 36,675,000 | 36,825,000 | 490 | 831 | 1.12381296 | |
| 7 | 36,750,000 | 36,900,000 | 491 | 872 | 0.991317468 | |
| 7 | 36,825,000 | 36,975,000 | 492 | 728 | 0.182839471 | |
| 7 | 36,900,000 | 37,050,000 | 493 | 800 | 0.478007987 | |
| 7 | 36,975,000 | 37,125,000 | 494 | 1412 | 0.702707704 | |
| 7 | 37,050,000 | 37,200,000 | 495 | 1455 | 0.517693446 | |
| 7 | 37,125,000 | 37,275,000 | 496 | 905 | 0.622030143 | |
| 7 | 37,200,000 | 37,350,000 | 497 | 970 | -0.149248141 | |
| 7 | 37,275,000 | 37,425,000 | 498 | 1105 | -0.185926864 | |
| 7 | 37,350,000 | 37,500,000 | 499 | 814 | -0.906139243 | |
| 7 | 37,425,000 | 37,575,000 | 500 | 795 | -3.119146245 | |
| 7 | 37,500,000 | 37,650,000 | 501 | 900 | -1.030934704 | |
| 7 | 37,575,000 | 37,725,000 | 502 | 970 | 1.06952007 | |
| 7 | 37,650,000 | 37,800,000 | 503 | 1042 | 0.702354354 | |
| 7 | 37,725,000 | 37,875,000 | 504 | 1120 | 0.918934112 | |
| 7 | 37,800,000 | 37,950,000 | 505 | 1045 | 1.066099542 | |
| 7 | 37,875,000 | 38,025,000 | 506 | 1021 | 0.53984921 | |
| 7 | 37,950,000 | 38,100,000 | 507 | 1063 | -0.160982936 | |
| 7 | 38,025,000 | 38,175,000 | 508 | 1009 | -0.894658607 | |
| 7 | 38,100,000 | 38,250,000 | 509 | 1004 | -1.45703545 | |
| 7 | 38,175,000 | 38,325,000 | 510 | 1093 | -1.001694606 | |
| 7 | 38,250,000 | 38,400,000 | 511 | 958 | -0.932509666 | |
| 7 | 38,325,000 | 38,475,000 | 512 | 593 | -2.220013902 | |
| 7 | 38,400,000 | 38,550,000 | 513 | 494 | -1.262794115 | |
| 7 | 38,475,000 | 38,625,000 | 514 | 692 | -0.012963261 | |
| 7 | 38,550,000 | 38,700,000 | 515 | 847 | 0.060933112 | |
| 7 | 38,625,000 | 38,775,000 | 516 | 643 | -0.630439977 | SEMA6A |
| 7 | 38,700,000 | 38,850,000 | 517 | 586 | -2.025071295 | SEMA6A |
| 7 | 38,775,000 | 38,925,000 | 518 | 777 | -1.530512139 | SEMA6A |
| 7 | 38,850,000 | 39,000,000 | 519 | 846 | 0.064391456 | COMMD10 |
| 7 | 38,925,000 | 39,075,000 | 520 | 773 | 0.706639867 | COMMD10 |
| 7 | 39,000,000 | 39,150,000 | 521 | 636 | 0.39989567 | COMMD10 |
| 7 | 39,075,000 | 39,225,000 | 522 | 640 | 0.589215208 | ARL10,CLTB,COMMD10,HIGD2A,NOP16 |
| 7 | 39,150,000 | 39,300,000 | 523 | 699 | 1.134784807 | ARL10,CLTB,FAF2,HIGD2A,NOP16 |
| 7 | 39,225,000 | 39,375,000 | 524 | 715 | 0.984504756 | CLTB,FAF2,RNF44 |
| 7 | 39,300,000 | 39,450,000 | 525 | 694 | 0.193012006 | CDHR2,FAF2,GPRIN1,RNF44,SNCB |
| 7 | 39,375,000 | 39,525,000 | 526 | 602 | -0.445027944 | CDHR2,EIF4E1B,GPRIN1,SNCB,TSPAN17 |
| 7 | 39,450,000 | 39,600,000 | 527 | 745 | -0.447814354 | EIF4E1B,SNCB,TSPAN17 |
| 7 | 39,525,000 | 39,675,000 | 528 | 684 | -0.349958345 | |
| 7 | 39,600,000 | 39,750,000 | 529 | 496 | 0.18135456 | HK3,UIMC1,UNC5A |
| 7 | 39,675,000 | 39,825,000 | 530 | 461 | -0.048833253 | HK3,UIMC1,UNC5A |
| 7 | 39,750,000 | 39,900,000 | 531 | 340 | -0.755989037 | UIMC1,ZNF346 |
| 7 | 39,825,000 | 39,975,000 | 532 | 237 | -0.951621883 | FGFR4,UIMC1,ZNF346 |
| 7 | 39,900,000 | 40,050,000 | 533 | 174 | 0.812281307 | FGFR4,NSD1,ZNF346 |
| 7 | 39,975,000 | 40,125,000 | 534 | 220 | 0.900389708 | NSD1 |
| 7 | 40,050,000 | 40,200,000 | 535 | 377 | -0.324122854 | LMAN2,MXD3,NSD1,PRELID1,RAB24 |
| 7 | 40,125,000 | 40,275,000 | 536 | 553 | 0.169479626 | F12,LMAN2,MXD3,PFN3,PRELID1,RAB24,RGS14,SLC34A1 |
| 7 | 40,200,000 | 40,350,000 | 537 | 390 | 1.005909679 | DBN1,F12,GRK6,LMAN2,PDLIM7,PFN3,PRR7,RGS14,SLC34A1 |
| 7 | 40,275,000 | 40,425,000 | 538 | 158 | 0.332895728 | DBN1,DDX41,DOK3,FAM193B,GRK6,PDLIM7,PRR7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 40,350,000 | 40,500,000 | 539 | 139 | -0.395687722 | B4GALT7,DDX41,DOK3,EEF1A1,FAM193B,PDLIM7,TMED9,ENSBTAG00000039886 |
| 7 | 40,425,000 | 40,575,000 | 540 | 418 | 0.26850245 | B4GALT7,EEF1A1,N4BP3,TMED9,ENSBTAG00000039886 |
| 7 | 40,500,000 | 40,650,000 | 541 | 562 | 0.06441772 | HNRNPAB,N4BP3,NHP2,PHYKPL,RMND5B |
| 7 | 40,575,000 | 40,725,000 | 542 | 544 | -1.527095768 | COL23A1,HNRNPAB,N4BP3,NHP2,PHYKPL,RMND5B |
| 7 | 40,650,000 | 40,800,000 | 543 | 659 | -0.666328817 | COL23A1,PHYKPL |
| 7 | 40,725,000 | 40,875,000 | 544 | 611 | 0.322205105 | |
| 7 | 40,800,000 | 40,950,000 | 545 | 842 | 0.403799238 | |
| 7 | 40,875,000 | 41,025,000 | 546 | 843 | 0.418408149 | |
| 7 | 40,950,000 | 41,100,000 | 547 | 613 | 0.307193651 | |
| 7 | 41,025,000 | 41,175,000 | 548 | 650 | -0.711246629 | CLK4,ZNF354A |
| 7 | 41,100,000 | 41,250,000 | 549 | 577 | -1.597709194 | CLK4,PROP1,ZNF354A,ENSBTAG00000030704 |
| 7 | 41,175,000 | 41,325,000 | 550 | 425 | -0.387502579 | OR2Y1,PROP1,ZNF354A,ENSBTAG00000030704,ENSBTAG00000046963 |
| 7 | 41,250,000 | 41,400,000 | 551 | 276 | 0.358000305 | MGAT1,OR2Y1,ENSBTAG00000046963 |
| 7 | 41,325,000 | 41,475,000 | 552 | 813 | 0.496597157 | MGAT1,ZFP62,ENSBTAG00000024713,ENSBTAG00000046424 |
| 7 | 41,400,000 | 41,550,000 | 553 | 1353 | 0.51726828 | ZFP62,ENSBTAG00000024713,ENSBTAG00000046424,ENSBTAG00000047182 |
| 7 | 41,475,000 | 41,625,000 | 554 | 1111 | 0.616340501 | OR2V1,ENSBTAG00000039706,ENSBTAG00000047182,ENSBTAG00000047300 |
| 7 | 41,550,000 | 41,700,000 | 555 | 1185 | 0.606061918 | BTNL9,OR2V1,ENSBTAG00000039706,ENSBTAG00000047082,ENSBTAG00000047300,ENSBTAG00000047927 |
| 7 | 41,625,000 | 41,775,000 | 556 | 1108 | 0.460974285 | BTNL9,GNB2L1,TRIM41,TRIM7,ENSBTAG00000047082,ENSBTAG00000047927 |
| 7 | 41,700,000 | 41,850,000 | 557 | 993 | -0.604601069 | GNB2L1,IFI47,TRIM41,TRIM52,TRIM7,ENSBTAG00000004815 |
| 7 | 41,775,000 | 41,925,000 | 558 | 1233 | -0.564871232 | IFI47,TRIM52,ENSBTAG00000004815 |
| 7 | 41,850,000 | 42,000,000 | 559 | 1114 | 0.331772908 | ZNF496 |
| 7 | 41,925,000 | 42,075,000 | 560 | 876 | 0.176445642 | NLRP3,ZNF496 |
| 7 | 42,000,000 | 42,150,000 | 561 | 1164 | 0.841755674 | NLRP3,OR2B11,ENSBTAG00000039986 |
| 7 | 42,075,000 | 42,225,000 | 562 | 1058 | 0.850609179 | NLRP3,OR2B11,ENSBTAG00000039986,ENSBTAG00000048069,ENSBTAG00000048315 |
| 7 | 42,150,000 | 42,300,000 | 563 | 801 | 1.043275854 | OR2G2,ENSBTAG00000039484,ENSBTAG00000048069,ENSBTAG00000048315 |
| 7 | 42,225,000 | 42,375,000 | 564 | 1096 | 1.381402739 | COX7B,OR2G2,OR2G3,ENSBTAG00000037611,ENSBTAG00000039484,ENSBTAG00000039804 |
| 7 | 42,300,000 | 42,450,000 | 565 | 1024 | 1.152247382 | COX7B,OR2G3,ENSBTAG00000037611,ENSBTAG00000039804 |
| 7 | 42,375,000 | 42,525,000 | 566 | 1046 | 0.908372354 | OR6F1,ENSBTAG00000045691 |
| 7 | 42,450,000 | 42,600,000 | 567 | 936 | 0.989780624 | OR11L1,OR6F1,ENSBTAG00000001761,ENSBTAG00000040109,ENSBTAG00000045691 |
| 7 | 42,525,000 | 42,675,000 | 568 | 711 | 0.723227745 | OR11L1,TRIM58,ENSBTAG00000001761,ENSBTAG00000025293,ENSBTAG00000038623,ENSBTAG00000040109 |
| 7 | 42,600,000 | 42,750,000 | 569 | 740 | 0.561729619 | TRIM58,ENSBTAG00000025293,ENSBTAG00000038623,ENSBTAG00000039797,ENSBTAG00000039805,ENSBTAG00000046318 |
| 7 | 42,675,000 | 42,825,000 | 570 | 956 | 0.180069631 | OR2AK2,ENSBTAG00000039797,ENSBTAG00000039805,ENSBTAG00000046318,ENSBTAG00000047016 |
| 7 | 42,750,000 | 42,900,000 | 571 | 1423 | -0.483058224 | OR2AK2,ENSBTAG00000027241,ENSBTAG00000045733,ENSBTAG00000046417,ENSBTAG00000047016 |
| 7 | 42,825,000 | 42,975,000 | 572 | 1170 | -0.443645322 | ENSBTAG00000027241,ENSBTAG00000045733,ENSBTAG00000046417,ENSBTAG00000046474 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 42,900,000 | 43,050,000 | 573 | 858 | 1.012844501 | OR2AJ1,ENSBTAG00000046474 |
| 7 | 42,975,000 | 43,125,000 | 574 | 1279 | 0.815150964 | OR2AJ1,ENSBTAG00000030725,ENSBTAG00000047180 |
| 7 | 43,050,000 | 43,200,000 | 575 | 1245 | 0.698372379 | OR2L13,ENSBTAG00000022690,ENSBTAG00000030725,ENSBTAG00000047180,ENSBTAG00000048025 |
| 7 | 43,125,000 | 43,275,000 | 576 | 1021 | 1.00010679 | OR2L13,ENSBTAG00000009497,ENSBTAG00000022690,ENSBTAG00000048025 |
| 7 | 43,200,000 | 43,350,000 | 577 | 1291 | 1.138935596 | OR14C36,OR2M4,ENSBTAG00000009497,ENSBTAG00000019925,ENSBTAG00000038564 |
| 7 | 43,275,000 | 43,425,000 | 578 | 997 | 1.039537956 | OR14C36,OR2M4,OR2T1,OR2T6,ENSBTAG00000019925,ENSBTAG00000038564 |
| 7 | 43,350,000 | 43,500,000 | 579 | 926 | 0.226558783 | OR2T1,OR2T6,ENSBTAG00000003551,ENSBTAG000000034743,ENSBTAG00000038722 |
| 7 | 43,425,000 | 43,575,000 | 580 | 1147 | -0.20697642 | ENSBTAG00000003551,ENSBTAG00000021098,ENSBTAG00000034743,ENSBTAG00000038722 |
| 7 | 43,500,000 | 43,650,000 | 581 | 631 | -0.357271506 | ENSBTAG00000021098,ENSBTAG00000046950 |
| 7 | 43,575,000 | 43,725,000 | 582 | 761 | -0.27237345 | ENSBTAG00000030714,ENSBTAG00000046950,ENSBTAG00000047415 |
| 7 | 43,650,000 | 43,800,000 | 583 | 1534 | -1.335622026 | ENSBTAG00000030714,ENSBTAG00000047415,ENSBTAG00000047519 |
| 7 | 43,725,000 | 43,875,000 | 584 | 1829 | -0.445772716 | LYPD8,MGC137030,ENSBTAG00000016065,ENSBTAG00000047519 |
| 7 | 43,800,000 | 43,950,000 | 585 | 1383 | 0.424681346 | LYPD8,MGC137030,SH3BP5L,ENSBTAG00000016065 |
| 7 | 43,875,000 | 44,025,000 | 586 | 908 | 0.014415843 | FLJ20531,SH3BP5L,ZNF672,ENSBTAG00000023507 |
| 7 | 43,950,000 | 44,100,000 | 587 | 836 | 0.52110039 | FLJ20531,PGBD2,ZNF672,ENSBTAG00000023507,ENSBTAG00000046200 |
| 7 | 44,025,000 | 44,175,000 | 588 | 786 | 0.877548078 | PGBD2,ENSBTAG00000009273,ENSBTAG00000046200,ENSBTAG00000046953 |
| 7 | 44,100,000 | 44,250,000 | 589 | 471 | 0.950089057 | ENSBTAG00000009273,ENSBTAG00000046953 |
| 7 | 44,175,000 | 44,325,000 | 590 | 143 | 0.93903734 | ENSBTAG00000009273 |
| 7 | 44,250,000 | 44,400,000 | 591 | 39 | -5.2987098 | |
| 7 | 44,325,000 | 44,475,000 | 592 | 190 | 0.756756392 | ENSBTAG00000045589 |
| 7 | 44,400,000 | 44,550,000 | 593 | 535 | 0.832128405 | ENSBTAG00000045589,ENSBTAG00000045623,ENSBTAG00000046115 |
| 7 | 44,475,000 | 44,625,000 | 594 | 711 | 0.618278468 | MIER2,PPAP2C,ENSBTAG00000045623,ENSBTAG00000046115 |
| 7 | 44,550,000 | 44,700,000 | 595 | 664 | 0.774611779 | MIER2,PPAP2C,THEG |
| 7 | 44,625,000 | 44,775,000 | 596 | 583 | 0.935674802 | C2CD4C,MADCAM1,ODF3L2,SHC2,THEG |
| 7 | 44,700,000 | 44,850,000 | 597 | 557 | 0.854758222 | BSG,C2CD4C,CDC34,GZMM,HCN2,MADCAM1,ODF3L2,SHC2,TPGS1 |
| 7 | 44,775,000 | 44,925,000 | 598 | 424 | 1.092179122 | BSG,CDC34,FGF22,FSTL3,GZMM,HCN2,MADCAM1,POLRMT,PRSS57,RNF126,TPGS1 |
| 7 | 44,850,000 | 45,000,000 | 599 | 227 | 1.004936233 | AZU1,ELA2,FGF22,FSTL3,HCN2,MISP,PALM,POLRMT,PRSS57,PRTN3,RNF126 |
| 7 | 44,925,000 | 45,075,000 | 600 | 182 | 0.972807668 | AZU1,CFD,ELA2,KISS1R,MED16,MISP,PALM,PRTN3,PTBP1,R3HDM4,ENSBTAG00000046245 |
| 7 | 45,000,000 | 45,150,000 | 601 | 170 | 0.842838519 | ARID3A,CFD,GRIN3B,KISS1R,MED16,PTBP1,R3HDM4,TMEM259,WDR18,ENSBTAG00000046245 |
| 7 | 45,075,000 | 45,225,000 | 602 | 149 | 0.709614018 | ABCA7,ARID3A,CNN2,GRIN3B,HMHA1,POLR2E,SBNO2,TMEM259,WDR18 |
| 7 | 45,150,000 | 45,300,000 | 603 | 161 | 1.05261312 | ABCA7,C19orf26,CNN2,HMHA1,POLR2E,SBNO2,STK11 |
| 7 | 45,225,000 | 45,375,000 | 604 | 206 | 1.199345371 | ATP5D,C19orf26,C7H19orf24,CIRBP,EFNA2,MIDN,SBNO2,STK11 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 45,300,000 | 45,450,000 | 605 | 302 | 0.405972198 | ATP5D,C7H19orf24,CIRBP,EFNA2,GAMT,MIDN,MUM1,NDUFS7 |
| 7 | 45,375,000 | 45,525,000 | 606 | 305 | 0.246218257 | APC2,C7H19orf25,DAZAP1,GAMT,MUM1,NDUFS7,PCSK4,REEP6,RPS15 |
| 7 | 45,450,000 | 45,600,000 | 607 | 262 | 0.675353874 | APC2,C7H19orf25,DAZAP1,MBD3,PCSK4,PLK5,REEP6,RPS15,TCF3,UQCR11,ENSBTAG00000006662,ENSBTAG00000046263 |
| 7 | 45,525,000 | 45,675,000 | 608 | 317 | 0.868996546 | MBD3,PLK5,TCF3,UQCR11,ENSBTAG00000006662,ENSBTAG00000046263 |
| 7 | 45,600,000 | 45,750,000 | 609 | 291 | 0.976917042 | ATP8B3,ONECUT3,TCF3 |
| 7 | 45,675,000 | 45,825,000 | 610 | 321 | 0.963946068 | ABHD17A,ATP8B3,KLF16,ONECUT3,REXO1 |
| 7 | 45,750,000 | 45,900,000 | 611 | 542 | 1.110967301 | ABHD17A,ATP8B3,CSNK1G2,KLF16,REXO1,SCAMP4 |
| 7 | 45,825,000 | 45,975,000 | 612 | 800 | 1.157662416 | BTBD2,CSNK1G2,SCAMP4 |
| 7 | 45,900,000 | 46,050,000 | 613 | 977 | 1.102193354 | BTBD2,SHROOM1,SOWAHA,ENSBTAG00000046234 |
| 7 | 45,975,000 | 46,125,000 | 614 | 619 | 1.006125109 | AFF4,GDF9,LEAP2,SHROOM1,SOWAHA,UQCRQ,ENSBTAG00000046234 |
| 7 | 46,050,000 | 46,200,000 | 615 | 343 | 0.234078849 | AFF4,GDF9,LEAP2,UQCRQ,ZCCHC10 |
| 7 | 46,125,000 | 46,275,000 | 616 | 570 | 0.616780888 | AFF4,HSPA4,ZCCHC10 |
| 7 | 46,200,000 | 46,350,000 | 617 | 553 | 0.729499262 | HSPA4,ZCCHC10 |
| 7 | 46,275,000 | 46,425,000 | 618 | 934 | -0.006665921 | HSPA4 |
| 7 | 46,350,000 | 46,500,000 | 619 | 871 | -0.096218554 | FSTL4 |
| 7 | 46,425,000 | 46,575,000 | 620 | 677 | -1.213315822 | FSTL4 |
| 7 | 46,500,000 | 46,650,000 | 621 | 1141 | -1.27096089 | FSTL4 |
| 7 | 46,575,000 | 46,725,000 | 622 | 1042 | -0.497646905 | |
| 7 | 46,650,000 | 46,800,000 | 623 | 830 | 0.018799004 | |
| 7 | 46,725,000 | 46,875,000 | 624 | 804 | 0.416660284 | |
| 7 | 46,800,000 | 46,950,000 | 625 | 606 | 0.185247209 | |
| 7 | 46,875,000 | 47,025,000 | 626 | 404 | -3.013012514 | |
| 7 | 46,950,000 | 47,100,000 | 627 | 671 | -3.801690954 | |
| 7 | 47,025,000 | 47,175,000 | 628 | 1176 | -2.396562406 | |
| 7 | 47,100,000 | 47,250,000 | 629 | 1116 | -1.325762223 | C7H5ORF15,VDAC1 |
| 7 | 47,175,000 | 47,325,000 | 630 | 604 | -0.174539118 | C7H5ORF15,VDAC1 |
| 7 | 47,250,000 | 47,400,000 | 631 | 253 | 0.484245916 | SKP1,TCF7,VDAC1 |
| 7 | 47,325,000 | 47,475,000 | 632 | 101 | 0.638705059 | PPP2CA,SKP1,TCF7 |
| 7 | 47,400,000 | 47,550,000 | 633 | 86 | 1.485271236 | CDKL3,PPP2CA,SKP1,UBE2B |
| 7 | 47,475,000 | 47,625,000 | 634 | 151 | 1.454850347 | CDKL3,CDKN2AIPNL,UBE2B |
| 7 | 47,550,000 | 47,700,000 | 635 | 184 | 1.075293996 | CDKN2AIPNL,JADE2 |
| 7 | 47,625,000 | 47,775,000 | 636 | 123 | 0.33760936 | JADE2,SAR1B,SEC24A |
| 7 | 47,700,000 | 47,850,000 | 637 | 160 | -1.320128804 | CAMLG,SAR1B,SEC24A |
| 7 | 47,775,000 | 47,925,000 | 638 | 315 | -0.9427798 | C7H5orf24,CAMLG,DDX46,SEC24A |
| 7 | 47,850,000 | 48,000,000 | 639 | 278 | -0.452084638 | C7H5orf24,DDX46,TXNDC15 |
| 7 | 47,925,000 | 48,075,000 | 640 | 188 | -2.144747369 | CATSPER3,PITX1,TXNDC15 |
| 7 | 48,000,000 | 48,150,000 | 641 | 281 | -1.129547777 | CATSPER3,PITX1 |
| 7 | 48,075,000 | 48,225,000 | 642 | 373 | 0.171206933 | |
| 7 | 48,150,000 | 48,300,000 | 643 | 471 | 0.717148681 | |
| 7 | 48,225,000 | 48,375,000 | 644 | 584 | 0.799466033 | |
| 7 | 48,300,000 | 48,450,000 | 645 | 570 | 0.296663233 | H2AFY |
| 7 | 48,375,000 | 48,525,000 | 646 | 500 | -0.263242338 | H2AFY,TIFAB |
| 7 | 48,450,000 | 48,600,000 | 647 | 732 | 0.86434388 | H2AFY,TIFAB |
| 7 | 48,525,000 | 48,675,000 | 648 | 783 | 0.913977863 | CXCL14,NEUROG1,TIFAB |
| 7 | 48,600,000 | 48,750,000 | 649 | 657 | -1.454782653 | CXCL14,NEUROG1 |
| 7 | 48,675,000 | 48,825,000 | 650 | 705 | -2.023611078 | |
| 7 | 48,750,000 | 48,900,000 | 651 | 884 | 0.116851767 | SLC25A48 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 48,825,000 | 48,975,000 | 652 | 839 | 0.503917577 | FBXL21,IL9,SLC25A48 |
| 7 | 48,900,000 | 49,050,000 | 653 | 605 | 0.611763402 | FBXL21,IL9,LECT2,SLC25A48 |
| 7 | 48,975,000 | 49,125,000 | 654 | 703 | -1.562095806 | FBXL21,LECT2,TGFBI |
| 7 | 49,050,000 | 49,200,000 | 655 | 588 | -3.31487061 | SMAD5,TGFBI |
| 7 | 49,125,000 | 49,275,000 | 656 | 576 | -1.527058012 | SMAD5,TRPC7 |
| 7 | 49,200,000 | 49,350,000 | 657 | 591 | -0.050788042 | SMAD5,TRPC7 |
| 7 | 49,275,000 | 49,425,000 | 658 | 460 | 0.038908824 | TRPC7 |
| 7 | 49,350,000 | 49,500,000 | 659 | 720 | 1.083091615 | TRPC7 |
| 7 | 49,425,000 | 49,575,000 | 660 | 939 | 1.30863915 | |
| 7 | 49,500,000 | 49,650,000 | 661 | 807 | 1.270271014 | |
| 7 | 49,575,000 | 49,725,000 | 662 | 617 | 1.290953963 | |
| 7 | 49,650,000 | 49,800,000 | 663 | 716 | 1.45622471 | |
| 7 | 49,725,000 | 49,875,000 | 664 | 1026 | 1.181265537 | |
| 7 | 49,800,000 | 49,950,000 | 665 | 962 | 0.727634489 | |
| 7 | 49,875,000 | 50,025,000 | 666 | 754 | 0.964237526 | SPOCK1 |
| 7 | 49,950,000 | 50,100,000 | 667 | 654 | 0.987140303 | SPOCK1 |
| 7 | 50,025,000 | 50,175,000 | 668 | 822 | 0.311469611 | |
| 7 | 50,100,000 | 50,250,000 | 669 | 1076 | 0.2060311 | |
| 7 | 50,175,000 | 50,325,000 | 670 | 1031 | 0.686257466 | |
| 7 | 50,250,000 | 50,400,000 | 671 | 1031 | 0.691124147 | |
| 7 | 50,325,000 | 50,475,000 | 672 | 812 | 0.521456109 | |
| 7 | 50,400,000 | 50,550,000 | 673 | 608 | 1.097853362 | |
| 7 | 50,475,000 | 50,625,000 | 674 | 860 | 0.841495972 | |
| 7 | 50,550,000 | 50,700,000 | 675 | 726 | 0.576776005 | KLHL3 |
| 7 | 50,625,000 | 50,775,000 | 676 | 366 | 0.530770824 | KLHL3 |
| 7 | 50,700,000 | 50,850,000 | 677 | 407 | 0.237921405 | HNRPA0,KLHL3 |
| 7 | 50,775,000 | 50,925,000 | 678 | 354 | 0.231357122 | HNRPA0 |
| 7 | 50,850,000 | 51,000,000 | 679 | 208 | 0.385788161 | MYOT,PKD2L2 |
| 7 | 50,925,000 | 51,075,000 | 680 | 174 | -1.127302819 | FAM13B,MYOT,PKD2L2 |
| 7 | 51,000,000 | 51,150,000 | 681 | 306 | -0.01833226 | FAM13B,PKD2L2,WNT8A |
| 7 | 51,075,000 | 51,225,000 | 682 | 302 | 0.410494112 | BRD8,CDC23,KIF20A,NME5,WNT8A |
| 7 | 51,150,000 | 51,300,000 | 683 | 182 | 0.722220803 | BRD8,CDC23,GFRA3,KIF20A,NME5 |
| 7 | 51,225,000 | 51,375,000 | 684 | 190 | 1.402389283 | CDC23,CDC25C,FAM53C,GFRA3,KDM3B,SLBP2 |
| 7 | 51,300,000 | 51,450,000 | 685 | 161 | 1.382953714 | CDC25C,EGR1,FAM53C,GFRA3,KDM3B,REEP2,SLBP2 |
| 7 | 51,375,000 | 51,525,000 | 686 | 245 | 1.173329734 | EGR1,ETF1,HSPA9,KDM3B,REEP2 |
| 7 | 51,450,000 | 51,600,000 | 687 | 440 | 1.085314998 | ETF1,HSPA9 |
| 7 | 51,525,000 | 51,675,000 | 688 | 435 | 0.899487117 | |
| 7 | 51,600,000 | 51,750,000 | 689 | 346 | 0.641415033 | CTNNA1 |
| 7 | 51,675,000 | 51,825,000 | 690 | 365 | 0.877949984 | CTNNA1,LRRTM2 |
| 7 | 51,750,000 | 51,900,000 | 691 | 439 | 0.885223458 | CTNNA1,LRRTM2,SIL1 |
| 7 | 51,825,000 | 51,975,000 | 692 | 338 | 0.817515922 | CTNNA1,GPX4,SIL1 |
| 7 | 51,900,000 | 52,050,000 | 693 | 199 | 0.971927388 | GPX4,SIL1 |
| 7 | 51,975,000 | 52,125,000 | 694 | 221 | 1.036224775 | SIL1 |
| 7 | 52,050,000 | 52,200,000 | 695 | 178 | 0.931220178 | SIL1 |
| 7 | 52,125,000 | 52,275,000 | 696 | 181 | 0.855775095 | PAIP2,SIL1,SLC23A1,ENSBTAG00000006756 |
| 7 | 52,200,000 | 52,350,000 | 697 | 203 | 0.433098876 | DNAJC18,ECSCR,MZB1,PAIP2,PROB1,SLC23A1,SPATA24,ENSBTAG00000006756 |
| 7 | 52,275,000 | 52,425,000 | 698 | 170 | -0.007524293 | DNAJC18,ECSCR,MZB1,PROB1,SLC23A1,SPATA24,TMEM173,UBE2D2,ENSBTAG00000030517 |
| 7 | 52,350,000 | 52,500,000 | 699 | 157 | 0.234653376 | ECSCR,TMEM173,UBE2D2,ENSBTAG00000030517 |
| 7 | 52,425,000 | 52,575,000 | 700 | 163 | 0.777587482 | CXXC5,UBE2D2 |
| 7 | 52,500,000 | 52,650,000 | 701 | 565 | 0.524436719 | CXXC5 |
| 7 | 52,575,000 | 52,725,000 | 702 | 605 | 0.338758881 | NRG2,PSD2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 52,650,000 | 52,800,000 | 703 | 293 | 0.169937217 | NRG2,PSD2 |
| 7 | 52,725,000 | 52,875,000 | 704 | 303 | 0.187126629 | NRG2 |
| 7 | 52,800,000 | 52,950,000 | 705 | 280 | 0.49169036 | |
| 7 | 52,875,000 | 53,025,000 | 706 | 224 | 0.818761629 | IGIP,PURA |
| 7 | 52,950,000 | 53,100,000 | 707 | 265 | 0.781573566 | CYSTM1,IGIP,PURA |
| 7 | 53,025,000 | 53,175,000 | 708 | 314 | -0.310268441 | CYSTM1,PFDN1 |
| 7 | 53,100,000 | 53,250,000 | 709 | 240 | -1.481457479 | CYSTM1,HBEGF,PFDN1,SLC4A9 |
| 7 | 53,175,000 | 53,325,000 | 710 | 211 | -1.64093048 | EIF4EBP3,HBEGF,PFDN1,SLC4A9 |
| 7 | 53,250,000 | 53,400,000 | 711 | 189 | -1.991300974 | EIF4EBP3,SLC4A9 |
| 7 | 53,325,000 | 53,475,000 | 712 | 207 | -3.293342778 | APBB3,CD14,EIF4EBP3,IK,NDUFA2,SLC35A4,SRA1,TMCO6,ENSBTAG00000003987 |
| 7 | 53,400,000 | 53,550,000 | 713 | 525 | -6.483000802 | APBB3,CD14,DND1,EIF4EBP3,HARS,HARS2,IK,NDUFA2,SLC35A4,SRA1,TMCO6,WDR55,ZMAT2,ENSBTAG00000003987 |
| 7 | 53,475,000 | 53,625,000 | 714 | 1113 | -7.948535311 | DND1,HARS,HARS2,IK,PCDHA3,PCDHA5,WDR55,ZMAT2,ENSBTAG00000015439,ENSBTAG00000046717 |
| 7 | 53,550,000 | 53,700,000 | 715 | 951 | -7.92872379 | PCDHA11,PCDHA13,PCDHA3,PCDHA5,ENSBTAG00000015439,ENSBTAG00000046717 |
| 7 | 53,625,000 | 53,775,000 | 716 | 499 | -2.158291006 | PCDHA11,PCDHA13 |
| 7 | 53,700,000 | 53,850,000 | 717 | 564 | 0.836659917 | PCDHA13 |
| 7 | 53,775,000 | 53,925,000 | 718 | 833 | 1.006739949 | PCDHA13,PCDHB1,PCDHB4,ENSBTAG00000045858 |
| 7 | 53,850,000 | 54,000,000 | 719 | 940 | 1.044382516 | PCDHB1,PCDHB16,PCDHB4,PCDHB5,PCDHB6,PCDHB7,ENSBTAG00000045743,ENSBTAG00000045858,ENSBTAG00000045859 |
| 7 | 53,925,000 | 54,075,000 | 720 | 751 | 0.881765435 | PCDHB11,PCDHB14,PCDHB15,PCDHB16,PCDHB5,PCDHB6,PCDHB7,ENSBTAG00000007350,ENSBTAG00000045743,ENSBTAG00000045859 |
| 7 | 54,000,000 | 54,150,000 | 721 | 705 | 0.555162486 | PCDHB11,PCDHB14,PCDHB15,PCDHGA2,PCDHGA3,PCDHGA5,PCDHGA7,PCDHGB1,TAF7,ENSBTAG00000007350,ENSBTAG00000046103 |
| 7 | 54,075,000 | 54,225,000 | 722 | 843 | 0.67738404 | PCDHGA2,PCDHGA3,PCDHGA5,PCDHGA7,PCDHGA8,PCDHGB1,TAF7,ENSBTAG00000046103,ENSBTAG00000047946 |
| 7 | 54,150,000 | 54,300,000 | 723 | 575 | 0.928950652 | DIAPH1,PCDHGA7,PCDHGA8,ENSBTAG00000047946 |
| 7 | 54,225,000 | 54,375,000 | 724 | 242 | 1.165569526 | DIAPH1,PCDHGA8,RELL2 |
| 7 | 54,300,000 | 54,450,000 | 725 | 267 | 1.253750196 | ARAP3,DIAPH1,HDAC3,RELL2 |
| 7 | 54,375,000 | 54,525,000 | 726 | 293 | 1.352421595 | ARAP3,DIAPH1,HDAC3 |
| 7 | 54,450,000 | 54,600,000 | 727 | 550 | 1.35438898 | ARAP3 |
| 7 | 54,525,000 | 54,675,000 | 728 | 451 | 1.282514665 | KIAA0141,PCDH1 |
| 7 | 54,600,000 | 54,750,000 | 729 | 222 | 1.079595482 | GNPDA1,KIAA0141,PCDH1,PCDH12,RNF14 |
| 7 | 54,675,000 | 54,825,000 | 730 | 544 | 1.273399378 | GNPDA1,KIAA0141,PCDH12,RNF14 |
| 7 | 54,750,000 | 54,900,000 | 731 | 453 | 0.955352246 | GNPDA1,ENSBTAG00000018503 |
| 7 | 54,825,000 | 54,975,000 | 732 | 208 | -0.931727751 | ENSBTAG00000018503 |
| 7 | 54,900,000 | 55,050,000 | 733 | 192 | -0.753962069 | ENSBTAG00000012339,ENSBTAG00000016789,ENSBTAG00000045651 |
| 7 | 54,975,000 | 55,125,000 | 734 | 166 | -0.501098302 | NDFIP1,ENSBTAG00000012339,ENSBTAG00000016789,ENSBTAG00000045651 |
| 7 | 55,050,000 | 55,200,000 | 735 | 219 | -1.808634742 | NDFIP1 |
| 7 | 55,125,000 | 55,275,000 | 736 | 205 | -1.576095693 | SPRY4 |
| 7 | 55,200,000 | 55,350,000 | 737 | 182 | 1.062858723 | SPRY4 |
| 7 | 55,275,000 | 55,425,000 | 738 | 203 | -1.264172064 | |
| 7 | 55,350,000 | 55,500,000 | 739 | 443 | -0.442176285 | |
| 7 | 55,425,000 | 55,575,000 | 740 | 563 | 0.321376615 | FGF1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 7 | 55,500,000 | 55,650,000 | 741 | 725 | 0.640645603 | FGF1 |
| 7 | 55,575,000 | 55,725,000 | 742 | 922 | 0.703113469 | FGF1 |
| 7 | 55,650,000 | 55,800,000 | 743 | 827 | 0.708795436 | |
| 7 | 55,725,000 | 55,875,000 | 744 | 727 | 0.851922453 | ARHGAP26 |
| 7 | 55,800,000 | 55,950,000 | 745 | 536 | 0.652342007 | ARHGAP26 |
| 7 | 55,875,000 | 56,025,000 | 746 | 454 | -1.449808682 | ARHGAP26 |
| 7 | 55,950,000 | 56,100,000 | 747 | 517 | -1.845695331 | ARHGAP26 |
| 7 | 56,025,000 | 56,175,000 | 748 | 613 | -0.010065021 | ARHGAP26 |
| 7 | 56,100,000 | 56,250,000 | 749 | 628 | 0.79707549 | ARHGAP26,GR-A |
| 7 | 56,175,000 | 56,325,000 | 750 | 524 | 0.608147974 | GR-A |
| 7 | 56,250,000 | 56,400,000 | 751 | 557 | 0.355540044 | GR-A |
| 7 | 56,325,000 | 56,475,000 | 752 | 627 | 0.513165637 | GR-A |
| 7 | 56,400,000 | 56,550,000 | 753 | 627 | 0.747623221 | |
| 7 | 56,475,000 | 56,625,000 | 754 | 344 | 0.620134643 | |
| 7 | 56,550,000 | 56,700,000 | 755 | 272 | -0.016718572 | |
| 7 | 56,625,000 | 56,775,000 | 756 | 397 | -0.17124647 | |
| 7 | 56,700,000 | 56,850,000 | 757 | 362 | -0.393620322 | |
| 7 | 56,775,000 | 56,925,000 | 758 | 369 | 0.206224953 | |
| 7 | 56,850,000 | 57,000,000 | 759 | 440 | 0.882135863 | |
| 7 | 56,925,000 | 57,075,000 | 760 | 466 | 0.701060544 | |
| 7 | 57,000,000 | 57,150,000 | 761 | 519 | 0.593856395 | |
| 7 | 57,075,000 | 57,225,000 | 762 | 602 | 0.65577698 | YIPF5 |
| 7 | 57,150,000 | 57,300,000 | 763 | 703 | 0.843106426 | KCTD16,YIPF5,ENSBTAG00000010283 |
| 7 | 57,225,000 | 57,375,000 | 764 | 896 | 1.326675386 | KCTD16,ENSBTAG00000010283 |
| 7 | 57,300,000 | 57,450,000 | 765 | 908 | 1.316189513 | KCTD16 |
| 7 | 57,375,000 | 57,525,000 | 766 | 860 | 0.357010264 | KCTD16 |
| 7 | 57,450,000 | 57,600,000 | 767 | 615 | -0.051801344 | KCTD16 |
| 7 | 57,525,000 | 57,675,000 | 768 | 606 | 0.559079183 | KCTD16 |
| 7 | 57,600,000 | 57,750,000 | 769 | 702 | 0.283832539 | |
| 7 | 57,675,000 | 57,825,000 | 770 | 1040 | -0.213737072 | |
| 7 | 57,750,000 | 57,900,000 | 771 | 896 | -0.295560626 | |
| 7 | 57,825,000 | 57,975,000 | 772 | 600 | -1.218239097 | |
| 7 | 57,900,000 | 58,050,000 | 773 | 729 | -0.566429084 | |
| 7 | 57,975,000 | 58,125,000 | 774 | 592 | 0.521966431 | |
| 7 | 58,050,000 | 58,200,000 | 775 | 520 | 0.776273386 | |
| 7 | 58,125,000 | 58,275,000 | 776 | 726 | 0.980304535 | |
| 7 | 58,200,000 | 58,350,000 | 777 | 819 | 0.968042588 | |
| 7 | 58,275,000 | 58,425,000 | 778 | 533 | 0.15335726 | |
| 7 | 58,350,000 | 58,500,000 | 779 | 366 | -1.123103319 | |
| 7 | 58,425,000 | 58,575,000 | 780 | 522 | 0.342639508 | |
| 7 | 58,500,000 | 58,650,000 | 781 | 772 | 0.817420887 | |
| 7 | 58,575,000 | 58,725,000 | 782 | 867 | 1.070395885 | |
| 7 | 58,650,000 | 58,800,000 | 783 | 637 | 0.914322793 | |
| 7 | 58,725,000 | 58,875,000 | 784 | 517 | -0.335520012 | |
| 7 | 58,800,000 | 58,950,000 | 785 | 733 | -0.662179984 | PRELID2 |
| 7 | 58,875,000 | 59,025,000 | 786 | 567 | -1.480375995 | PRELID2 |
| 7 | 58,950,000 | 59,100,000 | 787 | 495 | -2.982542065 | GRXCR2,PRELID2 |
| 7 | 59,025,000 | 59,175,000 | 788 | 593 | -0.936022778 | GRXCR2,SH3RF2 |
| 7 | 59,100,000 | 59,250,000 | 789 | 597 | 0.980679442 | SH3RF2 |
| 7 | 59,175,000 | 59,325,000 | 790 | 714 | 1.120583573 | LARS,PLAC8L1,SH3RF2 |
| 7 | 59,250,000 | 59,400,000 | 791 | 655 | 0.651423139 | LARS,PLAC8L1,SH3RF2 |
| 7 | 59,325,000 | 59,475,000 | 792 | 402 | -0.922428008 | LARS,ENSBTAG00000011642 |
| 7 | 59,400,000 | 59,550,000 | 793 | 277 | -0.202019484 | POU4F3,ENSBTAG00000011642 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 59,475,000 | 59,625,000 | 794 | 409 | -0.589723996 | POU4F3 |
| 7 | 59,550,000 | 59,700,000 | 795 | 552 | -0.45130697 | GPR151,TCERG1 |
| 7 | 59,625,000 | 59,775,000 | 796 | 868 | -0.561706914 | GPR151,TCERG1 |
| 7 | 59,700,000 | 59,850,000 | 797 | 906 | -0.337170215 | PPP2R2B |
| 7 | 59,775,000 | 59,925,000 | 798 | 550 | -0.280297196 | PPP2R2B |
| 7 | 59,850,000 | 60,000,000 | 799 | 608 | -0.290507089 | PPP2R2B |
| 7 | 59,925,000 | 60,075,000 | 800 | 471 | -0.351594789 | PPP2R2B |
| 7 | 60,000,000 | 60,150,000 | 801 | 267 | -1.073784408 | PPP2R2B |
| 7 | 60,075,000 | 60,225,000 | 802 | 663 | 0.026390768 | PPP2R2B |
| 7 | 60,150,000 | 60,300,000 | 803 | 1026 | 0.404483587 | |
| 7 | 60,225,000 | 60,375,000 | 804 | 970 | 0.854471001 | |
| 7 | 60,300,000 | 60,450,000 | 805 | 1046 | -0.057536139 | |
| 7 | 60,375,000 | 60,525,000 | 806 | 897 | -0.840363563 | STK32A |
| 7 | 60,450,000 | 60,600,000 | 807 | 721 | -1.609879995 | DPYSL3,STK32A |
| 7 | 60,525,000 | 60,675,000 | 808 | 672 | 0.31693865 | DPYSL3,STK32A |
| 7 | 60,600,000 | 60,750,000 | 809 | 596 | 1.213157662 | DPYSL3 |
| 7 | 60,675,000 | 60,825,000 | 810 | 531 | 1.094659115 | DPYSL3,JAKMIP2 |
| 7 | 60,750,000 | 60,900,000 | 811 | 498 | 0.291252962 | JAKMIP2 |
| 7 | 60,825,000 | 60,975,000 | 812 | 826 | 0.176282697 | JAKMIP2 |
| 7 | 60,900,000 | 61,050,000 | 813 | 1014 | -0.086283259 | JAKMIP2,SPINK1,ENSBTAG00000047835 |
| 7 | 60,975,000 | 61,125,000 | 814 | 1131 | -0.583223342 | JAKMIP2,SCGB3A2,SPINK1,ENSBTAG00000047835 |
| 7 | 61,050,000 | 61,200,000 | 815 | 1120 | -0.043290094 | C7H5orf46,SCGB3A2 |
| 7 | 61,125,000 | 61,275,000 | 816 | 835 | -0.020036125 | C7H5orf46 |
| 7 | 61,200,000 | 61,350,000 | 817 | 663 | -0.101811761 | SPINK5 |
| 7 | 61,275,000 | 61,425,000 | 818 | 715 | 0.39029193 | SPINK5 |
| 7 | 61,350,000 | 61,500,000 | 819 | 801 | 0.497461854 | SPINK5,SPINK6 |
| 7 | 61,425,000 | 61,575,000 | 820 | 875 | 0.780432122 | SPINK6 |
| 7 | 61,500,000 | 61,650,000 | 821 | 1112 | 0.692856597 | ENSBTAG00000033759 |
| 7 | 61,575,000 | 61,725,000 | 822 | 1237 | 0.091413354 | SPINK7,ENSBTAG00000033759 |
| 7 | 61,650,000 | 61,800,000 | 823 | 922 | -0.881417047 | SPINK7,ENSBTAG00000033759 |
| 7 | 61,725,000 | 61,875,000 | 824 | 411 | -1.808435091 | FBXO38,SPINK7,ENSBTAG00000033759 |
| 7 | 61,800,000 | 61,950,000 | 825 | 284 | 3.80E-05 | FBXO38,HTR4,ENSBTAG00000047660 |
| 7 | 61,875,000 | 62,025,000 | 826 | 366 | 0.427202302 | HTR4,ENSBTAG00000047660 |
| 7 | 61,950,000 | 62,100,000 | 827 | 430 | 0.533549952 | HTR4 |
| 7 | 62,025,000 | 62,175,000 | 828 | 734 | 0.751789757 | HTR4 |
| 7 | 62,100,000 | 62,250,000 | 829 | 783 | 0.622540815 | ADRB2 |
| 7 | 62,175,000 | 62,325,000 | 830 | 489 | 0.619362035 | ADRB2 |
| 7 | 62,250,000 | 62,400,000 | 831 | 379 | 1.449822312 | SH3TC2 |
| 7 | 62,325,000 | 62,475,000 | 832 | 387 | 1.414316778 | SH3TC2 |
| 7 | 62,400,000 | 62,550,000 | 833 | 452 | 0.711269635 | ABLIM3,SH3TC2 |
| 7 | 62,475,000 | 62,625,000 | 834 | 456 | 0.69058455 | ABLIM3 |
| 7 | 62,550,000 | 62,700,000 | 835 | 417 | 1.004748479 | ABLIM3,AFAP1L1 |
| 7 | 62,625,000 | 62,775,000 | 836 | 329 | 0.447050005 | ABLIM3,AFAP1L1,GRPEL2,IL17B,PCYOX1L |
| 7 | 62,700,000 | 62,850,000 | 837 | 277 | 0.380294997 | AFAP1L1,GRPEL2,IL17B,PCYOX1L |
| 7 | 62,775,000 | 62,925,000 | 838 | 287 | 0.94663068 | ARHGEF37,CSNK1A1 |
| 7 | 62,850,000 | 63,000,000 | 839 | 654 | 1.062156939 | ARHGEF37,CSNK1A1 |
| 7 | 62,925,000 | 63,075,000 | 840 | 658 | 0.744221469 | ARHGEF37 |
| 7 | 63,000,000 | 63,150,000 | 841 | 649 | 0.25369358 | |
| 7 | 63,075,000 | 63,225,000 | 842 | 833 | 0.36774777 | PDE6A,PPARGC1B |
| 7 | 63,150,000 | 63,300,000 | 843 | 511 | -0.093423728 | PDE6A,PPARGC1B,SLC26A2 |
| 7 | 63,225,000 | 63,375,000 | 844 | 455 | 0.699935631 | HMGXB3,PDE6A,SLC26A2 |
| 7 | 63,300,000 | 63,450,000 | 845 | 453 | 1.1977082 | CSF1R,HMGXB3 |
| 7 | 63,375,000 | 63,525,000 | 846 | 456 | 0.897376233 | CDX1,CSF1R,HMGXB3,PDGFRB |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 63,450,000 | 63,600,000 | 847 | 412 | 0.467208626 | CAMK2A,CDX1,PDGFRB,SLC6A7 |
| 7 | 63,525,000 | 63,675,000 | 848 | 270 | 0.405895542 | ARSI,CAMK2A,PDGFRB,SLC6A7 |
| 7 | 63,600,000 | 63,750,000 | 849 | 288 | 0.720537029 | ARSI,CAMK2A,CD74,TCOF1 |
| 7 | 63,675,000 | 63,825,000 | 850 | 324 | 0.136157976 | CD74,NDST1,RPS14,TCOF1 |
| 7 | 63,750,000 | 63,900,000 | 851 | 342 | 0.053379824 | CD74,NDST1,RPS14 |
| 7 | 63,825,000 | 63,975,000 | 852 | 503 | -0.957353189 | NDST1 |
| 7 | 63,900,000 | 64,050,000 | 853 | 565 | -1.312514499 | MYOZ3,NDST1,SYNPO |
| 7 | 63,975,000 | 64,125,000 | 854 | 437 | -0.313659505 | DCTN4,MYOZ3,RBM22,SYNPO |
| 7 | 64,050,000 | 64,200,000 | 855 | 578 | -0.482226327 | DCTN4,MGC128424,RBM22 |
| 7 | 64,125,000 | 64,275,000 | 856 | 732 | -0.342810288 | MGC128424,ZNF300,ENSBTAG00000046873 |
| 7 | 64,200,000 | 64,350,000 | 857 | 641 | 0.620807907 | GPX3,TNIP1,ZNF300,ENSBTAG00000046873 |
| 7 | 64,275,000 | 64,425,000 | 858 | 721 | 0.79142769 | ANXA6,GPX3,TNIP1 |
| 7 | 64,350,000 | 64,500,000 | 859 | 702 | 0.895249546 | ANXA6,CCDC69,GM2A,ENSBTAG00000045615 |
| 7 | 64,425,000 | 64,575,000 | 860 | 819 | -0.808022306 | CCDC69,GM2A,SLC36A2,SLC36A3,ENSBTAG00000045615 |
| 7 | 64,500,000 | 64,650,000 | 861 | 927 | -1.523775298 | GM2A,SLC36A2,SLC36A3 |
| 7 | 64,575,000 | 64,725,000 | 862 | 835 | 0.02904561 | FAT2,SLC36A1,SLC36A2 |
| 7 | 64,650,000 | 64,800,000 | 863 | 689 | 0.905999654 | FAT2,SLC36A1,ENSBTAG00000047625 |
| 7 | 64,725,000 | 64,875,000 | 864 | 445 | 0.903486025 | FAT2,ENSBTAG00000047625 |
| 7 | 64,800,000 | 64,950,000 | 865 | 668 | -0.128757434 | ATOX1,SPARC |
| 7 | 64,875,000 | 65,025,000 | 866 | 868 | -0.414543217 | ATOX1,G3BP,SPARC |
| 7 | 64,950,000 | 65,100,000 | 867 | 643 | 0.188183533 | ATOX1,G3BP,GLRA1 |
| 7 | 65,025,000 | 65,175,000 | 868 | 496 | 0.506263024 | GLRA1 |
| 7 | 65,100,000 | 65,250,000 | 869 | 746 | 0.146693363 | GLRA1 |
| 7 | 65,175,000 | 65,325,000 | 870 | 1010 | -1.196397936 | |
| 7 | 65,250,000 | 65,400,000 | 871 | 975 | -1.979363411 | |
| 7 | 65,325,000 | 65,475,000 | 872 | 755 | -1.105356492 | |
| 7 | 65,400,000 | 65,550,000 | 873 | 577 | 0.172808022 | |
| 7 | 65,475,000 | 65,625,000 | 874 | 549 | 0.661686971 | |
| 7 | 65,550,000 | 65,700,000 | 875 | 658 | 0.157693019 | NMUR2 |
| 7 | 65,625,000 | 65,775,000 | 876 | 595 | 0.004263579 | NMUR2 |
| 7 | 65,700,000 | 65,850,000 | 877 | 377 | -0.407484719 | |
| 7 | 65,775,000 | 65,925,000 | 878 | 681 | -0.292260385 | |
| 7 | 65,850,000 | 66,000,000 | 879 | 1159 | 0.325343046 | |
| 7 | 65,925,000 | 66,075,000 | 880 | 1128 | 0.317822466 | |
| 7 | 66,000,000 | 66,150,000 | 881 | 866 | -0.150410788 | |
| 7 | 66,075,000 | 66,225,000 | 882 | 868 | 0.544679602 | |
| 7 | 66,150,000 | 66,300,000 | 883 | 1149 | 0.804782805 | |
| 7 | 66,225,000 | 66,375,000 | 884 | 901 | 0.824659829 | |
| 7 | 66,300,000 | 66,450,000 | 885 | 643 | 0.857477861 | |
| 7 | 66,375,000 | 66,525,000 | 886 | 853 | 1.019047163 | |
| 7 | 66,450,000 | 66,600,000 | 887 | 753 | 1.057420314 | |
| 7 | 66,525,000 | 66,675,000 | 888 | 660 | -0.154490551 | |
| 7 | 66,600,000 | 66,750,000 | 889 | 667 | -0.409969929 | |
| 7 | 66,675,000 | 66,825,000 | 890 | 636 | -0.232378387 | GRIA1 |
| 7 | 66,750,000 | 66,900,000 | 891 | 555 | -0.072015848 | GRIA1 |
| 7 | 66,825,000 | 66,975,000 | 892 | 850 | -0.214809744 | GRIA1 |
| 7 | 66,900,000 | 67,050,000 | 893 | 1261 | 0.082416545 | GRIA1 |
| 7 | 66,975,000 | 67,125,000 | 894 | 1344 | 0.587087754 | GRIA1 |
| 7 | 67,050,000 | 67,200,000 | 895 | 1142 | 0.434908593 | GRIA1 |
| 7 | 67,125,000 | 67,275,000 | 896 | 1082 | 0.333692247 | |
| 7 | 67,200,000 | 67,350,000 | 897 | 988 | 0.328252726 | FAM114A2,MFAP3 |
| 7 | 67,275,000 | 67,425,000 | 898 | 933 | -0.02190498 | FAM114A2,MFAP3,SMIM15 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 7 | 67,350,000 | 67,500,000 | 899 | 1003 | -0.287364198 | GALNT10,SMIM15 |
| 7 | 67,425,000 | 67,575,000 | 900 | 704 | -0.566222112 | GALNT10 |
| 7 | 67,500,000 | 67,650,000 | 901 | 507 | -0.596364287 | GALNT10 |
| 7 | 67,575,000 | 67,725,000 | 902 | 302 | -1.603218689 | GALNT10,HAND1 |
| 7 | 67,650,000 | 67,800,000 | 903 | 228 | -1.071721094 | GALNT10,HAND1,SAP30L |
| 7 | 67,725,000 | 67,875,000 | 904 | 416 | -0.577460294 | SAP30L |
| 7 | 67,800,000 | 67,950,000 | 905 | 546 | -0.044521901 | |
| 7 | 67,875,000 | 68,025,000 | 906 | 531 | 0.447955764 | LARP1 |
| 7 | 67,950,000 | 68,100,000 | 907 | 700 | 0.845643561 | CNOT8,GEMIN5,LARP1 |
| 7 | 68,025,000 | 68,175,000 | 908 | 1029 | 0.260717743 | CNOT8,GEMIN5,MRPL22 |
| 7 | 68,100,000 | 68,250,000 | 909 | 844 | 0.042705743 | GEMIN5,MRPL22 |
| 7 | 68,175,000 | 68,325,000 | 910 | 425 | 0.353572128 | |
| 7 | 68,250,000 | 68,400,000 | 911 | 415 | 0.0429886 | |
| 7 | 68,325,000 | 68,475,000 | 912 | 441 | 0.406878405 | |
| 7 | 68,400,000 | 68,550,000 | 913 | 399 | 0.671222275 | |
| 7 | 68,475,000 | 68,625,000 | 914 | 456 | 0.603587758 | |
| 7 | 68,550,000 | 68,700,000 | 915 | 673 | -2.097133257 | |
| 7 | 68,625,000 | 68,775,000 | 916 | 605 | -2.407841583 | |
| 7 | 68,700,000 | 68,850,000 | 917 | 425 | 0.290359702 | |
| 7 | 68,775,000 | 68,925,000 | 918 | 462 | 0.681636172 | |
| 7 | 68,850,000 | 69,000,000 | 919 | 732 | 0.937673823 | |
| 7 | 68,925,000 | 69,075,000 | 920 | 1072 | -0.037711588 | |
| 7 | 69,000,000 | 69,150,000 | 921 | 1112 | -0.513014504 | |
| 7 | 69,075,000 | 69,225,000 | 922 | 908 | 0.161928056 | |
| 7 | 69,150,000 | 69,300,000 | 923 | 1014 | 0.966017342 | |
| 7 | 69,225,000 | 69,375,000 | 924 | 1304 | 0.949515752 | |
| 7 | 69,300,000 | 69,450,000 | 925 | 1341 | 0.794443356 | |
| 7 | 69,375,000 | 69,525,000 | 926 | 1497 | 0.792194022 | |
| 7 | 69,450,000 | 69,600,000 | 927 | 1509 | 0.82237811 | SGCD |
| 7 | 69,525,000 | 69,675,000 | 928 | 1521 | 0.927009048 | SGCD |
| 7 | 69,600,000 | 69,750,000 | 929 | 1279 | 1.030383687 | SGCD |
| 7 | 69,675,000 | 69,825,000 | 930 | 1098 | 0.986821577 | SGCD |
| 7 | 69,750,000 | 69,900,000 | 931 | 1351 | 0.997726063 | SGCD |
| 7 | 69,825,000 | 69,975,000 | 932 | 1500 | 1.010915167 | SGCD |
| 7 | 69,900,000 | 70,050,000 | 933 | 1225 | 1.057428855 | SGCD |
| 7 | 69,975,000 | 70,125,000 | 934 | 1296 | 0.999002614 | SGCD |
| 7 | 70,050,000 | 70,200,000 | 935 | 1393 | 1.011546725 | |
| 7 | 70,125,000 | 70,275,000 | 936 | 1203 | 1.046906738 | MGC137099 |
| 7 | 70,200,000 | 70,350,000 | 937 | 1304 | 0.805975408 | MGC137099,TIMD4 |
| 7 | 70,275,000 | 70,425,000 | 938 | 1407 | 0.069259783 | TIMD4 |
| 7 | 70,350,000 | 70,500,000 | 939 | 1284 | -0.596752001 | |
| 7 | 70,425,000 | 70,575,000 | 940 | 1061 | -1.734568138 | |
| 7 | 70,500,000 | 70,650,000 | 941 | 1333 | -0.572458862 | |
| 7 | 70,575,000 | 70,725,000 | 942 | 1640 | 0.496262357 | ENSBTAG00000036102 |
| 7 | 70,650,000 | 70,800,000 | 943 | 1493 | 0.627919597 | ENSBTAG00000036102 |
| 7 | 70,725,000 | 70,875,000 | 944 | 1425 | 1.007200933 | HAVCR2,ENSBTAG00000036102 |
| 7 | 70,800,000 | 70,950,000 | 945 | 1390 | 0.974086747 | FAM71B,HAVCR2,ITK |
| 7 | 70,875,000 | 71,025,000 | 946 | 1401 | 0.244992847 | CYFIP2,FAM71B,ITK |
| 7 | 70,950,000 | 71,100,000 | 947 | 1486 | 0.251788402 | CYFIP2,FNDC9,ITK |
| 7 | 71,025,000 | 71,175,000 | 948 | 1073 | 0.534745163 | ADAM19,CYFIP2,FNDC9,NIPAL4 |
| 7 | 71,100,000 | 71,250,000 | 949 | 738 | -0.529418134 | ADAM19,CYFIP2,NIPAL4 |
| 7 | 71,175,000 | 71,325,000 | 950 | 551 | -1.805577698 | ADAM19,SOX30 |
| 7 | 71,250,000 | 71,400,000 | 951 | 315 | -0.690933326 | ADAM19,LSM11,SOX30,THG1L |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------|
| 7 | 71,325,000 | 71,475,000 | 952 | 259 | -2.855060626 | CLINT1,LSM11,SOX30,THG1L |
| 7 | 71,400,000 | 71,550,000 | 953 | 332 | -1.756788906 | CLINT1 |
| 7 | 71,475,000 | 71,625,000 | 954 | 333 | -0.398124288 | CLINT1 |
| 7 | 71,550,000 | 71,700,000 | 955 | 210 | 0.214247225 | |
| 7 | 71,625,000 | 71,775,000 | 956 | 187 | 0.49387343 | |
| 7 | 71,700,000 | 71,850,000 | 957 | 332 | 0.698715929 | |
| 7 | 71,775,000 | 71,925,000 | 958 | 336 | 0.406023194 | |
| 7 | 71,850,000 | 72,000,000 | 959 | 198 | 0.040889807 | |
| 7 | 71,925,000 | 72,075,000 | 960 | 272 | 0.502405241 | |
| 7 | 72,000,000 | 72,150,000 | 961 | 354 | 0.84060822 | |
| 7 | 72,075,000 | 72,225,000 | 962 | 363 | -0.539178681 | |
| 7 | 72,150,000 | 72,300,000 | 963 | 442 | -1.752181214 | |
| 7 | 72,225,000 | 72,375,000 | 964 | 368 | -1.465198303 | |
| 7 | 72,300,000 | 72,450,000 | 965 | 246 | -0.491360521 | EBF1 |
| 7 | 72,375,000 | 72,525,000 | 966 | 315 | 0.334437191 | EBF1 |
| 7 | 72,450,000 | 72,600,000 | 967 | 313 | 0.147344769 | EBF1 |
| 7 | 72,525,000 | 72,675,000 | 968 | 229 | 0.433290977 | EBF1 |
| 7 | 72,600,000 | 72,750,000 | 969 | 250 | -0.979244745 | EBF1 |
| 7 | 72,675,000 | 72,825,000 | 970 | 216 | -2.483787095 | EBF1 |
| 7 | 72,750,000 | 72,900,000 | 971 | 152 | -2.895143973 | EBF1,RNF145 |
| 7 | 72,825,000 | 72,975,000 | 972 | 129 | -4.741254296 | RNF145,UBLCP1 |
| 7 | 72,900,000 | 73,050,000 | 973 | 175 | -4.93471503 | IL12B,RNF145,UBLCP1 |
| 7 | 72,975,000 | 73,125,000 | 974 | 243 | -2.846337803 | IL12B,UBLCP1 |
| 7 | 73,050,000 | 73,200,000 | 975 | 510 | 0.118404786 | |
| 7 | 73,125,000 | 73,275,000 | 976 | 629 | -0.274271893 | |
| 7 | 73,200,000 | 73,350,000 | 977 | 416 | -0.848492328 | |
| 7 | 73,275,000 | 73,425,000 | 978 | 498 | -1.237990011 | |
| 7 | 73,350,000 | 73,500,000 | 979 | 468 | -3.088651889 | |
| 7 | 73,425,000 | 73,575,000 | 980 | 445 | -2.908157012 | |
| 7 | 73,500,000 | 73,650,000 | 981 | 554 | -1.145816591 | ADRA1B |
| 7 | 73,575,000 | 73,725,000 | 982 | 381 | -0.652020952 | ADRA1B,TTC1 |
| 7 | 73,650,000 | 73,800,000 | 983 | 199 | 0.367679359 | ADRA1B,PWWP2A,TTC1 |
| 7 | 73,725,000 | 73,875,000 | 984 | 227 | -0.465391136 | PWWP2A,TTC1 |
| 7 | 73,800,000 | 73,950,000 | 985 | 504 | 0.016590429 | CCNJL,FABP6 |
| 7 | 73,875,000 | 74,025,000 | 986 | 834 | 0.286945806 | CCNJL,FABP6 |
| 7 | 73,950,000 | 74,100,000 | 987 | 725 | 0.377318303 | C1QTNF2,CCNJL,SLU7,ZBED8 |
| 7 | 74,025,000 | 74,175,000 | 988 | 593 | 0.603497546 | C1QTNF2,PTTG1,SLU7,ZBED8 |
| 7 | 74,100,000 | 74,250,000 | 989 | 1119 | 1.00832427 | PTTG1,SLU7 |
| 7 | 74,175,000 | 74,325,000 | 990 | 1444 | 1.250134883 | |
| 7 | 74,250,000 | 74,400,000 | 991 | 1269 | 0.966062482 | ATP10B |
| 7 | 74,325,000 | 74,475,000 | 992 | 961 | 0.866935587 | ATP10B |
| 7 | 74,400,000 | 74,550,000 | 993 | 1027 | 1.114906547 | ATP10B |
| 7 | 74,475,000 | 74,625,000 | 994 | 1374 | 1.043913147 | |
| 7 | 74,550,000 | 74,700,000 | 995 | 1140 | 0.931710496 | |
| 7 | 74,625,000 | 74,775,000 | 996 | 930 | 0.880959265 | |
| 7 | 74,700,000 | 74,850,000 | 997 | 740 | 0.869572155 | |
| 7 | 74,775,000 | 74,925,000 | 998 | 542 | 0.835344604 | |
| 7 | 74,850,000 | 75,000,000 | 999 | 666 | 0.651152029 | |
| 7 | 74,925,000 | 75,075,000 | 1000 | 661 | 0.771599625 | ENSBTAG00000046349 |
| 7 | 75,000,000 | 75,150,000 | 1001 | 598 | 0.850385802 | GABRB2,ENSBTAG00000046349 |
| 7 | 75,075,000 | 75,225,000 | 1002 | 476 | 0.718771018 | GABRB2 |
| 7 | 75,150,000 | 75,300,000 | 1003 | 331 | 1.103433274 | GABRB2 |
| 7 | 75,225,000 | 75,375,000 | 1004 | 242 | 1.421901664 | GABRB2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------------|
| 7 | 75,300,000 | 75,450,000 | 1005 | 361 | 1.428585003 | GABRB2 |
| 7 | 75,375,000 | 75,525,000 | 1006 | 487 | 1.376872108 | GABRA6,GABRB2 |
| 7 | 75,450,000 | 75,600,000 | 1007 | 291 | 0.797982506 | GABRA6 |
| 7 | 75,525,000 | 75,675,000 | 1008 | 148 | 0.391392473 | GABRA6 |
| 7 | 75,600,000 | 75,750,000 | 1009 | 320 | 0.884840911 | GABRA1 |
| 7 | 75,675,000 | 75,825,000 | 1010 | 456 | 0.728482128 | GABRA1 |
| 7 | 75,750,000 | 75,900,000 | 1011 | 625 | 0.827926978 | GABRA1,GABRG2 |
| 7 | 75,825,000 | 75,975,000 | 1012 | 727 | 0.717533565 | GABRG2 |
| 7 | 75,900,000 | 76,050,000 | 1013 | 422 | 0.481774588 | GABRG2 |
| 7 | 75,975,000 | 76,125,000 | 1014 | 335 | 1.147973786 | GABRG2 |
| 7 | 76,050,000 | 76,200,000 | 1015 | 562 | -0.017182004 | |
| 7 | 76,125,000 | 76,275,000 | 1016 | 550 | -0.586501809 | |
| 7 | 76,200,000 | 76,350,000 | 1017 | 332 | -1.078785515 | |
| 7 | 76,275,000 | 76,425,000 | 1018 | 551 | -0.080427462 | |
| 7 | 76,350,000 | 76,500,000 | 1019 | 653 | 0.227603286 | |
| 7 | 76,425,000 | 76,575,000 | 1020 | 263 | -0.411239812 | |
| 7 | 76,500,000 | 76,650,000 | 1021 | 314 | -2.167551211 | |
| 7 | 76,575,000 | 76,725,000 | 1022 | 956 | -0.216485373 | |
| 7 | 76,650,000 | 76,800,000 | 1023 | 1185 | 0.152991413 | |
| 7 | 76,725,000 | 76,875,000 | 1024 | 798 | -1.115506001 | |
| 7 | 76,800,000 | 76,950,000 | 1025 | 742 | 0.191140008 | |
| 7 | 76,875,000 | 77,025,000 | 1026 | 754 | 0.001965468 | |
| 7 | 76,950,000 | 77,100,000 | 1027 | 524 | -2.844941714 | |
| 7 | 77,025,000 | 77,175,000 | 1028 | 399 | -3.932240702 | |
| 7 | 77,100,000 | 77,250,000 | 1029 | 294 | -3.795630318 | CCNG1 |
| 7 | 77,175,000 | 77,325,000 | 1030 | 318 | -0.666829443 | CCNG1,HMMR,MAT2B,NUDCD2 |
| 7 | 77,250,000 | 77,400,000 | 1031 | 337 | -0.044388077 | CCNG1,HMMR,MAT2B,NUDCD2 |
| 7 | 77,325,000 | 77,475,000 | 1032 | 309 | 0.066633959 | MAT2B |
| 7 | 77,400,000 | 77,550,000 | 1033 | 441 | 0.355715469 | |
| 7 | 77,475,000 | 77,625,000 | 1034 | 407 | 0.166328568 | |
| 7 | 77,550,000 | 77,700,000 | 1035 | 307 | 0.753742835 | |
| 7 | 77,625,000 | 77,775,000 | 1036 | 351 | -0.200245332 | |
| 7 | 77,700,000 | 77,850,000 | 1037 | 578 | -2.235460751 | |
| 7 | 77,775,000 | 77,925,000 | 1038 | 663 | -0.378530957 | |
| 7 | 77,850,000 | 78,000,000 | 1039 | 750 | 1.063152529 | |
| 7 | 77,925,000 | 78,075,000 | 1040 | 626 | 0.995640307 | |
| 7 | 78,000,000 | 78,150,000 | 1041 | 303 | 0.242965356 | |
| 7 | 78,075,000 | 78,225,000 | 1042 | 328 | -0.704724464 | |
| 7 | 78,150,000 | 78,300,000 | 1043 | 412 | -2.997447552 | |
| 7 | 78,225,000 | 78,375,000 | 1044 | 513 | -3.894818724 | |
| 7 | 78,300,000 | 78,450,000 | 1045 | 490 | -2.520104207 | |
| 7 | 78,375,000 | 78,525,000 | 1046 | 584 | -0.222019907 | |
| 7 | 78,450,000 | 78,600,000 | 1047 | 790 | -2.353416283 | |
| 7 | 78,525,000 | 78,675,000 | 1048 | 861 | -4.003287601 | |
| 7 | 78,600,000 | 78,750,000 | 1049 | 667 | -2.740425436 | |
| 7 | 78,675,000 | 78,825,000 | 1050 | 424 | -1.043349061 | |
| 7 | 78,750,000 | 78,900,000 | 1051 | 443 | -0.27482533 | |
| 7 | 78,825,000 | 78,975,000 | 1052 | 717 | -0.004895752 | |
| 7 | 78,900,000 | 79,050,000 | 1053 | 1041 | -0.048274368 | |
| 7 | 78,975,000 | 79,125,000 | 1054 | 817 | -0.331839594 | |
| 7 | 79,050,000 | 79,200,000 | 1055 | 273 | -0.489749622 | |
| 7 | 79,125,000 | 79,275,000 | 1056 | 47 | -5.033976823 | |
| 7 | 79,200,000 | 79,350,000 | 1057 | 244 | 0.73495939 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------------------|
| 7 | 79,275,000 | 79,425,000 | 1058 | 334 | 1.046520416 | |
| 7 | 79,350,000 | 79,500,000 | 1059 | 342 | 0.842976726 | |
| 7 | 79,425,000 | 79,575,000 | 1060 | 589 | 0.439607387 | |
| 7 | 79,500,000 | 79,650,000 | 1061 | 648 | -0.055179087 | |
| 7 | 79,575,000 | 79,725,000 | 1062 | 425 | -0.82722256 | |
| 7 | 79,650,000 | 79,800,000 | 1063 | 503 | -1.103553825 | |
| 7 | 79,725,000 | 79,875,000 | 1064 | 553 | 0.061196157 | |
| 7 | 79,800,000 | 79,950,000 | 1065 | 589 | 0.015881027 | |
| 7 | 79,875,000 | 80,025,000 | 1066 | 637 | -1.412799851 | |
| 7 | 79,950,000 | 80,100,000 | 1067 | 508 | -1.227709697 | |
| 7 | 80,025,000 | 80,175,000 | 1068 | 711 | 0.43069694 | |
| 7 | 80,100,000 | 80,250,000 | 1069 | 976 | -0.047776878 | ENSBTAG00000046080 |
| 7 | 80,175,000 | 80,325,000 | 1070 | 934 | -0.693759983 | ENSBTAG00000046080 |
| 7 | 80,250,000 | 80,400,000 | 1071 | 900 | -1.905803466 | |
| 7 | 80,325,000 | 80,475,000 | 1072 | 817 | -1.193573343 | |
| 7 | 80,400,000 | 80,550,000 | 1073 | 979 | -0.436474908 | |
| 7 | 80,475,000 | 80,625,000 | 1074 | 1059 | -0.471093162 | |
| 7 | 80,550,000 | 80,700,000 | 1075 | 693 | 0.391011143 | |
| 7 | 80,625,000 | 80,775,000 | 1076 | 483 | 0.848994024 | |
| 7 | 80,700,000 | 80,850,000 | 1077 | 375 | 1.116111064 | |
| 7 | 80,775,000 | 80,925,000 | 1078 | 679 | 1.189370145 | |
| 7 | 80,850,000 | 81,000,000 | 1079 | 897 | 1.252924039 | |
| 7 | 80,925,000 | 81,075,000 | 1080 | 799 | 1.387775604 | |
| 7 | 81,000,000 | 81,150,000 | 1081 | 521 | 1.3302457 | |
| 7 | 81,075,000 | 81,225,000 | 1082 | 357 | 0.861788181 | |
| 7 | 81,150,000 | 81,300,000 | 1083 | 509 | 0.538163546 | |
| 7 | 81,225,000 | 81,375,000 | 1084 | 558 | -0.460105467 | |
| 7 | 81,300,000 | 81,450,000 | 1085 | 502 | -0.208269582 | CMC2 |
| 7 | 81,375,000 | 81,525,000 | 1086 | 350 | 0.939995489 | CMC2 |
| 7 | 81,450,000 | 81,600,000 | 1087 | 389 | 0.129741549 | |
| 7 | 81,525,000 | 81,675,000 | 1088 | 536 | 0.332733722 | |
| 7 | 81,600,000 | 81,750,000 | 1089 | 701 | 0.054757429 | |
| 7 | 81,675,000 | 81,825,000 | 1090 | 704 | 0.015797115 | |
| 7 | 81,750,000 | 81,900,000 | 1091 | 499 | 0.550887396 | |
| 7 | 81,825,000 | 81,975,000 | 1092 | 462 | 0.600743971 | |
| 7 | 81,900,000 | 82,050,000 | 1093 | 636 | -0.092494474 | |
| 7 | 81,975,000 | 82,125,000 | 1094 | 860 | -0.573460353 | |
| 7 | 82,050,000 | 82,200,000 | 1095 | 907 | -0.611926265 | |
| 7 | 82,125,000 | 82,275,000 | 1096 | 593 | -0.433474993 | |
| 7 | 82,200,000 | 82,350,000 | 1097 | 239 | -0.441432104 | |
| 7 | 82,275,000 | 82,425,000 | 1098 | 313 | -1.13166017 | TENM2 |
| 7 | 82,350,000 | 82,500,000 | 1099 | 374 | -0.409438665 | TENM2 |
| 7 | 82,425,000 | 82,575,000 | 1100 | 348 | 0.687246432 | TENM2 |
| 7 | 82,500,000 | 82,650,000 | 1101 | 512 | 0.977442317 | TENM2 |
| 7 | 82,575,000 | 82,725,000 | 1102 | 504 | 0.755109419 | TENM2,WWC1 |
| 7 | 82,650,000 | 82,800,000 | 1103 | 610 | 0.008078961 | RARS,WWC1 |
| 7 | 82,725,000 | 82,875,000 | 1104 | 984 | -0.700001861 | FBLL1,RARS,WWC1 |
| 7 | 82,800,000 | 82,950,000 | 1105 | 900 | -1.013750506 | FAM151B,FBLL1,RARS,ZFYVE16 |
| 7 | 82,875,000 | 83,025,000 | 1106 | 705 | -0.900892755 | ANKRD34B,DHFR,FAM151B,ZFYVE16 |
| 7 | 82,950,000 | 83,100,000 | 1107 | 688 | -0.42926572 | ANKRD34B,DHFR,FAM151B,MSH3 |
| 7 | 83,025,000 | 83,175,000 | 1108 | 608 | 0.921284163 | DHFR,MSH3 |
| 7 | 83,100,000 | 83,250,000 | 1109 | 721 | 0.798523057 | MSH3 |
| 7 | 83,175,000 | 83,325,000 | 1110 | 575 | 0.495484571 | MSH3 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 7 | 83,250,000 | 83,400,000 | 1111 | 650 | 0.910629853 | RASGRF2 |
| 7 | 83,325,000 | 83,475,000 | 1112 | 1053 | 1.103326742 | RASGRF2 |
| 7 | 83,400,000 | 83,550,000 | 1113 | 833 | 0.94805697 | RASGRF2 |
| 7 | 83,475,000 | 83,625,000 | 1114 | 606 | 0.561101566 | ACOT12,CKMT2,RASGRF2,ZCCHC9 |
| 7 | 83,550,000 | 83,700,000 | 1115 | 823 | 0.281128336 | ACOT12,CKMT2,ZCCHC9 |
| 7 | 83,625,000 | 83,775,000 | 1116 | 683 | 0.193350885 | ACOT12,SSBP2 |
| 7 | 83,700,000 | 83,850,000 | 1117 | 498 | -0.115381981 | SSBP2 |
| 7 | 83,775,000 | 83,925,000 | 1118 | 684 | -0.341777953 | SSBP2 |
| 7 | 83,850,000 | 84,000,000 | 1119 | 602 | -1.058329269 | SSBP2 |
| 7 | 83,925,000 | 84,075,000 | 1120 | 443 | -1.246800999 | SSBP2 |
| 7 | 84,000,000 | 84,150,000 | 1121 | 368 | 0.472072141 | SSBP2 |
| 7 | 84,075,000 | 84,225,000 | 1122 | 516 | 0.504619779 | |
| 7 | 84,150,000 | 84,300,000 | 1123 | 620 | -0.138191925 | MGC138057 |
| 7 | 84,225,000 | 84,375,000 | 1124 | 425 | -0.340801669 | MGC138057 |
| 7 | 84,300,000 | 84,450,000 | 1125 | 356 | -0.165580274 | MGC138057 |
| 7 | 84,375,000 | 84,525,000 | 1126 | 590 | 0.049527669 | MGC138057,RPS23 |
| 7 | 84,450,000 | 84,600,000 | 1127 | 716 | -0.125567031 | MGC138057,RPS23 |
| 7 | 84,525,000 | 84,675,000 | 1128 | 534 | -0.664894292 | RPS23 |
| 7 | 84,600,000 | 84,750,000 | 1129 | 511 | -0.669918137 | |
| 7 | 84,675,000 | 84,825,000 | 1130 | 600 | -0.424219609 | |
| 7 | 84,750,000 | 84,900,000 | 1131 | 650 | 0.093661744 | |
| 7 | 84,825,000 | 84,975,000 | 1132 | 746 | 0.432663887 | |
| 7 | 84,900,000 | 85,050,000 | 1133 | 559 | 0.448024416 | |
| 7 | 84,975,000 | 85,125,000 | 1134 | 418 | 0.153485384 | |
| 7 | 85,050,000 | 85,200,000 | 1135 | 383 | 0.366218045 | |
| 7 | 85,125,000 | 85,275,000 | 1136 | 294 | 1.084173279 | TMEM167A,XRCC4 |
| 7 | 85,200,000 | 85,350,000 | 1137 | 293 | 1.05504085 | TMEM167A,XRCC4 |
| 7 | 85,275,000 | 85,425,000 | 1138 | 256 | 0.659896807 | XRCC4 |
| 7 | 85,350,000 | 85,500,000 | 1139 | 383 | -0.009413166 | XRCC4 |
| 7 | 85,425,000 | 85,575,000 | 1140 | 567 | 0.744968546 | XRCC4 |
| 7 | 85,500,000 | 85,650,000 | 1141 | 785 | 0.101104119 | XRCC4 |
| 7 | 85,575,000 | 85,725,000 | 1142 | 793 | -1.033854027 | VCAN |
| 7 | 85,650,000 | 85,800,000 | 1143 | 487 | -0.62279125 | VCAN |
| 7 | 85,725,000 | 85,875,000 | 1144 | 464 | 0.717293127 | HAPLN1,VCAN |
| 7 | 85,800,000 | 85,950,000 | 1145 | 664 | -0.088291764 | HAPLN1 |
| 7 | 85,875,000 | 86,025,000 | 1146 | 752 | -0.520439837 | HAPLN1 |
| 7 | 85,950,000 | 86,100,000 | 1147 | 702 | 0.149568372 | |
| 7 | 86,025,000 | 86,175,000 | 1148 | 499 | 0.188662835 | EDIL3 |
| 7 | 86,100,000 | 86,250,000 | 1149 | 347 | 0.73461019 | EDIL3 |
| 7 | 86,175,000 | 86,325,000 | 1150 | 290 | 1.125481391 | EDIL3 |
| 7 | 86,250,000 | 86,400,000 | 1151 | 421 | 0.573468118 | EDIL3 |
| 7 | 86,325,000 | 86,475,000 | 1152 | 716 | 0.897082321 | EDIL3 |
| 7 | 86,400,000 | 86,550,000 | 1153 | 750 | 1.00258309 | EDIL3 |
| 7 | 86,475,000 | 86,625,000 | 1154 | 863 | 0.488059224 | EDIL3 |
| 7 | 86,550,000 | 86,700,000 | 1155 | 899 | 0.170170733 | EDIL3 |
| 7 | 86,625,000 | 86,775,000 | 1156 | 943 | -0.826027701 | EDIL3 |
| 7 | 86,700,000 | 86,850,000 | 1157 | 917 | -0.902101944 | |
| 7 | 86,775,000 | 86,925,000 | 1158 | 865 | -3.600230829 | |
| 7 | 86,850,000 | 87,000,000 | 1159 | 993 | -3.820657463 | |
| 7 | 86,925,000 | 87,075,000 | 1160 | 669 | -2.180307018 | |
| 7 | 87,000,000 | 87,150,000 | 1161 | 500 | -1.322839783 | |
| 7 | 87,075,000 | 87,225,000 | 1162 | 780 | 0.402583198 | |
| 7 | 87,150,000 | 87,300,000 | 1163 | 568 | 0.356508992 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------------|
| 7 | 87,225,000 | 87,375,000 | 1164 | 218 | -0.854862201 | |
| 7 | 87,300,000 | 87,450,000 | 1165 | 409 | -0.081338859 | |
| 7 | 87,375,000 | 87,525,000 | 1166 | 626 | 1.084362874 | |
| 7 | 87,450,000 | 87,600,000 | 1167 | 601 | 0.912955394 | |
| 7 | 87,525,000 | 87,675,000 | 1168 | 934 | 0.177479949 | |
| 7 | 87,600,000 | 87,750,000 | 1169 | 1149 | 0.098376297 | |
| 7 | 87,675,000 | 87,825,000 | 1170 | 599 | 0.190560377 | |
| 7 | 87,750,000 | 87,900,000 | 1171 | 357 | 0.584592893 | |
| 7 | 87,825,000 | 87,975,000 | 1172 | 724 | -0.112819159 | |
| 7 | 87,900,000 | 88,050,000 | 1173 | 1016 | 0.047675462 | |
| 7 | 87,975,000 | 88,125,000 | 1174 | 847 | 0.297450987 | |
| 7 | 88,050,000 | 88,200,000 | 1175 | 691 | -1.18910805 | |
| 7 | 88,125,000 | 88,275,000 | 1176 | 898 | -0.917507939 | |
| 7 | 88,200,000 | 88,350,000 | 1177 | 1201 | -1.982430498 | |
| 7 | 88,275,000 | 88,425,000 | 1178 | 1137 | -2.415084898 | |
| 7 | 88,350,000 | 88,500,000 | 1179 | 1031 | -1.243448828 | |
| 7 | 88,425,000 | 88,575,000 | 1180 | 963 | -1.592791355 | |
| 7 | 88,500,000 | 88,650,000 | 1181 | 800 | -0.30639967 | COX7C |
| 7 | 88,575,000 | 88,725,000 | 1182 | 922 | 0.363032133 | COX7C |
| 7 | 88,650,000 | 88,800,000 | 1183 | 970 | 0.667773223 | COX7C |
| 7 | 88,725,000 | 88,875,000 | 1184 | 644 | 0.306444844 | |
| 7 | 88,800,000 | 88,950,000 | 1185 | 569 | -1.822926982 | |
| 7 | 88,875,000 | 89,025,000 | 1186 | 825 | -2.087201255 | |
| 7 | 88,950,000 | 89,100,000 | 1187 | 776 | -1.505354656 | |
| 7 | 89,025,000 | 89,175,000 | 1188 | 826 | -2.220499364 | |
| 7 | 89,100,000 | 89,250,000 | 1189 | 922 | -1.718826914 | |
| 7 | 89,175,000 | 89,325,000 | 1190 | 686 | -0.501869952 | RASA1 |
| 7 | 89,250,000 | 89,400,000 | 1191 | 462 | -0.809111724 | RASA1,ENSBTAG00000009566 |
| 7 | 89,325,000 | 89,475,000 | 1192 | 680 | -0.818495718 | RASA1,ENSBTAG00000009566 |
| 7 | 89,400,000 | 89,550,000 | 1193 | 794 | -0.227607809 | ENSBTAG00000009566 |
| 7 | 89,475,000 | 89,625,000 | 1194 | 507 | 0.320218229 | |
| 7 | 89,550,000 | 89,700,000 | 1195 | 695 | -1.452435473 | |
| 7 | 89,625,000 | 89,775,000 | 1196 | 983 | -1.571144329 | |
| 7 | 89,700,000 | 89,850,000 | 1197 | 806 | -0.919878146 | |
| 7 | 89,775,000 | 89,925,000 | 1198 | 639 | 0.313959778 | |
| 7 | 89,850,000 | 90,000,000 | 1199 | 707 | 0.783562353 | |
| 7 | 89,925,000 | 90,075,000 | 1200 | 698 | -1.368393346 | |
| 7 | 90,000,000 | 90,150,000 | 1201 | 447 | -3.251658519 | TMEM161B |
| 7 | 90,075,000 | 90,225,000 | 1202 | 454 | -1.138334793 | TMEM161B |
| 7 | 90,150,000 | 90,300,000 | 1203 | 744 | -0.613993799 | TMEM161B |
| 7 | 90,225,000 | 90,375,000 | 1204 | 625 | -0.250749358 | |
| 7 | 90,300,000 | 90,450,000 | 1205 | 372 | 0.279840984 | |
| 7 | 90,375,000 | 90,525,000 | 1206 | 320 | 0.836893975 | |
| 7 | 90,450,000 | 90,600,000 | 1207 | 292 | 0.779314619 | |
| 7 | 90,525,000 | 90,675,000 | 1208 | 337 | 0.734929396 | MEF2C |
| 7 | 90,600,000 | 90,750,000 | 1209 | 466 | 0.472514863 | MEF2C |
| 7 | 90,675,000 | 90,825,000 | 1210 | 509 | -0.761684961 | MEF2C |
| 7 | 90,750,000 | 90,900,000 | 1211 | 553 | 0.205252349 | MEF2C |
| 7 | 90,825,000 | 90,975,000 | 1212 | 607 | 0.366787678 | |
| 7 | 90,900,000 | 91,050,000 | 1213 | 543 | 0.113774332 | |
| 7 | 90,975,000 | 91,125,000 | 1214 | 451 | 1.019382827 | |
| 7 | 91,050,000 | 91,200,000 | 1215 | 436 | 0.308776027 | |
| 7 | 91,125,000 | 91,275,000 | 1216 | 607 | 0.758465014 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 7 | 91,200,000 | 91,350,000 | 1217 | 609 | 1.019148847 | |
| 7 | 91,275,000 | 91,425,000 | 1218 | 507 | 0.694071244 | |
| 7 | 91,350,000 | 91,500,000 | 1219 | 505 | 0.400271106 | |
| 7 | 91,425,000 | 91,575,000 | 1220 | 502 | 0.143741459 | |
| 7 | 91,500,000 | 91,650,000 | 1221 | 599 | -0.017031491 | |
| 7 | 91,575,000 | 91,725,000 | 1222 | 661 | 0.431675493 | |
| 7 | 91,650,000 | 91,800,000 | 1223 | 615 | 0.972397118 | |
| 7 | 91,725,000 | 91,875,000 | 1224 | 712 | 0.803350335 | |
| 7 | 91,800,000 | 91,950,000 | 1225 | 691 | 0.797559204 | |
| 7 | 91,875,000 | 92,025,000 | 1226 | 588 | 1.026172327 | |
| 7 | 91,950,000 | 92,100,000 | 1227 | 786 | 1.206194841 | |
| 7 | 92,025,000 | 92,175,000 | 1228 | 740 | 1.23174976 | |
| 7 | 92,100,000 | 92,250,000 | 1229 | 480 | 1.198209488 | |
| 7 | 92,175,000 | 92,325,000 | 1230 | 353 | 0.463988773 | CETN3,ENSBTAG00000045800 |
| 7 | 92,250,000 | 92,400,000 | 1231 | 297 | -0.213041239 | CETN3,MBLAC2,ENSBTAG00000045800 |
| 7 | 92,325,000 | 92,475,000 | 1232 | 332 | 0.069550271 | LYSMD3,MBLAC2,POLR3G |
| 7 | 92,400,000 | 92,550,000 | 1233 | 408 | 0.073553031 | GPR98,LYSMD3,POLR3G |
| 7 | 92,475,000 | 92,625,000 | 1234 | 614 | 0.764015614 | GPR98 |
| 7 | 92,550,000 | 92,700,000 | 1235 | 1104 | 0.62400724 | GPR98 |
| 7 | 92,625,000 | 92,775,000 | 1236 | 1033 | 0.056297496 | GPR98 |
| 7 | 92,700,000 | 92,850,000 | 1237 | 898 | 0.290022166 | |
| 7 | 92,775,000 | 92,925,000 | 1238 | 890 | 1.056357022 | ENSBTAG00000046227 |
| 7 | 92,850,000 | 93,000,000 | 1239 | 394 | 1.310410782 | ENSBTAG00000046227 |
| 7 | 92,925,000 | 93,075,000 | 1240 | 261 | 1.020472529 | |
| 7 | 93,000,000 | 93,150,000 | 1241 | 419 | 0.837674265 | |
| 7 | 93,075,000 | 93,225,000 | 1242 | 519 | 0.250107988 | |
| 7 | 93,150,000 | 93,300,000 | 1243 | 563 | 0.134978684 | ARRDC3 |
| 7 | 93,225,000 | 93,375,000 | 1244 | 553 | 0.264003738 | ARRDC3 |
| 7 | 93,300,000 | 93,450,000 | 1245 | 589 | 0.497528765 | |
| 7 | 93,375,000 | 93,525,000 | 1246 | 504 | -0.319695683 | |
| 7 | 93,450,000 | 93,600,000 | 1247 | 792 | -1.653258154 | |
| 7 | 93,525,000 | 93,675,000 | 1248 | 817 | -0.972118907 | |
| 7 | 93,600,000 | 93,750,000 | 1249 | 324 | -0.486383392 | |
| 7 | 93,675,000 | 93,825,000 | 1250 | 236 | -1.489963583 | |
| 7 | 93,750,000 | 93,900,000 | 1251 | 247 | -1.172120462 | |
| 7 | 93,825,000 | 93,975,000 | 1252 | 397 | 0.425494188 | |
| 7 | 93,900,000 | 94,050,000 | 1253 | 742 | -0.347438091 | |
| 7 | 93,975,000 | 94,125,000 | 1254 | 924 | -0.705200067 | |
| 7 | 94,050,000 | 94,200,000 | 1255 | 1178 | 0.222949959 | |
| 7 | 94,125,000 | 94,275,000 | 1256 | 1443 | 0.016818397 | |
| 7 | 94,200,000 | 94,350,000 | 1257 | 1616 | -0.048422036 | |
| 7 | 94,275,000 | 94,425,000 | 1258 | 1488 | 0.198708505 | |
| 7 | 94,350,000 | 94,500,000 | 1259 | 952 | 0.042965909 | |
| 7 | 94,425,000 | 94,575,000 | 1260 | 761 | -0.361458892 | |
| 7 | 94,500,000 | 94,650,000 | 1261 | 667 | -0.362941804 | |
| 7 | 94,575,000 | 94,725,000 | 1262 | 732 | 0.212731439 | |
| 7 | 94,650,000 | 94,800,000 | 1263 | 819 | 0.47492605 | |
| 7 | 94,725,000 | 94,875,000 | 1264 | 947 | 0.633766743 | |
| 7 | 94,800,000 | 94,950,000 | 1265 | 819 | 0.675810206 | |
| 7 | 94,875,000 | 95,025,000 | 1266 | 600 | 0.712979371 | |
| 7 | 94,950,000 | 95,100,000 | 1267 | 537 | 0.768327165 | |
| 7 | 95,025,000 | 95,175,000 | 1268 | 458 | 0.418556105 | |
| 7 | 95,100,000 | 95,250,000 | 1269 | 512 | 0.669970623 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------|
| 7 | 95,175,000 | 95,325,000 | 1270 | 499 | 0.194211109 | |
| 7 | 95,250,000 | 95,400,000 | 1271 | 490 | -0.493760498 | |
| 7 | 95,325,000 | 95,475,000 | 1272 | 312 | 0.81555951 | NR2F1 |
| 7 | 95,400,000 | 95,550,000 | 1273 | 229 | -0.082848937 | NR2F1 |
| 7 | 95,475,000 | 95,625,000 | 1274 | 306 | -1.327375031 | |
| 7 | 95,550,000 | 95,700,000 | 1275 | 349 | -2.370881419 | |
| 7 | 95,625,000 | 95,775,000 | 1276 | 382 | -2.365594132 | |
| 7 | 95,700,000 | 95,850,000 | 1277 | 655 | -0.345098659 | |
| 7 | 95,775,000 | 95,925,000 | 1278 | 591 | 0.108055604 | |
| 7 | 95,850,000 | 96,000,000 | 1279 | 714 | 1.082694524 | |
| 7 | 95,925,000 | 96,075,000 | 1280 | 969 | 1.251938375 | |
| 7 | 96,000,000 | 96,150,000 | 1281 | 644 | 0.083648586 | KIAA0825 |
| 7 | 96,075,000 | 96,225,000 | 1282 | 703 | -0.267380825 | KIAA0825 |
| 7 | 96,150,000 | 96,300,000 | 1283 | 747 | 0.199704059 | KIAA0825 |
| 7 | 96,225,000 | 96,375,000 | 1284 | 709 | 0.153673731 | ANKRD32,KIAA0825 |
| 7 | 96,300,000 | 96,450,000 | 1285 | 577 | 0.48874682 | ANKRD32,KIAA0825 |
| 7 | 96,375,000 | 96,525,000 | 1286 | 413 | 0.836066537 | ANKRD32 |
| 7 | 96,450,000 | 96,600,000 | 1287 | 377 | 0.547710955 | |
| 7 | 96,525,000 | 96,675,000 | 1288 | 279 | -0.203605481 | |
| 7 | 96,600,000 | 96,750,000 | 1289 | 516 | 0.097013186 | MCTP1 |
| 7 | 96,675,000 | 96,825,000 | 1290 | 1028 | 0.460037844 | MCTP1 |
| 7 | 96,750,000 | 96,900,000 | 1291 | 1407 | 0.645461619 | |
| 7 | 96,825,000 | 96,975,000 | 1292 | 1233 | 0.517506201 | |
| 7 | 96,900,000 | 97,050,000 | 1293 | 1328 | 0.455412667 | |
| 7 | 96,975,000 | 97,125,000 | 1294 | 1116 | 0.551164176 | FAM81B |
| 7 | 97,050,000 | 97,200,000 | 1295 | 512 | 0.27157692 | FAM81B,TTC37 |
| 7 | 97,125,000 | 97,275,000 | 1296 | 478 | 0.666473189 | FAM81B,TTC37 |
| 7 | 97,200,000 | 97,350,000 | 1297 | 409 | 0.413307384 | ARSK,RHOBTB3,TTC37 |
| 7 | 97,275,000 | 97,425,000 | 1298 | 421 | 0.07762944 | ARSK,RHOBTB3 |
| 7 | 97,350,000 | 97,500,000 | 1299 | 547 | -1.367347585 | RFESD,RHOBTB3,SPATA9 |
| 7 | 97,425,000 | 97,575,000 | 1300 | 453 | -1.747970623 | GLRX,RFESD,RHOBTB3,SPATA9 |
| 7 | 97,500,000 | 97,650,000 | 1301 | 348 | 0.160548704 | ELL2,GLRX,SPATA9 |
| 7 | 97,575,000 | 97,725,000 | 1302 | 387 | 0.469336522 | ELL2 |
| 7 | 97,650,000 | 97,800,000 | 1303 | 510 | 0.888763743 | ELL2 |
| 7 | 97,725,000 | 97,875,000 | 1304 | 511 | 0.726501556 | |
| 7 | 97,800,000 | 97,950,000 | 1305 | 349 | 0.374546454 | |
| 7 | 97,875,000 | 98,025,000 | 1306 | 344 | 0.933700626 | |
| 7 | 97,950,000 | 98,100,000 | 1307 | 518 | 1.061116711 | |
| 7 | 98,025,000 | 98,175,000 | 1308 | 1095 | 0.620445803 | PCSK1 |
| 7 | 98,100,000 | 98,250,000 | 1309 | 1013 | 0.310016729 | PCSK1 |
| 7 | 98,175,000 | 98,325,000 | 1310 | 531 | -0.703331928 | PCSK1 |
| 7 | 98,250,000 | 98,400,000 | 1311 | 586 | -0.640654578 | |
| 7 | 98,325,000 | 98,475,000 | 1312 | 803 | 0.269679203 | CAST |
| 7 | 98,400,000 | 98,550,000 | 1313 | 1253 | 0.666779053 | CAST |
| 7 | 98,475,000 | 98,625,000 | 1314 | 1544 | 0.140514418 | CAST,ERAP1 |
| 7 | 98,550,000 | 98,700,000 | 1315 | 1517 | 0.214712381 | CAST,ERAP1 |
| 7 | 98,625,000 | 98,775,000 | 1316 | 1438 | 0.071422975 | ERAP2 |
| 7 | 98,700,000 | 98,850,000 | 1317 | 1162 | -0.23357774 | ERAP2,LNPEP |
| 7 | 98,775,000 | 98,925,000 | 1318 | 816 | 0.802846761 | LNPEP |
| 7 | 98,850,000 | 99,000,000 | 1319 | 714 | 0.593756156 | LIX1,LNPEP |
| 7 | 98,925,000 | 99,075,000 | 1320 | 643 | 0.300699665 | LIX1,RIOK2 |
| 7 | 99,000,000 | 99,150,000 | 1321 | 588 | 0.211926554 | LIX1,RIOK2 |
| 7 | 99,075,000 | 99,225,000 | 1322 | 903 | -0.063801255 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-----------|
| 7 | 99,150,000 | 99,300,000 | 1323 | 946 | -0.035323677 | |
| 7 | 99,225,000 | 99,375,000 | 1324 | 760 | 0.907008566 | |
| 7 | 99,300,000 | 99,450,000 | 1325 | 785 | 1.233589449 | |
| 7 | 99,375,000 | 99,525,000 | 1326 | 818 | 1.029861145 | |
| 7 | 99,450,000 | 99,600,000 | 1327 | 855 | 0.322134061 | |
| 7 | 99,525,000 | 99,675,000 | 1328 | 829 | 0.310899794 | |
| 7 | 99,600,000 | 99,750,000 | 1329 | 909 | 0.798949772 | |
| 7 | 99,675,000 | 99,825,000 | 1330 | 917 | 1.115250192 | |
| 7 | 99,750,000 | 99,900,000 | 1331 | 612 | 0.973174342 | |
| 7 | 99,825,000 | 99,975,000 | 1332 | 516 | -0.578004159 | |
| 7 | 99,900,000 | 100,050,000 | 1333 | 483 | -0.495458251 | |
| 7 | 99,975,000 | 100,125,000 | 1334 | 617 | 1.106373185 | |
| 7 | 100,050,000 | 100,200,000 | 1335 | 601 | 1.136940217 | |
| 7 | 100,125,000 | 100,275,000 | 1336 | 335 | 0.896539581 | |
| 7 | 100,200,000 | 100,350,000 | 1337 | 540 | 0.881755496 | |
| 7 | 100,275,000 | 100,425,000 | 1338 | 647 | 0.592879423 | |
| 7 | 100,350,000 | 100,500,000 | 1339 | 470 | 0.558134875 | CHD1,RGMB |
| 7 | 100,425,000 | 100,575,000 | 1340 | 322 | -0.457034047 | CHD1,RGMB |
| 7 | 100,500,000 | 100,650,000 | 1341 | 391 | -0.86914689 | CHD1 |
| 7 | 100,575,000 | 100,725,000 | 1342 | 736 | -3.073577807 | |
| 7 | 100,650,000 | 100,800,000 | 1343 | 1233 | -3.026508096 | |
| 7 | 100,725,000 | 100,875,000 | 1344 | 1161 | -1.486871794 | |
| 7 | 100,800,000 | 100,950,000 | 1345 | 751 | 0.145042266 | |
| 7 | 100,875,000 | 101,025,000 | 1346 | 731 | 0.426778106 | |
| 7 | 100,950,000 | 101,100,000 | 1347 | 1158 | 0.752101253 | |
| 7 | 101,025,000 | 101,175,000 | 1348 | 1259 | 0.226769197 | |
| 7 | 101,100,000 | 101,250,000 | 1349 | 1340 | -0.444682127 | |
| 7 | 101,175,000 | 101,325,000 | 1350 | 1520 | 0.017764803 | |
| 7 | 101,250,000 | 101,400,000 | 1351 | 1498 | -0.105221522 | |
| 7 | 101,325,000 | 101,475,000 | 1352 | 1537 | 0.046783686 | |
| 7 | 101,400,000 | 101,550,000 | 1353 | 1757 | 0.211762683 | |
| 7 | 101,475,000 | 101,625,000 | 1354 | 1538 | 0.242102349 | |
| 7 | 101,550,000 | 101,700,000 | 1355 | 1145 | 0.876758117 | |
| 7 | 101,625,000 | 101,775,000 | 1356 | 1048 | 0.911091051 | |
| 7 | 101,700,000 | 101,850,000 | 1357 | 1180 | 0.976246741 | |
| 7 | 101,775,000 | 101,925,000 | 1358 | 1530 | 1.05738477 | |
| 7 | 101,850,000 | 102,000,000 | 1359 | 1458 | 0.73865364 | |
| 7 | 101,925,000 | 102,075,000 | 1360 | 1465 | 0.895294977 | |
| 7 | 102,000,000 | 102,150,000 | 1361 | 978 | 1.041309894 | |
| 7 | 102,075,000 | 102,225,000 | 1362 | 608 | 0.831757034 | |
| 7 | 102,150,000 | 102,300,000 | 1363 | 1216 | 1.006666345 | FAM174A |
| 7 | 102,225,000 | 102,375,000 | 1364 | 1560 | 0.629064924 | FAM174A |
| 7 | 102,300,000 | 102,450,000 | 1365 | 1258 | -0.163847281 | |
| 7 | 102,375,000 | 102,525,000 | 1366 | 1124 | 0.368648914 | ST8SIA4 |
| 7 | 102,450,000 | 102,600,000 | 1367 | 1480 | 1.008875923 | ST8SIA4 |
| 7 | 102,525,000 | 102,675,000 | 1368 | 1583 | 1.082996554 | ST8SIA4 |
| 7 | 102,600,000 | 102,750,000 | 1369 | 1472 | 1.179190794 | |
| 7 | 102,675,000 | 102,825,000 | 1370 | 1415 | 1.215382676 | |
| 7 | 102,750,000 | 102,900,000 | 1371 | 1447 | 1.05176261 | |
| 7 | 102,825,000 | 102,975,000 | 1372 | 1430 | 0.948117032 | |
| 7 | 102,900,000 | 103,050,000 | 1373 | 1493 | 0.73226899 | |
| 7 | 102,975,000 | 103,125,000 | 1374 | 1614 | 0.171676139 | |
| 7 | 103,050,000 | 103,200,000 | 1375 | 1641 | -0.734751397 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 7 | 103,125,000 | 103,275,000 | 1376 | 1900 | -0.770284751 | |
| 7 | 103,200,000 | 103,350,000 | 1377 | 1991 | 0.314725964 | |
| 7 | 103,275,000 | 103,425,000 | 1378 | 1737 | 0.763468791 | |
| 7 | 103,350,000 | 103,500,000 | 1379 | 1552 | -0.455460734 | |
| 7 | 103,425,000 | 103,575,000 | 1380 | 1040 | -1.333433034 | |
| 7 | 103,500,000 | 103,650,000 | 1381 | 713 | 0.214240864 | |
| 7 | 103,575,000 | 103,725,000 | 1382 | 743 | -1.182922562 | SLCO4C1 |
| 7 | 103,650,000 | 103,800,000 | 1383 | 709 | -1.23345458 | SLCO4C1 |
| 7 | 103,725,000 | 103,875,000 | 1384 | 953 | 0.257028513 | SLCO4C1,SLCO6A1 |
| 7 | 103,800,000 | 103,950,000 | 1385 | 918 | 0.519656905 | SLCO6A1 |
| 7 | 103,875,000 | 104,025,000 | 1386 | 828 | 0.765755115 | SLCO6A1 |
| 7 | 103,950,000 | 104,100,000 | 1387 | 1099 | 0.346874986 | |
| 7 | 104,025,000 | 104,175,000 | 1388 | 1321 | 0.196073081 | |
| 7 | 104,100,000 | 104,250,000 | 1389 | 1005 | 0.222662658 | |
| 7 | 104,175,000 | 104,325,000 | 1390 | 638 | 0.169876057 | PAM |
| 7 | 104,250,000 | 104,400,000 | 1391 | 664 | 0.372583682 | PAM |
| 7 | 104,325,000 | 104,475,000 | 1392 | 552 | 0.067307359 | PAM |
| 7 | 104,400,000 | 104,550,000 | 1393 | 487 | -0.526052951 | GIN1,PAM |
| 7 | 104,475,000 | 104,625,000 | 1394 | 426 | -0.092079624 | GIN1,PAM,PPIP5K2 |
| 7 | 104,550,000 | 104,700,000 | 1395 | 272 | 0.814396775 | C7H5orf30,GIN1,PPIP5K2 |
| 7 | 104,625,000 | 104,775,000 | 1396 | 394 | 0.703421264 | C7H5orf30,PPIP5K2 |
| 7 | 104,700,000 | 104,850,000 | 1397 | 902 | -0.225009141 | C7H5orf30 |
| 7 | 104,775,000 | 104,925,000 | 1398 | 995 | -0.606423962 | ENSBTAG00000027727 |
| 7 | 104,850,000 | 105,000,000 | 1399 | 615 | -1.152334875 | ENSBTAG00000027727 |
| 7 | 104,925,000 | 105,075,000 | 1400 | 592 | -0.740540491 | NUDT12,ENSBTAG00000027727 |
| 7 | 105,000,000 | 105,150,000 | 1401 | 1082 | 0.599493858 | NUDT12,ENSBTAG00000027727 |
| 7 | 105,075,000 | 105,225,000 | 1402 | 1174 | 0.745467294 | |
| 7 | 105,150,000 | 105,300,000 | 1403 | 946 | 0.142768857 | |
| 7 | 105,225,000 | 105,375,000 | 1404 | 864 | -1.156009429 | ENSBTAG00000030204 |
| 7 | 105,300,000 | 105,450,000 | 1405 | 786 | -0.640000075 | ENSBTAG00000030204,ENSBTAG00000046867 |
| 7 | 105,375,000 | 105,525,000 | 1406 | 980 | 0.107547726 | ENSBTAG00000046867 |
| 7 | 105,450,000 | 105,600,000 | 1407 | 1364 | 0.018263054 | |
| 7 | 105,525,000 | 105,675,000 | 1408 | 1357 | 0.022526692 | |
| 7 | 105,600,000 | 105,750,000 | 1409 | 1200 | 0.280934769 | |
| 7 | 105,675,000 | 105,825,000 | 1410 | 1138 | 0.279692385 | |
| 7 | 105,750,000 | 105,900,000 | 1411 | 484 | 0.296941226 | |
| 7 | 105,825,000 | 105,975,000 | 1412 | 264 | 1.056960368 | |
| 7 | 105,900,000 | 106,050,000 | 1413 | 761 | 0.83139939 | |
| 7 | 105,975,000 | 106,125,000 | 1414 | 1002 | 0.573680904 | |
| 7 | 106,050,000 | 106,200,000 | 1415 | 879 | 0.280624866 | |
| 7 | 106,125,000 | 106,275,000 | 1416 | 864 | -0.336017851 | |
| 7 | 106,200,000 | 106,350,000 | 1417 | 793 | -0.559343099 | |
| 7 | 106,275,000 | 106,425,000 | 1418 | 740 | 0.154767896 | |
| 7 | 106,350,000 | 106,500,000 | 1419 | 767 | 0.359164083 | |
| 7 | 106,425,000 | 106,575,000 | 1420 | 689 | 0.477379573 | |
| 7 | 106,500,000 | 106,650,000 | 1421 | 834 | 0.395419397 | |
| 7 | 106,575,000 | 106,725,000 | 1422 | 848 | 0.263063699 | |
| 7 | 106,650,000 | 106,800,000 | 1423 | 1002 | 0.137177482 | |
| 7 | 106,725,000 | 106,875,000 | 1424 | 1264 | 0.617280174 | |
| 7 | 106,800,000 | 106,950,000 | 1425 | 942 | 0.805463768 | |
| 7 | 106,875,000 | 107,025,000 | 1426 | 662 | 0.017069694 | |
| 7 | 106,950,000 | 107,100,000 | 1427 | 616 | -0.647150929 | |
| 7 | 107,025,000 | 107,175,000 | 1428 | 965 | 0.433292924 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------|
| 7 | 107,100,000 | 107,250,000 | 1429 | 1399 | 0.716909899 | |
| 7 | 107,175,000 | 107,325,000 | 1430 | 1272 | 0.585986172 | |
| 7 | 107,250,000 | 107,400,000 | 1431 | 914 | 0.715355978 | |
| 7 | 107,325,000 | 107,475,000 | 1432 | 934 | 0.664648277 | |
| 7 | 107,400,000 | 107,550,000 | 1433 | 951 | 0.259843783 | |
| 7 | 107,475,000 | 107,625,000 | 1434 | 603 | 0.148307533 | |
| 7 | 107,550,000 | 107,700,000 | 1435 | 673 | 0.461863113 | |
| 7 | 107,625,000 | 107,775,000 | 1436 | 1083 | -0.538602358 | |
| 7 | 107,700,000 | 107,850,000 | 1437 | 1160 | -1.235657235 | |
| 7 | 107,775,000 | 107,925,000 | 1438 | 953 | -1.50987455 | |
| 7 | 107,850,000 | 108,000,000 | 1439 | 941 | -2.37340972 | |
| 7 | 107,925,000 | 108,075,000 | 1440 | 1289 | -1.23965292 | |
| 7 | 108,000,000 | 108,150,000 | 1441 | 1366 | -0.160149577 | |
| 7 | 108,075,000 | 108,225,000 | 1442 | 1243 | 0.282762109 | |
| 7 | 108,150,000 | 108,300,000 | 1443 | 1168 | 0.132089833 | |
| 7 | 108,225,000 | 108,375,000 | 1444 | 960 | -0.137682652 | |
| 7 | 108,300,000 | 108,450,000 | 1445 | 1069 | -0.665351643 | |
| 7 | 108,375,000 | 108,525,000 | 1446 | 925 | -0.975859553 | |
| 7 | 108,450,000 | 108,600,000 | 1447 | 770 | -0.53299725 | |
| 7 | 108,525,000 | 108,675,000 | 1448 | 749 | -0.083138004 | |
| 7 | 108,600,000 | 108,750,000 | 1449 | 505 | 0.201119198 | |
| 7 | 108,675,000 | 108,825,000 | 1450 | 538 | -0.380090421 | |
| 7 | 108,750,000 | 108,900,000 | 1451 | 658 | -1.010602717 | |
| 7 | 108,825,000 | 108,975,000 | 1452 | 591 | -0.909720543 | |
| 7 | 108,900,000 | 109,050,000 | 1453 | 595 | 0.126674619 | EFNA5 |
| 7 | 108,975,000 | 109,125,000 | 1454 | 681 | -0.201960717 | EFNA5 |
| 7 | 109,050,000 | 109,200,000 | 1455 | 962 | -0.504111583 | EFNA5 |
| 7 | 109,125,000 | 109,275,000 | 1456 | 1051 | -0.369396018 | EFNA5 |
| 7 | 109,200,000 | 109,350,000 | 1457 | 694 | -0.164860843 | EFNA5 |
| 7 | 109,275,000 | 109,425,000 | 1458 | 918 | 0.729946717 | |
| 7 | 109,350,000 | 109,500,000 | 1459 | 1450 | 0.869501303 | |
| 7 | 109,425,000 | 109,575,000 | 1460 | 1542 | 0.94901906 | |
| 7 | 109,500,000 | 109,650,000 | 1461 | 1400 | 0.671959624 | |
| 7 | 109,575,000 | 109,725,000 | 1462 | 1336 | 0.104706613 | |
| 7 | 109,650,000 | 109,800,000 | 1463 | 1127 | 0.188749901 | |
| 7 | 109,725,000 | 109,875,000 | 1464 | 760 | 0.812809075 | |
| 7 | 109,800,000 | 109,950,000 | 1465 | 733 | 0.620843662 | |
| 7 | 109,875,000 | 110,025,000 | 1466 | 747 | 0.194433103 | FBXL17 |
| 7 | 109,950,000 | 110,100,000 | 1467 | 698 | 0.277935743 | FBXL17 |
| 7 | 110,025,000 | 110,175,000 | 1468 | 770 | 0.714150323 | FBXL17 |
| 7 | 110,100,000 | 110,250,000 | 1469 | 851 | 0.939656841 | |
| 7 | 110,175,000 | 110,325,000 | 1470 | 1142 | 0.258640676 | |
| 7 | 110,250,000 | 110,400,000 | 1471 | 1199 | -0.677539431 | |
| 7 | 110,325,000 | 110,475,000 | 1472 | 779 | -0.666858503 | FER |
| 7 | 110,400,000 | 110,550,000 | 1473 | 556 | 0.068072356 | FER |
| 7 | 110,475,000 | 110,625,000 | 1474 | 453 | -0.382731314 | FER |
| 7 | 110,550,000 | 110,700,000 | 1475 | 526 | -2.543916442 | FER |
| 7 | 110,625,000 | 110,775,000 | 1476 | 523 | -3.711857727 | FER |
| 7 | 110,700,000 | 110,850,000 | 1477 | 323 | -2.674929536 | FER |
| 7 | 110,775,000 | 110,925,000 | 1478 | 419 | -1.66251371 | FER |
| 7 | 110,850,000 | 111,000,000 | 1479 | 890 | -0.004306352 | FER |
| 7 | 110,925,000 | 111,075,000 | 1480 | 806 | 0.671389556 | PJA2 |
| 7 | 111,000,000 | 111,150,000 | 1481 | 494 | -0.175905157 | PJA2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|----------------------------------|
| 7 | 111,075,000 | 111,225,000 | 1482 | 900 | 0.101518946 | PJA2 |
| 7 | 111,150,000 | 111,300,000 | 1483 | 1202 | 0.598895794 | |
| 7 | 111,225,000 | 111,375,000 | 1484 | 1151 | 0.914220805 | |
| 7 | 111,300,000 | 111,450,000 | 1485 | 906 | 0.602234529 | MAN2A1 |
| 7 | 111,375,000 | 111,525,000 | 1486 | 592 | -0.057517653 | MAN2A1 |
| 7 | 111,450,000 | 111,600,000 | 1487 | 565 | 0.604285708 | MAN2A1 |
| 7 | 111,525,000 | 111,675,000 | 1488 | 994 | 1.083257967 | MAN2A1 |
| 7 | 111,600,000 | 111,750,000 | 1489 | 1147 | 0.671164096 | MAN2A1 |
| 7 | 111,675,000 | 111,825,000 | 1490 | 1239 | 0.172471602 | |
| 7 | 111,750,000 | 111,900,000 | 1491 | 1263 | 0.474827997 | |
| 7 | 111,825,000 | 111,975,000 | 1492 | 910 | 0.588828769 | |
| 7 | 111,900,000 | 112,050,000 | 1493 | 663 | 0.371731659 | |
| 7 | 111,975,000 | 112,125,000 | 1494 | 699 | -0.219503584 | |
| 7 | 112,050,000 | 112,200,000 | 1495 | 917 | -1.427415679 | TMEM232 |
| 7 | 112,125,000 | 112,275,000 | 1496 | 748 | -1.927238606 | TMEM232 |
| 7 | 112,200,000 | 112,350,000 | 1497 | 498 | -0.683315898 | SLC25A46,TMEM232 |
| 7 | 112,275,000 | 112,425,000 | 1498 | 413 | -0.497312944 | SLC25A46,TMEM232 |
| 7 | 112,350,000 | 112,500,000 | 1499 | 349 | -0.584511368 | SLC25A46 |
| 7 | 112,425,000 | 112,575,000 | 1500 | 399 | -0.6270137 | |
| 7 | 112,500,000 | 112,638,659 | 1501 | 357 | -0.43135823 | |
| 8 | 0 | 150,000 | 1 | 210 | -0.988114991 | HIATL1 |
| 8 | 75,000 | 225,000 | 2 | 267 | -0.445874814 | HIATL1 |
| 8 | 150,000 | 300,000 | 3 | 289 | -0.33962194 | HIATL1 |
| 8 | 225,000 | 375,000 | 4 | 379 | 0.115594089 | ANXA10,HIATL1 |
| 8 | 300,000 | 450,000 | 5 | 661 | 0.889311166 | ANXA10 |
| 8 | 375,000 | 525,000 | 6 | 774 | 1.044136473 | ANXA10 |
| 8 | 450,000 | 600,000 | 7 | 743 | 0.942121576 | ANXA10,PALLD |
| 8 | 525,000 | 675,000 | 8 | 675 | 0.947251503 | ANXA10,PALLD |
| 8 | 600,000 | 750,000 | 9 | 730 | 0.758757025 | PALLD |
| 8 | 675,000 | 825,000 | 10 | 863 | 0.309743995 | PALLD |
| 8 | 750,000 | 900,000 | 11 | 787 | -0.034558721 | PALLD |
| 8 | 825,000 | 975,000 | 12 | 634 | -0.346903074 | CBR4,PALLD |
| 8 | 900,000 | 1,050,000 | 13 | 631 | -0.204551284 | CBR4,PALLD,SH3RF1 |
| 8 | 975,000 | 1,125,000 | 14 | 646 | -0.124990512 | SH3RF1 |
| 8 | 1,050,000 | 1,200,000 | 15 | 825 | -0.299351964 | SH3RF1 |
| 8 | 1,125,000 | 1,275,000 | 16 | 942 | 0.07492407 | NEK1 |
| 8 | 1,200,000 | 1,350,000 | 17 | 979 | 0.934518561 | NEK1 |
| 8 | 1,275,000 | 1,425,000 | 18 | 1006 | 1.075146087 | NEK1 |
| 8 | 1,350,000 | 1,500,000 | 19 | 671 | 0.972914484 | CLCN3,NEK1 |
| 8 | 1,425,000 | 1,575,000 | 20 | 470 | -0.085667137 | C4orf27,CLCN3,ENSBTAG00000035293 |
| 8 | 1,500,000 | 1,650,000 | 21 | 702 | 0.252307197 | C4orf27,CLCN3,ENSBTAG00000035293 |
| 8 | 1,575,000 | 1,725,000 | 22 | 837 | 0.518629988 | MFAP3L |
| 8 | 1,650,000 | 1,800,000 | 23 | 957 | 0.429441308 | AADAT,MFAP3L |
| 8 | 1,725,000 | 1,875,000 | 24 | 1052 | 0.607844738 | AADAT |
| 8 | 1,800,000 | 1,950,000 | 25 | 823 | -0.476798352 | AADAT |
| 8 | 1,875,000 | 2,025,000 | 26 | 839 | -0.71370181 | |
| 8 | 1,950,000 | 2,100,000 | 27 | 959 | 0.811664798 | |
| 8 | 2,025,000 | 2,175,000 | 28 | 802 | 0.396472717 | |
| 8 | 2,100,000 | 2,250,000 | 29 | 1087 | -0.977533207 | |
| 8 | 2,175,000 | 2,325,000 | 30 | 1489 | 0.133436332 | |
| 8 | 2,250,000 | 2,400,000 | 31 | 1099 | -0.575785771 | |
| 8 | 2,325,000 | 2,475,000 | 32 | 759 | -3.405401012 | |
| 8 | 2,400,000 | 2,550,000 | 33 | 927 | -0.373153512 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|--------------------------|
| 8 | 2,475,000 | 2,625,000 | 34 | 870 | 0.260282469 | |
| 8 | 2,550,000 | 2,700,000 | 35 | 911 | 1.126689031 | |
| 8 | 2,625,000 | 2,775,000 | 36 | 1167 | 1.166143407 | |
| 8 | 2,700,000 | 2,850,000 | 37 | 1005 | 1.122264779 | |
| 8 | 2,775,000 | 2,925,000 | 38 | 951 | 1.020545478 | |
| 8 | 2,850,000 | 3,000,000 | 39 | 802 | 1.126355142 | |
| 8 | 2,925,000 | 3,075,000 | 40 | 664 | -1.269183411 | |
| 8 | 3,000,000 | 3,150,000 | 41 | 1000 | -0.398880093 | |
| 8 | 3,075,000 | 3,225,000 | 42 | 1273 | -0.862747072 | |
| 8 | 3,150,000 | 3,300,000 | 43 | 1296 | -2.796006473 | |
| 8 | 3,225,000 | 3,375,000 | 44 | 1280 | -2.524156949 | |
| 8 | 3,300,000 | 3,450,000 | 45 | 1275 | -2.123560565 | |
| 8 | 3,375,000 | 3,525,000 | 46 | 1574 | -2.933078851 | |
| 8 | 3,450,000 | 3,600,000 | 47 | 1688 | -1.280739156 | |
| 8 | 3,525,000 | 3,675,000 | 48 | 1514 | 0.52011769 | |
| 8 | 3,600,000 | 3,750,000 | 49 | 1123 | 0.337712903 | |
| 8 | 3,675,000 | 3,825,000 | 50 | 965 | -0.040916772 | GALNTL6 |
| 8 | 3,750,000 | 3,900,000 | 51 | 1070 | -0.522751997 | GALNTL6 |
| 8 | 3,825,000 | 3,975,000 | 52 | 688 | -1.26737249 | GALNTL6 |
| 8 | 3,900,000 | 4,050,000 | 53 | 364 | -1.39625565 | GALNTL6 |
| 8 | 3,975,000 | 4,125,000 | 54 | 407 | 0.178942482 | GALNTL6 |
| 8 | 4,050,000 | 4,200,000 | 55 | 501 | 0.825611109 | GALNTL6 |
| 8 | 4,125,000 | 4,275,000 | 56 | 718 | 0.591952362 | GALNTL6 |
| 8 | 4,200,000 | 4,350,000 | 57 | 891 | 0.614695423 | GALNTL6 |
| 8 | 4,275,000 | 4,425,000 | 58 | 887 | 1.067962449 | GALNTL6 |
| 8 | 4,350,000 | 4,500,000 | 59 | 1019 | 1.174211491 | GALNTL6 |
| 8 | 4,425,000 | 4,575,000 | 60 | 963 | 0.233443628 | GALNTL6 |
| 8 | 4,500,000 | 4,650,000 | 61 | 779 | -0.656018139 | GALNTL6 |
| 8 | 4,575,000 | 4,725,000 | 62 | 1045 | -1.295250988 | GALNTL6 |
| 8 | 4,650,000 | 4,800,000 | 63 | 1080 | -1.108257819 | GALNTL6 |
| 8 | 4,725,000 | 4,875,000 | 64 | 569 | 0.328752413 | GALNTL6 |
| 8 | 4,800,000 | 4,950,000 | 65 | 387 | 0.773886674 | GALNTL6 |
| 8 | 4,875,000 | 5,025,000 | 66 | 513 | -1.682993439 | GALNTL6 |
| 8 | 4,950,000 | 5,100,000 | 67 | 692 | -1.251991151 | GALNTL6 |
| 8 | 5,025,000 | 5,175,000 | 68 | 833 | -1.35211232 | GALNTL6 |
| 8 | 5,100,000 | 5,250,000 | 69 | 749 | -1.860857305 | GALNTL6 |
| 8 | 5,175,000 | 5,325,000 | 70 | 793 | 0.545198503 | GALNTL6 |
| 8 | 5,250,000 | 5,400,000 | 71 | 932 | 0.836092159 | GALNTL6 |
| 8 | 5,325,000 | 5,475,000 | 72 | 766 | 0.586168925 | GALNTL6 |
| 8 | 5,400,000 | 5,550,000 | 73 | 761 | 0.849013274 | GALNT7 |
| 8 | 5,475,000 | 5,625,000 | 74 | 736 | 0.543031109 | GALNT7,HMGB2,SAP30 |
| 8 | 5,550,000 | 5,700,000 | 75 | 697 | 0.500458141 | GALNT7,HMGB2,SAP30,SCRG1 |
| 8 | 5,625,000 | 5,775,000 | 76 | 683 | 0.554087707 | HAND2,SCRG1 |
| 8 | 5,700,000 | 5,850,000 | 77 | 601 | 0.569067956 | HAND2 |
| 8 | 5,775,000 | 5,925,000 | 78 | 517 | 0.730556773 | |
| 8 | 5,850,000 | 6,000,000 | 79 | 788 | 0.571956267 | |
| 8 | 5,925,000 | 6,075,000 | 80 | 741 | 0.569757835 | |
| 8 | 6,000,000 | 6,150,000 | 81 | 320 | 0.737945377 | |
| 8 | 6,075,000 | 6,225,000 | 82 | 295 | 0.113193762 | |
| 8 | 6,150,000 | 6,300,000 | 83 | 388 | -0.573706061 | |
| 8 | 6,225,000 | 6,375,000 | 84 | 413 | 0.200173485 | |
| 8 | 6,300,000 | 6,450,000 | 85 | 426 | 0.818396351 | CEP44,FBXO8 |
| 8 | 6,375,000 | 6,525,000 | 86 | 419 | 0.734677654 | CEP44,FBXO8 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 6,450,000 | 6,600,000 | 87 | 307 | 0.716438979 | CEP44 |
| 8 | 6,525,000 | 6,675,000 | 88 | 447 | 0.806268095 | HPGD |
| 8 | 6,600,000 | 6,750,000 | 89 | 752 | 0.763713209 | HPGD |
| 8 | 6,675,000 | 6,825,000 | 90 | 656 | 0.534344314 | GLRA3,HPGD |
| 8 | 6,750,000 | 6,900,000 | 91 | 519 | 0.565728084 | GLRA3 |
| 8 | 6,825,000 | 6,975,000 | 92 | 563 | 1.066833328 | GLRA3 |
| 8 | 6,900,000 | 7,050,000 | 93 | 816 | 0.727065637 | GLRA3 |
| 8 | 6,975,000 | 7,125,000 | 94 | 817 | 0.606484203 | ENSBTAG00000035768 |
| 8 | 7,050,000 | 7,200,000 | 95 | 497 | 0.705801349 | ENSBTAG00000008678,ENSBTAG00000025954,ENSBTAG0000035768,ENSBTAG00000039873 |
| 8 | 7,125,000 | 7,275,000 | 96 | 651 | 0.865025646 | ENSBTAG00000008678,ENSBTAG00000025954,ENSBTAG0000039873 |
| 8 | 7,200,000 | 7,350,000 | 97 | 869 | -0.099486037 | |
| 8 | 7,275,000 | 7,425,000 | 98 | 787 | -0.94783268 | CTSB |
| 8 | 7,350,000 | 7,500,000 | 99 | 797 | -0.091514647 | CTSB,FDFT1,GATA4,NEIL2 |
| 8 | 7,425,000 | 7,575,000 | 100 | 702 | 0.63250585 | FDFT1,GATA4,NEIL2 |
| 8 | 7,500,000 | 7,650,000 | 101 | 764 | 1.195433782 | GATA4 |
| 8 | 7,575,000 | 7,725,000 | 102 | 1218 | 1.201038217 | BLK |
| 8 | 7,650,000 | 7,800,000 | 103 | 1217 | 1.072708111 | BLK,FAM167A,TDH |
| 8 | 7,725,000 | 7,875,000 | 104 | 891 | 0.557186298 | FAM167A,MTMR9,TDH |
| 8 | 7,800,000 | 7,950,000 | 105 | 871 | 0.720270877 | MTMR9,TDH |
| 8 | 7,875,000 | 8,025,000 | 106 | 766 | 1.106900278 | MTMR9,XKR6 |
| 8 | 7,950,000 | 8,100,000 | 107 | 612 | 1.10035245 | XKR6 |
| 8 | 8,025,000 | 8,175,000 | 108 | 838 | 1.105155146 | |
| 8 | 8,100,000 | 8,250,000 | 109 | 689 | 0.918372095 | |
| 8 | 8,175,000 | 8,325,000 | 110 | 684 | 0.393654083 | FLJ20565,ENSBTAG00000048007 |
| 8 | 8,250,000 | 8,400,000 | 111 | 784 | 0.438036992 | FLJ20565,ENSBTAG00000048007 |
| 8 | 8,325,000 | 8,475,000 | 112 | 589 | -0.918411411 | C8orf74,FLJ20565,SOX7 |
| 8 | 8,400,000 | 8,550,000 | 113 | 565 | -1.456945909 | C8orf74,RP1L1,SOX7 |
| 8 | 8,475,000 | 8,625,000 | 114 | 473 | 0.393822905 | PRSS55,RP1L1,ENSBTAG00000038291,ENSBTAG00000040038 |
| 8 | 8,550,000 | 8,700,000 | 115 | 420 | -0.013558942 | MSRA,PRSS55,ENSBTAG00000038291,ENSBTAG00000040038 |
| 8 | 8,625,000 | 8,775,000 | 116 | 521 | -0.286977445 | MSRA,ENSBTAG00000040038 |
| 8 | 8,700,000 | 8,850,000 | 117 | 460 | 0.745093143 | MSRA |
| 8 | 8,775,000 | 8,925,000 | 118 | 764 | 0.247689148 | MSRA |
| 8 | 8,850,000 | 9,000,000 | 119 | 922 | 0.192635906 | MSRA |
| 8 | 8,925,000 | 9,075,000 | 120 | 740 | 0.504727621 | MSRA |
| 8 | 9,000,000 | 9,150,000 | 121 | 759 | 0.634517636 | MSRA |
| 8 | 9,075,000 | 9,225,000 | 122 | 949 | 0.364032209 | |
| 8 | 9,150,000 | 9,300,000 | 123 | 1152 | -0.731653682 | KIF13B |
| 8 | 9,225,000 | 9,375,000 | 124 | 1027 | -0.43330185 | KIF13B |
| 8 | 9,300,000 | 9,450,000 | 125 | 1204 | 0.693856731 | KIF13B |
| 8 | 9,375,000 | 9,525,000 | 126 | 1256 | 0.756883332 | HMBOX1,KIF13B |
| 8 | 9,450,000 | 9,600,000 | 127 | 927 | 0.558223304 | HMBOX1,KIF13B |
| 8 | 9,525,000 | 9,675,000 | 128 | 883 | -1.388763274 | HMBOX1 |
| 8 | 9,600,000 | 9,750,000 | 129 | 805 | -1.955782213 | HMBOX1,INTS9 |
| 8 | 9,675,000 | 9,825,000 | 130 | 903 | -0.327837704 | HMBOX1,INTS9 |
| 8 | 9,750,000 | 9,900,000 | 131 | 811 | -0.258657027 | EXTL3,INTS9 |
| 8 | 9,825,000 | 9,975,000 | 132 | 521 | 0.041554045 | EXTL3 |
| 8 | 9,900,000 | 10,050,000 | 133 | 719 | -0.545872865 | FZD3 |
| 8 | 9,975,000 | 10,125,000 | 134 | 615 | -0.92799308 | FZD3,ENSBTAG00000034626 |
| 8 | 10,050,000 | 10,200,000 | 135 | 412 | -0.698098765 | FZD3,ZNF395,ENSBTAG00000034626 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------|
| 8 | 10,125,000 | 10,275,000 | 136 | 578 | -0.264884739 | PNOC,ZNF395,ENSBTAG00000034626 |
| 8 | 10,200,000 | 10,350,000 | 137 | 1096 | 0.068403661 | PNOC,ZNF395 |
| 8 | 10,275,000 | 10,425,000 | 138 | 1404 | 0.68946958 | PNOC |
| 8 | 10,350,000 | 10,500,000 | 139 | 1494 | 1.184351867 | ELP3 |
| 8 | 10,425,000 | 10,575,000 | 140 | 1651 | 0.912971591 | ELP3 |
| 8 | 10,500,000 | 10,650,000 | 141 | 1546 | -0.0760202 | ELP3,NUGGC |
| 8 | 10,575,000 | 10,725,000 | 142 | 1339 | -0.980243047 | ELP3,NUGGC,SCARA5 |
| 8 | 10,650,000 | 10,800,000 | 143 | 1131 | -0.265572365 | SCARA5 |
| 8 | 10,725,000 | 10,875,000 | 144 | 746 | 0.723169169 | ESCO2,PBK,SCARA5 |
| 8 | 10,800,000 | 10,950,000 | 145 | 522 | 1.053692629 | CCDC25,ESCO2,PBK |
| 8 | 10,875,000 | 11,025,000 | 146 | 565 | 0.605492925 | CCDC25,ESCO2,SCARA3 |
| 8 | 10,950,000 | 11,100,000 | 147 | 812 | 0.565107618 | CLU,SCARA3 |
| 8 | 11,025,000 | 11,175,000 | 148 | 1060 | 0.749751971 | CLU |
| 8 | 11,100,000 | 11,250,000 | 149 | 1112 | -0.011078531 | TMEM215 |
| 8 | 11,175,000 | 11,325,000 | 150 | 1562 | -1.230740346 | TMEM215 |
| 8 | 11,250,000 | 11,400,000 | 151 | 1642 | -0.991960594 | NDUFB6,TOPORS |
| 8 | 11,325,000 | 11,475,000 | 152 | 1314 | -0.049328649 | DDX58,NDUFB6,TOPORS |
| 8 | 11,400,000 | 11,550,000 | 153 | 1293 | 0.55484307 | ACO1,DDX58,TOPORS |
| 8 | 11,475,000 | 11,625,000 | 154 | 1382 | 0.638453934 | ACO1 |
| 8 | 11,550,000 | 11,700,000 | 155 | 1514 | 0.33882826 | |
| 8 | 11,625,000 | 11,775,000 | 156 | 1649 | -0.230394221 | |
| 8 | 11,700,000 | 11,850,000 | 157 | 1489 | -0.18719824 | |
| 8 | 11,775,000 | 11,925,000 | 158 | 1324 | 0.651731287 | |
| 8 | 11,850,000 | 12,000,000 | 159 | 983 | 0.71909128 | |
| 8 | 11,925,000 | 12,075,000 | 160 | 723 | 0.808814813 | |
| 8 | 12,000,000 | 12,150,000 | 161 | 1108 | 0.753142945 | |
| 8 | 12,075,000 | 12,225,000 | 162 | 1655 | 0.421086833 | |
| 8 | 12,150,000 | 12,300,000 | 163 | 1838 | 0.373685862 | |
| 8 | 12,225,000 | 12,375,000 | 164 | 1779 | 0.862256577 | |
| 8 | 12,300,000 | 12,450,000 | 165 | 1926 | 1.112801456 | |
| 8 | 12,375,000 | 12,525,000 | 166 | 1808 | 0.984315125 | |
| 8 | 12,450,000 | 12,600,000 | 167 | 1489 | 1.054322932 | |
| 8 | 12,525,000 | 12,675,000 | 168 | 1670 | 1.223976708 | |
| 8 | 12,600,000 | 12,750,000 | 169 | 2111 | 1.119845866 | |
| 8 | 12,675,000 | 12,825,000 | 170 | 2252 | 0.966243886 | |
| 8 | 12,750,000 | 12,900,000 | 171 | 2110 | 0.661123765 | |
| 8 | 12,825,000 | 12,975,000 | 172 | 1788 | -0.722689791 | |
| 8 | 12,900,000 | 13,050,000 | 173 | 1705 | -1.687002362 | |
| 8 | 12,975,000 | 13,125,000 | 174 | 1855 | -1.309237778 | |
| 8 | 13,050,000 | 13,200,000 | 175 | 2054 | -0.724739383 | |
| 8 | 13,125,000 | 13,275,000 | 176 | 1879 | -0.951666865 | |
| 8 | 13,200,000 | 13,350,000 | 177 | 1728 | -0.435363289 | |
| 8 | 13,275,000 | 13,425,000 | 178 | 1018 | 0.393190187 | |
| 8 | 13,350,000 | 13,500,000 | 179 | 812 | 1.052841916 | |
| 8 | 13,425,000 | 13,575,000 | 180 | 991 | 0.785140844 | |
| 8 | 13,500,000 | 13,650,000 | 181 | 452 | -0.034852232 | |
| 8 | 13,575,000 | 13,725,000 | 182 | 673 | 0.081115394 | |
| 8 | 13,650,000 | 13,800,000 | 183 | 797 | 0.381320015 | |
| 8 | 13,725,000 | 13,875,000 | 184 | 914 | -0.450056187 | |
| 8 | 13,800,000 | 13,950,000 | 185 | 1035 | -1.490452152 | |
| 8 | 13,875,000 | 14,025,000 | 186 | 968 | -1.57181284 | |
| 8 | 13,950,000 | 14,100,000 | 187 | 1108 | -0.779002359 | |
| 8 | 14,025,000 | 14,175,000 | 188 | 1176 | -0.220030337 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------------|
| 8 | 14,100,000 | 14,250,000 | 189 | 916 | -0.392966197 | |
| 8 | 14,175,000 | 14,325,000 | 190 | 771 | -1.874863755 | |
| 8 | 14,250,000 | 14,400,000 | 191 | 658 | -1.915808162 | |
| 8 | 14,325,000 | 14,475,000 | 192 | 595 | -1.843879001 | |
| 8 | 14,400,000 | 14,550,000 | 193 | 590 | -1.6816312 | |
| 8 | 14,475,000 | 14,625,000 | 194 | 494 | 0.342296822 | |
| 8 | 14,550,000 | 14,700,000 | 195 | 949 | 0.253743123 | |
| 8 | 14,625,000 | 14,775,000 | 196 | 1032 | 0.317410059 | |
| 8 | 14,700,000 | 14,850,000 | 197 | 669 | 0.883993653 | |
| 8 | 14,775,000 | 14,925,000 | 198 | 711 | 0.798384692 | |
| 8 | 14,850,000 | 15,000,000 | 199 | 726 | 0.833231384 | |
| 8 | 14,925,000 | 15,075,000 | 200 | 872 | 1.191849459 | |
| 8 | 15,000,000 | 15,150,000 | 201 | 1074 | 0.430391582 | |
| 8 | 15,075,000 | 15,225,000 | 202 | 938 | -1.848165269 | |
| 8 | 15,150,000 | 15,300,000 | 203 | 833 | -2.539552201 | |
| 8 | 15,225,000 | 15,375,000 | 204 | 940 | -0.378638742 | |
| 8 | 15,300,000 | 15,450,000 | 205 | 1259 | 0.274114583 | |
| 8 | 15,375,000 | 15,525,000 | 206 | 1166 | 0.17282469 | |
| 8 | 15,450,000 | 15,600,000 | 207 | 928 | -0.010324738 | |
| 8 | 15,525,000 | 15,675,000 | 208 | 993 | -1.267011863 | |
| 8 | 15,600,000 | 15,750,000 | 209 | 1152 | -0.9284488 | |
| 8 | 15,675,000 | 15,825,000 | 210 | 1181 | -0.730281774 | |
| 8 | 15,750,000 | 15,900,000 | 211 | 1063 | -0.21905243 | |
| 8 | 15,825,000 | 15,975,000 | 212 | 902 | 0.873830416 | |
| 8 | 15,900,000 | 16,050,000 | 213 | 682 | 1.053867364 | |
| 8 | 15,975,000 | 16,125,000 | 214 | 532 | 0.436338431 | |
| 8 | 16,050,000 | 16,200,000 | 215 | 567 | 0.327433147 | |
| 8 | 16,125,000 | 16,275,000 | 216 | 497 | 0.566247532 | LINGO2 |
| 8 | 16,200,000 | 16,350,000 | 217 | 507 | 0.33599605 | LINGO2 |
| 8 | 16,275,000 | 16,425,000 | 218 | 697 | -0.182226224 | |
| 8 | 16,350,000 | 16,500,000 | 219 | 795 | -0.892634644 | |
| 8 | 16,425,000 | 16,575,000 | 220 | 725 | -0.427065193 | |
| 8 | 16,500,000 | 16,650,000 | 221 | 579 | 0.536942393 | |
| 8 | 16,575,000 | 16,725,000 | 222 | 550 | 0.700394971 | C9orf72 |
| 8 | 16,650,000 | 16,800,000 | 223 | 512 | 0.672832 | C9orf72,IFNK,MOB3B |
| 8 | 16,725,000 | 16,875,000 | 224 | 406 | 0.67970874 | IFNK,MOB3B |
| 8 | 16,800,000 | 16,950,000 | 225 | 600 | 0.82888848 | MOB3B |
| 8 | 16,875,000 | 17,025,000 | 226 | 925 | 0.469417721 | EQTN,MOB3B,ENSBTAG00000020151 |
| 8 | 16,950,000 | 17,100,000 | 227 | 825 | 0.268909296 | EQTN,MOB3B,TEK,ENSBTAG00000020151 |
| 8 | 17,025,000 | 17,175,000 | 228 | 561 | 0.73633745 | TEK,ENSBTAG00000020151 |
| 8 | 17,100,000 | 17,250,000 | 229 | 311 | 0.525191981 | IFT74,LRRRC19,TEK |
| 8 | 17,175,000 | 17,325,000 | 230 | 328 | -0.430980606 | CAAP1,IFT74,LRRRC19,PLAA |
| 8 | 17,250,000 | 17,400,000 | 231 | 451 | 0.219287644 | CAAP1,IFT74,PLAA |
| 8 | 17,325,000 | 17,475,000 | 232 | 560 | 0.941995453 | CAAP1 |
| 8 | 17,400,000 | 17,550,000 | 233 | 674 | 0.780957142 | |
| 8 | 17,475,000 | 17,625,000 | 234 | 575 | 0.242427963 | |
| 8 | 17,550,000 | 17,700,000 | 235 | 892 | -1.636001111 | |
| 8 | 17,625,000 | 17,775,000 | 236 | 884 | -1.206369239 | |
| 8 | 17,700,000 | 17,850,000 | 237 | 559 | -0.56255819 | |
| 8 | 17,775,000 | 17,925,000 | 238 | 709 | -0.599774495 | |
| 8 | 17,850,000 | 18,000,000 | 239 | 590 | -0.162219195 | |
| 8 | 17,925,000 | 18,075,000 | 240 | 467 | -0.125372527 | |
| 8 | 18,000,000 | 18,150,000 | 241 | 548 | -1.231157515 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------|
| 8 | 18,075,000 | 18,225,000 | 242 | 644 | -1.410954422 | |
| 8 | 18,150,000 | 18,300,000 | 243 | 1076 | 0.257272109 | |
| 8 | 18,225,000 | 18,375,000 | 244 | 1258 | 0.692864094 | |
| 8 | 18,300,000 | 18,450,000 | 245 | 1357 | 0.524267562 | |
| 8 | 18,375,000 | 18,525,000 | 246 | 1254 | 0.225344995 | |
| 8 | 18,450,000 | 18,600,000 | 247 | 661 | -0.980989551 | TUSC1 |
| 8 | 18,525,000 | 18,675,000 | 248 | 486 | -1.55526263 | TUSC1 |
| 8 | 18,600,000 | 18,750,000 | 249 | 414 | -0.908652421 | |
| 8 | 18,675,000 | 18,825,000 | 250 | 581 | 0.972276803 | |
| 8 | 18,750,000 | 18,900,000 | 251 | 685 | 1.130097806 | |
| 8 | 18,825,000 | 18,975,000 | 252 | 737 | 0.702888369 | |
| 8 | 18,900,000 | 19,050,000 | 253 | 863 | -0.172905555 | |
| 8 | 18,975,000 | 19,125,000 | 254 | 809 | -0.843880268 | |
| 8 | 19,050,000 | 19,200,000 | 255 | 844 | 0.153104772 | |
| 8 | 19,125,000 | 19,275,000 | 256 | 617 | 0.191719617 | |
| 8 | 19,200,000 | 19,350,000 | 257 | 318 | -0.650322961 | |
| 8 | 19,275,000 | 19,425,000 | 258 | 250 | 0.049664027 | |
| 8 | 19,350,000 | 19,500,000 | 259 | 611 | 0.645780264 | |
| 8 | 19,425,000 | 19,575,000 | 260 | 796 | 0.00890688 | |
| 8 | 19,500,000 | 19,650,000 | 261 | 851 | -1.771210609 | IZUMO3 |
| 8 | 19,575,000 | 19,725,000 | 262 | 840 | -1.776678616 | IZUMO3 |
| 8 | 19,650,000 | 19,800,000 | 263 | 500 | -1.07470506 | |
| 8 | 19,725,000 | 19,875,000 | 264 | 801 | 0.712146823 | |
| 8 | 19,800,000 | 19,950,000 | 265 | 1064 | 0.33213046 | |
| 8 | 19,875,000 | 20,025,000 | 266 | 784 | -1.896401337 | |
| 8 | 19,950,000 | 20,100,000 | 267 | 447 | -2.14671601 | |
| 8 | 20,025,000 | 20,175,000 | 268 | 376 | -0.342107426 | |
| 8 | 20,100,000 | 20,250,000 | 269 | 543 | 0.355148762 | |
| 8 | 20,175,000 | 20,325,000 | 270 | 550 | 0.48449153 | |
| 8 | 20,250,000 | 20,400,000 | 271 | 543 | -0.056060296 | ELAVL2 |
| 8 | 20,325,000 | 20,475,000 | 272 | 709 | 0.308216654 | ELAVL2 |
| 8 | 20,400,000 | 20,550,000 | 273 | 1065 | 0.671855306 | ELAVL2 |
| 8 | 20,475,000 | 20,625,000 | 274 | 1095 | 0.738445474 | |
| 8 | 20,550,000 | 20,700,000 | 275 | 1025 | 0.5848255 | |
| 8 | 20,625,000 | 20,775,000 | 276 | 1211 | 0.473361182 | |
| 8 | 20,700,000 | 20,850,000 | 277 | 1159 | 0.808347075 | |
| 8 | 20,775,000 | 20,925,000 | 278 | 961 | 0.868797455 | |
| 8 | 20,850,000 | 21,000,000 | 279 | 1146 | 0.726757047 | |
| 8 | 20,925,000 | 21,075,000 | 280 | 1329 | 0.083873841 | |
| 8 | 21,000,000 | 21,150,000 | 281 | 922 | -0.434316388 | |
| 8 | 21,075,000 | 21,225,000 | 282 | 854 | 0.06396594 | |
| 8 | 21,150,000 | 21,300,000 | 283 | 852 | 0.054379909 | |
| 8 | 21,225,000 | 21,375,000 | 284 | 737 | 0.450352293 | |
| 8 | 21,300,000 | 21,450,000 | 285 | 723 | 0.196791001 | |
| 8 | 21,375,000 | 21,525,000 | 286 | 480 | -0.207376255 | |
| 8 | 21,450,000 | 21,600,000 | 287 | 377 | 0.468188926 | |
| 8 | 21,525,000 | 21,675,000 | 288 | 526 | 0.929095112 | |
| 8 | 21,600,000 | 21,750,000 | 289 | 636 | 1.204620758 | |
| 8 | 21,675,000 | 21,825,000 | 290 | 545 | 0.478725083 | DMRTA1 |
| 8 | 21,750,000 | 21,900,000 | 291 | 583 | 0.084920543 | DMRTA1 |
| 8 | 21,825,000 | 21,975,000 | 292 | 491 | 0.734131454 | |
| 8 | 21,900,000 | 22,050,000 | 293 | 232 | 0.47336985 | |
| 8 | 21,975,000 | 22,125,000 | 294 | 186 | 0.250567186 | CDKN2B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 22,050,000 | 22,200,000 | 295 | 259 | -0.750096611 | CDKN2A,CDKN2B |
| 8 | 22,125,000 | 22,275,000 | 296 | 237 | -1.340887965 | CDKN2A,ENSBTAG00000025929 |
| 8 | 22,200,000 | 22,350,000 | 297 | 310 | 0.355790507 | ENSBTAG00000025929 |
| 8 | 22,275,000 | 22,425,000 | 298 | 516 | 0.914546934 | |
| 8 | 22,350,000 | 22,500,000 | 299 | 497 | 0.344654605 | |
| 8 | 22,425,000 | 22,575,000 | 300 | 356 | 0.091292958 | IFNE |
| 8 | 22,500,000 | 22,650,000 | 301 | 740 | 0.26349225 | IFNE,IFNT |
| 8 | 22,575,000 | 22,725,000 | 302 | 833 | 0.204276289 | IFNT,INFAP,ENSBTAG00000025928,ENSBTAG00000047748,ENSBTAG00000048063 |
| 8 | 22,650,000 | 22,800,000 | 303 | 505 | -0.362393258 | IFNW1,INFAP,ENSBTAG00000025928,ENSBTAG00000046119,ENSBTAG00000046427,ENSBTAG00000047195,ENSBTAG00000047748,ENSBTAG00000047782,ENSBTAG00000048063 |
| 8 | 22,725,000 | 22,875,000 | 304 | 463 | -0.56304851 | IFN- TAU,IFNAG,IFNW1,ENSBTAG00000046119,ENSBTAG00000046427,ENSBTAG00000047195,ENSBTAG00000047745,ENSBTAG00000047782 |
| 8 | 22,800,000 | 22,950,000 | 305 | 414 | -0.064468894 | IFN- TAU,IFNAG,KLHL9,ENSBTAG00000034326,ENSBTAG00000046598,ENSBTAG00000047745 |
| 8 | 22,875,000 | 23,025,000 | 306 | 795 | -0.370151216 | IFNAG,KLHL9,ENSBTAG00000034326,ENSBTAG0000004552,ENSBTAG00000046443,ENSBTAG00000046598,ENSBTAG00000046629,ENSBTAG00000047134,ENSBTAG00000047413 |
| 8 | 22,950,000 | 23,100,000 | 307 | 1207 | -1.267064003 | IFNAH,ENSBTAG00000039963,ENSBTAG00000045552,ENSBTAG00000045845,ENSBTAG00000046097,ENSBTAG00000046443,ENSBTAG00000046629,ENSBTAG00000046815,ENSBTAG00000047134,ENSBTAG00000047413 |
| 8 | 23,025,000 | 23,175,000 | 308 | 1232 | -2.683713849 | IFNAH,ENSBTAG00000022787,ENSBTAG00000039827,ENSBTAG00000039963,ENSBTAG00000045845,ENSBTAG00000046097,ENSBTAG00000046683,ENSBTAG00000046815,ENSBTAG00000047982 |
| 8 | 23,100,000 | 23,250,000 | 309 | 1361 | -0.570525325 | IFNB1,IFNB3,ENSBTAG00000022787,ENSBTAG00000033708,ENSBTAG00000039827,ENSBTAG00000045674,ENSBTAG00000046683,ENSBTAG00000047982 |
| 8 | 23,175,000 | 23,325,000 | 310 | 1387 | 0.435953489 | IFNB1,IFNB2,IFNB3,IL6,ENSBTAG00000033708,ENSBTAG00000045674,ENSBTAG00000046967 |
| 8 | 23,250,000 | 23,400,000 | 311 | 1223 | 0.905648461 | IFNB2,IL6,KIAA1797,PTPLAD2,ENSBTAG00000046967 |
| 8 | 23,325,000 | 23,475,000 | 312 | 1104 | 0.477808607 | KIAA1797,PTPLAD2 |
| 8 | 23,400,000 | 23,550,000 | 313 | 1017 | 0.105554334 | KIAA1797 |
| 8 | 23,475,000 | 23,625,000 | 314 | 953 | 0.853956423 | KIAA1797 |
| 8 | 23,550,000 | 23,700,000 | 315 | 937 | 0.909412533 | KIAA1797 |
| 8 | 23,625,000 | 23,775,000 | 316 | 715 | 0.309435336 | KIAA1797,MLLT3 |
| 8 | 23,700,000 | 23,850,000 | 317 | 543 | -0.039137612 | MLLT3 |
| 8 | 23,775,000 | 23,925,000 | 318 | 463 | -0.282377653 | MLLT3 |
| 8 | 23,850,000 | 24,000,000 | 319 | 314 | -0.805502478 | MLLT3 |
| 8 | 23,925,000 | 24,075,000 | 320 | 473 | -0.528004855 | MLLT3 |
| 8 | 24,000,000 | 24,150,000 | 321 | 710 | 0.255371747 | MLLT3 |
| 8 | 24,075,000 | 24,225,000 | 322 | 827 | 0.761200672 | |
| 8 | 24,150,000 | 24,300,000 | 323 | 894 | 0.95434043 | |
| 8 | 24,225,000 | 24,375,000 | 324 | 1045 | 1.086686704 | |
| 8 | 24,300,000 | 24,450,000 | 325 | 1103 | 0.946546736 | |
| 8 | 24,375,000 | 24,525,000 | 326 | 962 | 0.224593702 | SLC24A2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 8 | 24,450,000 | 24,600,000 | 327 | 1015 | 0.147521725 | SLC24A2 |
| 8 | 24,525,000 | 24,675,000 | 328 | 1242 | 0.543002802 | SLC24A2 |
| 8 | 24,600,000 | 24,750,000 | 329 | 1330 | 0.738909755 | SLC24A2 |
| 8 | 24,675,000 | 24,825,000 | 330 | 1312 | 0.716587792 | SLC24A2 |
| 8 | 24,750,000 | 24,900,000 | 331 | 728 | 0.312901154 | ACER2,SLC24A2 |
| 8 | 24,825,000 | 24,975,000 | 332 | 147 | -1.233696193 | ACER2,DENND4C,RPS6 |
| 8 | 24,900,000 | 25,050,000 | 333 | 148 | 0.359043315 | DENND4C,RPS6 |
| 8 | 24,975,000 | 25,125,000 | 334 | 290 | 0.284191639 | DENND4C |
| 8 | 25,050,000 | 25,200,000 | 335 | 355 | 0.027233482 | HAUS6,PLIN2,RRAGA |
| 8 | 25,125,000 | 25,275,000 | 336 | 396 | 0.077633664 | FAM154A,HAUS6,PLIN2,RRAGA |
| 8 | 25,200,000 | 25,350,000 | 337 | 444 | 0.478335491 | ADAMTSL1,FAM154A |
| 8 | 25,275,000 | 25,425,000 | 338 | 390 | 0.484795617 | ADAMTSL1,FAM154A |
| 8 | 25,350,000 | 25,500,000 | 339 | 468 | -0.355930341 | ADAMTSL1 |
| 8 | 25,425,000 | 25,575,000 | 340 | 538 | -0.464366281 | ADAMTSL1 |
| 8 | 25,500,000 | 25,650,000 | 341 | 560 | -0.33488225 | ADAMTSL1 |
| 8 | 25,575,000 | 25,725,000 | 342 | 579 | -0.469139195 | ADAMTSL1 |
| 8 | 25,650,000 | 25,800,000 | 343 | 608 | 0.042723067 | ADAMTSL1 |
| 8 | 25,725,000 | 25,875,000 | 344 | 562 | 0.720663423 | ADAMTSL1 |
| 8 | 25,800,000 | 25,950,000 | 345 | 531 | 0.280462465 | ADAMTSL1 |
| 8 | 25,875,000 | 26,025,000 | 346 | 782 | -1.54404619 | |
| 8 | 25,950,000 | 26,100,000 | 347 | 732 | -2.21220971 | |
| 8 | 26,025,000 | 26,175,000 | 348 | 686 | -2.50829953 | |
| 8 | 26,100,000 | 26,250,000 | 349 | 725 | -1.471631883 | |
| 8 | 26,175,000 | 26,325,000 | 350 | 365 | 0.561486262 | |
| 8 | 26,250,000 | 26,400,000 | 351 | 275 | -1.583814699 | |
| 8 | 26,325,000 | 26,475,000 | 352 | 508 | -0.747692502 | |
| 8 | 26,400,000 | 26,550,000 | 353 | 617 | 1.033156782 | |
| 8 | 26,475,000 | 26,625,000 | 354 | 763 | -0.457421567 | |
| 8 | 26,550,000 | 26,700,000 | 355 | 953 | -1.034218592 | SH3GL2 |
| 8 | 26,625,000 | 26,775,000 | 356 | 848 | -0.318963651 | SH3GL2 |
| 8 | 26,700,000 | 26,850,000 | 357 | 767 | 0.329230722 | SH3GL2 |
| 8 | 26,775,000 | 26,925,000 | 358 | 998 | -0.890667807 | SH3GL2 |
| 8 | 26,850,000 | 27,000,000 | 359 | 920 | -1.883744563 | CNTLN,SH3GL2 |
| 8 | 26,925,000 | 27,075,000 | 360 | 425 | -0.672490777 | CNTLN |
| 8 | 27,000,000 | 27,150,000 | 361 | 243 | -0.547360127 | CNTLN |
| 8 | 27,075,000 | 27,225,000 | 362 | 426 | 0.437403583 | CNTLN |
| 8 | 27,150,000 | 27,300,000 | 363 | 631 | 0.702759796 | CNTLN |
| 8 | 27,225,000 | 27,375,000 | 364 | 795 | 0.557268021 | |
| 8 | 27,300,000 | 27,450,000 | 365 | 657 | 0.526044731 | |
| 8 | 27,375,000 | 27,525,000 | 366 | 460 | 0.902683235 | |
| 8 | 27,450,000 | 27,600,000 | 367 | 547 | 0.439741543 | |
| 8 | 27,525,000 | 27,675,000 | 368 | 510 | -0.850926047 | |
| 8 | 27,600,000 | 27,750,000 | 369 | 413 | -0.901234368 | |
| 8 | 27,675,000 | 27,825,000 | 370 | 418 | -0.200883323 | |
| 8 | 27,750,000 | 27,900,000 | 371 | 396 | -0.135811536 | |
| 8 | 27,825,000 | 27,975,000 | 372 | 558 | 0.446009659 | BNC2 |
| 8 | 27,900,000 | 28,050,000 | 373 | 874 | 0.409449158 | BNC2 |
| 8 | 27,975,000 | 28,125,000 | 374 | 1140 | 0.285094379 | BNC2 |
| 8 | 28,050,000 | 28,200,000 | 375 | 1257 | 0.288456411 | |
| 8 | 28,125,000 | 28,275,000 | 376 | 1034 | 0.293085337 | |
| 8 | 28,200,000 | 28,350,000 | 377 | 716 | 0.302409957 | |
| 8 | 28,275,000 | 28,425,000 | 378 | 525 | 0.240825006 | |
| 8 | 28,350,000 | 28,500,000 | 379 | 681 | -0.509883548 | CCDC171 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------|
| 8 | 28,425,000 | 28,575,000 | 380 | 751 | -0.592084057 | CCDC171 |
| 8 | 28,500,000 | 28,650,000 | 381 | 524 | -0.03519779 | CCDC171 |
| 8 | 28,575,000 | 28,725,000 | 382 | 581 | 0.796908563 | CCDC171 |
| 8 | 28,650,000 | 28,800,000 | 383 | 762 | 0.002009112 | CCDC171 |
| 8 | 28,725,000 | 28,875,000 | 384 | 537 | -0.221643927 | CCDC171,PSIP1 |
| 8 | 28,800,000 | 28,950,000 | 385 | 271 | -0.978921386 | CCDC171,PSIP1,SNAPC3 |
| 8 | 28,875,000 | 29,025,000 | 386 | 339 | -0.835528289 | PSIP1,SNAPC3 |
| 8 | 28,950,000 | 29,100,000 | 387 | 527 | -0.105442026 | |
| 8 | 29,025,000 | 29,175,000 | 388 | 876 | 0.703333191 | TTC39B |
| 8 | 29,100,000 | 29,250,000 | 389 | 1358 | 0.847269659 | TTC39B |
| 8 | 29,175,000 | 29,325,000 | 390 | 1185 | 0.651524699 | |
| 8 | 29,250,000 | 29,400,000 | 391 | 806 | 1.213836912 | FREM1 |
| 8 | 29,325,000 | 29,475,000 | 392 | 966 | 1.186851265 | FREM1 |
| 8 | 29,400,000 | 29,550,000 | 393 | 933 | 1.091609193 | CER1,FREM1 |
| 8 | 29,475,000 | 29,625,000 | 394 | 571 | 0.927271878 | CER1,FREM1,ZDHHC21 |
| 8 | 29,550,000 | 29,700,000 | 395 | 539 | 0.658020925 | ZDHHC21 |
| 8 | 29,625,000 | 29,775,000 | 396 | 777 | 0.758886255 | |
| 8 | 29,700,000 | 29,850,000 | 397 | 761 | 0.43639564 | |
| 8 | 29,775,000 | 29,925,000 | 398 | 510 | -0.829433169 | |
| 8 | 29,850,000 | 30,000,000 | 399 | 452 | -1.056449379 | |
| 8 | 29,925,000 | 30,075,000 | 400 | 578 | -0.453720834 | NFIB |
| 8 | 30,000,000 | 30,150,000 | 401 | 656 | -0.217143113 | NFIB |
| 8 | 30,075,000 | 30,225,000 | 402 | 898 | 0.398406702 | NFIB |
| 8 | 30,150,000 | 30,300,000 | 403 | 667 | 0.631708769 | NFIB |
| 8 | 30,225,000 | 30,375,000 | 404 | 356 | 0.258007774 | |
| 8 | 30,300,000 | 30,450,000 | 405 | 488 | -0.085596542 | |
| 8 | 30,375,000 | 30,525,000 | 406 | 590 | -0.25049927 | |
| 8 | 30,450,000 | 30,600,000 | 407 | 720 | -0.21694644 | |
| 8 | 30,525,000 | 30,675,000 | 408 | 727 | 0.252899521 | |
| 8 | 30,600,000 | 30,750,000 | 409 | 974 | 0.872264817 | |
| 8 | 30,675,000 | 30,825,000 | 410 | 1109 | 0.430173612 | |
| 8 | 30,750,000 | 30,900,000 | 411 | 717 | -0.466108946 | |
| 8 | 30,825,000 | 30,975,000 | 412 | 491 | -0.206428329 | |
| 8 | 30,900,000 | 31,050,000 | 413 | 323 | 0.514235255 | |
| 8 | 30,975,000 | 31,125,000 | 414 | 361 | -0.561795772 | MPDZ |
| 8 | 31,050,000 | 31,200,000 | 415 | 649 | -0.413164449 | MPDZ |
| 8 | 31,125,000 | 31,275,000 | 416 | 547 | 0.052705805 | MPDZ |
| 8 | 31,200,000 | 31,350,000 | 417 | 538 | 0.637483255 | MPDZ |
| 8 | 31,275,000 | 31,425,000 | 418 | 961 | 0.649617021 | MPDZ |
| 8 | 31,350,000 | 31,500,000 | 419 | 1014 | 0.308757875 | ENSBTAG00000048272 |
| 8 | 31,425,000 | 31,575,000 | 420 | 902 | 0.081741006 | ENSBTAG00000048272 |
| 8 | 31,500,000 | 31,650,000 | 421 | 890 | 0.346548955 | LURAP1L |
| 8 | 31,575,000 | 31,725,000 | 422 | 564 | 0.583615092 | LURAP1L,TYRP1 |
| 8 | 31,650,000 | 31,800,000 | 423 | 647 | 0.063272134 | TYRP1 |
| 8 | 31,725,000 | 31,875,000 | 424 | 1078 | 0.18352067 | TYRP1 |
| 8 | 31,800,000 | 31,950,000 | 425 | 1498 | 0.664503267 | |
| 8 | 31,875,000 | 32,025,000 | 426 | 1676 | 0.645711756 | |
| 8 | 31,950,000 | 32,100,000 | 427 | 1146 | 0.382761018 | |
| 8 | 32,025,000 | 32,175,000 | 428 | 1000 | 0.652872805 | |
| 8 | 32,100,000 | 32,250,000 | 429 | 1262 | 0.258881699 | |
| 8 | 32,175,000 | 32,325,000 | 430 | 1304 | -0.11986025 | |
| 8 | 32,250,000 | 32,400,000 | 431 | 1193 | 0.10187933 | |
| 8 | 32,325,000 | 32,475,000 | 432 | 1078 | 0.323614643 | |

| | | | | | |
|---|------------|------------|-----|------|--------------|
| 8 | 32,400,000 | 32,550,000 | 433 | 1393 | 0.350086306 |
| 8 | 32,475,000 | 32,625,000 | 434 | 1600 | 0.92140469 |
| 8 | 32,550,000 | 32,700,000 | 435 | 1375 | 0.166463752 |
| 8 | 32,625,000 | 32,775,000 | 436 | 1112 | -1.499718352 |
| 8 | 32,700,000 | 32,850,000 | 437 | 1141 | -1.751507724 |
| 8 | 32,775,000 | 32,925,000 | 438 | 1431 | -1.847011952 |
| 8 | 32,850,000 | 33,000,000 | 439 | 1933 | -1.859566818 |
| 8 | 32,925,000 | 33,075,000 | 440 | 1695 | -1.714959232 |
| 8 | 33,000,000 | 33,150,000 | 441 | 873 | -0.450846772 |
| 8 | 33,075,000 | 33,225,000 | 442 | 993 | -4.376530806 |
| 8 | 33,150,000 | 33,300,000 | 443 | 1102 | -3.538704808 |
| 8 | 33,225,000 | 33,375,000 | 444 | 1128 | 0.114796163 |
| 8 | 33,300,000 | 33,450,000 | 445 | 1233 | 0.12119526 |
| 8 | 33,375,000 | 33,525,000 | 446 | 975 | 0.354794788 |
| 8 | 33,450,000 | 33,600,000 | 447 | 649 | 0.365704513 |
| 8 | 33,525,000 | 33,675,000 | 448 | 599 | 0.38193963 |
| 8 | 33,600,000 | 33,750,000 | 449 | 832 | 0.258993183 |
| 8 | 33,675,000 | 33,825,000 | 450 | 843 | -0.480228506 |
| 8 | 33,750,000 | 33,900,000 | 451 | 746 | -1.583784373 |
| 8 | 33,825,000 | 33,975,000 | 452 | 684 | -0.931137451 |
| 8 | 33,900,000 | 34,050,000 | 453 | 805 | -0.002420579 |
| 8 | 33,975,000 | 34,125,000 | 454 | 695 | 0.223041247 |
| 8 | 34,050,000 | 34,200,000 | 455 | 409 | -0.24748102 |
| 8 | 34,125,000 | 34,275,000 | 456 | 358 | -0.737805117 |
| 8 | 34,200,000 | 34,350,000 | 457 | 289 | -1.272154056 |
| 8 | 34,275,000 | 34,425,000 | 458 | 268 | -1.908711297 |
| 8 | 34,350,000 | 34,500,000 | 459 | 319 | -3.62926359 |
| 8 | 34,425,000 | 34,575,000 | 460 | 719 | -2.398933138 |
| 8 | 34,500,000 | 34,650,000 | 461 | 911 | -1.076267356 |
| 8 | 34,575,000 | 34,725,000 | 462 | 801 | 1.051927409 |
| 8 | 34,650,000 | 34,800,000 | 463 | 590 | 1.19331942 |
| 8 | 34,725,000 | 34,875,000 | 464 | 633 | 0.690218889 |
| 8 | 34,800,000 | 34,950,000 | 465 | 1300 | 0.603731095 |
| 8 | 34,875,000 | 35,025,000 | 466 | 1064 | 0.478956992 |
| 8 | 34,950,000 | 35,100,000 | 467 | 738 | 0.358352034 |
| 8 | 35,025,000 | 35,175,000 | 468 | 864 | 0.209851091 |
| 8 | 35,100,000 | 35,250,000 | 469 | 659 | 0.316720984 |
| 8 | 35,175,000 | 35,325,000 | 470 | 977 | 0.531218396 |
| 8 | 35,250,000 | 35,400,000 | 471 | 1164 | 0.460976956 |
| 8 | 35,325,000 | 35,475,000 | 472 | 951 | 0.66002336 |
| 8 | 35,400,000 | 35,550,000 | 473 | 956 | 0.740407793 |
| 8 | 35,475,000 | 35,625,000 | 474 | 1086 | 0.42322155 |
| 8 | 35,550,000 | 35,700,000 | 475 | 1067 | -0.399488783 |
| 8 | 35,625,000 | 35,775,000 | 476 | 731 | -0.445152686 |
| 8 | 35,700,000 | 35,850,000 | 477 | 584 | 0.404743267 |
| 8 | 35,775,000 | 35,925,000 | 478 | 922 | 0.940036704 |
| 8 | 35,850,000 | 36,000,000 | 479 | 1327 | 1.101520228 |
| 8 | 35,925,000 | 36,075,000 | 480 | 1161 | 1.04150748 |
| 8 | 36,000,000 | 36,150,000 | 481 | 443 | 1.064431788 |
| 8 | 36,075,000 | 36,225,000 | 482 | 267 | -0.934989227 |
| 8 | 36,150,000 | 36,300,000 | 483 | 518 | -1.744529292 |
| 8 | 36,225,000 | 36,375,000 | 484 | 769 | -0.830995641 |
| 8 | 36,300,000 | 36,450,000 | 485 | 1219 | 0.212134026 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 36,375,000 | 36,525,000 | 486 | 1221 | 0.469819172 | |
| 8 | 36,450,000 | 36,600,000 | 487 | 905 | 0.171119151 | PTPRD |
| 8 | 36,525,000 | 36,675,000 | 488 | 757 | 0.337039007 | PTPRD |
| 8 | 36,600,000 | 36,750,000 | 489 | 701 | 1.239266265 | PTPRD |
| 8 | 36,675,000 | 36,825,000 | 490 | 613 | 1.040136138 | PTPRD |
| 8 | 36,750,000 | 36,900,000 | 491 | 565 | -0.389770332 | PTPRD |
| 8 | 36,825,000 | 36,975,000 | 492 | 543 | -0.205475497 | |
| 8 | 36,900,000 | 37,050,000 | 493 | 846 | -0.871877275 | |
| 8 | 36,975,000 | 37,125,000 | 494 | 1045 | -0.603337464 | |
| 8 | 37,050,000 | 37,200,000 | 495 | 913 | 0.272105973 | |
| 8 | 37,125,000 | 37,275,000 | 496 | 674 | 0.62221164 | |
| 8 | 37,200,000 | 37,350,000 | 497 | 393 | 0.814785614 | MGC127919 |
| 8 | 37,275,000 | 37,425,000 | 498 | 339 | 0.570575177 | MGC127919 |
| 8 | 37,350,000 | 37,500,000 | 499 | 455 | 0.904304203 | |
| 8 | 37,425,000 | 37,575,000 | 500 | 538 | 1.08291844 | |
| 8 | 37,500,000 | 37,650,000 | 501 | 677 | 0.638363343 | |
| 8 | 37,575,000 | 37,725,000 | 502 | 1059 | 0.255692173 | ENSBTAG00000038698 |
| 8 | 37,650,000 | 37,800,000 | 503 | 913 | -0.032803095 | ENSBTAG00000038698 |
| 8 | 37,725,000 | 37,875,000 | 504 | 640 | -0.195182586 | |
| 8 | 37,800,000 | 37,950,000 | 505 | 562 | 0.599152753 | |
| 8 | 37,875,000 | 38,025,000 | 506 | 340 | 1.304763558 | ENSBTAG00000043987 |
| 8 | 37,950,000 | 38,100,000 | 507 | 245 | 1.178320233 | ENSBTAG00000043987 |
| 8 | 38,025,000 | 38,175,000 | 508 | 483 | 1.277274751 | ENSBTAG00000043987 |
| 8 | 38,100,000 | 38,250,000 | 509 | 493 | 0.989192546 | ENSBTAG00000043987 |
| 8 | 38,175,000 | 38,325,000 | 510 | 310 | -1.450951224 | ENSBTAG00000043987 |
| 8 | 38,250,000 | 38,400,000 | 511 | 286 | -1.87820264 | |
| 8 | 38,325,000 | 38,475,000 | 512 | 181 | 0.555615971 | GLDC |
| 8 | 38,400,000 | 38,550,000 | 513 | 213 | 0.33136809 | GLDC |
| 8 | 38,475,000 | 38,625,000 | 514 | 335 | 0.418961979 | GLDC,UHRF2 |
| 8 | 38,550,000 | 38,700,000 | 515 | 358 | 0.469674102 | GLDC,TPD52L3,UHRF2 |
| 8 | 38,625,000 | 38,775,000 | 516 | 386 | 0.70858225 | IL33,TPD52L3,UHRF2 |
| 8 | 38,700,000 | 38,850,000 | 517 | 361 | 0.830599063 | IL33 |
| 8 | 38,775,000 | 38,925,000 | 518 | 343 | 0.38416174 | IL33,RANBP6 |
| 8 | 38,850,000 | 39,000,000 | 519 | 425 | 0.427344643 | RANBP6 |
| 8 | 38,925,000 | 39,075,000 | 520 | 482 | 1.056496347 | KIAA2026,MLANA,RANBP6 |
| 8 | 39,000,000 | 39,150,000 | 521 | 548 | 1.165638137 | ERMP1,KIAA2026,MLANA |
| 8 | 39,075,000 | 39,225,000 | 522 | 426 | 1.248208434 | ERMP1,RIC1 |
| 8 | 39,150,000 | 39,300,000 | 523 | 311 | 1.441455848 | ERMP1,RIC1 |
| 8 | 39,225,000 | 39,375,000 | 524 | 386 | 1.459611768 | RIC1 |
| 8 | 39,300,000 | 39,450,000 | 525 | 457 | 1.307887132 | PDCD1LG2,RIC1 |
| 8 | 39,375,000 | 39,525,000 | 526 | 436 | 0.786520147 | PD-L1,PDCD1LG2 |
| 8 | 39,450,000 | 39,600,000 | 527 | 482 | 0.5941741 | C8H9ORF46,PD-L1,PDCD1LG2 |
| 8 | 39,525,000 | 39,675,000 | 528 | 540 | 0.526017949 | C8H9ORF46,INSL6,JAK2 |
| 8 | 39,600,000 | 39,750,000 | 529 | 567 | -0.873316936 | INSL6,JAK2 |
| 8 | 39,675,000 | 39,825,000 | 530 | 732 | -2.234055916 | JAK2 |
| 8 | 39,750,000 | 39,900,000 | 531 | 974 | -0.638339277 | |
| 8 | 39,825,000 | 39,975,000 | 532 | 1149 | 0.313569234 | RCL1 |
| 8 | 39,900,000 | 40,050,000 | 533 | 1031 | -0.253019763 | AK3,RCL1,ENSBTAG00000046486 |
| 8 | 39,975,000 | 40,125,000 | 534 | 746 | -0.959905081 | AK3,CDC37L1,PPAPDC2,RCL1,SPATA6L,ENSBTAG00000046486 |
| 8 | 40,050,000 | 40,200,000 | 535 | 906 | -0.478560215 | AK3,CDC37L1,PPAPDC2,SLC1A1,SPATA6L,ENSBTAG00000046486 |
| 8 | 40,125,000 | 40,275,000 | 536 | 932 | -0.39984144 | SLC1A1,SPATA6L,ENSBTAG00000046687 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 8 | 40,200,000 | 40,350,000 | 537 | 471 | -0.705489461 | SLC1A1,ENSBTAG00000046687 |
| 8 | 40,275,000 | 40,425,000 | 538 | 385 | -1.111981056 | |
| 8 | 40,350,000 | 40,500,000 | 539 | 579 | -2.092819283 | |
| 8 | 40,425,000 | 40,575,000 | 540 | 778 | -0.638560436 | |
| 8 | 40,500,000 | 40,650,000 | 541 | 862 | 0.573579895 | |
| 8 | 40,575,000 | 40,725,000 | 542 | 735 | 0.451769035 | |
| 8 | 40,650,000 | 40,800,000 | 543 | 679 | 0.004251631 | |
| 8 | 40,725,000 | 40,875,000 | 544 | 540 | -0.33139649 | GLIS3 |
| 8 | 40,800,000 | 40,950,000 | 545 | 345 | -0.394168928 | GLIS3 |
| 8 | 40,875,000 | 41,025,000 | 546 | 527 | 0.443737902 | GLIS3 |
| 8 | 40,950,000 | 41,100,000 | 547 | 828 | -0.311705414 | GLIS3 |
| 8 | 41,025,000 | 41,175,000 | 548 | 838 | -0.629434261 | |
| 8 | 41,100,000 | 41,250,000 | 549 | 700 | 0.071728041 | |
| 8 | 41,175,000 | 41,325,000 | 550 | 684 | -0.777814175 | |
| 8 | 41,250,000 | 41,400,000 | 551 | 552 | -0.891634885 | |
| 8 | 41,325,000 | 41,475,000 | 552 | 380 | 0.447337099 | RFX3 |
| 8 | 41,400,000 | 41,550,000 | 553 | 381 | 0.160228226 | RFX3 |
| 8 | 41,475,000 | 41,625,000 | 554 | 575 | 0.543061638 | RFX3 |
| 8 | 41,550,000 | 41,700,000 | 555 | 609 | 0.918900044 | RFX3 |
| 8 | 41,625,000 | 41,775,000 | 556 | 567 | 0.921412525 | |
| 8 | 41,700,000 | 41,850,000 | 557 | 716 | 0.805141887 | |
| 8 | 41,775,000 | 41,925,000 | 558 | 764 | 0.528428008 | |
| 8 | 41,850,000 | 42,000,000 | 559 | 622 | 0.268608587 | KIAA0020 |
| 8 | 41,925,000 | 42,075,000 | 560 | 650 | -0.028364305 | KCNV2,KIAA0020 |
| 8 | 42,000,000 | 42,150,000 | 561 | 919 | 0.331248071 | KCNV2,VLDLR |
| 8 | 42,075,000 | 42,225,000 | 562 | 956 | 0.742378811 | VLDLR |
| 8 | 42,150,000 | 42,300,000 | 563 | 628 | 0.867993091 | |
| 8 | 42,225,000 | 42,375,000 | 564 | 390 | 0.554622788 | |
| 8 | 42,300,000 | 42,450,000 | 565 | 518 | 0.232202301 | |
| 8 | 42,375,000 | 42,525,000 | 566 | 966 | -0.142398959 | |
| 8 | 42,450,000 | 42,600,000 | 567 | 1327 | -0.216627773 | |
| 8 | 42,525,000 | 42,675,000 | 568 | 895 | -0.138663829 | SMARCA2 |
| 8 | 42,600,000 | 42,750,000 | 569 | 416 | -0.051332092 | SMARCA2 |
| 8 | 42,675,000 | 42,825,000 | 570 | 438 | -2.236370154 | SMARCA2 |
| 8 | 42,750,000 | 42,900,000 | 571 | 481 | -3.18567477 | SMARCA2 |
| 8 | 42,825,000 | 42,975,000 | 572 | 701 | 0.653968039 | SMARCA2 |
| 8 | 42,900,000 | 43,050,000 | 573 | 822 | 0.856189907 | |
| 8 | 42,975,000 | 43,125,000 | 574 | 676 | 0.261480239 | |
| 8 | 43,050,000 | 43,200,000 | 575 | 786 | 0.23611442 | |
| 8 | 43,125,000 | 43,275,000 | 576 | 1308 | 0.294113201 | |
| 8 | 43,200,000 | 43,350,000 | 577 | 1552 | 0.328198728 | |
| 8 | 43,275,000 | 43,425,000 | 578 | 1089 | 0.483950434 | |
| 8 | 43,350,000 | 43,500,000 | 579 | 868 | 0.857922865 | |
| 8 | 43,425,000 | 43,575,000 | 580 | 812 | 0.595672052 | |
| 8 | 43,500,000 | 43,650,000 | 581 | 740 | 0.149001828 | |
| 8 | 43,575,000 | 43,725,000 | 582 | 948 | 0.552450852 | |
| 8 | 43,650,000 | 43,800,000 | 583 | 805 | 0.82060095 | DMRT2 |
| 8 | 43,725,000 | 43,875,000 | 584 | 468 | 0.240480253 | DMRT2,DMRT3 |
| 8 | 43,800,000 | 43,950,000 | 585 | 288 | -0.24200861 | DMRT1,DMRT3 |
| 8 | 43,875,000 | 44,025,000 | 586 | 201 | -0.151711436 | DMRT1 |
| 8 | 43,950,000 | 44,100,000 | 587 | 274 | -0.382055782 | DMRT1,KANK1 |
| 8 | 44,025,000 | 44,175,000 | 588 | 409 | 0.179594799 | KANK1 |
| 8 | 44,100,000 | 44,250,000 | 589 | 744 | 0.370898274 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 44,175,000 | 44,325,000 | 590 | 847 | 0.397466747 | DOCK8 |
| 8 | 44,250,000 | 44,400,000 | 591 | 564 | -0.825041009 | DOCK8 |
| 8 | 44,325,000 | 44,475,000 | 592 | 439 | -2.798776964 | DOCK8 |
| 8 | 44,400,000 | 44,550,000 | 593 | 455 | -1.910043325 | DOCK8 |
| 8 | 44,475,000 | 44,625,000 | 594 | 345 | -2.195578501 | DOCK8,ENSBTAG00000000269 |
| 8 | 44,550,000 | 44,700,000 | 595 | 222 | -1.983775525 | PGM5,ENSBTAG00000000269,ENSBTAG00000033122 |
| 8 | 44,625,000 | 44,775,000 | 596 | 227 | -0.880774366 | PGM5,ENSBTAG00000033122 |
| 8 | 44,700,000 | 44,850,000 | 597 | 304 | -0.770784937 | PGM5 |
| 8 | 44,775,000 | 44,925,000 | 598 | 336 | -0.853808867 | PGM5,TMEM252 |
| 8 | 44,850,000 | 45,000,000 | 599 | 441 | -1.939707743 | PGM5,TMEM252 |
| 8 | 44,925,000 | 45,075,000 | 600 | 564 | -1.90563306 | |
| 8 | 45,000,000 | 45,150,000 | 601 | 416 | -0.812959286 | |
| 8 | 45,075,000 | 45,225,000 | 602 | 299 | 0.256186183 | FAM122A,PIP5K1B |
| 8 | 45,150,000 | 45,300,000 | 603 | 338 | 0.519718433 | FAM122A,PIP5K1B |
| 8 | 45,225,000 | 45,375,000 | 604 | 304 | 0.327891955 | PIP5K1B |
| 8 | 45,300,000 | 45,450,000 | 605 | 263 | 0.059337136 | PIP5K1B |
| 8 | 45,375,000 | 45,525,000 | 606 | 483 | -1.543991668 | FXN |
| 8 | 45,450,000 | 45,600,000 | 607 | 978 | -0.42111649 | FXN,ZO2 |
| 8 | 45,525,000 | 45,675,000 | 608 | 1170 | 0.337878718 | FXN,ZO2 |
| 8 | 45,600,000 | 45,750,000 | 609 | 1115 | 0.379734658 | ZO2 |
| 8 | 45,675,000 | 45,825,000 | 610 | 970 | -0.297946287 | FAM189A2,ZO2 |
| 8 | 45,750,000 | 45,900,000 | 611 | 723 | -2.756941652 | APBA1,FAM189A2 |
| 8 | 45,825,000 | 45,975,000 | 612 | 529 | -2.606334359 | APBA1 |
| 8 | 45,900,000 | 46,050,000 | 613 | 562 | 0.219234889 | APBA1 |
| 8 | 45,975,000 | 46,125,000 | 614 | 543 | 0.102664133 | |
| 8 | 46,050,000 | 46,200,000 | 615 | 373 | -0.978913913 | PTAR1 |
| 8 | 46,125,000 | 46,275,000 | 616 | 532 | -1.174871342 | C8H9orf135,PTAR1 |
| 8 | 46,200,000 | 46,350,000 | 617 | 860 | -1.155792716 | C8H9orf135 |
| 8 | 46,275,000 | 46,425,000 | 618 | 816 | -1.078273501 | C8H9orf135 |
| 8 | 46,350,000 | 46,500,000 | 619 | 708 | -0.052567851 | |
| 8 | 46,425,000 | 46,575,000 | 620 | 625 | -0.309402136 | |
| 8 | 46,500,000 | 46,650,000 | 621 | 485 | -2.318375761 | MAMDC2 |
| 8 | 46,575,000 | 46,725,000 | 622 | 463 | -1.565376492 | MAMDC2,SMC5 |
| 8 | 46,650,000 | 46,800,000 | 623 | 426 | 0.843413728 | MAMDC2,SMC5 |
| 8 | 46,725,000 | 46,875,000 | 624 | 626 | 0.296391878 | SMC5 |
| 8 | 46,800,000 | 46,950,000 | 625 | 549 | -0.028663637 | KLF9,SMC5 |
| 8 | 46,875,000 | 47,025,000 | 626 | 343 | 0.172914791 | KLF9,TRPM3 |
| 8 | 46,950,000 | 47,100,000 | 627 | 320 | 0.062924661 | TRPM3 |
| 8 | 47,025,000 | 47,175,000 | 628 | 456 | -1.138950665 | TRPM3 |
| 8 | 47,100,000 | 47,250,000 | 629 | 712 | -0.521714094 | TRPM3 |
| 8 | 47,175,000 | 47,325,000 | 630 | 716 | -0.383775942 | TRPM3 |
| 8 | 47,250,000 | 47,400,000 | 631 | 489 | -1.391772879 | TRPM3 |
| 8 | 47,325,000 | 47,475,000 | 632 | 295 | -1.24379582 | |
| 8 | 47,400,000 | 47,550,000 | 633 | 373 | 0.182808436 | |
| 8 | 47,475,000 | 47,625,000 | 634 | 639 | 0.651395532 | |
| 8 | 47,550,000 | 47,700,000 | 635 | 823 | 0.604992617 | |
| 8 | 47,625,000 | 47,775,000 | 636 | 765 | 0.502055811 | |
| 8 | 47,700,000 | 47,850,000 | 637 | 1224 | 0.583611904 | |
| 8 | 47,775,000 | 47,925,000 | 638 | 1562 | 0.729349439 | |
| 8 | 47,850,000 | 48,000,000 | 639 | 1134 | 0.914288186 | |
| 8 | 47,925,000 | 48,075,000 | 640 | 835 | 1.145098602 | |
| 8 | 48,000,000 | 48,150,000 | 641 | 625 | 1.256622028 | |
| 8 | 48,075,000 | 48,225,000 | 642 | 375 | 1.005890735 | TMEM2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------|
| 8 | 48,150,000 | 48,300,000 | 643 | 607 | 0.528926604 | TMEM2 |
| 8 | 48,225,000 | 48,375,000 | 644 | 808 | -1.018017031 | TMEM2 |
| 8 | 48,300,000 | 48,450,000 | 645 | 480 | -1.430907539 | FAM108B1,TMEM2 |
| 8 | 48,375,000 | 48,525,000 | 646 | 263 | 0.443922318 | C8H9ORF85,FAM108B1 |
| 8 | 48,450,000 | 48,600,000 | 647 | 179 | 0.640494216 | C8H9ORF85,FAM108B1 |
| 8 | 48,525,000 | 48,675,000 | 648 | 111 | 0.270796674 | GDA |
| 8 | 48,600,000 | 48,750,000 | 649 | 166 | -0.032318437 | GDA |
| 8 | 48,675,000 | 48,825,000 | 650 | 354 | 0.040561061 | GDA |
| 8 | 48,750,000 | 48,900,000 | 651 | 399 | -0.232533689 | GDA,ZFAND5 |
| 8 | 48,825,000 | 48,975,000 | 652 | 203 | -1.104949188 | ZFAND5 |
| 8 | 48,900,000 | 49,050,000 | 653 | 202 | -2.462822363 | ZFAND5 |
| 8 | 48,975,000 | 49,125,000 | 654 | 325 | -2.409653411 | |
| 8 | 49,050,000 | 49,200,000 | 655 | 477 | -4.584661553 | |
| 8 | 49,125,000 | 49,275,000 | 656 | 804 | -1.653783963 | TMC1 |
| 8 | 49,200,000 | 49,350,000 | 657 | 816 | 0.183562292 | TMC1 |
| 8 | 49,275,000 | 49,425,000 | 658 | 846 | -0.925483082 | ALDH1A1,TMC1 |
| 8 | 49,350,000 | 49,500,000 | 659 | 858 | -0.476069065 | ALDH1A1,ENSBTAG00000047442 |
| 8 | 49,425,000 | 49,575,000 | 660 | 1082 | 0.477041168 | ENSBTAG00000047442 |
| 8 | 49,500,000 | 49,650,000 | 661 | 1139 | 0.369389119 | ANXA1,ENSBTAG00000047442 |
| 8 | 49,575,000 | 49,725,000 | 662 | 945 | 0.156169804 | ANXA1 |
| 8 | 49,650,000 | 49,800,000 | 663 | 842 | 0.186472099 | |
| 8 | 49,725,000 | 49,875,000 | 664 | 613 | 0.29087664 | |
| 8 | 49,800,000 | 49,950,000 | 665 | 447 | 0.649629668 | |
| 8 | 49,875,000 | 50,025,000 | 666 | 361 | -1.134136469 | |
| 8 | 49,950,000 | 50,100,000 | 667 | 521 | -1.108403168 | |
| 8 | 50,025,000 | 50,175,000 | 668 | 689 | 0.648957103 | |
| 8 | 50,100,000 | 50,250,000 | 669 | 766 | 0.9930994 | |
| 8 | 50,175,000 | 50,325,000 | 670 | 774 | -0.045879446 | |
| 8 | 50,250,000 | 50,400,000 | 671 | 885 | 0.052527614 | |
| 8 | 50,325,000 | 50,475,000 | 672 | 970 | 0.394780574 | |
| 8 | 50,400,000 | 50,550,000 | 673 | 772 | -0.211902604 | |
| 8 | 50,475,000 | 50,625,000 | 674 | 565 | 0.330320226 | |
| 8 | 50,550,000 | 50,700,000 | 675 | 839 | -1.452479649 | |
| 8 | 50,625,000 | 50,775,000 | 676 | 1089 | -1.699003705 | |
| 8 | 50,700,000 | 50,850,000 | 677 | 1072 | -0.811386709 | |
| 8 | 50,775,000 | 50,925,000 | 678 | 805 | 0.121453717 | RORB |
| 8 | 50,850,000 | 51,000,000 | 679 | 499 | 0.600776301 | RORB |
| 8 | 50,925,000 | 51,075,000 | 680 | 537 | -0.466904679 | RORB |
| 8 | 51,000,000 | 51,150,000 | 681 | 827 | -1.451811608 | RORB,TRPM6 |
| 8 | 51,075,000 | 51,225,000 | 682 | 992 | -2.179120737 | RORB,TRPM6 |
| 8 | 51,150,000 | 51,300,000 | 683 | 643 | -2.164296097 | TRPM6 |
| 8 | 51,225,000 | 51,375,000 | 684 | 329 | -0.207459167 | C9orf40,C9orf41 |
| 8 | 51,300,000 | 51,450,000 | 685 | 309 | 0.033941566 | C9orf40,C9orf41,NMRK1,OSTF1 |
| 8 | 51,375,000 | 51,525,000 | 686 | 390 | 0.876074508 | C9orf41,NMRK1,OSTF1 |
| 8 | 51,450,000 | 51,600,000 | 687 | 708 | 0.861902343 | OSTF1 |
| 8 | 51,525,000 | 51,675,000 | 688 | 1026 | 0.818086484 | |
| 8 | 51,600,000 | 51,750,000 | 689 | 990 | 0.480389291 | |
| 8 | 51,675,000 | 51,825,000 | 690 | 629 | -0.651816576 | |
| 8 | 51,750,000 | 51,900,000 | 691 | 775 | -0.670450808 | |
| 8 | 51,825,000 | 51,975,000 | 692 | 1054 | -0.722565074 | |
| 8 | 51,900,000 | 52,050,000 | 693 | 702 | -0.715423456 | |
| 8 | 51,975,000 | 52,125,000 | 694 | 428 | -0.60684763 | |
| 8 | 52,050,000 | 52,200,000 | 695 | 466 | -1.266273143 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 52,125,000 | 52,275,000 | 696 | 577 | -1.677414592 | |
| 8 | 52,200,000 | 52,350,000 | 697 | 617 | -0.472300662 | PCSK5 |
| 8 | 52,275,000 | 52,425,000 | 698 | 454 | 1.050671674 | PCSK5 |
| 8 | 52,350,000 | 52,500,000 | 699 | 552 | 0.517140075 | PCSK5 |
| 8 | 52,425,000 | 52,575,000 | 700 | 626 | 0.42644379 | PCSK5 |
| 8 | 52,500,000 | 52,650,000 | 701 | 375 | 0.631692023 | PCSK5 |
| 8 | 52,575,000 | 52,725,000 | 702 | 444 | 0.433381069 | PCSK5 |
| 8 | 52,650,000 | 52,800,000 | 703 | 564 | 0.688366407 | PCSK5,RFK |
| 8 | 52,725,000 | 52,875,000 | 704 | 508 | 0.686701193 | GCNT1,RFK |
| 8 | 52,800,000 | 52,950,000 | 705 | 545 | 0.297160496 | GCNT1 |
| 8 | 52,875,000 | 53,025,000 | 706 | 787 | 0.233950756 | PRUNE2 |
| 8 | 52,950,000 | 53,100,000 | 707 | 1056 | 0.65173909 | PRUNE2 |
| 8 | 53,025,000 | 53,175,000 | 708 | 976 | 0.226186349 | PRUNE2 |
| 8 | 53,100,000 | 53,250,000 | 709 | 595 | -0.898140979 | PRUNE2 |
| 8 | 53,175,000 | 53,325,000 | 710 | 333 | -0.475285685 | PRUNE2 |
| 8 | 53,250,000 | 53,400,000 | 711 | 488 | -0.100352051 | FOXB2 |
| 8 | 53,325,000 | 53,475,000 | 712 | 752 | 0.549077843 | FOXB2 |
| 8 | 53,400,000 | 53,550,000 | 713 | 821 | 0.754050607 | |
| 8 | 53,475,000 | 53,625,000 | 714 | 613 | 0.570796151 | ENSBTAG00000047788 |
| 8 | 53,550,000 | 53,700,000 | 715 | 368 | 0.827943124 | GNA14,ENSBTAG00000047788 |
| 8 | 53,625,000 | 53,775,000 | 716 | 331 | 0.785557544 | GNA14,ENSBTAG00000017734,ENSBTAG00000047788 |
| 8 | 53,700,000 | 53,850,000 | 717 | 454 | 0.304233075 | GNA14,ENSBTAG00000017734 |
| 8 | 53,775,000 | 53,925,000 | 718 | 510 | 0.159761723 | GNA14,ENSBTAG00000017734 |
| 8 | 53,850,000 | 54,000,000 | 719 | 543 | 0.40704967 | GNA14,GNAQ |
| 8 | 53,925,000 | 54,075,000 | 720 | 764 | 0.535104202 | GNA14,GNAQ |
| 8 | 54,000,000 | 54,150,000 | 721 | 665 | 0.249613318 | GNAQ |
| 8 | 54,075,000 | 54,225,000 | 722 | 434 | -0.846271873 | GNAQ |
| 8 | 54,150,000 | 54,300,000 | 723 | 444 | -2.147657656 | GNAQ |
| 8 | 54,225,000 | 54,375,000 | 724 | 301 | -2.23817542 | GNAQ |
| 8 | 54,300,000 | 54,450,000 | 725 | 108 | -1.986285408 | CEP78 |
| 8 | 54,375,000 | 54,525,000 | 726 | 213 | -2.993613366 | CEP78,PSAT1 |
| 8 | 54,450,000 | 54,600,000 | 727 | 322 | -2.939939972 | CEP78,PSAT1 |
| 8 | 54,525,000 | 54,675,000 | 728 | 466 | -0.282632842 | PSAT1 |
| 8 | 54,600,000 | 54,750,000 | 729 | 411 | 0.85850847 | |
| 8 | 54,675,000 | 54,825,000 | 730 | 405 | -1.496028807 | |
| 8 | 54,750,000 | 54,900,000 | 731 | 482 | -2.235000309 | |
| 8 | 54,825,000 | 54,975,000 | 732 | 501 | -1.717668113 | RAN |
| 8 | 54,900,000 | 55,050,000 | 733 | 798 | -0.434934699 | RAN |
| 8 | 54,975,000 | 55,125,000 | 734 | 1082 | -1.008976942 | |
| 8 | 55,050,000 | 55,200,000 | 735 | 1080 | -1.758743674 | |
| 8 | 55,125,000 | 55,275,000 | 736 | 951 | -1.034290928 | |
| 8 | 55,200,000 | 55,350,000 | 737 | 750 | -0.627025953 | |
| 8 | 55,275,000 | 55,425,000 | 738 | 476 | 0.223193247 | |
| 8 | 55,350,000 | 55,500,000 | 739 | 466 | 1.172934559 | |
| 8 | 55,425,000 | 55,575,000 | 740 | 554 | 1.259875658 | |
| 8 | 55,500,000 | 55,650,000 | 741 | 554 | 0.964374514 | |
| 8 | 55,575,000 | 55,725,000 | 742 | 431 | 0.640703775 | |
| 8 | 55,650,000 | 55,800,000 | 743 | 377 | -0.013984946 | |
| 8 | 55,725,000 | 55,875,000 | 744 | 497 | -1.377423697 | TLE4 |
| 8 | 55,800,000 | 55,950,000 | 745 | 656 | -2.193142799 | TLE4 |
| 8 | 55,875,000 | 56,025,000 | 746 | 597 | -0.850471069 | TLE4 |
| 8 | 55,950,000 | 56,100,000 | 747 | 460 | 0.166421448 | TLE4 |
| 8 | 56,025,000 | 56,175,000 | 748 | 543 | -1.012960209 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 56,100,000 | 56,250,000 | 749 | 468 | -0.600755657 | |
| 8 | 56,175,000 | 56,325,000 | 750 | 423 | -0.888094249 | |
| 8 | 56,250,000 | 56,400,000 | 751 | 420 | -0.931488727 | |
| 8 | 56,325,000 | 56,475,000 | 752 | 248 | 0.150574069 | |
| 8 | 56,400,000 | 56,550,000 | 753 | 439 | -0.611747006 | ENSBTAG00000046462 |
| 8 | 56,475,000 | 56,625,000 | 754 | 582 | -0.067087859 | ENSBTAG00000046462 |
| 8 | 56,550,000 | 56,700,000 | 755 | 608 | 0.442143985 | ENSBTAG00000046462 |
| 8 | 56,625,000 | 56,775,000 | 756 | 429 | 0.366618927 | |
| 8 | 56,700,000 | 56,850,000 | 757 | 59 | 0.687599821 | |
| 8 | 56,775,000 | 56,925,000 | 758 | 101 | -0.844752992 | |
| 8 | 56,850,000 | 57,000,000 | 759 | 270 | -0.281490464 | |
| 8 | 56,925,000 | 57,075,000 | 760 | 461 | -0.15084759 | |
| 8 | 57,000,000 | 57,150,000 | 761 | 963 | 0.846791037 | |
| 8 | 57,075,000 | 57,225,000 | 762 | 1079 | 0.898755657 | |
| 8 | 57,150,000 | 57,300,000 | 763 | 671 | 0.334322566 | |
| 8 | 57,225,000 | 57,375,000 | 764 | 468 | -0.029991459 | |
| 8 | 57,300,000 | 57,450,000 | 765 | 782 | 0.535517257 | |
| 8 | 57,375,000 | 57,525,000 | 766 | 1063 | 0.718427302 | |
| 8 | 57,450,000 | 57,600,000 | 767 | 827 | 0.442414148 | |
| 8 | 57,525,000 | 57,675,000 | 768 | 600 | 0.924258229 | |
| 8 | 57,600,000 | 57,750,000 | 769 | 644 | 0.895541016 | |
| 8 | 57,675,000 | 57,825,000 | 770 | 643 | 0.318260363 | |
| 8 | 57,750,000 | 57,900,000 | 771 | 643 | -0.045764564 | |
| 8 | 57,825,000 | 57,975,000 | 772 | 621 | -1.364422832 | TLE1 |
| 8 | 57,900,000 | 58,050,000 | 773 | 375 | -4.803806114 | TLE1 |
| 8 | 57,975,000 | 58,125,000 | 774 | 475 | -0.831595435 | TLE1 |
| 8 | 58,050,000 | 58,200,000 | 775 | 757 | 0.990772838 | |
| 8 | 58,125,000 | 58,275,000 | 776 | 778 | 0.635766371 | SPATA31D1,ENSBTAG00000046782 |
| 8 | 58,200,000 | 58,350,000 | 777 | 919 | 0.714281872 | SPATA31D1,ENSBTAG00000046782 |
| 8 | 58,275,000 | 58,425,000 | 778 | 854 | 0.973191446 | |
| 8 | 58,350,000 | 58,500,000 | 779 | 665 | -0.319256775 | |
| 8 | 58,425,000 | 58,575,000 | 780 | 702 | -1.097790447 | |
| 8 | 58,500,000 | 58,650,000 | 781 | 612 | -1.573802393 | FKBP8 |
| 8 | 58,575,000 | 58,725,000 | 782 | 537 | -1.850257024 | FKBP8 |
| 8 | 58,650,000 | 58,800,000 | 783 | 509 | -2.047852357 | |
| 8 | 58,725,000 | 58,875,000 | 784 | 435 | -1.414727443 | |
| 8 | 58,800,000 | 58,950,000 | 785 | 679 | 0.774602265 | |
| 8 | 58,875,000 | 59,025,000 | 786 | 697 | 0.979445711 | |
| 8 | 58,950,000 | 59,100,000 | 787 | 493 | -0.215341953 | |
| 8 | 59,025,000 | 59,175,000 | 788 | 472 | -0.623973878 | |
| 8 | 59,100,000 | 59,250,000 | 789 | 536 | -0.326536264 | |
| 8 | 59,175,000 | 59,325,000 | 790 | 430 | -0.181784113 | |
| 8 | 59,250,000 | 59,400,000 | 791 | 278 | -0.795739734 | |
| 8 | 59,325,000 | 59,475,000 | 792 | 411 | -0.398678132 | |
| 8 | 59,400,000 | 59,550,000 | 793 | 335 | -0.165635023 | ENSBTAG00000038982 |
| 8 | 59,475,000 | 59,625,000 | 794 | 466 | -0.016794507 | ENSBTAG00000017338,ENSBTAG00000038982 |
| 8 | 59,550,000 | 59,700,000 | 795 | 508 | 0.329805168 | DNAJB5,KIAA1045,ENSBTAG00000017338 |
| 8 | 59,625,000 | 59,775,000 | 796 | 308 | 0.606075504 | DNAJB5,FAM214B,KIAA1045,MGC159566,PIGO,STOML2,VCP |
| 8 | 59,700,000 | 59,850,000 | 797 | 584 | 0.844684193 | FAM214B,MGC159566,PIGO,STOML2,UNC13B,VCP |
| 8 | 59,775,000 | 59,925,000 | 798 | 820 | 0.963887276 | FAM214B,UNC13B |
| 8 | 59,850,000 | 60,000,000 | 799 | 564 | 0.792217913 | UNC13B |
| 8 | 59,925,000 | 60,075,000 | 800 | 450 | -1.446139386 | UNC13B,ENSBTAG00000011402 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 60,000,000 | 60,150,000 | 801 | 425 | -2.012719165 | RUSC2,UNC13B,ENSBTAG00000011402 |
| 8 | 60,075,000 | 60,225,000 | 802 | 288 | -0.187435643 | CD72,FAM166B,RUSC2,TESK1,ENSBTAG00000011402 |
| 8 | 60,150,000 | 60,300,000 | 803 | 317 | 0.963547825 | ARHGEF39,CA9,CCDC107,CD72,FAM166B,RUSC2,SIT1,TESK1,TLN1,TPM2 |
| 8 | 60,225,000 | 60,375,000 | 804 | 421 | 0.619464874 | ARHGEF39,CA9,CCDC107,CREB3,GBA2,MSMP,NPR2,RGP1,SIT1,TLN1,TPM2 |
| 8 | 60,300,000 | 60,450,000 | 805 | 312 | 0.073229549 | CREB3,FAM221B,GBA2,HINT2,MSMP,NPR2,RGP1,SPAG8,TLN1,TMEM8B,ENSBTAG00000047598 |
| 8 | 60,375,000 | 60,525,000 | 806 | 485 | 0.34721892 | FAM221B,HINT2,NPR2,SPAG8,TMEM8B,ENSBTAG00000026123,ENSBTAG00000045900,ENSBTAG00000047237,ENSBTAG00000047598 |
| 8 | 60,450,000 | 60,600,000 | 807 | 859 | 0.322378577 | ENSBTAG00000026123,ENSBTAG00000032668,ENSBTAG00000032669,ENSBTAG00000045900,ENSBTAG00000045958,ENSBTAG00000047237 |
| 8 | 60,525,000 | 60,675,000 | 808 | 646 | 0.300966558 | OR13C7P,ENSBTAG00000032668,ENSBTAG00000032669,ENSBTAG00000032670,ENSBTAG00000038308,ENSBTAG00000039443,ENSBTAG00000045958,ENSBTAG00000047099 |
| 8 | 60,600,000 | 60,750,000 | 809 | 397 | 0.236231247 | OR13C7P,RECK,ENSBTAG00000032670,ENSBTAG00000038086,ENSBTAG00000038308,ENSBTAG00000039443,ENSBTAG00000047099 |
| 8 | 60,675,000 | 60,825,000 | 810 | 843 | -0.009998412 | CCIN,GLIPR2,RECK,ENSBTAG00000038086 |
| 8 | 60,750,000 | 60,900,000 | 811 | 955 | -0.07433274 | CCIN,CLTA,GLIPR2,GNE,RECK |
| 8 | 60,825,000 | 60,975,000 | 812 | 494 | -0.545976674 | CLTA,GNE,RNF38 |
| 8 | 60,900,000 | 61,050,000 | 813 | 235 | -1.023427793 | GNE,RNF38 |
| 8 | 60,975,000 | 61,125,000 | 814 | 169 | -0.428565065 | RNF38 |
| 8 | 61,050,000 | 61,200,000 | 815 | 261 | -0.492982855 | MELK |
| 8 | 61,125,000 | 61,275,000 | 816 | 398 | -2.139545274 | MELK |
| 8 | 61,200,000 | 61,350,000 | 817 | 577 | -1.077885707 | MELK |
| 8 | 61,275,000 | 61,425,000 | 818 | 509 | -0.087138308 | PAX5 |
| 8 | 61,350,000 | 61,500,000 | 819 | 416 | -0.520303309 | PAX5 |
| 8 | 61,425,000 | 61,575,000 | 820 | 375 | -0.274853201 | PAX5 |
| 8 | 61,500,000 | 61,650,000 | 821 | 210 | 0.106468976 | PAX5,ZCCHC7 |
| 8 | 61,575,000 | 61,725,000 | 822 | 204 | -0.050141601 | ZCCHC7 |
| 8 | 61,650,000 | 61,800,000 | 823 | 270 | 0.197181183 | ZCCHC7 |
| 8 | 61,725,000 | 61,875,000 | 824 | 279 | 0.040341674 | ZCCHC7 |
| 8 | 61,800,000 | 61,950,000 | 825 | 278 | 0.734285602 | GRHPR,ZCCHC7 |
| 8 | 61,875,000 | 62,025,000 | 826 | 310 | 1.236459387 | FBXO10,GRHPR,POLR1E,ZBTB5,ZCCHC7 |
| 8 | 61,950,000 | 62,100,000 | 827 | 557 | 1.168792689 | FBXO10,GRHPR,POLR1E,TOMM5,ZBTB5 |
| 8 | 62,025,000 | 62,175,000 | 828 | 588 | 1.08287767 | FBXO10,TOMM5 |
| 8 | 62,100,000 | 62,250,000 | 829 | 590 | 0.904206342 | |
| 8 | 62,175,000 | 62,325,000 | 830 | 663 | 0.953415714 | FRMPD1 |
| 8 | 62,250,000 | 62,400,000 | 831 | 414 | 1.115778075 | DCAF10,EXOSC3,FRMPD1,TRMT10B |
| 8 | 62,325,000 | 62,475,000 | 832 | 298 | 0.652276838 | DCAF10,EXOSC3,MCART1,SHB,TRMT10B |
| 8 | 62,400,000 | 62,550,000 | 833 | 482 | 0.359619776 | DCAF10,MCART1,SHB |
| 8 | 62,475,000 | 62,625,000 | 834 | 544 | 0.744729067 | SHB |
| 8 | 62,550,000 | 62,700,000 | 835 | 588 | 0.638467287 | SHB |
| 8 | 62,625,000 | 62,775,000 | 836 | 700 | 0.282647329 | |
| 8 | 62,700,000 | 62,850,000 | 837 | 1232 | 0.8781032 | |
| 8 | 62,775,000 | 62,925,000 | 838 | 1451 | 0.964904177 | ALDH1B1,IGFBPL1 |
| 8 | 62,850,000 | 63,000,000 | 839 | 1243 | 0.379348096 | ALDH1B1,CCDC180,IGFBPL1,ENSBTAG00000040034 |
| 8 | 62,925,000 | 63,075,000 | 840 | 1187 | 0.3143527 | CCDC180,TDRD7,ENSBTAG00000040034 |
| 8 | 63,000,000 | 63,150,000 | 841 | 843 | 0.710708875 | CCDC180,TDRD7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 63,075,000 | 63,225,000 | 842 | 924 | 0.689990472 | TDRD7,TMOD1 |
| 8 | 63,150,000 | 63,300,000 | 843 | 1189 | 0.961243921 | NCBP1,TDRD7,TMOD1,TSTD2 |
| 8 | 63,225,000 | 63,375,000 | 844 | 1093 | 0.928229746 | NCBP1,TMOD1,TSTD2,XPA |
| 8 | 63,300,000 | 63,450,000 | 845 | 1136 | 0.920446246 | NCBP1,XPA |
| 8 | 63,375,000 | 63,525,000 | 846 | 964 | 1.052735595 | FOX1 |
| 8 | 63,450,000 | 63,600,000 | 847 | 675 | 0.608561478 | C8H9ORF156,FOX1,HEMGN |
| 8 | 63,525,000 | 63,675,000 | 848 | 643 | 0.418833109 | ANP32B,C8H9ORF156,HEMGN,NANS |
| 8 | 63,600,000 | 63,750,000 | 849 | 453 | 0.742994606 | ANP32B,CORO2A,NANS,TRIM14 |
| 8 | 63,675,000 | 63,825,000 | 850 | 360 | 0.727710644 | CORO2A,TBC1D2,TRIM14 |
| 8 | 63,750,000 | 63,900,000 | 851 | 499 | 0.188221989 | CORO2A,GABBR2,TBC1D2 |
| 8 | 63,825,000 | 63,975,000 | 852 | 669 | 0.126783963 | GABBR2 |
| 8 | 63,900,000 | 64,050,000 | 853 | 567 | 0.350452547 | GABBR2 |
| 8 | 63,975,000 | 64,125,000 | 854 | 617 | -0.707167993 | GABBR2 |
| 8 | 64,050,000 | 64,200,000 | 855 | 734 | -0.516315112 | GABBR2 |
| 8 | 64,125,000 | 64,275,000 | 856 | 760 | 0.548634246 | ANKS6 |
| 8 | 64,200,000 | 64,350,000 | 857 | 775 | 0.514102084 | ANKS6,GALNT12 |
| 8 | 64,275,000 | 64,425,000 | 858 | 735 | 0.323181247 | ANKS6,GALNT12 |
| 8 | 64,350,000 | 64,500,000 | 859 | 811 | 0.241219855 | COL15A1 |
| 8 | 64,425,000 | 64,575,000 | 860 | 736 | 0.419732061 | COL15A1,TGFBR1 |
| 8 | 64,500,000 | 64,650,000 | 861 | 458 | 0.305875768 | COL15A1,TGFBR1,ENSBTAG00000047836 |
| 8 | 64,575,000 | 64,725,000 | 862 | 317 | -0.532128551 | ALG2,SEC61B,TGFBR1,ENSBTAG00000047836 |
| 8 | 64,650,000 | 64,800,000 | 863 | 410 | 0.094709211 | ALG2,SEC61B |
| 8 | 64,725,000 | 64,875,000 | 864 | 459 | 0.159366105 | SEC61B |
| 8 | 64,800,000 | 64,950,000 | 865 | 388 | 0.495756498 | |
| 8 | 64,875,000 | 65,025,000 | 866 | 447 | 0.526254711 | ENSBTAG00000019143 |
| 8 | 64,950,000 | 65,100,000 | 867 | 575 | 1.033046385 | ENSBTAG00000019143 |
| 8 | 65,025,000 | 65,175,000 | 868 | 459 | 1.338865833 | |
| 8 | 65,100,000 | 65,250,000 | 869 | 326 | 1.202905654 | |
| 8 | 65,175,000 | 65,325,000 | 870 | 332 | 1.254538656 | |
| 8 | 65,250,000 | 65,400,000 | 871 | 386 | 0.588943147 | NR4A3 |
| 8 | 65,325,000 | 65,475,000 | 872 | 545 | 0.603936823 | NR4A3,STX17 |
| 8 | 65,400,000 | 65,550,000 | 873 | 520 | 1.042568854 | ERP44,STX17 |
| 8 | 65,475,000 | 65,625,000 | 874 | 418 | 0.929699483 | ERP44,INVS,STX17 |
| 8 | 65,550,000 | 65,700,000 | 875 | 444 | -0.000635147 | ERP44,INVS |
| 8 | 65,625,000 | 65,775,000 | 876 | 538 | -1.114208962 | INVS,TEX10 |
| 8 | 65,700,000 | 65,850,000 | 877 | 761 | -0.582523566 | INVS,TEX10,ENSBTAG00000035708 |
| 8 | 65,775,000 | 65,925,000 | 878 | 1141 | 0.395182063 | TEX10,ENSBTAG00000035707,ENSBTAG00000035708 |
| 8 | 65,850,000 | 66,000,000 | 879 | 1441 | 0.498476619 | ENSBTAG00000018095,ENSBTAG00000035707,ENSBTAG00000035708 |
| 8 | 65,925,000 | 66,075,000 | 880 | 1353 | -0.326827987 | ENSBTAG00000018095,ENSBTAG00000035709 |
| 8 | 66,000,000 | 66,150,000 | 881 | 1142 | -1.03196111 | ENSBTAG00000035709,ENSBTAG00000037971 |
| 8 | 66,075,000 | 66,225,000 | 882 | 1123 | 0.021390956 | ENSBTAG00000037971,ENSBTAG00000047647 |
| 8 | 66,150,000 | 66,300,000 | 883 | 936 | 0.118709042 | ENSBTAG00000047647 |
| 8 | 66,225,000 | 66,375,000 | 884 | 1001 | 0.595432345 | |
| 8 | 66,300,000 | 66,450,000 | 885 | 1007 | 0.322934376 | ENSBTAG00000006446 |
| 8 | 66,375,000 | 66,525,000 | 886 | 970 | 0.566218866 | ENSBTAG00000006446 |
| 8 | 66,450,000 | 66,600,000 | 887 | 1220 | 1.042446741 | ENSBTAG00000006446 |
| 8 | 66,525,000 | 66,675,000 | 888 | 1085 | 1.019921586 | ENSBTAG00000006446 |
| 8 | 66,600,000 | 66,750,000 | 889 | 1058 | 0.70976493 | ENSBTAG00000006446 |
| 8 | 66,675,000 | 66,825,000 | 890 | 963 | -0.216290505 | |
| 8 | 66,750,000 | 66,900,000 | 891 | 913 | -0.563623225 | |
| 8 | 66,825,000 | 66,975,000 | 892 | 1094 | 0.415153365 | |
| 8 | 66,900,000 | 67,050,000 | 893 | 810 | 0.684456183 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 66,975,000 | 67,125,000 | 894 | 540 | 0.636848183 | |
| 8 | 67,050,000 | 67,200,000 | 895 | 1312 | 1.163780845 | |
| 8 | 67,125,000 | 67,275,000 | 896 | 1400 | 1.385989605 | ENSBTAG00000005966 |
| 8 | 67,200,000 | 67,350,000 | 897 | 816 | 1.354445338 | ENSBTAG00000005966 |
| 8 | 67,275,000 | 67,425,000 | 898 | 962 | 1.138799201 | |
| 8 | 67,350,000 | 67,500,000 | 899 | 1112 | 0.716317562 | LPL |
| 8 | 67,425,000 | 67,575,000 | 900 | 1204 | 0.5644292 | LPL |
| 8 | 67,500,000 | 67,650,000 | 901 | 969 | 0.684565178 | LPL |
| 8 | 67,575,000 | 67,725,000 | 902 | 803 | 1.056320553 | SLC18A1 |
| 8 | 67,650,000 | 67,800,000 | 903 | 1017 | 0.958120164 | ATP6V1B2,SLC18A1 |
| 8 | 67,725,000 | 67,875,000 | 904 | 1117 | 0.033627181 | ATP6V1B2,LZTS1,SLC18A1 |
| 8 | 67,800,000 | 67,950,000 | 905 | 774 | -0.130732357 | ATP6V1B2,LZTS1 |
| 8 | 67,875,000 | 68,025,000 | 906 | 757 | 1.115074172 | |
| 8 | 67,950,000 | 68,100,000 | 907 | 939 | 0.729706686 | |
| 8 | 68,025,000 | 68,175,000 | 908 | 646 | 0.407279889 | |
| 8 | 68,100,000 | 68,250,000 | 909 | 765 | 0.012184629 | |
| 8 | 68,175,000 | 68,325,000 | 910 | 975 | -0.734963701 | |
| 8 | 68,250,000 | 68,400,000 | 911 | 672 | -1.289700326 | |
| 8 | 68,325,000 | 68,475,000 | 912 | 446 | 0.060994075 | |
| 8 | 68,400,000 | 68,550,000 | 913 | 582 | 1.157308293 | |
| 8 | 68,475,000 | 68,625,000 | 914 | 693 | 1.001097093 | |
| 8 | 68,550,000 | 68,700,000 | 915 | 1029 | 0.572489483 | |
| 8 | 68,625,000 | 68,775,000 | 916 | 840 | 0.563861101 | |
| 8 | 68,700,000 | 68,850,000 | 917 | 528 | -0.368429888 | |
| 8 | 68,775,000 | 68,925,000 | 918 | 808 | -1.664866874 | |
| 8 | 68,850,000 | 69,000,000 | 919 | 1027 | -0.299815727 | |
| 8 | 68,925,000 | 69,075,000 | 920 | 885 | 0.596640227 | |
| 8 | 69,000,000 | 69,150,000 | 921 | 635 | 0.570896746 | |
| 8 | 69,075,000 | 69,225,000 | 922 | 905 | -0.912772794 | |
| 8 | 69,150,000 | 69,300,000 | 923 | 1039 | -1.062167113 | |
| 8 | 69,225,000 | 69,375,000 | 924 | 1149 | 0.297956856 | |
| 8 | 69,300,000 | 69,450,000 | 925 | 1264 | 0.779835933 | |
| 8 | 69,375,000 | 69,525,000 | 926 | 923 | 0.383376697 | GFRA2 |
| 8 | 69,450,000 | 69,600,000 | 927 | 571 | -0.629436289 | GFRA2 |
| 8 | 69,525,000 | 69,675,000 | 928 | 480 | -0.09972034 | GFRA2 |
| 8 | 69,600,000 | 69,750,000 | 929 | 377 | 0.650891071 | DOK2,GFRA2,XPO7 |
| 8 | 69,675,000 | 69,825,000 | 930 | 228 | 0.165651736 | DOK2,XPO7 |
| 8 | 69,750,000 | 69,900,000 | 931 | 248 | 0.132620425 | DMTN,FGF17,NPM2,XPO7 |
| 8 | 69,825,000 | 69,975,000 | 932 | 280 | -0.204784013 | DMTN,FAM160B2,FGF17,HR,LGI3,NPM2,NUDT18,REEP4,XPO7 |
| 8 | 69,900,000 | 70,050,000 | 933 | 227 | -0.889396908 | BMP1,FAM160B2,HR,LGI3,NUDT18,PHYHIP,REEP4,SFTPC |
| 8 | 69,975,000 | 70,125,000 | 934 | 322 | -1.106611382 | BMP1,PHYHIP,PIWIL2,POLR3D,SFTPC |
| 8 | 70,050,000 | 70,200,000 | 935 | 410 | -0.55744063 | PIWIL2,POLR3D,SLC39A14 |
| 8 | 70,125,000 | 70,275,000 | 936 | 324 | -0.669710208 | PIWIL2,PPP3CC,SLC39A14 |
| 8 | 70,200,000 | 70,350,000 | 937 | 260 | -0.589909181 | PPP3CC,SLC39A14 |
| 8 | 70,275,000 | 70,425,000 | 938 | 415 | 0.70153604 | CCAR2,PDLIM2,PPP3CC,SORBS3,ENSBTAG00000005466 |
| 8 | 70,350,000 | 70,500,000 | 939 | 484 | 0.704523202 | BIN3,CCAR2,PDLIM2,SORBS3,ENSBTAG00000005466 |
| 8 | 70,425,000 | 70,575,000 | 940 | 369 | 0.204202974 | BIN3,CCAR2,EGR3,PEBP4 |
| 8 | 70,500,000 | 70,650,000 | 941 | 286 | -1.270436397 | EGR3,PEBP4 |
| 8 | 70,575,000 | 70,725,000 | 942 | 434 | -0.830290579 | PEBP4 |
| 8 | 70,650,000 | 70,800,000 | 943 | 550 | -0.04338025 | PEBP4 |
| 8 | 70,725,000 | 70,875,000 | 944 | 583 | 0.112174974 | PEBP4,RHOBTB2,ENSBTAG000000035958 |
| 8 | 70,800,000 | 70,950,000 | 945 | 792 | -0.17363997 | RHOBTB2,TNFRSF10D,ENSBTAG000000035958 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 70,875,000 | 71,025,000 | 946 | 894 | -0.319033805 | RHOBTB2,TNFRSF10D |
| 8 | 70,950,000 | 71,100,000 | 947 | 586 | -0.201854418 | |
| 8 | 71,025,000 | 71,175,000 | 948 | 281 | 0.239937068 | ENSBTAG00000048226 |
| 8 | 71,100,000 | 71,250,000 | 949 | 678 | 0.19432792 | CHMP7,ENSBTAG00000046431,ENSBTAG00000048226 |
| 8 | 71,175,000 | 71,325,000 | 950 | 1049 | -0.477253232 | CHMP7,LOXL2,R3HCC1,ENSBTAG00000046431,ENSBTAGO000048226 |
| 8 | 71,250,000 | 71,400,000 | 951 | 852 | -1.680483049 | CHMP7,LOXL2,R3HCC1 |
| 8 | 71,325,000 | 71,475,000 | 952 | 708 | -0.698871857 | ENTPD4,LOXL2 |
| 8 | 71,400,000 | 71,550,000 | 953 | 754 | 0.227356954 | ENTPD4,SLC25A37 |
| 8 | 71,475,000 | 71,625,000 | 954 | 667 | 0.549407784 | SLC25A37 |
| 8 | 71,550,000 | 71,700,000 | 955 | 576 | 0.619969315 | NKX2-6,NKX3-1,SLC25A37 |
| 8 | 71,625,000 | 71,775,000 | 956 | 467 | 0.518471527 | NKX2-6,NKX3-1 |
| 8 | 71,700,000 | 71,850,000 | 957 | 425 | 0.552887641 | NKX2-6 |
| 8 | 71,775,000 | 71,925,000 | 958 | 574 | 0.882434516 | STC1 |
| 8 | 71,850,000 | 72,000,000 | 959 | 490 | 1.095686167 | STC1 |
| 8 | 71,925,000 | 72,075,000 | 960 | 292 | 1.237344959 | |
| 8 | 72,000,000 | 72,150,000 | 961 | 338 | 0.968040037 | |
| 8 | 72,075,000 | 72,225,000 | 962 | 434 | 0.266273281 | |
| 8 | 72,150,000 | 72,300,000 | 963 | 458 | 0.351354708 | ENSBTAG00000047207 |
| 8 | 72,225,000 | 72,375,000 | 964 | 512 | 0.635530327 | ENSBTAG00000047207 |
| 8 | 72,300,000 | 72,450,000 | 965 | 667 | 0.276544615 | ADAM28 |
| 8 | 72,375,000 | 72,525,000 | 966 | 728 | -0.03789874 | ADAM28,ADAMDEC1 |
| 8 | 72,450,000 | 72,600,000 | 967 | 721 | -0.986131261 | ADAM28,ADAM7,ADAMDEC1 |
| 8 | 72,525,000 | 72,675,000 | 968 | 877 | -1.162918396 | ADAM7 |
| 8 | 72,600,000 | 72,750,000 | 969 | 731 | -1.404579754 | |
| 8 | 72,675,000 | 72,825,000 | 970 | 838 | -0.108485615 | |
| 8 | 72,750,000 | 72,900,000 | 971 | 935 | 0.787527822 | |
| 8 | 72,825,000 | 72,975,000 | 972 | 922 | 1.206075059 | |
| 8 | 72,900,000 | 73,050,000 | 973 | 990 | 0.750494813 | |
| 8 | 72,975,000 | 73,125,000 | 974 | 967 | 0.369562031 | ENSBTAG00000001219 |
| 8 | 73,050,000 | 73,200,000 | 975 | 801 | 0.252147948 | NEFL,NF-M,ENSBTAG00000001219 |
| 8 | 73,125,000 | 73,275,000 | 976 | 361 | -0.561061694 | NEFL,NF-M |
| 8 | 73,200,000 | 73,350,000 | 977 | 704 | 0.919226466 | |
| 8 | 73,275,000 | 73,425,000 | 978 | 979 | 1.137180497 | |
| 8 | 73,350,000 | 73,500,000 | 979 | 811 | 1.117851966 | |
| 8 | 73,425,000 | 73,575,000 | 980 | 738 | 1.116719989 | DOCK5 |
| 8 | 73,500,000 | 73,650,000 | 981 | 511 | 1.008751602 | DOCK5 |
| 8 | 73,575,000 | 73,725,000 | 982 | 400 | 0.686208685 | DOCK5,GNRH1,KCTD9 |
| 8 | 73,650,000 | 73,800,000 | 983 | 447 | 1.172995588 | DOCK5,GNRH1,KCTD9,ENSBTAG00000002756 |
| 8 | 73,725,000 | 73,875,000 | 984 | 504 | 0.418652834 | KCTD9,ENSBTAG00000002756,ENSBTAG00000010829,ENSBTAG000000046594 |
| 8 | 73,800,000 | 73,950,000 | 985 | 529 | -0.20114397 | ENSBTAG00000002756,ENSBTAG00000010829,ENSBTAGO000046594 |
| 8 | 73,875,000 | 74,025,000 | 986 | 511 | 0.726046546 | ENSBTAG00000010829 |
| 8 | 73,950,000 | 74,100,000 | 987 | 544 | 0.581879965 | |
| 8 | 74,025,000 | 74,175,000 | 988 | 536 | -0.145272273 | EBF2 |
| 8 | 74,100,000 | 74,250,000 | 989 | 396 | -0.556806995 | EBF2 |
| 8 | 74,175,000 | 74,325,000 | 990 | 356 | -1.493552703 | EBF2 |
| 8 | 74,250,000 | 74,400,000 | 991 | 564 | -2.294174969 | EBF2 |
| 8 | 74,325,000 | 74,475,000 | 992 | 632 | -2.067060593 | EBF2 |
| 8 | 74,400,000 | 74,550,000 | 993 | 303 | -1.938864854 | |
| 8 | 74,475,000 | 74,625,000 | 994 | 21 | -1.123927959 | |
| 8 | 74,550,000 | 74,700,000 | 995 | 3 | -1.686181535 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 8 | 74,625,000 | 74,775,000 | 996 | 9 | 0.096326733 | |
| 8 | 74,700,000 | 74,850,000 | 997 | 142 | -0.070226862 | PPP2R2A |
| 8 | 74,775,000 | 74,925,000 | 998 | 317 | -0.097448939 | BNIP3L,PPP2R2A |
| 8 | 74,850,000 | 75,000,000 | 999 | 339 | -0.033456578 | BNIP3L,PPP2R2A |
| 8 | 74,925,000 | 75,075,000 | 1000 | 330 | 0.627654787 | BNIP3L,PNMA2 |
| 8 | 75,000,000 | 75,150,000 | 1001 | 435 | -0.886880265 | DPYSL2,PNMA2 |
| 8 | 75,075,000 | 75,225,000 | 1002 | 735 | -0.50993664 | DPYSL2 |
| 8 | 75,150,000 | 75,300,000 | 1003 | 950 | -0.024224917 | ADRA1A,DPYSL2 |
| 8 | 75,225,000 | 75,375,000 | 1004 | 825 | 0.102498032 | ADRA1A |
| 8 | 75,300,000 | 75,450,000 | 1005 | 823 | 0.766898648 | ADRA1A |
| 8 | 75,375,000 | 75,525,000 | 1006 | 713 | 0.32129125 | |
| 8 | 75,450,000 | 75,600,000 | 1007 | 398 | -0.503745381 | |
| 8 | 75,525,000 | 75,675,000 | 1008 | 443 | 0.746822917 | STMN4 |
| 8 | 75,600,000 | 75,750,000 | 1009 | 467 | 0.1572659 | PTK2B,STMN4,TRIM35 |
| 8 | 75,675,000 | 75,825,000 | 1010 | 471 | 0.394845872 | PTK2B,TRIM35 |
| 8 | 75,750,000 | 75,900,000 | 1011 | 619 | 0.499713581 | CHRNA2,PTK2B |
| 8 | 75,825,000 | 75,975,000 | 1012 | 907 | -1.08603095 | CHRNA2,EPHX2,PTK2B |
| 8 | 75,900,000 | 76,050,000 | 1013 | 1055 | -0.912065975 | EPHX2,GULO,ENSBTAG00000015027 |
| 8 | 75,975,000 | 76,125,000 | 1014 | 696 | 0.241711191 | APTX,DNAJA1,EPHX2,GULO,SMU1,ENSBTAG00000015027 |
| 8 | 76,050,000 | 76,200,000 | 1015 | 417 | 0.039995806 | APTX,B4GALT1,DNAJA1,SMU1 |
| 8 | 76,125,000 | 76,275,000 | 1016 | 354 | -0.740364508 | B4GALT1,SMU1 |
| 8 | 76,200,000 | 76,350,000 | 1017 | 307 | -0.504914875 | B4GALT1,SPINK4 |
| 8 | 76,275,000 | 76,425,000 | 1018 | 320 | -0.179283112 | BAG1,CHMP5,NFX1,SPINK4 |
| 8 | 76,350,000 | 76,500,000 | 1019 | 336 | 0.592185878 | BAG1,CHMP5,NFX1,ENSBTAG00000020105 |
| 8 | 76,425,000 | 76,575,000 | 1020 | 356 | 0.790595426 | AQP3,NFX1,NOL6,UBE2R2,ENSBTAG00000020105 |
| 8 | 76,500,000 | 76,650,000 | 1021 | 351 | 0.678353141 | AQP3,NOL6,UBE2R2 |
| 8 | 76,575,000 | 76,725,000 | 1022 | 335 | 0.314451726 | UBAP2,UBE2R2 |
| 8 | 76,650,000 | 76,800,000 | 1023 | 354 | 0.387350515 | UBAP2,UBE2R2 |
| 8 | 76,725,000 | 76,875,000 | 1024 | 453 | 0.59941633 | DCAF12,UBAP2 |
| 8 | 76,800,000 | 76,950,000 | 1025 | 433 | 0.613513609 | DCAF12 |
| 8 | 76,875,000 | 77,025,000 | 1026 | 334 | 0.654359829 | KIF24,UBAP1 |
| 8 | 76,950,000 | 77,100,000 | 1027 | 375 | 0.18150091 | KIF24,NUDT2,SMRP1,UBAP1,ENSBTAG00000005495 |
| 8 | 77,025,000 | 77,175,000 | 1028 | 413 | -0.386547179 | DNAI1,FAM219A,KIF24,NUDT2,SMRP1,ENSBTAG00000005495 |
| 8 | 77,100,000 | 77,250,000 | 1029 | 596 | -0.056939703 | DNAI1,ENHO,FAM219A,SMRP1,ENSBTAG00000005495 |
| 8 | 77,175,000 | 77,325,000 | 1030 | 528 | 0.180369019 | CNTFR,DCTN3,DNAI1,ENHO,RPP25L,ENSBTAG00000005495 |
| 8 | 77,250,000 | 77,400,000 | 1031 | 205 | 0.052796668 | ARID3C,CCL19,CCL27,CNTFR,DCTN3,GALT,IL11RA,RPP25L,SIGMAR1 |
| 8 | 77,325,000 | 77,475,000 | 1032 | 425 | -2.942860098 | ARID3C,CCL19,CCL21,CCL27,DCTN3,GALT,IL11RA,SIGMAR1,ENSBTAG00000039021 |
| 8 | 77,400,000 | 77,550,000 | 1033 | 708 | -0.018149409 | CCL21,RASEF,ENSBTAG00000039021 |
| 8 | 77,475,000 | 77,625,000 | 1034 | 595 | 0.793779276 | RASEF |
| 8 | 77,550,000 | 77,700,000 | 1035 | 693 | -0.292814753 | RASEF |
| 8 | 77,625,000 | 77,775,000 | 1036 | 795 | -0.281435881 | |
| 8 | 77,700,000 | 77,850,000 | 1037 | 952 | -0.861484295 | FRMD3 |
| 8 | 77,775,000 | 77,925,000 | 1038 | 1126 | -2.101337194 | FRMD3 |
| 8 | 77,850,000 | 78,000,000 | 1039 | 1170 | -2.529021203 | FRMD3 |
| 8 | 77,925,000 | 78,075,000 | 1040 | 1301 | 0.094472158 | |
| 8 | 78,000,000 | 78,150,000 | 1041 | 1013 | 0.808905358 | |
| 8 | 78,075,000 | 78,225,000 | 1042 | 803 | 1.055538941 | IDNK,UBQLN1 |
| 8 | 78,150,000 | 78,300,000 | 1043 | 881 | 1.13046799 | IDNK,UBQLN1 |

| | | | | | | |
|---|------------|------------|------|-----|--------------|------------------------|
| 8 | 78,225,000 | 78,375,000 | 1044 | 573 | 0.802800728 | GKAP1,UBQLN1 |
| 8 | 78,300,000 | 78,450,000 | 1045 | 294 | -0.282289236 | GKAP1,KIF27 |
| 8 | 78,375,000 | 78,525,000 | 1046 | 295 | 0.033474791 | GKAP1,KIF27 |
| 8 | 78,450,000 | 78,600,000 | 1047 | 293 | 0.365421475 | C8H9orf64,HNRNPK,KIF27 |
| 8 | 78,525,000 | 78,675,000 | 1048 | 263 | -1.216186791 | C8H9orf64,HNRNPK |
| 8 | 78,600,000 | 78,750,000 | 1049 | 274 | -1.202075684 | |
| 8 | 78,675,000 | 78,825,000 | 1050 | 647 | -1.046313325 | |
| 8 | 78,750,000 | 78,900,000 | 1051 | 698 | -0.608089707 | SLC28A3 |
| 8 | 78,825,000 | 78,975,000 | 1052 | 560 | -0.682725761 | SLC28A3 |
| 8 | 78,900,000 | 79,050,000 | 1053 | 554 | -0.860256215 | SLC28A3 |
| 8 | 78,975,000 | 79,125,000 | 1054 | 381 | 0.384874149 | |
| 8 | 79,050,000 | 79,200,000 | 1055 | 367 | 1.052020079 | |
| 8 | 79,125,000 | 79,275,000 | 1056 | 401 | 1.332749109 | |
| 8 | 79,200,000 | 79,350,000 | 1057 | 328 | 1.421545742 | NTRK2 |
| 8 | 79,275,000 | 79,425,000 | 1058 | 317 | 1.416837545 | NTRK2 |
| 8 | 79,350,000 | 79,500,000 | 1059 | 522 | 1.207432703 | NTRK2 |
| 8 | 79,425,000 | 79,575,000 | 1060 | 433 | 1.011472106 | NTRK2 |
| 8 | 79,500,000 | 79,650,000 | 1061 | 223 | -0.818423608 | NTRK2 |
| 8 | 79,575,000 | 79,725,000 | 1062 | 322 | -2.042806015 | NTRK2 |
| 8 | 79,650,000 | 79,800,000 | 1063 | 453 | -1.758070116 | NTRK2 |
| 8 | 79,725,000 | 79,875,000 | 1064 | 468 | -1.343661783 | NTRK2 |
| 8 | 79,800,000 | 79,950,000 | 1065 | 373 | -1.884049711 | |
| 8 | 79,875,000 | 80,025,000 | 1066 | 412 | -2.297032723 | |
| 8 | 79,950,000 | 80,100,000 | 1067 | 405 | -1.105819713 | |
| 8 | 80,025,000 | 80,175,000 | 1068 | 491 | -0.153452335 | |
| 8 | 80,100,000 | 80,250,000 | 1069 | 676 | -0.111344072 | AGTPBP1 |
| 8 | 80,175,000 | 80,325,000 | 1070 | 838 | 0.789143603 | AGTPBP1 |
| 8 | 80,250,000 | 80,400,000 | 1071 | 690 | 1.02359561 | AGTPBP1 |
| 8 | 80,325,000 | 80,475,000 | 1072 | 489 | 1.304644187 | AGTPBP1 |
| 8 | 80,400,000 | 80,550,000 | 1073 | 462 | 1.420186023 | NAA35 |
| 8 | 80,475,000 | 80,625,000 | 1074 | 258 | 1.293084991 | NAA35 |
| 8 | 80,550,000 | 80,700,000 | 1075 | 308 | 0.848144439 | GOLM1,NAA35 |
| 8 | 80,625,000 | 80,775,000 | 1076 | 376 | 0.982297814 | GOLM1,NAA35 |
| 8 | 80,700,000 | 80,850,000 | 1077 | 430 | 1.254075873 | C9orf153,ISCA1,ZCCHC6 |
| 8 | 80,775,000 | 80,925,000 | 1078 | 381 | 1.267520579 | C9orf153,ISCA1,ZCCHC6 |
| 8 | 80,850,000 | 81,000,000 | 1079 | 295 | 1.255783525 | ZCCHC6 |
| 8 | 80,925,000 | 81,075,000 | 1080 | 310 | 1.235457977 | |
| 8 | 81,000,000 | 81,150,000 | 1081 | 215 | 0.62050631 | |
| 8 | 81,075,000 | 81,225,000 | 1082 | 465 | -0.339651357 | |
| 8 | 81,150,000 | 81,300,000 | 1083 | 528 | -0.328772694 | |
| 8 | 81,225,000 | 81,375,000 | 1084 | 341 | 0.213475292 | |
| 8 | 81,300,000 | 81,450,000 | 1085 | 420 | 1.099931854 | |
| 8 | 81,375,000 | 81,525,000 | 1086 | 392 | 1.209171196 | GAS1 |
| 8 | 81,450,000 | 81,600,000 | 1087 | 397 | 0.03540141 | GAS1 |
| 8 | 81,525,000 | 81,675,000 | 1088 | 598 | -0.031662669 | |
| 8 | 81,600,000 | 81,750,000 | 1089 | 550 | 0.17418127 | |
| 8 | 81,675,000 | 81,825,000 | 1090 | 508 | 0.880918506 | |
| 8 | 81,750,000 | 81,900,000 | 1091 | 470 | 0.521275366 | |
| 8 | 81,825,000 | 81,975,000 | 1092 | 532 | -1.56030806 | |
| 8 | 81,900,000 | 82,050,000 | 1093 | 835 | -0.5100157 | |
| 8 | 81,975,000 | 82,125,000 | 1094 | 600 | -0.070404521 | |
| 8 | 82,050,000 | 82,200,000 | 1095 | 474 | -0.648514853 | |
| 8 | 82,125,000 | 82,275,000 | 1096 | 852 | 0.301486399 | DAPK1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------------------|
| 8 | 82,200,000 | 82,350,000 | 1097 | 1058 | 0.598674107 | DAPK1 |
| 8 | 82,275,000 | 82,425,000 | 1098 | 1012 | -0.295499305 | CTSL1,DAPK1,FBP2 |
| 8 | 82,350,000 | 82,500,000 | 1099 | 911 | -0.501355056 | CTSL1,FBP1,FBP2 |
| 8 | 82,425,000 | 82,575,000 | 1100 | 1011 | -0.044039586 | FBP1,FBP2 |
| 8 | 82,500,000 | 82,650,000 | 1101 | 777 | -0.051610913 | |
| 8 | 82,575,000 | 82,725,000 | 1102 | 445 | 0.61279116 | ENSBTAG00000000699 |
| 8 | 82,650,000 | 82,800,000 | 1103 | 572 | 0.897698968 | ENSBTAG00000000699 |
| 8 | 82,725,000 | 82,875,000 | 1104 | 578 | 1.155622591 | |
| 8 | 82,800,000 | 82,950,000 | 1105 | 489 | 0.948027666 | |
| 8 | 82,875,000 | 83,025,000 | 1106 | 355 | -0.042382503 | FANCC,ENSBTAG00000045622 |
| 8 | 82,950,000 | 83,100,000 | 1107 | 469 | 0.64443989 | FANCC,ENSBTAG00000045622 |
| 8 | 83,025,000 | 83,175,000 | 1108 | 669 | 1.28217333 | FANCC |
| 8 | 83,100,000 | 83,250,000 | 1109 | 610 | 0.821818088 | FANCC,TSPY-M2 |
| 8 | 83,175,000 | 83,325,000 | 1110 | 501 | -0.996357921 | FANCC,TSPY-M2 |
| 8 | 83,250,000 | 83,400,000 | 1111 | 411 | -0.812133228 | FANCC,TSPY-M2 |
| 8 | 83,325,000 | 83,475,000 | 1112 | 531 | 0.071175746 | |
| 8 | 83,400,000 | 83,550,000 | 1113 | 485 | 0.168150982 | ENSBTAG00000009903 |
| 8 | 83,475,000 | 83,625,000 | 1114 | 274 | 0.089867186 | PTCH1,ENSBTAG00000009903 |
| 8 | 83,550,000 | 83,700,000 | 1115 | 258 | 0.253795204 | PTCH1 |
| 8 | 83,625,000 | 83,775,000 | 1116 | 274 | -0.053873713 | |
| 8 | 83,700,000 | 83,850,000 | 1117 | 324 | 0.202400617 | |
| 8 | 83,775,000 | 83,925,000 | 1118 | 500 | 0.149519988 | |
| 8 | 83,850,000 | 84,000,000 | 1119 | 596 | -0.204200099 | ERCC6L2 |
| 8 | 83,925,000 | 84,075,000 | 1120 | 573 | 0.026392086 | ERCC6L2 |
| 8 | 84,000,000 | 84,150,000 | 1121 | 644 | 0.043891279 | ERCC6L2 |
| 8 | 84,075,000 | 84,225,000 | 1122 | 745 | 0.59241155 | ERCC6L2 |
| 8 | 84,150,000 | 84,300,000 | 1123 | 837 | 0.801393467 | |
| 8 | 84,225,000 | 84,375,000 | 1124 | 859 | 0.653537114 | |
| 8 | 84,300,000 | 84,450,000 | 1125 | 670 | 0.373834373 | HSD17B3 |
| 8 | 84,375,000 | 84,525,000 | 1126 | 514 | -0.85601426 | HSD17B3,SLC35D2,ZNF367 |
| 8 | 84,450,000 | 84,600,000 | 1127 | 367 | -1.746655201 | HABP4,SLC35D2,ZNF367 |
| 8 | 84,525,000 | 84,675,000 | 1128 | 198 | -2.366687062 | CDC14B,HABP4,ZNF367 |
| 8 | 84,600,000 | 84,750,000 | 1129 | 540 | -1.326019583 | CDC14B,HABP4 |
| 8 | 84,675,000 | 84,825,000 | 1130 | 603 | -1.392701171 | AAED1,CDC14B |
| 8 | 84,750,000 | 84,900,000 | 1131 | 488 | -1.20613899 | AAED1,RPS15A,ZNF782 |
| 8 | 84,825,000 | 84,975,000 | 1132 | 854 | -0.65243141 | RPS15A,ZNF782 |
| 8 | 84,900,000 | 85,050,000 | 1133 | 640 | -0.062292179 | CTSL,ZNF782 |
| 8 | 84,975,000 | 85,125,000 | 1134 | 263 | 0.669360867 | CTSL |
| 8 | 85,050,000 | 85,200,000 | 1135 | 449 | -1.201844114 | ENSBTAG00000009764 |
| 8 | 85,125,000 | 85,275,000 | 1136 | 534 | -0.633834269 | IARS,ZNF484,ENSBTAG00000009764 |
| 8 | 85,200,000 | 85,350,000 | 1137 | 416 | 0.376477474 | IARS,ZNF484 |
| 8 | 85,275,000 | 85,425,000 | 1138 | 376 | 0.28673693 | CENPP,IARS,NOL8 |
| 8 | 85,350,000 | 85,500,000 | 1139 | 501 | 0.610815381 | ASPN,CENPP,IARS,NOL8,OGN,OMD |
| 8 | 85,425,000 | 85,575,000 | 1140 | 607 | -0.245810824 | ASPN,ECM2,OGN,OMD |
| 8 | 85,500,000 | 85,650,000 | 1141 | 469 | -0.54281831 | ASPN,ECM2,IPPK |
| 8 | 85,575,000 | 85,725,000 | 1142 | 560 | 0.98313391 | BICD2,ECM2,IPPK |
| 8 | 85,650,000 | 85,800,000 | 1143 | 865 | 1.353953908 | BICD2,IPPK |
| 8 | 85,725,000 | 85,875,000 | 1144 | 1023 | 0.880549602 | BICD2,FGD3 |
| 8 | 85,800,000 | 85,950,000 | 1145 | 987 | 0.175136071 | C9orf89,FGD3,NINJ1,SUSD3 |
| 8 | 85,875,000 | 86,025,000 | 1146 | 818 | 0.47325754 | C9orf89,NINJ1,SUSD3,WNK2 |
| 8 | 85,950,000 | 86,100,000 | 1147 | 918 | 0.582655442 | WNK2 |
| 8 | 86,025,000 | 86,175,000 | 1148 | 950 | 0.772241824 | WNK2 |
| 8 | 86,100,000 | 86,250,000 | 1149 | 616 | 0.972892391 | FAM120A,WNK2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 8 | 86,175,000 | 86,325,000 | 1150 | 429 | -0.775962508 | FAM120A |
| 8 | 86,250,000 | 86,400,000 | 1151 | 519 | -0.881987931 | FAM120A,PHF2 |
| 8 | 86,325,000 | 86,475,000 | 1152 | 587 | 0.097803446 | PHF2 |
| 8 | 86,400,000 | 86,550,000 | 1153 | 935 | 0.141188724 | PHF2 |
| 8 | 86,475,000 | 86,625,000 | 1154 | 1386 | -0.663675453 | ENSBTAG00000009073 |
| 8 | 86,550,000 | 86,700,000 | 1155 | 945 | -0.932004704 | BARX1,ENSBTAG00000009073 |
| 8 | 86,625,000 | 86,775,000 | 1156 | 824 | -1.630399424 | BARX1 |
| 8 | 86,700,000 | 86,850,000 | 1157 | 1225 | -1.624609645 | PTPDC1 |
| 8 | 86,775,000 | 86,925,000 | 1158 | 1088 | -0.981985012 | PTPDC1 |
| 8 | 86,850,000 | 87,000,000 | 1159 | 938 | -0.177777459 | ZNF169 |
| 8 | 86,925,000 | 87,075,000 | 1160 | 1590 | 0.35943466 | ZNF169,ENSBTAG00000031359 |
| 8 | 87,000,000 | 87,150,000 | 1161 | 1589 | 0.387186504 | CDC42BPA,ENSBTAG00000031359 |
| 8 | 87,075,000 | 87,225,000 | 1162 | 938 | 0.478937391 | CDC42BPA,SPTLC1 |
| 8 | 87,150,000 | 87,300,000 | 1163 | 1185 | -0.21442261 | CDC42BPA,SPTLC1 |
| 8 | 87,225,000 | 87,375,000 | 1164 | 1347 | 0.430781641 | ROR2,SPTLC1 |
| 8 | 87,300,000 | 87,450,000 | 1165 | 1482 | 1.209605876 | ROR2 |
| 8 | 87,375,000 | 87,525,000 | 1166 | 1413 | 1.248320924 | ROR2 |
| 8 | 87,450,000 | 87,600,000 | 1167 | 1329 | 1.152898547 | ROR2 |
| 8 | 87,525,000 | 87,675,000 | 1168 | 1548 | 0.9875874 | ROR2 |
| 8 | 87,600,000 | 87,750,000 | 1169 | 1580 | 0.850892258 | |
| 8 | 87,675,000 | 87,825,000 | 1170 | 1251 | 0.766988143 | |
| 8 | 87,750,000 | 87,900,000 | 1171 | 827 | 0.888201045 | NFIL3 |
| 8 | 87,825,000 | 87,975,000 | 1172 | 811 | 1.191012168 | AUH,NFIL3 |
| 8 | 87,900,000 | 88,050,000 | 1173 | 910 | 1.316282869 | AUH |
| 8 | 87,975,000 | 88,125,000 | 1174 | 601 | 0.902951731 | AUH |
| 8 | 88,050,000 | 88,200,000 | 1175 | 442 | 0.188835782 | |
| 8 | 88,125,000 | 88,275,000 | 1176 | 643 | 0.443787646 | |
| 8 | 88,200,000 | 88,350,000 | 1177 | 631 | 0.377129437 | |
| 8 | 88,275,000 | 88,425,000 | 1178 | 535 | -0.010663243 | SYK |
| 8 | 88,350,000 | 88,500,000 | 1179 | 620 | -0.09460093 | SYK |
| 8 | 88,425,000 | 88,575,000 | 1180 | 738 | 0.181937637 | SYK |
| 8 | 88,500,000 | 88,650,000 | 1181 | 907 | 0.800253376 | SYK,ENSBTAG00000046969 |
| 8 | 88,575,000 | 88,725,000 | 1182 | 1482 | 0.926422101 | DIRAS2,ENSBTAG00000046969 |
| 8 | 88,650,000 | 88,800,000 | 1183 | 1272 | 0.579522435 | DIRAS2 |
| 8 | 88,725,000 | 88,875,000 | 1184 | 785 | 0.134310139 | |
| 8 | 88,800,000 | 88,950,000 | 1185 | 1267 | 0.965954213 | |
| 8 | 88,875,000 | 89,025,000 | 1186 | 1466 | 0.67032568 | |
| 8 | 88,950,000 | 89,100,000 | 1187 | 1212 | -0.294405851 | |
| 8 | 89,025,000 | 89,175,000 | 1188 | 1202 | -0.264621446 | |
| 8 | 89,100,000 | 89,250,000 | 1189 | 1502 | 0.152764685 | |
| 8 | 89,175,000 | 89,325,000 | 1190 | 1281 | 0.343767895 | |
| 8 | 89,250,000 | 89,400,000 | 1191 | 873 | -0.293275613 | |
| 8 | 89,325,000 | 89,475,000 | 1192 | 670 | -0.449091223 | |
| 8 | 89,400,000 | 89,550,000 | 1193 | 531 | -2.35424565 | |
| 8 | 89,475,000 | 89,625,000 | 1194 | 626 | -3.07969704 | |
| 8 | 89,550,000 | 89,700,000 | 1195 | 1082 | -3.016054672 | |
| 8 | 89,625,000 | 89,775,000 | 1196 | 1428 | -2.724943146 | |
| 8 | 89,700,000 | 89,850,000 | 1197 | 1185 | -1.330730039 | |
| 8 | 89,775,000 | 89,925,000 | 1198 | 981 | -0.078709248 | |
| 8 | 89,850,000 | 90,000,000 | 1199 | 882 | 0.005222449 | |
| 8 | 89,925,000 | 90,075,000 | 1200 | 1004 | 0.187880344 | GADD45G |
| 8 | 90,000,000 | 90,150,000 | 1201 | 912 | 0.626961827 | GADD45G,SEMA4D |
| 8 | 90,075,000 | 90,225,000 | 1202 | 622 | 0.58583932 | SEMA4D |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------------|
| 8 | 90,150,000 | 90,300,000 | 1203 | 614 | 0.301347111 | SECISBP2,SEMA4D |
| 8 | 90,225,000 | 90,375,000 | 1204 | 781 | -0.347243629 | CKS2,SECISBP2,SEMA4D |
| 8 | 90,300,000 | 90,450,000 | 1205 | 954 | -0.526540796 | CKS2 |
| 8 | 90,375,000 | 90,525,000 | 1206 | 1016 | 0.329027506 | |
| 8 | 90,450,000 | 90,600,000 | 1207 | 1181 | 1.140521139 | SHC3 |
| 8 | 90,525,000 | 90,675,000 | 1208 | 1169 | 1.085275118 | S1PR3,SHC3 |
| 8 | 90,600,000 | 90,750,000 | 1209 | 1087 | 0.797877506 | S1PR3,SHC3 |
| 8 | 90,675,000 | 90,825,000 | 1210 | 1364 | 0.585171367 | |
| 8 | 90,750,000 | 90,900,000 | 1211 | 1298 | 0.341735912 | |
| 8 | 90,825,000 | 90,975,000 | 1212 | 913 | -0.34370309 | |
| 8 | 90,900,000 | 91,050,000 | 1213 | 691 | -0.143130133 | |
| 8 | 90,975,000 | 91,125,000 | 1214 | 582 | 0.716040785 | NXNL2 |
| 8 | 91,050,000 | 91,200,000 | 1215 | 729 | 1.187145756 | NXNL2,SPIN1 |
| 8 | 91,125,000 | 91,275,000 | 1216 | 749 | 0.8408442 | NXNL2,SPIN1 |
| 8 | 91,200,000 | 91,350,000 | 1217 | 520 | -0.189546748 | SPIN1 |
| 8 | 91,275,000 | 91,425,000 | 1218 | 717 | -0.290169307 | |
| 8 | 91,350,000 | 91,500,000 | 1219 | 759 | -1.37299197 | |
| 8 | 91,425,000 | 91,575,000 | 1220 | 861 | -0.599395159 | |
| 8 | 91,500,000 | 91,650,000 | 1221 | 867 | 0.475379641 | CCRK,FBXW12 |
| 8 | 91,575,000 | 91,725,000 | 1222 | 493 | 0.531036764 | CCRK,FBXW12,ENSBTAG00000021235 |
| 8 | 91,650,000 | 91,800,000 | 1223 | 383 | 0.60565627 | FBXW12,ENSBTAG00000021235 |
| 8 | 91,725,000 | 91,875,000 | 1224 | 678 | -0.771370315 | ENSBTAG00000021235,ENSBTAG00000021991 |
| 8 | 91,800,000 | 91,950,000 | 1225 | 947 | -0.683663937 | MURC,ENSBTAG00000021991 |
| 8 | 91,875,000 | 92,025,000 | 1226 | 749 | -0.049625468 | MURC,ENSBTAG00000021991 |
| 8 | 91,950,000 | 92,100,000 | 1227 | 648 | -0.027811224 | |
| 8 | 92,025,000 | 92,175,000 | 1228 | 744 | 0.801242335 | |
| 8 | 92,100,000 | 92,250,000 | 1229 | 945 | 1.104652298 | |
| 8 | 92,175,000 | 92,325,000 | 1230 | 883 | -0.032476472 | |
| 8 | 92,250,000 | 92,400,000 | 1231 | 1101 | -0.200454326 | LPPR1 |
| 8 | 92,325,000 | 92,475,000 | 1232 | 1171 | 0.283671533 | LPPR1 |
| 8 | 92,400,000 | 92,550,000 | 1233 | 958 | -1.100819968 | LPPR1 |
| 8 | 92,475,000 | 92,625,000 | 1234 | 971 | -1.308584939 | LPPR1 |
| 8 | 92,550,000 | 92,700,000 | 1235 | 828 | -0.73208292 | BAAT,LPPR1 |
| 8 | 92,625,000 | 92,775,000 | 1236 | 551 | -0.818055117 | ALDOB,BAAT,LPPR1,MRPL50,ZNF189 |
| 8 | 92,700,000 | 92,850,000 | 1237 | 366 | 0.776023472 | ALDOB,MRPL50,TMEM246,ZNF189 |
| 8 | 92,775,000 | 92,925,000 | 1238 | 339 | -1.637808033 | ALDOB,RNF20,TMEM246 |
| 8 | 92,850,000 | 93,000,000 | 1239 | 513 | -0.193461905 | ALDOB,GRIN3A,RNF20,TMEM246 |
| 8 | 92,925,000 | 93,075,000 | 1240 | 705 | 0.17111594 | GRIN3A,RNF20 |
| 8 | 93,000,000 | 93,150,000 | 1241 | 527 | -1.933682316 | GRIN3A |
| 8 | 93,075,000 | 93,225,000 | 1242 | 441 | -0.160140124 | GRIN3A |
| 8 | 93,150,000 | 93,300,000 | 1243 | 668 | -0.038084327 | ENSBTAG00000030953 |
| 8 | 93,225,000 | 93,375,000 | 1244 | 903 | 0.164889171 | ENSBTAG00000030953 |
| 8 | 93,300,000 | 93,450,000 | 1245 | 939 | 0.720078765 | |
| 8 | 93,375,000 | 93,525,000 | 1246 | 762 | 0.60782641 | |
| 8 | 93,450,000 | 93,600,000 | 1247 | 965 | 0.098444129 | |
| 8 | 93,525,000 | 93,675,000 | 1248 | 1372 | -0.146853463 | |
| 8 | 93,600,000 | 93,750,000 | 1249 | 1158 | 0.453063051 | |
| 8 | 93,675,000 | 93,825,000 | 1250 | 1257 | 1.174329952 | |
| 8 | 93,750,000 | 93,900,000 | 1251 | 1511 | 1.31329595 | |
| 8 | 93,825,000 | 93,975,000 | 1252 | 1528 | 0.627017917 | |
| 8 | 93,900,000 | 94,050,000 | 1253 | 1571 | -0.5282069 | |
| 8 | 93,975,000 | 94,125,000 | 1254 | 1414 | -0.434507063 | |
| 8 | 94,050,000 | 94,200,000 | 1255 | 951 | -0.270977247 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 8 | 94,125,000 | 94,275,000 | 1256 | 573 | 0.183625698 | CYLC2 |
| 8 | 94,200,000 | 94,350,000 | 1257 | 508 | -0.110098532 | CYLC2 |
| 8 | 94,275,000 | 94,425,000 | 1258 | 583 | -0.706989053 | |
| 8 | 94,350,000 | 94,500,000 | 1259 | 1032 | -0.081736338 | |
| 8 | 94,425,000 | 94,575,000 | 1260 | 1374 | -0.057170008 | |
| 8 | 94,500,000 | 94,650,000 | 1261 | 1350 | -0.920790914 | |
| 8 | 94,575,000 | 94,725,000 | 1262 | 1382 | -0.730457736 | |
| 8 | 94,650,000 | 94,800,000 | 1263 | 1103 | -0.048267301 | |
| 8 | 94,725,000 | 94,875,000 | 1264 | 835 | 0.183600391 | |
| 8 | 94,800,000 | 94,950,000 | 1265 | 1182 | 0.686155451 | |
| 8 | 94,875,000 | 95,025,000 | 1266 | 1159 | 0.639074742 | |
| 8 | 94,950,000 | 95,100,000 | 1267 | 838 | 0.442920139 | |
| 8 | 95,025,000 | 95,175,000 | 1268 | 617 | 1.072632658 | |
| 8 | 95,100,000 | 95,250,000 | 1269 | 772 | -0.416094923 | |
| 8 | 95,175,000 | 95,325,000 | 1270 | 864 | -0.707328349 | |
| 8 | 95,250,000 | 95,400,000 | 1271 | 716 | 0.447161829 | SMC2 |
| 8 | 95,325,000 | 95,475,000 | 1272 | 987 | 0.938203061 | SMC2 |
| 8 | 95,400,000 | 95,550,000 | 1273 | 1065 | 0.979213421 | SMC2 |
| 8 | 95,475,000 | 95,625,000 | 1274 | 1073 | 1.187970906 | ENSBTAG00000047350 |
| 8 | 95,550,000 | 95,700,000 | 1275 | 1054 | 1.274162647 | ENSBTAG00000047350 |
| 8 | 95,625,000 | 95,775,000 | 1276 | 853 | 1.196089225 | OR13F1 |
| 8 | 95,700,000 | 95,850,000 | 1277 | 620 | 0.921328719 | OR13F1,ENSBTAG00000046292 |
| 8 | 95,775,000 | 95,925,000 | 1278 | 358 | 0.464522419 | ENSBTAG00000016173,ENSBTAG00000036005,ENSBTAG0000036008,ENSBTAG00000046292 |
| 8 | 95,850,000 | 96,000,000 | 1279 | 293 | 0.994281557 | ENSBTAG00000000145,ENSBTAG00000016173,ENSBTAG0000036005,ENSBTAG00000036008,ENSBTAG00000048106 |
| 8 | 95,925,000 | 96,075,000 | 1280 | 303 | 1.051311365 | OR13C3,ENSBTAG00000000145,ENSBTAG00000048106 |
| 8 | 96,000,000 | 96,150,000 | 1281 | 545 | 1.19521626 | OR13C3,OR13C8 |
| 8 | 96,075,000 | 96,225,000 | 1282 | 803 | 1.299268272 | OR13C8,ENSBTAG00000039868 |
| 8 | 96,150,000 | 96,300,000 | 1283 | 720 | 0.941050994 | ABCA1,NIPSNAP3A,ENSBTAG00000039868 |
| 8 | 96,225,000 | 96,375,000 | 1284 | 515 | 0.583543262 | ABCA1,NIPSNAP3A |
| 8 | 96,300,000 | 96,450,000 | 1285 | 539 | -0.057595931 | ABCA1 |
| 8 | 96,375,000 | 96,525,000 | 1286 | 578 | -0.820454296 | ABCA1 |
| 8 | 96,450,000 | 96,600,000 | 1287 | 407 | -0.864162024 | |
| 8 | 96,525,000 | 96,675,000 | 1288 | 360 | -0.261678332 | |
| 8 | 96,600,000 | 96,750,000 | 1289 | 332 | -0.092165134 | |
| 8 | 96,675,000 | 96,825,000 | 1290 | 505 | 0.049373929 | SLC44A1 |
| 8 | 96,750,000 | 96,900,000 | 1291 | 630 | -0.000405545 | SLC44A1 |
| 8 | 96,825,000 | 96,975,000 | 1292 | 555 | 0.295112527 | FSD1L,SLC44A1 |
| 8 | 96,900,000 | 97,050,000 | 1293 | 515 | 0.228459675 | FKTN,FSD1L |
| 8 | 96,975,000 | 97,125,000 | 1294 | 659 | 0.095947905 | FKTN,FSD1L,TAL2 |
| 8 | 97,050,000 | 97,200,000 | 1295 | 695 | 0.352767251 | FKTN,TAL2,TMEM38B |
| 8 | 97,125,000 | 97,275,000 | 1296 | 660 | 0.582274956 | TMEM38B |
| 8 | 97,200,000 | 97,350,000 | 1297 | 671 | 0.747675641 | TMEM38B |
| 8 | 97,275,000 | 97,425,000 | 1298 | 527 | 0.102955804 | |
| 8 | 97,350,000 | 97,500,000 | 1299 | 813 | 0.055917154 | |
| 8 | 97,425,000 | 97,575,000 | 1300 | 811 | 0.448559056 | |
| 8 | 97,500,000 | 97,650,000 | 1301 | 371 | 0.679129765 | |
| 8 | 97,575,000 | 97,725,000 | 1302 | 438 | 0.322752152 | |
| 8 | 97,650,000 | 97,800,000 | 1303 | 823 | 1.052956084 | |
| 8 | 97,725,000 | 97,875,000 | 1304 | 1092 | 0.925990828 | |
| 8 | 97,800,000 | 97,950,000 | 1305 | 995 | 0.47310125 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 8 | 97,875,000 | 98,025,000 | 1306 | 845 | 0.333162376 | |
| 8 | 97,950,000 | 98,100,000 | 1307 | 787 | 0.396552321 | |
| 8 | 98,025,000 | 98,175,000 | 1308 | 527 | 0.478729539 | |
| 8 | 98,100,000 | 98,250,000 | 1309 | 467 | 0.364710574 | |
| 8 | 98,175,000 | 98,325,000 | 1310 | 444 | 0.69161379 | |
| 8 | 98,250,000 | 98,400,000 | 1311 | 297 | 0.657123747 | ZNF462 |
| 8 | 98,325,000 | 98,475,000 | 1312 | 397 | 0.470124274 | ZNF462 |
| 8 | 98,400,000 | 98,550,000 | 1313 | 1018 | 0.871446178 | ZNF462 |
| 8 | 98,475,000 | 98,625,000 | 1314 | 1085 | 0.745408685 | |
| 8 | 98,550,000 | 98,700,000 | 1315 | 569 | -1.437780701 | RAD23B |
| 8 | 98,625,000 | 98,775,000 | 1316 | 430 | -2.535742196 | RAD23B |
| 8 | 98,700,000 | 98,850,000 | 1317 | 402 | -0.617621156 | KLF4,RAD23B |
| 8 | 98,775,000 | 98,925,000 | 1318 | 577 | 0.385590248 | KLF4 |
| 8 | 98,850,000 | 99,000,000 | 1319 | 931 | 0.71214331 | |
| 8 | 98,925,000 | 99,075,000 | 1320 | 1146 | 0.582945014 | |
| 8 | 99,000,000 | 99,150,000 | 1321 | 954 | 0.259910635 | |
| 8 | 99,075,000 | 99,225,000 | 1322 | 614 | -0.321146844 | |
| 8 | 99,150,000 | 99,300,000 | 1323 | 470 | -0.372243882 | |
| 8 | 99,225,000 | 99,375,000 | 1324 | 415 | 0.505001518 | |
| 8 | 99,300,000 | 99,450,000 | 1325 | 322 | 0.846407484 | |
| 8 | 99,375,000 | 99,525,000 | 1326 | 423 | 0.239031582 | |
| 8 | 99,450,000 | 99,600,000 | 1327 | 620 | 0.565252263 | |
| 8 | 99,525,000 | 99,675,000 | 1328 | 718 | 0.696417128 | |
| 8 | 99,600,000 | 99,750,000 | 1329 | 718 | -0.5231479 | |
| 8 | 99,675,000 | 99,825,000 | 1330 | 689 | -1.521156643 | |
| 8 | 99,750,000 | 99,900,000 | 1331 | 586 | -0.340544472 | ENSBTAG00000000885 |
| 8 | 99,825,000 | 99,975,000 | 1332 | 430 | 1.109679842 | ENSBTAG00000000885 |
| 8 | 99,900,000 | 100,050,000 | 1333 | 333 | 0.856828127 | |
| 8 | 99,975,000 | 100,125,000 | 1334 | 273 | 0.593582866 | |
| 8 | 100,050,000 | 100,200,000 | 1335 | 216 | 0.976830195 | ACTL7A,ACTL7B,IKBKAP |
| 8 | 100,125,000 | 100,275,000 | 1336 | 242 | 0.773186628 | ACTL7A,ACTL7B,CTNNAL1,FAM206A,IKBKAP |
| 8 | 100,200,000 | 100,350,000 | 1337 | 367 | 0.638717864 | CTNNAL1,FAM206A,IKBKAP,TMEM245 |
| 8 | 100,275,000 | 100,425,000 | 1338 | 358 | 0.766244809 | CTNNAL1,EPB41L4B,FRRS1L,TMEM245 |
| 8 | 100,350,000 | 100,500,000 | 1339 | 306 | 0.854944595 | EPB41L4B,FRRS1L,TMEM245 |
| 8 | 100,425,000 | 100,575,000 | 1340 | 420 | 0.909143046 | EPB41L4B |
| 8 | 100,500,000 | 100,650,000 | 1341 | 557 | 0.890356579 | EPB41L4B,PTPN3 |
| 8 | 100,575,000 | 100,725,000 | 1342 | 480 | 0.752874695 | PTPN3 |
| 8 | 100,650,000 | 100,800,000 | 1343 | 647 | 0.846162586 | PTPN3 |
| 8 | 100,725,000 | 100,875,000 | 1344 | 963 | 0.622938274 | |
| 8 | 100,800,000 | 100,950,000 | 1345 | 911 | 0.38169122 | |
| 8 | 100,875,000 | 101,025,000 | 1346 | 1048 | -0.359585257 | PALM2 |
| 8 | 100,950,000 | 101,100,000 | 1347 | 1320 | -0.462199511 | PALM2 |
| 8 | 101,025,000 | 101,175,000 | 1348 | 1398 | 0.118866657 | PALM2 |
| 8 | 101,100,000 | 101,250,000 | 1349 | 1403 | 0.495392778 | PALM2 |
| 8 | 101,175,000 | 101,325,000 | 1350 | 1294 | 0.729912133 | PALM2 |
| 8 | 101,250,000 | 101,400,000 | 1351 | 1251 | 0.055690659 | ENSBTAG00000014471 |
| 8 | 101,325,000 | 101,475,000 | 1352 | 1014 | -0.553421244 | C8H9orf152,ENSBTAG00000014471 |
| 8 | 101,400,000 | 101,550,000 | 1353 | 655 | -1.85129569 | C8H9orf152,TXN,TXNDC8,ENSBTAG00000014471 |
| 8 | 101,475,000 | 101,625,000 | 1354 | 444 | -2.4138446 | SVEP1,TXN,TXNDC8 |
| 8 | 101,550,000 | 101,700,000 | 1355 | 676 | 1.087590038 | SVEP1,TXNDC8 |
| 8 | 101,625,000 | 101,775,000 | 1356 | 748 | 1.171288621 | SVEP1 |
| 8 | 101,700,000 | 101,850,000 | 1357 | 321 | 0.567359242 | SVEP1 |
| 8 | 101,775,000 | 101,925,000 | 1358 | 262 | 0.409794835 | MUSK,SVEP1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 8 | 101,850,000 | 102,000,000 | 1359 | 381 | 0.635606206 | MUSK |
| 8 | 101,925,000 | 102,075,000 | 1360 | 794 | 0.962162331 | LPAR1,MUSK |
| 8 | 102,000,000 | 102,150,000 | 1361 | 898 | 0.936979282 | LPAR1 |
| 8 | 102,075,000 | 102,225,000 | 1362 | 735 | 0.655522235 | LPAR1 |
| 8 | 102,150,000 | 102,300,000 | 1363 | 761 | -0.178833078 | |
| 8 | 102,225,000 | 102,375,000 | 1364 | 530 | -0.481127996 | |
| 8 | 102,300,000 | 102,450,000 | 1365 | 785 | -0.043511776 | |
| 8 | 102,375,000 | 102,525,000 | 1366 | 802 | -0.038543101 | KIAA0368,OR2K2 |
| 8 | 102,450,000 | 102,600,000 | 1367 | 491 | 0.216596622 | KIAA0368,OR2K2 |
| 8 | 102,525,000 | 102,675,000 | 1368 | 531 | -0.078284802 | KIAA0368,PTGR1,ZNF483 |
| 8 | 102,600,000 | 102,750,000 | 1369 | 696 | -0.045055624 | PTGR1,ZNF483 |
| 8 | 102,675,000 | 102,825,000 | 1370 | 703 | -0.119222539 | C9orf84,DNAJC25,GNG10,PTGR1 |
| 8 | 102,750,000 | 102,900,000 | 1371 | 411 | -0.523001265 | C9orf84,DNAJC25,GNG10 |
| 8 | 102,825,000 | 102,975,000 | 1372 | 349 | -0.324480827 | C9orf84 |
| 8 | 102,900,000 | 103,050,000 | 1373 | 453 | -0.843547431 | UGCG |
| 8 | 102,975,000 | 103,125,000 | 1374 | 448 | -0.180441834 | UGCG |
| 8 | 103,050,000 | 103,200,000 | 1375 | 620 | 1.054126081 | SUSD1 |
| 8 | 103,125,000 | 103,275,000 | 1376 | 790 | 0.831877599 | SUSD1 |
| 8 | 103,200,000 | 103,350,000 | 1377 | 512 | 0.598171117 | PTBP3,SUSD1 |
| 8 | 103,275,000 | 103,425,000 | 1378 | 351 | 1.042620485 | IGBP1,PTBP3,SUSD1 |
| 8 | 103,350,000 | 103,500,000 | 1379 | 453 | 1.266699629 | HSDL2,IGBP1,PTBP3 |
| 8 | 103,425,000 | 103,575,000 | 1380 | 614 | 0.895607643 | HSDL2,IGBP1 |
| 8 | 103,500,000 | 103,650,000 | 1381 | 494 | 0.692790524 | HSDL2,KIAA1958 |
| 8 | 103,575,000 | 103,725,000 | 1382 | 644 | -0.533744924 | INIP,KIAA1958 |
| 8 | 103,650,000 | 103,800,000 | 1383 | 980 | 0.327398694 | INIP,SNX30 |
| 8 | 103,725,000 | 103,875,000 | 1384 | 693 | 1.027667986 | SNX30,TSCOT |
| 8 | 103,800,000 | 103,950,000 | 1385 | 691 | 1.164333128 | SNX30,TSCOT,ENSBTAG00000018481,ENSBTAG00000047990 |
| 8 | 103,875,000 | 104,025,000 | 1386 | 954 | 1.25815127 | ENSBTAG00000018481,ENSBTAG00000045868,ENSBTAG0000047990 |
| 8 | 103,950,000 | 104,100,000 | 1387 | 932 | 1.265580513 | ENSBTAG00000045868 |
| 8 | 104,025,000 | 104,175,000 | 1388 | 886 | -0.272250992 | FKBP15,SLC31A1,SLC31A2 |
| 8 | 104,100,000 | 104,250,000 | 1389 | 674 | -1.457621491 | CDC26,FKBP15,PRPF4,RNF183,SLC31A1,SLC31A2 |
| 8 | 104,175,000 | 104,325,000 | 1390 | 572 | -0.057679697 | BSPRY,CDC26,PRPF4,RNF183,SLC31A1,WDR31 |
| 8 | 104,250,000 | 104,400,000 | 1391 | 787 | 0.705759033 | ALAD,BSPRY,C9orf43,HDHD3,POLE3,WDR31,ENSBTAG0000045506 |
| 8 | 104,325,000 | 104,475,000 | 1392 | 716 | 0.285542684 | ALAD,BSPRY,C9orf43,HDHD3,POLE3,RGS3,ENSBTAG0000045506 |
| 8 | 104,400,000 | 104,550,000 | 1393 | 470 | -0.49034259 | RGS3 |
| 8 | 104,475,000 | 104,625,000 | 1394 | 433 | -0.118258239 | RGS3 |
| 8 | 104,550,000 | 104,700,000 | 1395 | 627 | 0.661418478 | |
| 8 | 104,625,000 | 104,775,000 | 1396 | 698 | 0.198618595 | |
| 8 | 104,700,000 | 104,850,000 | 1397 | 568 | -0.816216599 | ZNF618 |
| 8 | 104,775,000 | 104,925,000 | 1398 | 730 | 0.693102334 | ZNF618 |
| 8 | 104,850,000 | 105,000,000 | 1399 | 922 | 0.212845132 | ZNF618 |
| 8 | 104,925,000 | 105,075,000 | 1400 | 1068 | -0.267760164 | AMBP,KIF12,ZNF618 |
| 8 | 105,000,000 | 105,150,000 | 1401 | 797 | 0.275327972 | AMBP,COL27A1,KIF12 |
| 8 | 105,075,000 | 105,225,000 | 1402 | 468 | 0.605999884 | AGP,AKNA,COL27A1 |
| 8 | 105,150,000 | 105,300,000 | 1403 | 523 | 0.589714935 | AGP,AKNA,COL27A1 |
| 8 | 105,225,000 | 105,375,000 | 1404 | 486 | 0.982613377 | AKNA,DFNB31 |
| 8 | 105,300,000 | 105,450,000 | 1405 | 433 | 0.866566299 | AKNA,DFNB31 |
| 8 | 105,375,000 | 105,525,000 | 1406 | 452 | 0.617971604 | ATP6V1G1,C9orf91,DFNB31 |
| 8 | 105,450,000 | 105,600,000 | 1407 | 492 | 0.372843177 | ATP6V1G1,C9orf91 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 8 | 105,525,000 | 105,675,000 | 1408 | 418 | -0.166862931 | C9orf91 |
| 8 | 105,600,000 | 105,750,000 | 1409 | 364 | 0.046661202 | TNFSF15 |
| 8 | 105,675,000 | 105,825,000 | 1410 | 407 | -0.447569884 | TNFSF15 |
| 8 | 105,750,000 | 105,900,000 | 1411 | 485 | -2.127120359 | TNFSF8 |
| 8 | 105,825,000 | 105,975,000 | 1412 | 573 | -0.903670514 | TNC,TNFSF8 |
| 8 | 105,900,000 | 106,050,000 | 1413 | 545 | 0.131929242 | TNC |
| 8 | 105,975,000 | 106,125,000 | 1414 | 494 | -0.178138776 | TNC |
| 8 | 106,050,000 | 106,200,000 | 1415 | 720 | -0.699587503 | TNC |
| 8 | 106,125,000 | 106,275,000 | 1416 | 816 | -0.302302699 | |
| 8 | 106,200,000 | 106,350,000 | 1417 | 862 | 0.554507916 | |
| 8 | 106,275,000 | 106,425,000 | 1418 | 793 | 0.765590093 | |
| 8 | 106,350,000 | 106,500,000 | 1419 | 612 | 0.662054139 | |
| 8 | 106,425,000 | 106,575,000 | 1420 | 524 | -0.005188843 | |
| 8 | 106,500,000 | 106,650,000 | 1421 | 594 | 0.290613512 | |
| 8 | 106,575,000 | 106,725,000 | 1422 | 892 | 0.962718617 | |
| 8 | 106,650,000 | 106,800,000 | 1423 | 863 | 0.807927825 | |
| 8 | 106,725,000 | 106,875,000 | 1424 | 824 | 0.156029542 | |
| 8 | 106,800,000 | 106,950,000 | 1425 | 734 | -0.426060609 | |
| 8 | 106,875,000 | 107,025,000 | 1426 | 669 | -0.889962142 | |
| 8 | 106,950,000 | 107,100,000 | 1427 | 739 | -0.184390776 | |
| 8 | 107,025,000 | 107,175,000 | 1428 | 524 | 0.797372096 | PAPPA |
| 8 | 107,100,000 | 107,250,000 | 1429 | 389 | 0.9390786 | PAPPA |
| 8 | 107,175,000 | 107,325,000 | 1430 | 383 | 0.575268331 | PAPPA |
| 8 | 107,250,000 | 107,400,000 | 1431 | 470 | -0.130235763 | PAPPA |
| 8 | 107,325,000 | 107,475,000 | 1432 | 556 | -0.073000847 | PAPPA,ENSBTAG00000047511 |
| 8 | 107,400,000 | 107,550,000 | 1433 | 435 | 0.458428435 | ENSBTAG00000047511 |
| 8 | 107,475,000 | 107,625,000 | 1434 | 454 | 0.742175837 | ENSBTAG00000025667 |
| 8 | 107,550,000 | 107,700,000 | 1435 | 499 | -0.668397606 | TRIM32,ENSBTAG00000025667 |
| 8 | 107,625,000 | 107,775,000 | 1436 | 523 | -2.372454949 | TRIM32,ENSBTAG00000025667 |
| 8 | 107,700,000 | 107,850,000 | 1437 | 594 | -2.078550001 | ENSBTAG00000025667 |
| 8 | 107,775,000 | 107,925,000 | 1438 | 1001 | -1.68071458 | ENSBTAG00000025667 |
| 8 | 107,850,000 | 108,000,000 | 1439 | 1310 | -0.38723846 | |
| 8 | 107,925,000 | 108,075,000 | 1440 | 1006 | 0.527446504 | |
| 8 | 108,000,000 | 108,150,000 | 1441 | 821 | -0.86448632 | |
| 8 | 108,075,000 | 108,225,000 | 1442 | 771 | -2.874734321 | |
| 8 | 108,150,000 | 108,300,000 | 1443 | 833 | -3.482277265 | |
| 8 | 108,225,000 | 108,375,000 | 1444 | 854 | -1.483621308 | |
| 8 | 108,300,000 | 108,450,000 | 1445 | 704 | 0.91815775 | |
| 8 | 108,375,000 | 108,525,000 | 1446 | 577 | 0.98399417 | |
| 8 | 108,450,000 | 108,600,000 | 1447 | 754 | 0.652944477 | |
| 8 | 108,525,000 | 108,675,000 | 1448 | 1066 | 0.812582417 | |
| 8 | 108,600,000 | 108,750,000 | 1449 | 781 | 0.730533201 | |
| 8 | 108,675,000 | 108,825,000 | 1450 | 817 | 0.817746962 | |
| 8 | 108,750,000 | 108,900,000 | 1451 | 1413 | 0.995738461 | TLR4 |
| 8 | 108,825,000 | 108,975,000 | 1452 | 1267 | 0.986632682 | TLR4 |
| 8 | 108,900,000 | 109,050,000 | 1453 | 803 | 0.647519377 | |
| 8 | 108,975,000 | 109,125,000 | 1454 | 722 | 0.573917914 | |
| 8 | 109,050,000 | 109,200,000 | 1455 | 558 | 0.767391711 | |
| 8 | 109,125,000 | 109,275,000 | 1456 | 565 | -1.506110373 | |
| 8 | 109,200,000 | 109,350,000 | 1457 | 822 | -1.756424984 | |
| 8 | 109,275,000 | 109,425,000 | 1458 | 1114 | -0.494558241 | |
| 8 | 109,350,000 | 109,500,000 | 1459 | 1032 | 0.24746771 | |
| 8 | 109,425,000 | 109,575,000 | 1460 | 586 | 1.068297958 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 8 | 109,500,000 | 109,650,000 | 1461 | 593 | 0.935750006 | |
| 8 | 109,575,000 | 109,725,000 | 1462 | 626 | 0.263325719 | |
| 8 | 109,650,000 | 109,800,000 | 1463 | 472 | -0.369795093 | |
| 8 | 109,725,000 | 109,875,000 | 1464 | 388 | -1.196828695 | ENSBTAG00000046729 |
| 8 | 109,800,000 | 109,950,000 | 1465 | 437 | -1.930142226 | ENSBTAG00000046729 |
| 8 | 109,875,000 | 110,025,000 | 1466 | 862 | -1.60755963 | |
| 8 | 109,950,000 | 110,100,000 | 1467 | 1055 | -1.624834106 | |
| 8 | 110,025,000 | 110,175,000 | 1468 | 811 | -0.576329639 | |
| 8 | 110,100,000 | 110,250,000 | 1469 | 516 | -0.031168628 | |
| 8 | 110,175,000 | 110,325,000 | 1470 | 318 | -0.247139826 | |
| 8 | 110,250,000 | 110,400,000 | 1471 | 367 | -0.112028124 | |
| 8 | 110,325,000 | 110,475,000 | 1472 | 612 | -0.136311433 | BRINP1 |
| 8 | 110,400,000 | 110,550,000 | 1473 | 664 | 0.543512856 | BRINP1 |
| 8 | 110,475,000 | 110,625,000 | 1474 | 756 | 0.394227809 | BRINP1 |
| 8 | 110,550,000 | 110,700,000 | 1475 | 706 | 0.376275443 | BRINP1 |
| 8 | 110,625,000 | 110,775,000 | 1476 | 236 | 0.701243783 | |
| 8 | 110,700,000 | 110,850,000 | 1477 | 382 | -0.216701988 | |
| 8 | 110,775,000 | 110,925,000 | 1478 | 701 | -0.74053036 | |
| 8 | 110,850,000 | 111,000,000 | 1479 | 472 | -0.518946408 | |
| 8 | 110,925,000 | 111,075,000 | 1480 | 424 | 0.046274627 | |
| 8 | 111,000,000 | 111,150,000 | 1481 | 766 | 0.554138194 | |
| 8 | 111,075,000 | 111,225,000 | 1482 | 835 | 1.053334175 | |
| 8 | 111,150,000 | 111,300,000 | 1483 | 682 | 0.67525366 | |
| 8 | 111,225,000 | 111,375,000 | 1484 | 628 | 0.111010692 | |
| 8 | 111,300,000 | 111,450,000 | 1485 | 1078 | -0.88418564 | |
| 8 | 111,375,000 | 111,525,000 | 1486 | 1389 | -0.614628713 | |
| 8 | 111,450,000 | 111,600,000 | 1487 | 1343 | 0.648882114 | |
| 8 | 111,525,000 | 111,675,000 | 1488 | 1474 | 1.026368593 | |
| 8 | 111,600,000 | 111,750,000 | 1489 | 1433 | 0.69068753 | CDK5RAP2 |
| 8 | 111,675,000 | 111,825,000 | 1490 | 1207 | -1.026825216 | CDK5RAP2 |
| 8 | 111,750,000 | 111,900,000 | 1491 | 813 | -1.712410891 | CDK5RAP2 |
| 8 | 111,825,000 | 111,975,000 | 1492 | 538 | -0.188469922 | CDK5RAP2,MEGF9 |
| 8 | 111,900,000 | 112,050,000 | 1493 | 764 | 0.459438443 | MEGF9 |
| 8 | 111,975,000 | 112,125,000 | 1494 | 877 | 0.001033665 | FBXW2,MEGF9,PSMD5,ENSBTAG00000016957,ENSBTAG0000038486 |
| 8 | 112,050,000 | 112,200,000 | 1495 | 787 | -0.035174248 | FBXW2,PHF19,PSMD5,TRAF1,ENSBTAG00000016957,ENSBTAG00000038486 |
| 8 | 112,125,000 | 112,275,000 | 1496 | 766 | 1.13579508 | C5,PHF19,TRAF1,ENSBTAG00000016957 |
| 8 | 112,200,000 | 112,350,000 | 1497 | 986 | -0.135648951 | C5,TRAF1 |
| 8 | 112,275,000 | 112,425,000 | 1498 | 1138 | -0.417281974 | C5,CNTRL |
| 8 | 112,350,000 | 112,500,000 | 1499 | 830 | 0.747690153 | CNTRL |
| 8 | 112,425,000 | 112,575,000 | 1500 | 643 | 0.493754017 | CNTRL,RAB14 |
| 8 | 112,500,000 | 112,650,000 | 1501 | 752 | 0.370038555 | GSN,RAB14,STOM |
| 8 | 112,575,000 | 112,725,000 | 1502 | 854 | 0.705563926 | GSN,STOM |
| 8 | 112,650,000 | 112,800,000 | 1503 | 659 | 0.705113566 | DCDC2C,STOM |
| 8 | 112,725,000 | 112,875,000 | 1504 | 657 | 0.515042544 | ALLC,COLEC11,DCDC2C |
| 8 | 112,800,000 | 112,950,000 | 1505 | 745 | 0.344117107 | ADI1,ALLC,COLEC11,DCDC2C,RNASEH1,RPS7 |
| 8 | 112,875,000 | 113,025,000 | 1506 | 1019 | 0.274344702 | ADI1,COLEC11,RNASEH1,RPS7,TSSC1,TTC15 |
| 8 | 112,950,000 | 113,100,000 | 1507 | 1097 | 0.588378465 | ADI1,TSSC1,TTC15 |
| 8 | 113,025,000 | 113,175,000 | 1508 | 786 | 0.598554322 | TSSC1 |
| 8 | 113,100,000 | 113,250,000 | 1509 | 921 | -0.582880979 | |
| 8 | 113,175,000 | 113,325,000 | 1510 | 1166 | -0.840587019 | |
| 8 | 113,250,000 | 113,384,836 | 1511 | 948 | -0.461335568 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---------------------------------------|
| 9 | 0 | 150,000 | 1 | 393 | -0.393401174 | |
| 9 | 75,000 | 225,000 | 2 | 371 | -0.796770966 | |
| 9 | 150,000 | 300,000 | 3 | 339 | -1.6494384 | ENSBTAG00000036273 |
| 9 | 225,000 | 375,000 | 4 | 343 | -2.458128957 | ENSBTAG00000036273,ENSBTAG00000047687 |
| 9 | 300,000 | 450,000 | 5 | 381 | -2.830082012 | ENSBTAG00000047032,ENSBTAG00000047687 |
| 9 | 375,000 | 525,000 | 6 | 340 | -1.903159583 | PTP4A1,ENSBTAG00000047032 |
| 9 | 450,000 | 600,000 | 7 | 269 | -1.192468812 | PTP4A1 |
| 9 | 525,000 | 675,000 | 8 | 266 | -1.305260081 | PHF3 |
| 9 | 600,000 | 750,000 | 9 | 258 | -1.877055102 | PHF3 |
| 9 | 675,000 | 825,000 | 10 | 398 | -2.016925588 | PHF3 |
| 9 | 750,000 | 900,000 | 11 | 475 | -1.544119288 | |
| 9 | 825,000 | 975,000 | 12 | 363 | -0.706596508 | |
| 9 | 900,000 | 1,050,000 | 13 | 498 | -0.051654749 | |
| 9 | 975,000 | 1,125,000 | 14 | 640 | -0.493153274 | |
| 9 | 1,050,000 | 1,200,000 | 15 | 619 | -2.344175238 | |
| 9 | 1,125,000 | 1,275,000 | 16 | 771 | -1.891016822 | |
| 9 | 1,200,000 | 1,350,000 | 17 | 885 | -1.308882641 | |
| 9 | 1,275,000 | 1,425,000 | 18 | 792 | -1.194430128 | |
| 9 | 1,350,000 | 1,500,000 | 19 | 466 | -0.686050891 | |
| 9 | 1,425,000 | 1,575,000 | 20 | 231 | -2.219835324 | |
| 9 | 1,500,000 | 1,650,000 | 21 | 228 | -3.000352244 | |
| 9 | 1,575,000 | 1,725,000 | 22 | 406 | -4.456079302 | |
| 9 | 1,650,000 | 1,800,000 | 23 | 580 | -4.427070154 | |
| 9 | 1,725,000 | 1,875,000 | 24 | 624 | -2.598183713 | |
| 9 | 1,800,000 | 1,950,000 | 25 | 725 | -0.265259485 | |
| 9 | 1,875,000 | 2,025,000 | 26 | 613 | 0.740763759 | |
| 9 | 1,950,000 | 2,100,000 | 27 | 745 | 0.576836961 | |
| 9 | 2,025,000 | 2,175,000 | 28 | 832 | 0.391662028 | |
| 9 | 2,100,000 | 2,250,000 | 29 | 726 | 0.249961981 | |
| 9 | 2,175,000 | 2,325,000 | 30 | 983 | 0.73664881 | |
| 9 | 2,250,000 | 2,400,000 | 31 | 816 | 0.81159878 | |
| 9 | 2,325,000 | 2,475,000 | 32 | 472 | -0.361166293 | |
| 9 | 2,400,000 | 2,550,000 | 33 | 558 | -0.121800952 | |
| 9 | 2,475,000 | 2,625,000 | 34 | 643 | 0.54636232 | |
| 9 | 2,550,000 | 2,700,000 | 35 | 616 | 0.1919916 | |
| 9 | 2,625,000 | 2,775,000 | 36 | 675 | -0.518870826 | |
| 9 | 2,700,000 | 2,850,000 | 37 | 1150 | -0.38391788 | |
| 9 | 2,775,000 | 2,925,000 | 38 | 1773 | 0.444843067 | |
| 9 | 2,850,000 | 3,000,000 | 39 | 1245 | 0.34629605 | |
| 9 | 2,925,000 | 3,075,000 | 40 | 409 | -0.581610667 | |
| 9 | 3,000,000 | 3,150,000 | 41 | 855 | 0.963195482 | |
| 9 | 3,075,000 | 3,225,000 | 42 | 990 | 0.811975814 | |
| 9 | 3,150,000 | 3,300,000 | 43 | 666 | 0.331474154 | |
| 9 | 3,225,000 | 3,375,000 | 44 | 629 | -0.458955938 | |
| 9 | 3,300,000 | 3,450,000 | 45 | 624 | -0.685886774 | |
| 9 | 3,375,000 | 3,525,000 | 46 | 851 | -1.821144659 | |
| 9 | 3,450,000 | 3,600,000 | 47 | 1057 | -2.514055723 | |
| 9 | 3,525,000 | 3,675,000 | 48 | 1033 | -3.058221162 | |
| 9 | 3,600,000 | 3,750,000 | 49 | 1023 | -1.677388612 | |
| 9 | 3,675,000 | 3,825,000 | 50 | 852 | 0.196353036 | |
| 9 | 3,750,000 | 3,900,000 | 51 | 697 | 0.677376391 | |
| 9 | 3,825,000 | 3,975,000 | 52 | 676 | 0.81646416 | |
| 9 | 3,900,000 | 4,050,000 | 53 | 587 | -0.890281979 | |

| | | | | | |
|---|-----------|-----------|-----|------|--------------|
| 9 | 3,975,000 | 4,125,000 | 54 | 538 | -2.348810846 |
| 9 | 4,050,000 | 4,200,000 | 55 | 939 | -4.338257744 |
| 9 | 4,125,000 | 4,275,000 | 56 | 996 | -4.069770046 |
| 9 | 4,200,000 | 4,350,000 | 57 | 521 | -1.703242881 |
| 9 | 4,275,000 | 4,425,000 | 58 | 679 | -3.342449991 |
| 9 | 4,350,000 | 4,500,000 | 59 | 916 | -2.648674272 |
| 9 | 4,425,000 | 4,575,000 | 60 | 870 | -0.844082657 |
| 9 | 4,500,000 | 4,650,000 | 61 | 1183 | -0.612141119 |
| 9 | 4,575,000 | 4,725,000 | 62 | 1466 | -0.155402856 |
| 9 | 4,650,000 | 4,800,000 | 63 | 1283 | 0.449466011 |
| 9 | 4,725,000 | 4,875,000 | 64 | 1582 | -0.026501205 |
| 9 | 4,800,000 | 4,950,000 | 65 | 1730 | -0.19016387 |
| 9 | 4,875,000 | 5,025,000 | 66 | 989 | -0.411068464 |
| 9 | 4,950,000 | 5,100,000 | 67 | 1051 | 0.069891757 |
| 9 | 5,025,000 | 5,175,000 | 68 | 1868 | -0.133985509 |
| 9 | 5,100,000 | 5,250,000 | 69 | 1577 | -0.733021324 |
| 9 | 5,175,000 | 5,325,000 | 70 | 764 | -0.56952042 |
| 9 | 5,250,000 | 5,400,000 | 71 | 705 | -0.356498949 |
| 9 | 5,325,000 | 5,475,000 | 72 | 786 | -0.240079161 |
| 9 | 5,400,000 | 5,550,000 | 73 | 673 | 0.264614981 |
| 9 | 5,475,000 | 5,625,000 | 74 | 978 | 0.806699065 |
| 9 | 5,550,000 | 5,700,000 | 75 | 1060 | 0.895942931 |
| 9 | 5,625,000 | 5,775,000 | 76 | 1227 | 0.174968424 |
| 9 | 5,700,000 | 5,850,000 | 77 | 1522 | 0.429413892 |
| 9 | 5,775,000 | 5,925,000 | 78 | 1180 | -0.023399993 |
| 9 | 5,850,000 | 6,000,000 | 79 | 892 | -0.97434573 |
| 9 | 5,925,000 | 6,075,000 | 80 | 854 | -0.067114194 |
| 9 | 6,000,000 | 6,150,000 | 81 | 1055 | 0.66762617 |
| 9 | 6,075,000 | 6,225,000 | 82 | 1042 | 0.834492173 |
| 9 | 6,150,000 | 6,300,000 | 83 | 717 | -0.297769975 |
| 9 | 6,225,000 | 6,375,000 | 84 | 784 | -0.40357995 |
| 9 | 6,300,000 | 6,450,000 | 85 | 1173 | 0.688273506 |
| 9 | 6,375,000 | 6,525,000 | 86 | 1367 | 1.223910213 |
| 9 | 6,450,000 | 6,600,000 | 87 | 1013 | 1.017249385 |
| 9 | 6,525,000 | 6,675,000 | 88 | 1010 | 0.075395783 |
| 9 | 6,600,000 | 6,750,000 | 89 | 1638 | 0.396431116 |
| 9 | 6,675,000 | 6,825,000 | 90 | 1553 | 0.900112947 |
| 9 | 6,750,000 | 6,900,000 | 91 | 1076 | 0.63949198 |
| 9 | 6,825,000 | 6,975,000 | 92 | 1014 | 0.151937088 |
| 9 | 6,900,000 | 7,050,000 | 93 | 1195 | -0.281226962 |
| 9 | 6,975,000 | 7,125,000 | 94 | 849 | -0.480610773 |
| 9 | 7,050,000 | 7,200,000 | 95 | 675 | 0.054666166 |
| 9 | 7,125,000 | 7,275,000 | 96 | 1425 | -1.79343014 |
| 9 | 7,200,000 | 7,350,000 | 97 | 1623 | -1.701159318 |
| 9 | 7,275,000 | 7,425,000 | 98 | 1166 | -1.325764846 |
| 9 | 7,350,000 | 7,500,000 | 99 | 975 | -0.801744533 |
| 9 | 7,425,000 | 7,575,000 | 100 | 801 | 0.913421573 |
| 9 | 7,500,000 | 7,650,000 | 101 | 581 | 1.137254066 |
| 9 | 7,575,000 | 7,725,000 | 102 | 788 | 0.904990988 |
| 9 | 7,650,000 | 7,800,000 | 103 | 673 | 0.72124627 |
| 9 | 7,725,000 | 7,875,000 | 104 | 490 | -0.575047339 |
| 9 | 7,800,000 | 7,950,000 | 105 | 811 | -1.84426289 |
| 9 | 7,875,000 | 8,025,000 | 106 | 1209 | -0.789777331 |

BAI3

BAI3

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 9 | 7,950,000 | 8,100,000 | 107 | 1367 | -0.370886581 | BAI3 |
| 9 | 8,025,000 | 8,175,000 | 108 | 1113 | -1.399679896 | BAI3 |
| 9 | 8,100,000 | 8,250,000 | 109 | 917 | -0.066496194 | BAI3 |
| 9 | 8,175,000 | 8,325,000 | 110 | 672 | 0.781613939 | BAI3 |
| 9 | 8,250,000 | 8,400,000 | 111 | 749 | 0.281537526 | BAI3 |
| 9 | 8,325,000 | 8,475,000 | 112 | 986 | 0.553251814 | BAI3 |
| 9 | 8,400,000 | 8,550,000 | 113 | 715 | 0.299066972 | BAI3 |
| 9 | 8,475,000 | 8,625,000 | 114 | 1133 | -0.536464029 | |
| 9 | 8,550,000 | 8,700,000 | 115 | 1775 | -0.071899892 | |
| 9 | 8,625,000 | 8,775,000 | 116 | 1638 | 0.408699873 | |
| 9 | 8,700,000 | 8,850,000 | 117 | 1319 | 0.56075394 | LMBRD1 |
| 9 | 8,775,000 | 8,925,000 | 118 | 1299 | 0.81031085 | LMBRD1 |
| 9 | 8,850,000 | 9,000,000 | 119 | 1587 | 0.984860969 | LMBRD1 |
| 9 | 8,925,000 | 9,075,000 | 120 | 1393 | 0.757329444 | LMBRD1 |
| 9 | 9,000,000 | 9,150,000 | 121 | 821 | 0.52626967 | |
| 9 | 9,075,000 | 9,225,000 | 122 | 672 | 0.92456689 | |
| 9 | 9,150,000 | 9,300,000 | 123 | 925 | 0.913627662 | |
| 9 | 9,225,000 | 9,375,000 | 124 | 1035 | 1.062534956 | |
| 9 | 9,300,000 | 9,450,000 | 125 | 816 | 1.103524534 | COL19A1 |
| 9 | 9,375,000 | 9,525,000 | 126 | 819 | 0.97192231 | COL19A1,COL9A1 |
| 9 | 9,450,000 | 9,600,000 | 127 | 1064 | 0.564776602 | COL19A1,COL9A1 |
| 9 | 9,525,000 | 9,675,000 | 128 | 787 | -0.808448224 | COL9A1 |
| 9 | 9,600,000 | 9,750,000 | 129 | 515 | -0.467275586 | COL9A1,ENSBTAG00000045999 |
| 9 | 9,675,000 | 9,825,000 | 130 | 539 | -0.327295239 | FAM135A,ENSBTAG00000045999 |
| 9 | 9,750,000 | 9,900,000 | 131 | 437 | -0.762184137 | FAM135A |
| 9 | 9,825,000 | 9,975,000 | 132 | 526 | -0.621289289 | FAM135A,MGC137021,ENSBTAG00000035076 |
| 9 | 9,900,000 | 10,050,000 | 133 | 488 | 0.195562886 | MGC137021,SMAP1,ENSBTAG00000035076 |
| 9 | 9,975,000 | 10,125,000 | 134 | 484 | 0.967051858 | SMAP1 |
| 9 | 10,050,000 | 10,200,000 | 135 | 489 | 0.876101339 | SMAP1 |
| 9 | 10,125,000 | 10,275,000 | 136 | 470 | 0.864737496 | B3GAT2,SMAP1 |
| 9 | 10,200,000 | 10,350,000 | 137 | 759 | 0.955418855 | B3GAT2,SMAP1 |
| 9 | 10,275,000 | 10,425,000 | 138 | 1064 | 0.897439088 | B3GAT2 |
| 9 | 10,350,000 | 10,500,000 | 139 | 1128 | 0.256554134 | |
| 9 | 10,425,000 | 10,575,000 | 140 | 1103 | -0.610926542 | |
| 9 | 10,500,000 | 10,650,000 | 141 | 997 | 0.165638118 | OGFRL1 |
| 9 | 10,575,000 | 10,725,000 | 142 | 626 | 0.55685774 | OGFRL1 |
| 9 | 10,650,000 | 10,800,000 | 143 | 361 | -0.315176742 | |
| 9 | 10,725,000 | 10,875,000 | 144 | 654 | 0.237185426 | |
| 9 | 10,800,000 | 10,950,000 | 145 | 1129 | 0.96136866 | |
| 9 | 10,875,000 | 11,025,000 | 146 | 1186 | -0.381076072 | |
| 9 | 10,950,000 | 11,100,000 | 147 | 1096 | -1.175902346 | |
| 9 | 11,025,000 | 11,175,000 | 148 | 1254 | 0.326173462 | |
| 9 | 11,100,000 | 11,250,000 | 149 | 1124 | 0.639602014 | |
| 9 | 11,175,000 | 11,325,000 | 150 | 703 | -1.007088805 | |
| 9 | 11,250,000 | 11,400,000 | 151 | 521 | -1.048098628 | |
| 9 | 11,325,000 | 11,475,000 | 152 | 521 | -0.302751631 | |
| 9 | 11,400,000 | 11,550,000 | 153 | 466 | -0.098078198 | |
| 9 | 11,475,000 | 11,625,000 | 154 | 546 | 0.373208643 | |
| 9 | 11,550,000 | 11,700,000 | 155 | 941 | 0.48696346 | RIMS1 |
| 9 | 11,625,000 | 11,775,000 | 156 | 1146 | -0.137979941 | RIMS1 |
| 9 | 11,700,000 | 11,850,000 | 157 | 1046 | -0.127331759 | RIMS1 |
| 9 | 11,775,000 | 11,925,000 | 158 | 745 | 0.348480559 | RIMS1 |
| 9 | 11,850,000 | 12,000,000 | 159 | 581 | -0.213813122 | RIMS1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------------|
| 9 | 11,925,000 | 12,075,000 | 160 | 580 | -0.71119519 | RIMS1 |
| 9 | 12,000,000 | 12,150,000 | 161 | 479 | -1.34346884 | |
| 9 | 12,075,000 | 12,225,000 | 162 | 790 | -0.230102966 | |
| 9 | 12,150,000 | 12,300,000 | 163 | 820 | 0.138732939 | |
| 9 | 12,225,000 | 12,375,000 | 164 | 396 | -0.679933312 | |
| 9 | 12,300,000 | 12,450,000 | 165 | 394 | -0.131358239 | |
| 9 | 12,375,000 | 12,525,000 | 166 | 587 | 0.422258557 | |
| 9 | 12,450,000 | 12,600,000 | 167 | 777 | 0.574947514 | |
| 9 | 12,525,000 | 12,675,000 | 168 | 1137 | 0.220795652 | |
| 9 | 12,600,000 | 12,750,000 | 169 | 1347 | 0.281728146 | KCNQ5 |
| 9 | 12,675,000 | 12,825,000 | 170 | 987 | 0.233529016 | KCNQ5 |
| 9 | 12,750,000 | 12,900,000 | 171 | 1006 | 0.259076134 | KCNQ5 |
| 9 | 12,825,000 | 12,975,000 | 172 | 1083 | 0.632504912 | KCNQ5,KHDC3L |
| 9 | 12,900,000 | 13,050,000 | 173 | 615 | 0.749316269 | DDX43,KHDC3L,OOEP |
| 9 | 12,975,000 | 13,125,000 | 174 | 738 | -0.590262966 | DDX43,OOEP |
| 9 | 13,050,000 | 13,200,000 | 175 | 766 | -1.003944257 | MB21D1,MTO1 |
| 9 | 13,125,000 | 13,275,000 | 176 | 432 | -0.335597218 | EEF1A1,MB21D1,MTO1 |
| 9 | 13,200,000 | 13,350,000 | 177 | 574 | -0.456974324 | EEF1A1,MTO1,SLC17A5 |
| 9 | 13,275,000 | 13,425,000 | 178 | 509 | -0.451375488 | CD109,SLC17A5 |
| 9 | 13,350,000 | 13,500,000 | 179 | 533 | -1.053576174 | CD109,SLC17A5 |
| 9 | 13,425,000 | 13,575,000 | 180 | 827 | -0.528462965 | CD109 |
| 9 | 13,500,000 | 13,650,000 | 181 | 931 | 0.618788632 | CD109 |
| 9 | 13,575,000 | 13,725,000 | 182 | 843 | 0.47440898 | |
| 9 | 13,650,000 | 13,800,000 | 183 | 958 | -0.739547947 | |
| 9 | 13,725,000 | 13,875,000 | 184 | 892 | -0.69624039 | |
| 9 | 13,800,000 | 13,950,000 | 185 | 970 | 0.664326045 | |
| 9 | 13,875,000 | 14,025,000 | 186 | 978 | 0.510762924 | |
| 9 | 13,950,000 | 14,100,000 | 187 | 587 | -0.782922821 | |
| 9 | 14,025,000 | 14,175,000 | 188 | 701 | -2.467219026 | |
| 9 | 14,100,000 | 14,250,000 | 189 | 965 | -2.228788589 | |
| 9 | 14,175,000 | 14,325,000 | 190 | 1245 | -0.125346612 | |
| 9 | 14,250,000 | 14,400,000 | 191 | 1009 | 0.862853426 | |
| 9 | 14,325,000 | 14,475,000 | 192 | 768 | 0.892621058 | |
| 9 | 14,400,000 | 14,550,000 | 193 | 767 | 0.998814136 | |
| 9 | 14,475,000 | 14,625,000 | 194 | 486 | 0.724914064 | |
| 9 | 14,550,000 | 14,700,000 | 195 | 521 | -0.204512983 | |
| 9 | 14,625,000 | 14,775,000 | 196 | 608 | -0.466038999 | |
| 9 | 14,700,000 | 14,850,000 | 197 | 513 | -0.841774951 | |
| 9 | 14,775,000 | 14,925,000 | 198 | 525 | -0.121210043 | COL12A1 |
| 9 | 14,850,000 | 15,000,000 | 199 | 662 | 1.107834735 | COL12A1 |
| 9 | 14,925,000 | 15,075,000 | 200 | 987 | 1.253929603 | COL12A1,COX7A2,TMEM30A |
| 9 | 15,000,000 | 15,150,000 | 201 | 815 | 1.154403273 | COX7A2,FILIP1,TMEM30A |
| 9 | 15,075,000 | 15,225,000 | 202 | 647 | 0.794682629 | FILIP1,TMEM30A |
| 9 | 15,150,000 | 15,300,000 | 203 | 797 | 0.436385147 | FILIP1 |
| 9 | 15,225,000 | 15,375,000 | 204 | 1020 | 0.198409367 | FILIP1 |
| 9 | 15,300,000 | 15,450,000 | 205 | 1333 | -0.239385401 | ENSBTAG00000032382 |
| 9 | 15,375,000 | 15,525,000 | 206 | 887 | -0.91447221 | SENPA6,ENSBTAG00000032382 |
| 9 | 15,450,000 | 15,600,000 | 207 | 409 | -1.817482242 | SENPA6 |
| 9 | 15,525,000 | 15,675,000 | 208 | 818 | -1.66504934 | MYO6,SENPA6 |
| 9 | 15,600,000 | 15,750,000 | 209 | 1528 | -0.544400462 | MYO6 |
| 9 | 15,675,000 | 15,825,000 | 210 | 1617 | -0.209028588 | MYO6,ENSBTAG00000045726 |
| 9 | 15,750,000 | 15,900,000 | 211 | 1537 | -0.714747892 | IMPG1,MYO6,ENSBTAG00000045726 |
| 9 | 15,825,000 | 15,975,000 | 212 | 1428 | 0.086373324 | IMPG1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 15,900,000 | 16,050,000 | 213 | 1194 | 0.3978117 | |
| 9 | 15,975,000 | 16,125,000 | 214 | 1368 | -0.055567079 | |
| 9 | 16,050,000 | 16,200,000 | 215 | 1719 | -0.2046366 | |
| 9 | 16,125,000 | 16,275,000 | 216 | 1698 | -0.373255047 | |
| 9 | 16,200,000 | 16,350,000 | 217 | 1513 | -0.304874703 | ENSBTAG00000016391 |
| 9 | 16,275,000 | 16,425,000 | 218 | 1431 | -0.042598116 | ENSBTAG00000016391 |
| 9 | 16,350,000 | 16,500,000 | 219 | 1091 | -0.649358736 | |
| 9 | 16,425,000 | 16,575,000 | 220 | 754 | -1.148762607 | |
| 9 | 16,500,000 | 16,650,000 | 221 | 821 | 0.617358754 | |
| 9 | 16,575,000 | 16,725,000 | 222 | 853 | 0.838127092 | |
| 9 | 16,650,000 | 16,800,000 | 223 | 1023 | -0.166391894 | |
| 9 | 16,725,000 | 16,875,000 | 224 | 1160 | -0.655588146 | |
| 9 | 16,800,000 | 16,950,000 | 225 | 1375 | 0.412896124 | |
| 9 | 16,875,000 | 17,025,000 | 226 | 1494 | 0.054031893 | |
| 9 | 16,950,000 | 17,100,000 | 227 | 1021 | -0.536410822 | |
| 9 | 17,025,000 | 17,175,000 | 228 | 886 | -0.217516452 | |
| 9 | 17,100,000 | 17,250,000 | 229 | 1078 | 0.595754861 | |
| 9 | 17,175,000 | 17,325,000 | 230 | 844 | 1.073793006 | HTR1B |
| 9 | 17,250,000 | 17,400,000 | 231 | 454 | 0.715072913 | HTR1B |
| 9 | 17,325,000 | 17,475,000 | 232 | 631 | 0.366379195 | |
| 9 | 17,400,000 | 17,550,000 | 233 | 687 | 0.278019924 | |
| 9 | 17,475,000 | 17,625,000 | 234 | 795 | 1.008804843 | |
| 9 | 17,550,000 | 17,700,000 | 235 | 1207 | 1.138552921 | |
| 9 | 17,625,000 | 17,775,000 | 236 | 1094 | 0.78701464 | |
| 9 | 17,700,000 | 17,850,000 | 237 | 1366 | 0.832811831 | |
| 9 | 17,775,000 | 17,925,000 | 238 | 1733 | 0.985796929 | |
| 9 | 17,850,000 | 18,000,000 | 239 | 1598 | 0.830585914 | |
| 9 | 17,925,000 | 18,075,000 | 240 | 1466 | 0.938636464 | |
| 9 | 18,000,000 | 18,150,000 | 241 | 1464 | 1.238343297 | |
| 9 | 18,075,000 | 18,225,000 | 242 | 1049 | 1.243633654 | |
| 9 | 18,150,000 | 18,300,000 | 243 | 869 | 0.709433228 | |
| 9 | 18,225,000 | 18,375,000 | 244 | 1020 | 0.152028236 | |
| 9 | 18,300,000 | 18,450,000 | 245 | 1031 | -0.156456615 | |
| 9 | 18,375,000 | 18,525,000 | 246 | 1076 | 0.199776775 | |
| 9 | 18,450,000 | 18,600,000 | 247 | 601 | 0.098400903 | |
| 9 | 18,525,000 | 18,675,000 | 248 | 506 | -0.171151814 | |
| 9 | 18,600,000 | 18,750,000 | 249 | 611 | -0.263731985 | IRAK1BP1,PHIP |
| 9 | 18,675,000 | 18,825,000 | 250 | 518 | -0.086858414 | IRAK1BP1,PHIP |
| 9 | 18,750,000 | 18,900,000 | 251 | 539 | -0.083532128 | PHIP |
| 9 | 18,825,000 | 18,975,000 | 252 | 610 | 0.057995406 | PHIP |
| 9 | 18,900,000 | 19,050,000 | 253 | 724 | 0.099450306 | HMG3 |
| 9 | 18,975,000 | 19,125,000 | 254 | 1093 | 0.144164879 | HMG3 |
| 9 | 19,050,000 | 19,200,000 | 255 | 1168 | 0.303421616 | |
| 9 | 19,125,000 | 19,275,000 | 256 | 695 | -0.448154307 | |
| 9 | 19,200,000 | 19,350,000 | 257 | 588 | -0.30723369 | LCA5 |
| 9 | 19,275,000 | 19,425,000 | 258 | 899 | 0.487593227 | LCA5 |
| 9 | 19,350,000 | 19,500,000 | 259 | 724 | 0.281075094 | LCA5 |
| 9 | 19,425,000 | 19,575,000 | 260 | 548 | -1.137896669 | SH3BGRL2 |
| 9 | 19,500,000 | 19,650,000 | 261 | 547 | -1.532668024 | SH3BGRL2 |
| 9 | 19,575,000 | 19,725,000 | 262 | 689 | 0.636094775 | |
| 9 | 19,650,000 | 19,800,000 | 263 | 693 | 0.994038233 | |
| 9 | 19,725,000 | 19,875,000 | 264 | 360 | 1.161928059 | ELOVL4 |
| 9 | 19,800,000 | 19,950,000 | 265 | 478 | 0.691793303 | ELOVL4,TTK |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 19,875,000 | 20,025,000 | 266 | 410 | -0.179869244 | ELOVL4,TTK |
| 9 | 19,950,000 | 20,100,000 | 267 | 195 | -0.936650975 | BCKDHB,RPA3OS,TTK |
| 9 | 20,025,000 | 20,175,000 | 268 | 395 | -1.248965157 | BCKDHB,RPA3OS |
| 9 | 20,100,000 | 20,250,000 | 269 | 425 | -2.91685338 | BCKDHB |
| 9 | 20,175,000 | 20,325,000 | 270 | 353 | -4.389555371 | BCKDHB |
| 9 | 20,250,000 | 20,400,000 | 271 | 484 | -3.488842698 | BCKDHB |
| 9 | 20,325,000 | 20,475,000 | 272 | 614 | -2.968541571 | BCKDHB |
| 9 | 20,400,000 | 20,550,000 | 273 | 446 | -3.146669399 | |
| 9 | 20,475,000 | 20,625,000 | 274 | 232 | -3.442627752 | |
| 9 | 20,550,000 | 20,700,000 | 275 | 318 | -3.809028867 | |
| 9 | 20,625,000 | 20,775,000 | 276 | 678 | -2.928026381 | |
| 9 | 20,700,000 | 20,850,000 | 277 | 618 | -1.972015466 | |
| 9 | 20,775,000 | 20,925,000 | 278 | 307 | -3.050292459 | |
| 9 | 20,850,000 | 21,000,000 | 279 | 481 | -2.27591455 | |
| 9 | 20,925,000 | 21,075,000 | 280 | 887 | 0.355740296 | |
| 9 | 21,000,000 | 21,150,000 | 281 | 726 | 0.537461462 | |
| 9 | 21,075,000 | 21,225,000 | 282 | 361 | 0.108017992 | |
| 9 | 21,150,000 | 21,300,000 | 283 | 400 | -0.379638797 | |
| 9 | 21,225,000 | 21,375,000 | 284 | 438 | -0.330600202 | |
| 9 | 21,300,000 | 21,450,000 | 285 | 397 | 0.310524447 | |
| 9 | 21,375,000 | 21,525,000 | 286 | 335 | -0.147624009 | |
| 9 | 21,450,000 | 21,600,000 | 287 | 381 | 0.297962258 | |
| 9 | 21,525,000 | 21,675,000 | 288 | 671 | 0.685761376 | |
| 9 | 21,600,000 | 21,750,000 | 289 | 786 | -1.666735937 | |
| 9 | 21,675,000 | 21,825,000 | 290 | 453 | -4.875529523 | FAM46A |
| 9 | 21,750,000 | 21,900,000 | 291 | 333 | -4.399138547 | FAM46A |
| 9 | 21,825,000 | 21,975,000 | 292 | 355 | -2.479508052 | |
| 9 | 21,900,000 | 22,050,000 | 293 | 417 | -0.326813643 | |
| 9 | 21,975,000 | 22,125,000 | 294 | 381 | -0.448864122 | |
| 9 | 22,050,000 | 22,200,000 | 295 | 525 | 0.462588071 | |
| 9 | 22,125,000 | 22,275,000 | 296 | 767 | -0.109696936 | IBTK |
| 9 | 22,200,000 | 22,350,000 | 297 | 698 | -0.828768741 | IBTK |
| 9 | 22,275,000 | 22,425,000 | 298 | 1020 | -0.09732997 | IBTK |
| 9 | 22,350,000 | 22,500,000 | 299 | 933 | -0.034289974 | TPBG |
| 9 | 22,425,000 | 22,575,000 | 300 | 336 | 0.361765439 | TPBG |
| 9 | 22,500,000 | 22,650,000 | 301 | 615 | 1.158877739 | |
| 9 | 22,575,000 | 22,725,000 | 302 | 775 | 1.118000417 | |
| 9 | 22,650,000 | 22,800,000 | 303 | 678 | -0.351016419 | |
| 9 | 22,725,000 | 22,875,000 | 304 | 915 | -0.198092255 | |
| 9 | 22,800,000 | 22,950,000 | 305 | 979 | 0.36724741 | |
| 9 | 22,875,000 | 23,025,000 | 306 | 772 | 0.46094119 | |
| 9 | 22,950,000 | 23,100,000 | 307 | 421 | 0.327469828 | UBE3D |
| 9 | 23,025,000 | 23,175,000 | 308 | 225 | 0.335493855 | UBE3D |
| 9 | 23,100,000 | 23,250,000 | 309 | 281 | 0.946033727 | UBE3D |
| 9 | 23,175,000 | 23,325,000 | 310 | 327 | 0.591038377 | DOPEY1,UBE3D |
| 9 | 23,250,000 | 23,400,000 | 311 | 486 | 0.373349693 | DOPEY1,PGM3,RWDD2A |
| 9 | 23,325,000 | 23,475,000 | 312 | 788 | -0.362281099 | DOPEY1,ME1,PGM3,RWDD2A |
| 9 | 23,400,000 | 23,550,000 | 313 | 797 | -1.006592659 | ME1 |
| 9 | 23,475,000 | 23,625,000 | 314 | 764 | 0.001562989 | ME1 |
| 9 | 23,550,000 | 23,700,000 | 315 | 692 | 0.948408173 | ME1 |
| 9 | 23,625,000 | 23,775,000 | 316 | 955 | 0.763884764 | PRSS35,SNAP91 |
| 9 | 23,700,000 | 23,850,000 | 317 | 951 | 0.451315322 | PRSS35,SNAP91,ENSBTAG00000046593,ENSBTAG00000047118 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 23,775,000 | 23,925,000 | 318 | 626 | -0.213864619 | SNAP91,ENSBTAG00000046593,ENSBTAG00000047118 |
| 9 | 23,850,000 | 24,000,000 | 319 | 797 | 0.256476567 | SNAP91 |
| 9 | 23,925,000 | 24,075,000 | 320 | 705 | 0.694424911 | C6orf58,ENSBTAG00000003921 |
| 9 | 24,000,000 | 24,150,000 | 321 | 715 | 0.949503813 | C6orf58,KIAA0408,ENSBTAG00000003921 |
| 9 | 24,075,000 | 24,225,000 | 322 | 888 | 0.823211986 | KIAA0408,ENSBTAG00000003921 |
| 9 | 24,150,000 | 24,300,000 | 323 | 657 | 0.533457036 | ECHDC1,RNF146B |
| 9 | 24,225,000 | 24,375,000 | 324 | 616 | -0.486019105 | ECHDC1,RNF146B,RSPO3 |
| 9 | 24,300,000 | 24,450,000 | 325 | 552 | -1.042616802 | RNF146B,RSPO3 |
| 9 | 24,375,000 | 24,525,000 | 326 | 411 | -1.881037191 | RSPO3 |
| 9 | 24,450,000 | 24,600,000 | 327 | 692 | -0.516242952 | LAPTM4B,RSPO3 |
| 9 | 24,525,000 | 24,675,000 | 328 | 716 | 0.52147391 | LAPTM4B |
| 9 | 24,600,000 | 24,750,000 | 329 | 535 | 0.382209576 | |
| 9 | 24,675,000 | 24,825,000 | 330 | 481 | 0.151027981 | |
| 9 | 24,750,000 | 24,900,000 | 331 | 388 | -0.035018367 | |
| 9 | 24,825,000 | 24,975,000 | 332 | 540 | 0.344542486 | |
| 9 | 24,900,000 | 25,050,000 | 333 | 874 | 0.223505057 | |
| 9 | 24,975,000 | 25,125,000 | 334 | 756 | 0.092641903 | |
| 9 | 25,050,000 | 25,200,000 | 335 | 440 | 0.078172719 | |
| 9 | 25,125,000 | 25,275,000 | 336 | 362 | -0.073137236 | C6ORF173 |
| 9 | 25,200,000 | 25,350,000 | 337 | 456 | -1.696813048 | C6ORF173 |
| 9 | 25,275,000 | 25,425,000 | 338 | 433 | -2.167602011 | C6ORF173 |
| 9 | 25,350,000 | 25,500,000 | 339 | 470 | -1.195952648 | |
| 9 | 25,425,000 | 25,575,000 | 340 | 456 | -0.862739404 | |
| 9 | 25,500,000 | 25,650,000 | 341 | 258 | -0.044337503 | HINT3,TRMT11 |
| 9 | 25,575,000 | 25,725,000 | 342 | 405 | 0.108438739 | HINT3,NCOA7,TRMT11,ENSBTAG00000046503 |
| 9 | 25,650,000 | 25,800,000 | 343 | 813 | -0.559670798 | HINT3,NCOA7,ENSBTAG00000046503 |
| 9 | 25,725,000 | 25,875,000 | 344 | 1165 | -0.233901755 | HEY2,ENSBTAG00000046503 |
| 9 | 25,800,000 | 25,950,000 | 345 | 922 | 0.531441003 | HEY2 |
| 9 | 25,875,000 | 26,025,000 | 346 | 537 | 0.624423055 | HEY2 |
| 9 | 25,950,000 | 26,100,000 | 347 | 479 | 0.75005956 | |
| 9 | 26,025,000 | 26,175,000 | 348 | 598 | 0.330792231 | |
| 9 | 26,100,000 | 26,250,000 | 349 | 591 | 0.413279265 | |
| 9 | 26,175,000 | 26,325,000 | 350 | 562 | 1.12005306 | HDCC2,TPD52L1 |
| 9 | 26,250,000 | 26,400,000 | 351 | 1186 | 1.146613257 | HDCC2,TPD52L1 |
| 9 | 26,325,000 | 26,475,000 | 352 | 1348 | 0.960318483 | RNF217,TPD52L1 |
| 9 | 26,400,000 | 26,550,000 | 353 | 1063 | 1.019968006 | RNF217,TPD52L1 |
| 9 | 26,475,000 | 26,625,000 | 354 | 862 | 0.99187837 | RNF217 |
| 9 | 26,550,000 | 26,700,000 | 355 | 619 | 0.436194952 | ENSBTAG00000021667 |
| 9 | 26,625,000 | 26,775,000 | 356 | 944 | 0.688502831 | ENSBTAG00000021667 |
| 9 | 26,700,000 | 26,850,000 | 357 | 1028 | 0.860970875 | ENSBTAG00000021667 |
| 9 | 26,775,000 | 26,925,000 | 358 | 830 | 0.911836397 | ENSBTAG00000021667 |
| 9 | 26,850,000 | 27,000,000 | 359 | 905 | 1.005575924 | ENSBTAG00000021667 |
| 9 | 26,925,000 | 27,075,000 | 360 | 863 | 0.959851814 | |
| 9 | 27,000,000 | 27,150,000 | 361 | 766 | 0.861218546 | |
| 9 | 27,075,000 | 27,225,000 | 362 | 701 | 0.932727718 | |
| 9 | 27,150,000 | 27,300,000 | 363 | 576 | 0.817620581 | ENSBTAG00000033195 |
| 9 | 27,225,000 | 27,375,000 | 364 | 442 | 0.222052787 | ENSBTAG00000033195 |
| 9 | 27,300,000 | 27,450,000 | 365 | 480 | 0.413587182 | ENSBTAG00000033195 |
| 9 | 27,375,000 | 27,525,000 | 366 | 817 | 0.724088972 | |
| 9 | 27,450,000 | 27,600,000 | 367 | 1185 | 0.732379336 | |
| 9 | 27,525,000 | 27,675,000 | 368 | 1105 | 0.765836625 | ENSBTAG00000047309 |
| 9 | 27,600,000 | 27,750,000 | 369 | 993 | 0.597213074 | ENSBTAG00000047309 |
| 9 | 27,675,000 | 27,825,000 | 370 | 926 | 0.632968801 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 9 | 27,750,000 | 27,900,000 | 371 | 933 | 0.957161589 | |
| 9 | 27,825,000 | 27,975,000 | 372 | 942 | 0.47277932 | |
| 9 | 27,900,000 | 28,050,000 | 373 | 822 | -0.016239102 | |
| 9 | 27,975,000 | 28,125,000 | 374 | 833 | 0.45312481 | TRDN |
| 9 | 28,050,000 | 28,200,000 | 375 | 888 | 0.237978788 | TRDN |
| 9 | 28,125,000 | 28,275,000 | 376 | 1154 | -0.837790509 | TRDN |
| 9 | 28,200,000 | 28,350,000 | 377 | 1083 | -0.393451085 | TRDN |
| 9 | 28,275,000 | 28,425,000 | 378 | 779 | -0.076920115 | |
| 9 | 28,350,000 | 28,500,000 | 379 | 452 | -1.500833183 | |
| 9 | 28,425,000 | 28,575,000 | 380 | 289 | -3.51019788 | ENSBTAG00000046232 |
| 9 | 28,500,000 | 28,650,000 | 381 | 309 | -3.577782139 | CLVS2,ENSBTAG00000046232 |
| 9 | 28,575,000 | 28,725,000 | 382 | 521 | -0.383995286 | CLVS2 |
| 9 | 28,650,000 | 28,800,000 | 383 | 739 | 0.188892216 | CLVS2 |
| 9 | 28,725,000 | 28,875,000 | 384 | 498 | 0.332261952 | FABP7,SMPDL3A |
| 9 | 28,800,000 | 28,950,000 | 385 | 557 | -1.17692086 | FABP7,PKIB,SMPDL3A |
| 9 | 28,875,000 | 29,025,000 | 386 | 797 | -0.509833398 | PKIB |
| 9 | 28,950,000 | 29,100,000 | 387 | 799 | 0.081185294 | PKIB,SERINC1 |
| 9 | 29,025,000 | 29,175,000 | 388 | 586 | -0.679771576 | HSF2,SERINC1 |
| 9 | 29,100,000 | 29,250,000 | 389 | 407 | -0.591291879 | HSF2,SERINC1 |
| 9 | 29,175,000 | 29,325,000 | 390 | 676 | 0.499684015 | |
| 9 | 29,250,000 | 29,400,000 | 391 | 864 | 1.102124814 | |
| 9 | 29,325,000 | 29,475,000 | 392 | 667 | 1.01031399 | |
| 9 | 29,400,000 | 29,550,000 | 393 | 550 | 0.717724008 | |
| 9 | 29,475,000 | 29,625,000 | 394 | 933 | 1.092368043 | |
| 9 | 29,550,000 | 29,700,000 | 395 | 1155 | 1.081383359 | |
| 9 | 29,625,000 | 29,775,000 | 396 | 784 | 0.349638507 | ENSBTAG00000011735 |
| 9 | 29,700,000 | 29,850,000 | 397 | 607 | -0.518998824 | ENSBTAG00000011735 |
| 9 | 29,775,000 | 29,925,000 | 398 | 760 | 0.289746627 | |
| 9 | 29,850,000 | 30,000,000 | 399 | 812 | 0.450018433 | |
| 9 | 29,925,000 | 30,075,000 | 400 | 683 | 0.177939456 | |
| 9 | 30,000,000 | 30,150,000 | 401 | 510 | -0.254901912 | GJA1 |
| 9 | 30,075,000 | 30,225,000 | 402 | 612 | -0.662780194 | GJA1,TBC1D32 |
| 9 | 30,150,000 | 30,300,000 | 403 | 1013 | -1.044205851 | TBC1D32 |
| 9 | 30,225,000 | 30,375,000 | 404 | 798 | -0.937738401 | TBC1D32 |
| 9 | 30,300,000 | 30,450,000 | 405 | 575 | 0.951448321 | TBC1D32 |
| 9 | 30,375,000 | 30,525,000 | 406 | 1073 | 0.813343814 | TBC1D32 |
| 9 | 30,450,000 | 30,600,000 | 407 | 1315 | 0.554626004 | |
| 9 | 30,525,000 | 30,675,000 | 408 | 1167 | -0.604625114 | |
| 9 | 30,600,000 | 30,750,000 | 409 | 852 | -0.981340241 | |
| 9 | 30,675,000 | 30,825,000 | 410 | 505 | -0.622646578 | |
| 9 | 30,750,000 | 30,900,000 | 411 | 603 | -1.796144821 | |
| 9 | 30,825,000 | 30,975,000 | 412 | 888 | -0.915585391 | |
| 9 | 30,900,000 | 31,050,000 | 413 | 982 | 0.258229778 | |
| 9 | 30,975,000 | 31,125,000 | 414 | 1015 | -1.716333252 | |
| 9 | 31,050,000 | 31,200,000 | 415 | 1089 | -1.269048789 | |
| 9 | 31,125,000 | 31,275,000 | 416 | 1131 | 0.197194306 | |
| 9 | 31,200,000 | 31,350,000 | 417 | 756 | -0.607064234 | |
| 9 | 31,275,000 | 31,425,000 | 418 | 622 | -2.659571815 | |
| 9 | 31,350,000 | 31,500,000 | 419 | 557 | -2.595975151 | |
| 9 | 31,425,000 | 31,575,000 | 420 | 290 | -0.743491931 | |
| 9 | 31,500,000 | 31,650,000 | 421 | 294 | -0.443657425 | |
| 9 | 31,575,000 | 31,725,000 | 422 | 301 | -0.048370891 | |
| 9 | 31,650,000 | 31,800,000 | 423 | 468 | 0.647396922 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 31,725,000 | 31,875,000 | 424 | 679 | 0.887345612 | |
| 9 | 31,800,000 | 31,950,000 | 425 | 1154 | 0.652486583 | |
| 9 | 31,875,000 | 32,025,000 | 426 | 1608 | 0.775132291 | |
| 9 | 31,950,000 | 32,100,000 | 427 | 1467 | 0.884284108 | MAN1A1 |
| 9 | 32,025,000 | 32,175,000 | 428 | 1135 | 0.89842567 | MAN1A1 |
| 9 | 32,100,000 | 32,250,000 | 429 | 1139 | 0.858832901 | MAN1A1 |
| 9 | 32,175,000 | 32,325,000 | 430 | 1480 | 0.817651257 | MAN1A1 |
| 9 | 32,250,000 | 32,400,000 | 431 | 1748 | 0.472889744 | MAN1A1 |
| 9 | 32,325,000 | 32,475,000 | 432 | 1709 | -0.338334828 | FAM184A |
| 9 | 32,400,000 | 32,550,000 | 433 | 1026 | -0.783333414 | ASF1A,FAM184A,MCM9 |
| 9 | 32,475,000 | 32,625,000 | 434 | 396 | -0.080711411 | ASF1A,FAM184A,MCM9 |
| 9 | 32,550,000 | 32,700,000 | 435 | 620 | 0.352933179 | ASF1A,MCM9 |
| 9 | 32,625,000 | 32,775,000 | 436 | 580 | 0.304457072 | |
| 9 | 32,700,000 | 32,850,000 | 437 | 308 | -1.615315054 | CEP85L,PLN,ENSBTAG00000047280 |
| 9 | 32,775,000 | 32,925,000 | 438 | 290 | -2.050086424 | CEP85L,PLN,ENSBTAG00000047280 |
| 9 | 32,850,000 | 33,000,000 | 439 | 371 | 0.671418539 | CEP85L |
| 9 | 32,925,000 | 33,075,000 | 440 | 669 | -0.074806939 | SLC35F1 |
| 9 | 33,000,000 | 33,150,000 | 441 | 798 | -0.688177837 | SLC35F1 |
| 9 | 33,075,000 | 33,225,000 | 442 | 974 | -0.135478518 | SLC35F1 |
| 9 | 33,150,000 | 33,300,000 | 443 | 1011 | 0.485742821 | |
| 9 | 33,225,000 | 33,375,000 | 444 | 874 | 0.792964836 | |
| 9 | 33,300,000 | 33,450,000 | 445 | 808 | 0.935168541 | |
| 9 | 33,375,000 | 33,525,000 | 446 | 704 | 0.852990619 | |
| 9 | 33,450,000 | 33,600,000 | 447 | 634 | 0.930496948 | NEPN,NUS1 |
| 9 | 33,525,000 | 33,675,000 | 448 | 484 | 0.72874924 | GOPC,NEPN,NUS1 |
| 9 | 33,600,000 | 33,750,000 | 449 | 615 | 0.58981358 | DCBLD1,GOPC,NEPN |
| 9 | 33,675,000 | 33,825,000 | 450 | 691 | 0.679889787 | DCBLD1,ROS1 |
| 9 | 33,750,000 | 33,900,000 | 451 | 580 | 0.755346451 | ROS1 |
| 9 | 33,825,000 | 33,975,000 | 452 | 477 | 0.744871162 | ROS1,VGLL2 |
| 9 | 33,900,000 | 34,050,000 | 453 | 308 | 0.73239242 | ROS1,VGLL2 |
| 9 | 33,975,000 | 34,125,000 | 454 | 360 | 0.805736053 | |
| 9 | 34,050,000 | 34,200,000 | 455 | 451 | -0.008423334 | RFX6 |
| 9 | 34,125,000 | 34,275,000 | 456 | 554 | -0.280861043 | RFX6 |
| 9 | 34,200,000 | 34,350,000 | 457 | 732 | 0.448875439 | FAM162B,KPNA5,RFX6 |
| 9 | 34,275,000 | 34,425,000 | 458 | 870 | 0.5700646 | FAM162B,KPNA5,RSPH4A,TMEM230,ZUFSP |
| 9 | 34,350,000 | 34,500,000 | 459 | 896 | -0.262750661 | KPNA5,RSPH4A,TMEM230,ZUFSP |
| 9 | 34,425,000 | 34,575,000 | 460 | 892 | -0.635942618 | SULT1C4 |
| 9 | 34,500,000 | 34,650,000 | 461 | 886 | -1.298147578 | FAM26D,RWDD1,SULT1C4,TRAPPC3L |
| 9 | 34,575,000 | 34,725,000 | 462 | 711 | -1.518573859 | DSE,FAM26D,FAM26E,FAM26F,RWDD1,TRAPPC3L |
| 9 | 34,650,000 | 34,800,000 | 463 | 519 | -0.04250512 | DSE,FAM26E,FAM26F,TRAPPC3L |
| 9 | 34,725,000 | 34,875,000 | 464 | 393 | 0.624712737 | DSE,TSPYL1 |
| 9 | 34,800,000 | 34,950,000 | 465 | 323 | -0.037733634 | NT5DC1,TSPYL1,TSPYL4 |
| 9 | 34,875,000 | 35,025,000 | 466 | 408 | 0.226827655 | COL10A1,NT5DC1,TSPYL1,TSPYL4 |
| 9 | 34,950,000 | 35,100,000 | 467 | 410 | 0.313919629 | COL10A1,FRK,NT5DC1 |
| 9 | 35,025,000 | 35,175,000 | 468 | 371 | 0.021117585 | FRK |
| 9 | 35,100,000 | 35,250,000 | 469 | 350 | 0.169453315 | FRK |
| 9 | 35,175,000 | 35,325,000 | 470 | 479 | -0.461763832 | |
| 9 | 35,250,000 | 35,400,000 | 471 | 935 | -0.144560462 | |
| 9 | 35,325,000 | 35,475,000 | 472 | 928 | 0.39839425 | |
| 9 | 35,400,000 | 35,550,000 | 473 | 883 | 0.892045958 | |
| 9 | 35,475,000 | 35,625,000 | 474 | 1239 | 0.823555517 | |
| 9 | 35,550,000 | 35,700,000 | 475 | 939 | 0.923658635 | |
| 9 | 35,625,000 | 35,775,000 | 476 | 723 | 1.049952096 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------------|
| 9 | 35,700,000 | 35,850,000 | 477 | 879 | 0.327082913 | |
| 9 | 35,775,000 | 35,925,000 | 478 | 640 | -0.125036619 | |
| 9 | 35,850,000 | 36,000,000 | 479 | 570 | 0.092236988 | |
| 9 | 35,925,000 | 36,075,000 | 480 | 670 | 0.345071624 | |
| 9 | 36,000,000 | 36,150,000 | 481 | 743 | 0.835687762 | |
| 9 | 36,075,000 | 36,225,000 | 482 | 819 | 0.570347663 | |
| 9 | 36,150,000 | 36,300,000 | 483 | 808 | 0.543812331 | |
| 9 | 36,225,000 | 36,375,000 | 484 | 1006 | 0.610676898 | |
| 9 | 36,300,000 | 36,450,000 | 485 | 898 | 0.412598938 | |
| 9 | 36,375,000 | 36,525,000 | 486 | 542 | 0.38407513 | |
| 9 | 36,450,000 | 36,600,000 | 487 | 678 | 0.943279215 | HS3ST5 |
| 9 | 36,525,000 | 36,675,000 | 488 | 945 | 0.856636584 | HS3ST5 |
| 9 | 36,600,000 | 36,750,000 | 489 | 1413 | -0.603038312 | HS3ST5 |
| 9 | 36,675,000 | 36,825,000 | 490 | 1382 | -1.224857047 | HS3ST5 |
| 9 | 36,750,000 | 36,900,000 | 491 | 948 | -0.60355635 | HS3ST5 |
| 9 | 36,825,000 | 36,975,000 | 492 | 736 | -0.786614474 | HDAC2,HS3ST5 |
| 9 | 36,900,000 | 37,050,000 | 493 | 506 | -2.189115142 | HDAC2,MARCKS |
| 9 | 36,975,000 | 37,125,000 | 494 | 395 | -0.752433863 | MARCKS |
| 9 | 37,050,000 | 37,200,000 | 495 | 280 | 0.416398082 | |
| 9 | 37,125,000 | 37,275,000 | 496 | 383 | 0.302201529 | |
| 9 | 37,200,000 | 37,350,000 | 497 | 532 | 0.56647139 | |
| 9 | 37,275,000 | 37,425,000 | 498 | 860 | 0.666798363 | |
| 9 | 37,350,000 | 37,500,000 | 499 | 780 | 0.562793913 | |
| 9 | 37,425,000 | 37,575,000 | 500 | 470 | 0.380616815 | |
| 9 | 37,500,000 | 37,650,000 | 501 | 523 | 0.617963333 | |
| 9 | 37,575,000 | 37,725,000 | 502 | 712 | 0.608236968 | |
| 9 | 37,650,000 | 37,800,000 | 503 | 888 | 0.436390919 | |
| 9 | 37,725,000 | 37,875,000 | 504 | 878 | 0.424432672 | |
| 9 | 37,800,000 | 37,950,000 | 505 | 779 | 0.348407219 | |
| 9 | 37,875,000 | 38,025,000 | 506 | 938 | 0.42307665 | |
| 9 | 37,950,000 | 38,100,000 | 507 | 884 | 0.573644786 | |
| 9 | 38,025,000 | 38,175,000 | 508 | 577 | -1.990897145 | |
| 9 | 38,100,000 | 38,250,000 | 509 | 742 | -0.493917234 | |
| 9 | 38,175,000 | 38,325,000 | 510 | 613 | 0.960906348 | |
| 9 | 38,250,000 | 38,400,000 | 511 | 548 | 0.070442509 | |
| 9 | 38,325,000 | 38,475,000 | 512 | 814 | 0.551497202 | |
| 9 | 38,400,000 | 38,550,000 | 513 | 546 | 0.817630293 | |
| 9 | 38,475,000 | 38,625,000 | 514 | 394 | 0.669364017 | |
| 9 | 38,550,000 | 38,700,000 | 515 | 557 | 0.723778442 | LAMA4 |
| 9 | 38,625,000 | 38,775,000 | 516 | 587 | 1.03712358 | LAMA4 |
| 9 | 38,700,000 | 38,850,000 | 517 | 869 | 1.016632155 | FAM229B,LAMA4,TUBE1,WISP3 |
| 9 | 38,775,000 | 38,925,000 | 518 | 1146 | 1.05288441 | FAM229B,LAMA4,TUBE1,WISP3 |
| 9 | 38,850,000 | 39,000,000 | 519 | 733 | 0.61626511 | WISP3 |
| 9 | 38,925,000 | 39,075,000 | 520 | 420 | -2.066009224 | |
| 9 | 39,000,000 | 39,150,000 | 521 | 472 | -1.705760986 | FYN |
| 9 | 39,075,000 | 39,225,000 | 522 | 710 | -1.757315971 | FYN |
| 9 | 39,150,000 | 39,300,000 | 523 | 728 | -2.035855888 | FYN |
| 9 | 39,225,000 | 39,375,000 | 524 | 363 | -2.802002396 | FYN,TRAF3IP2 |
| 9 | 39,300,000 | 39,450,000 | 525 | 315 | -2.628343091 | REV3L,TRAF3IP2,ENSBTAG00000039456 |
| 9 | 39,375,000 | 39,525,000 | 526 | 257 | -0.923544556 | REV3L,ENSBTAG00000039456 |
| 9 | 39,450,000 | 39,600,000 | 527 | 196 | -1.340668396 | REV3L |
| 9 | 39,525,000 | 39,675,000 | 528 | 450 | -0.987815137 | KIAA1919,REV3L,SLC16A10 |
| 9 | 39,600,000 | 39,750,000 | 529 | 565 | -0.867988182 | KIAA1919,SLC16A10 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 39,675,000 | 39,825,000 | 530 | 445 | 0.462412244 | RPF2,SLC16A10 |
| 9 | 39,750,000 | 39,900,000 | 531 | 292 | 1.211108856 | GTF3C6,RPF2,SLC16A10 |
| 9 | 39,825,000 | 39,975,000 | 532 | 198 | 1.10028272 | AMD1,GTF3C6,RPF2 |
| 9 | 39,900,000 | 40,050,000 | 533 | 261 | 1.207615016 | AMD1 |
| 9 | 39,975,000 | 40,125,000 | 534 | 356 | 0.322517472 | CDK19 |
| 9 | 40,050,000 | 40,200,000 | 535 | 464 | -0.055049257 | CDK19 |
| 9 | 40,125,000 | 40,275,000 | 536 | 691 | -0.165694613 | SLC22A16 |
| 9 | 40,200,000 | 40,350,000 | 537 | 643 | -0.400113221 | C9H6orf186,DDO,SLC22A16 |
| 9 | 40,275,000 | 40,425,000 | 538 | 426 | -2.299986931 | C9H6orf186,DDO |
| 9 | 40,350,000 | 40,500,000 | 539 | 629 | -1.529932 | C9H6orf186,CDC40 |
| 9 | 40,425,000 | 40,575,000 | 540 | 541 | -0.591634418 | C9H6orf186,CDC40,WASF1 |
| 9 | 40,500,000 | 40,650,000 | 541 | 403 | -2.296127236 | CDC40,WASF1 |
| 9 | 40,575,000 | 40,725,000 | 542 | 855 | -0.931253327 | GPR6,WASF1 |
| 9 | 40,650,000 | 40,800,000 | 543 | 848 | -0.089393951 | GPR6 |
| 9 | 40,725,000 | 40,875,000 | 544 | 551 | -4.089913991 | FIG4 |
| 9 | 40,800,000 | 40,950,000 | 545 | 472 | -5.930013997 | FIG4 |
| 9 | 40,875,000 | 41,025,000 | 546 | 494 | -3.494752536 | FIG4 |
| 9 | 40,950,000 | 41,100,000 | 547 | 1000 | -3.467204779 | AK9,FIG4 |
| 9 | 41,025,000 | 41,175,000 | 548 | 903 | -3.975494322 | AK9,FIG4,ZBTB24 |
| 9 | 41,100,000 | 41,250,000 | 549 | 359 | -3.323496818 | AK9,CD164,MICAL1,PPIL6,SMPD2,ZBTB24 |
| 9 | 41,175,000 | 41,325,000 | 550 | 170 | -2.890274769 | CD164,MICAL1,PPIL6,SMPD2,ZBTB24,ENSBTAG00000026637 |
| 9 | 41,250,000 | 41,400,000 | 551 | 114 | -3.680873078 | CD164,ENSBTAG00000026637,ENSBTAG00000047024 |
| 9 | 41,325,000 | 41,475,000 | 552 | 171 | -2.331895862 | CEP57L1,ENSBTAG00000026637,ENSBTAG00000047024 |
| 9 | 41,400,000 | 41,550,000 | 553 | 204 | -1.61675381 | CEP57L1 |
| 9 | 41,475,000 | 41,625,000 | 554 | 298 | -0.850413048 | CEP57L1,SESN1 |
| 9 | 41,550,000 | 41,700,000 | 555 | 350 | -0.907585517 | CEP57L1,SESN1 |
| 9 | 41,625,000 | 41,775,000 | 556 | 499 | -0.828186256 | ARMC2,SESN1 |
| 9 | 41,700,000 | 41,850,000 | 557 | 614 | -0.291052355 | ARMC2 |
| 9 | 41,775,000 | 41,925,000 | 558 | 595 | 0.294196772 | ARMC2 |
| 9 | 41,850,000 | 42,000,000 | 559 | 532 | 0.330519894 | |
| 9 | 41,925,000 | 42,075,000 | 560 | 389 | 0.776383887 | FOXO3 |
| 9 | 42,000,000 | 42,150,000 | 561 | 366 | 0.023865922 | FOXO3 |
| 9 | 42,075,000 | 42,225,000 | 562 | 385 | -1.376369813 | FOXO3,LACE1 |
| 9 | 42,150,000 | 42,300,000 | 563 | 293 | -0.955329951 | LACE1 |
| 9 | 42,225,000 | 42,375,000 | 564 | 169 | 0.183327656 | LACE1,SNX3,ENSBTAG00000045504 |
| 9 | 42,300,000 | 42,450,000 | 565 | 191 | 0.785014579 | LACE1,NR2E1,SNX3,ENSBTAG00000045504 |
| 9 | 42,375,000 | 42,525,000 | 566 | 219 | 0.881244081 | NR2E1,SNX3 |
| 9 | 42,450,000 | 42,600,000 | 567 | 264 | 0.946875798 | NR2E1,OSTM1,ENSBTAG00000023792 |
| 9 | 42,525,000 | 42,675,000 | 568 | 324 | 1.246196735 | OSTM1,SEC63,ENSBTAG00000023792 |
| 9 | 42,600,000 | 42,750,000 | 569 | 272 | 1.349645941 | SEC63 |
| 9 | 42,675,000 | 42,825,000 | 570 | 583 | 1.303377577 | SCML4,SEC63 |
| 9 | 42,750,000 | 42,900,000 | 571 | 769 | 0.860476765 | SCML4 |
| 9 | 42,825,000 | 42,975,000 | 572 | 456 | -0.461738734 | SCML4,SOBP |
| 9 | 42,900,000 | 43,050,000 | 573 | 404 | -1.116803355 | SOBP |
| 9 | 42,975,000 | 43,125,000 | 574 | 359 | 0.141522758 | PDSS2,SOBP |
| 9 | 43,050,000 | 43,200,000 | 575 | 338 | 0.165462031 | PDSS2,SOBP |
| 9 | 43,125,000 | 43,275,000 | 576 | 346 | -0.436433668 | PDSS2 |
| 9 | 43,200,000 | 43,350,000 | 577 | 399 | 0.016621046 | PDSS2 |
| 9 | 43,275,000 | 43,425,000 | 578 | 594 | 0.815940634 | BEND3,PDSS2 |
| 9 | 43,350,000 | 43,500,000 | 579 | 514 | 0.857556916 | BEND3,C9H6ORF203,PDSS2,ENSBTAG00000045655 |
| 9 | 43,425,000 | 43,575,000 | 580 | 553 | 0.938980254 | C9H6ORF203,ENSBTAG00000045655 |
| 9 | 43,500,000 | 43,650,000 | 581 | 711 | 1.015582856 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------|
| 9 | 43,575,000 | 43,725,000 | 582 | 689 | 1.103838296 | |
| 9 | 43,650,000 | 43,800,000 | 583 | 599 | 0.956365921 | QRSL1 |
| 9 | 43,725,000 | 43,875,000 | 584 | 590 | 0.799904951 | QRSL1,RTN4IP1 |
| 9 | 43,800,000 | 43,950,000 | 585 | 783 | 0.768128846 | AIM1,QRSL1,RTN4IP1 |
| 9 | 43,875,000 | 44,025,000 | 586 | 885 | -1.100167013 | AIM1,RTN4IP1 |
| 9 | 43,950,000 | 44,100,000 | 587 | 1008 | -3.592203612 | |
| 9 | 44,025,000 | 44,175,000 | 588 | 972 | -3.006240422 | ATG5 |
| 9 | 44,100,000 | 44,250,000 | 589 | 550 | -1.057847009 | ATG5 |
| 9 | 44,175,000 | 44,325,000 | 590 | 316 | -0.122665511 | ATG5 |
| 9 | 44,250,000 | 44,400,000 | 591 | 398 | -0.899310713 | PRDM1 |
| 9 | 44,325,000 | 44,475,000 | 592 | 359 | -1.131148259 | PRDM1 |
| 9 | 44,400,000 | 44,550,000 | 593 | 210 | -0.432036406 | |
| 9 | 44,475,000 | 44,625,000 | 594 | 296 | 0.221540582 | |
| 9 | 44,550,000 | 44,700,000 | 595 | 427 | 0.288235496 | ENSBTAG00000020368 |
| 9 | 44,625,000 | 44,775,000 | 596 | 387 | -0.104220353 | ENSBTAG00000020368 |
| 9 | 44,700,000 | 44,850,000 | 597 | 631 | 0.519894813 | |
| 9 | 44,775,000 | 44,925,000 | 598 | 904 | 0.148708774 | |
| 9 | 44,850,000 | 45,000,000 | 599 | 717 | -0.735007077 | |
| 9 | 44,925,000 | 45,075,000 | 600 | 327 | -0.786083302 | |
| 9 | 45,000,000 | 45,150,000 | 601 | 278 | 0.571167861 | |
| 9 | 45,075,000 | 45,225,000 | 602 | 530 | 0.942589967 | PREP |
| 9 | 45,150,000 | 45,300,000 | 603 | 512 | 1.127566963 | PREP |
| 9 | 45,225,000 | 45,375,000 | 604 | 419 | 1.174653659 | PREP |
| 9 | 45,300,000 | 45,450,000 | 605 | 534 | 0.958574665 | PREP,ENSBTAG00000033218 |
| 9 | 45,375,000 | 45,525,000 | 606 | 624 | 0.457158189 | BVES,POPDC3,ENSBTAG00000033218 |
| 9 | 45,450,000 | 45,600,000 | 607 | 484 | -0.108263786 | BVES,LIN28B,POPDC3 |
| 9 | 45,525,000 | 45,675,000 | 608 | 348 | -1.123324704 | LIN28B |
| 9 | 45,600,000 | 45,750,000 | 609 | 367 | -0.552167663 | HACE1 |
| 9 | 45,675,000 | 45,825,000 | 610 | 370 | 0.326809375 | HACE1 |
| 9 | 45,750,000 | 45,900,000 | 611 | 331 | 0.140436581 | HACE1 |
| 9 | 45,825,000 | 45,975,000 | 612 | 255 | 0.602608491 | HACE1 |
| 9 | 45,900,000 | 46,050,000 | 613 | 179 | 0.959839746 | |
| 9 | 45,975,000 | 46,125,000 | 614 | 218 | -0.070035281 | |
| 9 | 46,050,000 | 46,200,000 | 615 | 298 | -0.37985747 | |
| 9 | 46,125,000 | 46,275,000 | 616 | 249 | -0.088808499 | |
| 9 | 46,200,000 | 46,350,000 | 617 | 187 | 0.985011773 | |
| 9 | 46,275,000 | 46,425,000 | 618 | 483 | -0.541113938 | |
| 9 | 46,350,000 | 46,500,000 | 619 | 729 | -0.611725933 | |
| 9 | 46,425,000 | 46,575,000 | 620 | 667 | 0.388298081 | |
| 9 | 46,500,000 | 46,650,000 | 621 | 594 | 0.700088832 | |
| 9 | 46,575,000 | 46,725,000 | 622 | 740 | 0.582389416 | |
| 9 | 46,650,000 | 46,800,000 | 623 | 1026 | 0.442630802 | |
| 9 | 46,725,000 | 46,875,000 | 624 | 714 | 0.291839342 | |
| 9 | 46,800,000 | 46,950,000 | 625 | 322 | 0.441484393 | |
| 9 | 46,875,000 | 47,025,000 | 626 | 363 | 0.633266204 | |
| 9 | 46,950,000 | 47,100,000 | 627 | 429 | 0.717494891 | |
| 9 | 47,025,000 | 47,175,000 | 628 | 423 | 0.344079324 | |
| 9 | 47,100,000 | 47,250,000 | 629 | 359 | 0.410408803 | |
| 9 | 47,175,000 | 47,325,000 | 630 | 457 | 0.939013132 | |
| 9 | 47,250,000 | 47,400,000 | 631 | 924 | 0.914684039 | |
| 9 | 47,325,000 | 47,475,000 | 632 | 1386 | -0.151555007 | |
| 9 | 47,400,000 | 47,550,000 | 633 | 1304 | -0.106777189 | |
| 9 | 47,475,000 | 47,625,000 | 634 | 1102 | 0.614688581 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 47,550,000 | 47,700,000 | 635 | 838 | -0.212270022 | |
| 9 | 47,625,000 | 47,775,000 | 636 | 537 | -0.264492841 | |
| 9 | 47,700,000 | 47,850,000 | 637 | 456 | 0.724341527 | |
| 9 | 47,775,000 | 47,925,000 | 638 | 644 | 1.221303164 | |
| 9 | 47,850,000 | 48,000,000 | 639 | 1214 | 1.340140292 | |
| 9 | 47,925,000 | 48,075,000 | 640 | 1344 | 1.188307006 | |
| 9 | 48,000,000 | 48,150,000 | 641 | 1078 | 0.543574937 | |
| 9 | 48,075,000 | 48,225,000 | 642 | 1208 | -0.618888076 | |
| 9 | 48,150,000 | 48,300,000 | 643 | 1032 | -1.278092222 | |
| 9 | 48,225,000 | 48,375,000 | 644 | 856 | -0.447187778 | |
| 9 | 48,300,000 | 48,450,000 | 645 | 764 | 0.042553599 | |
| 9 | 48,375,000 | 48,525,000 | 646 | 559 | -0.684218344 | GRIK2 |
| 9 | 48,450,000 | 48,600,000 | 647 | 569 | -0.350490996 | GRIK2 |
| 9 | 48,525,000 | 48,675,000 | 648 | 752 | -0.324599514 | GRIK2 |
| 9 | 48,600,000 | 48,750,000 | 649 | 841 | -0.869268012 | GRIK2 |
| 9 | 48,675,000 | 48,825,000 | 650 | 551 | -0.776985108 | GRIK2 |
| 9 | 48,750,000 | 48,900,000 | 651 | 345 | -0.257732163 | GRIK2 |
| 9 | 48,825,000 | 48,975,000 | 652 | 362 | -0.084135727 | GRIK2 |
| 9 | 48,900,000 | 49,050,000 | 653 | 364 | -0.017733031 | GRIK2 |
| 9 | 48,975,000 | 49,125,000 | 654 | 382 | 0.176775548 | GRIK2,ENSBTAG00000030490 |
| 9 | 49,050,000 | 49,200,000 | 655 | 383 | 0.933964858 | GRIK2,ENSBTAG00000030490 |
| 9 | 49,125,000 | 49,275,000 | 656 | 361 | 0.85383418 | GRIK2 |
| 9 | 49,200,000 | 49,350,000 | 657 | 525 | -1.326236478 | GRIK2 |
| 9 | 49,275,000 | 49,425,000 | 658 | 796 | -1.539825869 | |
| 9 | 49,350,000 | 49,500,000 | 659 | 889 | -0.706075657 | |
| 9 | 49,425,000 | 49,575,000 | 660 | 836 | -1.578991683 | |
| 9 | 49,500,000 | 49,650,000 | 661 | 734 | -2.670587356 | |
| 9 | 49,575,000 | 49,725,000 | 662 | 425 | -2.327176982 | ASCC3 |
| 9 | 49,650,000 | 49,800,000 | 663 | 287 | -0.77296007 | ASCC3 |
| 9 | 49,725,000 | 49,875,000 | 664 | 570 | -3.586889868 | ASCC3,ENSBTAG00000045624 |
| 9 | 49,800,000 | 49,950,000 | 665 | 696 | -4.834119596 | ASCC3,ENSBTAG00000045624 |
| 9 | 49,875,000 | 50,025,000 | 666 | 569 | -3.999841757 | ASCC3 |
| 9 | 49,950,000 | 50,100,000 | 667 | 776 | -0.90067287 | ASCC3 |
| 9 | 50,025,000 | 50,175,000 | 668 | 788 | 0.441513005 | ASCC3,SIM1 |
| 9 | 50,100,000 | 50,250,000 | 669 | 455 | 0.411972068 | ASCC3,SIM1 |
| 9 | 50,175,000 | 50,325,000 | 670 | 285 | -0.180331586 | SIM1 |
| 9 | 50,250,000 | 50,400,000 | 671 | 405 | 0.507517587 | |
| 9 | 50,325,000 | 50,475,000 | 672 | 832 | 0.515818774 | |
| 9 | 50,400,000 | 50,550,000 | 673 | 999 | 0.161339673 | ENSBTAG00000014104 |
| 9 | 50,475,000 | 50,625,000 | 674 | 942 | -0.736223747 | MCHR2,ENSBTAG00000014104 |
| 9 | 50,550,000 | 50,700,000 | 675 | 1107 | -0.060496474 | MCHR2 |
| 9 | 50,625,000 | 50,775,000 | 676 | 1079 | 0.619947347 | |
| 9 | 50,700,000 | 50,850,000 | 677 | 679 | 0.49650509 | |
| 9 | 50,775,000 | 50,925,000 | 678 | 346 | 0.766463286 | CCNC,PRDM13 |
| 9 | 50,850,000 | 51,000,000 | 679 | 284 | 1.060830748 | CCNC,PRDM13,USP45,ENSBTAG00000038931 |
| 9 | 50,925,000 | 51,075,000 | 680 | 303 | 0.960917395 | CCNC,COQ3,SFRS18,USP45,ENSBTAG00000038931 |
| 9 | 51,000,000 | 51,150,000 | 681 | 310 | 0.432951253 | COQ3,FAXC,SFRS18,USP45 |
| 9 | 51,075,000 | 51,225,000 | 682 | 370 | -0.511586698 | COQ3,FAXC |
| 9 | 51,150,000 | 51,300,000 | 683 | 945 | -1.899663233 | FAXC |
| 9 | 51,225,000 | 51,375,000 | 684 | 1144 | -1.953545715 | |
| 9 | 51,300,000 | 51,450,000 | 685 | 597 | -0.557452042 | |
| 9 | 51,375,000 | 51,525,000 | 686 | 339 | 0.621460363 | FBXL4 |
| 9 | 51,450,000 | 51,600,000 | 687 | 361 | 0.244978049 | FBXL4,POU3F2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 51,525,000 | 51,675,000 | 688 | 565 | 0.454631258 | FBXL4,POU3F2 |
| 9 | 51,600,000 | 51,750,000 | 689 | 709 | 0.081728719 | POU3F2 |
| 9 | 51,675,000 | 51,825,000 | 690 | 937 | 0.768060767 | |
| 9 | 51,750,000 | 51,900,000 | 691 | 892 | 0.843940665 | |
| 9 | 51,825,000 | 51,975,000 | 692 | 580 | -0.564010748 | |
| 9 | 51,900,000 | 52,050,000 | 693 | 490 | -0.8020802 | |
| 9 | 51,975,000 | 52,125,000 | 694 | 511 | 0.867353928 | |
| 9 | 52,050,000 | 52,200,000 | 695 | 596 | 0.738496245 | |
| 9 | 52,125,000 | 52,275,000 | 696 | 601 | 0.392957026 | |
| 9 | 52,200,000 | 52,350,000 | 697 | 698 | 0.336351069 | |
| 9 | 52,275,000 | 52,425,000 | 698 | 630 | 0.372721671 | |
| 9 | 52,350,000 | 52,500,000 | 699 | 538 | 0.392185211 | |
| 9 | 52,425,000 | 52,575,000 | 700 | 715 | 0.430181481 | |
| 9 | 52,500,000 | 52,650,000 | 701 | 662 | 0.42576163 | |
| 9 | 52,575,000 | 52,725,000 | 702 | 688 | -1.675631703 | |
| 9 | 52,650,000 | 52,800,000 | 703 | 771 | -2.729371018 | |
| 9 | 52,725,000 | 52,875,000 | 704 | 526 | -2.165625299 | |
| 9 | 52,800,000 | 52,950,000 | 705 | 410 | -0.791729649 | ENSBTAG00000017170 |
| 9 | 52,875,000 | 53,025,000 | 706 | 595 | 0.449724609 | ENSBTAG00000017170 |
| 9 | 52,950,000 | 53,100,000 | 707 | 615 | 0.761196301 | |
| 9 | 53,025,000 | 53,175,000 | 708 | 523 | 0.811926103 | |
| 9 | 53,100,000 | 53,250,000 | 709 | 607 | 0.080172599 | MMS22L |
| 9 | 53,175,000 | 53,325,000 | 710 | 660 | -0.024464888 | MMS22L |
| 9 | 53,250,000 | 53,400,000 | 711 | 878 | 0.368791581 | KLHL32,MMS22L |
| 9 | 53,325,000 | 53,475,000 | 712 | 1073 | 0.072710013 | KLHL32,MMS22L |
| 9 | 53,400,000 | 53,550,000 | 713 | 900 | -0.141142413 | KLHL32 |
| 9 | 53,475,000 | 53,625,000 | 714 | 435 | 0.000526302 | |
| 9 | 53,550,000 | 53,700,000 | 715 | 612 | 0.827924695 | NDUF4F4 |
| 9 | 53,625,000 | 53,775,000 | 716 | 987 | 0.803303523 | NDUF4F4 |
| 9 | 53,700,000 | 53,850,000 | 717 | 746 | 0.273410155 | GPR63 |
| 9 | 53,775,000 | 53,925,000 | 718 | 845 | -2.060804665 | GPR63 |
| 9 | 53,850,000 | 54,000,000 | 719 | 916 | -1.580445469 | FHL5 |
| 9 | 53,925,000 | 54,075,000 | 720 | 655 | 0.830351356 | FHL5,UFL1 |
| 9 | 54,000,000 | 54,150,000 | 721 | 461 | 0.793282719 | FHL5,UFL1 |
| 9 | 54,075,000 | 54,225,000 | 722 | 450 | 0.504953907 | UFL1 |
| 9 | 54,150,000 | 54,300,000 | 723 | 555 | 0.705491943 | |
| 9 | 54,225,000 | 54,375,000 | 724 | 468 | 0.900710108 | |
| 9 | 54,300,000 | 54,450,000 | 725 | 470 | -0.477137895 | FUT9 |
| 9 | 54,375,000 | 54,525,000 | 726 | 610 | -0.250822647 | FUT9 |
| 9 | 54,450,000 | 54,600,000 | 727 | 864 | 0.743885312 | |
| 9 | 54,525,000 | 54,675,000 | 728 | 815 | 0.687396369 | |
| 9 | 54,600,000 | 54,750,000 | 729 | 776 | 0.101428729 | |
| 9 | 54,675,000 | 54,825,000 | 730 | 825 | -0.055929949 | ENSBTAG00000045583 |
| 9 | 54,750,000 | 54,900,000 | 731 | 535 | -0.070184112 | ENSBTAG00000045583 |
| 9 | 54,825,000 | 54,975,000 | 732 | 449 | 0.345966186 | |
| 9 | 54,900,000 | 55,050,000 | 733 | 464 | 0.725146571 | |
| 9 | 54,975,000 | 55,125,000 | 734 | 644 | -0.175239865 | MANEA |
| 9 | 55,050,000 | 55,200,000 | 735 | 533 | -0.551163078 | MANEA |
| 9 | 55,125,000 | 55,275,000 | 736 | 288 | 0.096917301 | MANEA |
| 9 | 55,200,000 | 55,350,000 | 737 | 465 | 0.590132797 | |
| 9 | 55,275,000 | 55,425,000 | 738 | 576 | 0.120645066 | |
| 9 | 55,350,000 | 55,500,000 | 739 | 548 | 0.067492288 | |
| 9 | 55,425,000 | 55,575,000 | 740 | 695 | 0.287240291 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 55,500,000 | 55,650,000 | 741 | 981 | 0.808078677 | |
| 9 | 55,575,000 | 55,725,000 | 742 | 972 | 0.99729484 | |
| 9 | 55,650,000 | 55,800,000 | 743 | 1114 | 0.08174554 | |
| 9 | 55,725,000 | 55,875,000 | 744 | 929 | -0.209459584 | |
| 9 | 55,800,000 | 55,950,000 | 745 | 683 | -0.328634656 | |
| 9 | 55,875,000 | 56,025,000 | 746 | 1147 | -0.553530161 | |
| 9 | 55,950,000 | 56,100,000 | 747 | 1372 | -0.890935176 | |
| 9 | 56,025,000 | 56,175,000 | 748 | 1115 | -0.392131123 | |
| 9 | 56,100,000 | 56,250,000 | 749 | 656 | 0.625469444 | |
| 9 | 56,175,000 | 56,325,000 | 750 | 746 | 0.808062009 | |
| 9 | 56,250,000 | 56,400,000 | 751 | 1325 | 0.624917323 | ENSBTAG00000033083 |
| 9 | 56,325,000 | 56,475,000 | 752 | 1378 | 0.264901822 | ENSBTAG00000033083 |
| 9 | 56,400,000 | 56,550,000 | 753 | 1352 | -0.110245252 | |
| 9 | 56,475,000 | 56,625,000 | 754 | 1272 | 0.025357024 | |
| 9 | 56,550,000 | 56,700,000 | 755 | 1033 | -0.016100543 | |
| 9 | 56,625,000 | 56,775,000 | 756 | 1040 | 0.135663618 | |
| 9 | 56,700,000 | 56,850,000 | 757 | 784 | 0.419017415 | |
| 9 | 56,775,000 | 56,925,000 | 758 | 629 | 0.440294343 | |
| 9 | 56,850,000 | 57,000,000 | 759 | 1030 | 0.325303666 | |
| 9 | 56,925,000 | 57,075,000 | 760 | 977 | 0.390073229 | |
| 9 | 57,000,000 | 57,150,000 | 761 | 730 | 0.45268725 | |
| 9 | 57,075,000 | 57,225,000 | 762 | 1094 | -1.18031698 | |
| 9 | 57,150,000 | 57,300,000 | 763 | 1117 | -0.952822376 | |
| 9 | 57,225,000 | 57,375,000 | 764 | 723 | 0.258497959 | |
| 9 | 57,300,000 | 57,450,000 | 765 | 564 | -0.914981235 | |
| 9 | 57,375,000 | 57,525,000 | 766 | 833 | 0.241541936 | ENSBTAG00000003743 |
| 9 | 57,450,000 | 57,600,000 | 767 | 689 | 0.707067949 | ENSBTAG00000003743 |
| 9 | 57,525,000 | 57,675,000 | 768 | 506 | -0.130143571 | EPHA7 |
| 9 | 57,600,000 | 57,750,000 | 769 | 637 | -0.051578764 | EPHA7 |
| 9 | 57,675,000 | 57,825,000 | 770 | 534 | -0.572476949 | EPHA7 |
| 9 | 57,750,000 | 57,900,000 | 771 | 692 | -0.140174908 | EPHA7 |
| 9 | 57,825,000 | 57,975,000 | 772 | 1000 | 0.687212677 | EPHA7 |
| 9 | 57,900,000 | 58,050,000 | 773 | 1029 | 0.214291631 | |
| 9 | 57,975,000 | 58,125,000 | 774 | 1032 | 0.152038282 | |
| 9 | 58,050,000 | 58,200,000 | 775 | 1311 | 0.494411623 | |
| 9 | 58,125,000 | 58,275,000 | 776 | 1117 | 0.467022605 | |
| 9 | 58,200,000 | 58,350,000 | 777 | 843 | 0.93770859 | |
| 9 | 58,275,000 | 58,425,000 | 778 | 1060 | 0.784008217 | |
| 9 | 58,350,000 | 58,500,000 | 779 | 1274 | 0.767905734 | |
| 9 | 58,425,000 | 58,575,000 | 780 | 1263 | 0.253591797 | |
| 9 | 58,500,000 | 58,650,000 | 781 | 1134 | 0.143097869 | |
| 9 | 58,575,000 | 58,725,000 | 782 | 1169 | 0.305338757 | |
| 9 | 58,650,000 | 58,800,000 | 783 | 1006 | -0.599155561 | |
| 9 | 58,725,000 | 58,875,000 | 784 | 715 | -0.99146169 | |
| 9 | 58,800,000 | 58,950,000 | 785 | 807 | 0.362418891 | |
| 9 | 58,875,000 | 59,025,000 | 786 | 1010 | -0.03468367 | |
| 9 | 58,950,000 | 59,100,000 | 787 | 1084 | -0.388121218 | |
| 9 | 59,025,000 | 59,175,000 | 788 | 1212 | 0.250640095 | |
| 9 | 59,100,000 | 59,250,000 | 789 | 1246 | -0.817999612 | |
| 9 | 59,175,000 | 59,325,000 | 790 | 1289 | -1.649748444 | |
| 9 | 59,250,000 | 59,400,000 | 791 | 1213 | 0.268203631 | |
| 9 | 59,325,000 | 59,475,000 | 792 | 812 | 0.382795365 | |
| 9 | 59,400,000 | 59,550,000 | 793 | 724 | -0.539582919 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 59,475,000 | 59,625,000 | 794 | 905 | -0.454633889 | |
| 9 | 59,550,000 | 59,700,000 | 795 | 1066 | 0.588664631 | |
| 9 | 59,625,000 | 59,775,000 | 796 | 942 | 0.892311638 | |
| 9 | 59,700,000 | 59,850,000 | 797 | 662 | 0.331740609 | |
| 9 | 59,775,000 | 59,925,000 | 798 | 875 | 0.580499235 | |
| 9 | 59,850,000 | 60,000,000 | 799 | 1111 | 0.703694352 | |
| 9 | 59,925,000 | 60,075,000 | 800 | 1001 | 0.700028049 | |
| 9 | 60,000,000 | 60,150,000 | 801 | 690 | 0.785057489 | |
| 9 | 60,075,000 | 60,225,000 | 802 | 579 | -1.059126561 | |
| 9 | 60,150,000 | 60,300,000 | 803 | 698 | -0.427323256 | |
| 9 | 60,225,000 | 60,375,000 | 804 | 607 | 0.442923799 | |
| 9 | 60,300,000 | 60,450,000 | 805 | 861 | -0.832293563 | |
| 9 | 60,375,000 | 60,525,000 | 806 | 792 | -0.7815872 | |
| 9 | 60,450,000 | 60,600,000 | 807 | 359 | -0.4877519 | MAP3K7 |
| 9 | 60,525,000 | 60,675,000 | 808 | 448 | 0.110499012 | MAP3K7 |
| 9 | 60,600,000 | 60,750,000 | 809 | 571 | 0.544467269 | MAP3K7 |
| 9 | 60,675,000 | 60,825,000 | 810 | 649 | 0.374459658 | |
| 9 | 60,750,000 | 60,900,000 | 811 | 477 | 0.785702068 | |
| 9 | 60,825,000 | 60,975,000 | 812 | 285 | 1.084483394 | |
| 9 | 60,900,000 | 61,050,000 | 813 | 285 | 1.232976313 | |
| 9 | 60,975,000 | 61,125,000 | 814 | 343 | 1.122876846 | BACH2,ENSBTAG00000047479 |
| 9 | 61,050,000 | 61,200,000 | 815 | 592 | 0.158740364 | BACH2,ENSBTAG00000047479 |
| 9 | 61,125,000 | 61,275,000 | 816 | 552 | -0.919268498 | BACH2,CASP8AP2,GJA10 |
| 9 | 61,200,000 | 61,350,000 | 817 | 331 | -1.348225268 | BACH2,CASP8AP2,GJA10,MDN1 |
| 9 | 61,275,000 | 61,425,000 | 818 | 352 | 0.329495954 | MDN1 |
| 9 | 61,350,000 | 61,500,000 | 819 | 493 | 0.982463249 | ANKRD6,LYRM2,MDN1 |
| 9 | 61,425,000 | 61,575,000 | 820 | 462 | 0.932843836 | ANKRD6,LYRM2,MDN1 |
| 9 | 61,500,000 | 61,650,000 | 821 | 553 | -0.576289513 | ANKRD6,RRAGD |
| 9 | 61,575,000 | 61,725,000 | 822 | 477 | -0.910955021 | ANKRD6,GABRR2,RRAGD |
| 9 | 61,650,000 | 61,800,000 | 823 | 267 | 0.183113542 | GABRR2,RRAGD,UBE2J1 |
| 9 | 61,725,000 | 61,875,000 | 824 | 393 | 1.03181351 | GABRR1,PM20D2,RRAGD,UBE2J1 |
| 9 | 61,800,000 | 61,950,000 | 825 | 316 | 1.197374776 | GABRR1,PM20D2,PNRC1,SRSF12 |
| 9 | 61,875,000 | 62,025,000 | 826 | 204 | 1.131567812 | PNRC1,RNGTT,SRSF12 |
| 9 | 61,950,000 | 62,100,000 | 827 | 233 | 0.262111491 | RNGTT |
| 9 | 62,025,000 | 62,175,000 | 828 | 279 | -1.726799168 | RNGTT |
| 9 | 62,100,000 | 62,250,000 | 829 | 307 | -1.842516745 | RNGTT |
| 9 | 62,175,000 | 62,325,000 | 830 | 375 | -1.065320987 | RNGTT |
| 9 | 62,250,000 | 62,400,000 | 831 | 618 | 0.105543668 | |
| 9 | 62,325,000 | 62,475,000 | 832 | 609 | 0.208879291 | |
| 9 | 62,400,000 | 62,550,000 | 833 | 443 | -0.235484061 | |
| 9 | 62,475,000 | 62,625,000 | 834 | 421 | 0.22180158 | |
| 9 | 62,550,000 | 62,700,000 | 835 | 323 | 0.356634521 | CNR1 |
| 9 | 62,625,000 | 62,775,000 | 836 | 350 | 0.44984881 | CNR1,SPACA1 |
| 9 | 62,700,000 | 62,850,000 | 837 | 571 | 0.499275413 | SPACA1 |
| 9 | 62,775,000 | 62,925,000 | 838 | 706 | 0.405461885 | SPACA1 |
| 9 | 62,850,000 | 63,000,000 | 839 | 802 | 0.436667956 | |
| 9 | 62,925,000 | 63,075,000 | 840 | 873 | 0.689620983 | |
| 9 | 63,000,000 | 63,150,000 | 841 | 597 | 0.676006224 | AKIRIN2 |
| 9 | 63,075,000 | 63,225,000 | 842 | 287 | 0.71060976 | AKIRIN2,ORC3 |
| 9 | 63,150,000 | 63,300,000 | 843 | 216 | 0.78897925 | AKIRIN2,ORC3,RARS2 |
| 9 | 63,225,000 | 63,375,000 | 844 | 242 | 0.817426505 | ORC3,RARS2,SLC35A1,ENSBTAG00000014054 |
| 9 | 63,300,000 | 63,450,000 | 845 | 351 | 1.170936894 | C9H6orf163,SLC35A1,ENSBTAG00000014054 |
| 9 | 63,375,000 | 63,525,000 | 846 | 313 | 1.206742165 | C9H6orf163,SMIM8,ZNF292,ENSBTAG00000014054 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 63,450,000 | 63,600,000 | 847 | 186 | 1.117362414 | C9H6orf163,SMIM8,ZNF292 |
| 9 | 63,525,000 | 63,675,000 | 848 | 175 | 1.174177239 | ZNF292 |
| 9 | 63,600,000 | 63,750,000 | 849 | 188 | 0.438932087 | CGA,ZNF292 |
| 9 | 63,675,000 | 63,825,000 | 850 | 307 | -0.052174379 | CGA,HTR1E,ENSBTAG00000047011 |
| 9 | 63,750,000 | 63,900,000 | 851 | 782 | 0.12070636 | HTR1E,ENSBTAG00000047011 |
| 9 | 63,825,000 | 63,975,000 | 852 | 1128 | 0.434811427 | |
| 9 | 63,900,000 | 64,050,000 | 853 | 1147 | 0.797587379 | |
| 9 | 63,975,000 | 64,125,000 | 854 | 779 | 0.843160047 | |
| 9 | 64,050,000 | 64,200,000 | 855 | 406 | 0.374229699 | |
| 9 | 64,125,000 | 64,275,000 | 856 | 747 | -0.84369829 | |
| 9 | 64,200,000 | 64,350,000 | 857 | 904 | -1.30744904 | |
| 9 | 64,275,000 | 64,425,000 | 858 | 629 | -0.548063014 | |
| 9 | 64,350,000 | 64,500,000 | 859 | 423 | -0.860622811 | |
| 9 | 64,425,000 | 64,575,000 | 860 | 686 | -1.540216346 | |
| 9 | 64,500,000 | 64,650,000 | 861 | 963 | -1.437484449 | |
| 9 | 64,575,000 | 64,725,000 | 862 | 751 | -0.702256113 | SYNCRIP |
| 9 | 64,650,000 | 64,800,000 | 863 | 539 | 1.004820548 | SNX14,SYNCRIP |
| 9 | 64,725,000 | 64,875,000 | 864 | 698 | 1.127635307 | SNX14,SYNCRIP,ENSBTAG00000045976 |
| 9 | 64,800,000 | 64,950,000 | 865 | 814 | -1.315614193 | SNX14,ENSBTAG00000011330,ENSBTAG00000045976 |
| 9 | 64,875,000 | 65,025,000 | 866 | 864 | -2.428704994 | ENSBTAG00000011330 |
| 9 | 64,950,000 | 65,100,000 | 867 | 859 | -1.308660386 | |
| 9 | 65,025,000 | 65,175,000 | 868 | 582 | -0.676599897 | |
| 9 | 65,100,000 | 65,250,000 | 869 | 488 | 0.027027303 | |
| 9 | 65,175,000 | 65,325,000 | 870 | 451 | 0.557914635 | |
| 9 | 65,250,000 | 65,400,000 | 871 | 451 | 0.137271239 | |
| 9 | 65,325,000 | 65,475,000 | 872 | 636 | -0.398316219 | |
| 9 | 65,400,000 | 65,550,000 | 873 | 816 | 0.000469688 | |
| 9 | 65,475,000 | 65,625,000 | 874 | 825 | 0.200284711 | TBX18 |
| 9 | 65,550,000 | 65,700,000 | 875 | 707 | -0.446328749 | TBX18 |
| 9 | 65,625,000 | 65,775,000 | 876 | 600 | -1.500586741 | |
| 9 | 65,700,000 | 65,850,000 | 877 | 701 | -0.302807531 | |
| 9 | 65,775,000 | 65,925,000 | 878 | 823 | 0.610080986 | |
| 9 | 65,850,000 | 66,000,000 | 879 | 774 | -0.483643078 | |
| 9 | 65,925,000 | 66,075,000 | 880 | 622 | -1.871651311 | |
| 9 | 66,000,000 | 66,150,000 | 881 | 1023 | -2.174772832 | KIAA1009 |
| 9 | 66,075,000 | 66,225,000 | 882 | 1393 | -1.290333267 | KIAA1009,MRAP2 |
| 9 | 66,150,000 | 66,300,000 | 883 | 1115 | 0.340559188 | KIAA1009,MRAP2 |
| 9 | 66,225,000 | 66,375,000 | 884 | 1010 | 0.975174247 | MRAP2 |
| 9 | 66,300,000 | 66,450,000 | 885 | 1196 | 0.432380121 | CYB5R4 |
| 9 | 66,375,000 | 66,525,000 | 886 | 1210 | -0.406565923 | CYB5R4,RIPPLY2 |
| 9 | 66,450,000 | 66,600,000 | 887 | 938 | 0.025342936 | CYB5R4,RIPPLY2 |
| 9 | 66,525,000 | 66,675,000 | 888 | 810 | 0.293523527 | ENSBTAG00000026578 |
| 9 | 66,600,000 | 66,750,000 | 889 | 814 | 0.298771843 | THEMIS,ENSBTAG00000026578 |
| 9 | 66,675,000 | 66,825,000 | 890 | 600 | 0.096047833 | THEMIS |
| 9 | 66,750,000 | 66,900,000 | 891 | 306 | -0.36350515 | THEMIS |
| 9 | 66,825,000 | 66,975,000 | 892 | 632 | 0.669432711 | PTPRK,THEMIS |
| 9 | 66,900,000 | 67,050,000 | 893 | 959 | 0.654169077 | PTPRK |
| 9 | 66,975,000 | 67,125,000 | 894 | 973 | -0.245977707 | PTPRK |
| 9 | 67,050,000 | 67,200,000 | 895 | 858 | -1.124940185 | PTPRK |
| 9 | 67,125,000 | 67,275,000 | 896 | 855 | 0.405683868 | PTPRK |
| 9 | 67,200,000 | 67,350,000 | 897 | 923 | 0.805610104 | PTPRK |
| 9 | 67,275,000 | 67,425,000 | 898 | 728 | 0.265406609 | PTPRK |
| 9 | 67,350,000 | 67,500,000 | 899 | 636 | 0.724591807 | PTPRK |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 67,425,000 | 67,575,000 | 900 | 531 | 1.07676127 | PTPRK |
| 9 | 67,500,000 | 67,650,000 | 901 | 554 | 1.086971879 | PTPRK |
| 9 | 67,575,000 | 67,725,000 | 902 | 774 | 0.830083666 | PTPRK |
| 9 | 67,650,000 | 67,800,000 | 903 | 726 | 0.282130596 | |
| 9 | 67,725,000 | 67,875,000 | 904 | 472 | 0.272558067 | |
| 9 | 67,800,000 | 67,950,000 | 905 | 364 | 0.726479387 | |
| 9 | 67,875,000 | 68,025,000 | 906 | 552 | 0.707235307 | |
| 9 | 67,950,000 | 68,100,000 | 907 | 810 | 0.955062983 | |
| 9 | 68,025,000 | 68,175,000 | 908 | 955 | -0.241288287 | LAMA2 |
| 9 | 68,100,000 | 68,250,000 | 909 | 788 | -0.716840019 | LAMA2 |
| 9 | 68,175,000 | 68,325,000 | 910 | 528 | 0.634381351 | LAMA2 |
| 9 | 68,250,000 | 68,400,000 | 911 | 818 | 0.960905478 | LAMA2 |
| 9 | 68,325,000 | 68,475,000 | 912 | 892 | 1.218470021 | LAMA2 |
| 9 | 68,400,000 | 68,550,000 | 913 | 833 | 1.03981669 | LAMA2 |
| 9 | 68,475,000 | 68,625,000 | 914 | 894 | 0.738356354 | LAMA2 |
| 9 | 68,550,000 | 68,700,000 | 915 | 653 | 0.391104289 | LAMA2 |
| 9 | 68,625,000 | 68,775,000 | 916 | 430 | 0.514266569 | ARHGAP18,LAMA2 |
| 9 | 68,700,000 | 68,850,000 | 917 | 335 | 0.844816992 | ARHGAP18 |
| 9 | 68,775,000 | 68,925,000 | 918 | 367 | 0.631739101 | ARHGAP18 |
| 9 | 68,850,000 | 69,000,000 | 919 | 430 | -0.848110341 | |
| 9 | 68,925,000 | 69,075,000 | 920 | 470 | -0.411250183 | ENSBTAG00000021446 |
| 9 | 69,000,000 | 69,150,000 | 921 | 469 | 0.818505811 | ENSBTAG00000021446 |
| 9 | 69,075,000 | 69,225,000 | 922 | 438 | 0.378736699 | L3MBTL3 |
| 9 | 69,150,000 | 69,300,000 | 923 | 808 | -0.246821587 | L3MBTL3,SAMD3 |
| 9 | 69,225,000 | 69,375,000 | 924 | 1053 | 0.296309612 | L3MBTL3,SAMD3 |
| 9 | 69,300,000 | 69,450,000 | 925 | 860 | 1.073870425 | SAMD3 |
| 9 | 69,375,000 | 69,525,000 | 926 | 848 | 0.800652155 | TMEM200A |
| 9 | 69,450,000 | 69,600,000 | 927 | 865 | 0.531296958 | TMEM200A |
| 9 | 69,525,000 | 69,675,000 | 928 | 746 | 0.88554201 | |
| 9 | 69,600,000 | 69,750,000 | 929 | 597 | 1.185442834 | |
| 9 | 69,675,000 | 69,825,000 | 930 | 414 | 0.777833189 | |
| 9 | 69,750,000 | 69,900,000 | 931 | 437 | -0.076264012 | |
| 9 | 69,825,000 | 69,975,000 | 932 | 672 | -0.201774812 | EPB41L2 |
| 9 | 69,900,000 | 70,050,000 | 933 | 652 | -0.520308076 | EPB41L2 |
| 9 | 69,975,000 | 70,125,000 | 934 | 586 | -0.886464725 | EPB41L2 |
| 9 | 70,050,000 | 70,200,000 | 935 | 595 | -0.353346612 | AKAP7 |
| 9 | 70,125,000 | 70,275,000 | 936 | 471 | 0.787025149 | AKAP7 |
| 9 | 70,200,000 | 70,350,000 | 937 | 468 | 0.799302903 | AKAP7 |
| 9 | 70,275,000 | 70,425,000 | 938 | 862 | 0.949725387 | AKAP7 |
| 9 | 70,350,000 | 70,500,000 | 939 | 888 | 0.900691012 | ARG1 |
| 9 | 70,425,000 | 70,575,000 | 940 | 697 | 0.144175114 | ARG1,MED23 |
| 9 | 70,500,000 | 70,650,000 | 941 | 921 | -0.180924531 | ARG1,ENPP3,MED23 |
| 9 | 70,575,000 | 70,725,000 | 942 | 949 | -0.013301912 | ENPP3 |
| 9 | 70,650,000 | 70,800,000 | 943 | 754 | 0.290449136 | ENPP1,ENPP3 |
| 9 | 70,725,000 | 70,875,000 | 944 | 512 | 0.25770072 | CTGF,ENPP1 |
| 9 | 70,800,000 | 70,950,000 | 945 | 416 | -0.152524903 | CTGF,ENPP1 |
| 9 | 70,875,000 | 71,025,000 | 946 | 446 | 0.273028418 | CTGF |
| 9 | 70,950,000 | 71,100,000 | 947 | 378 | 0.307645298 | |
| 9 | 71,025,000 | 71,175,000 | 948 | 391 | 0.81574726 | |
| 9 | 71,100,000 | 71,250,000 | 949 | 685 | 0.769364078 | MOXD1 |
| 9 | 71,175,000 | 71,325,000 | 950 | 842 | 0.129469639 | MOXD1 |
| 9 | 71,250,000 | 71,400,000 | 951 | 898 | -1.042814624 | MOXD1,STX7 |
| 9 | 71,325,000 | 71,475,000 | 952 | 913 | -2.100792628 | MOXD1,STX7,TAAR9 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 71,400,000 | 71,550,000 | 953 | 858 | -1.636004319 | STX7,TAAR9,ENSBTAG00000040354,ENSBTAG00000046954,ENSBTAG00000047327 |
| 9 | 71,475,000 | 71,625,000 | 954 | 1033 | -1.194192949 | ENSBTAG00000027223,ENSBTAG00000038447,ENSBTAG0000039058,ENSBTAG00000040354,ENSBTAG00000046954,ENSBTAG00000047327,ENSBTAG00000047912 |
| 9 | 71,550,000 | 71,700,000 | 955 | 940 | -1.161517388 | TAAR6,ENSBTAG00000026548,ENSBTAG00000027223,ENSBTAG00000038447,ENSBTAG00000039058,ENSBTAG0000040489,ENSBTAG00000047912 |
| 9 | 71,625,000 | 71,775,000 | 956 | 1251 | -0.637999393 | TAAR5,TAAR6,ENSBTAG00000026548,ENSBTAG00000038483,ENSBTAG00000038761,ENSBTAG00000039615,ENSBTAG00000040489,ENSBTAG00000040533 |
| 9 | 71,700,000 | 71,850,000 | 957 | 1478 | -1.239414792 | TAAR1,TAAR2,TAAR5,VNN1,ENSBTAG00000038483,ENSBTAG00000038761,ENSBTAG00000039615,ENSBTAG00000040533 |
| 9 | 71,775,000 | 71,925,000 | 958 | 1073 | -2.295635168 | TAAR1,TAAR2,VNN1,VNN2 |
| 9 | 71,850,000 | 72,000,000 | 959 | 1041 | -3.240283418 | RPS12,SLC18B1,VNN1,VNN2 |
| 9 | 71,925,000 | 72,075,000 | 960 | 902 | -2.264311188 | RPS12,SLC18B1 |
| 9 | 72,000,000 | 72,150,000 | 961 | 592 | -0.273224469 | |
| 9 | 72,075,000 | 72,225,000 | 962 | 405 | 0.065406738 | |
| 9 | 72,150,000 | 72,300,000 | 963 | 346 | 0.073651217 | |
| 9 | 72,225,000 | 72,375,000 | 964 | 538 | 0.612519145 | |
| 9 | 72,300,000 | 72,450,000 | 965 | 488 | 0.856290813 | |
| 9 | 72,375,000 | 72,525,000 | 966 | 567 | 0.707796045 | |
| 9 | 72,450,000 | 72,600,000 | 967 | 764 | 0.808487947 | |
| 9 | 72,525,000 | 72,675,000 | 968 | 636 | 0.889829077 | EYA4 |
| 9 | 72,600,000 | 72,750,000 | 969 | 495 | -0.403531899 | EYA4 |
| 9 | 72,675,000 | 72,825,000 | 970 | 388 | -1.842450004 | EYA4 |
| 9 | 72,750,000 | 72,900,000 | 971 | 514 | -0.960413522 | |
| 9 | 72,825,000 | 72,975,000 | 972 | 754 | -0.553338248 | |
| 9 | 72,900,000 | 73,050,000 | 973 | 733 | 0.508456763 | |
| 9 | 72,975,000 | 73,125,000 | 974 | 403 | 0.745745853 | TBPL1,TCF21 |
| 9 | 73,050,000 | 73,200,000 | 975 | 365 | 0.435953603 | SLC2A12,TBPL1,TCF21 |
| 9 | 73,125,000 | 73,275,000 | 976 | 545 | 0.958412601 | SLC2A12,TBPL1 |
| 9 | 73,200,000 | 73,350,000 | 977 | 436 | 1.126486897 | SGK1,SLC2A12 |
| 9 | 73,275,000 | 73,425,000 | 978 | 361 | 0.381758062 | SGK1 |
| 9 | 73,350,000 | 73,500,000 | 979 | 643 | 0.158659126 | |
| 9 | 73,425,000 | 73,575,000 | 980 | 851 | -0.111938358 | |
| 9 | 73,500,000 | 73,650,000 | 981 | 666 | 0.331434648 | |
| 9 | 73,575,000 | 73,725,000 | 982 | 524 | 0.99110632 | ENSBTAG00000026543 |
| 9 | 73,650,000 | 73,800,000 | 983 | 715 | -0.878319151 | ENSBTAG00000026543 |
| 9 | 73,725,000 | 73,875,000 | 984 | 1012 | -1.534842955 | |
| 9 | 73,800,000 | 73,950,000 | 985 | 855 | -3.234199761 | |
| 9 | 73,875,000 | 74,025,000 | 986 | 437 | -4.293378378 | ALDH8A1,HBS1L |
| 9 | 73,950,000 | 74,100,000 | 987 | 285 | -0.663687094 | ALDH8A1,HBS1L |
| 9 | 74,025,000 | 74,175,000 | 988 | 301 | -2.20612696 | HBS1L |
| 9 | 74,100,000 | 74,250,000 | 989 | 374 | -3.278287035 | MYB |
| 9 | 74,175,000 | 74,325,000 | 990 | 445 | -1.447758979 | MYB |
| 9 | 74,250,000 | 74,400,000 | 991 | 480 | -0.482570053 | AHI1,MYB |
| 9 | 74,325,000 | 74,475,000 | 992 | 400 | -0.873136162 | AHI1 |
| 9 | 74,400,000 | 74,550,000 | 993 | 318 | -1.650631638 | AHI1 |
| 9 | 74,475,000 | 74,625,000 | 994 | 345 | -2.425153122 | AHI1 |
| 9 | 74,550,000 | 74,700,000 | 995 | 397 | -0.93692267 | |
| 9 | 74,625,000 | 74,775,000 | 996 | 777 | 0.648932806 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 9 | 74,700,000 | 74,850,000 | 997 | 757 | 0.669185163 | |
| 9 | 74,775,000 | 74,925,000 | 998 | 319 | 0.135051612 | |
| 9 | 74,850,000 | 75,000,000 | 999 | 317 | 0.774334587 | |
| 9 | 74,925,000 | 75,075,000 | 1000 | 393 | 1.032746376 | PDE7B |
| 9 | 75,000,000 | 75,150,000 | 1001 | 313 | -0.30256866 | PDE7B |
| 9 | 75,075,000 | 75,225,000 | 1002 | 276 | -0.278345367 | PDE7B |
| 9 | 75,150,000 | 75,300,000 | 1003 | 282 | 0.69054702 | BCLAF1,MTFR2,PDE7B |
| 9 | 75,225,000 | 75,375,000 | 1004 | 248 | 0.632347033 | BCLAF1,MGC151537,MTFR2,ENSBTAG00000046168 |
| 9 | 75,300,000 | 75,450,000 | 1005 | 252 | 0.692333392 | MGC151537,ENSBTAG00000046168 |
| 9 | 75,375,000 | 75,525,000 | 1006 | 480 | 0.579090968 | MGC151537 |
| 9 | 75,450,000 | 75,600,000 | 1007 | 539 | 0.514771358 | MAP3K5,MGC151537 |
| 9 | 75,525,000 | 75,675,000 | 1008 | 687 | -2.333225018 | MAP3K5 |
| 9 | 75,600,000 | 75,750,000 | 1009 | 605 | -2.857808166 | MAP3K5 |
| 9 | 75,675,000 | 75,825,000 | 1010 | 486 | 0.34170268 | MAP3K5,PEX7 |
| 9 | 75,750,000 | 75,900,000 | 1011 | 892 | 0.417017669 | MAP3K5,PEX7,SLC35D3 |
| 9 | 75,825,000 | 75,975,000 | 1012 | 948 | 0.485479806 | PEX7,SLC35D3 |
| 9 | 75,900,000 | 76,050,000 | 1013 | 1056 | 0.782903626 | IL20RA,SLC35D3 |
| 9 | 75,975,000 | 76,125,000 | 1014 | 988 | 0.947351325 | IFNGR1,IL20RA,IL22RA2 |
| 9 | 76,050,000 | 76,200,000 | 1015 | 564 | 0.869193913 | IFNGR1,IL22RA2 |
| 9 | 76,125,000 | 76,275,000 | 1016 | 521 | 0.88114657 | |
| 9 | 76,200,000 | 76,350,000 | 1017 | 737 | 0.975313065 | |
| 9 | 76,275,000 | 76,425,000 | 1018 | 588 | 0.996799014 | OLIG3 |
| 9 | 76,350,000 | 76,500,000 | 1019 | 405 | 0.371477626 | OLIG3 |
| 9 | 76,425,000 | 76,575,000 | 1020 | 634 | 1.002992452 | |
| 9 | 76,500,000 | 76,650,000 | 1021 | 907 | 1.153723798 | |
| 9 | 76,575,000 | 76,725,000 | 1022 | 1009 | 0.549982312 | |
| 9 | 76,650,000 | 76,800,000 | 1023 | 750 | 0.189519216 | TNFAIP3 |
| 9 | 76,725,000 | 76,875,000 | 1024 | 442 | 0.133178056 | TNFAIP3 |
| 9 | 76,800,000 | 76,950,000 | 1025 | 395 | -0.251459778 | PERP |
| 9 | 76,875,000 | 77,025,000 | 1026 | 365 | -0.403375928 | PERP |
| 9 | 76,950,000 | 77,100,000 | 1027 | 351 | -0.321819655 | KIAA1244,PERP |
| 9 | 77,025,000 | 77,175,000 | 1028 | 652 | 0.512391273 | KIAA1244 |
| 9 | 77,100,000 | 77,250,000 | 1029 | 845 | 0.46640162 | HEBP2,KIAA1244,NHSL1 |
| 9 | 77,175,000 | 77,325,000 | 1030 | 590 | 0.196031405 | HEBP2,NHSL1 |
| 9 | 77,250,000 | 77,400,000 | 1031 | 394 | 0.56974588 | NHSL1 |
| 9 | 77,325,000 | 77,475,000 | 1032 | 360 | 0.682509399 | |
| 9 | 77,400,000 | 77,550,000 | 1033 | 351 | 0.796889238 | |
| 9 | 77,475,000 | 77,625,000 | 1034 | 312 | 0.834467854 | CCDC28A,ECT2L |
| 9 | 77,550,000 | 77,700,000 | 1035 | 404 | 0.779392033 | CCDC28A,ECT2L,REPS1 |
| 9 | 77,625,000 | 77,775,000 | 1036 | 609 | 1.051097606 | ECT2L,REPS1 |
| 9 | 77,700,000 | 77,850,000 | 1037 | 597 | 1.041204544 | ABRACL,REPS1 |
| 9 | 77,775,000 | 77,925,000 | 1038 | 463 | 0.086016507 | ABRACL,HECA |
| 9 | 77,850,000 | 78,000,000 | 1039 | 375 | -0.435735443 | HECA,TXLNB |
| 9 | 77,925,000 | 78,075,000 | 1040 | 366 | -0.497875535 | CITED2,TXLNB |
| 9 | 78,000,000 | 78,150,000 | 1041 | 525 | 0.427179362 | CITED2 |
| 9 | 78,075,000 | 78,225,000 | 1042 | 406 | 0.949124882 | |
| 9 | 78,150,000 | 78,300,000 | 1043 | 197 | 0.59992928 | |
| 9 | 78,225,000 | 78,375,000 | 1044 | 505 | -0.976948492 | |
| 9 | 78,300,000 | 78,450,000 | 1045 | 694 | -1.434800867 | |
| 9 | 78,375,000 | 78,525,000 | 1046 | 511 | -0.841094439 | |
| 9 | 78,450,000 | 78,600,000 | 1047 | 637 | 0.16978718 | |
| 9 | 78,525,000 | 78,675,000 | 1048 | 777 | 0.500841721 | |
| 9 | 78,600,000 | 78,750,000 | 1049 | 708 | 0.810536431 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 9 | 78,675,000 | 78,825,000 | 1050 | 740 | 0.757992955 | |
| 9 | 78,750,000 | 78,900,000 | 1051 | 563 | 0.103841728 | |
| 9 | 78,825,000 | 78,975,000 | 1052 | 382 | -0.120094829 | |
| 9 | 78,900,000 | 79,050,000 | 1053 | 553 | 0.050311851 | |
| 9 | 78,975,000 | 79,125,000 | 1054 | 561 | 0.024155766 | |
| 9 | 79,050,000 | 79,200,000 | 1055 | 336 | 0.318718715 | |
| 9 | 79,125,000 | 79,275,000 | 1056 | 319 | 0.49986611 | |
| 9 | 79,200,000 | 79,350,000 | 1057 | 461 | 0.760618619 | |
| 9 | 79,275,000 | 79,425,000 | 1058 | 650 | 1.068870873 | |
| 9 | 79,350,000 | 79,500,000 | 1059 | 632 | 1.189317334 | |
| 9 | 79,425,000 | 79,575,000 | 1060 | 647 | 0.155060826 | |
| 9 | 79,500,000 | 79,650,000 | 1061 | 628 | -0.758253105 | |
| 9 | 79,575,000 | 79,725,000 | 1062 | 576 | -0.735552278 | |
| 9 | 79,650,000 | 79,800,000 | 1063 | 648 | -0.326190367 | |
| 9 | 79,725,000 | 79,875,000 | 1064 | 836 | 0.100170985 | |
| 9 | 79,800,000 | 79,950,000 | 1065 | 728 | 0.17080943 | |
| 9 | 79,875,000 | 80,025,000 | 1066 | 613 | -0.092649155 | |
| 9 | 79,950,000 | 80,100,000 | 1067 | 802 | 0.103678342 | |
| 9 | 80,025,000 | 80,175,000 | 1068 | 548 | 0.256512016 | |
| 9 | 80,100,000 | 80,250,000 | 1069 | 503 | -0.277436564 | |
| 9 | 80,175,000 | 80,325,000 | 1070 | 716 | -0.042213248 | |
| 9 | 80,250,000 | 80,400,000 | 1071 | 569 | 0.006817998 | |
| 9 | 80,325,000 | 80,475,000 | 1072 | 630 | 0.257848328 | |
| 9 | 80,400,000 | 80,550,000 | 1073 | 1112 | 0.648197035 | |
| 9 | 80,475,000 | 80,625,000 | 1074 | 1121 | 0.704380912 | NMBR |
| 9 | 80,550,000 | 80,700,000 | 1075 | 777 | 0.390646487 | NMBR,VTA1 |
| 9 | 80,625,000 | 80,775,000 | 1076 | 692 | 0.614159946 | VTA1 |
| 9 | 80,700,000 | 80,850,000 | 1077 | 640 | 0.645902811 | VTA1 |
| 9 | 80,775,000 | 80,925,000 | 1078 | 601 | 0.219450138 | GPR126 |
| 9 | 80,850,000 | 81,000,000 | 1079 | 689 | -1.079263016 | GPR126 |
| 9 | 80,925,000 | 81,075,000 | 1080 | 684 | -1.137247646 | GPR126 |
| 9 | 81,000,000 | 81,150,000 | 1081 | 708 | -0.579168257 | |
| 9 | 81,075,000 | 81,225,000 | 1082 | 672 | -0.23393995 | |
| 9 | 81,150,000 | 81,300,000 | 1083 | 472 | 0.490924187 | HIVEP2 |
| 9 | 81,225,000 | 81,375,000 | 1084 | 523 | 0.317666846 | HIVEP2 |
| 9 | 81,300,000 | 81,450,000 | 1085 | 632 | 0.602915454 | |
| 9 | 81,375,000 | 81,525,000 | 1086 | 444 | 1.100950096 | |
| 9 | 81,450,000 | 81,600,000 | 1087 | 475 | 0.426230486 | AIG1 |
| 9 | 81,525,000 | 81,675,000 | 1088 | 443 | 0.006231787 | AIG1 |
| 9 | 81,600,000 | 81,750,000 | 1089 | 269 | 0.154454983 | AIG1 |
| 9 | 81,675,000 | 81,825,000 | 1090 | 317 | -0.118792035 | AIG1 |
| 9 | 81,750,000 | 81,900,000 | 1091 | 299 | -0.730520079 | AIG1 |
| 9 | 81,825,000 | 81,975,000 | 1092 | 276 | 0.047056204 | AIG1,DEADC1,PEX3 |
| 9 | 81,900,000 | 82,050,000 | 1093 | 660 | 1.129035634 | DEADC1,FUCA2,PEX3 |
| 9 | 81,975,000 | 82,125,000 | 1094 | 775 | 1.171313026 | FUCA2,PEX3 |
| 9 | 82,050,000 | 82,200,000 | 1095 | 740 | 0.31283554 | |
| 9 | 82,125,000 | 82,275,000 | 1096 | 859 | -0.130840152 | PHACTR2 |
| 9 | 82,200,000 | 82,350,000 | 1097 | 532 | -0.063572485 | PHACTR2 |
| 9 | 82,275,000 | 82,425,000 | 1098 | 292 | -0.298305386 | LTV1,PHACTR2,PLAGL1,ZC2HC1B |
| 9 | 82,350,000 | 82,500,000 | 1099 | 276 | -1.664385358 | LTV1,PLAGL1,ZC2HC1B |
| 9 | 82,425,000 | 82,575,000 | 1100 | 316 | -2.569214159 | SF3B5 |
| 9 | 82,500,000 | 82,650,000 | 1101 | 621 | -2.123198908 | SF3B5,STX11 |
| 9 | 82,575,000 | 82,725,000 | 1102 | 585 | -2.15876312 | STX11 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 9 | 82,650,000 | 82,800,000 | 1103 | 271 | -1.369626889 | UTRN |
| 9 | 82,725,000 | 82,875,000 | 1104 | 646 | 0.874478577 | UTRN |
| 9 | 82,800,000 | 82,950,000 | 1105 | 894 | 0.835297183 | UTRN |
| 9 | 82,875,000 | 83,025,000 | 1106 | 612 | 0.85857144 | UTRN |
| 9 | 82,950,000 | 83,100,000 | 1107 | 390 | 1.229711708 | UTRN |
| 9 | 83,025,000 | 83,175,000 | 1108 | 633 | 0.590681553 | UTRN |
| 9 | 83,100,000 | 83,250,000 | 1109 | 834 | 0.548235546 | UTRN |
| 9 | 83,175,000 | 83,325,000 | 1110 | 556 | 0.715101095 | UTRN |
| 9 | 83,250,000 | 83,400,000 | 1111 | 820 | 0.85987696 | UTRN |
| 9 | 83,325,000 | 83,475,000 | 1112 | 1359 | 0.997924078 | |
| 9 | 83,400,000 | 83,550,000 | 1113 | 1383 | 0.599092842 | |
| 9 | 83,475,000 | 83,625,000 | 1114 | 1099 | 0.260046223 | |
| 9 | 83,550,000 | 83,700,000 | 1115 | 1037 | 0.341415902 | |
| 9 | 83,625,000 | 83,775,000 | 1116 | 1275 | -0.303949021 | |
| 9 | 83,700,000 | 83,850,000 | 1117 | 1656 | -0.49452 | |
| 9 | 83,775,000 | 83,925,000 | 1118 | 1676 | -0.230368408 | |
| 9 | 83,850,000 | 84,000,000 | 1119 | 1362 | 0.287005751 | |
| 9 | 83,925,000 | 84,075,000 | 1120 | 973 | 0.580311486 | EPM2A |
| 9 | 84,000,000 | 84,150,000 | 1121 | 685 | 0.418654179 | EPM2A |
| 9 | 84,075,000 | 84,225,000 | 1122 | 612 | 0.333239164 | EPM2A,FBXO30 |
| 9 | 84,150,000 | 84,300,000 | 1123 | 419 | 0.146059353 | FBXO30,SHPRH |
| 9 | 84,225,000 | 84,375,000 | 1124 | 396 | 0.134478563 | SHPRH |
| 9 | 84,300,000 | 84,450,000 | 1125 | 602 | -0.90358587 | SHPRH |
| 9 | 84,375,000 | 84,525,000 | 1126 | 747 | -1.279906738 | |
| 9 | 84,450,000 | 84,600,000 | 1127 | 776 | -0.059344706 | |
| 9 | 84,525,000 | 84,675,000 | 1128 | 697 | 0.572019237 | |
| 9 | 84,600,000 | 84,750,000 | 1129 | 951 | 1.045264616 | GRM1 |
| 9 | 84,675,000 | 84,825,000 | 1130 | 940 | 1.102328239 | GRM1 |
| 9 | 84,750,000 | 84,900,000 | 1131 | 562 | -1.755064898 | GRM1 |
| 9 | 84,825,000 | 84,975,000 | 1132 | 627 | -2.546929501 | RAB32 |
| 9 | 84,900,000 | 85,050,000 | 1133 | 774 | -0.98617074 | ADGB,RAB32 |
| 9 | 84,975,000 | 85,125,000 | 1134 | 739 | -0.316070236 | ADGB |
| 9 | 85,050,000 | 85,200,000 | 1135 | 610 | -0.934140107 | ADGB |
| 9 | 85,125,000 | 85,275,000 | 1136 | 767 | -0.8110036 | ADGB |
| 9 | 85,200,000 | 85,350,000 | 1137 | 823 | 0.149582277 | ADGB |
| 9 | 85,275,000 | 85,425,000 | 1138 | 498 | 0.731367839 | |
| 9 | 85,350,000 | 85,500,000 | 1139 | 537 | 1.081240792 | |
| 9 | 85,425,000 | 85,575,000 | 1140 | 562 | 1.232785204 | |
| 9 | 85,500,000 | 85,650,000 | 1141 | 324 | 1.04299638 | STXBP5 |
| 9 | 85,575,000 | 85,725,000 | 1142 | 344 | 0.604371686 | STXBP5 |
| 9 | 85,650,000 | 85,800,000 | 1143 | 340 | 0.3552759 | STXBP5 |
| 9 | 85,725,000 | 85,875,000 | 1144 | 581 | 0.223318105 | STXBP5,ENSBTAG00000039444,ENSBTAG00000047224 |
| 9 | 85,800,000 | 85,950,000 | 1145 | 751 | 0.413378203 | SAMD5,ULBP3,ENSBTAG00000039444,ENSBTAG00000047224 |
| 9 | 85,875,000 | 86,025,000 | 1146 | 703 | 0.552181938 | SAMD5,ULBP3 |
| 9 | 85,950,000 | 86,100,000 | 1147 | 755 | -0.066319707 | SAMD5,ULBP3 |
| 9 | 86,025,000 | 86,175,000 | 1148 | 684 | 0.037225036 | |
| 9 | 86,100,000 | 86,250,000 | 1149 | 660 | 0.83499864 | |
| 9 | 86,175,000 | 86,325,000 | 1150 | 709 | -0.246777884 | |
| 9 | 86,250,000 | 86,400,000 | 1151 | 777 | -1.178003761 | |
| 9 | 86,325,000 | 86,475,000 | 1152 | 692 | -0.002389071 | |
| 9 | 86,400,000 | 86,550,000 | 1153 | 549 | 1.246759825 | |
| 9 | 86,475,000 | 86,625,000 | 1154 | 636 | 0.607617494 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 9 | 86,550,000 | 86,700,000 | 1155 | 570 | -0.171514136 | |
| 9 | 86,625,000 | 86,775,000 | 1156 | 620 | -2.096180727 | |
| 9 | 86,700,000 | 86,850,000 | 1157 | 751 | -1.703310949 | |
| 9 | 86,775,000 | 86,925,000 | 1158 | 783 | -0.05684809 | SASH1 |
| 9 | 86,850,000 | 87,000,000 | 1159 | 780 | -0.403022308 | SASH1 |
| 9 | 86,925,000 | 87,075,000 | 1160 | 941 | -2.240959769 | SASH1 |
| 9 | 87,000,000 | 87,150,000 | 1161 | 1197 | -2.180528601 | |
| 9 | 87,075,000 | 87,225,000 | 1162 | 1034 | -1.171216166 | |
| 9 | 87,150,000 | 87,300,000 | 1163 | 933 | -0.521968536 | |
| 9 | 87,225,000 | 87,375,000 | 1164 | 919 | 0.332370564 | |
| 9 | 87,300,000 | 87,450,000 | 1165 | 1040 | 1.015456602 | |
| 9 | 87,375,000 | 87,525,000 | 1166 | 1142 | 1.012681838 | |
| 9 | 87,450,000 | 87,600,000 | 1167 | 1113 | 0.194532873 | |
| 9 | 87,525,000 | 87,675,000 | 1168 | 1083 | 0.204418129 | |
| 9 | 87,600,000 | 87,750,000 | 1169 | 848 | 0.896656124 | |
| 9 | 87,675,000 | 87,825,000 | 1170 | 672 | 1.02139051 | TAB2 |
| 9 | 87,750,000 | 87,900,000 | 1171 | 938 | 0.893747116 | PPIL4,TAB2,ZC3H12D |
| 9 | 87,825,000 | 87,975,000 | 1172 | 1040 | -0.121737577 | KATNA1,MGC133692,PPIL4,ZC3H12D |
| 9 | 87,900,000 | 88,050,000 | 1173 | 862 | -0.436452884 | KATNA1,LATS1,MGC133692,PPIL4 |
| 9 | 87,975,000 | 88,125,000 | 1174 | 769 | 1.000077288 | KATNA1,LATS1,LRP11,NUP43,PCMT1 |
| 9 | 88,050,000 | 88,200,000 | 1175 | 1080 | 0.187464883 | LRP11,NUP43,PCMT1 |
| 9 | 88,125,000 | 88,275,000 | 1176 | 1286 | -0.176494253 | LRP11,RAET1G,ENSBTAG00000024751,ENSBTAG00000036061,ENSBTAG00000038891,ENSBTAG00000047902 |
| 9 | 88,200,000 | 88,350,000 | 1177 | 1129 | -0.480425133 | RAET1G,ENSBTAG00000024751,ENSBTAG00000036061,E NSBTAG00000038891,ENSBTAG00000039875,ENSBTAG0000047902 |
| 9 | 88,275,000 | 88,425,000 | 1178 | 1329 | -0.464024402 | PPP1R14C,RAET1G,ENSBTAG00000039875,ENSBTAG0000047902 |
| 9 | 88,350,000 | 88,500,000 | 1179 | 1346 | 0.107944077 | PPP1R14C,RAET1G |
| 9 | 88,425,000 | 88,575,000 | 1180 | 1020 | -0.330116816 | IYD,PPP1R14C |
| 9 | 88,500,000 | 88,650,000 | 1181 | 594 | -0.573756401 | IYD,PPP1R14C,ENSBTAG00000048114 |
| 9 | 88,575,000 | 88,725,000 | 1182 | 439 | -0.497955832 | IYD,ENSBTAG00000048114 |
| 9 | 88,650,000 | 88,800,000 | 1183 | 602 | -0.688952462 | |
| 9 | 88,725,000 | 88,875,000 | 1184 | 539 | -0.196988083 | |
| 9 | 88,800,000 | 88,950,000 | 1185 | 645 | 0.506486008 | |
| 9 | 88,875,000 | 89,025,000 | 1186 | 910 | 0.542217381 | PLEKHG1 |
| 9 | 88,950,000 | 89,100,000 | 1187 | 734 | 0.317764682 | PLEKHG1 |
| 9 | 89,025,000 | 89,175,000 | 1188 | 648 | 0.026116825 | MTHFD1L,PLEKHG1 |
| 9 | 89,100,000 | 89,250,000 | 1189 | 1088 | 0.309148623 | MTHFD1L,PLEKHG1 |
| 9 | 89,175,000 | 89,325,000 | 1190 | 1385 | 0.345267425 | MTHFD1L |
| 9 | 89,250,000 | 89,400,000 | 1191 | 1077 | -0.306714389 | MTHFD1L |
| 9 | 89,325,000 | 89,475,000 | 1192 | 897 | -0.078438446 | |
| 9 | 89,400,000 | 89,550,000 | 1193 | 1009 | -1.11144256 | |
| 9 | 89,475,000 | 89,625,000 | 1194 | 745 | -2.377184718 | AKAP12,RMND1,ZBTB2 |
| 9 | 89,550,000 | 89,700,000 | 1195 | 491 | -0.884735732 | AKAP12,C9H6orf211,RMND1,TOMM7,ZBTB2 |
| 9 | 89,625,000 | 89,775,000 | 1196 | 622 | 0.318226665 | C9H6orf211,CCDC170,RMND1,TOMM7 |
| 9 | 89,700,000 | 89,850,000 | 1197 | 681 | 0.078187785 | CCDC170 |
| 9 | 89,775,000 | 89,925,000 | 1198 | 477 | -0.127714229 | CCDC170 |
| 9 | 89,850,000 | 90,000,000 | 1199 | 293 | 0.610466023 | ESR1 |
| 9 | 89,925,000 | 90,075,000 | 1200 | 388 | -0.22802867 | ESR1 |
| 9 | 90,000,000 | 90,150,000 | 1201 | 730 | 0.629740682 | ESR1 |
| 9 | 90,075,000 | 90,225,000 | 1202 | 682 | 0.909129345 | ESR1 |
| 9 | 90,150,000 | 90,300,000 | 1203 | 607 | 0.35838716 | ESR1,SYNE1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------------|
| 9 | 90,225,000 | 90,375,000 | 1204 | 836 | 0.579426515 | ESR1,SYNE1 |
| 9 | 90,300,000 | 90,450,000 | 1205 | 895 | 0.858757709 | SYNE1 |
| 9 | 90,375,000 | 90,525,000 | 1206 | 824 | 1.233142007 | SYNE1 |
| 9 | 90,450,000 | 90,600,000 | 1207 | 1003 | 1.224623358 | SYNE1 |
| 9 | 90,525,000 | 90,675,000 | 1208 | 1533 | 1.035720102 | SYNE1 |
| 9 | 90,600,000 | 90,750,000 | 1209 | 1491 | 0.770234118 | SYNE1 |
| 9 | 90,675,000 | 90,825,000 | 1210 | 1027 | 0.076735263 | |
| 9 | 90,750,000 | 90,900,000 | 1211 | 819 | -0.035399032 | MYCT1,VIP |
| 9 | 90,825,000 | 90,975,000 | 1212 | 607 | 0.142872243 | MYCT1,VIP |
| 9 | 90,900,000 | 91,050,000 | 1213 | 620 | 0.122659836 | |
| 9 | 90,975,000 | 91,125,000 | 1214 | 670 | 0.705667033 | FBXO5,MTRF1L,RGS17 |
| 9 | 91,050,000 | 91,200,000 | 1215 | 602 | 0.645059185 | FBXO5,MTRF1L,RGS17 |
| 9 | 91,125,000 | 91,275,000 | 1216 | 455 | 0.304719645 | RGS17,ENSBTAG00000046219 |
| 9 | 91,200,000 | 91,350,000 | 1217 | 297 | -1.063355404 | ENSBTAG00000016405,ENSBTAG00000046219 |
| 9 | 91,275,000 | 91,425,000 | 1218 | 379 | 0.105135979 | ENSBTAG00000016405 |
| 9 | 91,350,000 | 91,500,000 | 1219 | 752 | -0.009901983 | |
| 9 | 91,425,000 | 91,575,000 | 1220 | 1161 | -0.570970906 | |
| 9 | 91,500,000 | 91,650,000 | 1221 | 1158 | -1.348090796 | |
| 9 | 91,575,000 | 91,725,000 | 1222 | 925 | -0.347963586 | |
| 9 | 91,650,000 | 91,800,000 | 1223 | 900 | 0.651415588 | |
| 9 | 91,725,000 | 91,875,000 | 1224 | 1348 | 0.915252243 | |
| 9 | 91,800,000 | 91,950,000 | 1225 | 1434 | 1.094245348 | |
| 9 | 91,875,000 | 92,025,000 | 1226 | 970 | 0.97359287 | |
| 9 | 91,950,000 | 92,100,000 | 1227 | 601 | 0.676486411 | |
| 9 | 92,025,000 | 92,175,000 | 1228 | 683 | 0.037461597 | OPRM1 |
| 9 | 92,100,000 | 92,250,000 | 1229 | 742 | -0.298459755 | OPRM1,ENSBTAG00000003489 |
| 9 | 92,175,000 | 92,325,000 | 1230 | 691 | -0.287745494 | OPRM1,ENSBTAG00000003489 |
| 9 | 92,250,000 | 92,400,000 | 1231 | 773 | -1.071351732 | ENSBTAG00000003489 |
| 9 | 92,325,000 | 92,475,000 | 1232 | 977 | -0.752835093 | ENSBTAG00000012674 |
| 9 | 92,400,000 | 92,550,000 | 1233 | 926 | 0.530739785 | ENSBTAG00000012674 |
| 9 | 92,475,000 | 92,625,000 | 1234 | 651 | 0.913709573 | ENSBTAG00000012674 |
| 9 | 92,550,000 | 92,700,000 | 1235 | 768 | 0.630684738 | |
| 9 | 92,625,000 | 92,775,000 | 1236 | 709 | 0.806431155 | |
| 9 | 92,700,000 | 92,850,000 | 1237 | 504 | 0.759890214 | SCAF8 |
| 9 | 92,775,000 | 92,925,000 | 1238 | 623 | 0.795932505 | SCAF8 |
| 9 | 92,850,000 | 93,000,000 | 1239 | 553 | 0.817099145 | SCAF8 |
| 9 | 92,925,000 | 93,075,000 | 1240 | 382 | 0.122725608 | |
| 9 | 93,000,000 | 93,150,000 | 1241 | 703 | 0.858970105 | TIAM2 |
| 9 | 93,075,000 | 93,225,000 | 1242 | 821 | 1.032714162 | TIAM2 |
| 9 | 93,150,000 | 93,300,000 | 1243 | 448 | 0.72165247 | CLDN20,TFB1M,TIAM2 |
| 9 | 93,225,000 | 93,375,000 | 1244 | 635 | 0.632752764 | CLDN20,NOX3,TFB1M,TIAM2 |
| 9 | 93,300,000 | 93,450,000 | 1245 | 1043 | 0.688610488 | NOX3,TFB1M |
| 9 | 93,375,000 | 93,525,000 | 1246 | 1023 | 0.675817518 | NOX3 |
| 9 | 93,450,000 | 93,600,000 | 1247 | 1160 | 0.446752187 | |
| 9 | 93,525,000 | 93,675,000 | 1248 | 1130 | 0.460893833 | ENSBTAG00000035623 |
| 9 | 93,600,000 | 93,750,000 | 1249 | 1054 | 0.544253092 | ENSBTAG00000035623 |
| 9 | 93,675,000 | 93,825,000 | 1250 | 932 | 0.321050439 | |
| 9 | 93,750,000 | 93,900,000 | 1251 | 841 | -1.035589218 | |
| 9 | 93,825,000 | 93,975,000 | 1252 | 872 | -2.039084287 | |
| 9 | 93,900,000 | 94,050,000 | 1253 | 667 | -1.920664318 | |
| 9 | 93,975,000 | 94,125,000 | 1254 | 685 | -2.308644986 | |
| 9 | 94,050,000 | 94,200,000 | 1255 | 1003 | -0.555585465 | |
| 9 | 94,125,000 | 94,275,000 | 1256 | 1074 | 0.455970633 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 9 | 94,200,000 | 94,350,000 | 1257 | 853 | 0.495177337 | |
| 9 | 94,275,000 | 94,425,000 | 1258 | 1007 | 0.880305099 | |
| 9 | 94,350,000 | 94,500,000 | 1259 | 987 | 1.038051792 | |
| 9 | 94,425,000 | 94,575,000 | 1260 | 713 | 0.869236896 | |
| 9 | 94,500,000 | 94,650,000 | 1261 | 818 | 0.906951578 | |
| 9 | 94,575,000 | 94,725,000 | 1262 | 1028 | 0.909194982 | |
| 9 | 94,650,000 | 94,800,000 | 1263 | 769 | 0.862604138 | |
| 9 | 94,725,000 | 94,875,000 | 1264 | 366 | 0.721304409 | |
| 9 | 94,800,000 | 94,950,000 | 1265 | 342 | 0.74898609 | ARID1B |
| 9 | 94,875,000 | 95,025,000 | 1266 | 350 | 0.70727678 | ARID1B |
| 9 | 94,950,000 | 95,100,000 | 1267 | 378 | 0.427491986 | ARID1B |
| 9 | 95,025,000 | 95,175,000 | 1268 | 665 | 0.309553388 | ARID1B,ENSBTAG00000045772 |
| 9 | 95,100,000 | 95,250,000 | 1269 | 634 | 0.334688614 | ARID1B,ENSBTAG00000045772 |
| 9 | 95,175,000 | 95,325,000 | 1270 | 630 | -0.03344928 | ARID1B |
| 9 | 95,250,000 | 95,400,000 | 1271 | 723 | 0.132650237 | ARID1B,C9H6ORF35 |
| 9 | 95,325,000 | 95,475,000 | 1272 | 638 | 1.005505867 | C9H6ORF35,ZDHHC14 |
| 9 | 95,400,000 | 95,550,000 | 1273 | 649 | 0.757659826 | ZDHHC14 |
| 9 | 95,475,000 | 95,625,000 | 1274 | 753 | 0.583902381 | ZDHHC14 |
| 9 | 95,550,000 | 95,700,000 | 1275 | 1215 | 0.661246433 | ZDHHC14 |
| 9 | 95,625,000 | 95,775,000 | 1276 | 1467 | 0.13569862 | ZDHHC14 |
| 9 | 95,700,000 | 95,850,000 | 1277 | 1116 | -0.206870618 | ZDHHC14 |
| 9 | 95,775,000 | 95,925,000 | 1278 | 543 | 0.577981366 | SNX9 |
| 9 | 95,850,000 | 96,000,000 | 1279 | 602 | 0.270389483 | SNX9 |
| 9 | 95,925,000 | 96,075,000 | 1280 | 768 | -0.064281785 | SNX9,SYNJ2 |
| 9 | 96,000,000 | 96,150,000 | 1281 | 546 | 0.257407821 | SERAC1,SYNJ2 |
| 9 | 96,075,000 | 96,225,000 | 1282 | 498 | 0.754373202 | GTF2H5,SERAC1,SYNJ2 |
| 9 | 96,150,000 | 96,300,000 | 1283 | 541 | 0.823582205 | GTF2H5,TULP4 |
| 9 | 96,225,000 | 96,375,000 | 1284 | 679 | 1.08911296 | TULP4 |
| 9 | 96,300,000 | 96,450,000 | 1285 | 776 | 1.082395349 | TMEM181,TULP4 |
| 9 | 96,375,000 | 96,525,000 | 1286 | 976 | 0.912411813 | DYNLT1,SYTL3,TMEM181,TULP4 |
| 9 | 96,450,000 | 96,600,000 | 1287 | 1386 | -0.383181352 | DYNLT1,EZR,SYTL3,TMEM181 |
| 9 | 96,525,000 | 96,675,000 | 1288 | 1316 | -0.868473744 | EZR,SYTL3 |
| 9 | 96,600,000 | 96,750,000 | 1289 | 1147 | -0.15887644 | EZR |
| 9 | 96,675,000 | 96,825,000 | 1290 | 1266 | 0.119870556 | RSPH3,TAGAP |
| 9 | 96,750,000 | 96,900,000 | 1291 | 1053 | -0.431312258 | RSPH3,TAGAP |
| 9 | 96,825,000 | 96,975,000 | 1292 | 814 | 0.082301593 | FNDC1 |
| 9 | 96,900,000 | 97,050,000 | 1293 | 879 | 0.861458215 | FNDC1 |
| 9 | 96,975,000 | 97,125,000 | 1294 | 835 | 0.535862358 | FNDC1 |
| 9 | 97,050,000 | 97,200,000 | 1295 | 816 | -0.197637202 | |
| 9 | 97,125,000 | 97,275,000 | 1296 | 904 | -1.348587946 | |
| 9 | 97,200,000 | 97,350,000 | 1297 | 925 | -2.208093869 | |
| 9 | 97,275,000 | 97,425,000 | 1298 | 1076 | -1.725075731 | SOD2 |
| 9 | 97,350,000 | 97,500,000 | 1299 | 945 | -0.703573834 | ACAT2,MRPL18,SOD2,TCP1,WTAP |
| 9 | 97,425,000 | 97,575,000 | 1300 | 920 | 0.485674885 | ACAT2,MAS1,MRPL18,PNLDC1,TCP1,WTAP |
| 9 | 97,500,000 | 97,650,000 | 1301 | 827 | 0.698772604 | IGF2R,MAS1,PNLDC1 |
| 9 | 97,575,000 | 97,725,000 | 1302 | 454 | 0.452635763 | IGF2R |
| 9 | 97,650,000 | 97,800,000 | 1303 | 533 | -0.273239279 | IGF2R,SLC22A1 |
| 9 | 97,725,000 | 97,875,000 | 1304 | 648 | 0.338662079 | IGF2R,SLC22A1,SLC22A2 |
| 9 | 97,800,000 | 97,950,000 | 1305 | 744 | 1.039215677 | SLC22A2,SLC22A3 |
| 9 | 97,875,000 | 98,025,000 | 1306 | 633 | 1.005280598 | PLG,SLC22A3 |
| 9 | 97,950,000 | 98,100,000 | 1307 | 719 | 0.59160391 | PLG,SLC22A3 |
| 9 | 98,025,000 | 98,175,000 | 1308 | 1302 | 0.563351471 | MAP3K4,PLG |
| 9 | 98,100,000 | 98,250,000 | 1309 | 1326 | 0.637584983 | AGPAT4,MAP3K4 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 9 | 98,175,000 | 98,325,000 | 1310 | 1175 | 0.505095565 | AGPAT4,MAP3K4 |
| 9 | 98,250,000 | 98,400,000 | 1311 | 1035 | 0.948156126 | AGPAT4 |
| 9 | 98,325,000 | 98,475,000 | 1312 | 1241 | 1.071784083 | AGPAT4,PARK2 |
| 9 | 98,400,000 | 98,550,000 | 1313 | 1850 | 0.866610433 | PARK2 |
| 9 | 98,475,000 | 98,625,000 | 1314 | 1887 | 0.8592596 | PARK2 |
| 9 | 98,550,000 | 98,700,000 | 1315 | 1525 | 0.88911755 | PARK2 |
| 9 | 98,625,000 | 98,775,000 | 1316 | 1489 | 0.648389207 | PARK2 |
| 9 | 98,700,000 | 98,850,000 | 1317 | 1388 | 0.144963159 | PARK2 |
| 9 | 98,775,000 | 98,925,000 | 1318 | 1066 | 0.519059101 | PARK2 |
| 9 | 98,850,000 | 99,000,000 | 1319 | 1101 | 1.078397409 | PARK2 |
| 9 | 98,925,000 | 99,075,000 | 1320 | 1568 | -0.153090156 | PARK2 |
| 9 | 99,000,000 | 99,150,000 | 1321 | 1681 | -0.166876833 | PARK2 |
| 9 | 99,075,000 | 99,225,000 | 1322 | 1523 | 0.563800362 | PARK2 |
| 9 | 99,150,000 | 99,300,000 | 1323 | 1854 | 0.842012739 | PARK2 |
| 9 | 99,225,000 | 99,375,000 | 1324 | 1562 | 1.137742233 | PARK2 |
| 9 | 99,300,000 | 99,450,000 | 1325 | 1003 | 0.937618817 | PARK2 |
| 9 | 99,375,000 | 99,525,000 | 1326 | 850 | 0.898331932 | PARK2 |
| 9 | 99,450,000 | 99,600,000 | 1327 | 582 | 1.051748703 | PARK2 |
| 9 | 99,525,000 | 99,675,000 | 1328 | 535 | 0.607184723 | PACRG,PARK2 |
| 9 | 99,600,000 | 99,750,000 | 1329 | 715 | 0.5877393 | PACRG |
| 9 | 99,675,000 | 99,825,000 | 1330 | 838 | 0.889254263 | PACRG |
| 9 | 99,750,000 | 99,900,000 | 1331 | 672 | 1.018145245 | PACRG |
| 9 | 99,825,000 | 99,975,000 | 1332 | 870 | 0.60413962 | PACRG |
| 9 | 99,900,000 | 100,050,000 | 1333 | 1104 | 0.39352229 | PACRG |
| 9 | 99,975,000 | 100,125,000 | 1334 | 825 | 0.407159999 | PACRG |
| 9 | 100,050,000 | 100,200,000 | 1335 | 763 | 0.452923143 | PACRG |
| 9 | 100,125,000 | 100,275,000 | 1336 | 665 | 0.01161895 | PACRG |
| 9 | 100,200,000 | 100,350,000 | 1337 | 428 | -0.656730763 | ENSBTAG00000037598 |
| 9 | 100,275,000 | 100,425,000 | 1338 | 322 | -0.556080808 | QKI,ENSBTAG00000037598 |
| 9 | 100,350,000 | 100,500,000 | 1339 | 407 | 0.116840428 | QKI |
| 9 | 100,425,000 | 100,575,000 | 1340 | 851 | 0.563185839 | QKI |
| 9 | 100,500,000 | 100,650,000 | 1341 | 1070 | 0.568642005 | |
| 9 | 100,575,000 | 100,725,000 | 1342 | 852 | 0.367986605 | |
| 9 | 100,650,000 | 100,800,000 | 1343 | 842 | 0.512900453 | |
| 9 | 100,725,000 | 100,875,000 | 1344 | 808 | 0.479359346 | |
| 9 | 100,800,000 | 100,950,000 | 1345 | 887 | -0.555158306 | |
| 9 | 100,875,000 | 101,025,000 | 1346 | 1025 | -0.495921669 | |
| 9 | 100,950,000 | 101,100,000 | 1347 | 1040 | 0.035486349 | |
| 9 | 101,025,000 | 101,175,000 | 1348 | 964 | -0.004592655 | |
| 9 | 101,100,000 | 101,250,000 | 1349 | 753 | -0.018020902 | |
| 9 | 101,175,000 | 101,325,000 | 1350 | 652 | -0.189623335 | |
| 9 | 101,250,000 | 101,400,000 | 1351 | 859 | -0.036929185 | |
| 9 | 101,325,000 | 101,475,000 | 1352 | 1045 | 0.628466016 | |
| 9 | 101,400,000 | 101,550,000 | 1353 | 1168 | -0.19350575 | |
| 9 | 101,475,000 | 101,625,000 | 1354 | 1175 | -0.778359713 | |
| 9 | 101,550,000 | 101,700,000 | 1355 | 1214 | 0.391090753 | |
| 9 | 101,625,000 | 101,775,000 | 1356 | 1407 | 0.753477198 | |
| 9 | 101,700,000 | 101,850,000 | 1357 | 1326 | -0.170295208 | |
| 9 | 101,775,000 | 101,925,000 | 1358 | 1196 | -1.607276343 | |
| 9 | 101,850,000 | 102,000,000 | 1359 | 991 | -0.740902448 | MGC134132,PDE10A |
| 9 | 101,925,000 | 102,075,000 | 1360 | 1221 | 0.18968512 | MGC134132,PDE10A |
| 9 | 102,000,000 | 102,150,000 | 1361 | 1866 | 0.28049654 | PDE10A,ENSBTAG00000046733 |
| 9 | 102,075,000 | 102,225,000 | 1362 | 1722 | 0.082593805 | ENSBTAG00000046733 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|---|
| 9 | 102,150,000 | 102,300,000 | 1363 | 1285 | 0.229410397 | |
| 9 | 102,225,000 | 102,375,000 | 1364 | 1383 | 0.369355146 | |
| 9 | 102,300,000 | 102,450,000 | 1365 | 1396 | 0.309042966 | |
| 9 | 102,375,000 | 102,525,000 | 1366 | 1311 | 0.472049558 | |
| 9 | 102,450,000 | 102,600,000 | 1367 | 1357 | 0.655805007 | |
| 9 | 102,525,000 | 102,675,000 | 1368 | 1189 | 0.666153803 | T |
| 9 | 102,600,000 | 102,750,000 | 1369 | 742 | -0.259086791 | T |
| 9 | 102,675,000 | 102,825,000 | 1370 | 486 | -1.542320123 | T |
| 9 | 102,750,000 | 102,900,000 | 1371 | 680 | -0.563508579 | MPC1,SFT2D1 |
| 9 | 102,825,000 | 102,975,000 | 1372 | 811 | -0.950960658 | MPC1,RPS6KA2,SFT2D1 |
| 9 | 102,900,000 | 103,050,000 | 1373 | 795 | -0.449588628 | RPS6KA2 |
| 9 | 102,975,000 | 103,125,000 | 1374 | 826 | 0.061818021 | RPS6KA2 |
| 9 | 103,050,000 | 103,200,000 | 1375 | 755 | 0.480279699 | RPS6KA2 |
| 9 | 103,125,000 | 103,275,000 | 1376 | 753 | 1.030955641 | |
| 9 | 103,200,000 | 103,350,000 | 1377 | 794 | -0.024598682 | RNASET2 |
| 9 | 103,275,000 | 103,425,000 | 1378 | 654 | -0.727077777 | FGFR1OP,RNASET2 |
| 9 | 103,350,000 | 103,500,000 | 1379 | 625 | -0.833761645 | FGFR1OP,GPR31,ENSBTAG00000014496,ENSBTAG00000026133 |
| 9 | 103,425,000 | 103,575,000 | 1380 | 1034 | -1.902249178 | GPR31,TTLL2,UNC93A,ENSBTAG00000014496,ENSBTAG0000026133 |
| 9 | 103,500,000 | 103,650,000 | 1381 | 1928 | -0.908631935 | TTLL2,UNC93A,ENSBTAG00000026133 |
| 9 | 103,575,000 | 103,725,000 | 1382 | 2119 | -0.279376657 | |
| 9 | 103,650,000 | 103,800,000 | 1383 | 1749 | 0.049855087 | |
| 9 | 103,725,000 | 103,875,000 | 1384 | 1429 | 0.504603261 | MLLT4 |
| 9 | 103,800,000 | 103,950,000 | 1385 | 1032 | 0.617593818 | KIF25,MLLT4 |
| 9 | 103,875,000 | 104,025,000 | 1386 | 1140 | 0.642365326 | FRMD1,KIF25,MLLT4 |
| 9 | 103,950,000 | 104,100,000 | 1387 | 1033 | 0.164717437 | FRMD1,KIF25,ENSBTAG00000047235 |
| 9 | 104,025,000 | 104,175,000 | 1388 | 868 | -0.001719717 | DACT2,ENSBTAG00000047235 |
| 9 | 104,100,000 | 104,250,000 | 1389 | 1201 | 0.458473322 | DACT2 |
| 9 | 104,175,000 | 104,325,000 | 1390 | 1322 | -0.569489255 | SMOC2 |
| 9 | 104,250,000 | 104,400,000 | 1391 | 1001 | -0.475725406 | SMOC2 |
| 9 | 104,325,000 | 104,475,000 | 1392 | 985 | 0.396005543 | SMOC2 |
| 9 | 104,400,000 | 104,550,000 | 1393 | 919 | 0.174016551 | |
| 9 | 104,475,000 | 104,625,000 | 1394 | 610 | 0.217081048 | |
| 9 | 104,550,000 | 104,700,000 | 1395 | 501 | 0.426539693 | |
| 9 | 104,625,000 | 104,775,000 | 1396 | 351 | 0.299548389 | THBS2 |
| 9 | 104,700,000 | 104,850,000 | 1397 | 501 | 0.750442266 | THBS2 |
| 9 | 104,775,000 | 104,925,000 | 1398 | 630 | 0.922618479 | |
| 9 | 104,850,000 | 105,000,000 | 1399 | 488 | 0.757081171 | WDR27 |
| 9 | 104,925,000 | 105,075,000 | 1400 | 369 | 0.900814293 | C9H6orf120,PHF10,WDR27 |
| 9 | 105,000,000 | 105,150,000 | 1401 | 287 | 1.047716619 | C9H6orf120,ERMARD,PHF10,TCTE3,WDR27 |
| 9 | 105,075,000 | 105,225,000 | 1402 | 291 | 0.786922788 | C9H6orf120,ERMARD,PHF10,TCTE3 |
| 9 | 105,150,000 | 105,300,000 | 1403 | 519 | 0.634705538 | ERMARD |
| 9 | 105,225,000 | 105,375,000 | 1404 | 575 | 0.655996081 | |
| 9 | 105,300,000 | 105,450,000 | 1405 | 443 | 0.825050782 | |
| 9 | 105,375,000 | 105,525,000 | 1406 | 359 | 0.626669379 | DLL1 |
| 9 | 105,450,000 | 105,600,000 | 1407 | 253 | 0.602360943 | DLL1,FAM120B |
| 9 | 105,525,000 | 105,675,000 | 1408 | 290 | 0.89559661 | FAM120B,PSMB1 |
| 9 | 105,600,000 | 105,708,250 | 1409 | 251 | 0.784105489 | PDCD2,PSMB1,TBP |
| 10 | 0 | 150,000 | 1 | 430 | -0.096323802 | |
| 10 | 75,000 | 225,000 | 2 | 411 | 0.218218449 | ENSBTAG00000047105 |
| 10 | 150,000 | 300,000 | 3 | 734 | 0.540271463 | ENSBTAG00000017396,ENSBTAG00000047105 |
| 10 | 225,000 | 375,000 | 4 | 992 | 0.983868764 | ENSBTAG00000003493,ENSBTAG00000017396 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|------------------------|
| 10 | 300,000 | 450,000 | 5 | 1064 | 0.631783701 | ENSBTAG00000003493 |
| 10 | 375,000 | 525,000 | 6 | 1140 | 0.447284348 | |
| 10 | 450,000 | 600,000 | 7 | 858 | 0.63259263 | ENSBTAG00000046432 |
| 10 | 525,000 | 675,000 | 8 | 759 | 0.164571279 | MCC,ENSBTAG00000046432 |
| 10 | 600,000 | 750,000 | 9 | 1013 | 0.438958671 | MCC |
| 10 | 675,000 | 825,000 | 10 | 669 | 0.684391114 | MCC |
| 10 | 750,000 | 900,000 | 11 | 603 | -0.118877939 | MCC |
| 10 | 825,000 | 975,000 | 12 | 779 | -1.574126382 | DCP2,MCC |
| 10 | 900,000 | 1,050,000 | 13 | 538 | -2.800433149 | DCP2,MCC,REEP5 |
| 10 | 975,000 | 1,125,000 | 14 | 452 | -1.097668562 | APC,DCP2,REEP5,SRP19 |
| 10 | 1,050,000 | 1,200,000 | 15 | 492 | 0.029712525 | APC,REEP5,SRP19 |
| 10 | 1,125,000 | 1,275,000 | 16 | 541 | 0.242857425 | APC |
| 10 | 1,200,000 | 1,350,000 | 17 | 602 | 0.608886339 | APC |
| 10 | 1,275,000 | 1,425,000 | 18 | 783 | 1.160496263 | |
| 10 | 1,350,000 | 1,500,000 | 19 | 756 | 0.63666863 | EPB41L4A |
| 10 | 1,425,000 | 1,575,000 | 20 | 700 | 0.299964187 | EPB41L4A |
| 10 | 1,500,000 | 1,650,000 | 21 | 650 | 0.191153959 | EPB41L4A |
| 10 | 1,575,000 | 1,725,000 | 22 | 395 | -0.822188134 | EPB41L4A |
| 10 | 1,650,000 | 1,800,000 | 23 | 595 | -0.882593029 | EPB41L4A |
| 10 | 1,725,000 | 1,875,000 | 24 | 1122 | -1.392132003 | EPB41L4A |
| 10 | 1,800,000 | 1,950,000 | 25 | 1147 | -1.414800558 | |
| 10 | 1,875,000 | 2,025,000 | 26 | 1030 | -0.636491645 | |
| 10 | 1,950,000 | 2,100,000 | 27 | 901 | 0.215575461 | |
| 10 | 2,025,000 | 2,175,000 | 28 | 927 | 0.944004509 | NREP |
| 10 | 2,100,000 | 2,250,000 | 29 | 1059 | 0.791979831 | NREP |
| 10 | 2,175,000 | 2,325,000 | 30 | 1085 | 0.537284594 | NREP |
| 10 | 2,250,000 | 2,400,000 | 31 | 1245 | 0.427258906 | YTHDC2 |
| 10 | 2,325,000 | 2,475,000 | 32 | 1018 | 0.42600745 | YTHDC2 |
| 10 | 2,400,000 | 2,550,000 | 33 | 617 | -0.681417932 | YTHDC2 |
| 10 | 2,475,000 | 2,625,000 | 34 | 718 | -3.15169572 | |
| 10 | 2,550,000 | 2,700,000 | 35 | 885 | -1.2773679 | |
| 10 | 2,625,000 | 2,775,000 | 36 | 1031 | 1.192817852 | |
| 10 | 2,700,000 | 2,850,000 | 37 | 1385 | 1.253797369 | |
| 10 | 2,775,000 | 2,925,000 | 38 | 1239 | 1.175495752 | |
| 10 | 2,850,000 | 3,000,000 | 39 | 992 | 0.597078816 | |
| 10 | 2,925,000 | 3,075,000 | 40 | 588 | 0.145126023 | |
| 10 | 3,000,000 | 3,150,000 | 41 | 277 | -0.052452755 | |
| 10 | 3,075,000 | 3,225,000 | 42 | 556 | 0.417052039 | KCNN2 |
| 10 | 3,150,000 | 3,300,000 | 43 | 955 | -1.283781186 | KCNN2 |
| 10 | 3,225,000 | 3,375,000 | 44 | 1144 | -1.90610163 | KCNN2 |
| 10 | 3,300,000 | 3,450,000 | 45 | 941 | -1.101981472 | KCNN2 |
| 10 | 3,375,000 | 3,525,000 | 46 | 1103 | -0.512437585 | |
| 10 | 3,450,000 | 3,600,000 | 47 | 1491 | -0.210011887 | ENSBTAG00000023186 |
| 10 | 3,525,000 | 3,675,000 | 48 | 1401 | 0.203642337 | ENSBTAG00000023186 |
| 10 | 3,600,000 | 3,750,000 | 49 | 1150 | 0.784313279 | |
| 10 | 3,675,000 | 3,825,000 | 50 | 959 | -0.245445583 | |
| 10 | 3,750,000 | 3,900,000 | 51 | 945 | -0.156974983 | |
| 10 | 3,825,000 | 3,975,000 | 52 | 869 | 0.658471347 | TRIM36 |
| 10 | 3,900,000 | 4,050,000 | 53 | 793 | 0.905623219 | PGGT1B,TRIM36 |
| 10 | 3,975,000 | 4,125,000 | 54 | 722 | 1.169709955 | CCDC112,PGGT1B |
| 10 | 4,050,000 | 4,200,000 | 55 | 777 | 0.77061695 | CCDC112,PGGT1B |
| 10 | 4,125,000 | 4,275,000 | 56 | 1115 | 0.386258854 | |
| 10 | 4,200,000 | 4,350,000 | 57 | 964 | 0.476892021 | FEM1C |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|-------------------------------|
| 10 | 4,275,000 | 4,425,000 | 58 | 677 | 0.412402405 | FEM1C,TICAM2,TMED7 |
| 10 | 4,350,000 | 4,500,000 | 59 | 1187 | 0.277039256 | TICAM2,TMED7 |
| 10 | 4,425,000 | 4,575,000 | 60 | 1286 | 0.693154529 | |
| 10 | 4,500,000 | 4,650,000 | 61 | 726 | -0.34696435 | ATG12,CDO1,ENSBTAG00000048058 |
| 10 | 4,575,000 | 4,725,000 | 62 | 670 | -1.795774828 | ATG12,CDO1,ENSBTAG00000048058 |
| 10 | 4,650,000 | 4,800,000 | 63 | 817 | -0.675978215 | AQPEP,ATG12 |
| 10 | 4,725,000 | 4,875,000 | 64 | 798 | 0.132271149 | AQPEP,ATG12,C10H11ORF46 |
| 10 | 4,800,000 | 4,950,000 | 65 | 709 | 0.818185079 | AQPEP,C10H11ORF46 |
| 10 | 4,875,000 | 5,025,000 | 66 | 508 | 0.585845792 | C10H11ORF46,P33MONOX,SIMC1 |
| 10 | 4,950,000 | 5,100,000 | 67 | 462 | -0.252344752 | P33MONOX,SIMC1 |
| 10 | 5,025,000 | 5,175,000 | 68 | 585 | 0.029511797 | THOC3 |
| 10 | 5,100,000 | 5,250,000 | 69 | 460 | 0.699766583 | CPLX2,THOC3 |
| 10 | 5,175,000 | 5,325,000 | 70 | 347 | 0.952718297 | CPLX2 |
| 10 | 5,250,000 | 5,400,000 | 71 | 655 | 0.273286155 | |
| 10 | 5,325,000 | 5,475,000 | 72 | 890 | -0.395617301 | HRH2 |
| 10 | 5,400,000 | 5,550,000 | 73 | 848 | -1.188664794 | HRH2 |
| 10 | 5,475,000 | 5,625,000 | 74 | 930 | 0.312288138 | SFXN1 |
| 10 | 5,550,000 | 5,700,000 | 75 | 889 | 1.054465277 | DRD1,SFXN1 |
| 10 | 5,625,000 | 5,775,000 | 76 | 792 | 0.973466921 | DRD1 |
| 10 | 5,700,000 | 5,850,000 | 77 | 712 | 1.303318794 | |
| 10 | 5,775,000 | 5,925,000 | 78 | 682 | 0.888024982 | |
| 10 | 5,850,000 | 6,000,000 | 79 | 918 | -0.958139584 | |
| 10 | 5,925,000 | 6,075,000 | 80 | 1440 | -0.56586692 | |
| 10 | 6,000,000 | 6,150,000 | 81 | 1562 | 0.598254599 | |
| 10 | 6,075,000 | 6,225,000 | 82 | 973 | 0.694875714 | |
| 10 | 6,150,000 | 6,300,000 | 83 | 1012 | -0.055251957 | |
| 10 | 6,225,000 | 6,375,000 | 84 | 1466 | 0.254676782 | |
| 10 | 6,300,000 | 6,450,000 | 85 | 1380 | 0.744005536 | GCNT4 |
| 10 | 6,375,000 | 6,525,000 | 86 | 1261 | 0.544485095 | ANKRD31,GCNT4 |
| 10 | 6,450,000 | 6,600,000 | 87 | 1073 | 0.629413123 | ANKRD31 |
| 10 | 6,525,000 | 6,675,000 | 88 | 1202 | 0.653398644 | ANKRD31 |
| 10 | 6,600,000 | 6,750,000 | 89 | 1088 | 0.512404787 | COL4A3BP,HMGCR |
| 10 | 6,675,000 | 6,825,000 | 90 | 715 | 0.012470153 | COL4A3BP,HMGCR |
| 10 | 6,750,000 | 6,900,000 | 91 | 774 | 0.60329583 | COL4A3BP,POLK |
| 10 | 6,825,000 | 6,975,000 | 92 | 850 | 0.899118104 | ANKDD1B,COL4A3BP,POLK |
| 10 | 6,900,000 | 7,050,000 | 93 | 925 | 0.072462846 | ANKDD1B,MGC157319,POLK |
| 10 | 6,975,000 | 7,125,000 | 94 | 931 | -0.334990696 | ANKDD1B,MGC157319 |
| 10 | 7,050,000 | 7,200,000 | 95 | 936 | 0.863671313 | |
| 10 | 7,125,000 | 7,275,000 | 96 | 1194 | 1.302767691 | |
| 10 | 7,200,000 | 7,350,000 | 97 | 1566 | 0.27428704 | SV2C |
| 10 | 7,275,000 | 7,425,000 | 98 | 1868 | -0.121697422 | SV2C |
| 10 | 7,350,000 | 7,500,000 | 99 | 1754 | 0.511358339 | SV2C |
| 10 | 7,425,000 | 7,575,000 | 100 | 1291 | -0.20023961 | IQGAP2,SV2C |
| 10 | 7,500,000 | 7,650,000 | 101 | 1037 | -0.681302526 | IQGAP2,SV2C |
| 10 | 7,575,000 | 7,725,000 | 102 | 1208 | 0.104819269 | IQGAP2 |
| 10 | 7,650,000 | 7,800,000 | 103 | 1293 | -0.184715335 | F2RL2,IQGAP2 |
| 10 | 7,725,000 | 7,875,000 | 104 | 1168 | 0.11215809 | F2RL2,IQGAP2 |
| 10 | 7,800,000 | 7,950,000 | 105 | 1237 | 0.656055539 | F2R,IQGAP2 |
| 10 | 7,875,000 | 8,025,000 | 106 | 1047 | 0.81591968 | F2R,F2RL1,S100Z |
| 10 | 7,950,000 | 8,100,000 | 107 | 836 | 0.611878678 | CRHBP,F2RL1,S100Z |
| 10 | 8,025,000 | 8,175,000 | 108 | 761 | 0.604096057 | AGGF1,CRHBP |
| 10 | 8,100,000 | 8,250,000 | 109 | 730 | 0.898389354 | AGGF1 |
| 10 | 8,175,000 | 8,325,000 | 110 | 833 | 0.496478736 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 10 | 8,250,000 | 8,400,000 | 111 | 801 | 0.379202667 | |
| 10 | 8,325,000 | 8,475,000 | 112 | 908 | 0.292169926 | PDE8B |
| 10 | 8,400,000 | 8,550,000 | 113 | 1192 | 0.360238366 | PDE8B,WDR41 |
| 10 | 8,475,000 | 8,625,000 | 114 | 1079 | 0.664104243 | PDE8B,WDR41 |
| 10 | 8,550,000 | 8,700,000 | 115 | 915 | 0.970781194 | OTP,WDR41 |
| 10 | 8,625,000 | 8,775,000 | 116 | 682 | 1.07158814 | OTP,TBCA |
| 10 | 8,700,000 | 8,850,000 | 117 | 468 | 0.005816006 | TBCA |
| 10 | 8,775,000 | 8,925,000 | 118 | 683 | 0.270066377 | TBCA |
| 10 | 8,850,000 | 9,000,000 | 119 | 545 | 0.540361775 | |
| 10 | 8,925,000 | 9,075,000 | 120 | 330 | 0.689069683 | AP3B1 |
| 10 | 9,000,000 | 9,150,000 | 121 | 290 | 1.286287123 | AP3B1 |
| 10 | 9,075,000 | 9,225,000 | 122 | 527 | 0.619096096 | AP3B1 |
| 10 | 9,150,000 | 9,300,000 | 123 | 992 | 0.122085726 | AP3B1 |
| 10 | 9,225,000 | 9,375,000 | 124 | 1085 | -0.886264534 | AP3B1,SCAMP1 |
| 10 | 9,300,000 | 9,450,000 | 125 | 1085 | -1.617022224 | AP3B1,SCAMP1 |
| 10 | 9,375,000 | 9,525,000 | 126 | 1160 | -0.92818313 | LHFPL2,SCAMP1 |
| 10 | 9,450,000 | 9,600,000 | 127 | 1014 | -0.267416741 | LHFPL2,SCAMP1 |
| 10 | 9,525,000 | 9,675,000 | 128 | 903 | -0.775617091 | LHFPL2 |
| 10 | 9,600,000 | 9,750,000 | 129 | 835 | -0.331548838 | |
| 10 | 9,675,000 | 9,825,000 | 130 | 661 | 0.395757504 | ARSB |
| 10 | 9,750,000 | 9,900,000 | 131 | 686 | 0.504740439 | ARSB |
| 10 | 9,825,000 | 9,975,000 | 132 | 782 | 0.539604337 | ARSB |
| 10 | 9,900,000 | 10,050,000 | 133 | 623 | 0.116529174 | ARSB,DMGDH |
| 10 | 9,975,000 | 10,125,000 | 134 | 584 | 0.230377872 | BHMT2,DMGDH |
| 10 | 10,050,000 | 10,200,000 | 135 | 748 | -0.950626191 | BHMT,BHMT2,DMGDH |
| 10 | 10,125,000 | 10,275,000 | 136 | 565 | -1.858624657 | BHMT,JMY |
| 10 | 10,200,000 | 10,350,000 | 137 | 391 | -1.29082143 | JMY |
| 10 | 10,275,000 | 10,425,000 | 138 | 641 | -0.313032476 | HOMER1,JMY |
| 10 | 10,350,000 | 10,500,000 | 139 | 766 | -0.455296858 | HOMER1 |
| 10 | 10,425,000 | 10,575,000 | 140 | 638 | -2.120476955 | HOMER1,PAPD4 |
| 10 | 10,500,000 | 10,650,000 | 141 | 744 | -1.198590335 | PAPD4 |
| 10 | 10,575,000 | 10,725,000 | 142 | 893 | -0.628251181 | CMYA5,PAPD4 |
| 10 | 10,650,000 | 10,800,000 | 143 | 1069 | 0.027455762 | CMYA5 |
| 10 | 10,725,000 | 10,875,000 | 144 | 1012 | 0.138476037 | |
| 10 | 10,800,000 | 10,950,000 | 145 | 805 | -0.084484787 | MTX3,THBS4 |
| 10 | 10,875,000 | 11,025,000 | 146 | 1148 | 0.361779315 | MTX3,THBS4 |
| 10 | 10,950,000 | 11,100,000 | 147 | 1459 | 0.245884813 | SERINC5,THBS4 |
| 10 | 11,025,000 | 11,175,000 | 148 | 1365 | -0.106941141 | SERINC5 |
| 10 | 11,100,000 | 11,250,000 | 149 | 1341 | -0.103562932 | SERINC5 |
| 10 | 11,175,000 | 11,325,000 | 150 | 881 | 0.026904855 | |
| 10 | 11,250,000 | 11,400,000 | 151 | 312 | -0.404081783 | GNPNAT1,STYX |
| 10 | 11,325,000 | 11,475,000 | 152 | 436 | 1.202486851 | ERO1L,GNPNAT1,PSMC6,STYX |
| 10 | 11,400,000 | 11,550,000 | 153 | 711 | 1.026691616 | ERO1L,GPR137C,PSMC6 |
| 10 | 11,475,000 | 11,625,000 | 154 | 813 | 0.749843007 | ERO1L,GPR137C,TXNDC16 |
| 10 | 11,550,000 | 11,700,000 | 155 | 1061 | 0.652454843 | GPR137C,TXNDC16 |
| 10 | 11,625,000 | 11,775,000 | 156 | 1044 | 0.200438132 | PTGER2,TXNDC16 |
| 10 | 11,700,000 | 11,850,000 | 157 | 616 | -0.312988491 | ANKDD1A,PTGER2 |
| 10 | 11,775,000 | 11,925,000 | 158 | 582 | 0.74195679 | ANKDD1A,MTFMT,PTGER2,SPG21 |
| 10 | 11,850,000 | 12,000,000 | 159 | 819 | 0.954985965 | KBTBD13,MTFMT,RASL12,SLC51B,SPG21 |
| 10 | 11,925,000 | 12,075,000 | 160 | 661 | 0.462433419 | CLPX,KBTBD13,PDCD7,RASL12,SLC51B |
| 10 | 12,000,000 | 12,150,000 | 161 | 662 | -0.90315639 | CILP,CLPX,PDCD7 |
| 10 | 12,075,000 | 12,225,000 | 162 | 594 | -0.609276493 | CILP,IGDCC3,PARP16 |
| 10 | 12,150,000 | 12,300,000 | 163 | 361 | 0.044456894 | IGDCC3,IGDCC4,PARP16 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 10 | 12,225,000 | 12,375,000 | 164 | 388 | 0.42818103 | DPP8,IGDCC3,IGDCC4 |
| 10 | 12,300,000 | 12,450,000 | 165 | 398 | 0.77145046 | DPP8,PTPLAD1,VWA9 |
| 10 | 12,375,000 | 12,525,000 | 166 | 352 | 0.732017568 | DENND4A,PTPLAD1,SLC24A1,VWA9 |
| 10 | 12,450,000 | 12,600,000 | 167 | 225 | 0.289703981 | DENND4A,SLC24A1 |
| 10 | 12,525,000 | 12,675,000 | 168 | 235 | -0.307361713 | DENND4A |
| 10 | 12,600,000 | 12,750,000 | 169 | 304 | -0.72143726 | MEGF11,RAB11A |
| 10 | 12,675,000 | 12,825,000 | 170 | 751 | -2.546763841 | MEGF11,RAB11A |
| 10 | 12,750,000 | 12,900,000 | 171 | 1078 | -1.222731547 | MEGF11 |
| 10 | 12,825,000 | 12,975,000 | 172 | 975 | 0.720084788 | |
| 10 | 12,900,000 | 13,050,000 | 173 | 1022 | 0.625127866 | |
| 10 | 12,975,000 | 13,125,000 | 174 | 1031 | -0.230657738 | |
| 10 | 13,050,000 | 13,200,000 | 175 | 1035 | 0.004155908 | DIS3L,TIPIN |
| 10 | 13,125,000 | 13,275,000 | 176 | 798 | 0.844943955 | DIS3L,MAP2K1,TIPIN |
| 10 | 13,200,000 | 13,350,000 | 177 | 423 | 0.702427547 | MAP2K1,RPL4,SNAPC5,TIPIN,ZWILCH |
| 10 | 13,275,000 | 13,425,000 | 178 | 327 | 0.468838956 | LCTL,MAP2K1,RPL4,SNAPC5,ZWILCH |
| 10 | 13,350,000 | 13,500,000 | 179 | 515 | 0.268203543 | LCTL,ZWILCH |
| 10 | 13,425,000 | 13,575,000 | 180 | 548 | -0.171955717 | SMAD6 |
| 10 | 13,500,000 | 13,650,000 | 181 | 622 | 0.215875493 | SMAD6 |
| 10 | 13,575,000 | 13,725,000 | 182 | 1167 | 0.818424477 | SMAD6 |
| 10 | 13,650,000 | 13,800,000 | 183 | 1276 | 0.653525441 | |
| 10 | 13,725,000 | 13,875,000 | 184 | 1021 | 0.570563865 | |
| 10 | 13,800,000 | 13,950,000 | 185 | 1131 | 0.695087167 | |
| 10 | 13,875,000 | 14,025,000 | 186 | 895 | 0.646911941 | MGC152585,SMAD3 |
| 10 | 13,950,000 | 14,100,000 | 187 | 735 | 0.677083843 | IQCH,MGC152585,SMAD3 |
| 10 | 14,025,000 | 14,175,000 | 188 | 685 | 0.602994637 | IQCH,MGC152585 |
| 10 | 14,100,000 | 14,250,000 | 189 | 726 | 0.614852925 | IQCH |
| 10 | 14,175,000 | 14,325,000 | 190 | 897 | 0.443007882 | IQCH |
| 10 | 14,250,000 | 14,400,000 | 191 | 675 | -0.334945539 | C15orf61,IQCH,MAP2K5 |
| 10 | 14,325,000 | 14,475,000 | 192 | 772 | -0.568754151 | C15orf61,MAP2K5 |
| 10 | 14,400,000 | 14,550,000 | 193 | 710 | -0.513274195 | MAP2K5 |
| 10 | 14,475,000 | 14,625,000 | 194 | 651 | 0.383823121 | MAP2K5 |
| 10 | 14,550,000 | 14,700,000 | 195 | 811 | 0.719514167 | MAP2K5,SKOR1 |
| 10 | 14,625,000 | 14,775,000 | 196 | 726 | 0.710620968 | MAP2K5,SKOR1 |
| 10 | 14,700,000 | 14,850,000 | 197 | 528 | 0.543115648 | |
| 10 | 14,775,000 | 14,925,000 | 198 | 370 | 0.174533588 | PIAS1 |
| 10 | 14,850,000 | 15,000,000 | 199 | 274 | 0.155752435 | PIAS1 |
| 10 | 14,925,000 | 15,075,000 | 200 | 512 | 0.545702526 | CALML4,CLN6,PIAS1 |
| 10 | 15,000,000 | 15,150,000 | 201 | 778 | 0.19445084 | CALML4,CLN6,FEM1B,ITGA11,PIAS1 |
| 10 | 15,075,000 | 15,225,000 | 202 | 957 | -0.859131423 | FEM1B,ITGA11 |
| 10 | 15,150,000 | 15,300,000 | 203 | 1157 | -0.929319585 | ITGA11 |
| 10 | 15,225,000 | 15,375,000 | 204 | 1046 | -0.841538897 | |
| 10 | 15,300,000 | 15,450,000 | 205 | 796 | -0.398052634 | |
| 10 | 15,375,000 | 15,525,000 | 206 | 818 | 0.368130113 | CORO2B |
| 10 | 15,450,000 | 15,600,000 | 207 | 973 | -0.257201312 | ANP32A,CORO2B,ENSBTAG00000045866 |
| 10 | 15,525,000 | 15,675,000 | 208 | 898 | -0.516077203 | ANP32A,CORO2B,ENSBTAG00000045866 |
| 10 | 15,600,000 | 15,750,000 | 209 | 877 | -0.026169507 | ANP32A,SPESP1 |
| 10 | 15,675,000 | 15,825,000 | 210 | 971 | -0.246275817 | SPESP1 |
| 10 | 15,750,000 | 15,900,000 | 211 | 1293 | -0.830917187 | NOX5,SPESP1 |
| 10 | 15,825,000 | 15,975,000 | 212 | 1308 | -0.850104355 | NOX5 |
| 10 | 15,900,000 | 16,050,000 | 213 | 702 | -0.350884427 | |
| 10 | 15,975,000 | 16,125,000 | 214 | 334 | 0.131854572 | GLCE |
| 10 | 16,050,000 | 16,200,000 | 215 | 848 | 0.790841254 | GLCE,PAQR5 |
| 10 | 16,125,000 | 16,275,000 | 216 | 1142 | 0.938759619 | KIF23,PAQR5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 16,200,000 | 16,350,000 | 217 | 960 | 1.089171344 | KIF23,PAQR5,RPLP1 |
| 10 | 16,275,000 | 16,425,000 | 218 | 1109 | 0.980154602 | KIF23,RPLP1 |
| 10 | 16,350,000 | 16,500,000 | 219 | 1073 | 0.864116279 | |
| 10 | 16,425,000 | 16,575,000 | 220 | 786 | 0.776445291 | |
| 10 | 16,500,000 | 16,650,000 | 221 | 736 | 0.325919469 | |
| 10 | 16,575,000 | 16,725,000 | 222 | 829 | 0.506070821 | |
| 10 | 16,650,000 | 16,800,000 | 223 | 978 | -0.006962397 | |
| 10 | 16,725,000 | 16,875,000 | 224 | 1073 | -0.16572094 | |
| 10 | 16,800,000 | 16,950,000 | 225 | 849 | 0.393264234 | TLE3 |
| 10 | 16,875,000 | 17,025,000 | 226 | 692 | 0.089546972 | TLE3 |
| 10 | 16,950,000 | 17,100,000 | 227 | 815 | -0.317717538 | |
| 10 | 17,025,000 | 17,175,000 | 228 | 1159 | 0.316908827 | |
| 10 | 17,100,000 | 17,250,000 | 229 | 879 | 0.705921918 | ENSBTAG00000030439 |
| 10 | 17,175,000 | 17,325,000 | 230 | 542 | -0.002955165 | ENSBTAG00000030439 |
| 10 | 17,250,000 | 17,400,000 | 231 | 745 | 0.782381462 | |
| 10 | 17,325,000 | 17,475,000 | 232 | 790 | -0.0583124 | |
| 10 | 17,400,000 | 17,550,000 | 233 | 841 | -0.886190943 | UACA |
| 10 | 17,475,000 | 17,625,000 | 234 | 895 | 0.857654696 | UACA |
| 10 | 17,550,000 | 17,700,000 | 235 | 1247 | 0.523490661 | LARP6,UACA |
| 10 | 17,625,000 | 17,775,000 | 236 | 1097 | 0.264436771 | LARP6,LRRC49,THAP10 |
| 10 | 17,700,000 | 17,850,000 | 237 | 858 | 0.163463752 | LRRC49,THAP10 |
| 10 | 17,775,000 | 17,925,000 | 238 | 1150 | 0.267995694 | LRRC49 |
| 10 | 17,850,000 | 18,000,000 | 239 | 1058 | 0.073021792 | LRRC49 |
| 10 | 17,925,000 | 18,075,000 | 240 | 981 | 0.545433362 | |
| 10 | 18,000,000 | 18,150,000 | 241 | 656 | 0.791032794 | |
| 10 | 18,075,000 | 18,225,000 | 242 | 669 | 0.633389743 | |
| 10 | 18,150,000 | 18,300,000 | 243 | 914 | 0.673902597 | |
| 10 | 18,225,000 | 18,375,000 | 244 | 1148 | 0.719697276 | |
| 10 | 18,300,000 | 18,450,000 | 245 | 1322 | 0.672018098 | |
| 10 | 18,375,000 | 18,525,000 | 246 | 868 | -0.090300215 | THSD4 |
| 10 | 18,450,000 | 18,600,000 | 247 | 805 | -0.146551329 | THSD4 |
| 10 | 18,525,000 | 18,675,000 | 248 | 680 | 0.306085148 | NR2E3,THSD4,ENSBTAG00000007433 |
| 10 | 18,600,000 | 18,750,000 | 249 | 531 | 0.734792589 | NR2E3,THSD4,ENSBTAG00000007433 |
| 10 | 18,675,000 | 18,825,000 | 250 | 497 | 1.184613335 | ENSBTAG00000007433 |
| 10 | 18,750,000 | 18,900,000 | 251 | 313 | 1.182363157 | ENSBTAG00000007433,ENSBTAG00000033344 |
| 10 | 18,825,000 | 18,975,000 | 252 | 557 | 0.755839261 | GRAMD2,PKM2,ENSBTAG00000007433,ENSBTAG00000033344 |
| 10 | 18,900,000 | 19,050,000 | 253 | 620 | 0.640754608 | GRAMD2,PARP6,PKM2,ENSBTAG00000014092,ENSBTAG00000033344 |
| 10 | 18,975,000 | 19,125,000 | 254 | 671 | 0.770041008 | HEXA,PARP6,PKM2,ENSBTAG00000014092 |
| 10 | 19,050,000 | 19,200,000 | 255 | 928 | 0.758847209 | ARIH1,HEXA,TMEM202,ENSBTAG00000014092 |
| 10 | 19,125,000 | 19,275,000 | 256 | 755 | 0.679840449 | ARIH1,HEXA,TMEM202 |
| 10 | 19,200,000 | 19,350,000 | 257 | 616 | 0.597027469 | ARIH1,BBS4 |
| 10 | 19,275,000 | 19,425,000 | 258 | 770 | 0.657941274 | ADPGK,ARIH1,BBS4 |
| 10 | 19,350,000 | 19,500,000 | 259 | 987 | 0.456846492 | ADPGK,BBS4 |
| 10 | 19,425,000 | 19,575,000 | 260 | 1150 | -0.063723995 | |
| 10 | 19,500,000 | 19,650,000 | 261 | 1053 | -0.123653176 | |
| 10 | 19,575,000 | 19,725,000 | 262 | 843 | 0.620404513 | |
| 10 | 19,650,000 | 19,800,000 | 263 | 991 | 0.830479704 | NEO1 |
| 10 | 19,725,000 | 19,875,000 | 264 | 873 | 1.046958012 | NEO1 |
| 10 | 19,800,000 | 19,950,000 | 265 | 728 | 1.166254847 | NEO1 |
| 10 | 19,875,000 | 20,025,000 | 266 | 894 | 0.756807616 | HCN4,NEO1 |
| 10 | 19,950,000 | 20,100,000 | 267 | 813 | 0.576423147 | HCN4,NEO1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 20,025,000 | 20,175,000 | 268 | 920 | 0.533988367 | |
| 10 | 20,100,000 | 20,250,000 | 269 | 906 | -0.097891666 | NPTN |
| 10 | 20,175,000 | 20,325,000 | 270 | 734 | -0.835272513 | NPTN |
| 10 | 20,250,000 | 20,400,000 | 271 | 801 | 0.181890709 | C15orf59,CD276,NPTN |
| 10 | 20,325,000 | 20,475,000 | 272 | 950 | -0.093958935 | C15orf59,CD276 |
| 10 | 20,400,000 | 20,550,000 | 273 | 1106 | -0.220831679 | TBC1D21 |
| 10 | 20,475,000 | 20,625,000 | 274 | 1076 | 0.323811524 | CBLN3,KHNYN,NYNRIN,SDR39U1,TBC1D21 |
| 10 | 20,550,000 | 20,700,000 | 275 | 779 | -0.005447047 | ADCY4,C10H14orf21,CBLN3,CIDEB,KHNYN,LTB4R,LTB4R2,NFATC4,NYNRIN,RIPK3,SDR39U1 |
| 10 | 20,625,000 | 20,775,000 | 276 | 732 | -0.542508403 | ADCY4,C10H14orf21,CIDEB,DHRS1,GMMPR2,LTB4R,LTB4R2,NFATC4,RABGGTA,RIPK3,TGM1,TINF2 |
| 10 | 20,700,000 | 20,850,000 | 277 | 694 | -0.811831276 | C10H14orf21,CHMP4A,DHRS1,EMC9,GMMPR2,IPO4,ISGF3G,MDP-1,NEDD8,PSME1,PSME2,RABGGTA,REC8,TGM1,TINF2,TSSK4,ENSBTAG0000002709,ENSBTAG0000005815 |
| 10 | 20,775,000 | 20,925,000 | 278 | 567 | -0.790157924 | CHMP4A,CPNE6,DHRS4,EMC9,FITM1,IPO4,ISGF3G,LRR16B,MDP-1,NEDD8,NRL,PCK2,PSME1,PSME2,REC8,TSSK4,WDR23,ENSBTAG0000002709,ENSBTAG0000005815 |
| 10 | 20,850,000 | 21,000,000 | 279 | 1017 | 0.236829599 | CPNE6,DHRS4,FITM1,LRR16B,NRL,PCK2,WDR23,ENSBTAG00000045993 |
| 10 | 20,925,000 | 21,075,000 | 280 | 1361 | 0.329189627 | DHRS4,ENSBTAG00000030841,ENSBTAG00000045993 |
| 10 | 21,000,000 | 21,150,000 | 281 | 1227 | 0.202372948 | ENSBTAG00000030841 |
| 10 | 21,075,000 | 21,225,000 | 282 | 1066 | -0.766887841 | AP1G2,JPH4,THTPA |
| 10 | 21,150,000 | 21,300,000 | 283 | 663 | -1.171988046 | AP1G2,JPH4,NGDN,THTPA,ZFH2 |
| 10 | 21,225,000 | 21,375,000 | 284 | 575 | 1.00936337 | MYH7,NGDN,THTPA,ZFH2 |
| 10 | 21,300,000 | 21,450,000 | 285 | 531 | 1.183554084 | BCL2L2,CMTM5,EFS,IL25,MYH7,NGDN,PABPN1,PPP1R3E,SLC22A17 |
| 10 | 21,375,000 | 21,525,000 | 286 | 312 | 1.100283238 | BCL2L2,CMTM5,EFS,IL25,KIAA1443,MYH7,PABPN1,PPP1R3E,RNF212B,SLC22A17,SLC7A8 |
| 10 | 21,450,000 | 21,600,000 | 287 | 357 | 0.050831937 | ACIN1,C14orf119,CEBPE,KIAA1443,RNF212B,SLC7A8 |
| 10 | 21,525,000 | 21,675,000 | 288 | 454 | 0.108951346 | ACIN1,C14orf119,CDH24,CEBPE,PSMB11,PSMB5,SLC7A8 |
| 10 | 21,600,000 | 21,750,000 | 289 | 483 | 0.342501747 | ACIN1,AJUBA,C10H14ORF93,CDH24,PSMB11,PSMB5,ENSBTAG00000012723 |
| 10 | 21,675,000 | 21,825,000 | 290 | 342 | -1.146470206 | AJUBA,C10H14ORF93,LRP10,MMP14,MRPL52,PRMT5,RBM23,REM2,ENSBTAG00000012723 |
| 10 | 21,750,000 | 21,900,000 | 291 | 202 | -1.759039746 | LRP10,MMP14,MRPL52,OXA1L,PRMT5,RBM23,REM2,SLC7A7 |
| 10 | 21,825,000 | 21,975,000 | 292 | 203 | -5.618699047 | OXA1L,SLC7A7,ENSBTAG00000046906,ENSBTAG00000047305,ENSBTAG00000047672,ENSBTAG00000047893 |
| 10 | 21,900,000 | 22,050,000 | 293 | 590 | -5.807220175 | ABHD4,OR6J1,ENSBTAG0000009274,ENSBTAG00000045760,ENSBTAG00000046906,ENSBTAG00000047305,ENSBTAG00000047672,ENSBTAG00000047893 |
| 10 | 21,975,000 | 22,125,000 | 294 | 773 | -2.932584345 | ABHD4,DAD1,OR6J1,TRAC,ENSBTAG0000009274,ENSBTAG00000045760 |
| 10 | 22,050,000 | 22,200,000 | 295 | 824 | -0.020393375 | ABHD4,DAD1,TRAC,TRD@ |
| 10 | 22,125,000 | 22,275,000 | 296 | 1241 | -0.102031309 | TRAC,TRD@ |
| 10 | 22,200,000 | 22,350,000 | 297 | 1366 | 0.570796637 | TRAC,TRD@,TRDV2,ENSBTAG00000039402 |
| 10 | 22,275,000 | 22,425,000 | 298 | 1518 | 0.946148767 | TRAC,TRDV2,ENSBTAG00000039402 |
| 10 | 22,350,000 | 22,500,000 | 299 | 2088 | 0.956799023 | TRAC,TRDV2,ENSBTAG00000039402 |
| 10 | 22,425,000 | 22,575,000 | 300 | 2177 | 0.898870102 | TRAC,ENSBTAG00000039402,ENSBTAG00000046962 |
| 10 | 22,500,000 | 22,650,000 | 301 | 1801 | 0.785940533 | TRAC,ENSBTAG00000045595,ENSBTAG00000046962,ENSBTAG00000047258 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 22,575,000 | 22,725,000 | 302 | 1750 | 0.732419353 | TRAC,ENSBTAG00000045595,ENSBTAG00000045758,ENSBTAG00000047258,ENSBTAG00000048302 |
| 10 | 22,650,000 | 22,800,000 | 303 | 1753 | 0.823313187 | TRAC,ENSBTAG00000045758,ENSBTAG00000046464,ENSBTAG00000048302 |
| 10 | 22,725,000 | 22,875,000 | 304 | 1550 | 0.842223158 | TRAC,ENSBTAG00000039077,ENSBTAG00000046464,ENSBTAG00000046530,ENSBTAG00000047041,ENSBTAG0000047444 |
| 10 | 22,800,000 | 22,950,000 | 305 | 2319 | 0.774910876 | TRAC,ENSBTAG00000039077,ENSBTAG00000046530,ENSBTAG00000046682,ENSBTAG00000047041,ENSBTAG0000047444 |
| 10 | 22,875,000 | 23,025,000 | 306 | 2396 | 0.68472999 | TRAC,ENSBTAG00000046682 |
| 10 | 22,950,000 | 23,100,000 | 307 | 1648 | 0.709923146 | TRAC,TRAV29DV5 |
| 10 | 23,025,000 | 23,175,000 | 308 | 1864 | 0.442207568 | TRAC,TRAV29DV5,ENSBTAG00000047276 |
| 10 | 23,100,000 | 23,250,000 | 309 | 1363 | -0.432848144 | TRAC,ENSBTAG00000036202,ENSBTAG00000047276,ENSBTAG00000048064 |
| 10 | 23,175,000 | 23,325,000 | 310 | 617 | -0.810540007 | TRAC,ENSBTAG00000036202,ENSBTAG00000048064 |
| 10 | 23,250,000 | 23,400,000 | 311 | 1259 | -0.091756832 | TRAC,ENSBTAG00000038565,ENSBTAG00000047312 |
| 10 | 23,325,000 | 23,475,000 | 312 | 1473 | -0.322166065 | ENSBTAG00000038565,ENSBTAG00000046477,ENSBTAG0000047091,ENSBTAG00000047312,ENSBTAG00000047683 |
| 10 | 23,400,000 | 23,550,000 | 313 | 1440 | -0.353036019 | ENSBTAG00000046477,ENSBTAG00000046897,ENSBTAG0000047001,ENSBTAG00000047091,ENSBTAG00000047683 |
| 10 | 23,475,000 | 23,625,000 | 314 | 2297 | 0.046407677 | TRA@,ENSBTAG00000046897,ENSBTAG00000047001,ENSBTAG00000047981 |
| 10 | 23,550,000 | 23,700,000 | 315 | 1775 | 0.033866206 | TRA@,ENSBTAG00000045953,ENSBTAG00000047097,ENSBTAG00000047981 |
| 10 | 23,625,000 | 23,775,000 | 316 | 945 | -0.320302556 | ENSBTAG00000045953,ENSBTAG00000047097,ENSBTAG0000047522,ENSBTAG00000047909 |
| 10 | 23,700,000 | 23,850,000 | 317 | 1231 | -0.425768985 | ENSBTAG00000047398,ENSBTAG00000047522,ENSBTAG0000047909 |
| 10 | 23,775,000 | 23,925,000 | 318 | 1595 | 0.146688635 | ENSBTAG00000047398,ENSBTAG00000048236 |
| 10 | 23,850,000 | 24,000,000 | 319 | 1552 | 0.664589886 | ENSBTAG00000037924,ENSBTAG00000039807,ENSBTAG0000048236 |
| 10 | 23,925,000 | 24,075,000 | 320 | 1803 | 0.668544467 | TRAV8-1,ENSBTAG00000037924,ENSBTAG00000039038,ENSBTAG00000039807,ENSBTAG00000048074 |
| 10 | 24,000,000 | 24,150,000 | 321 | 2260 | 0.449186947 | TRAV8-1,ENSBTAG00000039038,ENSBTAG00000046102,ENSBTAG00000046157,ENSBTAG00000046305,ENSBTAG00000047096,ENSBTAG00000047624,ENSBTAG00000047639,ENSBTAG00000047952,ENSBTAG00000048074 |
| 10 | 24,075,000 | 24,225,000 | 322 | 2183 | 0.078754289 | ENSBTAG00000046102,ENSBTAG00000046157,ENSBTAG0000046305,ENSBTAG00000047096,ENSBTAG00000047624,ENSBTAG00000047639,ENSBTAG00000047952 |
| 10 | 24,150,000 | 24,300,000 | 323 | 1932 | -0.153542001 | ENSBTAG00000046546,ENSBTAG00000047690 |
| 10 | 24,225,000 | 24,375,000 | 324 | 1519 | 0.075719628 | ENSBTAG00000046546,ENSBTAG00000047690 |
| 10 | 24,300,000 | 24,450,000 | 325 | 741 | 0.28514486 | |
| 10 | 24,375,000 | 24,525,000 | 326 | 852 | 0.34790433 | |
| 10 | 24,450,000 | 24,600,000 | 327 | 1939 | 0.605653266 | |
| 10 | 24,525,000 | 24,675,000 | 328 | 2154 | 0.781473245 | ENSBTAG00000046802 |
| 10 | 24,600,000 | 24,750,000 | 329 | 1563 | 0.619324462 | ENSBTAG00000027170,ENSBTAG00000046802,ENSBTAG0000047058 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 24,675,000 | 24,825,000 | 330 | 1596 | 0.129408769 | ENSBTAG00000027170,ENSBTAG00000035785,ENSBTAG0000047058 |
| 10 | 24,750,000 | 24,900,000 | 331 | 1385 | -0.104282123 | TRAV14DV4,ENSBTAG00000035785,ENSBTAG00000046819 |
| 10 | 24,825,000 | 24,975,000 | 332 | 962 | 0.309600784 | TRAV14DV4,ENSBTAG00000024659,ENSBTAG00000038060,ENSBTAG00000046819 |
| 10 | 24,900,000 | 25,050,000 | 333 | 1256 | -0.06491412 | TRAV16,TRAV17,ENSBTAG00000024659,ENSBTAG00000038060 |
| 10 | 24,975,000 | 25,125,000 | 334 | 1101 | -0.54780103 | TRAV16,TRAV17,TRAV18,ENSBTAG00000045883,ENSBTAG00000046993,ENSBTAG00000047015 |
| 10 | 25,050,000 | 25,200,000 | 335 | 1159 | 0.026743687 | TRAV18,ENSBTAG00000033045,ENSBTAG00000038544,ENSBTAG00000045883,ENSBTAG00000046426,ENSBTAG00000046993,ENSBTAG00000046995,ENSBTAG00000047015 |
| 10 | 25,125,000 | 25,275,000 | 336 | 1412 | 0.488975429 | ENSBTAG00000033045,ENSBTAG00000038544,ENSBTAG0000046361,ENSBTAG00000046426,ENSBTAG00000046995 |
| 10 | 25,200,000 | 25,350,000 | 337 | 1584 | 0.490967663 | ENSBTAG00000033036,ENSBTAG00000046361,ENSBTAG0000046643 |
| 10 | 25,275,000 | 25,425,000 | 338 | 1931 | 0.559659488 | ENSBTAG00000033034,ENSBTAG00000033036,ENSBTAG0000035530,ENSBTAG00000039546,ENSBTAG00000046478,ENSBTAG00000046643 |
| 10 | 25,350,000 | 25,500,000 | 339 | 2273 | 0.578730585 | ENSBTAG00000033034,ENSBTAG00000035530,ENSBTAG0000039546,ENSBTAG00000046478 |
| 10 | 25,425,000 | 25,575,000 | 340 | 2271 | 0.768268401 | TRAV3 |
| 10 | 25,500,000 | 25,650,000 | 341 | 1759 | 1.089149146 | OR4E2,TRAV3,ENSBTAG00000011925,ENSBTAG00000047253,ENSBTAG00000047746 |
| 10 | 25,575,000 | 25,725,000 | 342 | 1275 | 1.005940728 | METTL3,OR10G3,OR4E2,SALL2,ENSBTAG00000011925,ENSBTAG00000047253,ENSBTAG00000047746 |
| 10 | 25,650,000 | 25,800,000 | 343 | 773 | 1.127051159 | CHD8,METTL3,OR10G3,RAB2B,SALL2,TOX4 |
| 10 | 25,725,000 | 25,875,000 | 344 | 484 | 0.486234646 | CHD8,METTL3,RAB2B,RPGRIP1,SUPT16H,TOX4 |
| 10 | 25,800,000 | 25,950,000 | 345 | 981 | 0.482374476 | CHD8,HNRPC,RPGRIP1,SUPT16H |
| 10 | 25,875,000 | 26,025,000 | 346 | 1477 | 0.08768431 | HNRPC,OR5AU1,RPGRIP1 |
| 10 | 25,950,000 | 26,100,000 | 347 | 1153 | 0.04726998 | ARHGEF40,HNRPC,OR5AU1,TMEM253,ZNF219 |
| 10 | 26,025,000 | 26,175,000 | 348 | 859 | 0.747667943 | ARHGEF40,NDRG2,RNASE13,SLC39A2,TMEM253,TPPP2,ZNF219,ENSBTAG00000046482 |
| 10 | 26,100,000 | 26,250,000 | 349 | 1243 | 0.87168195 | METTL17,NDRG2,RNASE13,SLC39A2,TPPP2,ENSBTAG0000025664,ENSBTAG00000046482 |
| 10 | 26,175,000 | 26,325,000 | 350 | 1658 | 0.821625958 | BRN,METTL17,RAC1,ENSBTAG00000025664,ENSBTAG0000032873 |
| 10 | 26,250,000 | 26,400,000 | 351 | 1312 | 0.569171259 | BRN,RAC1,RNASE1,ENSBTAG00000032873 |
| 10 | 26,325,000 | 26,475,000 | 352 | 895 | 0.706102621 | ANG,ANG2,RNASE1,RNASE4,RNASE6 |
| 10 | 26,400,000 | 26,550,000 | 353 | 851 | 0.941361657 | ANG,ANG2,OR6S1,RNASE4,RNASE6,ENSBTAG00000046058 |
| 10 | 26,475,000 | 26,625,000 | 354 | 1039 | 0.853810926 | OR6S1,RAK1,ENSBTAG00000046058 |
| 10 | 26,550,000 | 26,700,000 | 355 | 1267 | 0.631274056 | PNP,RAK1,RNASE10,ENSBTAG00000037452 |
| 10 | 26,625,000 | 26,775,000 | 356 | 1371 | 0.519547629 | APEX1,KLHL33,OSGEP,PNP,RNASE10,TEP1,TMEM55B,ENSBTAG00000037452 |
| 10 | 26,700,000 | 26,850,000 | 357 | 1191 | 0.283355472 | APEX1,CCNB1IP1,KLHL33,OSGEP,PARP2,RPS29,TEP1,TMEM55B,TTC5 |
| 10 | 26,775,000 | 26,925,000 | 358 | 1377 | 0.396024684 | CCNB1IP1,OR11H4,OR11H6,OR11H7,PARP2,RPS29,TEP1,TTC5,ENSBTAG00000015983 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 26,850,000 | 27,000,000 | 359 | 1969 | 0.68546686 | OR11H4,OR11H6,OR11H7,TTC5,ENSBTAG00000006198,ENSBTAG00000015983,ENSBTAG00000032798,ENSBTAG0000032799,ENSBTAG00000037959,ENSBTAG00000038868 |
| 10 | 26,925,000 | 27,075,000 | 360 | 1600 | 0.570847242 | OR11H6,ENSBTAG00000006198,ENSBTAG00000032798,ENSBTAG00000032799,ENSBTAG00000037959,ENSBTAG0000038227,ENSBTAG00000038868,ENSBTAG00000039315,ENSBTAG00000048109 |
| 10 | 27,000,000 | 27,150,000 | 361 | 1172 | 0.389965477 | ENSBTAG00000025068,ENSBTAG00000038227,ENSBTAG0000038485,ENSBTAG00000039315,ENSBTAG00000046970,ENSBTAG00000047483,ENSBTAG00000048109 |
| 10 | 27,075,000 | 27,225,000 | 362 | 1305 | 0.549475257 | OR4Q3,ENSBTAG00000025068,ENSBTAG00000037411,ENSBTAG00000038485,ENSBTAG00000038672,ENSBTAG0000039120,ENSBTAG00000039416,ENSBTAG00000046970,ENSBTAG00000047483 |
| 10 | 27,150,000 | 27,300,000 | 363 | 1330 | 0.740106193 | OR4K2,OR4N2,OR4Q3,ENSBTAG00000037411,ENSBTAG0000037511,ENSBTAG00000038672,ENSBTAG00000039120,ENSBTAG00000039416,ENSBTAG00000046390,ENSBTAG00000046651,ENSBTAG00000047311 |
| 10 | 27,225,000 | 27,375,000 | 364 | 1315 | 0.74731901 | OR4K1,OR4K2,OR4K5,OR4N2,ENSBTAG00000037511,ENSBTAG00000046390,ENSBTAG00000046651,ENSBTAG00000047311 |
| 10 | 27,300,000 | 27,450,000 | 365 | 1000 | 0.050547881 | OR4K1,OR4K15,OR4K5 |
| 10 | 27,375,000 | 27,525,000 | 366 | 1076 | -2.174480267 | OR4K14,OR4K15,OR4L1,OR4N5,OR4Q2 |
| 10 | 27,450,000 | 27,600,000 | 367 | 1445 | -2.972966529 | OR4K14,OR4L1,OR4N5,OR4Q2 |
| 10 | 27,525,000 | 27,675,000 | 368 | 1293 | -2.318889266 | ENSBTAG00000047348,ENSBTAG00000047984 |
| 10 | 27,600,000 | 27,750,000 | 369 | 1666 | -0.194183234 | ENSBTAG00000046009,ENSBTAG00000046061,ENSBTAG0000046370,ENSBTAG00000047348,ENSBTAG00000047984 |
| 10 | 27,675,000 | 27,825,000 | 370 | 1569 | 0.254180346 | ENSBTAG00000046009,ENSBTAG00000046061,ENSBTAG0000046370 |
| 10 | 27,750,000 | 27,900,000 | 371 | 969 | -0.85388711 | ENSBTAG00000013255,ENSBTAG00000038188,ENSBTAG0000046207,ENSBTAG00000047465,ENSBTAG00000047566 |
| 10 | 27,825,000 | 27,975,000 | 372 | 1431 | -2.73247099 | ENSBTAG00000013255,ENSBTAG00000038188,ENSBTAG0000039354,ENSBTAG00000045618,ENSBTAG00000046207,ENSBTAG00000047465,ENSBTAG00000047566 |
| 10 | 27,900,000 | 28,050,000 | 373 | 1614 | -2.902843609 | OR4F15,ENSBTAG00000003549,ENSBTAG00000039354,ENSBTAG00000039554,ENSBTAG00000045618 |
| 10 | 27,975,000 | 28,125,000 | 374 | 881 | -2.066533723 | OR4F15,ENSBTAG00000003549,ENSBTAG00000039554,ENSBTAG00000039707,ENSBTAG00000040459 |
| 10 | 28,050,000 | 28,200,000 | 375 | 923 | 0.509897581 | ENSBTAG00000037647,ENSBTAG00000038083,ENSBTAG0000039707,ENSBTAG00000040459 |
| 10 | 28,125,000 | 28,275,000 | 376 | 1251 | -0.135215851 | ENSBTAG00000037647,ENSBTAG00000038083,ENSBTAG0000038963,ENSBTAG00000039884,ENSBTAG00000040609 |
| 10 | 28,200,000 | 28,350,000 | 377 | 883 | -0.156230144 | LPCAT4,NUTM1,ENSBTAG00000038531,ENSBTAG00000038963,ENSBTAG00000039884,ENSBTAG00000040609 |
| 10 | 28,275,000 | 28,425,000 | 378 | 457 | 0.429970986 | LPCAT4,NOP10,NUTM1,SLC12A6,ENSBTAG00000038531 |
| 10 | 28,350,000 | 28,500,000 | 379 | 415 | 0.456426964 | EMC4,KATNBL1,NOP10,NUTM1,SLC12A6 |
| 10 | 28,425,000 | 28,575,000 | 380 | 775 | 1.058065231 | C10H15ORF24,EMC4,KATNBL1,SLC12A6 |
| 10 | 28,500,000 | 28,650,000 | 381 | 1054 | 0.79938005 | AVEN,C10H15ORF24,CHRM5,KATNBL1 |
| 10 | 28,575,000 | 28,725,000 | 382 | 1085 | -0.186909546 | AVEN,CHRM5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 10 | 28,650,000 | 28,800,000 | 383 | 983 | -0.202629723 | AVEN,RYR3 |
| 10 | 28,725,000 | 28,875,000 | 384 | 855 | 0.321319812 | AVEN,RYR3 |
| 10 | 28,800,000 | 28,950,000 | 385 | 795 | -0.622088741 | RYR3 |
| 10 | 28,875,000 | 29,025,000 | 386 | 805 | -0.724499125 | RYR3 |
| 10 | 28,950,000 | 29,100,000 | 387 | 965 | 0.230657908 | RYR3 |
| 10 | 29,025,000 | 29,175,000 | 388 | 976 | 0.736008157 | RYR3 |
| 10 | 29,100,000 | 29,250,000 | 389 | 821 | 0.126506473 | RYR3 |
| 10 | 29,175,000 | 29,325,000 | 390 | 768 | 0.315925122 | |
| 10 | 29,250,000 | 29,400,000 | 391 | 845 | 0.639664483 | |
| 10 | 29,325,000 | 29,475,000 | 392 | 795 | 0.723981195 | ENSBTAG00000021414 |
| 10 | 29,400,000 | 29,550,000 | 393 | 581 | -1.340689166 | ENSBTAG00000021414 |
| 10 | 29,475,000 | 29,625,000 | 394 | 655 | -2.99864894 | |
| 10 | 29,550,000 | 29,700,000 | 395 | 759 | -0.546819559 | ENSBTAG00000025634 |
| 10 | 29,625,000 | 29,775,000 | 396 | 630 | -0.100868639 | ENSBTAG00000025634 |
| 10 | 29,700,000 | 29,850,000 | 397 | 581 | -1.155303821 | ENSBTAG00000025634 |
| 10 | 29,775,000 | 29,925,000 | 398 | 400 | -1.189184583 | ENSBTAG00000025634 |
| 10 | 29,850,000 | 30,000,000 | 399 | 142 | -2.236939549 | ENSBTAG00000047645 |
| 10 | 29,925,000 | 30,075,000 | 400 | 190 | -1.060779482 | GREM1,ENSBTAG00000047645 |
| 10 | 30,000,000 | 30,150,000 | 401 | 363 | -0.025752383 | ARHGAP11A,GREM1,SCG5 |
| 10 | 30,075,000 | 30,225,000 | 402 | 890 | 0.562977271 | ARHGAP11A,SCG5 |
| 10 | 30,150,000 | 30,300,000 | 403 | 854 | 0.54362613 | ARHGAP11A |
| 10 | 30,225,000 | 30,375,000 | 404 | 625 | -2.886472839 | ACTC1,GJD2 |
| 10 | 30,300,000 | 30,450,000 | 405 | 894 | -2.746036455 | ACTC1,AQR,GJD2 |
| 10 | 30,375,000 | 30,525,000 | 406 | 1088 | -1.306213268 | AQR |
| 10 | 30,450,000 | 30,600,000 | 407 | 1153 | -0.997947015 | AQR,ZNF770 |
| 10 | 30,525,000 | 30,675,000 | 408 | 1141 | 0.460458354 | ZNF770 |
| 10 | 30,600,000 | 30,750,000 | 409 | 1118 | 0.279174549 | |
| 10 | 30,675,000 | 30,825,000 | 410 | 1074 | 0.308649743 | |
| 10 | 30,750,000 | 30,900,000 | 411 | 1143 | 0.65757976 | |
| 10 | 30,825,000 | 30,975,000 | 412 | 974 | 0.47956569 | DPH6 |
| 10 | 30,900,000 | 31,050,000 | 413 | 595 | 0.079999474 | DPH6 |
| 10 | 30,975,000 | 31,125,000 | 414 | 442 | -0.2021561 | DPH6 |
| 10 | 31,050,000 | 31,200,000 | 415 | 721 | 0.866099866 | DPH6 |
| 10 | 31,125,000 | 31,275,000 | 416 | 653 | 0.499406521 | |
| 10 | 31,200,000 | 31,350,000 | 417 | 374 | -1.356337674 | |
| 10 | 31,275,000 | 31,425,000 | 418 | 424 | -0.55694008 | |
| 10 | 31,350,000 | 31,500,000 | 419 | 530 | -0.814459703 | |
| 10 | 31,425,000 | 31,575,000 | 420 | 576 | -0.612528534 | |
| 10 | 31,500,000 | 31,650,000 | 421 | 400 | -0.129348748 | |
| 10 | 31,575,000 | 31,725,000 | 422 | 536 | -1.370732249 | |
| 10 | 31,650,000 | 31,800,000 | 423 | 687 | -0.560251399 | |
| 10 | 31,725,000 | 31,875,000 | 424 | 619 | 0.448217127 | |
| 10 | 31,800,000 | 31,950,000 | 425 | 535 | -0.293530493 | |
| 10 | 31,875,000 | 32,025,000 | 426 | 655 | 0.379218559 | |
| 10 | 31,950,000 | 32,100,000 | 427 | 889 | 0.648823906 | |
| 10 | 32,025,000 | 32,175,000 | 428 | 842 | 0.786043145 | |
| 10 | 32,100,000 | 32,250,000 | 429 | 788 | 0.75100888 | |
| 10 | 32,175,000 | 32,325,000 | 430 | 765 | 0.424538333 | |
| 10 | 32,250,000 | 32,400,000 | 431 | 698 | 0.34745921 | C10H15ORF41 |
| 10 | 32,325,000 | 32,475,000 | 432 | 661 | -0.981518776 | C10H15ORF41 |
| 10 | 32,400,000 | 32,550,000 | 433 | 755 | -1.797575755 | C10H15ORF41,ENSBTAG00000047974 |
| 10 | 32,475,000 | 32,625,000 | 434 | 692 | -2.157759936 | C10H15ORF41,ENSBTAG00000047974 |
| 10 | 32,550,000 | 32,700,000 | 435 | 535 | -2.907723982 | C10H15ORF41,MEIS2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 32,625,000 | 32,775,000 | 436 | 431 | -2.025353482 | MEIS2 |
| 10 | 32,700,000 | 32,850,000 | 437 | 473 | -0.723818765 | MEIS2 |
| 10 | 32,775,000 | 32,925,000 | 438 | 497 | 0.202926241 | MEIS2 |
| 10 | 32,850,000 | 33,000,000 | 439 | 372 | 0.456078596 | MEIS2 |
| 10 | 32,925,000 | 33,075,000 | 440 | 392 | 0.581310105 | |
| 10 | 33,000,000 | 33,150,000 | 441 | 560 | 1.003640274 | |
| 10 | 33,075,000 | 33,225,000 | 442 | 815 | 0.537096024 | |
| 10 | 33,150,000 | 33,300,000 | 443 | 727 | 0.129128857 | |
| 10 | 33,225,000 | 33,375,000 | 444 | 649 | 0.454072028 | |
| 10 | 33,300,000 | 33,450,000 | 445 | 917 | 0.717039872 | |
| 10 | 33,375,000 | 33,525,000 | 446 | 903 | 0.793685405 | |
| 10 | 33,450,000 | 33,600,000 | 447 | 561 | 0.557769813 | |
| 10 | 33,525,000 | 33,675,000 | 448 | 396 | -0.932212942 | TMCO5A |
| 10 | 33,600,000 | 33,750,000 | 449 | 351 | -1.088274002 | TMCO5A |
| 10 | 33,675,000 | 33,825,000 | 450 | 379 | -0.426356462 | TMCO5A |
| 10 | 33,750,000 | 33,900,000 | 451 | 844 | 0.313953577 | |
| 10 | 33,825,000 | 33,975,000 | 452 | 877 | 0.512008448 | SPRED1 |
| 10 | 33,900,000 | 34,050,000 | 453 | 471 | 0.210316305 | SPRED1 |
| 10 | 33,975,000 | 34,125,000 | 454 | 421 | 0.539818807 | SPRED1 |
| 10 | 34,050,000 | 34,200,000 | 455 | 528 | 0.661183883 | FAM98B,SPRED1 |
| 10 | 34,125,000 | 34,275,000 | 456 | 476 | 0.355199342 | FAM98B,RASGRP1 |
| 10 | 34,200,000 | 34,350,000 | 457 | 321 | -0.319021433 | RASGRP1 |
| 10 | 34,275,000 | 34,425,000 | 458 | 591 | -1.350164867 | RASGRP1 |
| 10 | 34,350,000 | 34,500,000 | 459 | 840 | -0.712801116 | |
| 10 | 34,425,000 | 34,575,000 | 460 | 754 | -0.892873479 | |
| 10 | 34,500,000 | 34,650,000 | 461 | 741 | -1.131326012 | |
| 10 | 34,575,000 | 34,725,000 | 462 | 916 | -0.308175604 | |
| 10 | 34,650,000 | 34,800,000 | 463 | 771 | -0.157422555 | |
| 10 | 34,725,000 | 34,875,000 | 464 | 655 | 0.402372312 | |
| 10 | 34,800,000 | 34,950,000 | 465 | 804 | -1.190062551 | |
| 10 | 34,875,000 | 35,025,000 | 466 | 848 | -1.605380881 | |
| 10 | 34,950,000 | 35,100,000 | 467 | 739 | -0.502503516 | |
| 10 | 35,025,000 | 35,175,000 | 468 | 657 | -0.229196809 | |
| 10 | 35,100,000 | 35,250,000 | 469 | 858 | -0.149284236 | |
| 10 | 35,175,000 | 35,325,000 | 470 | 1093 | 0.524258646 | THBS1 |
| 10 | 35,250,000 | 35,400,000 | 471 | 706 | 0.653908934 | FSIP1,THBS1 |
| 10 | 35,325,000 | 35,475,000 | 472 | 179 | 0.886400416 | FSIP1,THBS1 |
| 10 | 35,400,000 | 35,550,000 | 473 | 245 | 0.578860619 | FSIP1 |
| 10 | 35,475,000 | 35,625,000 | 474 | 257 | 0.161079875 | FSIP1,GPR176 |
| 10 | 35,550,000 | 35,700,000 | 475 | 255 | -0.421863383 | GPR176 |
| 10 | 35,625,000 | 35,775,000 | 476 | 275 | -0.267586374 | EIF2AK4,GPR176 |
| 10 | 35,700,000 | 35,850,000 | 477 | 268 | 0.361650668 | EIF2AK4,SRP14 |
| 10 | 35,775,000 | 35,925,000 | 478 | 268 | 0.606760222 | BMF,BUB1B,EIF2AK4,SRP14 |
| 10 | 35,850,000 | 36,000,000 | 479 | 277 | 0.331208059 | BMF,BUB1B,ENSBTAG00000019076 |
| 10 | 35,925,000 | 36,075,000 | 480 | 314 | 0.352621733 | ANKRD63,BUB1B,C15orf52,PLCB2,ENSBTAG00000019076 |
| 10 | 36,000,000 | 36,150,000 | 481 | 403 | 0.57757933 | ANKRD63,C10H15ORF23,C15orf52,DISP2,IVD,PLCB2,ENSBTAG00000019076 |
| 10 | 36,075,000 | 36,225,000 | 482 | 405 | 0.55580674 | BAHD1,C10H15ORF23,CHST14,DISP2,IVD |
| 10 | 36,150,000 | 36,300,000 | 483 | 354 | 1.027460948 | BAHD1,CCDC32,CHST14,IVD,RPUSD2 |
| 10 | 36,225,000 | 36,375,000 | 484 | 279 | 1.216740843 | CCDC32,RAD51,RPUSD2 |
| 10 | 36,300,000 | 36,450,000 | 485 | 174 | 1.104944952 | C15orf62,DNAJC17,GCHFR,RAD51,RMDN3 |
| 10 | 36,375,000 | 36,525,000 | 486 | 223 | 0.12170301 | C15orf62,DNAJC17,GCHFR,PPP1R14D,RAD51,RHOV,RMDN3,SPINT1,ZFYVE19 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 36,450,000 | 36,600,000 | 487 | 258 | -0.470937213 | CHAC1,DLL4,DNAJC17,PPP1R14D,RHOV,SPINT1,VPS18,ZFYVE19 |
| 10 | 36,525,000 | 36,675,000 | 488 | 378 | -0.185141713 | CHAC1,DLL4,INO80,RHOV,VPS18 |
| 10 | 36,600,000 | 36,750,000 | 489 | 513 | 0.330953997 | CHAC1,INO80 |
| 10 | 36,675,000 | 36,825,000 | 490 | 510 | 0.583878122 | EXD1,INO80,SUMO1 |
| 10 | 36,750,000 | 36,900,000 | 491 | 419 | 0.574981253 | CHP1,EXD1,OIP5,SUMO1 |
| 10 | 36,825,000 | 36,975,000 | 492 | 491 | 0.386604197 | CHP1,EXD1,NDUFAF1,NUSAP1,OIP5 |
| 10 | 36,900,000 | 37,050,000 | 493 | 585 | 0.092698362 | ITPKA,NDUFAF1,NUSAP1,OIP5,RTF1 |
| 10 | 36,975,000 | 37,125,000 | 494 | 557 | -0.08307784 | ITPKA,RPAP1,RTF1,TYRO3 |
| 10 | 37,050,000 | 37,200,000 | 495 | 482 | -0.248966222 | MGA,RPAP1,TYRO3 |
| 10 | 37,125,000 | 37,275,000 | 496 | 350 | -1.091153087 | MGA,ENSBTAG00000014662 |
| 10 | 37,200,000 | 37,350,000 | 497 | 458 | -0.720629471 | JMJD7,MAPKBP1,MGA,PLA2G4B,ENSBTAG00000014662 |
| 10 | 37,275,000 | 37,425,000 | 498 | 791 | -0.349797272 | EHD4,JMJD7,MAPKBP1,MGA,PLA2G4B,SPTBN5 |
| 10 | 37,350,000 | 37,500,000 | 499 | 1067 | 0.103270415 | EHD4,PLA2G4B,SPTBN5 |
| 10 | 37,425,000 | 37,575,000 | 500 | 1155 | 0.280499489 | EHD4,PLA2G4E |
| 10 | 37,500,000 | 37,650,000 | 501 | 1217 | 0.48559246 | PLA2G4D,PLA2G4E |
| 10 | 37,575,000 | 37,725,000 | 502 | 864 | 0.026479989 | PLA2G4D,PLA2G4F,TMEM87A,VPS39 |
| 10 | 37,650,000 | 37,800,000 | 503 | 459 | -0.997328825 | GANC,PLA2G4F,TMEM87A,VPS39 |
| 10 | 37,725,000 | 37,875,000 | 504 | 464 | -0.552037018 | CAPN3,GANC,TMEM87A |
| 10 | 37,800,000 | 37,950,000 | 505 | 515 | -0.710913224 | CAPN3,GANC,SNAP23,ZNF106 |
| 10 | 37,875,000 | 38,025,000 | 506 | 507 | -0.654694377 | CAPN3,CEP27,LRRC57,SNAP23,ZNF106 |
| 10 | 37,950,000 | 38,100,000 | 507 | 517 | -0.505961842 | CEP27,LRRC57,SNAP23 |
| 10 | 38,025,000 | 38,175,000 | 508 | 574 | -0.478264274 | CDAN1,TTBK2,ENSBTAG00000003754,ENSBTAG000000039789 |
| 10 | 38,100,000 | 38,250,000 | 509 | 516 | -0.505613279 | CDAN1,TTBK2,ENSBTAG00000003754,ENSBTAG000000039789 |
| 10 | 38,175,000 | 38,325,000 | 510 | 536 | -0.058122508 | TTBK2,UBR1 |
| 10 | 38,250,000 | 38,400,000 | 511 | 532 | 0.423121297 | UBR1 |
| 10 | 38,325,000 | 38,475,000 | 512 | 437 | 0.978961836 | TMEM62,UBR1 |
| 10 | 38,400,000 | 38,550,000 | 513 | 562 | 0.748826399 | CCNDBP1,EPB42,TMEM62,UBR1 |
| 10 | 38,475,000 | 38,625,000 | 514 | 852 | 0.896511721 | CCNDBP1,EPB42,TMEM62 |
| 10 | 38,550,000 | 38,700,000 | 515 | 1073 | 0.696837809 | |
| 10 | 38,625,000 | 38,775,000 | 516 | 870 | -0.30654882 | |
| 10 | 38,700,000 | 38,850,000 | 517 | 701 | 0.046623423 | |
| 10 | 38,775,000 | 38,925,000 | 518 | 724 | 0.32921448 | |
| 10 | 38,850,000 | 39,000,000 | 519 | 878 | -1.224650273 | |
| 10 | 38,925,000 | 39,075,000 | 520 | 1281 | -0.119149561 | |
| 10 | 39,000,000 | 39,150,000 | 521 | 1320 | 0.764101183 | |
| 10 | 39,075,000 | 39,225,000 | 522 | 1409 | 0.098116096 | |
| 10 | 39,150,000 | 39,300,000 | 523 | 999 | -0.299247175 | |
| 10 | 39,225,000 | 39,375,000 | 524 | 644 | 0.629164266 | |
| 10 | 39,300,000 | 39,450,000 | 525 | 790 | 0.581070497 | |
| 10 | 39,375,000 | 39,525,000 | 526 | 937 | 0.290719386 | |
| 10 | 39,450,000 | 39,600,000 | 527 | 1244 | 0.543293244 | |
| 10 | 39,525,000 | 39,675,000 | 528 | 1232 | 0.664613982 | |
| 10 | 39,600,000 | 39,750,000 | 529 | 1208 | 0.348303463 | RPL10L |
| 10 | 39,675,000 | 39,825,000 | 530 | 1481 | 0.392915388 | RPL10L |
| 10 | 39,750,000 | 39,900,000 | 531 | 1488 | 0.72500125 | |
| 10 | 39,825,000 | 39,975,000 | 532 | 1020 | 0.939403963 | MDGA2 |
| 10 | 39,900,000 | 40,050,000 | 533 | 843 | 0.315192718 | MDGA2 |
| 10 | 39,975,000 | 40,125,000 | 534 | 691 | -0.175949779 | MDGA2 |
| 10 | 40,050,000 | 40,200,000 | 535 | 460 | 0.160494322 | MDGA2,ENSBTAG000000032894 |
| 10 | 40,125,000 | 40,275,000 | 536 | 489 | 0.438652518 | MDGA2,ENSBTAG000000032894 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 40,200,000 | 40,350,000 | 537 | 589 | -0.674068778 | MDGA2 |
| 10 | 40,275,000 | 40,425,000 | 538 | 825 | 0.254588626 | MDGA2 |
| 10 | 40,350,000 | 40,500,000 | 539 | 799 | 0.976746662 | MDGA2 |
| 10 | 40,425,000 | 40,575,000 | 540 | 524 | -0.383657722 | MDGA2 |
| 10 | 40,500,000 | 40,650,000 | 541 | 751 | 0.29304749 | |
| 10 | 40,575,000 | 40,725,000 | 542 | 734 | 0.917433824 | |
| 10 | 40,650,000 | 40,800,000 | 543 | 511 | 0.897973485 | |
| 10 | 40,725,000 | 40,875,000 | 544 | 598 | 1.046446357 | |
| 10 | 40,800,000 | 40,950,000 | 545 | 733 | 0.99317506 | |
| 10 | 40,875,000 | 41,025,000 | 546 | 873 | -0.244632825 | |
| 10 | 40,950,000 | 41,100,000 | 547 | 814 | -0.384610006 | |
| 10 | 41,025,000 | 41,175,000 | 548 | 759 | 0.771819064 | |
| 10 | 41,100,000 | 41,250,000 | 549 | 1121 | -0.058513801 | |
| 10 | 41,175,000 | 41,325,000 | 550 | 1298 | -0.330516783 | |
| 10 | 41,250,000 | 41,400,000 | 551 | 843 | -0.34022573 | |
| 10 | 41,325,000 | 41,475,000 | 552 | 769 | 0.417056001 | |
| 10 | 41,400,000 | 41,550,000 | 553 | 831 | 0.633989989 | |
| 10 | 41,475,000 | 41,625,000 | 554 | 959 | 0.823293394 | |
| 10 | 41,550,000 | 41,700,000 | 555 | 1333 | 1.14193226 | |
| 10 | 41,625,000 | 41,775,000 | 556 | 1534 | 1.145339069 | |
| 10 | 41,700,000 | 41,850,000 | 557 | 1564 | 0.649623446 | |
| 10 | 41,775,000 | 41,925,000 | 558 | 1335 | 0.325111267 | |
| 10 | 41,850,000 | 42,000,000 | 559 | 989 | 0.676079149 | ENSBTAG00000047222 |
| 10 | 41,925,000 | 42,075,000 | 560 | 890 | 0.352036121 | ENSBTAG00000047222 |
| 10 | 42,000,000 | 42,150,000 | 561 | 788 | 0.59680213 | |
| 10 | 42,075,000 | 42,225,000 | 562 | 521 | 0.991116854 | |
| 10 | 42,150,000 | 42,300,000 | 563 | 516 | -0.218912854 | |
| 10 | 42,225,000 | 42,375,000 | 564 | 785 | -1.0181959 | |
| 10 | 42,300,000 | 42,450,000 | 565 | 878 | -0.24770005 | |
| 10 | 42,375,000 | 42,525,000 | 566 | 876 | 0.356613204 | |
| 10 | 42,450,000 | 42,600,000 | 567 | 780 | 0.233561035 | |
| 10 | 42,525,000 | 42,675,000 | 568 | 530 | 0.615293338 | |
| 10 | 42,600,000 | 42,750,000 | 569 | 369 | 0.73428251 | DNAAF2,KLHDC1,MGAT2,POLE2,PPIL5,RPL36A |
| 10 | 42,675,000 | 42,825,000 | 570 | 225 | -0.023640281 | DNAAF2,KLHDC1,KLHDC2,MGAT2,NEMF,POLE2,PPIL5,RPL36A |
| 10 | 42,750,000 | 42,900,000 | 571 | 233 | -0.016302613 | KLHDC1,KLHDC2,NEMF |
| 10 | 42,825,000 | 42,975,000 | 572 | 339 | 0.067180959 | ARF6,NEMF |
| 10 | 42,900,000 | 43,050,000 | 573 | 412 | -0.33065506 | ARF6 |
| 10 | 42,975,000 | 43,125,000 | 574 | 456 | -1.455187855 | SOS2,VCPKMT |
| 10 | 43,050,000 | 43,200,000 | 575 | 630 | -0.888741588 | SOS2,VCPKMT |
| 10 | 43,125,000 | 43,275,000 | 576 | 568 | -0.919121064 | ATP5S,L2HGDH,SOS2 |
| 10 | 43,200,000 | 43,350,000 | 577 | 531 | -0.314655665 | ATP5S,CDKL1,L2HGDH |
| 10 | 43,275,000 | 43,425,000 | 578 | 537 | 0.589263788 | ATP5S,CDKL1,MAP4K5 |
| 10 | 43,350,000 | 43,500,000 | 579 | 363 | 1.183779627 | ATL1,MAP4K5 |
| 10 | 43,425,000 | 43,575,000 | 580 | 242 | 1.338469943 | ATL1,MAP4K5,SAV1 |
| 10 | 43,500,000 | 43,650,000 | 581 | 176 | 1.297985996 | ATL1,NIN,SAV1 |
| 10 | 43,575,000 | 43,725,000 | 582 | 613 | 1.334961138 | NIN,SAV1 |
| 10 | 43,650,000 | 43,800,000 | 583 | 958 | 1.31896239 | ABHD12B,NIN |
| 10 | 43,725,000 | 43,875,000 | 584 | 701 | 1.100995775 | ABHD12B,PYGL,TRIM9 |
| 10 | 43,800,000 | 43,950,000 | 585 | 573 | 0.661250223 | PYGL,TRIM9 |
| 10 | 43,875,000 | 44,025,000 | 586 | 589 | 0.458259156 | TRIM9 |
| 10 | 43,950,000 | 44,100,000 | 587 | 752 | 0.444891406 | TRIM9 |
| 10 | 44,025,000 | 44,175,000 | 588 | 779 | 0.200505042 | TMX1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 10 | 44,100,000 | 44,250,000 | 589 | 475 | -0.366078163 | TMX1 |
| 10 | 44,175,000 | 44,325,000 | 590 | 388 | -0.31227505 | |
| 10 | 44,250,000 | 44,400,000 | 591 | 525 | 0.013266662 | FRMD6 |
| 10 | 44,325,000 | 44,475,000 | 592 | 639 | 0.576848095 | FRMD6 |
| 10 | 44,400,000 | 44,550,000 | 593 | 570 | 0.810871081 | FRMD6 |
| 10 | 44,475,000 | 44,625,000 | 594 | 537 | 0.975322774 | FRMD6 |
| 10 | 44,550,000 | 44,700,000 | 595 | 829 | 0.966104308 | FRMD6 |
| 10 | 44,625,000 | 44,775,000 | 596 | 866 | 0.316049115 | GNG2 |
| 10 | 44,700,000 | 44,850,000 | 597 | 791 | -0.348313618 | GNG2 |
| 10 | 44,775,000 | 44,925,000 | 598 | 913 | 0.560614309 | C10H14ORF166,GNG2,NID2 |
| 10 | 44,850,000 | 45,000,000 | 599 | 958 | 0.704645577 | C10H14ORF166,NID2 |
| 10 | 44,925,000 | 45,075,000 | 600 | 1079 | 0.754306555 | NID2 |
| 10 | 45,000,000 | 45,150,000 | 601 | 941 | 1.074679465 | |
| 10 | 45,075,000 | 45,225,000 | 602 | 658 | 0.776128481 | PTGDR,ENSBTAG00000001423 |
| 10 | 45,150,000 | 45,300,000 | 603 | 698 | 0.235603569 | PLEKHO2,PTGDR,ENSBTAG00000001423 |
| 10 | 45,225,000 | 45,375,000 | 604 | 818 | 0.545627772 | PIF1,PLEKHO2 |
| 10 | 45,300,000 | 45,450,000 | 605 | 790 | 0.571967728 | OAZ2,PIF1,PLEKHO2,RBPMS2,ZNF609 |
| 10 | 45,375,000 | 45,525,000 | 606 | 721 | 0.859397731 | OAZ2,RBPMS2,ZNF609 |
| 10 | 45,450,000 | 45,600,000 | 607 | 798 | 1.355913243 | ZNF609,ENSBTAG00000017641 |
| 10 | 45,525,000 | 45,675,000 | 608 | 647 | 1.325191525 | TRIP4,ZNF609,ENSBTAG00000017641 |
| 10 | 45,600,000 | 45,750,000 | 609 | 415 | 0.909746877 | CSNK1G1,PAF,TRIP4,ZNF609 |
| 10 | 45,675,000 | 45,825,000 | 610 | 411 | 0.847846518 | CSNK1G1,PAF,TRIP4 |
| 10 | 45,750,000 | 45,900,000 | 611 | 479 | 1.168792911 | CSNK1G1,PPIB,SNX1,SNX22 |
| 10 | 45,825,000 | 45,975,000 | 612 | 710 | 1.13109952 | CSNK1G1,FAM96A,PPIB,SNX1,SNX22 |
| 10 | 45,900,000 | 46,050,000 | 613 | 896 | 0.669392863 | DAPK2,FAM96A,SNX1 |
| 10 | 45,975,000 | 46,125,000 | 614 | 1048 | 0.788362498 | DAPK2 |
| 10 | 46,050,000 | 46,200,000 | 615 | 850 | 0.921469863 | DAPK2 |
| 10 | 46,125,000 | 46,275,000 | 616 | 424 | 0.369874976 | DAPK2,HERC1 |
| 10 | 46,200,000 | 46,350,000 | 617 | 305 | 0.287087429 | HERC1 |
| 10 | 46,275,000 | 46,425,000 | 618 | 317 | 0.97257737 | HERC1 |
| 10 | 46,350,000 | 46,500,000 | 619 | 481 | 1.049890007 | FBXL22,HERC1,USP3 |
| 10 | 46,425,000 | 46,575,000 | 620 | 527 | 0.818547842 | FBXL22,HERC1,USP3 |
| 10 | 46,500,000 | 46,650,000 | 621 | 673 | 0.479606506 | USP3 |
| 10 | 46,575,000 | 46,725,000 | 622 | 921 | 0.31501809 | |
| 10 | 46,650,000 | 46,800,000 | 623 | 804 | -0.00655744 | APH1B,CA12 |
| 10 | 46,725,000 | 46,875,000 | 624 | 602 | -0.153488503 | APH1B,CA12,RAB8B |
| 10 | 46,800,000 | 46,950,000 | 625 | 510 | -0.094714095 | APH1B,RAB8B,RPS27L |
| 10 | 46,875,000 | 47,025,000 | 626 | 568 | -1.306005023 | LACTB,RAB8B,RPS27L |
| 10 | 46,950,000 | 47,100,000 | 627 | 829 | -1.363622207 | LACTB,TPM1 |
| 10 | 47,025,000 | 47,175,000 | 628 | 1138 | -0.137062621 | TPM1 |
| 10 | 47,100,000 | 47,250,000 | 629 | 1534 | 0.117074215 | |
| 10 | 47,175,000 | 47,325,000 | 630 | 1502 | 0.332013278 | TLN2 |
| 10 | 47,250,000 | 47,400,000 | 631 | 1377 | 0.778626428 | TLN2 |
| 10 | 47,325,000 | 47,475,000 | 632 | 1286 | 0.889634252 | TLN2 |
| 10 | 47,400,000 | 47,550,000 | 633 | 1187 | 1.058193559 | TLN2 |
| 10 | 47,475,000 | 47,625,000 | 634 | 1383 | 0.919789616 | TLN2 |
| 10 | 47,550,000 | 47,700,000 | 635 | 1536 | 0.300386648 | TLN2 |
| 10 | 47,625,000 | 47,775,000 | 636 | 1385 | 0.065379139 | TLN2 |
| 10 | 47,700,000 | 47,850,000 | 637 | 1174 | 0.990091315 | TLN2 |
| 10 | 47,775,000 | 47,925,000 | 638 | 1065 | 1.046996518 | TLN2 |
| 10 | 47,850,000 | 48,000,000 | 639 | 1113 | 1.088929765 | C2CD4A |
| 10 | 47,925,000 | 48,075,000 | 640 | 1387 | 1.262359857 | C2CD4A,ENSBTAG00000010952 |
| 10 | 48,000,000 | 48,150,000 | 641 | 1359 | 1.164067105 | VPS13C,ENSBTAG00000010952 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 10 | 48,075,000 | 48,225,000 | 642 | 1199 | 0.617621589 | VPS13C |
| 10 | 48,150,000 | 48,300,000 | 643 | 921 | 0.431870522 | VPS13C |
| 10 | 48,225,000 | 48,375,000 | 644 | 826 | 0.970107181 | VPS13C |
| 10 | 48,300,000 | 48,450,000 | 645 | 1021 | 0.942386845 | |
| 10 | 48,375,000 | 48,525,000 | 646 | 933 | 0.828594432 | |
| 10 | 48,450,000 | 48,600,000 | 647 | 998 | 0.576790552 | |
| 10 | 48,525,000 | 48,675,000 | 648 | 1374 | 0.623223619 | |
| 10 | 48,600,000 | 48,750,000 | 649 | 1320 | 0.497524954 | |
| 10 | 48,675,000 | 48,825,000 | 650 | 1223 | 0.919868608 | |
| 10 | 48,750,000 | 48,900,000 | 651 | 1175 | 1.274885837 | |
| 10 | 48,825,000 | 48,975,000 | 652 | 869 | 1.031607188 | RORA |
| 10 | 48,900,000 | 49,050,000 | 653 | 704 | 0.475216001 | RORA |
| 10 | 48,975,000 | 49,125,000 | 654 | 630 | 0.837852751 | RORA |
| 10 | 49,050,000 | 49,200,000 | 655 | 544 | 0.278794505 | RORA |
| 10 | 49,125,000 | 49,275,000 | 656 | 546 | -0.212864947 | RORA |
| 10 | 49,200,000 | 49,350,000 | 657 | 506 | -0.422369506 | RORA |
| 10 | 49,275,000 | 49,425,000 | 658 | 441 | -1.059296222 | RORA |
| 10 | 49,350,000 | 49,500,000 | 659 | 513 | -1.345959477 | RORA |
| 10 | 49,425,000 | 49,575,000 | 660 | 447 | -0.723135732 | RORA |
| 10 | 49,500,000 | 49,650,000 | 661 | 279 | 0.054328633 | RORA |
| 10 | 49,575,000 | 49,725,000 | 662 | 284 | -1.095393464 | RORA |
| 10 | 49,650,000 | 49,800,000 | 663 | 373 | -0.507269524 | ICE2,RORA |
| 10 | 49,725,000 | 49,875,000 | 664 | 689 | 0.215682429 | ANXA2,ICE2,RORA |
| 10 | 49,800,000 | 49,950,000 | 665 | 1112 | 1.004364355 | ANXA2,ICE2 |
| 10 | 49,875,000 | 50,025,000 | 666 | 1372 | 1.009085282 | ANXA2 |
| 10 | 49,950,000 | 50,100,000 | 667 | 1273 | 0.597019924 | |
| 10 | 50,025,000 | 50,175,000 | 668 | 1017 | 0.007700187 | |
| 10 | 50,100,000 | 50,250,000 | 669 | 1039 | -0.80205796 | |
| 10 | 50,175,000 | 50,325,000 | 670 | 960 | -0.488109598 | FOXB1 |
| 10 | 50,250,000 | 50,400,000 | 671 | 950 | 0.370461536 | FOXB1 |
| 10 | 50,325,000 | 50,475,000 | 672 | 1050 | 0.450166797 | |
| 10 | 50,400,000 | 50,550,000 | 673 | 1189 | 0.910613343 | |
| 10 | 50,475,000 | 50,625,000 | 674 | 979 | 1.05424545 | |
| 10 | 50,550,000 | 50,700,000 | 675 | 515 | 0.726915262 | BNIP2,GTF2A2 |
| 10 | 50,625,000 | 50,775,000 | 676 | 510 | 0.993054718 | BNIP2,GCNT3,GTF2A2 |
| 10 | 50,700,000 | 50,850,000 | 677 | 1154 | 0.980922231 | GCNT3 |
| 10 | 50,775,000 | 50,925,000 | 678 | 1265 | 0.933442659 | FAM81A |
| 10 | 50,850,000 | 51,000,000 | 679 | 710 | 0.440432847 | FAM81A |
| 10 | 50,925,000 | 51,075,000 | 680 | 660 | 0.387903687 | FAM81A,MYO1E |
| 10 | 51,000,000 | 51,150,000 | 681 | 845 | -0.405260208 | MYO1E |
| 10 | 51,075,000 | 51,225,000 | 682 | 939 | -1.411102195 | MYO1E |
| 10 | 51,150,000 | 51,300,000 | 683 | 698 | -1.158309265 | CCNB2,MYO1E,RNF111 |
| 10 | 51,225,000 | 51,375,000 | 684 | 519 | 0.310522946 | CCNB2,MYO1E,RNF111 |
| 10 | 51,300,000 | 51,450,000 | 685 | 442 | 0.917379084 | RNF111,SLTM |
| 10 | 51,375,000 | 51,525,000 | 686 | 361 | 0.948640591 | FAM63B,RNF111,SLTM |
| 10 | 51,450,000 | 51,600,000 | 687 | 326 | 0.990555101 | ADAM10,FAM63B,SLTM |
| 10 | 51,525,000 | 51,675,000 | 688 | 387 | 0.860899446 | ADAM10,FAM63B |
| 10 | 51,600,000 | 51,750,000 | 689 | 388 | 0.545154271 | ADAM10 |
| 10 | 51,675,000 | 51,825,000 | 690 | 442 | -0.161695704 | ADAM10,LIPC |
| 10 | 51,750,000 | 51,900,000 | 691 | 720 | 0.34498081 | LIPC |
| 10 | 51,825,000 | 51,975,000 | 692 | 718 | 0.716671462 | LIPC |
| 10 | 51,900,000 | 52,050,000 | 693 | 616 | 0.380362904 | LIPC |
| 10 | 51,975,000 | 52,125,000 | 694 | 631 | 0.557637861 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 10 | 52,050,000 | 52,200,000 | 695 | 943 | 0.985348046 | AQP9 |
| 10 | 52,125,000 | 52,275,000 | 696 | 980 | 1.024644958 | AQP9 |
| 10 | 52,200,000 | 52,350,000 | 697 | 535 | 0.934013602 | ALDH1A2 |
| 10 | 52,275,000 | 52,425,000 | 698 | 612 | 0.149991162 | ALDH1A2 |
| 10 | 52,350,000 | 52,500,000 | 699 | 640 | -0.18570015 | ALDH1A2 |
| 10 | 52,425,000 | 52,575,000 | 700 | 651 | 0.344627616 | |
| 10 | 52,500,000 | 52,650,000 | 701 | 784 | 0.890474306 | POLR2M |
| 10 | 52,575,000 | 52,725,000 | 702 | 730 | 1.181477997 | MYZAP,POLR2M |
| 10 | 52,650,000 | 52,800,000 | 703 | 675 | 0.689729314 | MYZAP,POLR2M |
| 10 | 52,725,000 | 52,875,000 | 704 | 924 | 0.300451228 | CGNL1,MYZAP |
| 10 | 52,800,000 | 52,950,000 | 705 | 1021 | 0.290255928 | CGNL1 |
| 10 | 52,875,000 | 53,025,000 | 706 | 627 | 0.200055747 | CGNL1 |
| 10 | 52,950,000 | 53,100,000 | 707 | 530 | -1.457565183 | TCF12 |
| 10 | 53,025,000 | 53,175,000 | 708 | 488 | -2.57445433 | TCF12 |
| 10 | 53,100,000 | 53,250,000 | 709 | 316 | -0.852276134 | TCF12 |
| 10 | 53,175,000 | 53,325,000 | 710 | 321 | -0.628805192 | TCF12 |
| 10 | 53,250,000 | 53,400,000 | 711 | 323 | -0.263953834 | TCF12 |
| 10 | 53,325,000 | 53,475,000 | 712 | 281 | -0.002866078 | TCF12 |
| 10 | 53,400,000 | 53,550,000 | 713 | 265 | 0.049083714 | TCF12 |
| 10 | 53,475,000 | 53,625,000 | 714 | 260 | -0.086398618 | TCF12 |
| 10 | 53,550,000 | 53,700,000 | 715 | 248 | -0.016076662 | |
| 10 | 53,625,000 | 53,775,000 | 716 | 239 | 0.239541899 | ZNF280D |
| 10 | 53,700,000 | 53,850,000 | 717 | 335 | 0.766306875 | ZNF280D |
| 10 | 53,775,000 | 53,925,000 | 718 | 521 | 0.344561831 | ZNF280D |
| 10 | 53,850,000 | 54,000,000 | 719 | 527 | -0.113423064 | MNS1 |
| 10 | 53,925,000 | 54,075,000 | 720 | 451 | -0.212564279 | MNS1 |
| 10 | 54,000,000 | 54,150,000 | 721 | 631 | 0.412721058 | MNS1,TEX9 |
| 10 | 54,075,000 | 54,225,000 | 722 | 901 | 0.718048172 | TEX9 |
| 10 | 54,150,000 | 54,300,000 | 723 | 1027 | 0.823029865 | RFX7,TEX9 |
| 10 | 54,225,000 | 54,375,000 | 724 | 730 | 0.741853359 | RFX7 |
| 10 | 54,300,000 | 54,450,000 | 725 | 626 | -1.15187455 | RFX7 |
| 10 | 54,375,000 | 54,525,000 | 726 | 910 | -0.743533283 | RFX7,ENSBTAG00000031396 |
| 10 | 54,450,000 | 54,600,000 | 727 | 743 | -0.070294001 | NEDD4,ENSBTAG00000031396 |
| 10 | 54,525,000 | 54,675,000 | 728 | 612 | 0.262146341 | NEDD4 |
| 10 | 54,600,000 | 54,750,000 | 729 | 531 | -0.649154968 | NEDD4 |
| 10 | 54,675,000 | 54,825,000 | 730 | 363 | -4.252321354 | PRTG |
| 10 | 54,750,000 | 54,900,000 | 731 | 461 | -4.049546842 | PRTG,PYGO1 |
| 10 | 54,825,000 | 54,975,000 | 732 | 330 | -2.325026404 | DYX1C1,PRTG,PYGO1 |
| 10 | 54,900,000 | 55,050,000 | 733 | 148 | 0.957986754 | CCPG1,DYX1C1,PIGB |
| 10 | 54,975,000 | 55,125,000 | 734 | 227 | 1.063499622 | CCPG1,PIGB,RAB27A |
| 10 | 55,050,000 | 55,200,000 | 735 | 542 | 1.340984183 | PIGB,RAB27A,RSL24D1 |
| 10 | 55,125,000 | 55,275,000 | 736 | 767 | 1.404676983 | RAB27A,RSL24D1 |
| 10 | 55,200,000 | 55,350,000 | 737 | 787 | 0.794401718 | |
| 10 | 55,275,000 | 55,425,000 | 738 | 985 | 0.282737912 | |
| 10 | 55,350,000 | 55,500,000 | 739 | 1082 | 0.622256168 | |
| 10 | 55,425,000 | 55,575,000 | 740 | 1160 | -1.059460239 | |
| 10 | 55,500,000 | 55,650,000 | 741 | 1430 | -1.367870962 | |
| 10 | 55,575,000 | 55,725,000 | 742 | 1440 | -0.17289081 | UNC13C |
| 10 | 55,650,000 | 55,800,000 | 743 | 1551 | 0.617716508 | UNC13C |
| 10 | 55,725,000 | 55,875,000 | 744 | 1106 | 0.558537114 | UNC13C |
| 10 | 55,800,000 | 55,950,000 | 745 | 896 | -0.253490424 | UNC13C |
| 10 | 55,875,000 | 56,025,000 | 746 | 1237 | -0.343699061 | UNC13C |
| 10 | 55,950,000 | 56,100,000 | 747 | 1026 | 0.302826639 | UNC13C |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 10 | 56,025,000 | 56,175,000 | 748 | 1201 | 1.063010925 | UNC13C |
| 10 | 56,100,000 | 56,250,000 | 749 | 1042 | 0.847566895 | UNC13C |
| 10 | 56,175,000 | 56,325,000 | 750 | 831 | -0.120312294 | UNC13C |
| 10 | 56,250,000 | 56,400,000 | 751 | 1240 | 0.556424672 | UNC13C |
| 10 | 56,325,000 | 56,475,000 | 752 | 1638 | 0.582894211 | UNC13C |
| 10 | 56,400,000 | 56,550,000 | 753 | 1734 | 0.535158045 | |
| 10 | 56,475,000 | 56,625,000 | 754 | 1317 | 0.149368456 | |
| 10 | 56,550,000 | 56,700,000 | 755 | 678 | -1.168649633 | WDR72 |
| 10 | 56,625,000 | 56,775,000 | 756 | 641 | -0.53395474 | WDR72 |
| 10 | 56,700,000 | 56,850,000 | 757 | 752 | -0.157522959 | WDR72 |
| 10 | 56,775,000 | 56,925,000 | 758 | 813 | 0.790567361 | WDR72 |
| 10 | 56,850,000 | 57,000,000 | 759 | 824 | 0.786733056 | |
| 10 | 56,925,000 | 57,075,000 | 760 | 899 | 0.020063372 | |
| 10 | 57,000,000 | 57,150,000 | 761 | 778 | 0.248297283 | |
| 10 | 57,075,000 | 57,225,000 | 762 | 383 | 0.228230815 | |
| 10 | 57,150,000 | 57,300,000 | 763 | 370 | 0.270503773 | |
| 10 | 57,225,000 | 57,375,000 | 764 | 721 | 1.055686385 | |
| 10 | 57,300,000 | 57,450,000 | 765 | 948 | 0.917818726 | |
| 10 | 57,375,000 | 57,525,000 | 766 | 680 | 0.676204368 | |
| 10 | 57,450,000 | 57,600,000 | 767 | 497 | 0.487231266 | |
| 10 | 57,525,000 | 57,675,000 | 768 | 679 | 0.798847576 | |
| 10 | 57,600,000 | 57,750,000 | 769 | 708 | 0.675524499 | ONECUT1 |
| 10 | 57,675,000 | 57,825,000 | 770 | 637 | 0.783696363 | ONECUT1 |
| 10 | 57,750,000 | 57,900,000 | 771 | 573 | -0.096920076 | FAM214A |
| 10 | 57,825,000 | 57,975,000 | 772 | 387 | -0.741692222 | ARPP19,FAM214A |
| 10 | 57,900,000 | 58,050,000 | 773 | 645 | 0.67579017 | ARPP19,FAM214A,MYO5A |
| 10 | 57,975,000 | 58,125,000 | 774 | 829 | 0.679872477 | MYO5A |
| 10 | 58,050,000 | 58,200,000 | 775 | 754 | 0.261848897 | MYO5A,MYO5C |
| 10 | 58,125,000 | 58,275,000 | 776 | 1023 | 0.605462237 | MYO5A,MYO5C |
| 10 | 58,200,000 | 58,350,000 | 777 | 1105 | 0.903112824 | GNB5,MYO5C,ENSBTAG00000005429 |
| 10 | 58,275,000 | 58,425,000 | 778 | 614 | 0.492703723 | GNB5,MYO5C,ENSBTAG00000005429 |
| 10 | 58,350,000 | 58,500,000 | 779 | 270 | -0.062477481 | MAPK6 |
| 10 | 58,425,000 | 58,575,000 | 780 | 322 | -0.060331176 | LEO1,MAPK6,ENSBTAG00000019601 |
| 10 | 58,500,000 | 58,650,000 | 781 | 285 | 0.535188904 | LEO1,TMOD3,ENSBTAG00000019601 |
| 10 | 58,575,000 | 58,725,000 | 782 | 235 | 0.042744691 | TMOD2,TMOD3,ENSBTAG00000019601 |
| 10 | 58,650,000 | 58,800,000 | 783 | 259 | 0.22982111 | LYSMD2,SCG3,TMOD2 |
| 10 | 58,725,000 | 58,875,000 | 784 | 301 | 0.566766084 | LYSMD2,SCG3 |
| 10 | 58,800,000 | 58,950,000 | 785 | 316 | 0.147411124 | DMXL2 |
| 10 | 58,875,000 | 59,025,000 | 786 | 241 | 0.123709051 | DMXL2 |
| 10 | 58,950,000 | 59,100,000 | 787 | 274 | 0.694810739 | DMXL2,GLDN |
| 10 | 59,025,000 | 59,175,000 | 788 | 404 | -0.341958851 | GLDN |
| 10 | 59,100,000 | 59,250,000 | 789 | 402 | -0.198344393 | CYP19A1,GLDN |
| 10 | 59,175,000 | 59,325,000 | 790 | 418 | 1.24196853 | CYP19A1 |
| 10 | 59,250,000 | 59,400,000 | 791 | 619 | 0.291032891 | CYP19A1 |
| 10 | 59,325,000 | 59,475,000 | 792 | 630 | 0.056196842 | |
| 10 | 59,400,000 | 59,550,000 | 793 | 334 | -0.020141469 | TNFAIP8L3 |
| 10 | 59,475,000 | 59,625,000 | 794 | 134 | -1.091558726 | AP4E1,TNFAIP8L3 |
| 10 | 59,550,000 | 59,700,000 | 795 | 184 | -2.146396233 | AP4E1 |
| 10 | 59,625,000 | 59,775,000 | 796 | 247 | -1.521159088 | AP4E1 |
| 10 | 59,700,000 | 59,850,000 | 797 | 332 | -1.605917213 | SPPL2A |
| 10 | 59,775,000 | 59,925,000 | 798 | 349 | -1.442403173 | SPPL2A,TRPM7 |
| 10 | 59,850,000 | 60,000,000 | 799 | 403 | 0.148676454 | TRPM7,USP50,USP8 |
| 10 | 59,925,000 | 60,075,000 | 800 | 431 | 0.443563428 | TRPM7,USP50,USP8 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---|
| 10 | 60,000,000 | 60,150,000 | 801 | 284 | 0.28180826 | GABPB1,HDC,USP8 |
| 10 | 60,075,000 | 60,225,000 | 802 | 327 | -0.894877012 | GABPB1,HDC,SLC27A2,ENSBTAG00000045591,ENSBTAG0000045634 |
| 10 | 60,150,000 | 60,300,000 | 803 | 550 | 0.03826035 | HDC,SLC27A2,ENSBTAG00000045591,ENSBTAG00000045634 |
| 10 | 60,225,000 | 60,375,000 | 804 | 787 | 0.972306465 | SLC27A2 |
| 10 | 60,300,000 | 60,450,000 | 805 | 820 | 1.025088477 | ATP8B4 |
| 10 | 60,375,000 | 60,525,000 | 806 | 706 | 0.884023581 | ATP8B4 |
| 10 | 60,450,000 | 60,600,000 | 807 | 673 | 0.701377239 | ATP8B4 |
| 10 | 60,525,000 | 60,675,000 | 808 | 693 | -0.722994421 | ATP8B4 |
| 10 | 60,600,000 | 60,750,000 | 809 | 741 | -1.390900971 | ATP8B4 |
| 10 | 60,675,000 | 60,825,000 | 810 | 572 | -0.429086718 | |
| 10 | 60,750,000 | 60,900,000 | 811 | 586 | 0.792934203 | |
| 10 | 60,825,000 | 60,975,000 | 812 | 537 | 1.060260438 | DTWD1 |
| 10 | 60,900,000 | 61,050,000 | 813 | 481 | 1.080664132 | DTWD1,FGF7 |
| 10 | 60,975,000 | 61,125,000 | 814 | 519 | 1.155530133 | FGF7 |
| 10 | 61,050,000 | 61,200,000 | 815 | 486 | 1.285826588 | FGF7,GALK2 |
| 10 | 61,125,000 | 61,275,000 | 816 | 617 | 1.218629907 | GALK2 |
| 10 | 61,200,000 | 61,350,000 | 817 | 731 | 1.08712863 | COPS2,GALK2 |
| 10 | 61,275,000 | 61,425,000 | 818 | 743 | 0.986364107 | COPS2,GALK2,SECISBP2L |
| 10 | 61,350,000 | 61,500,000 | 819 | 672 | 0.983224016 | SECISBP2L |
| 10 | 61,425,000 | 61,575,000 | 820 | 808 | 0.992013997 | SECISBP2L,ENSBTAG00000005217,ENSBTAG00000046376 |
| 10 | 61,500,000 | 61,650,000 | 821 | 857 | 0.50164939 | EID1,SHC4,ENSBTAG00000005217,ENSBTAG00000046376 |
| 10 | 61,575,000 | 61,725,000 | 822 | 948 | -0.286552608 | CEP152,EID1,SHC4 |
| 10 | 61,650,000 | 61,800,000 | 823 | 945 | -0.222627628 | CEP152 |
| 10 | 61,725,000 | 61,875,000 | 824 | 574 | 0.399479945 | CEP152 |
| 10 | 61,800,000 | 61,950,000 | 825 | 531 | 0.552955464 | FBN1 |
| 10 | 61,875,000 | 62,025,000 | 826 | 512 | 0.753776974 | FBN1 |
| 10 | 61,950,000 | 62,100,000 | 827 | 457 | 1.020104598 | FBN1 |
| 10 | 62,025,000 | 62,175,000 | 828 | 403 | 0.871607541 | FBN1 |
| 10 | 62,100,000 | 62,250,000 | 829 | 237 | 0.225721624 | FBN1 |
| 10 | 62,175,000 | 62,325,000 | 830 | 444 | 0.044572028 | DUT,SLC12A1 |
| 10 | 62,250,000 | 62,400,000 | 831 | 557 | -0.513579054 | DUT,SLC12A1 |
| 10 | 62,325,000 | 62,475,000 | 832 | 353 | -0.790390655 | CTXN2,MYEF2,SLC12A1,SLC24A5 |
| 10 | 62,400,000 | 62,550,000 | 833 | 364 | 0.173730957 | CTXN2,MYEF2,SLC12A1,SLC24A5 |
| 10 | 62,475,000 | 62,625,000 | 834 | 777 | 0.38806869 | SLC24A5 |
| 10 | 62,550,000 | 62,700,000 | 835 | 932 | 0.81594561 | |
| 10 | 62,625,000 | 62,775,000 | 836 | 928 | 0.895854627 | |
| 10 | 62,700,000 | 62,850,000 | 837 | 870 | 0.717837891 | |
| 10 | 62,775,000 | 62,925,000 | 838 | 484 | 0.543370877 | SEMA6D |
| 10 | 62,850,000 | 63,000,000 | 839 | 535 | -0.382889191 | SEMA6D |
| 10 | 62,925,000 | 63,075,000 | 840 | 813 | -0.776448077 | |
| 10 | 63,000,000 | 63,150,000 | 841 | 760 | -1.847210935 | |
| 10 | 63,075,000 | 63,225,000 | 842 | 833 | -3.332925328 | |
| 10 | 63,150,000 | 63,300,000 | 843 | 773 | -2.013864478 | |
| 10 | 63,225,000 | 63,375,000 | 844 | 450 | 0.133746679 | |
| 10 | 63,300,000 | 63,450,000 | 845 | 362 | -0.716711513 | |
| 10 | 63,375,000 | 63,525,000 | 846 | 400 | 0.423495383 | |
| 10 | 63,450,000 | 63,600,000 | 847 | 679 | -0.043647436 | |
| 10 | 63,525,000 | 63,675,000 | 848 | 856 | 0.392130844 | ENSBTAG00000006267 |
| 10 | 63,600,000 | 63,750,000 | 849 | 724 | 1.150616438 | ENSBTAG00000006267 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 63,675,000 | 63,825,000 | 850 | 593 | 0.800858192 | |
| 10 | 63,750,000 | 63,900,000 | 851 | 1110 | 1.045865759 | |
| 10 | 63,825,000 | 63,975,000 | 852 | 1437 | 0.888194545 | |
| 10 | 63,900,000 | 64,050,000 | 853 | 768 | 0.588262528 | |
| 10 | 63,975,000 | 64,125,000 | 854 | 475 | -0.539950412 | |
| 10 | 64,050,000 | 64,200,000 | 855 | 538 | -0.413245795 | |
| 10 | 64,125,000 | 64,275,000 | 856 | 527 | 0.371213156 | |
| 10 | 64,200,000 | 64,350,000 | 857 | 718 | 0.605508065 | |
| 10 | 64,275,000 | 64,425,000 | 858 | 761 | -0.151976331 | |
| 10 | 64,350,000 | 64,500,000 | 859 | 567 | -2.098558738 | |
| 10 | 64,425,000 | 64,575,000 | 860 | 442 | -2.277307614 | |
| 10 | 64,500,000 | 64,650,000 | 861 | 595 | 0.02739282 | |
| 10 | 64,575,000 | 64,725,000 | 862 | 1097 | 0.449230986 | |
| 10 | 64,650,000 | 64,800,000 | 863 | 988 | 0.51591888 | |
| 10 | 64,725,000 | 64,875,000 | 864 | 593 | 0.541264634 | |
| 10 | 64,800,000 | 64,950,000 | 865 | 808 | 0.6972648 | |
| 10 | 64,875,000 | 65,025,000 | 866 | 794 | -0.63475862 | |
| 10 | 64,950,000 | 65,100,000 | 867 | 588 | -4.037532302 | SQRDL |
| 10 | 65,025,000 | 65,175,000 | 868 | 552 | -2.462995165 | BLOC1S6,SQRDL |
| 10 | 65,100,000 | 65,250,000 | 869 | 617 | -2.012899927 | BLOC1S6,MGC165862,SLC30A4 |
| 10 | 65,175,000 | 65,325,000 | 870 | 512 | -3.944850014 | MGC165862,SLC30A4,SPATA5L1 |
| 10 | 65,250,000 | 65,400,000 | 871 | 388 | -2.527639492 | GATM,SLC28A2,SPATA5L1,ENSBTAG00000027251 |
| 10 | 65,325,000 | 65,475,000 | 872 | 593 | -1.784667731 | GATM,SHF,SLC28A2,ENSBTAG00000027251 |
| 10 | 65,400,000 | 65,550,000 | 873 | 690 | -1.218751278 | DUOX1,DUOX2,DUOXA1,DUOXA2,SHF,SLC28A2 |
| 10 | 65,475,000 | 65,625,000 | 874 | 644 | 0.526157636 | DUOX1,DUOX2,DUOXA1,DUOXA2,SHF,SORD |
| 10 | 65,550,000 | 65,700,000 | 875 | 813 | 1.210487641 | DUOX2,SORD,ENSBTAG00000038327 |
| 10 | 65,625,000 | 65,775,000 | 876 | 807 | 0.825173047 | FERMT2,ENSBTAG00000038327,ENSBTAG00000047170 |
| 10 | 65,700,000 | 65,850,000 | 877 | 399 | -0.55219143 | FERMT2,ENSBTAG00000047170 |
| 10 | 65,775,000 | 65,925,000 | 878 | 523 | -1.592470391 | DDHD1,FERMT2 |
| 10 | 65,850,000 | 66,000,000 | 879 | 750 | -0.999591943 | DDHD1 |
| 10 | 65,925,000 | 66,075,000 | 880 | 635 | -0.981688583 | DDHD1 |
| 10 | 66,000,000 | 66,150,000 | 881 | 530 | -3.076958716 | |
| 10 | 66,075,000 | 66,225,000 | 882 | 435 | -1.721082602 | |
| 10 | 66,150,000 | 66,300,000 | 883 | 665 | 0.167544119 | |
| 10 | 66,225,000 | 66,375,000 | 884 | 738 | -0.003224036 | |
| 10 | 66,300,000 | 66,450,000 | 885 | 645 | -0.363314486 | |
| 10 | 66,375,000 | 66,525,000 | 886 | 657 | -0.144184044 | |
| 10 | 66,450,000 | 66,600,000 | 887 | 520 | 0.127565175 | |
| 10 | 66,525,000 | 66,675,000 | 888 | 407 | 0.571288165 | |
| 10 | 66,600,000 | 66,750,000 | 889 | 412 | -0.706470717 | ENSBTAG00000047239 |
| 10 | 66,675,000 | 66,825,000 | 890 | 389 | -1.163004184 | BMP4,ENSBTAG00000047239 |
| 10 | 66,750,000 | 66,900,000 | 891 | 337 | -0.170022788 | BMP4 |
| 10 | 66,825,000 | 66,975,000 | 892 | 377 | -1.708930666 | |
| 10 | 66,900,000 | 67,050,000 | 893 | 402 | -1.076664233 | |
| 10 | 66,975,000 | 67,125,000 | 894 | 311 | 0.264275737 | |
| 10 | 67,050,000 | 67,200,000 | 895 | 358 | 0.341991925 | CDKN3,CNIH1 |
| 10 | 67,125,000 | 67,275,000 | 896 | 712 | 0.970604281 | CDKN3,CGRRF1,CNIH1,GMFB |
| 10 | 67,200,000 | 67,350,000 | 897 | 799 | 1.193732812 | CGRRF1,GMFB |
| 10 | 67,275,000 | 67,425,000 | 898 | 502 | 0.970233367 | |
| 10 | 67,350,000 | 67,500,000 | 899 | 312 | 0.69883803 | SAMD4A |
| 10 | 67,425,000 | 67,575,000 | 900 | 371 | 0.370127309 | SAMD4A |
| 10 | 67,500,000 | 67,650,000 | 901 | 638 | 0.531803227 | GCH1,SAMD4A |
| 10 | 67,575,000 | 67,725,000 | 902 | 584 | 1.051943866 | GCH1,WDHD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 10 | 67,650,000 | 67,800,000 | 903 | 299 | 0.78764843 | MAPK1IP1L,SOCS4,WDHD1 |
| 10 | 67,725,000 | 67,875,000 | 904 | 345 | 0.014149899 | DLGAP5,LGALS3,MAPK1IP1L,SOCS4,WDHD1 |
| 10 | 67,800,000 | 67,950,000 | 905 | 584 | 0.113895988 | DLGAP5,LGALS3 |
| 10 | 67,875,000 | 68,025,000 | 906 | 659 | 0.542879036 | DLGAP5 |
| 10 | 67,950,000 | 68,100,000 | 907 | 449 | 0.891275991 | ATG14,FBXO34 |
| 10 | 68,025,000 | 68,175,000 | 908 | 511 | 0.284501978 | ATG14,FBXO34,TBPL2 |
| 10 | 68,100,000 | 68,250,000 | 909 | 715 | 0.427973815 | ATG14,KTN1,TBPL2 |
| 10 | 68,175,000 | 68,325,000 | 910 | 705 | 0.294682166 | KTN1 |
| 10 | 68,250,000 | 68,400,000 | 911 | 655 | 0.28174712 | KTN1 |
| 10 | 68,325,000 | 68,475,000 | 912 | 644 | -1.96828611 | KTN1 |
| 10 | 68,400,000 | 68,550,000 | 913 | 682 | -3.204400206 | |
| 10 | 68,475,000 | 68,625,000 | 914 | 519 | -1.975708751 | |
| 10 | 68,550,000 | 68,700,000 | 915 | 538 | -1.586869597 | |
| 10 | 68,625,000 | 68,775,000 | 916 | 572 | -0.991020743 | |
| 10 | 68,700,000 | 68,850,000 | 917 | 719 | 0.752384247 | PELI2 |
| 10 | 68,775,000 | 68,925,000 | 918 | 680 | 1.087073653 | PELI2 |
| 10 | 68,850,000 | 69,000,000 | 919 | 390 | 0.388029151 | PELI2 |
| 10 | 68,925,000 | 69,075,000 | 920 | 652 | -1.990839072 | PELI2 |
| 10 | 69,000,000 | 69,150,000 | 921 | 790 | -1.89053176 | |
| 10 | 69,075,000 | 69,225,000 | 922 | 663 | 0.809003849 | |
| 10 | 69,150,000 | 69,300,000 | 923 | 614 | -0.437937265 | TMEM260 |
| 10 | 69,225,000 | 69,375,000 | 924 | 557 | -3.131535467 | TMEM260 |
| 10 | 69,300,000 | 69,450,000 | 925 | 390 | -2.650690723 | TMEM260 |
| 10 | 69,375,000 | 69,525,000 | 926 | 484 | -0.254015319 | OTX2 |
| 10 | 69,450,000 | 69,600,000 | 927 | 644 | -0.434511533 | OTX2 |
| 10 | 69,525,000 | 69,675,000 | 928 | 721 | -0.167933647 | |
| 10 | 69,600,000 | 69,750,000 | 929 | 875 | -0.133607346 | |
| 10 | 69,675,000 | 69,825,000 | 930 | 903 | -1.011766339 | |
| 10 | 69,750,000 | 69,900,000 | 931 | 704 | -0.900237625 | EXOC5 |
| 10 | 69,825,000 | 69,975,000 | 932 | 604 | 0.639369009 | AP5M1,EXOC5 |
| 10 | 69,900,000 | 70,050,000 | 933 | 558 | 0.316508814 | AP5M1,EXOC5,NAA30 |
| 10 | 69,975,000 | 70,125,000 | 934 | 806 | 0.05317759 | C14orf105,NAA30 |
| 10 | 70,050,000 | 70,200,000 | 935 | 1109 | 0.177979412 | C14orf105,SLC35F4 |
| 10 | 70,125,000 | 70,275,000 | 936 | 1278 | 0.164691792 | SLC35F4 |
| 10 | 70,200,000 | 70,350,000 | 937 | 1340 | -0.293569913 | |
| 10 | 70,275,000 | 70,425,000 | 938 | 822 | -0.552175673 | |
| 10 | 70,350,000 | 70,500,000 | 939 | 631 | 0.773730607 | |
| 10 | 70,425,000 | 70,575,000 | 940 | 642 | 0.878735001 | |
| 10 | 70,500,000 | 70,650,000 | 941 | 745 | 0.933242941 | C14orf37 |
| 10 | 70,575,000 | 70,725,000 | 942 | 708 | 0.742591036 | C14orf37 |
| 10 | 70,650,000 | 70,800,000 | 943 | 450 | -0.829317515 | ACTR10,C14orf37,PSMA3 |
| 10 | 70,725,000 | 70,875,000 | 944 | 362 | -0.920029274 | ACTR10,ARID4A,PSMA3 |
| 10 | 70,800,000 | 70,950,000 | 945 | 340 | -1.121991531 | ARID4A,KIAA0586,PSMA3,TIMM9 |
| 10 | 70,875,000 | 71,025,000 | 946 | 319 | -2.627942083 | ARID4A,KIAA0586,TIMM9 |
| 10 | 70,950,000 | 71,100,000 | 947 | 505 | -1.145576141 | KIAA0586 |
| 10 | 71,025,000 | 71,175,000 | 948 | 721 | 0.353154417 | DACT1,KIAA0586 |
| 10 | 71,100,000 | 71,250,000 | 949 | 660 | 1.214298663 | DACT1 |
| 10 | 71,175,000 | 71,325,000 | 950 | 556 | 0.879137644 | |
| 10 | 71,250,000 | 71,400,000 | 951 | 584 | 0.31690067 | |
| 10 | 71,325,000 | 71,475,000 | 952 | 637 | 0.549144219 | |
| 10 | 71,400,000 | 71,550,000 | 953 | 567 | 1.104035271 | |
| 10 | 71,475,000 | 71,625,000 | 954 | 603 | -0.093050846 | ENSBTAG00000045799 |
| 10 | 71,550,000 | 71,700,000 | 955 | 523 | -1.048891654 | ENSBTAG00000045799 |

| | | | | | | |
|----|------------|------------|------|------|--------------|----------------------------------|
| 10 | 71,625,000 | 71,775,000 | 956 | 427 | -1.000070058 | DAAM1 |
| 10 | 71,700,000 | 71,850,000 | 957 | 331 | -1.147294236 | DAAM1 |
| 10 | 71,775,000 | 71,925,000 | 958 | 191 | -0.893278258 | DAAM1 |
| 10 | 71,850,000 | 72,000,000 | 959 | 401 | -1.364030322 | DAAM1,GPR135,L3HYPDH |
| 10 | 71,925,000 | 72,075,000 | 960 | 672 | -0.475657425 | CCDC175,GPR135,JAMP,L3HYPDH |
| 10 | 72,000,000 | 72,150,000 | 961 | 498 | 0.654789186 | CCDC175,JAMP,L3HYPDH,RTN1 |
| 10 | 72,075,000 | 72,225,000 | 962 | 347 | 0.885654573 | CCDC175,RTN1 |
| 10 | 72,150,000 | 72,300,000 | 963 | 709 | 0.565787018 | COX7C,RTN1 |
| 10 | 72,225,000 | 72,375,000 | 964 | 940 | 0.197669119 | COX7C,RTN1 |
| 10 | 72,300,000 | 72,450,000 | 965 | 705 | 0.306935984 | LRR9 |
| 10 | 72,375,000 | 72,525,000 | 966 | 555 | 0.899780134 | LRR9 |
| 10 | 72,450,000 | 72,600,000 | 967 | 711 | 0.36809537 | LRR9,PCNX4 |
| 10 | 72,525,000 | 72,675,000 | 968 | 822 | 0.507664059 | DHRS7,PCNX4 |
| 10 | 72,600,000 | 72,750,000 | 969 | 790 | 0.938549197 | DHRS7,PCNX4 |
| 10 | 72,675,000 | 72,825,000 | 970 | 646 | 0.999324209 | PPM1A |
| 10 | 72,750,000 | 72,900,000 | 971 | 410 | 0.976156201 | C14orf39,PPM1A |
| 10 | 72,825,000 | 72,975,000 | 972 | 290 | 1.00128569 | C14orf39,SIX6 |
| 10 | 72,900,000 | 73,050,000 | 973 | 376 | 0.716261577 | C14orf39,SIX6 |
| 10 | 72,975,000 | 73,125,000 | 974 | 401 | 0.010313515 | SIX1 |
| 10 | 73,050,000 | 73,200,000 | 975 | 415 | -0.478536581 | MNAT1,SIX1,ENSBTAG00000046309 |
| 10 | 73,125,000 | 73,275,000 | 976 | 492 | -0.165874852 | MNAT1,ENSBTAG00000046309 |
| 10 | 73,200,000 | 73,350,000 | 977 | 496 | 0.086288133 | MNAT1 |
| 10 | 73,275,000 | 73,425,000 | 978 | 533 | 0.19318549 | MNAT1,SLC38A6,TRMT5 |
| 10 | 73,350,000 | 73,500,000 | 979 | 578 | 0.284940956 | MNAT1,SLC38A6,TRMT5 |
| 10 | 73,425,000 | 73,575,000 | 980 | 509 | 0.486345133 | SLC38A6 |
| 10 | 73,500,000 | 73,650,000 | 981 | 467 | 0.475803251 | TMEM30B,ENSBTAG00000047000 |
| 10 | 73,575,000 | 73,725,000 | 982 | 457 | 0.173481076 | PRKCH,TMEM30B,ENSBTAG00000047000 |
| 10 | 73,650,000 | 73,800,000 | 983 | 699 | -0.215442911 | PRKCH |
| 10 | 73,725,000 | 73,875,000 | 984 | 920 | -0.538814422 | PRKCH |
| 10 | 73,800,000 | 73,950,000 | 985 | 850 | -0.802254329 | PRKCH |
| 10 | 73,875,000 | 74,025,000 | 986 | 658 | -0.611320907 | PRKCH |
| 10 | 73,950,000 | 74,100,000 | 987 | 623 | 0.444627038 | HIF1A |
| 10 | 74,025,000 | 74,175,000 | 988 | 761 | 1.079484939 | HIF1A,SNAPC1 |
| 10 | 74,100,000 | 74,250,000 | 989 | 1015 | 0.864908635 | HIF1A,SNAPC1 |
| 10 | 74,175,000 | 74,325,000 | 990 | 1442 | 1.011333666 | SNAPC1 |
| 10 | 74,250,000 | 74,400,000 | 991 | 1052 | 1.144157081 | SYT16 |
| 10 | 74,325,000 | 74,475,000 | 992 | 595 | -0.156111708 | SYT16 |
| 10 | 74,400,000 | 74,550,000 | 993 | 742 | -0.459096501 | SYT16,ENSBTAG00000030792 |
| 10 | 74,475,000 | 74,625,000 | 994 | 679 | 0.326341276 | SYT16,ENSBTAG00000030792 |
| 10 | 74,550,000 | 74,700,000 | 995 | 951 | 0.658737464 | |
| 10 | 74,625,000 | 74,775,000 | 996 | 1354 | 0.978396314 | |
| 10 | 74,700,000 | 74,850,000 | 997 | 1165 | 1.217692112 | |
| 10 | 74,775,000 | 74,925,000 | 998 | 698 | 0.883797074 | |
| 10 | 74,850,000 | 75,000,000 | 999 | 326 | 0.069770378 | |
| 10 | 74,925,000 | 75,075,000 | 1000 | 352 | -2.101707179 | |
| 10 | 75,000,000 | 75,150,000 | 1001 | 423 | -1.868036933 | |
| 10 | 75,075,000 | 75,225,000 | 1002 | 368 | -0.063097402 | |
| 10 | 75,150,000 | 75,300,000 | 1003 | 352 | 0.019062092 | KCNH5 |
| 10 | 75,225,000 | 75,375,000 | 1004 | 398 | -0.386691074 | KCNH5 |
| 10 | 75,300,000 | 75,450,000 | 1005 | 746 | 0.254428838 | KCNH5 |
| 10 | 75,375,000 | 75,525,000 | 1006 | 1302 | 0.276184733 | KCNH5 |
| 10 | 75,450,000 | 75,600,000 | 1007 | 1116 | 0.323828471 | KCNH5 |
| 10 | 75,525,000 | 75,675,000 | 1008 | 840 | 0.644326045 | KCNH5 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 75,600,000 | 75,750,000 | 1009 | 941 | 0.20032027 | KCNH5 |
| 10 | 75,675,000 | 75,825,000 | 1010 | 718 | -0.389696238 | RHOJ |
| 10 | 75,750,000 | 75,900,000 | 1011 | 412 | -0.441015351 | RHOJ |
| 10 | 75,825,000 | 75,975,000 | 1012 | 530 | 0.15549773 | PPP2R5E,RHOJ |
| 10 | 75,900,000 | 76,050,000 | 1013 | 634 | -1.507404705 | PPP2R5E |
| 10 | 75,975,000 | 76,125,000 | 1014 | 487 | -2.50106316 | PPP2R5E |
| 10 | 76,050,000 | 76,200,000 | 1015 | 378 | -1.165388631 | PPP2R5E,WDR89 |
| 10 | 76,125,000 | 76,275,000 | 1016 | 288 | -0.297681138 | SGPP1,WDR89 |
| 10 | 76,200,000 | 76,350,000 | 1017 | 628 | -0.277401648 | SGPP1 |
| 10 | 76,275,000 | 76,425,000 | 1018 | 875 | -0.032548171 | SGPP1,SYNE2 |
| 10 | 76,350,000 | 76,500,000 | 1019 | 965 | -0.843846034 | SYNE2 |
| 10 | 76,425,000 | 76,575,000 | 1020 | 907 | -1.3902159 | SYNE2 |
| 10 | 76,500,000 | 76,650,000 | 1021 | 494 | -0.313970375 | SYNE2 |
| 10 | 76,575,000 | 76,725,000 | 1022 | 314 | 0.172307262 | ESR2,SYNE2 |
| 10 | 76,650,000 | 76,800,000 | 1023 | 281 | -1.313967364 | ESR2,SYNE2 |
| 10 | 76,725,000 | 76,875,000 | 1024 | 435 | -4.478652366 | ESR2,MTHFD1,ENSBTAG00000013836 |
| 10 | 76,800,000 | 76,950,000 | 1025 | 550 | -4.218852549 | AKAP5,MTHFD1,ZBTB25,ENSBTAG00000013836 |
| 10 | 76,875,000 | 77,025,000 | 1026 | 465 | -3.085109199 | AKAP5,MTHFD1,PPP1R36,ZBTB1,ZBTB25 |
| 10 | 76,950,000 | 77,100,000 | 1027 | 815 | -1.129239755 | PPP1R36,ZBTB1,ZBTB25 |
| 10 | 77,025,000 | 77,175,000 | 1028 | 983 | -0.193781989 | |
| 10 | 77,100,000 | 77,250,000 | 1029 | 608 | 0.611409116 | PLEKHG3,SPTB |
| 10 | 77,175,000 | 77,325,000 | 1030 | 439 | 0.096240793 | PLEKHG3,SPTB |
| 10 | 77,250,000 | 77,400,000 | 1031 | 673 | 0.475888313 | CHURC1,GPX2,RAB15,SPTB |
| 10 | 77,325,000 | 77,475,000 | 1032 | 844 | 0.520276378 | CHURC1,FNTB,GPX2,RAB15 |
| 10 | 77,400,000 | 77,550,000 | 1033 | 715 | 0.122562973 | FNTB,MAX,RAB15 |
| 10 | 77,475,000 | 77,625,000 | 1034 | 632 | 0.223147764 | FNTB,MAX |
| 10 | 77,550,000 | 77,700,000 | 1035 | 629 | 0.667440942 | |
| 10 | 77,625,000 | 77,775,000 | 1036 | 586 | -0.67251254 | |
| 10 | 77,700,000 | 77,850,000 | 1037 | 757 | -1.686162398 | |
| 10 | 77,775,000 | 77,925,000 | 1038 | 1088 | -0.860819074 | |
| 10 | 77,850,000 | 78,000,000 | 1039 | 1129 | 0.046605375 | FUT8 |
| 10 | 77,925,000 | 78,075,000 | 1040 | 1029 | 0.324400539 | FUT8 |
| 10 | 78,000,000 | 78,150,000 | 1041 | 1039 | 0.147962033 | FUT8 |
| 10 | 78,075,000 | 78,225,000 | 1042 | 974 | 0.844344908 | FUT8 |
| 10 | 78,150,000 | 78,300,000 | 1043 | 708 | 1.358412103 | FUT8 |
| 10 | 78,225,000 | 78,375,000 | 1044 | 440 | 1.185074672 | |
| 10 | 78,300,000 | 78,450,000 | 1045 | 720 | 0.24224153 | |
| 10 | 78,375,000 | 78,525,000 | 1046 | 837 | 0.025742149 | ENSBTAG00000037625 |
| 10 | 78,450,000 | 78,600,000 | 1047 | 659 | -0.646859949 | ENSBTAG00000037625 |
| 10 | 78,525,000 | 78,675,000 | 1048 | 825 | -0.419651535 | |
| 10 | 78,600,000 | 78,750,000 | 1049 | 623 | -0.095859889 | |
| 10 | 78,675,000 | 78,825,000 | 1050 | 429 | -1.581212467 | |
| 10 | 78,750,000 | 78,900,000 | 1051 | 415 | -1.158719195 | C10H14orf53 |
| 10 | 78,825,000 | 78,975,000 | 1052 | 312 | -1.348210288 | C10H14orf53,GPHN |
| 10 | 78,900,000 | 79,050,000 | 1053 | 302 | -1.874222902 | GPHN |
| 10 | 78,975,000 | 79,125,000 | 1054 | 253 | -2.241998427 | GPHN |
| 10 | 79,050,000 | 79,200,000 | 1055 | 517 | -2.048195625 | GPHN |
| 10 | 79,125,000 | 79,275,000 | 1056 | 519 | -2.004024332 | GPHN |
| 10 | 79,200,000 | 79,350,000 | 1057 | 220 | -1.228961557 | GPHN |
| 10 | 79,275,000 | 79,425,000 | 1058 | 197 | 0.181825792 | GPHN |
| 10 | 79,350,000 | 79,500,000 | 1059 | 194 | 0.216691975 | FAM71D,GPHN |
| 10 | 79,425,000 | 79,575,000 | 1060 | 173 | -0.399224087 | FAM71D,GPHN,MPP5 |
| 10 | 79,500,000 | 79,650,000 | 1061 | 163 | -0.415830759 | ATP6V1D,EIF2S1,MPP5,PLEK2 |

| | | | | | | |
|----|------------|------------|------|-----|--------------|---|
| 10 | 79,575,000 | 79,725,000 | 1062 | 232 | -0.2447119 | ATP6V1D,EIF2S1,MPP5,PLEK2,TMEM229B |
| 10 | 79,650,000 | 79,800,000 | 1063 | 325 | 1.068828638 | PLEKHH1,TMEM229B |
| 10 | 79,725,000 | 79,875,000 | 1064 | 321 | 1.43563023 | PIGH,PLEKHH1,RPL39,ENSBTAG00000046048 |
| 10 | 79,800,000 | 79,950,000 | 1065 | 289 | 0.484522751 | PIGH,PLEKHH1,RPL39,ENSBTAG00000046048 |
| 10 | 79,875,000 | 80,025,000 | 1066 | 316 | -0.098032245 | |
| 10 | 79,950,000 | 80,100,000 | 1067 | 285 | 0.683948794 | ARG2 |
| 10 | 80,025,000 | 80,175,000 | 1068 | 208 | 1.458613074 | ARG2,RDH11,RDH12,VTI1B |
| 10 | 80,100,000 | 80,250,000 | 1069 | 232 | 1.539749148 | ARG2,RAD51B,RDH11,RDH12,VTI1B,ZFYVE26 |
| 10 | 80,175,000 | 80,325,000 | 1070 | 393 | 1.448481974 | RAD51B,ZFYVE26 |
| 10 | 80,250,000 | 80,400,000 | 1071 | 406 | 0.232501633 | RAD51B |
| 10 | 80,325,000 | 80,475,000 | 1072 | 323 | -0.512965597 | RAD51B |
| 10 | 80,400,000 | 80,550,000 | 1073 | 261 | 0.941199336 | RAD51B |
| 10 | 80,475,000 | 80,625,000 | 1074 | 244 | 0.123906964 | RAD51B |
| 10 | 80,550,000 | 80,700,000 | 1075 | 259 | 0.263591614 | RAD51B |
| 10 | 80,625,000 | 80,775,000 | 1076 | 268 | 0.379268363 | RAD51B |
| 10 | 80,700,000 | 80,850,000 | 1077 | 376 | 0.176369328 | |
| 10 | 80,775,000 | 80,925,000 | 1078 | 559 | 0.271140593 | |
| 10 | 80,850,000 | 81,000,000 | 1079 | 571 | -0.168199948 | ZFP36L1 |
| 10 | 80,925,000 | 81,075,000 | 1080 | 466 | -0.967764344 | ACTN1,ZFP36L1 |
| 10 | 81,000,000 | 81,150,000 | 1081 | 796 | -0.184693382 | ACTN1 |
| 10 | 81,075,000 | 81,225,000 | 1082 | 837 | 0.39616828 | ACTN1,DCAF5 |
| 10 | 81,150,000 | 81,300,000 | 1083 | 455 | 1.031332213 | DCAF5 |
| 10 | 81,225,000 | 81,375,000 | 1084 | 531 | 1.312609072 | DCAF5,EXD2 |
| 10 | 81,300,000 | 81,450,000 | 1085 | 716 | 0.810439888 | EXD2,GALNTL1 |
| 10 | 81,375,000 | 81,525,000 | 1086 | 867 | 0.255466589 | ERH,EXD2,GALNTL1 |
| 10 | 81,450,000 | 81,600,000 | 1087 | 832 | 0.465093419 | ERH,GALNTL1,PLEKHD1,SLC39A9 |
| 10 | 81,525,000 | 81,675,000 | 1088 | 554 | 0.444245118 | ERH,PLEKHD1,SLC39A9 |
| 10 | 81,600,000 | 81,750,000 | 1089 | 448 | 0.371047408 | CCDC177,PLEKHD1 |
| 10 | 81,675,000 | 81,825,000 | 1090 | 367 | 0.250416992 | CCDC177,KIAA0247 |
| 10 | 81,750,000 | 81,900,000 | 1091 | 351 | -0.172319018 | KIAA0247,SFRS5,SLC10A1 |
| 10 | 81,825,000 | 81,975,000 | 1092 | 453 | 0.301581534 | SFRS5,SLC10A1,SMOC1 |
| 10 | 81,900,000 | 82,050,000 | 1093 | 473 | 0.878553701 | SMOC1 |
| 10 | 81,975,000 | 82,125,000 | 1094 | 412 | 0.916056713 | SMOC1 |
| 10 | 82,050,000 | 82,200,000 | 1095 | 536 | 0.773696104 | SLC8A3,SMOC1 |
| 10 | 82,125,000 | 82,275,000 | 1096 | 880 | 0.543579114 | SLC8A3 |
| 10 | 82,200,000 | 82,350,000 | 1097 | 973 | 0.42511683 | SLC8A3,SYNJ2BP |
| 10 | 82,275,000 | 82,425,000 | 1098 | 978 | 0.446531977 | COX16,SYNJ2BP |
| 10 | 82,350,000 | 82,500,000 | 1099 | 811 | 0.443091231 | COX16,SYNJ2BP,ENSBTAG00000037932 |
| 10 | 82,425,000 | 82,575,000 | 1100 | 600 | 0.289330824 | ADAM20,ADAM21,COX16,MED6,ENSBTAG00000037932,ENSBTAG00000039950,ENSBTAG00000045679 |
| 10 | 82,500,000 | 82,650,000 | 1101 | 810 | -0.209957143 | ADAM20,ADAM21,MED6,TTC9,ENSBTAG00000039950,ENSBTAG00000045679 |
| 10 | 82,575,000 | 82,725,000 | 1102 | 647 | -0.184916733 | MED6,TTC9,ENSBTAG00000039950,ENSBTAG00000045679 |
| 10 | 82,650,000 | 82,800,000 | 1103 | 351 | 0.126050163 | MAP3K9,TTC9 |
| 10 | 82,725,000 | 82,875,000 | 1104 | 591 | 0.228050286 | MAP3K9 |
| 10 | 82,800,000 | 82,950,000 | 1105 | 558 | 0.223391186 | MAP3K9,PCNX |
| 10 | 82,875,000 | 83,025,000 | 1106 | 289 | -0.496182377 | PCNX |
| 10 | 82,950,000 | 83,100,000 | 1107 | 363 | -0.486256139 | PCNX |
| 10 | 83,025,000 | 83,175,000 | 1108 | 683 | 0.555839907 | PCNX |
| 10 | 83,100,000 | 83,250,000 | 1109 | 786 | 1.014491226 | ENSBTAG00000005395 |
| 10 | 83,175,000 | 83,325,000 | 1110 | 640 | 0.638871504 | ENSBTAG00000005395 |
| 10 | 83,250,000 | 83,400,000 | 1111 | 797 | 0.01379559 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 10 | 83,325,000 | 83,475,000 | 1112 | 753 | -0.336248149 | |
| 10 | 83,400,000 | 83,550,000 | 1113 | 457 | -1.12423983 | RPL12,SIPA1L1 |
| 10 | 83,475,000 | 83,625,000 | 1114 | 621 | -0.131669439 | RPL12,SIPA1L1 |
| 10 | 83,550,000 | 83,700,000 | 1115 | 704 | 0.015409331 | SIPA1L1 |
| 10 | 83,625,000 | 83,775,000 | 1116 | 609 | 0.291546311 | |
| 10 | 83,700,000 | 83,850,000 | 1117 | 635 | 0.547312513 | |
| 10 | 83,775,000 | 83,925,000 | 1118 | 1002 | 0.467741779 | |
| 10 | 83,850,000 | 84,000,000 | 1119 | 1302 | 0.468154913 | |
| 10 | 83,925,000 | 84,075,000 | 1120 | 952 | 0.480599247 | |
| 10 | 84,000,000 | 84,150,000 | 1121 | 590 | 0.462288203 | |
| 10 | 84,075,000 | 84,225,000 | 1122 | 648 | 0.692560171 | |
| 10 | 84,150,000 | 84,300,000 | 1123 | 1063 | 0.932606557 | |
| 10 | 84,225,000 | 84,375,000 | 1124 | 1072 | 0.511634446 | RGS6 |
| 10 | 84,300,000 | 84,450,000 | 1125 | 744 | 0.29799835 | RGS6 |
| 10 | 84,375,000 | 84,525,000 | 1126 | 850 | 0.515584035 | DPF3,RGS6 |
| 10 | 84,450,000 | 84,600,000 | 1127 | 676 | 0.394027017 | DPF3 |
| 10 | 84,525,000 | 84,675,000 | 1128 | 322 | -0.05248899 | DPF3 |
| 10 | 84,600,000 | 84,750,000 | 1129 | 632 | 0.598636418 | DPF3,ENSBTAG00000046952 |
| 10 | 84,675,000 | 84,825,000 | 1130 | 1019 | 0.771562688 | ENSBTAG00000046952 |
| 10 | 84,750,000 | 84,900,000 | 1131 | 703 | 0.300134127 | WDR21A,ZFYVE1 |
| 10 | 84,825,000 | 84,975,000 | 1132 | 201 | -0.269585406 | RBM25,WDR21A,ZFYVE1 |
| 10 | 84,900,000 | 85,050,000 | 1133 | 161 | -1.283433675 | PSEN1,RBM25,ZFYVE1 |
| 10 | 84,975,000 | 85,125,000 | 1134 | 275 | -1.35318198 | PAPLN,PSEN1,RBM25 |
| 10 | 85,050,000 | 85,200,000 | 1135 | 281 | -0.696877492 | NUMB,PAPLN,PSEN1 |
| 10 | 85,125,000 | 85,275,000 | 1136 | 237 | 0.00896353 | NUMB |
| 10 | 85,200,000 | 85,350,000 | 1137 | 279 | -0.341356406 | C14orf169,HEATR4 |
| 10 | 85,275,000 | 85,425,000 | 1138 | 519 | -1.893207887 | ACOT2,C14orf169,HEATR4,MGC160092 |
| 10 | 85,350,000 | 85,500,000 | 1139 | 943 | -0.935353293 | ACOT2,ACOT6,DNAL1,HEATR4,MGC160092,ENSBTAG0000009783,ENSBTAG00000010270 |
| 10 | 85,425,000 | 85,575,000 | 1140 | 732 | -0.283729374 | ACOT6,DNAL1,ELMSAN1,PNMA1,ENSBTAG0000009783,ENSBTAG00000010270 |
| 10 | 85,500,000 | 85,650,000 | 1141 | 370 | -2.144809626 | DNAL1,ELMSAN1,PNMA1,PTGR2 |
| 10 | 85,575,000 | 85,725,000 | 1142 | 377 | -1.272301707 | FAM161B,PTGR2,ZNF410 |
| 10 | 85,650,000 | 85,800,000 | 1143 | 439 | 0.421307507 | CCDC176,COQ6,ENTPD5,FAM161B,PTGR2,ZNF410 |
| 10 | 85,725,000 | 85,875,000 | 1144 | 428 | 0.438713701 | ALDH6A1,CCDC176,COQ6,ENTPD5,LIN52 |
| 10 | 85,800,000 | 85,950,000 | 1145 | 242 | 0.646348577 | ALDH6A1,CCDC176,LIN52 |
| 10 | 85,875,000 | 86,025,000 | 1146 | 348 | 0.375226579 | ABCD4,LIN52,VSX2 |
| 10 | 85,950,000 | 86,100,000 | 1147 | 533 | 0.732635006 | ABCD4,LIN52,VRTN,VSX2 |
| 10 | 86,025,000 | 86,175,000 | 1148 | 693 | 0.981253736 | ABCD4,NPC2,SYNDIG1L,VRTN |
| 10 | 86,100,000 | 86,250,000 | 1149 | 753 | 1.097850465 | ISCA2,LTBP2,NPC2,SYNDIG1L |
| 10 | 86,175,000 | 86,325,000 | 1150 | 545 | 1.376372723 | ISCA2,LTBP2,NPC2 |
| 10 | 86,250,000 | 86,400,000 | 1151 | 353 | 1.435686633 | AREL1,FCF1,LTBP2 |
| 10 | 86,325,000 | 86,475,000 | 1152 | 236 | 1.253931951 | AREL1,FCF1,YLPM1 |
| 10 | 86,400,000 | 86,550,000 | 1153 | 300 | -1.686635124 | DLST,PROX2,YLPM1 |
| 10 | 86,475,000 | 86,625,000 | 1154 | 406 | -2.025487114 | DLST,PGF,PROX2,RPS6KL1,YLPM1 |
| 10 | 86,550,000 | 86,700,000 | 1155 | 348 | -2.042156219 | DLST,EIF2B2,MLH3,PGF,RPS6KL1 |
| 10 | 86,625,000 | 86,775,000 | 1156 | 276 | -2.493091306 | ACYP1,EIF2B2,MLH3,NEK9,TMED10,ZC2HC1C |
| 10 | 86,700,000 | 86,850,000 | 1157 | 388 | -1.302414005 | ACYP1,NEK9,TMED10,ZC2HC1C |
| 10 | 86,775,000 | 86,925,000 | 1158 | 491 | -0.693818203 | FOS,TMED10 |
| 10 | 86,850,000 | 87,000,000 | 1159 | 691 | 0.278814449 | FOS |
| 10 | 86,925,000 | 87,075,000 | 1160 | 631 | 0.702236655 | JDP2 |
| 10 | 87,000,000 | 87,150,000 | 1161 | 323 | 0.018572316 | BATF,JDP2 |
| 10 | 87,075,000 | 87,225,000 | 1162 | 390 | -1.0076544 | BATF,ENSBTAG00000040078 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 87,150,000 | 87,300,000 | 1163 | 438 | -0.986782648 | CAMK4,STARD4,ENSBTAG00000040078 |
| 10 | 87,225,000 | 87,375,000 | 1164 | 408 | -0.43654012 | CAMK4,NCL,STARD4 |
| 10 | 87,300,000 | 87,450,000 | 1165 | 712 | 0.011339237 | CAMK4,NCL |
| 10 | 87,375,000 | 87,525,000 | 1166 | 898 | 0.248280072 | |
| 10 | 87,450,000 | 87,600,000 | 1167 | 743 | -1.236584964 | |
| 10 | 87,525,000 | 87,675,000 | 1168 | 552 | -1.723419478 | WDR36 |
| 10 | 87,600,000 | 87,750,000 | 1169 | 376 | -0.650360945 | WDR36 |
| 10 | 87,675,000 | 87,825,000 | 1170 | 467 | -2.115988632 | WDR36 |
| 10 | 87,750,000 | 87,900,000 | 1171 | 544 | -1.569061988 | ENSBTAG00000011985 |
| 10 | 87,825,000 | 87,975,000 | 1172 | 448 | -0.320702623 | C10H14ORF1,TTLL5,ENSBTAG00000011985 |
| 10 | 87,900,000 | 88,050,000 | 1173 | 369 | -0.757847542 | C10H14ORF1,TTLL5,ENSBTAG00000011985 |
| 10 | 87,975,000 | 88,125,000 | 1174 | 329 | -0.45489545 | TTLL5 |
| 10 | 88,050,000 | 88,200,000 | 1175 | 446 | -0.138643159 | TTLL5 |
| 10 | 88,125,000 | 88,275,000 | 1176 | 394 | -0.517428923 | IFT43,TGFB3,TTLL5 |
| 10 | 88,200,000 | 88,350,000 | 1177 | 318 | -0.611755035 | IFT43,TGFB3,TTLL5 |
| 10 | 88,275,000 | 88,425,000 | 1178 | 954 | -1.435617672 | IFT43 |
| 10 | 88,350,000 | 88,500,000 | 1179 | 1234 | -1.207733362 | IFT43,MGC166084 |
| 10 | 88,425,000 | 88,575,000 | 1180 | 721 | -0.013392333 | MGC166084 |
| 10 | 88,500,000 | 88,650,000 | 1181 | 795 | -0.988877562 | MGC166084 |
| 10 | 88,575,000 | 88,725,000 | 1182 | 889 | -1.392529679 | |
| 10 | 88,650,000 | 88,800,000 | 1183 | 566 | -1.861688522 | ESRRB |
| 10 | 88,725,000 | 88,875,000 | 1184 | 627 | -0.552972503 | ESRRB |
| 10 | 88,800,000 | 88,950,000 | 1185 | 543 | 0.527273056 | ESRRB |
| 10 | 88,875,000 | 89,025,000 | 1186 | 300 | -0.277230344 | |
| 10 | 88,950,000 | 89,100,000 | 1187 | 345 | -1.011808191 | ANGEL1,LRRC74A,VASH1 |
| 10 | 89,025,000 | 89,175,000 | 1188 | 517 | -1.687298865 | ANGEL1,LRRC74A,VASH1 |
| 10 | 89,100,000 | 89,250,000 | 1189 | 556 | -3.010477459 | IRF2BPL,LRRC74A |
| 10 | 89,175,000 | 89,325,000 | 1190 | 307 | -3.121674365 | IRF2BPL |
| 10 | 89,250,000 | 89,400,000 | 1191 | 154 | -1.807399124 | KIAA1737,ZDHHC2 |
| 10 | 89,325,000 | 89,475,000 | 1192 | 377 | -1.037989381 | KIAA1737,ZDHHC2 |
| 10 | 89,400,000 | 89,550,000 | 1193 | 530 | -0.900958551 | NGB,POMT2,TMEM63C,ZDHHC2 |
| 10 | 89,475,000 | 89,625,000 | 1194 | 395 | -1.338152081 | GSTZ1,NGB,POMT2,TMED8,TMEM63C |
| 10 | 89,550,000 | 89,700,000 | 1195 | 321 | -0.343088506 | GSTZ1,NOXRED1,POMT2,SAMD15,TMED8,VIPAS39 |
| 10 | 89,625,000 | 89,775,000 | 1196 | 314 | 0.192710502 | AHSA1,ISM2,NOXRED1,SAMD15,SPTLC2,TMED8,VIPAS39 |
| 10 | 89,700,000 | 89,850,000 | 1197 | 387 | 0.293373693 | AHSA1,ISM2,SPTLC2,VIPAS39 |
| 10 | 89,775,000 | 89,925,000 | 1198 | 720 | -0.123190395 | ALKBH1,SLIRP,SNW1,SPTLC2 |
| 10 | 89,850,000 | 90,000,000 | 1199 | 835 | -0.198102045 | ALKBH1,SLIRP,SNW1,SPTLC2 |
| 10 | 89,925,000 | 90,075,000 | 1200 | 994 | 0.053079223 | ADCK1,SNW1 |
| 10 | 90,000,000 | 90,150,000 | 1201 | 1041 | 0.561537658 | ADCK1 |
| 10 | 90,075,000 | 90,225,000 | 1202 | 821 | 0.624460873 | ADCK1 |
| 10 | 90,150,000 | 90,300,000 | 1203 | 852 | -0.018863786 | |
| 10 | 90,225,000 | 90,375,000 | 1204 | 835 | 0.066401017 | |
| 10 | 90,300,000 | 90,450,000 | 1205 | 635 | -0.001244713 | |
| 10 | 90,375,000 | 90,525,000 | 1206 | 495 | 0.485538546 | |
| 10 | 90,450,000 | 90,600,000 | 1207 | 543 | 0.808233799 | |
| 10 | 90,525,000 | 90,675,000 | 1208 | 866 | 0.970358581 | |
| 10 | 90,600,000 | 90,750,000 | 1209 | 1168 | 0.582310557 | |
| 10 | 90,675,000 | 90,825,000 | 1210 | 1097 | 0.160425105 | |
| 10 | 90,750,000 | 90,900,000 | 1211 | 763 | 0.444243085 | |
| 10 | 90,825,000 | 90,975,000 | 1212 | 641 | 0.228011778 | |
| 10 | 90,900,000 | 91,050,000 | 1213 | 776 | -1.437985523 | |
| 10 | 90,975,000 | 91,125,000 | 1214 | 1045 | -1.143087558 | |
| 10 | 91,050,000 | 91,200,000 | 1215 | 1131 | 0.34866741 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 91,125,000 | 91,275,000 | 1216 | 703 | -0.137627879 | |
| 10 | 91,200,000 | 91,350,000 | 1217 | 860 | -0.312355735 | |
| 10 | 91,275,000 | 91,425,000 | 1218 | 1148 | -0.511296459 | |
| 10 | 91,350,000 | 91,500,000 | 1219 | 1487 | -0.466306054 | |
| 10 | 91,425,000 | 91,575,000 | 1220 | 1641 | -0.382149487 | |
| 10 | 91,500,000 | 91,650,000 | 1221 | 1057 | -0.30087288 | ENSBTAG00000025324 |
| 10 | 91,575,000 | 91,725,000 | 1222 | 1007 | 0.449055853 | ENSBTAG00000025324 |
| 10 | 91,650,000 | 91,800,000 | 1223 | 1090 | 0.517965179 | ENSBTAG00000025324 |
| 10 | 91,725,000 | 91,875,000 | 1224 | 940 | 0.777441933 | ENSBTAG00000025324 |
| 10 | 91,800,000 | 91,950,000 | 1225 | 927 | 0.923415695 | ENSBTAG00000025324 |
| 10 | 91,875,000 | 92,025,000 | 1226 | 1137 | -0.38346868 | ENSBTAG00000025324 |
| 10 | 91,950,000 | 92,100,000 | 1227 | 902 | -1.041870686 | ENSBTAG00000025324 |
| 10 | 92,025,000 | 92,175,000 | 1228 | 694 | -0.710592414 | ENSBTAG00000025324 |
| 10 | 92,100,000 | 92,250,000 | 1229 | 663 | -0.753794819 | ENSBTAG00000025324 |
| 10 | 92,175,000 | 92,325,000 | 1230 | 517 | -0.8135988 | ENSBTAG00000025324 |
| 10 | 92,250,000 | 92,400,000 | 1231 | 918 | 0.775743895 | |
| 10 | 92,325,000 | 92,475,000 | 1232 | 900 | 1.077841247 | |
| 10 | 92,400,000 | 92,550,000 | 1233 | 613 | 0.982293108 | |
| 10 | 92,475,000 | 92,625,000 | 1234 | 606 | 0.981329805 | DIO2 |
| 10 | 92,550,000 | 92,700,000 | 1235 | 689 | 0.646839687 | DIO2 |
| 10 | 92,625,000 | 92,775,000 | 1236 | 562 | 0.462594882 | DIO2 |
| 10 | 92,700,000 | 92,850,000 | 1237 | 465 | -0.040645542 | |
| 10 | 92,775,000 | 92,925,000 | 1238 | 710 | 0.242387362 | ENSBTAG00000040167,ENSBTAG00000047260 |
| 10 | 92,850,000 | 93,000,000 | 1239 | 742 | -2.117402461 | ENSBTAG00000040167,ENSBTAG00000047260 |
| 10 | 92,925,000 | 93,075,000 | 1240 | 620 | -3.627451352 | ENSBTAG00000047260 |
| 10 | 93,000,000 | 93,150,000 | 1241 | 469 | -1.076888414 | |
| 10 | 93,075,000 | 93,225,000 | 1242 | 466 | -1.168978218 | ENSBTAG00000021708 |
| 10 | 93,150,000 | 93,300,000 | 1243 | 429 | -1.927536347 | ENSBTAG00000021708 |
| 10 | 93,225,000 | 93,375,000 | 1244 | 265 | -3.011227685 | ENSBTAG00000021708,ENSBTAG00000047322 |
| 10 | 93,300,000 | 93,450,000 | 1245 | 450 | -2.079714245 | TSHR,ENSBTAG00000021708,ENSBTAG00000047322 |
| 10 | 93,375,000 | 93,525,000 | 1246 | 779 | -0.665665839 | TSHR |
| 10 | 93,450,000 | 93,600,000 | 1247 | 610 | -0.07030353 | TSHR |
| 10 | 93,525,000 | 93,675,000 | 1248 | 283 | -1.218599024 | GTF2A1,TSHR |
| 10 | 93,600,000 | 93,750,000 | 1249 | 422 | -1.245842902 | GTF2A1,STON2 |
| 10 | 93,675,000 | 93,825,000 | 1250 | 1003 | 0.214428736 | GTF2A1,STON2 |
| 10 | 93,750,000 | 93,900,000 | 1251 | 1076 | -0.046570755 | STON2 |
| 10 | 93,825,000 | 93,975,000 | 1252 | 732 | -0.365191947 | SEL1L |
| 10 | 93,900,000 | 94,050,000 | 1253 | 913 | 0.441409356 | SEL1L |
| 10 | 93,975,000 | 94,125,000 | 1254 | 823 | 0.101001384 | |
| 10 | 94,050,000 | 94,200,000 | 1255 | 837 | -2.17322045 | |
| 10 | 94,125,000 | 94,275,000 | 1256 | 965 | -1.790679246 | |
| 10 | 94,200,000 | 94,350,000 | 1257 | 700 | 0.504142245 | |
| 10 | 94,275,000 | 94,425,000 | 1258 | 749 | 1.083769306 | |
| 10 | 94,350,000 | 94,500,000 | 1259 | 760 | 1.015158595 | |
| 10 | 94,425,000 | 94,575,000 | 1260 | 492 | -0.464501923 | |
| 10 | 94,500,000 | 94,650,000 | 1261 | 777 | -2.992966689 | |
| 10 | 94,575,000 | 94,725,000 | 1262 | 1027 | -1.849088415 | |
| 10 | 94,650,000 | 94,800,000 | 1263 | 837 | 0.096357369 | |
| 10 | 94,725,000 | 94,875,000 | 1264 | 599 | 0.514380838 | |
| 10 | 94,800,000 | 94,950,000 | 1265 | 684 | 1.233222675 | |
| 10 | 94,875,000 | 95,025,000 | 1266 | 834 | 1.297365589 | |
| 10 | 94,950,000 | 95,100,000 | 1267 | 1044 | -0.020311502 | |
| 10 | 95,025,000 | 95,175,000 | 1268 | 1293 | -0.50061838 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--------------------|
| 10 | 95,100,000 | 95,250,000 | 1269 | 1257 | -1.159864254 | |
| 10 | 95,175,000 | 95,325,000 | 1270 | 1108 | -0.956314822 | |
| 10 | 95,250,000 | 95,400,000 | 1271 | 1144 | 0.407084744 | |
| 10 | 95,325,000 | 95,475,000 | 1272 | 1350 | 0.384836149 | ENSBTAG00000018039 |
| 10 | 95,400,000 | 95,550,000 | 1273 | 1499 | 0.556348476 | ENSBTAG00000018039 |
| 10 | 95,475,000 | 95,625,000 | 1274 | 1335 | 0.472554445 | |
| 10 | 95,550,000 | 95,700,000 | 1275 | 766 | 0.722484073 | |
| 10 | 95,625,000 | 95,775,000 | 1276 | 632 | 0.791207306 | |
| 10 | 95,700,000 | 95,850,000 | 1277 | 1211 | -0.286911923 | |
| 10 | 95,775,000 | 95,925,000 | 1278 | 1531 | -0.091580188 | |
| 10 | 95,850,000 | 96,000,000 | 1279 | 1238 | 0.476813474 | |
| 10 | 95,925,000 | 96,075,000 | 1280 | 1012 | 0.941662927 | |
| 10 | 96,000,000 | 96,150,000 | 1281 | 1047 | 0.419217649 | |
| 10 | 96,075,000 | 96,225,000 | 1282 | 1243 | -0.522554606 | |
| 10 | 96,150,000 | 96,300,000 | 1283 | 1132 | -0.654106446 | |
| 10 | 96,225,000 | 96,375,000 | 1284 | 660 | 0.053093381 | |
| 10 | 96,300,000 | 96,450,000 | 1285 | 466 | 1.231508968 | |
| 10 | 96,375,000 | 96,525,000 | 1286 | 554 | 0.87006884 | |
| 10 | 96,450,000 | 96,600,000 | 1287 | 884 | 0.874858852 | |
| 10 | 96,525,000 | 96,675,000 | 1288 | 1051 | 1.039354346 | |
| 10 | 96,600,000 | 96,750,000 | 1289 | 660 | 0.749631323 | |
| 10 | 96,675,000 | 96,825,000 | 1290 | 1129 | -2.333990057 | |
| 10 | 96,750,000 | 96,900,000 | 1291 | 1433 | -1.400859779 | |
| 10 | 96,825,000 | 96,975,000 | 1292 | 1349 | 0.659955965 | |
| 10 | 96,900,000 | 97,050,000 | 1293 | 1043 | -0.123708509 | |
| 10 | 96,975,000 | 97,125,000 | 1294 | 1037 | -2.247274172 | |
| 10 | 97,050,000 | 97,200,000 | 1295 | 1335 | -1.609643319 | |
| 10 | 97,125,000 | 97,275,000 | 1296 | 1185 | -0.47714474 | |
| 10 | 97,200,000 | 97,350,000 | 1297 | 1337 | 0.325669337 | |
| 10 | 97,275,000 | 97,425,000 | 1298 | 1271 | 1.122491775 | |
| 10 | 97,350,000 | 97,500,000 | 1299 | 782 | 1.162381772 | |
| 10 | 97,425,000 | 97,575,000 | 1300 | 390 | 0.811713453 | |
| 10 | 97,500,000 | 97,650,000 | 1301 | 687 | 1.290715229 | |
| 10 | 97,575,000 | 97,725,000 | 1302 | 1035 | 0.643265048 | |
| 10 | 97,650,000 | 97,800,000 | 1303 | 861 | 0.201075911 | |
| 10 | 97,725,000 | 97,875,000 | 1304 | 681 | 0.179734339 | |
| 10 | 97,800,000 | 97,950,000 | 1305 | 883 | -1.390948622 | |
| 10 | 97,875,000 | 98,025,000 | 1306 | 963 | -1.955541535 | |
| 10 | 97,950,000 | 98,100,000 | 1307 | 857 | 0.773225483 | |
| 10 | 98,025,000 | 98,175,000 | 1308 | 988 | 0.200799277 | |
| 10 | 98,100,000 | 98,250,000 | 1309 | 933 | -0.962696346 | |
| 10 | 98,175,000 | 98,325,000 | 1310 | 955 | -1.056427912 | |
| 10 | 98,250,000 | 98,400,000 | 1311 | 840 | -0.75012603 | FLRT2 |
| 10 | 98,325,000 | 98,475,000 | 1312 | 680 | 0.080777915 | FLRT2 |
| 10 | 98,400,000 | 98,550,000 | 1313 | 830 | 0.459285584 | |
| 10 | 98,475,000 | 98,625,000 | 1314 | 956 | 0.740582947 | |
| 10 | 98,550,000 | 98,700,000 | 1315 | 1302 | 1.005800442 | |
| 10 | 98,625,000 | 98,775,000 | 1316 | 1470 | 0.295358935 | |
| 10 | 98,700,000 | 98,850,000 | 1317 | 1471 | -0.215600409 | |
| 10 | 98,775,000 | 98,925,000 | 1318 | 1583 | 0.847631707 | |
| 10 | 98,850,000 | 99,000,000 | 1319 | 1460 | 0.841348175 | |
| 10 | 98,925,000 | 99,075,000 | 1320 | 1435 | 0.523578863 | |
| 10 | 99,000,000 | 99,150,000 | 1321 | 1597 | 0.550508711 | |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--------------------|
| 10 | 99,075,000 | 99,225,000 | 1322 | 1656 | 0.157929702 | |
| 10 | 99,150,000 | 99,300,000 | 1323 | 1310 | -0.651106046 | |
| 10 | 99,225,000 | 99,375,000 | 1324 | 786 | -0.458333797 | |
| 10 | 99,300,000 | 99,450,000 | 1325 | 673 | 0.071636953 | |
| 10 | 99,375,000 | 99,525,000 | 1326 | 619 | 0.044988547 | |
| 10 | 99,450,000 | 99,600,000 | 1327 | 857 | -0.10107945 | |
| 10 | 99,525,000 | 99,675,000 | 1328 | 1089 | -0.384326874 | |
| 10 | 99,600,000 | 99,750,000 | 1329 | 895 | -0.00036762 | |
| 10 | 99,675,000 | 99,825,000 | 1330 | 875 | 0.890525974 | |
| 10 | 99,750,000 | 99,900,000 | 1331 | 859 | 0.831088796 | |
| 10 | 99,825,000 | 99,975,000 | 1332 | 1023 | 0.272212539 | |
| 10 | 99,900,000 | 100,050,000 | 1333 | 1239 | -0.117110633 | |
| 10 | 99,975,000 | 100,125,000 | 1334 | 965 | -0.009394271 | |
| 10 | 100,050,000 | 100,200,000 | 1335 | 1107 | 0.328785154 | |
| 10 | 100,125,000 | 100,275,000 | 1336 | 1074 | 0.408301672 | |
| 10 | 100,200,000 | 100,350,000 | 1337 | 876 | -0.094013572 | |
| 10 | 100,275,000 | 100,425,000 | 1338 | 921 | -0.409888464 | |
| 10 | 100,350,000 | 100,500,000 | 1339 | 641 | 0.09617507 | |
| 10 | 100,425,000 | 100,575,000 | 1340 | 670 | 0.783543339 | |
| 10 | 100,500,000 | 100,650,000 | 1341 | 1158 | 1.072252266 | |
| 10 | 100,575,000 | 100,725,000 | 1342 | 1275 | 0.646411655 | |
| 10 | 100,650,000 | 100,800,000 | 1343 | 1021 | 0.465996513 | GALC |
| 10 | 100,725,000 | 100,875,000 | 1344 | 1040 | 1.041230972 | GALC,GPR65 |
| 10 | 100,800,000 | 100,950,000 | 1345 | 1082 | 0.956117879 | GPR65 |
| 10 | 100,875,000 | 101,025,000 | 1346 | 1097 | 0.724901233 | KCNK10 |
| 10 | 100,950,000 | 101,100,000 | 1347 | 1172 | 0.453940077 | KCNK10 |
| 10 | 101,025,000 | 101,175,000 | 1348 | 1082 | 0.479880256 | KCNK10 |
| 10 | 101,100,000 | 101,250,000 | 1349 | 747 | 0.248423835 | PTPN21,SPATA7 |
| 10 | 101,175,000 | 101,325,000 | 1350 | 781 | -0.766484065 | PTPN21,SPATA7 |
| 10 | 101,250,000 | 101,400,000 | 1351 | 734 | -0.926128759 | EML5,PTPN21,ZC3H14 |
| 10 | 101,325,000 | 101,475,000 | 1352 | 380 | -0.911834931 | EML5,ZC3H14 |
| 10 | 101,400,000 | 101,550,000 | 1353 | 400 | -1.186037303 | EML5 |
| 10 | 101,475,000 | 101,625,000 | 1354 | 421 | -1.089784615 | EML5,TTC8 |
| 10 | 101,550,000 | 101,700,000 | 1355 | 762 | 0.094187271 | TTC8 |
| 10 | 101,625,000 | 101,775,000 | 1356 | 778 | 0.19910606 | TTC8 |
| 10 | 101,700,000 | 101,850,000 | 1357 | 817 | -0.995364862 | |
| 10 | 101,775,000 | 101,925,000 | 1358 | 925 | -0.683308937 | |
| 10 | 101,850,000 | 102,000,000 | 1359 | 722 | 0.296885418 | |
| 10 | 101,925,000 | 102,075,000 | 1360 | 1135 | 0.719811479 | FOXN3 |
| 10 | 102,000,000 | 102,150,000 | 1361 | 1072 | 0.522331636 | FOXN3 |
| 10 | 102,075,000 | 102,225,000 | 1362 | 761 | -0.105046581 | FOXN3 |
| 10 | 102,150,000 | 102,300,000 | 1363 | 818 | 0.467535154 | FOXN3 |
| 10 | 102,225,000 | 102,375,000 | 1364 | 779 | 0.30271853 | FOXN3 |
| 10 | 102,300,000 | 102,450,000 | 1365 | 800 | 0.451750988 | FOXN3 |
| 10 | 102,375,000 | 102,525,000 | 1366 | 1126 | 0.59815129 | |
| 10 | 102,450,000 | 102,600,000 | 1367 | 1305 | 0.54141826 | |
| 10 | 102,525,000 | 102,675,000 | 1368 | 1078 | 0.710132637 | EFCAB11 |
| 10 | 102,600,000 | 102,750,000 | 1369 | 935 | 0.97065294 | EFCAB11,TDP1 |
| 10 | 102,675,000 | 102,825,000 | 1370 | 962 | 1.150310173 | EFCAB11,TDP1 |
| 10 | 102,750,000 | 102,900,000 | 1371 | 1076 | 0.999532035 | KCNK13,TDP1 |
| 10 | 102,825,000 | 102,975,000 | 1372 | 1327 | 0.251155835 | KCNK13,NRDE2,PSMC1 |
| 10 | 102,900,000 | 103,050,000 | 1373 | 1169 | -0.542048434 | NRDE2,PSMC1 |
| 10 | 102,975,000 | 103,125,000 | 1374 | 721 | 0.542674469 | CALM |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|---|
| 10 | 103,050,000 | 103,200,000 | 1375 | 919 | 1.211848609 | CALM,TTC7B |
| 10 | 103,125,000 | 103,275,000 | 1376 | 1012 | 0.984078471 | TTC7B |
| 10 | 103,200,000 | 103,350,000 | 1377 | 1015 | -0.023246644 | TTC7B |
| 10 | 103,275,000 | 103,425,000 | 1378 | 1150 | -0.923667615 | TTC7B |
| 10 | 103,350,000 | 103,500,000 | 1379 | 853 | -1.135917954 | TTC7B |
| 10 | 103,425,000 | 103,575,000 | 1380 | 489 | -0.058089204 | RPS6KA5 |
| 10 | 103,500,000 | 103,650,000 | 1381 | 697 | 0.803859621 | RPS6KA5 |
| 10 | 103,575,000 | 103,725,000 | 1382 | 972 | 0.656434306 | RPS6KA5 |
| 10 | 103,650,000 | 103,800,000 | 1383 | 1015 | 0.327966509 | RPS6KA5 |
| 10 | 103,725,000 | 103,875,000 | 1384 | 873 | 0.299503233 | CASC4 |
| 10 | 103,800,000 | 103,950,000 | 1385 | 512 | 0.138822639 | CASC4,CTDSPL2 |
| 10 | 103,875,000 | 104,025,000 | 1386 | 399 | -0.956429571 | CASC4,CTDSPL2,EIF3J,SPG11 |
| 10 | 103,950,000 | 104,100,000 | 1387 | 530 | -3.056190722 | CTDSPL2,EIF3J,PATL2,SPG11 |
| 10 | 104,025,000 | 104,175,000 | 1388 | 576 | -3.684963644 | B2M,PATL2,SPG11 |
| 10 | 104,100,000 | 104,250,000 | 1389 | 461 | -2.462385659 | B2M,C10H15orf43,TRIM69 |
| 10 | 104,175,000 | 104,305,016 | 1390 | 377 | -0.408831184 | C10H15orf43,TRIM69 |
| 11 | 0 | 150,000 | 1 | 367 | -0.458904006 | ZC3H6,ENSBTAG00000038257 |
| 11 | 75,000 | 225,000 | 2 | 955 | 0.259992384 | FBLN7,ZC3H6,ZC3H8 |
| 11 | 150,000 | 300,000 | 3 | 1116 | 0.514116338 | FBLN7,TMEM87B,ZC3H8 |
| 11 | 225,000 | 375,000 | 4 | 939 | 0.646959448 | FBLN7,MERTK,TMEM87B |
| 11 | 300,000 | 450,000 | 5 | 1129 | 0.608764836 | MERTK,TMEM87B |
| 11 | 375,000 | 525,000 | 6 | 1054 | 0.748118076 | ANAPC1,MERTK |
| 11 | 450,000 | 600,000 | 7 | 794 | 0.987669288 | ANAPC1,ENSBTAG00000023163 |
| 11 | 525,000 | 675,000 | 8 | 784 | 0.118087919 | ANAPC1,ENSBTAG00000023163 |
| 11 | 600,000 | 750,000 | 9 | 962 | -0.743829753 | |
| 11 | 675,000 | 825,000 | 10 | 988 | -0.415607235 | |
| 11 | 750,000 | 900,000 | 11 | 724 | -0.913827101 | |
| 11 | 825,000 | 975,000 | 12 | 627 | -0.877776725 | |
| 11 | 900,000 | 1,050,000 | 13 | 774 | -0.38449216 | |
| 11 | 975,000 | 1,125,000 | 14 | 763 | -0.193582113 | |
| 11 | 1,050,000 | 1,200,000 | 15 | 841 | 0.768130887 | BCL2L11 |
| 11 | 1,125,000 | 1,275,000 | 16 | 805 | 0.564801532 | ACOXL,BCL2L11 |
| 11 | 1,200,000 | 1,350,000 | 17 | 736 | -0.267125328 | ACOXL |
| 11 | 1,275,000 | 1,425,000 | 18 | 745 | -0.341021327 | ACOXL |
| 11 | 1,350,000 | 1,500,000 | 19 | 654 | 0.174782183 | ACOXL |
| 11 | 1,425,000 | 1,575,000 | 20 | 785 | -0.809115789 | ACOXL,BUB1 |
| 11 | 1,500,000 | 1,650,000 | 21 | 950 | -2.444624476 | ACOXL,BUB1,TPC3 |
| 11 | 1,575,000 | 1,725,000 | 22 | 719 | -3.296314102 | BUB1,LINC00116,NPHP1,TPC3 |
| 11 | 1,650,000 | 1,800,000 | 23 | 531 | -1.512031703 | LINC00116,MALL,NPHP1 |
| 11 | 1,725,000 | 1,875,000 | 24 | 688 | -1.060352017 | MALL,NPHP1,ENSBTAG00000034586 |
| 11 | 1,800,000 | 1,950,000 | 25 | 1152 | -0.373612474 | MRPS5,ZNF514,ENSBTAG00000034586,ENSBTAG00000034657 |
| 11 | 1,875,000 | 2,025,000 | 26 | 1175 | -0.030257125 | MRPS5,PROM2,ZNF2,ZNF514,ENSBTAG00000034657,ENSBTAG00000047503 |
| 11 | 1,950,000 | 2,100,000 | 27 | 1052 | -0.095875143 | PROM2,ZNF2,ENSBTAG00000017955,ENSBTAG00000047503 |
| 11 | 2,025,000 | 2,175,000 | 28 | 1219 | 0.302886715 | GPAT2,ENSBTAG00000011553,ENSBTAG00000017955 |
| 11 | 2,100,000 | 2,250,000 | 29 | 1032 | 0.367099713 | ADRA2B,ASTL,GPAT2,ENSBTAG00000011553 |
| 11 | 2,175,000 | 2,325,000 | 30 | 727 | 0.537243619 | ADRA2B,ASTL,DUSP2,STARD7,TMEM127 |
| 11 | 2,250,000 | 2,400,000 | 31 | 872 | 0.571398731 | CIAO1,DUSP2,ITPRIPL1,SNRNP200,STARD7,TMEM127 |
| 11 | 2,325,000 | 2,475,000 | 32 | 1445 | -0.079882498 | CIAO1,ITPRIPL1,NCAPH,SNRNP200,TMEM127 |
| 11 | 2,400,000 | 2,550,000 | 33 | 1085 | -0.261802728 | ARID5A,NCAPH,NEURL3 |
| 11 | 2,475,000 | 2,625,000 | 34 | 485 | 0.314377416 | ARID5A,FER1L5,KANSL3,NEURL3 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 11 | 2,550,000 | 2,700,000 | 35 | 815 | 0.741233843 | CNNM4,FER1L5,KANSL3,LMAN2L |
| 11 | 2,625,000 | 2,775,000 | 36 | 1171 | 0.320214184 | ANKRD23,CNNM3,CNNM4,FER1L5,LMAN2L |
| 11 | 2,700,000 | 2,850,000 | 37 | 1215 | -0.823151199 | ANKRD23,ANKRD39,CNNM3,CNNM4,FAM178B,SEMA4C |
| 11 | 2,775,000 | 2,925,000 | 38 | 1222 | -1.325458944 | ANKRD39,COX5B,FAM178B,SEMA4C |
| 11 | 2,850,000 | 3,000,000 | 39 | 1481 | -2.357185709 | ACTR1B,COX5B,FAM178B |
| 11 | 2,925,000 | 3,075,000 | 40 | 1650 | -1.479021254 | ACTR1B,ZAP70 |
| 11 | 3,000,000 | 3,150,000 | 41 | 1113 | 0.221485024 | TMEM131,ZAP70 |
| 11 | 3,075,000 | 3,225,000 | 42 | 600 | -0.088699838 | TMEM131 |
| 11 | 3,150,000 | 3,300,000 | 43 | 798 | -0.494090105 | TMEM131 |
| 11 | 3,225,000 | 3,375,000 | 44 | 1392 | -0.360071009 | VWA3B |
| 11 | 3,300,000 | 3,450,000 | 45 | 1363 | -0.258212893 | VWA3B |
| 11 | 3,375,000 | 3,525,000 | 46 | 1410 | -0.961632683 | VWA3B |
| 11 | 3,450,000 | 3,600,000 | 47 | 1804 | -0.704792774 | CNGA3,VWA3B |
| 11 | 3,525,000 | 3,675,000 | 48 | 1667 | 0.328402634 | CNGA3,VWA3B |
| 11 | 3,600,000 | 3,750,000 | 49 | 1451 | 0.842024236 | INPP4A |
| 11 | 3,675,000 | 3,825,000 | 50 | 1325 | 0.982661482 | COA5,INPP4A,MGAT4A,UNC50 |
| 11 | 3,750,000 | 3,900,000 | 51 | 1330 | 1.074495341 | COA5,MGAT4A,UNC50 |
| 11 | 3,825,000 | 3,975,000 | 52 | 1178 | 0.875378804 | MGAT4A |
| 11 | 3,900,000 | 4,050,000 | 53 | 1171 | 0.653146157 | MGAT4A |
| 11 | 3,975,000 | 4,125,000 | 54 | 1049 | 0.738559859 | |
| 11 | 4,050,000 | 4,200,000 | 55 | 622 | 0.416776107 | TSGA10 |
| 11 | 4,125,000 | 4,275,000 | 56 | 401 | -0.91748012 | C2orf15,TSGA10 |
| 11 | 4,200,000 | 4,350,000 | 57 | 679 | -3.56847948 | C2orf15,LIPT1,LYG2,MITD1,MRPL30,TSGA10 |
| 11 | 4,275,000 | 4,425,000 | 58 | 1341 | -2.475661607 | LIPT1,LYG2,MITD1,MRPL30,TXNDC9 |
| 11 | 4,350,000 | 4,500,000 | 59 | 1266 | -1.342950079 | EIF5B,TXNDC9 |
| 11 | 4,425,000 | 4,575,000 | 60 | 890 | -0.471217116 | EIF5B,REV1 |
| 11 | 4,500,000 | 4,650,000 | 61 | 872 | -0.009994762 | AFF3,EIF5B,REV1 |
| 11 | 4,575,000 | 4,725,000 | 62 | 1029 | -0.444427872 | AFF3,REV1 |
| 11 | 4,650,000 | 4,800,000 | 63 | 1611 | -0.239681203 | AFF3 |
| 11 | 4,725,000 | 4,875,000 | 64 | 1520 | 0.345688179 | |
| 11 | 4,800,000 | 4,950,000 | 65 | 1067 | 0.03762525 | |
| 11 | 4,875,000 | 5,025,000 | 66 | 1118 | -0.122507232 | |
| 11 | 4,950,000 | 5,100,000 | 67 | 1290 | 0.184833467 | |
| 11 | 5,025,000 | 5,175,000 | 68 | 1239 | -0.278336757 | |
| 11 | 5,100,000 | 5,250,000 | 69 | 1318 | -0.229345894 | |
| 11 | 5,175,000 | 5,325,000 | 70 | 1477 | -0.367871664 | |
| 11 | 5,250,000 | 5,400,000 | 71 | 1467 | -0.030846325 | |
| 11 | 5,325,000 | 5,475,000 | 72 | 1598 | 0.134214905 | CHST10,LONRF2 |
| 11 | 5,400,000 | 5,550,000 | 73 | 1491 | 0.419219281 | CHST10,LONRF2,NMS |
| 11 | 5,475,000 | 5,625,000 | 74 | 950 | 0.61190003 | CHST10,NMS,PDCL3 |
| 11 | 5,550,000 | 5,700,000 | 75 | 774 | -0.235764595 | PDCL3 |
| 11 | 5,625,000 | 5,775,000 | 76 | 1043 | -0.584751659 | PTPN13 |
| 11 | 5,700,000 | 5,850,000 | 77 | 993 | -0.493401079 | PTPN13,SLC10A6 |
| 11 | 5,775,000 | 5,925,000 | 78 | 994 | -0.396934322 | NPAS2,PTPN13,SLC10A6 |
| 11 | 5,850,000 | 6,000,000 | 79 | 1099 | 0.029554519 | NPAS2 |
| 11 | 5,925,000 | 6,075,000 | 80 | 960 | 0.646253806 | NPAS2,RPL31,TBC1D8 |
| 11 | 6,000,000 | 6,150,000 | 81 | 994 | 1.101238157 | NPAS2,RPL31,TBC1D8 |
| 11 | 6,075,000 | 6,225,000 | 82 | 1127 | 1.038004069 | CNOT11,RNF149 |
| 11 | 6,150,000 | 6,300,000 | 83 | 1177 | -0.204636637 | CNOT11,CREG2,RNF149 |
| 11 | 6,225,000 | 6,375,000 | 84 | 1248 | -0.134713691 | CREG2,RFX8,RNF149 |
| 11 | 6,300,000 | 6,450,000 | 85 | 1043 | 0.192277531 | RFX8 |
| 11 | 6,375,000 | 6,525,000 | 86 | 822 | -0.505958732 | |
| 11 | 6,450,000 | 6,600,000 | 87 | 949 | -1.237311397 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 6,525,000 | 6,675,000 | 88 | 1033 | -1.555129344 | MAP4K4 |
| 11 | 6,600,000 | 6,750,000 | 89 | 929 | -1.555242542 | IL1R2,MAP4K4 |
| 11 | 6,675,000 | 6,825,000 | 90 | 722 | -1.027250301 | IL1R2 |
| 11 | 6,750,000 | 6,900,000 | 91 | 538 | -0.130333225 | IL1R1,IL1R2 |
| 11 | 6,825,000 | 6,975,000 | 92 | 689 | -0.238904281 | IL1R1 |
| 11 | 6,900,000 | 7,050,000 | 93 | 697 | -0.097607672 | IL1R1,IL1RL2 |
| 11 | 6,975,000 | 7,125,000 | 94 | 639 | 0.61404117 | IL1RL1,IL1RL2 |
| 11 | 7,050,000 | 7,200,000 | 95 | 600 | 0.754968727 | IL18R1,IL18RAP,IL1RL1 |
| 11 | 7,125,000 | 7,275,000 | 96 | 919 | 0.836082854 | IL18R1,IL18RAP,IL1RL1,SLC9A4 |
| 11 | 7,200,000 | 7,350,000 | 97 | 1122 | 0.830312617 | IL18RAP,SLC9A2,SLC9A4 |
| 11 | 7,275,000 | 7,425,000 | 98 | 1354 | 0.619347188 | MFSD9,SLC9A2,SLC9A4 |
| 11 | 7,350,000 | 7,500,000 | 99 | 1571 | 0.968437055 | MFSD9,SLC9A2,TMEM182 |
| 11 | 7,425,000 | 7,575,000 | 100 | 1263 | 0.972832417 | MFSD9,TMEM182 |
| 11 | 7,500,000 | 7,650,000 | 101 | 1187 | 0.559537733 | |
| 11 | 7,575,000 | 7,725,000 | 102 | 898 | 0.498988153 | |
| 11 | 7,650,000 | 7,800,000 | 103 | 675 | 0.905623615 | |
| 11 | 7,725,000 | 7,875,000 | 104 | 609 | 0.599064229 | |
| 11 | 7,800,000 | 7,950,000 | 105 | 530 | 0.123132548 | |
| 11 | 7,875,000 | 8,025,000 | 106 | 630 | 0.641885416 | |
| 11 | 7,950,000 | 8,100,000 | 107 | 593 | 0.872096937 | |
| 11 | 8,025,000 | 8,175,000 | 108 | 439 | 0.318843319 | |
| 11 | 8,100,000 | 8,250,000 | 109 | 402 | 0.04561477 | |
| 11 | 8,175,000 | 8,325,000 | 110 | 321 | 0.170599988 | |
| 11 | 8,250,000 | 8,400,000 | 111 | 274 | -0.419777441 | |
| 11 | 8,325,000 | 8,475,000 | 112 | 418 | -1.490086466 | |
| 11 | 8,400,000 | 8,550,000 | 113 | 404 | -1.398634411 | |
| 11 | 8,475,000 | 8,625,000 | 114 | 286 | -0.432227912 | |
| 11 | 8,550,000 | 8,700,000 | 115 | 351 | 0.14573766 | |
| 11 | 8,625,000 | 8,775,000 | 116 | 584 | -0.00444137 | |
| 11 | 8,700,000 | 8,850,000 | 117 | 591 | -0.611082377 | |
| 11 | 8,775,000 | 8,925,000 | 118 | 395 | -0.553432487 | |
| 11 | 8,850,000 | 9,000,000 | 119 | 329 | 0.455468491 | |
| 11 | 8,925,000 | 9,075,000 | 120 | 416 | 0.980569342 | |
| 11 | 9,000,000 | 9,150,000 | 121 | 983 | 0.737487176 | MRPS9 |
| 11 | 9,075,000 | 9,225,000 | 122 | 1444 | 0.443499865 | GPR45,MRPS9,TGFBRAP1 |
| 11 | 9,150,000 | 9,300,000 | 123 | 1275 | 0.176126442 | C2orf49,FHL2,GPR45,MRPS9,TGFBRAP1 |
| 11 | 9,225,000 | 9,375,000 | 124 | 1114 | 0.364188439 | C2orf49,FHL2,TGFBRAP1 |
| 11 | 9,300,000 | 9,450,000 | 125 | 1160 | 0.218060043 | FHL2 |
| 11 | 9,375,000 | 9,525,000 | 126 | 1118 | -0.22620411 | NK1R |
| 11 | 9,450,000 | 9,600,000 | 127 | 766 | 0.535923542 | NK1R |
| 11 | 9,525,000 | 9,675,000 | 128 | 614 | 1.305476028 | NK1R |
| 11 | 9,600,000 | 9,750,000 | 129 | 911 | -0.768576758 | HK2,NK1R,POLE4 |
| 11 | 9,675,000 | 9,825,000 | 130 | 905 | -0.892456508 | HK2,POLE4 |
| 11 | 9,750,000 | 9,900,000 | 131 | 678 | 0.318366697 | HK2 |
| 11 | 9,825,000 | 9,975,000 | 132 | 531 | -0.008772708 | M1AP,SEMA4F |
| 11 | 9,900,000 | 10,050,000 | 133 | 322 | -0.430534646 | M1AP,SEMA4F |
| 11 | 9,975,000 | 10,125,000 | 134 | 246 | -0.366034735 | AUP1,DOK1,DQX1,HTRA2,LBX2,LOXL3,M1AP,PCGF1,TLX2 |
| 11 | 10,050,000 | 10,200,000 | 135 | 240 | -0.279753281 | AUP1,C11H2orf81,CCDC142,DOK1,DQX1,HTRA2,INO80B,LBX2,LOXL3,M1AP,MGC152281,MOGS,MRPL53,PCGF1,RTKN,TLX2,WBP1,WDR54 |
| 11 | 10,125,000 | 10,275,000 | 136 | 281 | 0.223306102 | C11H2orf81,CCDC142,DCTN1,INO80B,MGC152281,MOGS,MRPL53,RTKN,WBP1,WDR54 |
| 11 | 10,200,000 | 10,350,000 | 137 | 773 | 0.80834609 | DCTN1,MGC152281,SLC4A5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 10,275,000 | 10,425,000 | 138 | 879 | 0.739097311 | MTHFD2,SLC4A5 |
| 11 | 10,350,000 | 10,500,000 | 139 | 477 | 0.547096287 | BOLA3,MOBK1B,MTHFD2,SLC4A5 |
| 11 | 10,425,000 | 10,575,000 | 140 | 617 | 0.569849369 | BOLA3,MOBK1B,MTHFD2,TET3 |
| 11 | 10,500,000 | 10,650,000 | 141 | 805 | 0.43843794 | TET3 |
| 11 | 10,575,000 | 10,725,000 | 142 | 890 | 0.157303881 | ACTB,DGUOK,TET3 |
| 11 | 10,650,000 | 10,800,000 | 143 | 1238 | -0.429044908 | ACTB,DGUOK,STAMBP |
| 11 | 10,725,000 | 10,875,000 | 144 | 1167 | -0.25786806 | ACTB,C2orf78,DUSP11,STAMBP,TPRKB |
| 11 | 10,800,000 | 10,950,000 | 145 | 1237 | -0.591488811 | ALMS1,C2orf78,DUSP11,TPRKB,ENSBTAG00000047969 |
| 11 | 10,875,000 | 11,025,000 | 146 | 1306 | -0.961623675 | ALMS1,ENSBTAG00000047969 |
| 11 | 10,950,000 | 11,100,000 | 147 | 1322 | 0.577491869 | ALMS1 |
| 11 | 11,025,000 | 11,175,000 | 148 | 1212 | 0.593586802 | ALMS1,EGR4,FBXO41 |
| 11 | 11,100,000 | 11,250,000 | 149 | 966 | 0.77704399 | C11H2ORF7,CCT7,EGR4,FBXO41,NOTO,SMYD5 |
| 11 | 11,175,000 | 11,325,000 | 150 | 1148 | 0.468521379 | C11H2ORF7,CCT7,FBXO41,NOTO,RAB11FIP5,SMYD5 |
| 11 | 11,250,000 | 11,400,000 | 151 | 1098 | -0.864179865 | RAB11FIP5,SFXN5 |
| 11 | 11,325,000 | 11,475,000 | 152 | 1173 | -1.4972104 | RAB11FIP5,SFXN5 |
| 11 | 11,400,000 | 11,550,000 | 153 | 1055 | -0.121049205 | EMX1,SFXN5,SPR |
| 11 | 11,475,000 | 11,625,000 | 154 | 787 | 1.06399378 | EMX1,EXOC6B,SFXN5,SPR |
| 11 | 11,550,000 | 11,700,000 | 155 | 655 | 0.927594724 | EXOC6B |
| 11 | 11,625,000 | 11,775,000 | 156 | 610 | 0.747933405 | EXOC6B |
| 11 | 11,700,000 | 11,850,000 | 157 | 711 | 0.896767147 | EXOC6B |
| 11 | 11,775,000 | 11,925,000 | 158 | 805 | 0.52419788 | EXOC6B,ENSBTAG00000039263 |
| 11 | 11,850,000 | 12,000,000 | 159 | 681 | 0.442432143 | EXOC6B,ENSBTAG00000039263 |
| 11 | 11,925,000 | 12,075,000 | 160 | 696 | 0.424211581 | EXOC6B |
| 11 | 12,000,000 | 12,150,000 | 161 | 806 | -0.7550722 | EXOC6B |
| 11 | 12,075,000 | 12,225,000 | 162 | 807 | 0.521025335 | EXOC6B |
| 11 | 12,150,000 | 12,300,000 | 163 | 760 | 1.115509036 | EXOC6B |
| 11 | 12,225,000 | 12,375,000 | 164 | 784 | 1.107732012 | CYP26B1,EXOC6B |
| 11 | 12,300,000 | 12,450,000 | 165 | 857 | 0.739637074 | CYP26B1,EXOC6B |
| 11 | 12,375,000 | 12,525,000 | 166 | 710 | 0.115457417 | CYP26B1 |
| 11 | 12,450,000 | 12,600,000 | 167 | 632 | 0.076849102 | |
| 11 | 12,525,000 | 12,675,000 | 168 | 462 | 0.288931263 | |
| 11 | 12,600,000 | 12,750,000 | 169 | 408 | -0.211979361 | |
| 11 | 12,675,000 | 12,825,000 | 170 | 385 | -0.447077311 | |
| 11 | 12,750,000 | 12,900,000 | 171 | 403 | -0.389549831 | DYSF |
| 11 | 12,825,000 | 12,975,000 | 172 | 460 | -0.799353087 | DYSF |
| 11 | 12,900,000 | 13,050,000 | 173 | 426 | -0.437689232 | DYSF |
| 11 | 12,975,000 | 13,125,000 | 174 | 525 | 0.270306892 | DYSF |
| 11 | 13,050,000 | 13,200,000 | 175 | 423 | -0.790036578 | DYSF,ZNF638 |
| 11 | 13,125,000 | 13,275,000 | 176 | 276 | -3.113644315 | ZNF638 |
| 11 | 13,200,000 | 13,350,000 | 177 | 359 | -0.471655778 | ZNF638 |
| 11 | 13,275,000 | 13,425,000 | 178 | 519 | 0.386296243 | NAGK,PAIP2B |
| 11 | 13,350,000 | 13,500,000 | 179 | 650 | 0.511393398 | ANKRD53,ATP6V1B1,NAGK,PAIP2B,TEX261,VAX2 |
| 11 | 13,425,000 | 13,575,000 | 180 | 692 | 0.852991223 | ANKRD53,ATP6V1B1,CD207,TEX261,VAX2 |
| 11 | 13,500,000 | 13,650,000 | 181 | 882 | 0.381986045 | CD207,CLEC4F,FIGLA,VAX2 |
| 11 | 13,575,000 | 13,725,000 | 182 | 899 | 0.123455877 | ADD2,CD207,CLEC4F,FIGLA |
| 11 | 13,650,000 | 13,800,000 | 183 | 809 | 0.33739768 | ADD2 |
| 11 | 13,725,000 | 13,875,000 | 184 | 802 | 0.558709525 | ADD2 |
| 11 | 13,800,000 | 13,950,000 | 185 | 419 | 0.953279003 | |
| 11 | 13,875,000 | 14,025,000 | 186 | 256 | 0.959233288 | TGFA |
| 11 | 13,950,000 | 14,100,000 | 187 | 698 | 0.138850946 | TGFA |
| 11 | 14,025,000 | 14,175,000 | 188 | 769 | -0.45553371 | FAM136A |
| 11 | 14,100,000 | 14,250,000 | 189 | 446 | -0.264810444 | FAM136A,XDH |
| 11 | 14,175,000 | 14,325,000 | 190 | 420 | 0.363270135 | XDH |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 11 | 14,250,000 | 14,400,000 | 191 | 524 | 1.109295645 | SRD5A2,XDH |
| 11 | 14,325,000 | 14,475,000 | 192 | 373 | 1.339048811 | SRD5A2 |
| 11 | 14,400,000 | 14,550,000 | 193 | 310 | 0.954457596 | |
| 11 | 14,475,000 | 14,625,000 | 194 | 344 | 0.976591123 | MEMO1,RPL36A-HNRNPH2 |
| 11 | 14,550,000 | 14,700,000 | 195 | 236 | 0.859673437 | DPY30,MEMO1,RPL36A-HNRNPH2 |
| 11 | 14,625,000 | 14,775,000 | 196 | 188 | 0.806712267 | DPY30,MEMO1,SPAST |
| 11 | 14,700,000 | 14,850,000 | 197 | 408 | -0.295613363 | NLRC4,SLC30A6,SPAST |
| 11 | 14,775,000 | 14,925,000 | 198 | 712 | -0.121598344 | NLRC4,SLC30A6,YIPF4 |
| 11 | 14,850,000 | 15,000,000 | 199 | 703 | 0.438658927 | BIRC6,NLRC4,YIPF4 |
| 11 | 14,925,000 | 15,075,000 | 200 | 474 | 0.396945025 | BIRC6,YIPF4 |
| 11 | 15,000,000 | 15,150,000 | 201 | 274 | -0.658063553 | BIRC6 |
| 11 | 15,075,000 | 15,225,000 | 202 | 386 | -0.943134028 | BIRC6,TTC27 |
| 11 | 15,150,000 | 15,300,000 | 203 | 453 | -0.168169031 | BIRC6,TTC27 |
| 11 | 15,225,000 | 15,375,000 | 204 | 486 | 0.281703771 | TTC27 |
| 11 | 15,300,000 | 15,450,000 | 205 | 559 | -0.484253172 | TTC27 |
| 11 | 15,375,000 | 15,525,000 | 206 | 496 | -0.183602347 | LTBP1,TTC27 |
| 11 | 15,450,000 | 15,600,000 | 207 | 357 | 0.872843514 | LTBP1 |
| 11 | 15,525,000 | 15,675,000 | 208 | 439 | 0.739762623 | LTBP1 |
| 11 | 15,600,000 | 15,750,000 | 209 | 577 | -0.796845728 | LTBP1 |
| 11 | 15,675,000 | 15,825,000 | 210 | 446 | -2.120580272 | LTBP1 |
| 11 | 15,750,000 | 15,900,000 | 211 | 471 | -1.335430027 | LTBP1 |
| 11 | 15,825,000 | 15,975,000 | 212 | 620 | -0.359656485 | LTBP1 |
| 11 | 15,900,000 | 16,050,000 | 213 | 650 | 0.451946367 | LTBP1 |
| 11 | 15,975,000 | 16,125,000 | 214 | 668 | 0.792245016 | RASGRP3 |
| 11 | 16,050,000 | 16,200,000 | 215 | 623 | 0.788913422 | FAM98A,RASGRP3 |
| 11 | 16,125,000 | 16,275,000 | 216 | 472 | 0.233472831 | FAM98A,RASGRP3 |
| 11 | 16,200,000 | 16,350,000 | 217 | 520 | 0.091910415 | |
| 11 | 16,275,000 | 16,425,000 | 218 | 800 | -0.531743877 | |
| 11 | 16,350,000 | 16,500,000 | 219 | 921 | -0.078496369 | |
| 11 | 16,425,000 | 16,575,000 | 220 | 897 | 0.150612505 | |
| 11 | 16,500,000 | 16,650,000 | 221 | 669 | -0.562809003 | |
| 11 | 16,575,000 | 16,725,000 | 222 | 412 | -1.195865839 | |
| 11 | 16,650,000 | 16,800,000 | 223 | 520 | 0.093446053 | |
| 11 | 16,725,000 | 16,875,000 | 224 | 712 | -1.436971672 | |
| 11 | 16,800,000 | 16,950,000 | 225 | 918 | -3.578261479 | |
| 11 | 16,875,000 | 17,025,000 | 226 | 1023 | -2.499611584 | |
| 11 | 16,950,000 | 17,100,000 | 227 | 1001 | -0.30555312 | |
| 11 | 17,025,000 | 17,175,000 | 228 | 790 | 0.030437902 | |
| 11 | 17,100,000 | 17,250,000 | 229 | 633 | 0.394793433 | |
| 11 | 17,175,000 | 17,325,000 | 230 | 735 | 0.71410366 | |
| 11 | 17,250,000 | 17,400,000 | 231 | 1015 | 1.009889305 | |
| 11 | 17,325,000 | 17,475,000 | 232 | 932 | 1.063721454 | |
| 11 | 17,400,000 | 17,550,000 | 233 | 637 | 0.895042074 | |
| 11 | 17,475,000 | 17,625,000 | 234 | 705 | 0.478799661 | |
| 11 | 17,550,000 | 17,700,000 | 235 | 953 | 0.174344574 | |
| 11 | 17,625,000 | 17,775,000 | 236 | 1125 | -0.706155208 | |
| 11 | 17,700,000 | 17,850,000 | 237 | 1235 | -1.188995678 | |
| 11 | 17,775,000 | 17,925,000 | 238 | 1275 | -0.425761296 | |
| 11 | 17,850,000 | 18,000,000 | 239 | 1204 | 0.240555439 | |
| 11 | 17,925,000 | 18,075,000 | 240 | 1000 | 0.458822003 | |
| 11 | 18,000,000 | 18,150,000 | 241 | 695 | 0.096811369 | |
| 11 | 18,075,000 | 18,225,000 | 242 | 728 | 0.090507236 | |
| 11 | 18,150,000 | 18,300,000 | 243 | 724 | 0.13960877 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 18,225,000 | 18,375,000 | 244 | 791 | 0.683652665 | |
| 11 | 18,300,000 | 18,450,000 | 245 | 1104 | 0.137535522 | |
| 11 | 18,375,000 | 18,525,000 | 246 | 1050 | -0.280064366 | |
| 11 | 18,450,000 | 18,600,000 | 247 | 808 | 0.463550008 | |
| 11 | 18,525,000 | 18,675,000 | 248 | 739 | 0.352935079 | |
| 11 | 18,600,000 | 18,750,000 | 249 | 953 | 0.21920623 | |
| 11 | 18,675,000 | 18,825,000 | 250 | 797 | 0.512058637 | |
| 11 | 18,750,000 | 18,900,000 | 251 | 523 | 0.492109326 | CRIM1 |
| 11 | 18,825,000 | 18,975,000 | 252 | 530 | -0.181974028 | CRIM1 |
| 11 | 18,900,000 | 19,050,000 | 253 | 453 | -0.945188037 | CRIM1,FEZ2 |
| 11 | 18,975,000 | 19,125,000 | 254 | 707 | 0.037290187 | CRIM1,FEZ2 |
| 11 | 19,050,000 | 19,200,000 | 255 | 657 | 0.123029806 | FEZ2,VIT |
| 11 | 19,125,000 | 19,275,000 | 256 | 719 | -0.317232856 | VIT |
| 11 | 19,200,000 | 19,350,000 | 257 | 671 | -0.52886789 | STRN,VIT |
| 11 | 19,275,000 | 19,425,000 | 258 | 315 | -0.95759346 | STRN,VIT |
| 11 | 19,350,000 | 19,500,000 | 259 | 473 | 0.120047699 | HEATR5B,STRN |
| 11 | 19,425,000 | 19,575,000 | 260 | 659 | 0.138216307 | GPATCH11,HEATR5B,STRN |
| 11 | 19,500,000 | 19,650,000 | 261 | 602 | -0.387138037 | EIF2AK2,GPATCH11,HEATR5B,SULT6B1 |
| 11 | 19,575,000 | 19,725,000 | 262 | 411 | -0.338700777 | CEBPZ,EIF2AK2,GPATCH11,NDUFAF7,PRKD3,SULT6B1 |
| 11 | 19,650,000 | 19,800,000 | 263 | 341 | -0.091009761 | CEBPZ,NDUFAF7,PRKD3 |
| 11 | 19,725,000 | 19,875,000 | 264 | 364 | 0.396995089 | PRKD3,QPCT |
| 11 | 19,800,000 | 19,950,000 | 265 | 439 | 0.996913966 | QPCT |
| 11 | 19,875,000 | 20,025,000 | 266 | 628 | 1.202681832 | |
| 11 | 19,950,000 | 20,100,000 | 267 | 648 | 1.169390291 | |
| 11 | 20,025,000 | 20,175,000 | 268 | 420 | 1.042207875 | CDC42EP3 |
| 11 | 20,100,000 | 20,250,000 | 269 | 282 | 0.891913501 | CDC42EP3 |
| 11 | 20,175,000 | 20,325,000 | 270 | 488 | 0.59520674 | |
| 11 | 20,250,000 | 20,400,000 | 271 | 769 | 0.377996115 | RMDN2 |
| 11 | 20,325,000 | 20,475,000 | 272 | 819 | -0.428516803 | RMDN2 |
| 11 | 20,400,000 | 20,550,000 | 273 | 569 | -0.620903455 | CYP1B1,RMDN2 |
| 11 | 20,475,000 | 20,625,000 | 274 | 549 | 0.393526962 | CYP1B1 |
| 11 | 20,550,000 | 20,700,000 | 275 | 706 | -0.722864815 | ATL2 |
| 11 | 20,625,000 | 20,775,000 | 276 | 606 | -1.37648579 | ATL2 |
| 11 | 20,700,000 | 20,850,000 | 277 | 784 | -0.229359903 | ATL2 |
| 11 | 20,775,000 | 20,925,000 | 278 | 802 | 0.217377924 | |
| 11 | 20,850,000 | 21,000,000 | 279 | 400 | 0.395773763 | HNRNPLL |
| 11 | 20,925,000 | 21,075,000 | 280 | 327 | 0.422277234 | GALM,HNRNPLL |
| 11 | 21,000,000 | 21,150,000 | 281 | 536 | 0.767926823 | GALM,GEMIN6,SRSF7,ENSBTAG00000012984 |
| 11 | 21,075,000 | 21,225,000 | 282 | 506 | 0.479663092 | DHX57,GALM,GEMIN6,SRSF7,ENSBTAG00000012984 |
| 11 | 21,150,000 | 21,300,000 | 283 | 440 | -1.653825186 | ARHGEF33,DHX57,GEMIN6,MORN2 |
| 11 | 21,225,000 | 21,375,000 | 284 | 435 | -2.351032944 | ARHGEF33,MORN2,SOS1 |
| 11 | 21,300,000 | 21,450,000 | 285 | 554 | -2.054334496 | ARHGEF33,SOS1 |
| 11 | 21,375,000 | 21,525,000 | 286 | 745 | -1.273837774 | SOS1 |
| 11 | 21,450,000 | 21,600,000 | 287 | 829 | -0.145088083 | CDKL4,MAP4K3,ENSBTAG00000032775 |
| 11 | 21,525,000 | 21,675,000 | 288 | 973 | 0.160359606 | CDKL4,MAP4K3,ENSBTAG00000032775 |
| 11 | 21,600,000 | 21,750,000 | 289 | 874 | 0.478376668 | MAP4K3 |
| 11 | 21,675,000 | 21,825,000 | 290 | 753 | 0.362623332 | MAP4K3 |
| 11 | 21,750,000 | 21,900,000 | 291 | 828 | 0.518241017 | MAP4K3 |
| 11 | 21,825,000 | 21,975,000 | 292 | 814 | 0.610727105 | |
| 11 | 21,900,000 | 22,050,000 | 293 | 598 | 0.488676518 | TMEM178 |
| 11 | 21,975,000 | 22,125,000 | 294 | 1048 | 0.091111857 | THUMPD2,TMEM178 |
| 11 | 22,050,000 | 22,200,000 | 295 | 1252 | -0.038817364 | THUMPD2 |
| 11 | 22,125,000 | 22,275,000 | 296 | 1188 | -0.489650851 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 11 | 22,200,000 | 22,350,000 | 297 | 1187 | -0.480889128 | |
| 11 | 22,275,000 | 22,425,000 | 298 | 718 | -0.606256997 | |
| 11 | 22,350,000 | 22,500,000 | 299 | 774 | -1.610805513 | SLC8A1 |
| 11 | 22,425,000 | 22,575,000 | 300 | 784 | -2.020406215 | SLC8A1 |
| 11 | 22,500,000 | 22,650,000 | 301 | 749 | -0.889150193 | SLC8A1 |
| 11 | 22,575,000 | 22,725,000 | 302 | 895 | -2.11359971 | SLC8A1 |
| 11 | 22,650,000 | 22,800,000 | 303 | 627 | -3.578972579 | SLC8A1 |
| 11 | 22,725,000 | 22,875,000 | 304 | 340 | -0.042551387 | SLC8A1 |
| 11 | 22,800,000 | 22,950,000 | 305 | 401 | 0.168548731 | |
| 11 | 22,875,000 | 23,025,000 | 306 | 576 | 0.178393474 | |
| 11 | 22,950,000 | 23,100,000 | 307 | 744 | -0.478342247 | |
| 11 | 23,025,000 | 23,175,000 | 308 | 712 | -0.169992886 | |
| 11 | 23,100,000 | 23,250,000 | 309 | 835 | 0.65384894 | |
| 11 | 23,175,000 | 23,325,000 | 310 | 878 | 0.811077472 | |
| 11 | 23,250,000 | 23,400,000 | 311 | 716 | 1.033944849 | |
| 11 | 23,325,000 | 23,475,000 | 312 | 820 | 0.708386782 | |
| 11 | 23,400,000 | 23,550,000 | 313 | 1228 | 0.309415946 | |
| 11 | 23,475,000 | 23,625,000 | 314 | 1243 | -0.187694184 | |
| 11 | 23,550,000 | 23,700,000 | 315 | 898 | -0.392206124 | |
| 11 | 23,625,000 | 23,775,000 | 316 | 881 | -0.129346596 | |
| 11 | 23,700,000 | 23,850,000 | 317 | 730 | -0.169038658 | |
| 11 | 23,775,000 | 23,925,000 | 318 | 651 | 0.427403413 | |
| 11 | 23,850,000 | 24,000,000 | 319 | 972 | 1.051954958 | |
| 11 | 23,925,000 | 24,075,000 | 320 | 1084 | -0.328702116 | |
| 11 | 24,000,000 | 24,150,000 | 321 | 1277 | -1.127302235 | |
| 11 | 24,075,000 | 24,225,000 | 322 | 1099 | 0.302769648 | |
| 11 | 24,150,000 | 24,300,000 | 323 | 676 | 1.021163314 | |
| 11 | 24,225,000 | 24,375,000 | 324 | 763 | 0.77107841 | |
| 11 | 24,300,000 | 24,450,000 | 325 | 827 | -0.438165919 | |
| 11 | 24,375,000 | 24,525,000 | 326 | 730 | -0.990325277 | |
| 11 | 24,450,000 | 24,600,000 | 327 | 695 | -0.382326165 | PKDCC |
| 11 | 24,525,000 | 24,675,000 | 328 | 597 | 0.131070399 | PKDCC |
| 11 | 24,600,000 | 24,750,000 | 329 | 412 | 0.885204994 | EML4 |
| 11 | 24,675,000 | 24,825,000 | 330 | 481 | 0.741974279 | COX7A2L,EML4 |
| 11 | 24,750,000 | 24,900,000 | 331 | 541 | 0.131335662 | COX7A2L,EML4 |
| 11 | 24,825,000 | 24,975,000 | 332 | 552 | -1.361484186 | COX7A2L,KCNG3 |
| 11 | 24,900,000 | 25,050,000 | 333 | 412 | -2.799453907 | KCNG3,MTA3 |
| 11 | 24,975,000 | 25,125,000 | 334 | 498 | -2.001088783 | MTA3 |
| 11 | 25,050,000 | 25,200,000 | 335 | 553 | -0.673290614 | HAAO,MTA3,OXER1 |
| 11 | 25,125,000 | 25,275,000 | 336 | 359 | -0.76764237 | HAAO,MTA3,OXER1 |
| 11 | 25,200,000 | 25,350,000 | 337 | 418 | -0.772272677 | HAAO,ENSBTAG00000014836 |
| 11 | 25,275,000 | 25,425,000 | 338 | 559 | -1.197178729 | ENSBTAG00000014836 |
| 11 | 25,350,000 | 25,500,000 | 339 | 514 | -1.755795729 | |
| 11 | 25,425,000 | 25,575,000 | 340 | 429 | -3.398480823 | |
| 11 | 25,500,000 | 25,650,000 | 341 | 403 | -2.081183946 | THADA,ZFP36L2 |
| 11 | 25,575,000 | 25,725,000 | 342 | 335 | 0.809388505 | THADA,ZFP36L2 |
| 11 | 25,650,000 | 25,800,000 | 343 | 369 | -0.395042352 | THADA |
| 11 | 25,725,000 | 25,875,000 | 344 | 307 | -1.760001029 | THADA |
| 11 | 25,800,000 | 25,950,000 | 345 | 232 | -3.048612663 | THADA |
| 11 | 25,875,000 | 26,025,000 | 346 | 430 | -2.679420318 | PLEKHH2,THADA |
| 11 | 25,950,000 | 26,100,000 | 347 | 442 | -2.009576062 | DYNC2LI1,PLEKHH2 |
| 11 | 26,025,000 | 26,175,000 | 348 | 576 | 0.394224785 | ABCG5,ABCG8,DYNC2LI1,PLEKHH2 |
| 11 | 26,100,000 | 26,250,000 | 349 | 637 | 0.637331648 | ABCG5,ABCG8,DYNC2LI1,LRPPRC |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 11 | 26,175,000 | 26,325,000 | 350 | 399 | 0.290183587 | LRPPRC |
| 11 | 26,250,000 | 26,400,000 | 351 | 510 | 0.442107549 | LRPPRC |
| 11 | 26,325,000 | 26,475,000 | 352 | 558 | 0.547540732 | PPM1B |
| 11 | 26,400,000 | 26,550,000 | 353 | 495 | 0.05894278 | PPM1B,SLC3A1 |
| 11 | 26,475,000 | 26,625,000 | 354 | 364 | 0.10605207 | CAMKMT,PREPL,SLC3A1 |
| 11 | 26,550,000 | 26,700,000 | 355 | 265 | 0.674430321 | CAMKMT,PREPL,SLC3A1 |
| 11 | 26,625,000 | 26,775,000 | 356 | 660 | 1.140730458 | CAMKMT |
| 11 | 26,700,000 | 26,850,000 | 357 | 1187 | -0.626998828 | CAMKMT |
| 11 | 26,775,000 | 26,925,000 | 358 | 1095 | -1.385628365 | CAMKMT |
| 11 | 26,850,000 | 27,000,000 | 359 | 656 | -0.730405691 | CAMKMT |
| 11 | 26,925,000 | 27,075,000 | 360 | 467 | -0.847682136 | CAMKMT |
| 11 | 27,000,000 | 27,150,000 | 361 | 428 | -0.457245203 | CAMKMT |
| 11 | 27,075,000 | 27,225,000 | 362 | 530 | -0.005986146 | SIX3 |
| 11 | 27,150,000 | 27,300,000 | 363 | 654 | 0.531733406 | SIX2,SIX3 |
| 11 | 27,225,000 | 27,375,000 | 364 | 643 | 0.352361717 | SIX2 |
| 11 | 27,300,000 | 27,450,000 | 365 | 673 | 0.351636165 | |
| 11 | 27,375,000 | 27,525,000 | 366 | 746 | 0.272494068 | |
| 11 | 27,450,000 | 27,600,000 | 367 | 765 | -0.073871535 | |
| 11 | 27,525,000 | 27,675,000 | 368 | 809 | -0.258020668 | SRBD1 |
| 11 | 27,600,000 | 27,750,000 | 369 | 835 | 0.211698653 | SRBD1 |
| 11 | 27,675,000 | 27,825,000 | 370 | 727 | 0.398501109 | SRBD1,ENSBTAG00000032651 |
| 11 | 27,750,000 | 27,900,000 | 371 | 516 | -0.136897789 | SRBD1,ENSBTAG00000032651 |
| 11 | 27,825,000 | 27,975,000 | 372 | 387 | 0.066841002 | PRKCE,SRBD1 |
| 11 | 27,900,000 | 28,050,000 | 373 | 494 | 0.597980852 | PRKCE |
| 11 | 27,975,000 | 28,125,000 | 374 | 839 | -0.176321351 | PRKCE |
| 11 | 28,050,000 | 28,200,000 | 375 | 836 | -0.345204519 | PRKCE |
| 11 | 28,125,000 | 28,275,000 | 376 | 523 | -0.975674431 | PRKCE |
| 11 | 28,200,000 | 28,350,000 | 377 | 382 | -0.997601662 | PRKCE |
| 11 | 28,275,000 | 28,425,000 | 378 | 338 | 0.991079005 | PRKCE |
| 11 | 28,350,000 | 28,500,000 | 379 | 424 | 1.047969337 | PRKCE |
| 11 | 28,425,000 | 28,575,000 | 380 | 402 | -0.532297217 | PRKCE |
| 11 | 28,500,000 | 28,650,000 | 381 | 473 | -0.719094298 | EPAS1 |
| 11 | 28,575,000 | 28,725,000 | 382 | 683 | 0.394585594 | EPAS1 |
| 11 | 28,650,000 | 28,800,000 | 383 | 860 | 0.616308424 | EPAS1,TMEM247 |
| 11 | 28,725,000 | 28,875,000 | 384 | 935 | 0.794926151 | ATP6V1E2,PIGF,RHOQ,TMEM247 |
| 11 | 28,800,000 | 28,950,000 | 385 | 929 | 0.854316227 | ATP6V1E2,CRIPT,PIGF,RHOQ |
| 11 | 28,875,000 | 29,025,000 | 386 | 723 | 0.686652583 | CRIPT,PIGF,SOCS5 |
| 11 | 28,950,000 | 29,100,000 | 387 | 459 | 0.674167175 | SOCS5 |
| 11 | 29,025,000 | 29,175,000 | 388 | 444 | 0.668270995 | SOCS5 |
| 11 | 29,100,000 | 29,250,000 | 389 | 787 | -0.158216138 | MCFD2,TTC7A |
| 11 | 29,175,000 | 29,325,000 | 390 | 806 | -0.299752548 | MCFD2,TTC7A |
| 11 | 29,250,000 | 29,400,000 | 391 | 675 | 0.353683596 | TTC7A |
| 11 | 29,325,000 | 29,475,000 | 392 | 842 | -0.571520868 | TTC7A,ENSBTAG00000001575 |
| 11 | 29,400,000 | 29,550,000 | 393 | 685 | -2.60307384 | ENSBTAG00000001575 |
| 11 | 29,475,000 | 29,625,000 | 394 | 661 | -3.008914018 | |
| 11 | 29,550,000 | 29,700,000 | 395 | 915 | -2.101569105 | EPCAM,MSH2 |
| 11 | 29,625,000 | 29,775,000 | 396 | 1095 | -0.884325143 | EPCAM,KCNK12,MSH2 |
| 11 | 29,700,000 | 29,850,000 | 397 | 792 | 0.376506595 | KCNK12,MSH2 |
| 11 | 29,775,000 | 29,925,000 | 398 | 544 | 1.000419222 | KCNK12 |
| 11 | 29,850,000 | 30,000,000 | 399 | 439 | 0.734972697 | FBXO11,MSH6 |
| 11 | 29,925,000 | 30,075,000 | 400 | 238 | 0.868518816 | FBXO11,MSH6 |
| 11 | 30,000,000 | 30,150,000 | 401 | 309 | 0.079434868 | FBXO11 |
| 11 | 30,075,000 | 30,225,000 | 402 | 658 | -0.821648496 | FBXO11 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 30,150,000 | 30,300,000 | 403 | 951 | -0.49901781 | |
| 11 | 30,225,000 | 30,375,000 | 404 | 686 | 0.369323151 | |
| 11 | 30,300,000 | 30,450,000 | 405 | 489 | 0.843812266 | |
| 11 | 30,375,000 | 30,525,000 | 406 | 397 | 0.642440952 | |
| 11 | 30,450,000 | 30,600,000 | 407 | 233 | -0.362882188 | FOXN2,KLRAQ1 |
| 11 | 30,525,000 | 30,675,000 | 408 | 413 | -0.663391829 | FOXN2,KLRAQ1 |
| 11 | 30,600,000 | 30,750,000 | 409 | 704 | -0.625437022 | KLRAQ1,ENSBTAG00000004168 |
| 11 | 30,675,000 | 30,825,000 | 410 | 633 | 0.069866672 | LHCGR,ENSBTAG00000004168,ENSBTAG00000023999 |
| 11 | 30,750,000 | 30,900,000 | 411 | 415 | 0.298090404 | LHCGR,ENSBTAG00000023999 |
| 11 | 30,825,000 | 30,975,000 | 412 | 580 | 0.031232402 | LHCGR,ENSBTAG00000027015 |
| 11 | 30,900,000 | 31,050,000 | 413 | 827 | 0.460358885 | ENSBTAG00000027015 |
| 11 | 30,975,000 | 31,125,000 | 414 | 808 | 0.983574764 | FSHR |
| 11 | 31,050,000 | 31,200,000 | 415 | 1083 | 0.636561824 | FSHR |
| 11 | 31,125,000 | 31,275,000 | 416 | 1030 | 0.201325807 | FSHR |
| 11 | 31,200,000 | 31,350,000 | 417 | 635 | -0.431214595 | FSHR |
| 11 | 31,275,000 | 31,425,000 | 418 | 477 | -0.855323823 | FSHR |
| 11 | 31,350,000 | 31,500,000 | 419 | 525 | -2.380882821 | |
| 11 | 31,425,000 | 31,575,000 | 420 | 857 | -1.183286221 | |
| 11 | 31,500,000 | 31,650,000 | 421 | 774 | -0.03130562 | |
| 11 | 31,575,000 | 31,725,000 | 422 | 674 | 0.002769858 | |
| 11 | 31,650,000 | 31,800,000 | 423 | 575 | 0.00435249 | |
| 11 | 31,725,000 | 31,875,000 | 424 | 492 | -0.302751357 | |
| 11 | 31,800,000 | 31,950,000 | 425 | 581 | -0.87256032 | |
| 11 | 31,875,000 | 32,025,000 | 426 | 889 | 0.395688009 | |
| 11 | 31,950,000 | 32,100,000 | 427 | 1279 | 0.750585235 | |
| 11 | 32,025,000 | 32,175,000 | 428 | 1142 | 0.422792204 | ENSBTAG00000046199 |
| 11 | 32,100,000 | 32,250,000 | 429 | 1157 | 0.504415399 | ENSBTAG00000046199 |
| 11 | 32,175,000 | 32,325,000 | 430 | 1103 | 1.181968418 | ENSBTAG00000046199 |
| 11 | 32,250,000 | 32,400,000 | 431 | 796 | 0.953879409 | ENSBTAG00000046199 |
| 11 | 32,325,000 | 32,475,000 | 432 | 699 | 0.022044995 | ENSBTAG00000046199 |
| 11 | 32,400,000 | 32,550,000 | 433 | 740 | 0.067884875 | ENSBTAG00000046199 |
| 11 | 32,475,000 | 32,625,000 | 434 | 825 | 0.634562776 | ENSBTAG00000046199 |
| 11 | 32,550,000 | 32,700,000 | 435 | 890 | 0.803597304 | |
| 11 | 32,625,000 | 32,775,000 | 436 | 864 | 0.993735292 | ENSBTAG00000024021 |
| 11 | 32,700,000 | 32,850,000 | 437 | 843 | 0.25307848 | ENSBTAG00000024021 |
| 11 | 32,775,000 | 32,925,000 | 438 | 715 | -0.446811519 | ENSBTAG00000024021 |
| 11 | 32,850,000 | 33,000,000 | 439 | 578 | 0.093898054 | ENSBTAG00000024021 |
| 11 | 32,925,000 | 33,075,000 | 440 | 610 | 0.82808321 | |
| 11 | 33,000,000 | 33,150,000 | 441 | 586 | 1.20038911 | |
| 11 | 33,075,000 | 33,225,000 | 442 | 489 | 1.119096867 | |
| 11 | 33,150,000 | 33,300,000 | 443 | 411 | 0.373968769 | |
| 11 | 33,225,000 | 33,375,000 | 444 | 454 | 0.004093333 | ENSBTAG00000014072 |
| 11 | 33,300,000 | 33,450,000 | 445 | 426 | 0.502863841 | ENSBTAG00000014072 |
| 11 | 33,375,000 | 33,525,000 | 446 | 680 | 1.075814656 | |
| 11 | 33,450,000 | 33,600,000 | 447 | 1038 | 0.975455217 | |
| 11 | 33,525,000 | 33,675,000 | 448 | 1233 | 0.958435207 | |
| 11 | 33,600,000 | 33,750,000 | 449 | 919 | 0.80822785 | |
| 11 | 33,675,000 | 33,825,000 | 450 | 771 | 0.361417479 | |
| 11 | 33,750,000 | 33,900,000 | 451 | 1369 | 0.301764973 | |
| 11 | 33,825,000 | 33,975,000 | 452 | 1223 | -0.364747612 | |
| 11 | 33,900,000 | 34,050,000 | 453 | 769 | -1.783422137 | |
| 11 | 33,975,000 | 34,125,000 | 454 | 861 | -1.166480849 | |
| 11 | 34,050,000 | 34,200,000 | 455 | 754 | 0.293010673 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 34,125,000 | 34,275,000 | 456 | 795 | 0.927330859 | |
| 11 | 34,200,000 | 34,350,000 | 457 | 925 | 0.736174004 | |
| 11 | 34,275,000 | 34,425,000 | 458 | 556 | 0.418034288 | |
| 11 | 34,350,000 | 34,500,000 | 459 | 438 | 0.85196229 | |
| 11 | 34,425,000 | 34,575,000 | 460 | 996 | 1.165371499 | |
| 11 | 34,500,000 | 34,650,000 | 461 | 1144 | 0.63906556 | |
| 11 | 34,575,000 | 34,725,000 | 462 | 731 | -0.378560486 | |
| 11 | 34,650,000 | 34,800,000 | 463 | 868 | -0.910639038 | |
| 11 | 34,725,000 | 34,875,000 | 464 | 1408 | -2.865045284 | |
| 11 | 34,800,000 | 34,950,000 | 465 | 1502 | -2.585225806 | |
| 11 | 34,875,000 | 35,025,000 | 466 | 1486 | 0.152726775 | |
| 11 | 34,950,000 | 35,100,000 | 467 | 1688 | 0.099264349 | |
| 11 | 35,025,000 | 35,175,000 | 468 | 1733 | -0.217403628 | |
| 11 | 35,100,000 | 35,250,000 | 469 | 1321 | -0.136761763 | |
| 11 | 35,175,000 | 35,325,000 | 470 | 1034 | 0.22219222 | |
| 11 | 35,250,000 | 35,400,000 | 471 | 1000 | 0.640209185 | |
| 11 | 35,325,000 | 35,475,000 | 472 | 757 | -0.306389977 | |
| 11 | 35,400,000 | 35,550,000 | 473 | 823 | -0.387352315 | |
| 11 | 35,475,000 | 35,625,000 | 474 | 992 | 0.95075698 | |
| 11 | 35,550,000 | 35,700,000 | 475 | 1251 | 0.778883408 | |
| 11 | 35,625,000 | 35,775,000 | 476 | 1335 | 0.546603173 | |
| 11 | 35,700,000 | 35,850,000 | 477 | 1163 | -1.125311831 | |
| 11 | 35,775,000 | 35,925,000 | 478 | 1300 | -3.701874714 | |
| 11 | 35,850,000 | 36,000,000 | 479 | 1033 | -3.014557897 | |
| 11 | 35,925,000 | 36,075,000 | 480 | 659 | -0.457540369 | ENSBTAG00000002943 |
| 11 | 36,000,000 | 36,150,000 | 481 | 670 | -0.816678169 | ENSBTAG00000002943 |
| 11 | 36,075,000 | 36,225,000 | 482 | 498 | -0.192311219 | |
| 11 | 36,150,000 | 36,300,000 | 483 | 634 | -0.268356413 | ENSBTAG00000019458 |
| 11 | 36,225,000 | 36,375,000 | 484 | 739 | -0.740944084 | CHAC2,ERLEC1,ENSBTAG00000019458 |
| 11 | 36,300,000 | 36,450,000 | 485 | 633 | -0.138892698 | CHAC2,ERLEC1,GPR75,PSME4,ENSBTAG00000019458 |
| 11 | 36,375,000 | 36,525,000 | 486 | 498 | 0.499774995 | ERLEC1,GPR75,PSME4 |
| 11 | 36,450,000 | 36,600,000 | 487 | 512 | 0.825948567 | PSME4,ENSBTAG00000024019 |
| 11 | 36,525,000 | 36,675,000 | 488 | 590 | 0.478167999 | ENSBTAG00000024019 |
| 11 | 36,600,000 | 36,750,000 | 489 | 478 | -0.096588514 | ACYP2 |
| 11 | 36,675,000 | 36,825,000 | 490 | 624 | 0.434260588 | ACYP2,TSPYL6 |
| 11 | 36,750,000 | 36,900,000 | 491 | 719 | 0.939477208 | ACYP2,C2orf73,TSPYL6 |
| 11 | 36,825,000 | 36,975,000 | 492 | 686 | 1.159901913 | ACYP2,C2orf73 |
| 11 | 36,900,000 | 37,050,000 | 493 | 657 | 0.678377627 | C2orf73,SPTBN1 |
| 11 | 36,975,000 | 37,125,000 | 494 | 610 | 0.199951524 | SPTBN1 |
| 11 | 37,050,000 | 37,200,000 | 495 | 621 | 0.312191517 | SPTBN1 |
| 11 | 37,125,000 | 37,275,000 | 496 | 609 | -0.401373772 | SPTBN1 |
| 11 | 37,200,000 | 37,350,000 | 497 | 538 | -1.103295549 | EML6,SPTBN1 |
| 11 | 37,275,000 | 37,425,000 | 498 | 609 | -1.901685231 | EML6 |
| 11 | 37,350,000 | 37,500,000 | 499 | 722 | -1.297569693 | EML6 |
| 11 | 37,425,000 | 37,575,000 | 500 | 923 | 0.307486951 | EML6 |
| 11 | 37,500,000 | 37,650,000 | 501 | 1072 | 0.283779402 | EML6,RTN4 |
| 11 | 37,575,000 | 37,725,000 | 502 | 1069 | 0.229844403 | RTN4 |
| 11 | 37,650,000 | 37,800,000 | 503 | 1147 | 0.666749327 | MGC139228 |
| 11 | 37,725,000 | 37,875,000 | 504 | 923 | 0.756885289 | CCDC88A,MGC139228,MTIF2,PRORS1,RPS27A |
| 11 | 37,800,000 | 37,950,000 | 505 | 549 | 1.122627065 | CCDC88A,MGC139228,MTIF2,PRORS1,RPS27A |
| 11 | 37,875,000 | 38,025,000 | 506 | 463 | 0.653416847 | CCDC88A |
| 11 | 37,950,000 | 38,100,000 | 507 | 411 | 0.044321046 | CCDC104,CCDC88A,SMEK2 |
| 11 | 38,025,000 | 38,175,000 | 508 | 275 | -0.15394685 | CCDC104,PNPT1,SMEK2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------|
| 11 | 38,100,000 | 38,250,000 | 509 | 262 | 0.081573823 | PNPT1,SMEK2 |
| 11 | 38,175,000 | 38,325,000 | 510 | 291 | 0.390437209 | PNPT1 |
| 11 | 38,250,000 | 38,400,000 | 511 | 309 | 0.739751423 | EFEMP1 |
| 11 | 38,325,000 | 38,475,000 | 512 | 480 | 0.533745845 | EFEMP1 |
| 11 | 38,400,000 | 38,550,000 | 513 | 823 | 0.340034289 | EFEMP1 |
| 11 | 38,475,000 | 38,625,000 | 514 | 1214 | 0.745377408 | |
| 11 | 38,550,000 | 38,700,000 | 515 | 1212 | 0.312518532 | |
| 11 | 38,625,000 | 38,775,000 | 516 | 1073 | -0.164553146 | CCDC85A |
| 11 | 38,700,000 | 38,850,000 | 517 | 1137 | -1.102993346 | CCDC85A |
| 11 | 38,775,000 | 38,925,000 | 518 | 1194 | -0.672236654 | CCDC85A |
| 11 | 38,850,000 | 39,000,000 | 519 | 1135 | 0.768764322 | CCDC85A |
| 11 | 38,925,000 | 39,075,000 | 520 | 838 | 0.806105824 | CCDC85A |
| 11 | 39,000,000 | 39,150,000 | 521 | 722 | 0.822963031 | |
| 11 | 39,075,000 | 39,225,000 | 522 | 1180 | 1.090084973 | |
| 11 | 39,150,000 | 39,300,000 | 523 | 1113 | 0.102627307 | |
| 11 | 39,225,000 | 39,375,000 | 524 | 631 | -1.589249203 | |
| 11 | 39,300,000 | 39,450,000 | 525 | 817 | 0.222556955 | |
| 11 | 39,375,000 | 39,525,000 | 526 | 881 | 0.906176975 | |
| 11 | 39,450,000 | 39,600,000 | 527 | 687 | 1.193747391 | |
| 11 | 39,525,000 | 39,675,000 | 528 | 639 | 0.058298519 | |
| 11 | 39,600,000 | 39,750,000 | 529 | 478 | -1.646503929 | |
| 11 | 39,675,000 | 39,825,000 | 530 | 419 | -0.893215382 | |
| 11 | 39,750,000 | 39,900,000 | 531 | 750 | 0.726702922 | |
| 11 | 39,825,000 | 39,975,000 | 532 | 856 | 0.741832304 | |
| 11 | 39,900,000 | 40,050,000 | 533 | 623 | 0.772928015 | |
| 11 | 39,975,000 | 40,125,000 | 534 | 623 | 0.309478571 | |
| 11 | 40,050,000 | 40,200,000 | 535 | 1020 | 0.238308904 | |
| 11 | 40,125,000 | 40,275,000 | 536 | 1156 | 0.281252612 | |
| 11 | 40,200,000 | 40,350,000 | 537 | 1028 | 0.268167626 | |
| 11 | 40,275,000 | 40,425,000 | 538 | 1019 | 0.860003409 | |
| 11 | 40,350,000 | 40,500,000 | 539 | 996 | 0.551998136 | |
| 11 | 40,425,000 | 40,575,000 | 540 | 1137 | -0.429258937 | VRK2 |
| 11 | 40,500,000 | 40,650,000 | 541 | 839 | -0.012119275 | VRK2 |
| 11 | 40,575,000 | 40,725,000 | 542 | 417 | 0.865507924 | FANCL,VRK2 |
| 11 | 40,650,000 | 40,800,000 | 543 | 844 | 1.122739106 | FANCL,VRK2 |
| 11 | 40,725,000 | 40,875,000 | 544 | 999 | 0.838665281 | FANCL |
| 11 | 40,800,000 | 40,950,000 | 545 | 689 | 0.031074366 | |
| 11 | 40,875,000 | 41,025,000 | 546 | 500 | 0.549411107 | |
| 11 | 40,950,000 | 41,100,000 | 547 | 321 | 0.094158918 | |
| 11 | 41,025,000 | 41,175,000 | 548 | 305 | 0.561596218 | |
| 11 | 41,100,000 | 41,250,000 | 549 | 470 | 0.544052486 | |
| 11 | 41,175,000 | 41,325,000 | 550 | 679 | 0.301541079 | |
| 11 | 41,250,000 | 41,400,000 | 551 | 707 | -0.130115563 | |
| 11 | 41,325,000 | 41,475,000 | 552 | 543 | -0.658910424 | |
| 11 | 41,400,000 | 41,550,000 | 553 | 509 | -0.331057189 | |
| 11 | 41,475,000 | 41,625,000 | 554 | 596 | 0.464950611 | |
| 11 | 41,550,000 | 41,700,000 | 555 | 768 | 0.328531437 | |
| 11 | 41,625,000 | 41,775,000 | 556 | 1162 | -0.138957649 | |
| 11 | 41,700,000 | 41,850,000 | 557 | 1288 | -0.569974852 | |
| 11 | 41,775,000 | 41,925,000 | 558 | 1305 | -0.12659646 | |
| 11 | 41,850,000 | 42,000,000 | 559 | 1569 | 0.435133843 | |
| 11 | 41,925,000 | 42,075,000 | 560 | 1646 | 0.235589382 | |
| 11 | 42,000,000 | 42,150,000 | 561 | 1006 | -0.174108705 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 42,075,000 | 42,225,000 | 562 | 777 | 0.141936084 | |
| 11 | 42,150,000 | 42,300,000 | 563 | 961 | 0.474009028 | |
| 11 | 42,225,000 | 42,375,000 | 564 | 707 | 0.049187164 | |
| 11 | 42,300,000 | 42,450,000 | 565 | 557 | -0.198525413 | |
| 11 | 42,375,000 | 42,525,000 | 566 | 533 | -0.2893161 | |
| 11 | 42,450,000 | 42,600,000 | 567 | 673 | -0.408553729 | |
| 11 | 42,525,000 | 42,675,000 | 568 | 829 | 0.44171847 | |
| 11 | 42,600,000 | 42,750,000 | 569 | 646 | 0.582752827 | |
| 11 | 42,675,000 | 42,825,000 | 570 | 626 | -0.42059989 | |
| 11 | 42,750,000 | 42,900,000 | 571 | 807 | 0.343267393 | |
| 11 | 42,825,000 | 42,975,000 | 572 | 626 | 0.681639562 | |
| 11 | 42,900,000 | 43,050,000 | 573 | 662 | -0.570086651 | |
| 11 | 42,975,000 | 43,125,000 | 574 | 736 | -0.237630634 | BCL11A |
| 11 | 43,050,000 | 43,200,000 | 575 | 409 | 0.53470058 | BCL11A |
| 11 | 43,125,000 | 43,275,000 | 576 | 414 | 0.686660737 | BCL11A |
| 11 | 43,200,000 | 43,350,000 | 577 | 730 | -0.039427906 | |
| 11 | 43,275,000 | 43,425,000 | 578 | 631 | -0.75782085 | PAPOLG |
| 11 | 43,350,000 | 43,500,000 | 579 | 406 | -0.913992079 | PAPOLG |
| 11 | 43,425,000 | 43,575,000 | 580 | 304 | -0.121696655 | PUS10,REL |
| 11 | 43,500,000 | 43,650,000 | 581 | 240 | 0.565841544 | PEX13,PUS10,REL |
| 11 | 43,575,000 | 43,725,000 | 582 | 362 | 0.8411579 | PEX13,PUS10 |
| 11 | 43,650,000 | 43,800,000 | 583 | 878 | 1.135387726 | GCFC2 |
| 11 | 43,725,000 | 43,875,000 | 584 | 1064 | 1.088099048 | GCFC2 |
| 11 | 43,800,000 | 43,950,000 | 585 | 1200 | 0.96095601 | GCFC2,MRPL19,ENSBTAG00000018554 |
| 11 | 43,875,000 | 44,025,000 | 586 | 1337 | 0.623547835 | MRPL19,ENSBTAG00000018554 |
| 11 | 43,950,000 | 44,100,000 | 587 | 1260 | 0.023157657 | |
| 11 | 44,025,000 | 44,175,000 | 588 | 1171 | 0.271734753 | |
| 11 | 44,100,000 | 44,250,000 | 589 | 807 | 0.731553085 | SEPT10,SH3RF3 |
| 11 | 44,175,000 | 44,325,000 | 590 | 934 | 0.927039158 | SEPT10,SH3RF3 |
| 11 | 44,250,000 | 44,400,000 | 591 | 694 | 0.626507812 | SH3RF3 |
| 11 | 44,325,000 | 44,475,000 | 592 | 320 | -0.618926703 | EDAR,SH3RF3 |
| 11 | 44,400,000 | 44,550,000 | 593 | 359 | 0.056359417 | CCDC138,EDAR,RANBP2 |
| 11 | 44,475,000 | 44,625,000 | 594 | 339 | -0.367705208 | CCDC138,MGC142792,RANBP2 |
| 11 | 44,550,000 | 44,700,000 | 595 | 341 | 0.25114946 | GCC2,MGC142792,RANBP2 |
| 11 | 44,625,000 | 44,775,000 | 596 | 573 | -0.813780775 | GCC2,MGC142792,SULT1C2,SULT1C3,ENSBTAG00000016032,ENSBTAG00000032051 |
| 11 | 44,700,000 | 44,850,000 | 597 | 811 | -2.256816895 | GCC2,SULT1C2,SULT1C3,ENSBTAG00000016032,ENSBTAG00000032051 |
| 11 | 44,775,000 | 44,925,000 | 598 | 706 | -2.261173728 | SLC5A7,SULT1C3 |
| 11 | 44,850,000 | 45,000,000 | 599 | 849 | -0.710941167 | SLC5A7 |
| 11 | 44,925,000 | 45,075,000 | 600 | 996 | -1.833477316 | |
| 11 | 45,000,000 | 45,150,000 | 601 | 1300 | -1.510151399 | |
| 11 | 45,075,000 | 45,225,000 | 602 | 1475 | -0.716543718 | |
| 11 | 45,150,000 | 45,300,000 | 603 | 1322 | 0.171621841 | |
| 11 | 45,225,000 | 45,375,000 | 604 | 1207 | 0.883820912 | |
| 11 | 45,300,000 | 45,450,000 | 605 | 1114 | 1.177931982 | ST6GAL2 |
| 11 | 45,375,000 | 45,525,000 | 606 | 1012 | 1.150417326 | ST6GAL2 |
| 11 | 45,450,000 | 45,600,000 | 607 | 556 | 1.062448532 | ST6GAL2,UXS1 |
| 11 | 45,525,000 | 45,675,000 | 608 | 333 | 0.989830009 | UXS1 |
| 11 | 45,600,000 | 45,750,000 | 609 | 701 | 0.623318494 | C11H2orf40,UXS1 |
| 11 | 45,675,000 | 45,825,000 | 610 | 1041 | 0.485004922 | C11H2orf40,NCK2 |
| 11 | 45,750,000 | 45,900,000 | 611 | 958 | 0.089465565 | NCK2 |
| 11 | 45,825,000 | 45,975,000 | 612 | 807 | -0.959187078 | NCK2 |

10-Sep

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 45,900,000 | 46,050,000 | 613 | 974 | -0.624145637 | |
| 11 | 45,975,000 | 46,125,000 | 614 | 1017 | -0.238703895 | POLR1B,TTL |
| 11 | 46,050,000 | 46,200,000 | 615 | 993 | 0.178106441 | POLR1B,TTL |
| 11 | 46,125,000 | 46,275,000 | 616 | 754 | 0.390578988 | POLR1B,SLC20A1 |
| 11 | 46,200,000 | 46,350,000 | 617 | 685 | 0.530390924 | CKAP2L,IL1A,NT5DC4,SLC20A1 |
| 11 | 46,275,000 | 46,425,000 | 618 | 760 | 0.797300896 | CKAP2L,IL1A,IL1B,NT5DC4 |
| 11 | 46,350,000 | 46,500,000 | 619 | 716 | 0.487245184 | IL1A,IL1B,IL37 |
| 11 | 46,425,000 | 46,575,000 | 620 | 1145 | -0.165971568 | IL36A,IL36G,IL37,ENSBTAG00000039476 |
| 11 | 46,500,000 | 46,650,000 | 621 | 1144 | -0.323524775 | IL1F10,IL36A,IL36B,IL36G,IL36RN,ENSBTAG00000039476 |
| 11 | 46,575,000 | 46,725,000 | 622 | 908 | -0.357294581 | IL1F10,IL1RN,IL36B,IL36RN |
| 11 | 46,650,000 | 46,800,000 | 623 | 1134 | 0.324391908 | IL1RN,PAX8,PSD4 |
| 11 | 46,725,000 | 46,875,000 | 624 | 1027 | 0.286772766 | PAX8,PSD4 |
| 11 | 46,800,000 | 46,950,000 | 625 | 720 | -1.324538633 | PAX8 |
| 11 | 46,875,000 | 47,025,000 | 626 | 859 | -0.420604708 | ENSBTAG00000047185 |
| 11 | 46,950,000 | 47,100,000 | 627 | 1508 | 0.7625318 | ENSBTAG00000047029,ENSBTAG00000047185 |
| 11 | 47,025,000 | 47,175,000 | 628 | 1694 | 0.667474721 | ENSBTAG00000003408,ENSBTAG00000045514,ENSBTAG0000045659,ENSBTAG00000047029 |
| 11 | 47,100,000 | 47,250,000 | 629 | 1013 | 0.590087384 | RPIA,ENSBTAG00000003408,ENSBTAG00000045514,ENSBTAG00000045659 |
| 11 | 47,175,000 | 47,325,000 | 630 | 808 | 0.524717096 | EIF2AK3,RPIA |
| 11 | 47,250,000 | 47,400,000 | 631 | 1121 | -0.570902863 | EIF2AK3,RPIA |
| 11 | 47,325,000 | 47,475,000 | 632 | 1258 | -2.926407294 | EIF2AK3,TEX37 |
| 11 | 47,400,000 | 47,550,000 | 633 | 1118 | -2.107926916 | FOXI3,TEX37 |
| 11 | 47,475,000 | 47,625,000 | 634 | 833 | 0.687218209 | FOXI3 |
| 11 | 47,550,000 | 47,700,000 | 635 | 839 | 0.600333811 | |
| 11 | 47,625,000 | 47,775,000 | 636 | 1291 | -0.049719136 | THNSL2 |
| 11 | 47,700,000 | 47,850,000 | 637 | 1420 | -0.888933054 | FABP1,SMYD1,THNSL2 |
| 11 | 47,775,000 | 47,925,000 | 638 | 994 | -0.855042577 | CD8B,FABP1,KRCC1,SMYD1,ENSBTAG00000002545 |
| 11 | 47,850,000 | 48,000,000 | 639 | 804 | -0.06839789 | CD8A,CD8B,KRCC1,ENSBTAG00000002545 |
| 11 | 47,925,000 | 48,075,000 | 640 | 906 | -0.05849401 | CD8A,CD8B,RMND5A |
| 11 | 48,000,000 | 48,150,000 | 641 | 882 | 0.411179776 | RMND5A,RNF103 |
| 11 | 48,075,000 | 48,225,000 | 642 | 723 | 0.688917912 | CHMP3,RNF103 |
| 11 | 48,150,000 | 48,300,000 | 643 | 606 | 0.859578175 | CHMP3,KDM3A,RNF103 |
| 11 | 48,225,000 | 48,375,000 | 644 | 795 | 0.284727849 | CHMP3,KDM3A |
| 11 | 48,300,000 | 48,450,000 | 645 | 1240 | -0.167717084 | KDM3A,REEP1 |
| 11 | 48,375,000 | 48,525,000 | 646 | 1466 | -0.179115226 | REEP1 |
| 11 | 48,450,000 | 48,600,000 | 647 | 1116 | 0.310779576 | IMMT,MRPL35,PTCD3,REEP1 |
| 11 | 48,525,000 | 48,675,000 | 648 | 784 | 0.836266894 | IMMT,MRPL35,POLR1A,PTCD3,REEP1 |
| 11 | 48,600,000 | 48,750,000 | 649 | 991 | -0.326373858 | POLR1A,PTCD3 |
| 11 | 48,675,000 | 48,825,000 | 650 | 1183 | -0.69797553 | POLR1A |
| 11 | 48,750,000 | 48,900,000 | 651 | 908 | -0.187865849 | ST3GAL5 |
| 11 | 48,825,000 | 48,975,000 | 652 | 617 | -0.050308121 | ATOH8,ST3GAL5 |
| 11 | 48,900,000 | 49,050,000 | 653 | 517 | -1.438255317 | ATOH8,ST3GAL5 |
| 11 | 48,975,000 | 49,125,000 | 654 | 1305 | 0.151398276 | ATOH8,ENSBTAG00000047449,ENSBTAG00000047816 |
| 11 | 49,050,000 | 49,200,000 | 655 | 1578 | 0.558903598 | SFTPB,USP39,ENSBTAG00000031828,ENSBTAG00000047449,ENSBTAG00000047816 |
| 11 | 49,125,000 | 49,275,000 | 656 | 971 | 1.209768594 | C2orf68,RNF181,SFTPB,TMEM150A,USP39,VAMP5,VAMP8,ENSBTAG00000031828 |
| 11 | 49,200,000 | 49,350,000 | 657 | 675 | 1.019689834 | C2orf68,GGCX,MAT2A,RNF181,TMEM150A,USP39,VAMP5,VAMP8 |
| 11 | 49,275,000 | 49,425,000 | 658 | 426 | 0.235849469 | CAPG,GGCX,MAT2A,SH2D6 |
| 11 | 49,350,000 | 49,500,000 | 659 | 518 | 0.540446804 | CAPG,ELMOD3,RETSAT,SH2D6,TGOLN2 |
| 11 | 49,425,000 | 49,575,000 | 660 | 458 | 0.038219958 | CAPG,ELMOD3,RETSAT,TGOLN2,ENSBTAG00000010111 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 11 | 49,500,000 | 49,650,000 | 661 | 347 | -1.503102471 | ENSBTAG00000010111 |
| 11 | 49,575,000 | 49,725,000 | 662 | 669 | -1.069417905 | ENSBTAG00000047475 |
| 11 | 49,650,000 | 49,800,000 | 663 | 896 | -0.322371922 | HIGD1D,KCMF1,ENSBTAG00000047475 |
| 11 | 49,725,000 | 49,875,000 | 664 | 645 | -0.000306187 | HIGD1D,KCMF1 |
| 11 | 49,800,000 | 49,950,000 | 665 | 580 | -0.216578617 | KCMF1,TMSB10 |
| 11 | 49,875,000 | 50,025,000 | 666 | 782 | 0.095435131 | TMSB10 |
| 11 | 49,950,000 | 50,100,000 | 667 | 1042 | -3.046423544 | |
| 11 | 50,025,000 | 50,175,000 | 668 | 1050 | -4.223336264 | |
| 11 | 50,100,000 | 50,250,000 | 669 | 1151 | -1.764920708 | |
| 11 | 50,175,000 | 50,325,000 | 670 | 1130 | -0.376268778 | |
| 11 | 50,250,000 | 50,400,000 | 671 | 783 | 0.89495898 | |
| 11 | 50,325,000 | 50,475,000 | 672 | 720 | 0.918615189 | SUCLG1 |
| 11 | 50,400,000 | 50,550,000 | 673 | 682 | 0.965761408 | SUCLG1 |
| 11 | 50,475,000 | 50,625,000 | 674 | 746 | 0.867934014 | |
| 11 | 50,550,000 | 50,700,000 | 675 | 583 | 0.549580244 | |
| 11 | 50,625,000 | 50,775,000 | 676 | 311 | 0.729260812 | |
| 11 | 50,700,000 | 50,850,000 | 677 | 346 | 0.567649957 | |
| 11 | 50,775,000 | 50,925,000 | 678 | 753 | 0.235133214 | |
| 11 | 50,850,000 | 51,000,000 | 679 | 1126 | -0.13231405 | |
| 11 | 50,925,000 | 51,075,000 | 680 | 940 | -0.24797273 | |
| 11 | 51,000,000 | 51,150,000 | 681 | 1006 | 0.36033058 | |
| 11 | 51,075,000 | 51,225,000 | 682 | 1348 | -0.237367739 | |
| 11 | 51,150,000 | 51,300,000 | 683 | 1062 | -0.921245394 | |
| 11 | 51,225,000 | 51,375,000 | 684 | 1026 | -1.971255266 | |
| 11 | 51,300,000 | 51,450,000 | 685 | 1279 | -0.937711802 | |
| 11 | 51,375,000 | 51,525,000 | 686 | 1273 | -0.083826982 | |
| 11 | 51,450,000 | 51,600,000 | 687 | 1172 | -0.884083635 | |
| 11 | 51,525,000 | 51,675,000 | 688 | 1013 | -0.419295023 | |
| 11 | 51,600,000 | 51,750,000 | 689 | 1259 | -0.454909269 | |
| 11 | 51,675,000 | 51,825,000 | 690 | 1370 | -0.240104396 | |
| 11 | 51,750,000 | 51,900,000 | 691 | 1074 | 0.188134554 | |
| 11 | 51,825,000 | 51,975,000 | 692 | 1055 | -0.829904793 | |
| 11 | 51,900,000 | 52,050,000 | 693 | 899 | -1.538795954 | |
| 11 | 51,975,000 | 52,125,000 | 694 | 572 | -1.428971709 | |
| 11 | 52,050,000 | 52,200,000 | 695 | 649 | 0.154305649 | |
| 11 | 52,125,000 | 52,275,000 | 696 | 949 | 0.989127336 | |
| 11 | 52,200,000 | 52,350,000 | 697 | 1001 | 1.100259793 | |
| 11 | 52,275,000 | 52,425,000 | 698 | 624 | 0.858827009 | |
| 11 | 52,350,000 | 52,500,000 | 699 | 426 | 0.253441618 | |
| 11 | 52,425,000 | 52,575,000 | 700 | 527 | 0.334342603 | |
| 11 | 52,500,000 | 52,650,000 | 701 | 786 | -0.056243354 | |
| 11 | 52,575,000 | 52,725,000 | 702 | 1019 | -1.717407263 | |
| 11 | 52,650,000 | 52,800,000 | 703 | 925 | -2.384704277 | |
| 11 | 52,725,000 | 52,875,000 | 704 | 762 | -0.492300026 | |
| 11 | 52,800,000 | 52,950,000 | 705 | 803 | -0.335438898 | |
| 11 | 52,875,000 | 53,025,000 | 706 | 1016 | 0.463577366 | |
| 11 | 52,950,000 | 53,100,000 | 707 | 1452 | 1.084789886 | |
| 11 | 53,025,000 | 53,175,000 | 708 | 1712 | 1.031559611 | |
| 11 | 53,100,000 | 53,250,000 | 709 | 1625 | 0.431154685 | |
| 11 | 53,175,000 | 53,325,000 | 710 | 1277 | -0.381648598 | |
| 11 | 53,250,000 | 53,400,000 | 711 | 1058 | 0.262493878 | |
| 11 | 53,325,000 | 53,475,000 | 712 | 1073 | 0.788484749 | |
| 11 | 53,400,000 | 53,550,000 | 713 | 1245 | 0.887458493 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 11 | 53,475,000 | 53,625,000 | 714 | 1076 | 0.503856198 | |
| 11 | 53,550,000 | 53,700,000 | 715 | 746 | 0.256787451 | |
| 11 | 53,625,000 | 53,775,000 | 716 | 859 | 0.300192823 | |
| 11 | 53,700,000 | 53,850,000 | 717 | 993 | 0.48126194 | |
| 11 | 53,775,000 | 53,925,000 | 718 | 872 | 0.64089911 | |
| 11 | 53,850,000 | 54,000,000 | 719 | 952 | 0.618299162 | |
| 11 | 53,925,000 | 54,075,000 | 720 | 1216 | 0.745326965 | |
| 11 | 54,000,000 | 54,150,000 | 721 | 927 | 0.815074414 | |
| 11 | 54,075,000 | 54,225,000 | 722 | 687 | 0.87520508 | |
| 11 | 54,150,000 | 54,300,000 | 723 | 875 | -0.169110377 | |
| 11 | 54,225,000 | 54,375,000 | 724 | 1074 | -0.107418151 | |
| 11 | 54,300,000 | 54,450,000 | 725 | 1125 | 0.946500188 | |
| 11 | 54,375,000 | 54,525,000 | 726 | 1092 | 0.724195108 | |
| 11 | 54,450,000 | 54,600,000 | 727 | 757 | 0.578782721 | |
| 11 | 54,525,000 | 54,675,000 | 728 | 452 | 0.959911593 | |
| 11 | 54,600,000 | 54,750,000 | 729 | 466 | 1.293586492 | CTNNA2 |
| 11 | 54,675,000 | 54,825,000 | 730 | 614 | 0.867352941 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,750,000 | 54,900,000 | 731 | 1124 | -1.570368368 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,825,000 | 54,975,000 | 732 | 1467 | -1.985390784 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,900,000 | 55,050,000 | 733 | 1076 | -1.023531339 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,975,000 | 55,125,000 | 734 | 770 | 0.012321879 | CTNNA2,ENSBTAG00000047167 |
| 11 | 55,050,000 | 55,200,000 | 735 | 665 | -0.242585857 | CTNNA2 |
| 11 | 55,125,000 | 55,275,000 | 736 | 537 | -1.791796805 | CTNNA2 |
| 11 | 55,200,000 | 55,350,000 | 737 | 860 | -0.648810067 | CTNNA2 |
| 11 | 55,275,000 | 55,425,000 | 738 | 1195 | -0.59449779 | CTNNA2 |
| 11 | 55,350,000 | 55,500,000 | 739 | 1378 | -1.187536995 | CTNNA2 |
| 11 | 55,425,000 | 55,575,000 | 740 | 1156 | -0.753650556 | CTNNA2 |
| 11 | 55,500,000 | 55,650,000 | 741 | 1117 | 0.603576773 | CTNNA2 |
| 11 | 55,575,000 | 55,725,000 | 742 | 1065 | 0.635308525 | CTNNA2 |
| 11 | 55,650,000 | 55,800,000 | 743 | 608 | -0.251557363 | CTNNA2 |
| 11 | 55,725,000 | 55,875,000 | 744 | 594 | -0.202415982 | CTNNA2 |
| 11 | 55,800,000 | 55,950,000 | 745 | 872 | -1.090241893 | CTNNA2 |
| 11 | 55,875,000 | 56,025,000 | 746 | 979 | -1.331488135 | CTNNA2 |
| 11 | 55,950,000 | 56,100,000 | 747 | 621 | 0.426930306 | |
| 11 | 56,025,000 | 56,175,000 | 748 | 513 | 0.792318045 | |
| 11 | 56,100,000 | 56,250,000 | 749 | 820 | 1.176140003 | |
| 11 | 56,175,000 | 56,325,000 | 750 | 1231 | 1.298893944 | |
| 11 | 56,250,000 | 56,400,000 | 751 | 1731 | 1.311494228 | |
| 11 | 56,325,000 | 56,475,000 | 752 | 1891 | 1.342559365 | |
| 11 | 56,400,000 | 56,550,000 | 753 | 1409 | 1.268487602 | REG3G |
| 11 | 56,475,000 | 56,625,000 | 754 | 1367 | 1.329921967 | REG3G |
| 11 | 56,550,000 | 56,700,000 | 755 | 2151 | 1.36452795 | PTP |
| 11 | 56,625,000 | 56,775,000 | 756 | 2081 | 1.333318553 | PTP |
| 11 | 56,700,000 | 56,850,000 | 757 | 1360 | 0.993656346 | |
| 11 | 56,775,000 | 56,925,000 | 758 | 1284 | 0.621029085 | |
| 11 | 56,850,000 | 57,000,000 | 759 | 1768 | 1.018040888 | ENSBTAG0000000168 |
| 11 | 56,925,000 | 57,075,000 | 760 | 1822 | 0.879869307 | ENSBTAG0000000168 |
| 11 | 57,000,000 | 57,150,000 | 761 | 1645 | 0.574761039 | |
| 11 | 57,075,000 | 57,225,000 | 762 | 1729 | 0.652173852 | |
| 11 | 57,150,000 | 57,300,000 | 763 | 1511 | 0.705095533 | |
| 11 | 57,225,000 | 57,375,000 | 764 | 1688 | 0.545401471 | |
| 11 | 57,300,000 | 57,450,000 | 765 | 1684 | 0.319899669 | |
| 11 | 57,375,000 | 57,525,000 | 766 | 1484 | 0.041778544 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------|
| 11 | 57,450,000 | 57,600,000 | 767 | 1485 | 0.380133953 | |
| 11 | 57,525,000 | 57,675,000 | 768 | 1481 | 0.834775925 | |
| 11 | 57,600,000 | 57,750,000 | 769 | 1736 | 0.845505642 | |
| 11 | 57,675,000 | 57,825,000 | 770 | 1591 | 0.897265974 | |
| 11 | 57,750,000 | 57,900,000 | 771 | 1379 | 1.152825543 | |
| 11 | 57,825,000 | 57,975,000 | 772 | 1589 | 1.12076277 | |
| 11 | 57,900,000 | 58,050,000 | 773 | 1592 | 0.818202879 | |
| 11 | 57,975,000 | 58,125,000 | 774 | 1383 | 0.658969548 | |
| 11 | 58,050,000 | 58,200,000 | 775 | 1253 | 0.723706673 | |
| 11 | 58,125,000 | 58,275,000 | 776 | 1378 | 0.821431644 | |
| 11 | 58,200,000 | 58,350,000 | 777 | 1396 | 0.21807236 | |
| 11 | 58,275,000 | 58,425,000 | 778 | 1295 | 0.259364718 | |
| 11 | 58,350,000 | 58,500,000 | 779 | 1092 | 0.74365807 | LRRTM4 |
| 11 | 58,425,000 | 58,575,000 | 780 | 1006 | 0.027815571 | LRRTM4 |
| 11 | 58,500,000 | 58,650,000 | 781 | 1151 | -0.141935116 | |
| 11 | 58,575,000 | 58,725,000 | 782 | 808 | 0.317909168 | |
| 11 | 58,650,000 | 58,800,000 | 783 | 644 | 0.758250545 | |
| 11 | 58,725,000 | 58,875,000 | 784 | 871 | 0.828972734 | |
| 11 | 58,800,000 | 58,950,000 | 785 | 966 | 0.375282351 | |
| 11 | 58,875,000 | 59,025,000 | 786 | 867 | -0.465629333 | |
| 11 | 58,950,000 | 59,100,000 | 787 | 976 | -1.353861065 | |
| 11 | 59,025,000 | 59,175,000 | 788 | 1011 | -1.157864474 | |
| 11 | 59,100,000 | 59,250,000 | 789 | 651 | -0.803071158 | |
| 11 | 59,175,000 | 59,325,000 | 790 | 481 | -0.708319693 | |
| 11 | 59,250,000 | 59,400,000 | 791 | 494 | -0.635580217 | |
| 11 | 59,325,000 | 59,475,000 | 792 | 443 | -0.5748624 | |
| 11 | 59,400,000 | 59,550,000 | 793 | 496 | -0.022589032 | |
| 11 | 59,475,000 | 59,625,000 | 794 | 836 | -1.211769004 | |
| 11 | 59,550,000 | 59,700,000 | 795 | 854 | -1.816919248 | |
| 11 | 59,625,000 | 59,775,000 | 796 | 461 | -1.548187791 | AHSA2,C2orf74 |
| 11 | 59,700,000 | 59,850,000 | 797 | 362 | 0.140907996 | AHSA2,C2orf74,USP34 |
| 11 | 59,775,000 | 59,925,000 | 798 | 421 | 0.545403102 | AHSA2,USP34 |
| 11 | 59,850,000 | 60,000,000 | 799 | 401 | 0.356285701 | USP34 |
| 11 | 59,925,000 | 60,075,000 | 800 | 329 | 0.602506452 | USP34,XPO1 |
| 11 | 60,000,000 | 60,150,000 | 801 | 315 | 1.072081147 | XPO1 |
| 11 | 60,075,000 | 60,225,000 | 802 | 473 | 1.125455376 | XPO1 |
| 11 | 60,150,000 | 60,300,000 | 803 | 568 | 0.678842555 | |
| 11 | 60,225,000 | 60,375,000 | 804 | 644 | 0.787408944 | FAM161A |
| 11 | 60,300,000 | 60,450,000 | 805 | 889 | 0.399083795 | CCT4,COMMD1,FAM161A |
| 11 | 60,375,000 | 60,525,000 | 806 | 931 | 0.189305882 | CCT4,COMMD1,FAM161A |
| 11 | 60,450,000 | 60,600,000 | 807 | 972 | 0.479183213 | COMMD1 |
| 11 | 60,525,000 | 60,675,000 | 808 | 741 | 0.342662279 | B3GNT2,COMMD1 |
| 11 | 60,600,000 | 60,750,000 | 809 | 357 | 0.233848973 | B3GNT2 |
| 11 | 60,675,000 | 60,825,000 | 810 | 583 | -0.540350515 | B3GNT2 |
| 11 | 60,750,000 | 60,900,000 | 811 | 916 | -0.702553983 | |
| 11 | 60,825,000 | 60,975,000 | 812 | 889 | 0.29229484 | TMEM17 |
| 11 | 60,900,000 | 61,050,000 | 813 | 640 | 0.888527767 | TMEM17 |
| 11 | 60,975,000 | 61,125,000 | 814 | 681 | -1.179937044 | EHBP1 |
| 11 | 61,050,000 | 61,200,000 | 815 | 542 | -1.794787465 | EHBP1 |
| 11 | 61,125,000 | 61,275,000 | 816 | 256 | -0.205861846 | EHBP1 |
| 11 | 61,200,000 | 61,350,000 | 817 | 279 | 0.215628305 | EHBP1 |
| 11 | 61,275,000 | 61,425,000 | 818 | 318 | -1.152676954 | EHBP1 |
| 11 | 61,350,000 | 61,500,000 | 819 | 289 | -0.815025262 | EHBP1,OTX1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 11 | 61,425,000 | 61,575,000 | 820 | 229 | 0.836704683 | EHBP1,OTX1 |
| 11 | 61,500,000 | 61,650,000 | 821 | 280 | 0.860234544 | |
| 11 | 61,575,000 | 61,725,000 | 822 | 328 | 0.720751781 | |
| 11 | 61,650,000 | 61,800,000 | 823 | 350 | 0.5328063 | WDPCP |
| 11 | 61,725,000 | 61,875,000 | 824 | 353 | 0.044657024 | WDPCP |
| 11 | 61,800,000 | 61,950,000 | 825 | 366 | -0.170385998 | WDPCP |
| 11 | 61,875,000 | 62,025,000 | 826 | 581 | 0.496170687 | MDH1,WDPCP |
| 11 | 61,950,000 | 62,100,000 | 827 | 742 | 0.205132407 | MDH1,WDPCP |
| 11 | 62,025,000 | 62,175,000 | 828 | 515 | -0.90652671 | |
| 11 | 62,100,000 | 62,250,000 | 829 | 307 | -3.258728774 | UGP2 |
| 11 | 62,175,000 | 62,325,000 | 830 | 303 | -3.183385158 | UGP2,VPS54 |
| 11 | 62,250,000 | 62,400,000 | 831 | 317 | -1.222338156 | UGP2,VPS54 |
| 11 | 62,325,000 | 62,475,000 | 832 | 303 | 0.189891762 | PELI1,VPS54 |
| 11 | 62,400,000 | 62,550,000 | 833 | 487 | -0.854709214 | PELI1 |
| 11 | 62,475,000 | 62,625,000 | 834 | 737 | -0.412016946 | PELI1 |
| 11 | 62,550,000 | 62,700,000 | 835 | 646 | 0.081527164 | |
| 11 | 62,625,000 | 62,775,000 | 836 | 665 | 0.40438447 | |
| 11 | 62,700,000 | 62,850,000 | 837 | 703 | 0.088804945 | LGALSL |
| 11 | 62,775,000 | 62,925,000 | 838 | 445 | -0.495506316 | AFTPH,LGALSL |
| 11 | 62,850,000 | 63,000,000 | 839 | 302 | 0.200170688 | AFTPH,SERTAD2 |
| 11 | 62,925,000 | 63,075,000 | 840 | 304 | 0.564789847 | AFTPH,SERTAD2 |
| 11 | 63,000,000 | 63,150,000 | 841 | 350 | 0.163384205 | |
| 11 | 63,075,000 | 63,225,000 | 842 | 466 | 0.294303602 | |
| 11 | 63,150,000 | 63,300,000 | 843 | 610 | 0.91485954 | TMSB4X |
| 11 | 63,225,000 | 63,375,000 | 844 | 605 | 0.993511122 | SLC1A4,TMSB4X |
| 11 | 63,300,000 | 63,450,000 | 845 | 610 | 1.253103042 | CEP68,RAB1A,SLC1A4,TMSB4X |
| 11 | 63,375,000 | 63,525,000 | 846 | 880 | 0.564404721 | CEP68,RAB1A,TMSB4X |
| 11 | 63,450,000 | 63,600,000 | 847 | 745 | -0.401649225 | ACTR2,RAB1A |
| 11 | 63,525,000 | 63,675,000 | 848 | 415 | 0.042053158 | ACTR2,SPRED2 |
| 11 | 63,600,000 | 63,750,000 | 849 | 332 | -0.711066689 | SPRED2 |
| 11 | 63,675,000 | 63,825,000 | 850 | 410 | -1.367349933 | |
| 11 | 63,750,000 | 63,900,000 | 851 | 1105 | 0.457173065 | |
| 11 | 63,825,000 | 63,975,000 | 852 | 1307 | 0.884549579 | |
| 11 | 63,900,000 | 64,050,000 | 853 | 612 | 1.011859921 | |
| 11 | 63,975,000 | 64,125,000 | 854 | 354 | 0.549306336 | |
| 11 | 64,050,000 | 64,200,000 | 855 | 759 | 0.967631112 | |
| 11 | 64,125,000 | 64,275,000 | 856 | 1154 | 1.16069864 | |
| 11 | 64,200,000 | 64,350,000 | 857 | 988 | 1.183250244 | |
| 11 | 64,275,000 | 64,425,000 | 858 | 705 | 1.035468266 | |
| 11 | 64,350,000 | 64,500,000 | 859 | 604 | 0.800494253 | |
| 11 | 64,425,000 | 64,575,000 | 860 | 505 | 0.056139835 | |
| 11 | 64,500,000 | 64,650,000 | 861 | 594 | 0.619082818 | |
| 11 | 64,575,000 | 64,725,000 | 862 | 545 | 0.90408622 | |
| 11 | 64,650,000 | 64,800,000 | 863 | 286 | 0.227867437 | MEIS1 |
| 11 | 64,725,000 | 64,875,000 | 864 | 285 | 0.860133475 | MEIS1 |
| 11 | 64,800,000 | 64,950,000 | 865 | 380 | 1.099537091 | MEIS1 |
| 11 | 64,875,000 | 65,025,000 | 866 | 348 | 0.969959858 | MEIS1 |
| 11 | 64,950,000 | 65,100,000 | 867 | 303 | -0.329666243 | |
| 11 | 65,025,000 | 65,175,000 | 868 | 325 | -0.551414843 | |
| 11 | 65,100,000 | 65,250,000 | 869 | 416 | 0.4256679 | |
| 11 | 65,175,000 | 65,325,000 | 870 | 523 | 0.348886297 | |
| 11 | 65,250,000 | 65,400,000 | 871 | 512 | 0.459054009 | |
| 11 | 65,325,000 | 65,475,000 | 872 | 537 | 0.069437043 | |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|--|
| 11 | 65,400,000 | 65,550,000 | 873 | 728 | 0.502429193 | ENSBTAG00000046310 |
| 11 | 65,475,000 | 65,625,000 | 874 | 747 | 1.081166686 | ENSBTAG00000046310 |
| 11 | 65,550,000 | 65,700,000 | 875 | 547 | 0.67694187 | |
| 11 | 65,625,000 | 65,775,000 | 876 | 727 | -0.571609873 | |
| 11 | 65,700,000 | 65,850,000 | 877 | 816 | -1.084187417 | ETAA1 |
| 11 | 65,775,000 | 65,925,000 | 878 | 459 | -0.93347818 | ETAA1 |
| 11 | 65,850,000 | 66,000,000 | 879 | 322 | -0.737441652 | |
| 11 | 65,925,000 | 66,075,000 | 880 | 530 | -0.224241999 | |
| 11 | 66,000,000 | 66,150,000 | 881 | 729 | -0.250142705 | |
| 11 | 66,075,000 | 66,225,000 | 882 | 628 | -0.870550439 | |
| 11 | 66,150,000 | 66,300,000 | 883 | 503 | 0.431524003 | |
| 11 | 66,225,000 | 66,375,000 | 884 | 526 | 1.350697092 | |
| 11 | 66,300,000 | 66,450,000 | 885 | 447 | 1.313959041 | |
| 11 | 66,375,000 | 66,525,000 | 886 | 296 | 0.665431281 | C1D |
| 11 | 66,450,000 | 66,600,000 | 887 | 259 | 0.061460014 | C1D,PNO1,PPP3R1,WDR92 |
| 11 | 66,525,000 | 66,675,000 | 888 | 445 | 0.551144934 | PNO1,PPP3R1,WDR92 |
| 11 | 66,600,000 | 66,750,000 | 889 | 483 | 0.286414119 | CNRIP1,PPP3R1 |
| 11 | 66,675,000 | 66,825,000 | 890 | 451 | -0.086142651 | CNRIP1,PLEK |
| 11 | 66,750,000 | 66,900,000 | 891 | 669 | 0.42660829 | APLF,FBXO48,PLEK |
| 11 | 66,825,000 | 66,975,000 | 892 | 893 | 0.516112371 | APLF,FBXO48 |
| 11 | 66,900,000 | 67,050,000 | 893 | 832 | 0.141600275 | APLF,PROKR1 |
| 11 | 66,975,000 | 67,125,000 | 894 | 491 | -0.659565642 | ARHGAP25,PROKR1 |
| 11 | 67,050,000 | 67,200,000 | 895 | 454 | 0.223326009 | ARHGAP25,BMP10 |
| 11 | 67,125,000 | 67,275,000 | 896 | 540 | -1.574740934 | ARHGAP25,BMP10,GKN2,ENSBTAG00000038835 |
| 11 | 67,200,000 | 67,350,000 | 897 | 376 | -3.09671459 | ANTXR1,FOV,GKN2,ENSBTAG00000038835 |
| 11 | 67,275,000 | 67,425,000 | 898 | 572 | -1.528376954 | ANTXR1,FOV |
| 11 | 67,350,000 | 67,500,000 | 899 | 890 | 0.0014472 | ANTXR1 |
| 11 | 67,425,000 | 67,575,000 | 900 | 859 | 0.477958624 | ANTXR1 |
| 11 | 67,500,000 | 67,650,000 | 901 | 716 | 0.383197601 | ANTXR1 |
| 11 | 67,575,000 | 67,725,000 | 902 | 584 | 1.171783462 | ANTXR1,GFPT1 |
| 11 | 67,650,000 | 67,800,000 | 903 | 827 | 1.410956564 | GFPT1,NFU1 |
| 11 | 67,725,000 | 67,875,000 | 904 | 759 | 1.394975742 | AAK1,GFPT1,NFU1,ENSBTAG00000047822 |
| 11 | 67,800,000 | 67,950,000 | 905 | 486 | 1.097916042 | AAK1,ENSBTAG00000047822 |
| 11 | 67,875,000 | 68,025,000 | 906 | 444 | 0.823081876 | AAK1 |
| 11 | 67,950,000 | 68,100,000 | 907 | 483 | -1.113595711 | AAK1,ANXA4 |
| 11 | 68,025,000 | 68,175,000 | 908 | 479 | -1.315823713 | ANXA4,GMCL1 |
| 11 | 68,100,000 | 68,250,000 | 909 | 277 | -0.417563041 | ANXA4,GMCL1,MXD1,SNRNP27 |
| 11 | 68,175,000 | 68,325,000 | 910 | 280 | -0.977906662 | GMCL1,MXD1,SNRNP27 |
| 11 | 68,250,000 | 68,400,000 | 911 | 337 | -0.17518212 | MXD1,PCBP1 |
| 11 | 68,325,000 | 68,475,000 | 912 | 351 | -0.226052238 | C2orf42,PCBP1 |
| 11 | 68,400,000 | 68,550,000 | 913 | 406 | -0.095890756 | C2orf42,TIA1 |
| 11 | 68,475,000 | 68,625,000 | 914 | 441 | 0.58177886 | C2orf42,PCYOX1,TIA1 |
| 11 | 68,550,000 | 68,700,000 | 915 | 640 | 0.720545228 | CAPN14,MGC139254,PCYOX1 |
| 11 | 68,625,000 | 68,775,000 | 916 | 909 | 0.343400303 | CAPN14,GALNT14,MGC139254 |
| 11 | 68,700,000 | 68,850,000 | 917 | 669 | 0.070113717 | CAPN14,GALNT14 |
| 11 | 68,775,000 | 68,925,000 | 918 | 280 | -0.488971951 | GALNT14 |
| 11 | 68,850,000 | 69,000,000 | 919 | 361 | -2.049429558 | GALNT14 |
| 11 | 68,925,000 | 69,075,000 | 920 | 515 | -2.460012367 | CAPN13,GALNT14 |
| 11 | 69,000,000 | 69,150,000 | 921 | 598 | -0.925003867 | CAPN13 |
| 11 | 69,075,000 | 69,225,000 | 922 | 753 | -1.200123228 | CAPN13,LCLAT1 |
| 11 | 69,150,000 | 69,300,000 | 923 | 825 | -2.210272329 | LCLAT1 |
| 11 | 69,225,000 | 69,375,000 | 924 | 626 | -1.988678053 | LCLAT1 |
| 11 | 69,300,000 | 69,450,000 | 925 | 387 | -0.708001397 | LCLAT1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 69,375,000 | 69,525,000 | 926 | 496 | -0.81183408 | |
| 11 | 69,450,000 | 69,600,000 | 927 | 756 | -2.943633202 | LBH |
| 11 | 69,525,000 | 69,675,000 | 928 | 662 | -2.43410788 | LBH |
| 11 | 69,600,000 | 69,750,000 | 929 | 343 | 0.154840677 | LBH,YPEL5 |
| 11 | 69,675,000 | 69,825,000 | 930 | 244 | -0.713541875 | YPEL5 |
| 11 | 69,750,000 | 69,900,000 | 931 | 255 | -1.772099275 | |
| 11 | 69,825,000 | 69,975,000 | 932 | 265 | -2.324303134 | |
| 11 | 69,900,000 | 70,050,000 | 933 | 290 | -3.069844508 | |
| 11 | 69,975,000 | 70,125,000 | 934 | 497 | -3.660043884 | |
| 11 | 70,050,000 | 70,200,000 | 935 | 773 | -2.145378514 | |
| 11 | 70,125,000 | 70,275,000 | 936 | 794 | -2.090367587 | |
| 11 | 70,200,000 | 70,350,000 | 937 | 666 | -3.576862785 | |
| 11 | 70,275,000 | 70,425,000 | 938 | 625 | -2.462331353 | |
| 11 | 70,350,000 | 70,500,000 | 939 | 711 | -0.89544526 | |
| 11 | 70,425,000 | 70,575,000 | 940 | 719 | -1.973067622 | ALK |
| 11 | 70,500,000 | 70,650,000 | 941 | 664 | -1.912501379 | ALK |
| 11 | 70,575,000 | 70,725,000 | 942 | 851 | 0.112261808 | ALK,CLIP4 |
| 11 | 70,650,000 | 70,800,000 | 943 | 820 | 0.130346777 | C2orf71,CLIP4,FAM179A |
| 11 | 70,725,000 | 70,875,000 | 944 | 468 | -0.095587262 | C2orf71,CLIP4,FAM179A,WDR43 |
| 11 | 70,800,000 | 70,950,000 | 945 | 274 | -0.172509727 | FAM179A,SPDYA,WDR43 |
| 11 | 70,875,000 | 71,025,000 | 946 | 200 | -2.711570353 | PPP1CB,SPDYA,WDR43 |
| 11 | 70,950,000 | 71,100,000 | 947 | 200 | -2.902529586 | PPP1CB,SPDYA |
| 11 | 71,025,000 | 71,175,000 | 948 | 270 | -1.434192606 | PLB1 |
| 11 | 71,100,000 | 71,250,000 | 949 | 512 | -0.509376529 | PLB1 |
| 11 | 71,175,000 | 71,325,000 | 950 | 780 | -1.314325292 | PLB1 |
| 11 | 71,250,000 | 71,400,000 | 951 | 546 | -1.257679291 | FOSL2 |
| 11 | 71,325,000 | 71,475,000 | 952 | 312 | 0.640050166 | BRE,FOSL2 |
| 11 | 71,400,000 | 71,550,000 | 953 | 379 | 0.119507845 | BRE |
| 11 | 71,475,000 | 71,625,000 | 954 | 298 | -0.200329478 | BRE |
| 11 | 71,550,000 | 71,700,000 | 955 | 322 | 1.022468776 | BRE |
| 11 | 71,625,000 | 71,775,000 | 956 | 405 | 1.210251033 | BRE |
| 11 | 71,700,000 | 71,850,000 | 957 | 446 | 1.332962032 | BRE,RBKS |
| 11 | 71,775,000 | 71,925,000 | 958 | 386 | 1.183489634 | BRE,RBKS |
| 11 | 71,850,000 | 72,000,000 | 959 | 483 | -0.173039953 | RBKS,ENSBTAG00000018680 |
| 11 | 71,925,000 | 72,075,000 | 960 | 689 | -0.235203361 | GPN1,SUPT7L,ZNF512,ENSBTAG00000018680 |
| 11 | 72,000,000 | 72,150,000 | 961 | 595 | 0.365950858 | C2orf16,GPN1,SUPT7L,ZNF512,ENSBTAG00000018680 |
| 11 | 72,075,000 | 72,225,000 | 962 | 458 | 0.199340105 | C2orf16,FNDC4,GCKR,IFT172,KRTCAP3,NRBP1,ZNF512 |
| 11 | 72,150,000 | 72,300,000 | 963 | 360 | -0.066449795 | EIF2B4,FNDC4,GCKR,GTF3C2,IFT172,KRTCAP3,NRBP1,PPM1G,SNX17,ZNF513 |
| 11 | 72,225,000 | 72,375,000 | 964 | 293 | 0.462839645 | DNAJC5G,EIF2B4,GTF3C2,MPV17,NRBP1,PPM1G,SLC30A3,SNX17,TRIM54,UCN,ZNF513 |
| 11 | 72,300,000 | 72,450,000 | 965 | 348 | 0.582323209 | ATRAID,CAD,DNAJC5G,GTF3C2,MPV17,SLC30A3,SLC5A6,TRIM54,UCN |
| 11 | 72,375,000 | 72,525,000 | 966 | 379 | 0.628534272 | ABHD1,ATRAID,CAD,CGREF1,PRES,PRR30,SLC5A6,TCF23 |
| 11 | 72,450,000 | 72,600,000 | 967 | 367 | 0.474915631 | ABHD1,AGBL5,CGREF1,EMILIN1,KHK,MAPRE3,PRES,PRR30,TCF23,TMEM214 |
| 11 | 72,525,000 | 72,675,000 | 968 | 627 | 0.497668633 | AGBL5,DPYSL5,EMILIN1,KHK,MAPRE3,TMEM214 |
| 11 | 72,600,000 | 72,750,000 | 969 | 981 | 0.337255383 | DPYSL5,MAPRE3 |
| 11 | 72,675,000 | 72,825,000 | 970 | 1033 | 0.621938153 | DPYSL5,MGC139367,ENSBTAG00000023938 |
| 11 | 72,750,000 | 72,900,000 | 971 | 728 | 0.854523665 | DPYSL5,KCNK3,MGC139367,ENSBTAG00000023938 |
| 11 | 72,825,000 | 72,975,000 | 972 | 520 | 0.921677065 | C11H2orf70,CIB4,KCNK3 |
| 11 | 72,900,000 | 73,050,000 | 973 | 749 | 1.007169162 | C11H2orf70,CIB4,OTOF |
| 11 | 72,975,000 | 73,125,000 | 974 | 833 | 0.781020601 | C11H2orf70,DRC1,OTOF |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 11 | 73,050,000 | 73,200,000 | 975 | 657 | -0.014068073 | DRC1,EPT1,GPR113,IER3IP1,OTOF |
| 11 | 73,125,000 | 73,275,000 | 976 | 475 | -0.970717502 | EPT1,GPR113,HADHA,HADHB,IER3IP1 |
| 11 | 73,200,000 | 73,350,000 | 977 | 427 | -1.640875475 | GAREML,GPR113,HADHA,HADHB,RAB10 |
| 11 | 73,275,000 | 73,425,000 | 978 | 392 | -0.671603836 | GAREML,HADHA,RAB10 |
| 11 | 73,350,000 | 73,500,000 | 979 | 297 | 0.696461633 | KIF3C,RAB10 |
| 11 | 73,425,000 | 73,575,000 | 980 | 354 | 0.612113759 | KIF3C |
| 11 | 73,500,000 | 73,650,000 | 981 | 415 | 0.171268986 | ASXL2 |
| 11 | 73,575,000 | 73,725,000 | 982 | 392 | 0.239548135 | ASXL2,DTNB |
| 11 | 73,650,000 | 73,800,000 | 983 | 362 | 0.957781313 | DTNB |
| 11 | 73,725,000 | 73,875,000 | 984 | 336 | 0.765641169 | DTNB |
| 11 | 73,800,000 | 73,950,000 | 985 | 299 | 0.629450761 | DTNB |
| 11 | 73,875,000 | 74,025,000 | 986 | 381 | 0.68197259 | DTNB |
| 11 | 73,950,000 | 74,100,000 | 987 | 464 | 0.757826454 | DNMT3A |
| 11 | 74,025,000 | 74,175,000 | 988 | 889 | 1.153680888 | DNMT3A,EFR3B,POMC |
| 11 | 74,100,000 | 74,250,000 | 989 | 1103 | 1.127349202 | EFR3B,POMC |
| 11 | 74,175,000 | 74,325,000 | 990 | 568 | 0.630700663 | DNAJC27 |
| 11 | 74,250,000 | 74,400,000 | 991 | 436 | -0.336433093 | ADCY3,DNAJC27 |
| 11 | 74,325,000 | 74,475,000 | 992 | 478 | -0.506317208 | ADCY3,CENPO,DNAJC27 |
| 11 | 74,400,000 | 74,550,000 | 993 | 264 | -0.913764246 | ADCY3,CENPO,NCOA1,PTRHD1,ENSBTAG00000047575 |
| 11 | 74,475,000 | 74,625,000 | 994 | 210 | -0.605480751 | CENPO,NCOA1,PTRHD1,ENSBTAG00000047575 |
| 11 | 74,550,000 | 74,700,000 | 995 | 205 | 0.053847749 | NCOA1 |
| 11 | 74,625,000 | 74,775,000 | 996 | 210 | 0.486277606 | |
| 11 | 74,700,000 | 74,850,000 | 997 | 256 | 0.004940367 | |
| 11 | 74,775,000 | 74,925,000 | 998 | 229 | -0.15681075 | ITSN2 |
| 11 | 74,850,000 | 75,000,000 | 999 | 163 | -0.293582027 | FAM228A,FAM228B,ITSN2 |
| 11 | 74,925,000 | 75,075,000 | 1000 | 242 | -0.090379967 | C2orf44,FAM228A,FAM228B,FKBP1B,ITSN2,PFN4,SF3B14,TP53I3 |
| 11 | 75,000,000 | 75,150,000 | 1001 | 488 | 0.509687453 | ATAD2B,C2orf44,FAM228B,FKBP1B,MFSD2B,PFN4,SF3B14,TP53I3,UBXN2A |
| 11 | 75,075,000 | 75,225,000 | 1002 | 658 | 0.789325292 | ATAD2B,C2orf44,MFSD2B,UBXN2A |
| 11 | 75,150,000 | 75,300,000 | 1003 | 644 | 0.605343456 | ATAD2B,KLHL29 |
| 11 | 75,225,000 | 75,375,000 | 1004 | 822 | -0.057050943 | ATAD2B,KLHL29 |
| 11 | 75,300,000 | 75,450,000 | 1005 | 803 | 0.233613518 | KLHL29 |
| 11 | 75,375,000 | 75,525,000 | 1006 | 672 | 0.584810229 | KLHL29 |
| 11 | 75,450,000 | 75,600,000 | 1007 | 683 | -0.084256955 | KLHL29 |
| 11 | 75,525,000 | 75,675,000 | 1008 | 452 | -0.384631946 | KLHL29 |
| 11 | 75,600,000 | 75,750,000 | 1009 | 677 | 0.517407572 | KLHL29 |
| 11 | 75,675,000 | 75,825,000 | 1010 | 831 | -0.003137551 | |
| 11 | 75,750,000 | 75,900,000 | 1011 | 486 | -1.583441201 | |
| 11 | 75,825,000 | 75,975,000 | 1012 | 564 | -0.355255381 | |
| 11 | 75,900,000 | 76,050,000 | 1013 | 990 | 0.718665704 | |
| 11 | 75,975,000 | 76,125,000 | 1014 | 1005 | 0.648269469 | |
| 11 | 76,050,000 | 76,200,000 | 1015 | 731 | -0.108754902 | |
| 11 | 76,125,000 | 76,275,000 | 1016 | 583 | 0.044880982 | |
| 11 | 76,200,000 | 76,350,000 | 1017 | 613 | 0.865021758 | |
| 11 | 76,275,000 | 76,425,000 | 1018 | 658 | 0.932003628 | |
| 11 | 76,350,000 | 76,500,000 | 1019 | 659 | 0.54331534 | |
| 11 | 76,425,000 | 76,575,000 | 1020 | 913 | 0.31019145 | |
| 11 | 76,500,000 | 76,650,000 | 1021 | 888 | 0.276694038 | |
| 11 | 76,575,000 | 76,725,000 | 1022 | 876 | 0.227938429 | |
| 11 | 76,650,000 | 76,800,000 | 1023 | 1023 | -0.14244746 | |
| 11 | 76,725,000 | 76,875,000 | 1024 | 883 | -0.392155327 | |
| 11 | 76,800,000 | 76,950,000 | 1025 | 1179 | 0.262669135 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|------------------------------|
| 11 | 76,875,000 | 77,025,000 | 1026 | 1392 | 0.011041276 | |
| 11 | 76,950,000 | 77,100,000 | 1027 | 1089 | -1.01019797 | |
| 11 | 77,025,000 | 77,175,000 | 1028 | 913 | -1.078941426 | |
| 11 | 77,100,000 | 77,250,000 | 1029 | 904 | 0.681184013 | |
| 11 | 77,175,000 | 77,325,000 | 1030 | 824 | 0.933387445 | |
| 11 | 77,250,000 | 77,400,000 | 1031 | 816 | 0.470832301 | |
| 11 | 77,325,000 | 77,475,000 | 1032 | 684 | -0.058465521 | |
| 11 | 77,400,000 | 77,550,000 | 1033 | 546 | 0.059319806 | |
| 11 | 77,475,000 | 77,625,000 | 1034 | 742 | 0.868236474 | |
| 11 | 77,550,000 | 77,700,000 | 1035 | 910 | 0.735355718 | ENSBTAG00000030834 |
| 11 | 77,625,000 | 77,775,000 | 1036 | 872 | 0.096467952 | ENSBTAG00000030834 |
| 11 | 77,700,000 | 77,850,000 | 1037 | 854 | 0.183470802 | |
| 11 | 77,775,000 | 77,925,000 | 1038 | 801 | 0.820881107 | |
| 11 | 77,850,000 | 78,000,000 | 1039 | 633 | 0.877831791 | APOB |
| 11 | 77,925,000 | 78,075,000 | 1040 | 680 | 0.958929843 | APOB |
| 11 | 78,000,000 | 78,150,000 | 1041 | 598 | 0.066552952 | APOB |
| 11 | 78,075,000 | 78,225,000 | 1042 | 335 | -1.043755437 | C2ORF43 |
| 11 | 78,150,000 | 78,300,000 | 1043 | 329 | -0.654895537 | C2ORF43,GDF7,HS1BP3 |
| 11 | 78,225,000 | 78,375,000 | 1044 | 600 | -0.867102316 | C2ORF43,GDF7,HS1BP3 |
| 11 | 78,300,000 | 78,450,000 | 1045 | 806 | -0.366041667 | HS1BP3 |
| 11 | 78,375,000 | 78,525,000 | 1046 | 569 | 0.381723085 | RHOB,ENSBTAG00000016270 |
| 11 | 78,450,000 | 78,600,000 | 1047 | 344 | 0.509305533 | PUM2,RHOB,ENSBTAG00000016270 |
| 11 | 78,525,000 | 78,675,000 | 1048 | 356 | 0.2685167 | PUM2 |
| 11 | 78,600,000 | 78,750,000 | 1049 | 413 | -0.214809002 | PUM2,SDC1 |
| 11 | 78,675,000 | 78,825,000 | 1050 | 493 | -0.181020184 | SDC1 |
| 11 | 78,750,000 | 78,900,000 | 1051 | 522 | 0.54916192 | LAPTM4A,MATN3 |
| 11 | 78,825,000 | 78,975,000 | 1052 | 534 | 0.642564573 | LAPTM4A,MATN3,TTC32 |
| 11 | 78,900,000 | 79,050,000 | 1053 | 456 | 0.547611194 | MATN3,TTC32 |
| 11 | 78,975,000 | 79,125,000 | 1054 | 464 | 0.640361692 | TTC32 |
| 11 | 79,050,000 | 79,200,000 | 1055 | 586 | 0.46699084 | |
| 11 | 79,125,000 | 79,275,000 | 1056 | 553 | 0.55817244 | |
| 11 | 79,200,000 | 79,350,000 | 1057 | 534 | 0.441275794 | |
| 11 | 79,275,000 | 79,425,000 | 1058 | 613 | 0.205777511 | |
| 11 | 79,350,000 | 79,500,000 | 1059 | 661 | 0.376848318 | OSR1 |
| 11 | 79,425,000 | 79,575,000 | 1060 | 531 | 0.218274364 | OSR1 |
| 11 | 79,500,000 | 79,650,000 | 1061 | 444 | -0.155321711 | |
| 11 | 79,575,000 | 79,725,000 | 1062 | 479 | -0.27887724 | |
| 11 | 79,650,000 | 79,800,000 | 1063 | 475 | -0.081177595 | |
| 11 | 79,725,000 | 79,875,000 | 1064 | 413 | 0.225074398 | |
| 11 | 79,800,000 | 79,950,000 | 1065 | 573 | -0.024587649 | |
| 11 | 79,875,000 | 80,025,000 | 1066 | 708 | 0.169973147 | |
| 11 | 79,950,000 | 80,100,000 | 1067 | 518 | 0.580960134 | |
| 11 | 80,025,000 | 80,175,000 | 1068 | 505 | 0.871002753 | |
| 11 | 80,100,000 | 80,250,000 | 1069 | 488 | 0.827815726 | ENSBTAG00000005270 |
| 11 | 80,175,000 | 80,325,000 | 1070 | 553 | 0.220551664 | RDH14,ENSBTAG00000005270 |
| 11 | 80,250,000 | 80,400,000 | 1071 | 524 | -0.991255198 | RDH14,ENSBTAG00000005270 |
| 11 | 80,325,000 | 80,475,000 | 1072 | 631 | -0.242602186 | |
| 11 | 80,400,000 | 80,550,000 | 1073 | 672 | 0.718395312 | |
| 11 | 80,475,000 | 80,625,000 | 1074 | 664 | -0.00316197 | |
| 11 | 80,550,000 | 80,700,000 | 1075 | 862 | -0.932899724 | |
| 11 | 80,625,000 | 80,775,000 | 1076 | 990 | -2.794572611 | |
| 11 | 80,700,000 | 80,850,000 | 1077 | 996 | -2.969610134 | KCNS3 |
| 11 | 80,775,000 | 80,925,000 | 1078 | 714 | -0.246729622 | KCNS3 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-----------------|
| 11 | 80,850,000 | 81,000,000 | 1079 | 390 | 0.236897041 | GEN1,MSGN1 |
| 11 | 80,925,000 | 81,075,000 | 1080 | 233 | 0.556412631 | GEN1,MSGN1,SMC6 |
| 11 | 81,000,000 | 81,150,000 | 1081 | 411 | 1.271001317 | SMC6,VSNL1 |
| 11 | 81,075,000 | 81,225,000 | 1082 | 696 | 1.217022982 | VSNL1 |
| 11 | 81,150,000 | 81,300,000 | 1083 | 552 | 1.163392765 | RAD51AP2,VSNL1 |
| 11 | 81,225,000 | 81,375,000 | 1084 | 429 | 1.014995732 | RAD51AP2 |
| 11 | 81,300,000 | 81,450,000 | 1085 | 624 | 1.090839988 | |
| 11 | 81,375,000 | 81,525,000 | 1086 | 926 | 1.13219725 | |
| 11 | 81,450,000 | 81,600,000 | 1087 | 1248 | 1.110459728 | |
| 11 | 81,525,000 | 81,675,000 | 1088 | 1558 | 0.780606992 | |
| 11 | 81,600,000 | 81,750,000 | 1089 | 1533 | 0.568022025 | |
| 11 | 81,675,000 | 81,825,000 | 1090 | 1226 | 0.291187639 | |
| 11 | 81,750,000 | 81,900,000 | 1091 | 1226 | -0.486060964 | |
| 11 | 81,825,000 | 81,975,000 | 1092 | 1163 | -0.129838579 | |
| 11 | 81,900,000 | 82,050,000 | 1093 | 1174 | 0.816171925 | FAM49A |
| 11 | 81,975,000 | 82,125,000 | 1094 | 1256 | 0.909501981 | FAM49A |
| 11 | 82,050,000 | 82,200,000 | 1095 | 863 | 0.740508136 | |
| 11 | 82,125,000 | 82,275,000 | 1096 | 433 | 0.478203202 | |
| 11 | 82,200,000 | 82,350,000 | 1097 | 792 | 0.994555163 | |
| 11 | 82,275,000 | 82,425,000 | 1098 | 1004 | 0.726869969 | |
| 11 | 82,350,000 | 82,500,000 | 1099 | 664 | 0.207978858 | |
| 11 | 82,425,000 | 82,575,000 | 1100 | 455 | 0.139335643 | |
| 11 | 82,500,000 | 82,650,000 | 1101 | 468 | 0.033604806 | |
| 11 | 82,575,000 | 82,725,000 | 1102 | 412 | -0.162917724 | MYCN |
| 11 | 82,650,000 | 82,800,000 | 1103 | 441 | 0.490759136 | MYCN |
| 11 | 82,725,000 | 82,875,000 | 1104 | 1033 | 0.982293831 | DDX1 |
| 11 | 82,800,000 | 82,950,000 | 1105 | 1275 | 1.079452001 | DDX1,NBAS |
| 11 | 82,875,000 | 83,025,000 | 1106 | 1372 | 1.331702034 | NBAS |
| 11 | 82,950,000 | 83,100,000 | 1107 | 1165 | 1.408159045 | NBAS |
| 11 | 83,025,000 | 83,175,000 | 1108 | 1192 | 1.306088298 | NBAS |
| 11 | 83,100,000 | 83,250,000 | 1109 | 1276 | 0.864808895 | NBAS |
| 11 | 83,175,000 | 83,325,000 | 1110 | 684 | -0.973962062 | NBAS |
| 11 | 83,250,000 | 83,400,000 | 1111 | 627 | -0.508108287 | |
| 11 | 83,325,000 | 83,475,000 | 1112 | 1103 | 0.105059161 | |
| 11 | 83,400,000 | 83,550,000 | 1113 | 1509 | 0.607539094 | |
| 11 | 83,475,000 | 83,625,000 | 1114 | 1134 | 0.550061742 | |
| 11 | 83,550,000 | 83,700,000 | 1115 | 827 | -0.62000706 | FAM84A |
| 11 | 83,625,000 | 83,775,000 | 1116 | 1288 | 0.153594014 | FAM84A |
| 11 | 83,700,000 | 83,850,000 | 1117 | 1356 | 0.240758696 | |
| 11 | 83,775,000 | 83,925,000 | 1118 | 922 | 0.210517677 | |
| 11 | 83,850,000 | 84,000,000 | 1119 | 1001 | 0.779722014 | |
| 11 | 83,925,000 | 84,075,000 | 1120 | 944 | 0.622180332 | |
| 11 | 84,000,000 | 84,150,000 | 1121 | 404 | -0.14294677 | |
| 11 | 84,075,000 | 84,225,000 | 1122 | 314 | 0.442497865 | |
| 11 | 84,150,000 | 84,300,000 | 1123 | 467 | 0.503861818 | |
| 11 | 84,225,000 | 84,375,000 | 1124 | 628 | 0.591281773 | |
| 11 | 84,300,000 | 84,450,000 | 1125 | 874 | 0.367955446 | |
| 11 | 84,375,000 | 84,525,000 | 1126 | 777 | 0.238369691 | |
| 11 | 84,450,000 | 84,600,000 | 1127 | 579 | 0.153401313 | |
| 11 | 84,525,000 | 84,675,000 | 1128 | 528 | -0.895243044 | |
| 11 | 84,600,000 | 84,750,000 | 1129 | 681 | -0.206671845 | |
| 11 | 84,675,000 | 84,825,000 | 1130 | 798 | 0.60629889 | |
| 11 | 84,750,000 | 84,900,000 | 1131 | 870 | 1.187301169 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 84,825,000 | 84,975,000 | 1132 | 1009 | 1.198819826 | |
| 11 | 84,900,000 | 85,050,000 | 1133 | 1023 | 0.941082289 | |
| 11 | 84,975,000 | 85,125,000 | 1134 | 842 | 0.75064011 | |
| 11 | 85,050,000 | 85,200,000 | 1135 | 565 | 0.582533808 | |
| 11 | 85,125,000 | 85,275,000 | 1136 | 549 | -0.460836241 | TRIB2 |
| 11 | 85,200,000 | 85,350,000 | 1137 | 720 | -0.066740059 | TRIB2 |
| 11 | 85,275,000 | 85,425,000 | 1138 | 828 | 0.783392117 | |
| 11 | 85,350,000 | 85,500,000 | 1139 | 638 | 1.064635228 | |
| 11 | 85,425,000 | 85,575,000 | 1140 | 440 | 0.747277811 | |
| 11 | 85,500,000 | 85,650,000 | 1141 | 394 | 1.151081359 | |
| 11 | 85,575,000 | 85,725,000 | 1142 | 589 | 0.855663944 | |
| 11 | 85,650,000 | 85,800,000 | 1143 | 1013 | 0.146358786 | |
| 11 | 85,725,000 | 85,875,000 | 1144 | 921 | -0.015900878 | |
| 11 | 85,800,000 | 85,950,000 | 1145 | 644 | 0.881632542 | |
| 11 | 85,875,000 | 86,025,000 | 1146 | 633 | 0.723292531 | |
| 11 | 85,950,000 | 86,100,000 | 1147 | 589 | 0.146218209 | LPIN1 |
| 11 | 86,025,000 | 86,175,000 | 1148 | 565 | 0.05567322 | LPIN1 |
| 11 | 86,100,000 | 86,250,000 | 1149 | 557 | -0.208544429 | GREB1,LPIN1,NTSR2 |
| 11 | 86,175,000 | 86,325,000 | 1150 | 489 | -1.736066372 | GREB1,NTSR2 |
| 11 | 86,250,000 | 86,400,000 | 1151 | 430 | -1.175636041 | E2F6,GREB1 |
| 11 | 86,325,000 | 86,475,000 | 1152 | 408 | 0.507997861 | E2F6 |
| 11 | 86,400,000 | 86,550,000 | 1153 | 378 | 0.171728966 | ROCK2,ENSBTAG00000048065 |
| 11 | 86,475,000 | 86,625,000 | 1154 | 369 | -0.012989783 | C11H2orf50,PQLC3,ROCK2,ENSBTAG00000048065 |
| 11 | 86,550,000 | 86,700,000 | 1155 | 479 | -0.605793202 | C11H2orf50,PQLC3,ROCK2 |
| 11 | 86,625,000 | 86,775,000 | 1156 | 506 | -0.071488927 | KCNF1 |
| 11 | 86,700,000 | 86,850,000 | 1157 | 460 | 0.795947893 | KCNF1,PDIA6 |
| 11 | 86,775,000 | 86,925,000 | 1158 | 652 | 0.303435302 | ATP6V1C2,PDIA6 |
| 11 | 86,850,000 | 87,000,000 | 1159 | 888 | -1.30605735 | ATP6V1C2,NOL10,PDIA6 |
| 11 | 86,925,000 | 87,075,000 | 1160 | 808 | -2.086763356 | NOL10 |
| 11 | 87,000,000 | 87,150,000 | 1161 | 520 | -1.648257571 | NOL10 |
| 11 | 87,075,000 | 87,225,000 | 1162 | 639 | -0.820669992 | HPCAL1,ODC1 |
| 11 | 87,150,000 | 87,300,000 | 1163 | 1100 | -3.426183013 | HPCAL1,ODC1 |
| 11 | 87,225,000 | 87,375,000 | 1164 | 1426 | -1.993747799 | HPCAL1 |
| 11 | 87,300,000 | 87,450,000 | 1165 | 1112 | -0.044002072 | HPCAL1 |
| 11 | 87,375,000 | 87,525,000 | 1166 | 628 | -0.378522947 | RRM2 |
| 11 | 87,450,000 | 87,600,000 | 1167 | 419 | 0.403228709 | GRHL1,RRM2,TIEG2 |
| 11 | 87,525,000 | 87,675,000 | 1168 | 272 | -0.324678151 | GRHL1,TAF1B,TIEG2 |
| 11 | 87,600,000 | 87,750,000 | 1169 | 367 | -0.296085954 | GRHL1,TAF1B |
| 11 | 87,675,000 | 87,825,000 | 1170 | 436 | 0.381143016 | TAF1B |
| 11 | 87,750,000 | 87,900,000 | 1171 | 416 | 0.886035172 | ADAM17,YWHAQ |
| 11 | 87,825,000 | 87,975,000 | 1172 | 762 | -2.521240093 | ADAM17,CPSF3,IAH1,YWHAQ |
| 11 | 87,900,000 | 88,050,000 | 1173 | 1010 | -2.956940976 | ADAM17,ASAP2,CPSF3,IAH1,ITGB1BP1 |
| 11 | 87,975,000 | 88,125,000 | 1174 | 1113 | -2.846636833 | ASAP2,CPSF3,ITGB1BP1 |
| 11 | 88,050,000 | 88,200,000 | 1175 | 1260 | -2.282890975 | ASAP2 |
| 11 | 88,125,000 | 88,275,000 | 1176 | 754 | -0.92775763 | |
| 11 | 88,200,000 | 88,350,000 | 1177 | 257 | 0.828642598 | |
| 11 | 88,275,000 | 88,425,000 | 1178 | 253 | 1.2251626 | MBOAT2 |
| 11 | 88,350,000 | 88,500,000 | 1179 | 352 | 0.974714837 | KIDINS220,MBOAT2 |
| 11 | 88,425,000 | 88,575,000 | 1180 | 253 | 0.942795117 | KIDINS220,MBOAT2 |
| 11 | 88,500,000 | 88,650,000 | 1181 | 140 | 0.662464525 | ID2,KIDINS220 |
| 11 | 88,575,000 | 88,725,000 | 1182 | 413 | 1.173340453 | ID2 |
| 11 | 88,650,000 | 88,800,000 | 1183 | 514 | 1.256399924 | |
| 11 | 88,725,000 | 88,875,000 | 1184 | 813 | 0.825808421 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|------------------------------------|
| 11 | 88,800,000 | 88,950,000 | 1185 | 1295 | 0.199983238 | |
| 11 | 88,875,000 | 89,025,000 | 1186 | 1169 | 0.252827115 | |
| 11 | 88,950,000 | 89,100,000 | 1187 | 1063 | 0.775166928 | |
| 11 | 89,025,000 | 89,175,000 | 1188 | 1112 | 0.933287535 | ENSBTAG00000037793 |
| 11 | 89,100,000 | 89,250,000 | 1189 | 1019 | 1.058943629 | ENSBTAG00000037793 |
| 11 | 89,175,000 | 89,325,000 | 1190 | 1099 | 0.807214854 | |
| 11 | 89,250,000 | 89,400,000 | 1191 | 992 | -0.277240645 | |
| 11 | 89,325,000 | 89,475,000 | 1192 | 752 | -0.680207012 | |
| 11 | 89,400,000 | 89,550,000 | 1193 | 730 | -0.074683411 | |
| 11 | 89,475,000 | 89,625,000 | 1194 | 760 | -1.060437515 | |
| 11 | 89,550,000 | 89,700,000 | 1195 | 874 | -1.004095663 | |
| 11 | 89,625,000 | 89,775,000 | 1196 | 751 | 0.352637213 | |
| 11 | 89,700,000 | 89,850,000 | 1197 | 710 | -0.465822693 | |
| 11 | 89,775,000 | 89,925,000 | 1198 | 659 | -0.968500258 | RNF144A |
| 11 | 89,850,000 | 90,000,000 | 1199 | 604 | 0.196206672 | RNF144A |
| 11 | 89,925,000 | 90,075,000 | 1200 | 578 | 0.828181804 | CMPK2,RNF144A,RSAD2 |
| 11 | 90,000,000 | 90,150,000 | 1201 | 592 | 0.829761552 | CMPK2,RSAD2 |
| 11 | 90,075,000 | 90,225,000 | 1202 | 864 | 0.208172091 | |
| 11 | 90,150,000 | 90,300,000 | 1203 | 890 | 0.264404411 | |
| 11 | 90,225,000 | 90,375,000 | 1204 | 1075 | 0.220106043 | |
| 11 | 90,300,000 | 90,450,000 | 1205 | 1423 | 0.259476148 | |
| 11 | 90,375,000 | 90,525,000 | 1206 | 1368 | 0.115623006 | |
| 11 | 90,450,000 | 90,600,000 | 1207 | 1167 | 0.310392696 | |
| 11 | 90,525,000 | 90,675,000 | 1208 | 803 | 1.063150696 | |
| 11 | 90,600,000 | 90,750,000 | 1209 | 518 | 0.786740259 | |
| 11 | 90,675,000 | 90,825,000 | 1210 | 801 | -1.655680474 | |
| 11 | 90,750,000 | 90,900,000 | 1211 | 733 | -2.990476165 | |
| 11 | 90,825,000 | 90,975,000 | 1212 | 392 | -2.741937863 | |
| 11 | 90,900,000 | 91,050,000 | 1213 | 552 | 0.008088139 | |
| 11 | 90,975,000 | 91,125,000 | 1214 | 900 | 0.199485885 | |
| 11 | 91,050,000 | 91,200,000 | 1215 | 878 | 0.152217265 | |
| 11 | 91,125,000 | 91,275,000 | 1216 | 938 | 0.575772367 | |
| 11 | 91,200,000 | 91,350,000 | 1217 | 924 | 0.568483065 | |
| 11 | 91,275,000 | 91,425,000 | 1218 | 626 | 0.523193216 | |
| 11 | 91,350,000 | 91,500,000 | 1219 | 813 | 0.333961784 | |
| 11 | 91,425,000 | 91,575,000 | 1220 | 1076 | 0.826098625 | |
| 11 | 91,500,000 | 91,650,000 | 1221 | 843 | 1.066959321 | |
| 11 | 91,575,000 | 91,725,000 | 1222 | 837 | 0.32276957 | |
| 11 | 91,650,000 | 91,800,000 | 1223 | 1171 | 0.345670853 | |
| 11 | 91,725,000 | 91,875,000 | 1224 | 1021 | 0.516846413 | |
| 11 | 91,800,000 | 91,950,000 | 1225 | 962 | 0.720916774 | |
| 11 | 91,875,000 | 92,025,000 | 1226 | 1034 | 0.432951078 | |
| 11 | 91,950,000 | 92,100,000 | 1227 | 1053 | -0.201657973 | |
| 11 | 92,025,000 | 92,175,000 | 1228 | 1143 | 0.081386712 | |
| 11 | 92,100,000 | 92,250,000 | 1229 | 885 | 0.783858668 | ENSBTAG00000039201 |
| 11 | 92,175,000 | 92,325,000 | 1230 | 579 | -0.287855403 | GGTA1,MGC151949,ENSBTAG00000039201 |
| 11 | 92,250,000 | 92,400,000 | 1231 | 426 | -1.973747087 | GGTA1,MGC151949 |
| 11 | 92,325,000 | 92,475,000 | 1232 | 417 | -0.145524748 | GGTA1 |
| 11 | 92,400,000 | 92,550,000 | 1233 | 515 | -0.124127765 | |
| 11 | 92,475,000 | 92,625,000 | 1234 | 567 | -3.41587249 | DAB2IP |
| 11 | 92,550,000 | 92,700,000 | 1235 | 544 | -3.144771239 | DAB2IP |
| 11 | 92,625,000 | 92,775,000 | 1236 | 717 | 0.111372752 | DAB2IP,TTLL11 |
| 11 | 92,700,000 | 92,850,000 | 1237 | 1017 | 1.159673478 | TTLL11 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 92,775,000 | 92,925,000 | 1238 | 753 | 1.35513295 | TTL11 |
| 11 | 92,850,000 | 93,000,000 | 1239 | 703 | -0.388596804 | TTL11 |
| 11 | 92,925,000 | 93,075,000 | 1240 | 783 | -0.787397052 | LHX6,MORN5,NDUFA8 |
| 11 | 93,000,000 | 93,150,000 | 1241 | 493 | -0.958868816 | LHX6,MORN5,MRRF,NDUFA8,RBM18 |
| 11 | 93,075,000 | 93,225,000 | 1242 | 607 | 0.67402655 | LHX6,MRRF,PTGS1,RBM18 |
| 11 | 93,150,000 | 93,300,000 | 1243 | 729 | 1.330492153 | MRRF,PTGS1,ENSBTAG00000047610,ENSBTAG000000476 93 PTGS1,ENSBTAG00000038309,ENSBTAG00000038796,ENS BTAG00000046018,ENSBTAG00000046137,ENSBTAG0000 0047610,ENSBTAG00000047693 |
| 11 | 93,225,000 | 93,375,000 | 1244 | 481 | 1.052675001 | ENSBTAG00000037739,ENSBTAG00000038278,ENSBTAG0 0000038309,ENSBTAG00000038796,ENSBTAG0000004601 8,ENSBTAG00000046137 |
| 11 | 93,300,000 | 93,450,000 | 1245 | 495 | -1.378267613 | ENSBTAG00000037739,ENSBTAG00000038278,ENSBTAG0 0000039225 |
| 11 | 93,375,000 | 93,525,000 | 1246 | 902 | -3.597954796 | OR1J1,ENSBTAG00000037542,ENSBTAG00000038726,ENS BTAG00000039225 |
| 11 | 93,450,000 | 93,600,000 | 1247 | 874 | -2.39763007 | OR1J1,OR1J2,OR1N1,ENSBTAG00000037542,ENSBTAG000 00038726,ENSBTAG00000046536,ENSBTAG00000047112, ENSBTAG00000047728 |
| 11 | 93,525,000 | 93,675,000 | 1248 | 1070 | 0.763823126 | OR1J2,OR1N1,OR1Q1,ENSBTAG00000020660,ENSBTAG00 000038551,ENSBTAG00000045527,ENSBTAG00000045545 ,ENSBTAG00000046536,ENSBTAG00000047112,ENSBTAG 00000047728 |
| 11 | 93,600,000 | 93,750,000 | 1249 | 1618 | 0.900749088 | OR1L1,OR1L3,OR1Q1,ENSBTAG00000020660,ENSBTAG00 000038551,ENSBTAG00000045527,ENSBTAG00000045528 ,ENSBTAG00000045545 |
| 11 | 93,675,000 | 93,825,000 | 1250 | 2094 | 0.933630806 | OR1L1,OR1L3,ENSBTAG00000037822,ENSBTAG00000038 665,ENSBTAG00000038941,ENSBTAG00000045528 |
| 11 | 93,750,000 | 93,900,000 | 1251 | 2027 | 0.959605642 | OR1K1,OR5C1,ENSBTAG0000004667,ENSBTAG00000030 677,ENSBTAG00000037822,ENSBTAG00000038665,ENSBT AG00000038941 |
| 11 | 93,825,000 | 93,975,000 | 1252 | 1300 | 0.918955434 | OR1K1,OR5C1,PDCL,RC3H2,ENSBTAG0000004667,ENSBT AG00000030677 |
| 11 | 93,900,000 | 94,050,000 | 1253 | 629 | 0.358829837 | PDCL,RABGAP1,RC3H2,ZBTB26,ZBTB6 |
| 11 | 93,975,000 | 94,125,000 | 1254 | 294 | 0.609603455 | GPR21,RABGAP1,RC3H2,ZBTB26,ZBTB6 |
| 11 | 94,050,000 | 94,200,000 | 1255 | 444 | 0.822865434 | GPR21,RABGAP1,ENSBTAG00000024604 |
| 11 | 94,125,000 | 94,275,000 | 1256 | 504 | 0.775240198 | RABGAP1,STRBP,ENSBTAG00000024604 |
| 11 | 94,200,000 | 94,350,000 | 1257 | 374 | 0.697022316 | STRBP,ENSBTAG00000024604 |
| 11 | 94,275,000 | 94,425,000 | 1258 | 285 | 0.703349725 | STRBP,ENSBTAG00000024604 |
| 11 | 94,350,000 | 94,500,000 | 1259 | 475 | 0.648295144 | STRBP |
| 11 | 94,425,000 | 94,575,000 | 1260 | 580 | 0.500151281 | CRB2,DENND1A |
| 11 | 94,500,000 | 94,650,000 | 1261 | 404 | 0.444451768 | CRB2,DENND1A |
| 11 | 94,575,000 | 94,725,000 | 1262 | 488 | -0.470545442 | DENND1A |
| 11 | 94,650,000 | 94,800,000 | 1263 | 547 | -0.083935423 | DENND1A |
| 11 | 94,725,000 | 94,875,000 | 1264 | 382 | 1.069150116 | DENND1A |
| 11 | 94,800,000 | 94,950,000 | 1265 | 305 | 0.625069349 | DENND1A,ENSBTAG00000023860 |
| 11 | 94,875,000 | 95,025,000 | 1266 | 233 | 0.728073864 | DENND1A,ENSBTAG00000023860 |
| 11 | 94,950,000 | 95,100,000 | 1267 | 231 | 0.675465954 | DENND1A |
| 11 | 95,025,000 | 95,175,000 | 1268 | 222 | 0.401204251 | DENND1A,LHX2 |
| 11 | 95,100,000 | 95,250,000 | 1269 | 493 | -0.525823284 | LHX2 |
| 11 | 95,175,000 | 95,325,000 | 1270 | 640 | -0.566450992 | NEK6 |
| 11 | 95,250,000 | 95,400,000 | 1271 | 463 | 0.312333261 | NEK6 |
| 11 | 95,325,000 | 95,475,000 | 1272 | 515 | 0.042703051 | NEK6,PSMB7 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 95,400,000 | 95,550,000 | 1273 | 734 | -1.493313079 | GPR144,NEK6,NR5A1,PSMB7 |
| 11 | 95,475,000 | 95,625,000 | 1274 | 591 | -1.622898397 | GPR144,NR5A1,NR6A1 |
| 11 | 95,550,000 | 95,700,000 | 1275 | 273 | 0.462606731 | NR6A1 |
| 11 | 95,625,000 | 95,775,000 | 1276 | 287 | 1.284074269 | |
| 11 | 95,700,000 | 95,850,000 | 1277 | 382 | 1.118510142 | OLFML2A,WDR38 |
| 11 | 95,775,000 | 95,925,000 | 1278 | 335 | 0.19577092 | ARPC5L,GOLGA1,OLFML2A,RPL35,WDR38 |
| 11 | 95,850,000 | 96,000,000 | 1279 | 191 | -1.496749668 | ARPC5L,GOLGA1,RPL35,SCAI,WDR38 |
| 11 | 95,925,000 | 96,075,000 | 1280 | 278 | -2.791494179 | PPP6C,SCAI |
| 11 | 96,000,000 | 96,150,000 | 1281 | 423 | -1.320328329 | GAPVD1,GRP78,PPP6C,RABEPK |
| 11 | 96,075,000 | 96,225,000 | 1282 | 381 | -0.055104587 | GAPVD1,GRP78,PPP6C,RABEPK |
| 11 | 96,150,000 | 96,300,000 | 1283 | 403 | 0.39709376 | GAPVD1,MAPKAP1 |
| 11 | 96,225,000 | 96,375,000 | 1284 | 385 | 0.179111934 | MAPKAP1 |
| 11 | 96,300,000 | 96,450,000 | 1285 | 286 | -0.403215803 | MAPKAP1 |
| 11 | 96,375,000 | 96,525,000 | 1286 | 261 | -0.742709821 | MAPKAP1 |
| 11 | 96,450,000 | 96,600,000 | 1287 | 197 | -1.300348835 | MAPKAP1 |
| 11 | 96,525,000 | 96,675,000 | 1288 | 151 | -1.338246668 | |
| 11 | 96,600,000 | 96,750,000 | 1289 | 248 | -0.013009099 | PBX3 |
| 11 | 96,675,000 | 96,825,000 | 1290 | 469 | 0.181646954 | PBX3 |
| 11 | 96,750,000 | 96,900,000 | 1291 | 619 | 0.407353026 | PBX3 |
| 11 | 96,825,000 | 96,975,000 | 1292 | 422 | 0.3733171 | |
| 11 | 96,900,000 | 97,050,000 | 1293 | 364 | -2.823021195 | |
| 11 | 96,975,000 | 97,125,000 | 1294 | 953 | -0.186525563 | |
| 11 | 97,050,000 | 97,200,000 | 1295 | 1160 | 0.763347432 | |
| 11 | 97,125,000 | 97,275,000 | 1296 | 800 | 0.657112896 | |
| 11 | 97,200,000 | 97,350,000 | 1297 | 603 | 0.669535036 | |
| 11 | 97,275,000 | 97,425,000 | 1298 | 444 | 0.197281239 | |
| 11 | 97,350,000 | 97,500,000 | 1299 | 363 | 0.06084133 | LMX1B |
| 11 | 97,425,000 | 97,575,000 | 1300 | 465 | 0.397643162 | LMX1B |
| 11 | 97,500,000 | 97,650,000 | 1301 | 456 | -0.846315551 | ZNF297B |
| 11 | 97,575,000 | 97,725,000 | 1302 | 401 | -1.671249416 | RALGPS1,ZBTB34,ZNF297B |
| 11 | 97,650,000 | 97,800,000 | 1303 | 357 | -0.847809378 | RALGPS1,ZBTB34 |
| 11 | 97,725,000 | 97,875,000 | 1304 | 497 | -0.131676747 | ANGPTL2,RALGPS1 |
| 11 | 97,800,000 | 97,950,000 | 1305 | 633 | -0.778960677 | ANGPTL2,RALGPS1 |
| 11 | 97,875,000 | 98,025,000 | 1306 | 657 | -1.100226535 | GARNL3,RALGPS1 |
| 11 | 97,950,000 | 98,100,000 | 1307 | 623 | -0.619493918 | GARNL3,RALGPS1 |
| 11 | 98,025,000 | 98,175,000 | 1308 | 485 | 0.320676321 | GARNL3,SLC2A8,ZNF79 |
| 11 | 98,100,000 | 98,250,000 | 1309 | 414 | 0.727144387 | FAM129B,GARNL3,LRSAM1,RPL12,SLC2A8,ZNF79 |
| 11 | 98,175,000 | 98,325,000 | 1310 | 399 | 0.316943786 | FAM129B,LRSAM1,RPL12,ZNF79 |
| 11 | 98,250,000 | 98,400,000 | 1311 | 452 | -0.373509955 | CYCS,FAM129B,STXBP1 |
| 11 | 98,325,000 | 98,475,000 | 1312 | 416 | -0.440323178 | C9orf117,CDK9,CYCS,PTRH1,SH2D3C,STXBP1,TOR2A,TTC16 |
| 11 | 98,400,000 | 98,550,000 | 1313 | 350 | 0.990294295 | C9orf117,CDK9,ENG,FPGS,PTRH1,SH2D3C,TOR2A,TTC16,ENSBTAG00000046303 |
| 11 | 98,475,000 | 98,625,000 | 1314 | 407 | 1.02137425 | AK1,CDK9,DPM2,ENG,FAM102A,FPGS,PIP5KL1,SIAT7B,ST6GALNAC6,ENSBTAG00000046303 |
| 11 | 98,550,000 | 98,700,000 | 1315 | 504 | 1.174273226 | AK1,DPM2,FAM102A,PIP5KL1,SIAT7B,ST6GALNAC6 |
| 11 | 98,625,000 | 98,775,000 | 1316 | 586 | 1.021036894 | FAM102A,NAIF1,PTGES2,SLC25A25 |
| 11 | 98,700,000 | 98,850,000 | 1317 | 686 | 0.57800198 | C11H9orf16,CIZ1,DNM1,LCN2,NAIF1,PTGES2,SLC25A25 |
| 11 | 98,775,000 | 98,925,000 | 1318 | 492 | 0.510034643 | C11H9orf16,CIZ1,DNM1,LCN2,PTGES2,SWI5,TRUB2,ENSBTAG00000011317 |
| 11 | 98,850,000 | 99,000,000 | 1319 | 432 | 0.814204207 | COQ4,DNM1,SLC27A4,SWI5,TRUB2,URM1,ENSBTAG00000011317 |
| 11 | 98,925,000 | 99,075,000 | 1320 | 494 | 0.902004088 | CERCAM,COQ4,ODF2,SLC27A4,TRUB2,URM1 |

| | | | | | | |
|----|-------------|-------------|------|-----|--------------|---|
| 11 | 99,000,000 | 99,150,000 | 1321 | 410 | 1.131867963 | CERCAM,GLE1,ODF2,SPTAN1 |
| 11 | 99,075,000 | 99,225,000 | 1322 | 396 | 0.514253556 | GLE1,SET,SPTAN1,WDR34 |
| 11 | 99,150,000 | 99,300,000 | 1323 | 321 | 0.125404128 | PKN3,SET,SPTAN1,TBC1D13,WDR34,ZDHHC12,ZER1 |
| 11 | 99,225,000 | 99,375,000 | 1324 | 314 | 0.733189599 | C9orf114,CCBL1,ENDOG,PKN3,SET,TBC1D13,ZDHHC12,ZER1,ENSBTAG00000036099 |
| 11 | 99,300,000 | 99,450,000 | 1325 | 453 | -0.497519768 | C9orf114,CCBL1,ENDOG,LLRC8A,PHYHD1,TBC1D13,ENSBTAG00000036099 |
| 11 | 99,375,000 | 99,525,000 | 1326 | 469 | -1.57440713 | CCBL1,DOLK,LLRC8A,NUP188,PHYHD1,SH3GLB2 |
| 11 | 99,450,000 | 99,600,000 | 1327 | 348 | -0.637016798 | DOLK,DOLPP1,FAM73B,MGC142781,NUP188,PHYHD1,PPP2R4,SH3GLB2 |
| 11 | 99,525,000 | 99,675,000 | 1328 | 291 | 0.156822712 | DOLPP1,FAM73B,IER5L,MGC142781,PPP2R4 |
| 11 | 99,600,000 | 99,750,000 | 1329 | 371 | -0.274279585 | IER5L,PPP2R4 |
| 11 | 99,675,000 | 99,825,000 | 1330 | 432 | -2.759816715 | |
| 11 | 99,750,000 | 99,900,000 | 1331 | 399 | -2.328362222 | |
| 11 | 99,825,000 | 99,975,000 | 1332 | 568 | 0.743545792 | |
| 11 | 99,900,000 | 100,050,000 | 1333 | 627 | 0.194894105 | C9orf50,NTMT1 |
| 11 | 99,975,000 | 100,125,000 | 1334 | 394 | -0.915890046 | ASB6,C9orf50,NTMT1,PRRX2,ENSBTAG00000038183 |
| 11 | 100,050,000 | 100,200,000 | 1335 | 447 | 0.073930964 | ASB6,PRRX2,PTGES,ENSBTAG00000038183 |
| 11 | 100,125,000 | 100,275,000 | 1336 | 598 | 0.497968339 | C11H9ORF78,PRRX2,PTGES,TOR1A,TOR1B,USP20,ENSBTAG00000047907 |
| 11 | 100,200,000 | 100,350,000 | 1337 | 749 | 0.744514654 | C11H9ORF78,FNBP1,TOR1A,TOR1B,USP20,ENSBTAG00000047907 |
| 11 | 100,275,000 | 100,425,000 | 1338 | 857 | 0.76632888 | FNBP1,USP20 |
| 11 | 100,350,000 | 100,500,000 | 1339 | 855 | 0.279671832 | FNBP1,GPR107 |
| 11 | 100,425,000 | 100,575,000 | 1340 | 736 | -0.365547726 | GPR107,NCS1 |
| 11 | 100,500,000 | 100,650,000 | 1341 | 459 | 0.048836998 | HMCN2,NCS1 |
| 11 | 100,575,000 | 100,725,000 | 1342 | 570 | 0.690680141 | HMCN2 |
| 11 | 100,650,000 | 100,800,000 | 1343 | 556 | 0.847716543 | ASS1,HMCN2 |
| 11 | 100,725,000 | 100,875,000 | 1344 | 398 | 0.226787535 | ASS1,HMCN2 |
| 11 | 100,800,000 | 100,950,000 | 1345 | 782 | 0.329223634 | ASS1,FUBP3 |
| 11 | 100,875,000 | 101,025,000 | 1346 | 715 | 0.421347125 | EXOSC2,FUBP3,PRDM12 |
| 11 | 100,950,000 | 101,100,000 | 1347 | 530 | 0.960127957 | EXOSC2,FUBP3,PRDM12 |
| 11 | 101,025,000 | 101,175,000 | 1348 | 653 | -0.406648529 | ABL1,FIBCD1,QRFP |
| 11 | 101,100,000 | 101,250,000 | 1349 | 593 | -3.071612232 | ABL1,FIBCD1,LAMC3,QRFP |
| 11 | 101,175,000 | 101,325,000 | 1350 | 707 | -0.48886302 | FIBCD1,LAMC3 |
| 11 | 101,250,000 | 101,400,000 | 1351 | 517 | 0.806633657 | AIF1L,LAMC3,NUP214 |
| 11 | 101,325,000 | 101,475,000 | 1352 | 379 | 0.890339554 | AIF1L,NUP214 |
| 11 | 101,400,000 | 101,550,000 | 1353 | 502 | 0.313370522 | C9ORF59,NUP214,PPAPDC3 |
| 11 | 101,475,000 | 101,625,000 | 1354 | 461 | 0.176241749 | C9ORF59,PPAPDC3,PRRC2B |
| 11 | 101,550,000 | 101,700,000 | 1355 | 509 | 0.561649779 | POMT1,PRRC2B,UCK1 |
| 11 | 101,625,000 | 101,775,000 | 1356 | 820 | 0.835149146 | POMT1,PRRC2B,RAPGEF1,UCK1 |
| 11 | 101,700,000 | 101,850,000 | 1357 | 971 | -0.35414209 | RAPGEF1 |
| 11 | 101,775,000 | 101,925,000 | 1358 | 852 | -1.191818013 | RAPGEF1 |
| 11 | 101,850,000 | 102,000,000 | 1359 | 690 | -0.28237672 | MED27 |
| 11 | 101,925,000 | 102,075,000 | 1360 | 640 | 0.326509677 | MED27 |
| 11 | 102,000,000 | 102,150,000 | 1361 | 508 | -0.456640546 | MED27 |
| 11 | 102,075,000 | 102,225,000 | 1362 | 561 | -1.417042325 | MED27 |
| 11 | 102,150,000 | 102,300,000 | 1363 | 694 | -0.942828608 | MED27,NTNG2 |
| 11 | 102,225,000 | 102,375,000 | 1364 | 669 | -0.099367956 | NTNG2,SETX |
| 11 | 102,300,000 | 102,450,000 | 1365 | 646 | 0.479515007 | NTNG2,SETX |
| 11 | 102,375,000 | 102,525,000 | 1366 | 775 | 0.913927485 | C9orf171,SETX,TTF1,ENSBTAG00000023697 |
| 11 | 102,450,000 | 102,600,000 | 1367 | 811 | 1.239960434 | C9orf171,SETX,TTF1,ENSBTAG00000023697 |
| 11 | 102,525,000 | 102,675,000 | 1368 | 741 | 0.871919853 | C9orf171 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--|
| 11 | 102,600,000 | 102,750,000 | 1369 | 602 | 0.133115546 | BARHL1,C9orf171,DDX31 |
| 11 | 102,675,000 | 102,825,000 | 1370 | 293 | -0.236055968 | AK8,BARHL1,DDX31,GTF3C4 |
| 11 | 102,750,000 | 102,900,000 | 1371 | 483 | -0.922622922 | AK8,DDX31,GTF3C4 |
| 11 | 102,825,000 | 102,975,000 | 1372 | 701 | -0.019732813 | AK8,C11H9ORF9,TSC1 |
| 11 | 102,900,000 | 103,050,000 | 1373 | 557 | 0.715965601 | AK8,C11H9ORF9,GFI1B,TSC1 |
| 11 | 102,975,000 | 103,125,000 | 1374 | 494 | 0.714590271 | CEL,GFI1B,GTF3C5,TSC1 |
| 11 | 103,050,000 | 103,200,000 | 1375 | 717 | -1.511158259 | CEL,GBGT1,GFI1B,GTF3C5,RALGDS,TSC1 |
| 11 | 103,125,000 | 103,275,000 | 1376 | 977 | -1.492522596 | GBGT1,RALGDS,ENSBTAG00000000893 |
| 11 | 103,200,000 | 103,350,000 | 1377 | 1096 | -0.123341128 | GLT6D1,LCN9,LGB,SOHLH1,ENSBTAG00000000893,ENSBTAG000000048091 |
| 11 | 103,275,000 | 103,425,000 | 1378 | 842 | 0.016223968 | GLT6D1,KCNT1,LCN9,LGB,SOHLH1,ENSBTAG000000048091 |
| 11 | 103,350,000 | 103,500,000 | 1379 | 490 | 0.582850683 | CAMSAP1,KCNT1,SOHLH1 |
| 11 | 103,425,000 | 103,575,000 | 1380 | 327 | 0.851879243 | CAMSAP1,KCNT1,NACC2,UBAC1 |
| 11 | 103,500,000 | 103,650,000 | 1381 | 475 | 0.24877759 | NACC2,UBAC1 |
| 11 | 103,575,000 | 103,725,000 | 1382 | 499 | 0.002027689 | C9orf69,NACC2 |
| 11 | 103,650,000 | 103,800,000 | 1383 | 499 | 0.812446653 | C9orf69,LHX3,QSOX2 |
| 11 | 103,725,000 | 103,875,000 | 1384 | 532 | 0.93240125 | DNLZ,GPSM1,LHX3,QSOX2,ENSBTAG00000023064 |
| 11 | 103,800,000 | 103,950,000 | 1385 | 354 | -1.091808842 | CARD9,DNLZ,GPSM1,INPP5E,PMPCA,SDCCAG3,SEC16A,SNAPC4,ENSBTAG00000023064 |
| 11 | 103,875,000 | 104,025,000 | 1386 | 350 | -1.487320442 | CARD9,DNLZ,INPP5E,NOTCH1,PMPCA,SDCCAG3,SEC16A,SNAPC4 |
| 11 | 103,950,000 | 104,100,000 | 1387 | 324 | 0.364638041 | NOTCH1,SEC16A |
| 11 | 104,025,000 | 104,175,000 | 1388 | 384 | 0.216591079 | AGPAT2,EGFL7,NOTCH1 |
| 11 | 104,100,000 | 104,250,000 | 1389 | 1136 | 0.585877397 | ABO,AGPAT2,EGFL7,FAM69B |
| 11 | 104,175,000 | 104,325,000 | 1390 | 1453 | 0.726292863 | ABO,FAM69B,MED22,RPL7A,SURF1,SURF2,SURF6 |
| 11 | 104,250,000 | 104,400,000 | 1391 | 888 | 0.553846949 | ABO,ADAMTS13,MED22,REXO4,RPL7A,STKLD1,SURF1,SURF2,SURF6 |
| 11 | 104,325,000 | 104,475,000 | 1392 | 604 | 0.236905321 | ADAMTS13,ADAMTSL2,MGC139698,REXO4,SLC2A6,STKLD1,SURF1,TMEM8C |
| 11 | 104,400,000 | 104,550,000 | 1393 | 736 | 0.620993428 | ADAMTS13,ADAMTSL2,FAM163B,MGC139698,SLC2A6,TMEM8C |
| 11 | 104,475,000 | 104,625,000 | 1394 | 1190 | 0.75529871 | ADAMTSL2,DBH,FAM163B,SARDH |
| 11 | 104,550,000 | 104,700,000 | 1395 | 1357 | 0.484662951 | DBH,SARDH,VAV2 |
| 11 | 104,625,000 | 104,775,000 | 1396 | 1369 | -1.109438622 | SARDH,VAV2 |
| 11 | 104,700,000 | 104,850,000 | 1397 | 1100 | -1.409995351 | |
| 11 | 104,775,000 | 104,925,000 | 1398 | 499 | -0.388663327 | BRD3 |
| 11 | 104,850,000 | 105,000,000 | 1399 | 442 | 0.331583393 | BRD3,WDR5 |
| 11 | 104,925,000 | 105,075,000 | 1400 | 639 | 0.441102728 | WDR5 |
| 11 | 105,000,000 | 105,150,000 | 1401 | 761 | 0.405019144 | ENSBTAG00000008308 |
| 11 | 105,075,000 | 105,225,000 | 1402 | 732 | 0.46769137 | CACNA1B,ENSBTAG00000008308 |
| 11 | 105,150,000 | 105,300,000 | 1403 | 478 | 0.371146216 | CACNA1B |
| 11 | 105,225,000 | 105,375,000 | 1404 | 523 | 0.353281776 | CACNA1B |
| 11 | 105,300,000 | 105,450,000 | 1405 | 799 | 0.086278718 | CACNA1B,EHMT1 |
| 11 | 105,375,000 | 105,525,000 | 1406 | 695 | -0.774226706 | CACNA1B,EHMT1 |
| 11 | 105,450,000 | 105,600,000 | 1407 | 519 | -0.594520286 | ARRDC1,DPH7,EHMT1,MRPL41,PNPLA7,ZMYND19 |
| 11 | 105,525,000 | 105,675,000 | 1408 | 464 | 0.274948964 | ARRDC1,DPH7,MRPL41,NSMF,PNPLA7,ZMYND19 |
| 11 | 105,600,000 | 105,750,000 | 1409 | 537 | 0.724712444 | ENTPD8,EXD3,NOXA1,NSMF,PNPLA7 |
| 11 | 105,675,000 | 105,825,000 | 1410 | 557 | 0.387238759 | ENTPD8,EXD3,NOXA1,NRARP,NSMF |
| 11 | 105,750,000 | 105,900,000 | 1411 | 343 | -0.371465319 | COBRA1,CYSRT1,EXD3,FAM166A,NDOR1,NRARP,RNF208,RNF224,SLC34A3,TMEM203,TOR4A,TPRN,TUBB4B |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--|
| 11 | 105,825,000 | 105,975,000 | 1412 | 289 | -0.540076311 | COBRA1,CYSRT1,FAM166A,GRIN1,LRRC26,NDOR1,RNF208,RNF224,SLC34A3,SSNA1,TMEM203,TMEM210,TOR4A,TPRN,TUBB4B,ENSBTAG00000046223,ENSBTAG00000046416 |
| 11 | 105,900,000 | 106,050,000 | 1413 | 394 | 0.465324204 | GRIN1,LRRC26,RXRA,SSNA1,TMEM210,TPRN,ENSBTAG0000046223,ENSBTAG00000046416 |
| 11 | 105,975,000 | 106,125,000 | 1414 | 751 | 0.459885988 | RXRA |
| 11 | 106,050,000 | 106,200,000 | 1415 | 811 | 0.166914681 | ENTPD2,MAN1B1,NPDC1,SAPCD2,UAP1L1 |
| 11 | 106,125,000 | 106,275,000 | 1416 | 608 | -0.15278839 | ABCA2,C11H9ORF142,CLIC3,ENTPD2,FUT7,LCNL1,MAN1B1,NPDC1,PTGDS,SAPCD2,UAP1L1 |
| 11 | 106,200,000 | 106,350,000 | 1417 | 662 | -0.282184401 | ABCA2,C11H9ORF142,C8G,C9orf172,CLIC3,EDF1,FBXW5,FUT7,LCNL1,LCNL1,MAMDC4,PHPT1,PTGDS,RABL6,TRAF2C8G,C9orf172,EDF1,FBXW5,KIAA1984,LCN10,LCN12,LCN15,LCN8,MAMDC4,PHPT1,RABL6,TMEM141,TRAF2,ENSBTAG0000016148,ENSBTAG00000047297 |
| 11 | 106,275,000 | 106,425,000 | 1418 | 1142 | 0.470704931 | C9orf116,KIAA1984,LCN1,LCN10,LCN15,LCN8,MRPS2,PPP1R26,RABL6,TMEM141,ENSBTAG00000016148,ENSBTAG0000038440,ENSBTAG00000047297 |
| 11 | 106,350,000 | 106,500,000 | 1419 | 1798 | 0.461952006 | C9orf116,LCN1,MRPS2,PPP1R26,ENSBTAG00000038440 |
| 11 | 106,425,000 | 106,575,000 | 1420 | 1925 | -0.685809369 | |
| 11 | 106,500,000 | 106,650,000 | 1421 | 1652 | -0.976092759 | |
| 11 | 106,575,000 | 106,725,000 | 1422 | 1324 | -0.060700246 | OLFM1 |
| 11 | 106,650,000 | 106,800,000 | 1423 | 1516 | -1.311408436 | OLFM1 |
| 11 | 106,725,000 | 106,875,000 | 1424 | 1495 | -1.037362057 | COL5A1,FCN2 |
| 11 | 106,800,000 | 106,950,000 | 1425 | 1005 | 0.016612058 | COL5A1,FCN2 |
| 11 | 106,875,000 | 107,025,000 | 1426 | 889 | 0.409365946 | COL5A1 |
| 11 | 106,950,000 | 107,100,000 | 1427 | 916 | 0.731495929 | COL5A1 |
| 11 | 107,025,000 | 107,175,000 | 1428 | 858 | 0.573577663 | BET1L,ODF3,RIC8A,SIRT3,ENSBTAG00000022142 |
| 11 | 107,100,000 | 107,250,000 | 1429 | 953 | 0.513354608 | ATHL1,BET1L,COX8B,IFITM2,IFITM5,NLRP6,ODF3,PSMD13,RIC8A,SIRT3,ENSBTAG00000022142 |
| 11 | 107,175,000 | 107,310,763 | 1430 | 838 | -0.962405007 | ATHL1,COX8B,IFITM2,IFITM5,NLRP6,PSMD13,SIRT3,ENSBTAG00000019018 |
| 12 | 0 | 150,000 | 1 | 400 | -2.940155594 | |
| 12 | 75,000 | 225,000 | 2 | 270 | -3.351452788 | |
| 12 | 150,000 | 300,000 | 3 | 233 | -2.797652892 | |
| 12 | 225,000 | 375,000 | 4 | 221 | -1.315831791 | |
| 12 | 300,000 | 450,000 | 5 | 483 | 0.720312774 | PCDH20 |
| 12 | 375,000 | 525,000 | 6 | 777 | 0.758143172 | PCDH20 |
| 12 | 450,000 | 600,000 | 7 | 774 | -0.397972563 | |
| 12 | 525,000 | 675,000 | 8 | 1030 | -1.408807927 | |
| 12 | 600,000 | 750,000 | 9 | 1658 | -0.4843534 | ENSBTAG00000035926 |
| 12 | 675,000 | 825,000 | 10 | 1769 | -0.812673944 | ENSBTAG00000035926 |
| 12 | 750,000 | 900,000 | 11 | 1355 | -1.763822407 | |
| 12 | 825,000 | 975,000 | 12 | 1253 | -1.525458015 | |
| 12 | 900,000 | 1,050,000 | 13 | 1126 | -0.576467341 | |
| 12 | 975,000 | 1,125,000 | 14 | 677 | 0.581903972 | |
| 12 | 1,050,000 | 1,200,000 | 15 | 471 | 0.71260721 | |
| 12 | 1,125,000 | 1,275,000 | 16 | 1060 | 0.758555403 | |
| 12 | 1,200,000 | 1,350,000 | 17 | 1264 | 0.482607903 | |
| 12 | 1,275,000 | 1,425,000 | 18 | 1192 | -1.484394525 | |
| 12 | 1,350,000 | 1,500,000 | 19 | 1377 | -1.643858418 | |
| 12 | 1,425,000 | 1,575,000 | 20 | 1276 | -0.265406726 | TDRD3 |
| 12 | 1,500,000 | 1,650,000 | 21 | 1185 | 0.076590526 | TDRD3 |
| 12 | 1,575,000 | 1,725,000 | 22 | 1062 | -0.125447652 | TDRD3 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------|
| 12 | 1,650,000 | 1,800,000 | 23 | 1105 | 0.724974093 | TDRD3 |
| 12 | 1,725,000 | 1,875,000 | 24 | 1411 | 0.989518979 | TDRD3 |
| 12 | 1,800,000 | 1,950,000 | 25 | 1257 | 0.793082341 | |
| 12 | 1,875,000 | 2,025,000 | 26 | 747 | 0.608354982 | |
| 12 | 1,950,000 | 2,100,000 | 27 | 542 | 0.779466187 | ENSBTAG00000026861 |
| 12 | 2,025,000 | 2,175,000 | 28 | 568 | -1.287043863 | DIAPH3,ENSBTAG00000026861 |
| 12 | 2,100,000 | 2,250,000 | 29 | 1040 | -0.244134367 | DIAPH3 |
| 12 | 2,175,000 | 2,325,000 | 30 | 1149 | -0.387802466 | DIAPH3 |
| 12 | 2,250,000 | 2,400,000 | 31 | 752 | -0.855264556 | DIAPH3 |
| 12 | 2,325,000 | 2,475,000 | 32 | 745 | -0.464969485 | DIAPH3 |
| 12 | 2,400,000 | 2,550,000 | 33 | 632 | -1.228280454 | DIAPH3 |
| 12 | 2,475,000 | 2,625,000 | 34 | 791 | 0.538491154 | DIAPH3 |
| 12 | 2,550,000 | 2,700,000 | 35 | 1111 | 0.929497226 | DIAPH3 |
| 12 | 2,625,000 | 2,775,000 | 36 | 956 | 0.867906728 | DIAPH3 |
| 12 | 2,700,000 | 2,850,000 | 37 | 625 | 0.051608036 | |
| 12 | 2,775,000 | 2,925,000 | 38 | 879 | -0.31026414 | |
| 12 | 2,850,000 | 3,000,000 | 39 | 1033 | 0.316765689 | |
| 12 | 2,925,000 | 3,075,000 | 40 | 837 | 0.468234421 | |
| 12 | 3,000,000 | 3,150,000 | 41 | 1245 | -0.170673453 | |
| 12 | 3,075,000 | 3,225,000 | 42 | 1234 | -0.216770342 | |
| 12 | 3,150,000 | 3,300,000 | 43 | 988 | -0.053270333 | |
| 12 | 3,225,000 | 3,375,000 | 44 | 1012 | 0.439551555 | |
| 12 | 3,300,000 | 3,450,000 | 45 | 994 | 0.82262994 | |
| 12 | 3,375,000 | 3,525,000 | 46 | 952 | 0.249782243 | |
| 12 | 3,450,000 | 3,600,000 | 47 | 951 | 0.24441352 | |
| 12 | 3,525,000 | 3,675,000 | 48 | 832 | 0.177238224 | |
| 12 | 3,600,000 | 3,750,000 | 49 | 715 | -1.502080734 | |
| 12 | 3,675,000 | 3,825,000 | 50 | 794 | -0.91585703 | |
| 12 | 3,750,000 | 3,900,000 | 51 | 882 | 0.195544565 | |
| 12 | 3,825,000 | 3,975,000 | 52 | 694 | 0.063637255 | |
| 12 | 3,900,000 | 4,050,000 | 53 | 899 | 0.994170825 | |
| 12 | 3,975,000 | 4,125,000 | 54 | 988 | 1.063116347 | |
| 12 | 4,050,000 | 4,200,000 | 55 | 782 | 0.689407845 | |
| 12 | 4,125,000 | 4,275,000 | 56 | 816 | 0.271997346 | |
| 12 | 4,200,000 | 4,350,000 | 57 | 708 | 0.085497869 | |
| 12 | 4,275,000 | 4,425,000 | 58 | 699 | 0.43881154 | |
| 12 | 4,350,000 | 4,500,000 | 59 | 1335 | 0.453586504 | |
| 12 | 4,425,000 | 4,575,000 | 60 | 1322 | 0.15741576 | |
| 12 | 4,500,000 | 4,650,000 | 61 | 749 | -0.36894657 | |
| 12 | 4,575,000 | 4,725,000 | 62 | 790 | 0.253491438 | |
| 12 | 4,650,000 | 4,800,000 | 63 | 985 | 1.026342064 | |
| 12 | 4,725,000 | 4,875,000 | 64 | 1443 | 0.660820137 | |
| 12 | 4,800,000 | 4,950,000 | 65 | 1501 | 0.221905203 | |
| 12 | 4,875,000 | 5,025,000 | 66 | 1229 | 0.510665881 | |
| 12 | 4,950,000 | 5,100,000 | 67 | 995 | -0.262737493 | PCDH17 |
| 12 | 5,025,000 | 5,175,000 | 68 | 940 | -0.256775559 | PCDH17 |
| 12 | 5,100,000 | 5,250,000 | 69 | 1035 | -0.225950633 | PCDH17 |
| 12 | 5,175,000 | 5,325,000 | 70 | 1101 | 0.240040363 | PCDH17 |
| 12 | 5,250,000 | 5,400,000 | 71 | 1272 | 0.239463296 | |
| 12 | 5,325,000 | 5,475,000 | 72 | 1387 | 0.062226699 | |
| 12 | 5,400,000 | 5,550,000 | 73 | 1539 | 0.992562165 | |
| 12 | 5,475,000 | 5,625,000 | 74 | 1507 | 1.20078363 | |
| 12 | 5,550,000 | 5,700,000 | 75 | 1475 | 1.145606351 | |

| | | | | | |
|----|-----------|-----------|-----|------|--------------|
| 12 | 5,625,000 | 5,775,000 | 76 | 1557 | 1.008971479 |
| 12 | 5,700,000 | 5,850,000 | 77 | 1771 | -1.851370623 |
| 12 | 5,775,000 | 5,925,000 | 78 | 1550 | -3.532152468 |
| 12 | 5,850,000 | 6,000,000 | 79 | 1134 | -1.639446567 |
| 12 | 5,925,000 | 6,075,000 | 80 | 927 | 1.233932773 |
| 12 | 6,000,000 | 6,150,000 | 81 | 1087 | 1.033837906 |
| 12 | 6,075,000 | 6,225,000 | 82 | 1480 | 0.487415692 |
| 12 | 6,150,000 | 6,300,000 | 83 | 1135 | 0.237871947 |
| 12 | 6,225,000 | 6,375,000 | 84 | 1052 | 0.847400016 |
| 12 | 6,300,000 | 6,450,000 | 85 | 1035 | 1.107771139 |
| 12 | 6,375,000 | 6,525,000 | 86 | 1626 | 1.089222991 |
| 12 | 6,450,000 | 6,600,000 | 87 | 1619 | 0.832508396 |
| 12 | 6,525,000 | 6,675,000 | 88 | 1108 | -1.24181663 |
| 12 | 6,600,000 | 6,750,000 | 89 | 1301 | -1.275496649 |
| 12 | 6,675,000 | 6,825,000 | 90 | 1769 | 0.262894106 |
| 12 | 6,750,000 | 6,900,000 | 91 | 2344 | 0.473576146 |
| 12 | 6,825,000 | 6,975,000 | 92 | 1988 | 0.670049808 |
| 12 | 6,900,000 | 7,050,000 | 93 | 1188 | 0.992232702 |
| 12 | 6,975,000 | 7,125,000 | 94 | 918 | 0.720995973 |
| 12 | 7,050,000 | 7,200,000 | 95 | 922 | -0.113040768 |
| 12 | 7,125,000 | 7,275,000 | 96 | 854 | -1.449894586 |
| 12 | 7,200,000 | 7,350,000 | 97 | 1183 | -0.718333522 |
| 12 | 7,275,000 | 7,425,000 | 98 | 1008 | 0.305606297 |
| 12 | 7,350,000 | 7,500,000 | 99 | 633 | 1.046996665 |
| 12 | 7,425,000 | 7,575,000 | 100 | 1155 | 1.131266226 |
| 12 | 7,500,000 | 7,650,000 | 101 | 1533 | 1.116642955 |
| 12 | 7,575,000 | 7,725,000 | 102 | 1328 | 0.692713224 |
| 12 | 7,650,000 | 7,800,000 | 103 | 1439 | 0.399364753 |
| 12 | 7,725,000 | 7,875,000 | 104 | 1746 | 0.643076448 |
| 12 | 7,800,000 | 7,950,000 | 105 | 1777 | 0.697376218 |
| 12 | 7,875,000 | 8,025,000 | 106 | 1878 | -0.237356619 |
| 12 | 7,950,000 | 8,100,000 | 107 | 2088 | -0.023443466 |
| 12 | 8,025,000 | 8,175,000 | 108 | 1953 | 0.647437506 |
| 12 | 8,100,000 | 8,250,000 | 109 | 1795 | 0.451541789 |
| 12 | 8,175,000 | 8,325,000 | 110 | 1667 | 0.124035743 |
| 12 | 8,250,000 | 8,400,000 | 111 | 2020 | 0.862795779 |
| 12 | 8,325,000 | 8,475,000 | 112 | 2241 | 1.003961177 |
| 12 | 8,400,000 | 8,550,000 | 113 | 1595 | 0.657152047 |
| 12 | 8,475,000 | 8,625,000 | 114 | 1815 | 0.690023643 |
| 12 | 8,550,000 | 8,700,000 | 115 | 2276 | 0.667983772 |
| 12 | 8,625,000 | 8,775,000 | 116 | 2166 | 0.702492011 |
| 12 | 8,700,000 | 8,850,000 | 117 | 1954 | 0.753700894 |
| 12 | 8,775,000 | 8,925,000 | 118 | 1749 | 0.473819885 |
| 12 | 8,850,000 | 9,000,000 | 119 | 1777 | 0.39428344 |
| 12 | 8,925,000 | 9,075,000 | 120 | 1601 | 0.532962333 |
| 12 | 9,000,000 | 9,150,000 | 121 | 1478 | 0.636223306 |
| 12 | 9,075,000 | 9,225,000 | 122 | 1541 | 0.293545354 |
| 12 | 9,150,000 | 9,300,000 | 123 | 993 | 0.164658135 |
| 12 | 9,225,000 | 9,375,000 | 124 | 848 | 0.427079909 |
| 12 | 9,300,000 | 9,450,000 | 125 | 1122 | 0.560358866 |
| 12 | 9,375,000 | 9,525,000 | 126 | 1334 | 0.353364452 |
| 12 | 9,450,000 | 9,600,000 | 127 | 1318 | -0.394380693 |
| 12 | 9,525,000 | 9,675,000 | 128 | 1064 | -0.275351486 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 12 | 9,600,000 | 9,750,000 | 129 | 1199 | 0.545506016 | |
| 12 | 9,675,000 | 9,825,000 | 130 | 1207 | 0.05154891 | |
| 12 | 9,750,000 | 9,900,000 | 131 | 1291 | 0.224445381 | |
| 12 | 9,825,000 | 9,975,000 | 132 | 1390 | -0.14102164 | |
| 12 | 9,900,000 | 10,050,000 | 133 | 1590 | -0.684939735 | |
| 12 | 9,975,000 | 10,125,000 | 134 | 1734 | -0.388032384 | |
| 12 | 10,050,000 | 10,200,000 | 135 | 1394 | -0.085818114 | |
| 12 | 10,125,000 | 10,275,000 | 136 | 1170 | 0.458842589 | |
| 12 | 10,200,000 | 10,350,000 | 137 | 1462 | -0.300162617 | |
| 12 | 10,275,000 | 10,425,000 | 138 | 1617 | -0.345440409 | |
| 12 | 10,350,000 | 10,500,000 | 139 | 1541 | 0.211124746 | ENSBTAG00000048161 |
| 12 | 10,425,000 | 10,575,000 | 140 | 1489 | 0.561887335 | ENSBTAG00000048161 |
| 12 | 10,500,000 | 10,650,000 | 141 | 1730 | 0.340876014 | ENSBTAG00000048161 |
| 12 | 10,575,000 | 10,725,000 | 142 | 1767 | -0.016946192 | OLFM4 |
| 12 | 10,650,000 | 10,800,000 | 143 | 1661 | -0.013378217 | OLFM4 |
| 12 | 10,725,000 | 10,875,000 | 144 | 1738 | 0.160850161 | |
| 12 | 10,800,000 | 10,950,000 | 145 | 1405 | 0.144618748 | PCDH8 |
| 12 | 10,875,000 | 11,025,000 | 146 | 1243 | -1.019852708 | PCDH8 |
| 12 | 10,950,000 | 11,100,000 | 147 | 1106 | -1.016069584 | LECT1 |
| 12 | 11,025,000 | 11,175,000 | 148 | 836 | -0.519707682 | LECT1,SUGT1 |
| 12 | 11,100,000 | 11,250,000 | 149 | 752 | -0.439087633 | ELF1,LECT1,SUGT1 |
| 12 | 11,175,000 | 11,325,000 | 150 | 547 | -0.949468256 | ELF1,WBP4 |
| 12 | 11,250,000 | 11,400,000 | 151 | 397 | -1.948130033 | ELF1,KBTBD6,WBP4 |
| 12 | 11,325,000 | 11,475,000 | 152 | 507 | -0.593102152 | KBTBD6,MTRF1,WBP4,ENSBTAG00000039823 |
| 12 | 11,400,000 | 11,550,000 | 153 | 435 | -0.32665662 | MTRF1,NAA16,ENSBTAG00000039823 |
| 12 | 11,475,000 | 11,625,000 | 154 | 493 | -2.051491274 | MTRF1,NAA16 |
| 12 | 11,550,000 | 11,700,000 | 155 | 624 | -1.424239319 | MGC148992,NAA16 |
| 12 | 11,625,000 | 11,775,000 | 156 | 678 | 0.727674782 | MGC148992,VWA8 |
| 12 | 11,700,000 | 11,850,000 | 157 | 685 | 0.383923208 | VWA8 |
| 12 | 11,775,000 | 11,925,000 | 158 | 831 | -0.763840458 | VWA8 |
| 12 | 11,850,000 | 12,000,000 | 159 | 1015 | -1.343734311 | VWA8 |
| 12 | 11,925,000 | 12,075,000 | 160 | 710 | -1.215772678 | VWA8 |
| 12 | 12,000,000 | 12,150,000 | 161 | 823 | -0.137258204 | VWA8 |
| 12 | 12,075,000 | 12,225,000 | 162 | 928 | -0.185639674 | |
| 12 | 12,150,000 | 12,300,000 | 163 | 1192 | -0.055153662 | DGKH |
| 12 | 12,225,000 | 12,375,000 | 164 | 1073 | 0.265590359 | DGKH |
| 12 | 12,300,000 | 12,450,000 | 165 | 504 | 0.363132171 | DGKH |
| 12 | 12,375,000 | 12,525,000 | 166 | 524 | -1.408951971 | AKAP11,DGKH |
| 12 | 12,450,000 | 12,600,000 | 167 | 704 | -1.806053947 | AKAP11 |
| 12 | 12,525,000 | 12,675,000 | 168 | 741 | -1.491902932 | |
| 12 | 12,600,000 | 12,750,000 | 169 | 921 | -0.777191411 | TNFSF11 |
| 12 | 12,675,000 | 12,825,000 | 170 | 1668 | -0.237154746 | TNFSF11 |
| 12 | 12,750,000 | 12,900,000 | 171 | 1881 | -0.116603498 | TNFSF11 |
| 12 | 12,825,000 | 12,975,000 | 172 | 1581 | 0.091014464 | FAM216B |
| 12 | 12,900,000 | 13,050,000 | 173 | 1606 | -0.05209968 | FAM216B |
| 12 | 12,975,000 | 13,125,000 | 174 | 1455 | 0.179893077 | EPSTI1,FAM216B |
| 12 | 13,050,000 | 13,200,000 | 175 | 918 | -0.38548857 | DNAJC15,EPSTI1 |
| 12 | 13,125,000 | 13,275,000 | 176 | 752 | -2.323885338 | DNAJC15,EPSTI1 |
| 12 | 13,200,000 | 13,350,000 | 177 | 623 | -1.575184933 | DNAJC15 |
| 12 | 13,275,000 | 13,425,000 | 178 | 567 | -0.305256635 | ENOX1 |
| 12 | 13,350,000 | 13,500,000 | 179 | 897 | -2.736264565 | ENOX1 |
| 12 | 13,425,000 | 13,575,000 | 180 | 1243 | -2.071847659 | ENOX1 |
| 12 | 13,500,000 | 13,650,000 | 181 | 1446 | 0.092472801 | ENOX1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------|
| 12 | 13,575,000 | 13,725,000 | 182 | 1303 | 0.379222643 | ENOX1 |
| 12 | 13,650,000 | 13,800,000 | 183 | 1163 | 0.294339043 | |
| 12 | 13,725,000 | 13,875,000 | 184 | 1124 | 0.445085945 | |
| 12 | 13,800,000 | 13,950,000 | 185 | 943 | -0.131289568 | |
| 12 | 13,875,000 | 14,025,000 | 186 | 882 | -0.456379954 | |
| 12 | 13,950,000 | 14,100,000 | 187 | 784 | -0.541179051 | |
| 12 | 14,025,000 | 14,175,000 | 188 | 544 | -0.627100743 | CCDC122,LACC1 |
| 12 | 14,100,000 | 14,250,000 | 189 | 727 | -0.535062156 | CCDC122,LACC1 |
| 12 | 14,175,000 | 14,325,000 | 190 | 772 | -1.721024526 | |
| 12 | 14,250,000 | 14,400,000 | 191 | 520 | -3.418556248 | |
| 12 | 14,325,000 | 14,475,000 | 192 | 437 | -2.048168971 | |
| 12 | 14,400,000 | 14,550,000 | 193 | 508 | 0.350394335 | |
| 12 | 14,475,000 | 14,625,000 | 194 | 967 | 0.195844535 | |
| 12 | 14,550,000 | 14,700,000 | 195 | 913 | -0.090362369 | |
| 12 | 14,625,000 | 14,775,000 | 196 | 444 | -0.267306892 | TSC22D1 |
| 12 | 14,700,000 | 14,850,000 | 197 | 324 | -0.502685919 | TSC22D1 |
| 12 | 14,775,000 | 14,925,000 | 198 | 281 | -0.824659208 | TSC22D1 |
| 12 | 14,850,000 | 15,000,000 | 199 | 722 | 0.897293907 | |
| 12 | 14,925,000 | 15,075,000 | 200 | 1247 | 1.06048955 | |
| 12 | 15,000,000 | 15,150,000 | 201 | 1249 | 0.975004536 | |
| 12 | 15,075,000 | 15,225,000 | 202 | 1055 | 0.842917219 | GPALPP1,NUFIP1 |
| 12 | 15,150,000 | 15,300,000 | 203 | 1039 | -0.030286586 | GPALPP1,NUFIP1 |
| 12 | 15,225,000 | 15,375,000 | 204 | 1074 | 0.059444973 | GTF2F2 |
| 12 | 15,300,000 | 15,450,000 | 205 | 691 | 0.184726476 | GTF2F2,KCTD4 |
| 12 | 15,375,000 | 15,525,000 | 206 | 569 | -0.974888528 | GTF2F2,KCTD4,TPT1 |
| 12 | 15,450,000 | 15,600,000 | 207 | 870 | -0.082919082 | GTF2F2,SLC25A30,TPT1 |
| 12 | 15,525,000 | 15,675,000 | 208 | 627 | 0.531528538 | COG3,SLC25A30 |
| 12 | 15,600,000 | 15,750,000 | 209 | 466 | 0.141760649 | COG3,SLC25A30 |
| 12 | 15,675,000 | 15,825,000 | 210 | 1051 | 0.492858684 | COG3,SPERT |
| 12 | 15,750,000 | 15,900,000 | 211 | 1115 | 0.638104528 | SPERT |
| 12 | 15,825,000 | 15,975,000 | 212 | 633 | 0.74208971 | SPERT |
| 12 | 15,900,000 | 16,050,000 | 213 | 818 | 0.604889984 | |
| 12 | 15,975,000 | 16,125,000 | 214 | 838 | 0.624343441 | ZC3H13 |
| 12 | 16,050,000 | 16,200,000 | 215 | 554 | 0.807846769 | CPB2,ZC3H13 |
| 12 | 16,125,000 | 16,275,000 | 216 | 818 | 1.072336691 | CPB2,LCP1,ZC3H13 |
| 12 | 16,200,000 | 16,350,000 | 217 | 1066 | 1.078797045 | CPB2,LCP1 |
| 12 | 16,275,000 | 16,425,000 | 218 | 1000 | 0.155530714 | KIAA0226L,LCP1,LRRC63 |
| 12 | 16,350,000 | 16,500,000 | 219 | 783 | -0.527558385 | KIAA0226L,LRRC63 |
| 12 | 16,425,000 | 16,575,000 | 220 | 768 | -0.816749178 | KIAA0226L,LRCH1 |
| 12 | 16,500,000 | 16,650,000 | 221 | 772 | -1.119066746 | LRCH1 |
| 12 | 16,575,000 | 16,725,000 | 222 | 551 | -0.800771377 | LRCH1 |
| 12 | 16,650,000 | 16,800,000 | 223 | 505 | 0.236887376 | ESD,LRCH1 |
| 12 | 16,725,000 | 16,875,000 | 224 | 648 | 0.446226562 | ESD,HTR2A,LRCH1 |
| 12 | 16,800,000 | 16,950,000 | 225 | 726 | 0.283665735 | HTR2A |
| 12 | 16,875,000 | 17,025,000 | 226 | 731 | 0.380713918 | HTR2A |
| 12 | 16,950,000 | 17,100,000 | 227 | 733 | 0.383307734 | |
| 12 | 17,025,000 | 17,175,000 | 228 | 807 | 0.417797652 | |
| 12 | 17,100,000 | 17,250,000 | 229 | 957 | 0.287822696 | |
| 12 | 17,175,000 | 17,325,000 | 230 | 950 | 0.541304135 | |
| 12 | 17,250,000 | 17,400,000 | 231 | 1007 | 0.738226976 | |
| 12 | 17,325,000 | 17,475,000 | 232 | 868 | 0.357041215 | |
| 12 | 17,400,000 | 17,550,000 | 233 | 480 | 0.066088062 | |
| 12 | 17,475,000 | 17,625,000 | 234 | 533 | 0.267283763 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 12 | 17,550,000 | 17,700,000 | 235 | 650 | 0.370804087 | |
| 12 | 17,625,000 | 17,775,000 | 236 | 1004 | -1.721139517 | |
| 12 | 17,700,000 | 17,850,000 | 237 | 1275 | -2.498779195 | |
| 12 | 17,775,000 | 17,925,000 | 238 | 741 | -2.23187214 | SUCLA2 |
| 12 | 17,850,000 | 18,000,000 | 239 | 435 | 0.257243133 | MED4,NUDT15,SUCLA2 |
| 12 | 17,925,000 | 18,075,000 | 240 | 597 | 0.050263183 | MED4,NUDT15,SUCLA2 |
| 12 | 18,000,000 | 18,150,000 | 241 | 867 | 0.098921943 | ITM2B |
| 12 | 18,075,000 | 18,225,000 | 242 | 971 | 0.739250181 | ITM2B,RB1,ENSBTAG00000003560 |
| 12 | 18,150,000 | 18,300,000 | 243 | 886 | 0.92203552 | P2RY5,RB1,ENSBTAG00000003560 |
| 12 | 18,225,000 | 18,375,000 | 244 | 875 | 0.894352544 | P2RY5,RB1,RCBTB2 |
| 12 | 18,300,000 | 18,450,000 | 245 | 1031 | 1.076723254 | RB1,RCBTB2 |
| 12 | 18,375,000 | 18,525,000 | 246 | 1202 | 1.206705418 | |
| 12 | 18,450,000 | 18,600,000 | 247 | 1344 | 1.095218776 | CYSLTR2 |
| 12 | 18,525,000 | 18,675,000 | 248 | 1175 | 0.467223584 | CYSLTR2 |
| 12 | 18,600,000 | 18,750,000 | 249 | 695 | -1.369822999 | |
| 12 | 18,675,000 | 18,825,000 | 250 | 530 | -1.701300177 | |
| 12 | 18,750,000 | 18,900,000 | 251 | 396 | -0.274827369 | FNDC3A |
| 12 | 18,825,000 | 18,975,000 | 252 | 250 | -0.152140149 | CDADC1,FNDC3A,MLNR |
| 12 | 18,900,000 | 19,050,000 | 253 | 697 | -0.166415486 | CAB39L,CDADC1,FNDC3A,MLNR |
| 12 | 18,975,000 | 19,125,000 | 254 | 1130 | -0.645022258 | CAB39L,CDADC1,SETDB2 |
| 12 | 19,050,000 | 19,200,000 | 255 | 1108 | -0.758891757 | CAB39L,PHF11,RCBTB1,SETDB2 |
| 12 | 19,125,000 | 19,275,000 | 256 | 982 | -0.052375704 | PHF11,RCBTB1,SETDB2 |
| 12 | 19,200,000 | 19,350,000 | 257 | 1039 | -0.029531982 | ARL11,EBPL,KPNA3,RCBTB1 |
| 12 | 19,275,000 | 19,425,000 | 258 | 891 | 0.122498919 | ARL11,EBPL,KPNA3 |
| 12 | 19,350,000 | 19,500,000 | 259 | 659 | 0.25074615 | KPNA3,SPRYD7 |
| 12 | 19,425,000 | 19,575,000 | 260 | 524 | -0.008484994 | KCNRG,SPRYD7,TRIM13 |
| 12 | 19,500,000 | 19,650,000 | 261 | 317 | 0.293234423 | KCNRG,SPRYD7,TRIM13 |
| 12 | 19,575,000 | 19,725,000 | 262 | 359 | 0.670247968 | |
| 12 | 19,650,000 | 19,800,000 | 263 | 489 | 0.494355774 | |
| 12 | 19,725,000 | 19,875,000 | 264 | 682 | 0.406339159 | |
| 12 | 19,800,000 | 19,950,000 | 265 | 679 | 0.522332858 | |
| 12 | 19,875,000 | 20,025,000 | 266 | 534 | 0.420168117 | |
| 12 | 19,950,000 | 20,100,000 | 267 | 507 | -0.045187137 | |
| 12 | 20,025,000 | 20,175,000 | 268 | 442 | 0.028095194 | |
| 12 | 20,100,000 | 20,250,000 | 269 | 717 | 0.818239297 | |
| 12 | 20,175,000 | 20,325,000 | 270 | 884 | 0.578684454 | |
| 12 | 20,250,000 | 20,400,000 | 271 | 630 | -0.02400868 | |
| 12 | 20,325,000 | 20,475,000 | 272 | 609 | -1.434871803 | RNASEH2B |
| 12 | 20,400,000 | 20,550,000 | 273 | 580 | -1.913744813 | RNASEH2B,ENSBTAG00000007457 |
| 12 | 20,475,000 | 20,625,000 | 274 | 514 | -0.245920769 | RNASEH2B,ENSBTAG00000007457 |
| 12 | 20,550,000 | 20,700,000 | 275 | 495 | 0.661710818 | ENSBTAG00000007457 |
| 12 | 20,625,000 | 20,775,000 | 276 | 690 | 0.401293978 | FAM124A |
| 12 | 20,700,000 | 20,850,000 | 277 | 1258 | 0.117624174 | FAM124A |
| 12 | 20,775,000 | 20,925,000 | 278 | 1147 | -0.066708219 | FAM124A,INTS6,SERPINE3 |
| 12 | 20,850,000 | 21,000,000 | 279 | 650 | -0.062289806 | INTS6,SERPINE3 |
| 12 | 20,925,000 | 21,075,000 | 280 | 539 | -0.811137073 | INTS6 |
| 12 | 21,000,000 | 21,150,000 | 281 | 424 | -1.566904926 | WDFY2 |
| 12 | 21,075,000 | 21,225,000 | 282 | 779 | 0.003132111 | WDFY2 |
| 12 | 21,150,000 | 21,300,000 | 283 | 1332 | 0.660613401 | DHRS12,WDFY2 |
| 12 | 21,225,000 | 21,375,000 | 284 | 1715 | 0.107438142 | CCDC70,DHRS12,WDFY2 |
| 12 | 21,300,000 | 21,450,000 | 285 | 1989 | 0.321800693 | ATP7B,CCDC70,DHRS12 |
| 12 | 21,375,000 | 21,525,000 | 286 | 1454 | 0.799523501 | ALG11,ATP7B,CCDC70,NEK5 |
| 12 | 21,450,000 | 21,600,000 | 287 | 931 | 0.98408464 | ALG11,ATP7B,NEK3,NEK5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------------|
| 12 | 21,525,000 | 21,675,000 | 288 | 740 | 0.831444535 | CKAP2,NEK3,NEK5,THSD1,VPS36 |
| 12 | 21,600,000 | 21,750,000 | 289 | 363 | -0.170943592 | CKAP2,THSD1,VPS36 |
| 12 | 21,675,000 | 21,825,000 | 290 | 480 | 0.406834982 | SLC25A15,THSD1,ENSBTAG00000011654 |
| 12 | 21,750,000 | 21,900,000 | 291 | 569 | 0.474353017 | MRPS31,SLC25A15,ENSBTAG00000011654 |
| 12 | 21,825,000 | 21,975,000 | 292 | 341 | 0.086202225 | FOXO1,MRPS31,SLC25A15 |
| 12 | 21,900,000 | 22,050,000 | 293 | 243 | -0.352548641 | FOXO1 |
| 12 | 21,975,000 | 22,125,000 | 294 | 260 | -0.242836667 | FOXO1 |
| 12 | 22,050,000 | 22,200,000 | 295 | 244 | -0.162166852 | |
| 12 | 22,125,000 | 22,275,000 | 296 | 233 | 0.564026553 | |
| 12 | 22,200,000 | 22,350,000 | 297 | 837 | 1.211117772 | |
| 12 | 22,275,000 | 22,425,000 | 298 | 1322 | 1.039463888 | |
| 12 | 22,350,000 | 22,500,000 | 299 | 1171 | 0.701664845 | |
| 12 | 22,425,000 | 22,575,000 | 300 | 904 | 0.359212849 | |
| 12 | 22,500,000 | 22,650,000 | 301 | 592 | -0.317176257 | |
| 12 | 22,575,000 | 22,725,000 | 302 | 469 | -0.309880394 | COG6 |
| 12 | 22,650,000 | 22,800,000 | 303 | 468 | 0.52899417 | COG6 |
| 12 | 22,725,000 | 22,875,000 | 304 | 788 | 0.733626058 | COG6,LHFP |
| 12 | 22,800,000 | 22,950,000 | 305 | 809 | 0.414382631 | LHFP |
| 12 | 22,875,000 | 23,025,000 | 306 | 507 | -0.118828235 | LHFP |
| 12 | 22,950,000 | 23,100,000 | 307 | 656 | -0.337306756 | LHFP |
| 12 | 23,025,000 | 23,175,000 | 308 | 770 | -0.167270695 | LHFP |
| 12 | 23,100,000 | 23,250,000 | 309 | 823 | 0.066836567 | NHLRC3,PROSER1 |
| 12 | 23,175,000 | 23,325,000 | 310 | 905 | 0.225279116 | FREM2,NHLRC3,PROSER1,STOML3 |
| 12 | 23,250,000 | 23,400,000 | 311 | 1021 | 0.640332512 | FREM2,PROSER1,STOML3 |
| 12 | 23,325,000 | 23,475,000 | 312 | 882 | 0.569877107 | FREM2 |
| 12 | 23,400,000 | 23,550,000 | 313 | 746 | -1.966799772 | FREM2 |
| 12 | 23,475,000 | 23,625,000 | 314 | 912 | -1.433022243 | |
| 12 | 23,550,000 | 23,700,000 | 315 | 651 | 0.242293469 | |
| 12 | 23,625,000 | 23,775,000 | 316 | 365 | -0.125526198 | |
| 12 | 23,700,000 | 23,850,000 | 317 | 513 | -1.292141942 | |
| 12 | 23,775,000 | 23,925,000 | 318 | 585 | -1.597151897 | |
| 12 | 23,850,000 | 24,000,000 | 319 | 699 | -0.131408991 | |
| 12 | 23,925,000 | 24,075,000 | 320 | 777 | 0.575787034 | TRPC4 |
| 12 | 24,000,000 | 24,150,000 | 321 | 892 | 0.677715922 | TRPC4 |
| 12 | 24,075,000 | 24,225,000 | 322 | 860 | 0.234745112 | TRPC4 |
| 12 | 24,150,000 | 24,300,000 | 323 | 522 | -0.071755068 | POSTN,TRPC4 |
| 12 | 24,225,000 | 24,375,000 | 324 | 565 | 1.039007873 | POSTN |
| 12 | 24,300,000 | 24,450,000 | 325 | 971 | 1.11811628 | |
| 12 | 24,375,000 | 24,525,000 | 326 | 1336 | 1.017592017 | |
| 12 | 24,450,000 | 24,600,000 | 327 | 1546 | 0.76223059 | |
| 12 | 24,525,000 | 24,675,000 | 328 | 1304 | 0.25797748 | FAM48A |
| 12 | 24,600,000 | 24,750,000 | 329 | 752 | -0.413349727 | ALG5,EXOSC8,FAM48A |
| 12 | 24,675,000 | 24,825,000 | 330 | 661 | -0.707642513 | ALG5,EXOSC8,FAM48A,SMAD9 |
| 12 | 24,750,000 | 24,900,000 | 331 | 816 | -1.027265635 | RFXAP,SMAD9 |
| 12 | 24,825,000 | 24,975,000 | 332 | 713 | -0.596434141 | RFXAP,SERTM1 |
| 12 | 24,900,000 | 25,050,000 | 333 | 768 | 0.668204541 | SERTM1 |
| 12 | 24,975,000 | 25,125,000 | 334 | 903 | 0.879781242 | |
| 12 | 25,050,000 | 25,200,000 | 335 | 1006 | 0.674654339 | CCNA1,SPG20 |
| 12 | 25,125,000 | 25,275,000 | 336 | 970 | 0.698727524 | CCNA1,SPG20,ENSBTAG00000018955 |
| 12 | 25,200,000 | 25,350,000 | 337 | 839 | 1.114504024 | SPG20,ENSBTAG00000018955 |
| 12 | 25,275,000 | 25,425,000 | 338 | 1049 | 0.809236567 | DCLK1,ENSBTAG00000018955 |
| 12 | 25,350,000 | 25,500,000 | 339 | 1282 | 0.565643547 | DCLK1 |
| 12 | 25,425,000 | 25,575,000 | 340 | 1223 | 0.450973352 | DCLK1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 12 | 25,500,000 | 25,650,000 | 341 | 985 | 0.474500104 | DCLK1 |
| 12 | 25,575,000 | 25,725,000 | 342 | 884 | 0.746152936 | DCLK1 |
| 12 | 25,650,000 | 25,800,000 | 343 | 1003 | 0.85823588 | DCLK1,NBEA |
| 12 | 25,725,000 | 25,875,000 | 344 | 962 | 0.796868997 | NBEA |
| 12 | 25,800,000 | 25,950,000 | 345 | 848 | 0.043598831 | NBEA |
| 12 | 25,875,000 | 26,025,000 | 346 | 658 | -0.497160568 | MAB21L1,NBEA |
| 12 | 25,950,000 | 26,100,000 | 347 | 587 | -0.149215857 | MAB21L1,NBEA |
| 12 | 26,025,000 | 26,175,000 | 348 | 894 | 0.185495044 | NBEA,ENSBTAG00000019268 |
| 12 | 26,100,000 | 26,250,000 | 349 | 710 | -0.086768695 | NBEA,ENSBTAG00000019268 |
| 12 | 26,175,000 | 26,325,000 | 350 | 450 | -1.193940734 | NBEA |
| 12 | 26,250,000 | 26,400,000 | 351 | 610 | -1.085949403 | NBEA |
| 12 | 26,325,000 | 26,475,000 | 352 | 744 | -1.105225495 | NBEA |
| 12 | 26,400,000 | 26,550,000 | 353 | 751 | -1.713146749 | |
| 12 | 26,475,000 | 26,625,000 | 354 | 736 | -1.339422515 | |
| 12 | 26,550,000 | 26,700,000 | 355 | 573 | -1.438415366 | |
| 12 | 26,625,000 | 26,775,000 | 356 | 502 | -2.865730955 | |
| 12 | 26,700,000 | 26,850,000 | 357 | 630 | -1.944754015 | |
| 12 | 26,775,000 | 26,925,000 | 358 | 869 | -0.004908536 | |
| 12 | 26,850,000 | 27,000,000 | 359 | 874 | 0.617576763 | |
| 12 | 26,925,000 | 27,075,000 | 360 | 675 | -0.003492486 | |
| 12 | 27,000,000 | 27,150,000 | 361 | 641 | 0.170267873 | |
| 12 | 27,075,000 | 27,225,000 | 362 | 733 | 0.446346938 | |
| 12 | 27,150,000 | 27,300,000 | 363 | 730 | 0.489019273 | |
| 12 | 27,225,000 | 27,375,000 | 364 | 640 | 0.222471915 | |
| 12 | 27,300,000 | 27,450,000 | 365 | 629 | -0.570395543 | RFC3 |
| 12 | 27,375,000 | 27,525,000 | 366 | 567 | -0.132654891 | RFC3 |
| 12 | 27,450,000 | 27,600,000 | 367 | 407 | 0.543684385 | |
| 12 | 27,525,000 | 27,675,000 | 368 | 295 | 0.405298229 | |
| 12 | 27,600,000 | 27,750,000 | 369 | 402 | 0.16181768 | |
| 12 | 27,675,000 | 27,825,000 | 370 | 425 | 0.081959465 | |
| 12 | 27,750,000 | 27,900,000 | 371 | 334 | 0.191722237 | STARD13 |
| 12 | 27,825,000 | 27,975,000 | 372 | 394 | -0.243400308 | STARD13 |
| 12 | 27,900,000 | 28,050,000 | 373 | 417 | -1.602446527 | STARD13 |
| 12 | 27,975,000 | 28,125,000 | 374 | 477 | -2.100936951 | KL,STARD13 |
| 12 | 28,050,000 | 28,200,000 | 375 | 687 | -0.630338093 | KL |
| 12 | 28,125,000 | 28,275,000 | 376 | 559 | -0.403979162 | |
| 12 | 28,200,000 | 28,350,000 | 377 | 342 | -0.043331297 | PDS5B |
| 12 | 28,275,000 | 28,425,000 | 378 | 246 | 1.157028039 | PDS5B |
| 12 | 28,350,000 | 28,500,000 | 379 | 183 | 1.154651221 | PDS5B |
| 12 | 28,425,000 | 28,575,000 | 380 | 215 | 1.202173907 | PDS5B,ENSBTAG00000023279 |
| 12 | 28,500,000 | 28,650,000 | 381 | 228 | 1.103154296 | BRCA2,N4BP2L1,ENSBTAG00000023279 |
| 12 | 28,575,000 | 28,725,000 | 382 | 215 | 0.191272398 | BRCA2,N4BP2L1,ZAR1L |
| 12 | 28,650,000 | 28,800,000 | 383 | 201 | -0.432975224 | BRCA2,FRY,ZAR1L |
| 12 | 28,725,000 | 28,875,000 | 384 | 292 | 0.477407425 | FRY |
| 12 | 28,800,000 | 28,950,000 | 385 | 436 | 0.624761648 | FRY |
| 12 | 28,875,000 | 29,025,000 | 386 | 716 | 0.434409765 | FRY |
| 12 | 28,950,000 | 29,100,000 | 387 | 846 | 0.573076159 | FRY |
| 12 | 29,025,000 | 29,175,000 | 388 | 552 | 0.531590802 | |
| 12 | 29,100,000 | 29,250,000 | 389 | 322 | -1.47290051 | RXFP2 |
| 12 | 29,175,000 | 29,325,000 | 390 | 193 | -3.544230418 | RXFP2 |
| 12 | 29,250,000 | 29,400,000 | 391 | 161 | -2.619522041 | RXFP2 |
| 12 | 29,325,000 | 29,475,000 | 392 | 196 | -2.765844295 | |
| 12 | 29,400,000 | 29,550,000 | 393 | 180 | -1.036139386 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 12 | 29,475,000 | 29,625,000 | 394 | 324 | 0.793443729 | |
| 12 | 29,550,000 | 29,700,000 | 395 | 636 | -1.177624916 | B3GALTL |
| 12 | 29,625,000 | 29,775,000 | 396 | 674 | -2.148677423 | B3GALTL |
| 12 | 29,700,000 | 29,850,000 | 397 | 606 | -0.894573685 | B3GALTL,HSPH1 |
| 12 | 29,775,000 | 29,925,000 | 398 | 770 | -0.19323675 | HSPH1,ENSBTAG00000016052 |
| 12 | 29,850,000 | 30,000,000 | 399 | 764 | 0.003013214 | C12H13ORF26,ENSBTAG00000016052 |
| 12 | 29,925,000 | 30,075,000 | 400 | 790 | 0.620583952 | C12H13ORF26,MEDAG |
| 12 | 30,000,000 | 30,150,000 | 401 | 850 | 0.816628658 | ALOX5AP,C12H13ORF26,MEDAG |
| 12 | 30,075,000 | 30,225,000 | 402 | 797 | 0.721380455 | ALOX5AP,USPL1 |
| 12 | 30,150,000 | 30,300,000 | 403 | 655 | 0.7925357 | ALOX5AP,USPL1 |
| 12 | 30,225,000 | 30,375,000 | 404 | 590 | 0.291432724 | HMGB1,USPL1 |
| 12 | 30,300,000 | 30,450,000 | 405 | 847 | 0.77396752 | HMGB1 |
| 12 | 30,375,000 | 30,525,000 | 406 | 838 | 0.717840454 | KATNAL1 |
| 12 | 30,450,000 | 30,600,000 | 407 | 653 | 0.443778837 | KATNAL1 |
| 12 | 30,525,000 | 30,675,000 | 408 | 781 | 0.622645537 | KATNAL1 |
| 12 | 30,600,000 | 30,750,000 | 409 | 928 | -0.934900745 | |
| 12 | 30,675,000 | 30,825,000 | 410 | 1070 | -0.415139919 | |
| 12 | 30,750,000 | 30,900,000 | 411 | 1013 | 0.664748158 | UBL3 |
| 12 | 30,825,000 | 30,975,000 | 412 | 739 | 0.99141909 | UBL3 |
| 12 | 30,900,000 | 31,050,000 | 413 | 881 | 0.866655337 | MTUS2,SLC7A1 |
| 12 | 30,975,000 | 31,125,000 | 414 | 1198 | 0.509058887 | MTUS2,SLC7A1 |
| 12 | 31,050,000 | 31,200,000 | 415 | 1362 | 0.591761796 | MTUS2 |
| 12 | 31,125,000 | 31,275,000 | 416 | 1538 | 0.804473038 | MTUS2 |
| 12 | 31,200,000 | 31,350,000 | 417 | 1302 | 0.858725171 | MTUS2 |
| 12 | 31,275,000 | 31,425,000 | 418 | 1154 | 0.737056515 | MTUS2 |
| 12 | 31,350,000 | 31,500,000 | 419 | 919 | 0.72885219 | POMP,SLC46A3 |
| 12 | 31,425,000 | 31,575,000 | 420 | 474 | 0.832421393 | POMP,SLC46A3 |
| 12 | 31,500,000 | 31,650,000 | 421 | 493 | -1.034613113 | POMP |
| 12 | 31,575,000 | 31,725,000 | 422 | 735 | -0.33915441 | FLT1 |
| 12 | 31,650,000 | 31,800,000 | 423 | 1002 | 0.785162735 | FLT1 |
| 12 | 31,725,000 | 31,875,000 | 424 | 830 | 0.805035023 | FLT1,PAN3 |
| 12 | 31,800,000 | 31,950,000 | 425 | 449 | 0.938213577 | FLT1,PAN3 |
| 12 | 31,875,000 | 32,025,000 | 426 | 342 | -0.266265959 | PAN3 |
| 12 | 31,950,000 | 32,100,000 | 427 | 749 | -1.89558235 | |
| 12 | 32,025,000 | 32,175,000 | 428 | 1314 | -1.253323509 | |
| 12 | 32,100,000 | 32,250,000 | 429 | 1579 | -0.218043045 | FLT3 |
| 12 | 32,175,000 | 32,325,000 | 430 | 1069 | -0.847713987 | CDX2,FLT3,URAD |
| 12 | 32,250,000 | 32,400,000 | 431 | 387 | -2.521949676 | CDX2,FLT3,PDX1,URAD |
| 12 | 32,325,000 | 32,475,000 | 432 | 332 | -0.564668037 | GSX1,PDX1 |
| 12 | 32,400,000 | 32,550,000 | 433 | 469 | -0.184635822 | GSX1,POLR1D |
| 12 | 32,475,000 | 32,625,000 | 434 | 518 | -0.036577571 | LNX2,POLR1D |
| 12 | 32,550,000 | 32,700,000 | 435 | 488 | 0.034169613 | LNX2,POLR1D |
| 12 | 32,625,000 | 32,775,000 | 436 | 384 | -0.194338201 | GTF3A,LNX2,MTIF3 |
| 12 | 32,700,000 | 32,850,000 | 437 | 355 | -0.661244718 | GTF3A,MTIF3,RASL11A |
| 12 | 32,775,000 | 32,925,000 | 438 | 383 | 0.03576702 | RASL11A,RPL21,USP12 |
| 12 | 32,850,000 | 33,000,000 | 439 | 618 | -0.070493445 | RPL21,USP12 |
| 12 | 32,925,000 | 33,075,000 | 440 | 891 | -0.635394983 | USP12 |
| 12 | 33,000,000 | 33,150,000 | 441 | 741 | -0.197267429 | GPR12 |
| 12 | 33,075,000 | 33,225,000 | 442 | 698 | 0.905701853 | GPR12,WASF3 |
| 12 | 33,150,000 | 33,300,000 | 443 | 603 | 0.530985094 | WASF3 |
| 12 | 33,225,000 | 33,375,000 | 444 | 384 | -0.998891185 | CDK8 |
| 12 | 33,300,000 | 33,450,000 | 445 | 411 | 0.377110288 | CDK8,RNF6 |
| 12 | 33,375,000 | 33,525,000 | 446 | 724 | 0.327390424 | RNF6,ENSBTAG00000025428 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 12 | 33,450,000 | 33,600,000 | 447 | 896 | 0.13307889 | SHISA2,ENSBTAG00000025428 |
| 12 | 33,525,000 | 33,675,000 | 448 | 655 | -1.047116432 | SHISA2,ENSBTAG00000025428 |
| 12 | 33,600,000 | 33,750,000 | 449 | 652 | -0.561664531 | |
| 12 | 33,675,000 | 33,825,000 | 450 | 946 | -0.972875072 | ATP8A2 |
| 12 | 33,750,000 | 33,900,000 | 451 | 767 | -1.114442587 | ATP8A2 |
| 12 | 33,825,000 | 33,975,000 | 452 | 384 | 0.528015912 | ATP8A2 |
| 12 | 33,900,000 | 34,050,000 | 453 | 277 | 0.057079884 | ATP8A2 |
| 12 | 33,975,000 | 34,125,000 | 454 | 323 | -0.271644441 | ATP8A2 |
| 12 | 34,050,000 | 34,200,000 | 455 | 318 | 0.313937539 | ATP8A2,MTMR6,NUPL1 |
| 12 | 34,125,000 | 34,275,000 | 456 | 293 | 1.014213494 | MTMR6,NUPL1 |
| 12 | 34,200,000 | 34,350,000 | 457 | 292 | 1.043914048 | |
| 12 | 34,275,000 | 34,425,000 | 458 | 421 | 0.675900063 | |
| 12 | 34,350,000 | 34,500,000 | 459 | 606 | 0.931668823 | ENSBTAG00000019545 |
| 12 | 34,425,000 | 34,575,000 | 460 | 597 | 0.371769973 | C1QTNF9,MIPEP,ENSBTAG00000019545 |
| 12 | 34,500,000 | 34,650,000 | 461 | 776 | -0.947286983 | C1QTNF9,MIPEP,ENSBTAG00000019545 |
| 12 | 34,575,000 | 34,725,000 | 462 | 740 | -1.092588864 | MIPEP,TNFRSF19 |
| 12 | 34,650,000 | 34,800,000 | 463 | 552 | -0.10733616 | TNFRSF19 |
| 12 | 34,725,000 | 34,875,000 | 464 | 532 | 0.581073519 | TNFRSF19 |
| 12 | 34,800,000 | 34,950,000 | 465 | 420 | 0.219532166 | SACS,SGCG |
| 12 | 34,875,000 | 35,025,000 | 466 | 342 | 0.386985812 | SACS,SGCG |
| 12 | 34,950,000 | 35,100,000 | 467 | 408 | -0.270203073 | SGCG |
| 12 | 35,025,000 | 35,175,000 | 468 | 362 | -0.707241919 | |
| 12 | 35,100,000 | 35,250,000 | 469 | 255 | 0.510484488 | |
| 12 | 35,175,000 | 35,325,000 | 470 | 368 | 0.550332142 | |
| 12 | 35,250,000 | 35,400,000 | 471 | 487 | 0.280356483 | |
| 12 | 35,325,000 | 35,475,000 | 472 | 605 | 0.343668888 | |
| 12 | 35,400,000 | 35,550,000 | 473 | 463 | -0.415167699 | |
| 12 | 35,475,000 | 35,625,000 | 474 | 250 | -4.353265919 | |
| 12 | 35,550,000 | 35,700,000 | 475 | 303 | -2.883794214 | FGF9 |
| 12 | 35,625,000 | 35,775,000 | 476 | 296 | -0.430973765 | EFHA1,FGF9 |
| 12 | 35,700,000 | 35,850,000 | 477 | 287 | 0.286391386 | EFHA1,MRPL57,SKA3,ZDHHC20 |
| 12 | 35,775,000 | 35,925,000 | 478 | 273 | 0.124594642 | LATS2,MRPL57,SAP18,SKA3,ZDHHC20 |
| 12 | 35,850,000 | 36,000,000 | 479 | 151 | 0.128468537 | LATS2,SAP18,SKA3,XPO4 |
| 12 | 35,925,000 | 36,075,000 | 480 | 81 | 0.315136252 | LATS2,N6AMT2,XPO4 |
| 12 | 36,000,000 | 36,150,000 | 481 | 82 | 0.483613853 | IFT88,IL17D,N6AMT2,XPO4 |
| 12 | 36,075,000 | 36,225,000 | 482 | 101 | 0.469804963 | CRYL1,IFT88,IL17D,N6AMT2 |
| 12 | 36,150,000 | 36,300,000 | 483 | 332 | 1.137462341 | CRYL1,IFT88 |
| 12 | 36,225,000 | 36,375,000 | 484 | 351 | 0.736657184 | CRYL1,GJA3,GJB2,GJB6 |
| 12 | 36,300,000 | 36,450,000 | 485 | 141 | -1.481494085 | GJA3,GJB2,GJB6,ZMYM2 |
| 12 | 36,375,000 | 36,525,000 | 486 | 166 | -2.689034704 | ZMYM2,ZMYM5 |
| 12 | 36,450,000 | 36,600,000 | 487 | 262 | -3.411501917 | PSPC1,ZMYM2,ZMYM5 |
| 12 | 36,525,000 | 36,675,000 | 488 | 284 | -3.417370914 | MPHOSPH8,PARP4,PSPC1 |
| 12 | 36,600,000 | 36,750,000 | 489 | 247 | -2.787500825 | CENPJ,MPHOSPH8,PARP4 |
| 12 | 36,675,000 | 36,825,000 | 490 | 203 | -2.443574137 | CENPJ,PARP4,RNF17 |
| 12 | 36,750,000 | 36,900,000 | 491 | 171 | -3.166014542 | CENPJ,RNF17 |
| 12 | 36,825,000 | 36,975,000 | 492 | 128 | -3.504245542 | ATP12A,RNF17 |
| 12 | 36,900,000 | 37,050,000 | 493 | 121 | -3.157012465 | ATP12A |
| 12 | 36,975,000 | 37,125,000 | 494 | 259 | -2.226602688 | |
| 12 | 37,050,000 | 37,200,000 | 495 | 298 | -1.837831393 | |
| 12 | 37,125,000 | 37,275,000 | 496 | 352 | -0.38802804 | |
| 12 | 37,200,000 | 37,350,000 | 497 | 681 | 1.208279636 | |
| 12 | 37,275,000 | 37,425,000 | 498 | 1276 | 1.252423807 | |
| 12 | 37,350,000 | 37,500,000 | 499 | 1342 | 1.032373929 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 37,425,000 | 37,575,000 | 500 | 930 | -0.016425719 | |
| 12 | 37,500,000 | 37,650,000 | 501 | 799 | -0.687654044 | |
| 12 | 37,575,000 | 37,725,000 | 502 | 1129 | 0.413273177 | |
| 12 | 37,650,000 | 37,800,000 | 503 | 1042 | 0.630401841 | ENSBTAG00000014274 |
| 12 | 37,725,000 | 37,875,000 | 504 | 398 | 0.180181034 | ENSBTAG00000014274 |
| 12 | 37,800,000 | 37,950,000 | 505 | 205 | -0.787599802 | |
| 12 | 37,875,000 | 38,025,000 | 506 | 206 | -0.8090393 | |
| 12 | 37,950,000 | 38,100,000 | 507 | 199 | -0.656708189 | |
| 12 | 38,025,000 | 38,175,000 | 508 | 423 | -0.569583066 | |
| 12 | 38,100,000 | 38,250,000 | 509 | 494 | -0.405402252 | |
| 12 | 38,175,000 | 38,325,000 | 510 | 329 | -0.16441293 | |
| 12 | 38,250,000 | 38,400,000 | 511 | 311 | -0.391965143 | |
| 12 | 38,325,000 | 38,475,000 | 512 | 243 | -0.295147596 | |
| 12 | 38,400,000 | 38,550,000 | 513 | 211 | 0.326850591 | |
| 12 | 38,475,000 | 38,625,000 | 514 | 224 | 0.020110605 | |
| 12 | 38,550,000 | 38,700,000 | 515 | 225 | -0.421773785 | |
| 12 | 38,625,000 | 38,775,000 | 516 | 228 | -0.376018041 | |
| 12 | 38,700,000 | 38,850,000 | 517 | 452 | -0.334826016 | |
| 12 | 38,775,000 | 38,925,000 | 518 | 936 | -0.087679715 | |
| 12 | 38,850,000 | 39,000,000 | 519 | 1005 | -0.111975521 | |
| 12 | 38,925,000 | 39,075,000 | 520 | 742 | -0.154163129 | |
| 12 | 39,000,000 | 39,150,000 | 521 | 657 | 0.372265593 | |
| 12 | 39,075,000 | 39,225,000 | 522 | 500 | -0.361251036 | |
| 12 | 39,150,000 | 39,300,000 | 523 | 361 | -1.552756758 | |
| 12 | 39,225,000 | 39,375,000 | 524 | 606 | 0.356468652 | |
| 12 | 39,300,000 | 39,450,000 | 525 | 633 | 0.663966253 | |
| 12 | 39,375,000 | 39,525,000 | 526 | 463 | -0.187194029 | |
| 12 | 39,450,000 | 39,600,000 | 527 | 887 | -0.20038227 | |
| 12 | 39,525,000 | 39,675,000 | 528 | 1082 | -1.358362362 | |
| 12 | 39,600,000 | 39,750,000 | 529 | 689 | -2.288826692 | |
| 12 | 39,675,000 | 39,825,000 | 530 | 493 | -0.83540719 | |
| 12 | 39,750,000 | 39,900,000 | 531 | 666 | -0.923523931 | |
| 12 | 39,825,000 | 39,975,000 | 532 | 602 | -0.748623069 | ENSBTAG00000032984 |
| 12 | 39,900,000 | 40,050,000 | 533 | 481 | 0.225679872 | ENSBTAG00000032984 |
| 12 | 39,975,000 | 40,125,000 | 534 | 681 | 0.273623473 | |
| 12 | 40,050,000 | 40,200,000 | 535 | 582 | 0.216112594 | |
| 12 | 40,125,000 | 40,275,000 | 536 | 557 | -0.201063357 | |
| 12 | 40,200,000 | 40,350,000 | 537 | 533 | -0.488117893 | |
| 12 | 40,275,000 | 40,425,000 | 538 | 310 | 0.18323759 | |
| 12 | 40,350,000 | 40,500,000 | 539 | 525 | 0.731464415 | |
| 12 | 40,425,000 | 40,575,000 | 540 | 704 | 0.402457159 | |
| 12 | 40,500,000 | 40,650,000 | 541 | 618 | 0.495013386 | |
| 12 | 40,575,000 | 40,725,000 | 542 | 626 | 0.92296011 | ENSBTAG00000047831 |
| 12 | 40,650,000 | 40,800,000 | 543 | 430 | 0.416586473 | ENSBTAG00000047831 |
| 12 | 40,725,000 | 40,875,000 | 544 | 307 | -5.207506817 | |
| 12 | 40,800,000 | 40,950,000 | 545 | 386 | -3.971164667 | PCDH9 |
| 12 | 40,875,000 | 41,025,000 | 546 | 664 | 0.86114825 | PCDH9 |
| 12 | 40,950,000 | 41,100,000 | 547 | 940 | 0.873054498 | |
| 12 | 41,025,000 | 41,175,000 | 548 | 669 | 0.707734012 | |
| 12 | 41,100,000 | 41,250,000 | 549 | 670 | 0.452263474 | |
| 12 | 41,175,000 | 41,325,000 | 550 | 675 | -0.050699348 | |
| 12 | 41,250,000 | 41,400,000 | 551 | 426 | -1.314452173 | |
| 12 | 41,325,000 | 41,475,000 | 552 | 387 | -1.29829415 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 41,400,000 | 41,550,000 | 553 | 311 | -0.547815227 | |
| 12 | 41,475,000 | 41,625,000 | 554 | 368 | -1.50435224 | |
| 12 | 41,550,000 | 41,700,000 | 555 | 584 | -4.114809524 | |
| 12 | 41,625,000 | 41,775,000 | 556 | 892 | -5.312225577 | |
| 12 | 41,700,000 | 41,850,000 | 557 | 991 | -5.355799851 | |
| 12 | 41,775,000 | 41,925,000 | 558 | 722 | -4.31919534 | ENSBTAG00000032979 |
| 12 | 41,850,000 | 42,000,000 | 559 | 434 | -1.611485583 | ENSBTAG00000032979 |
| 12 | 41,925,000 | 42,075,000 | 560 | 368 | -2.229192613 | |
| 12 | 42,000,000 | 42,150,000 | 561 | 735 | -2.793654812 | |
| 12 | 42,075,000 | 42,225,000 | 562 | 675 | -2.980387807 | |
| 12 | 42,150,000 | 42,300,000 | 563 | 259 | -2.343007991 | |
| 12 | 42,225,000 | 42,375,000 | 564 | 349 | -0.148051119 | |
| 12 | 42,300,000 | 42,450,000 | 565 | 633 | -0.003629084 | |
| 12 | 42,375,000 | 42,525,000 | 566 | 710 | 0.079138155 | |
| 12 | 42,450,000 | 42,600,000 | 567 | 556 | -0.306281025 | |
| 12 | 42,525,000 | 42,675,000 | 568 | 450 | -0.894940743 | |
| 12 | 42,600,000 | 42,750,000 | 569 | 383 | -0.731321731 | |
| 12 | 42,675,000 | 42,825,000 | 570 | 328 | -2.702275678 | |
| 12 | 42,750,000 | 42,900,000 | 571 | 250 | -4.429533371 | |
| 12 | 42,825,000 | 42,975,000 | 572 | 323 | -1.466404344 | |
| 12 | 42,900,000 | 43,050,000 | 573 | 669 | 0.387069538 | |
| 12 | 42,975,000 | 43,125,000 | 574 | 748 | 0.967493433 | |
| 12 | 43,050,000 | 43,200,000 | 575 | 586 | 1.037454792 | |
| 12 | 43,125,000 | 43,275,000 | 576 | 518 | 0.876812675 | |
| 12 | 43,200,000 | 43,350,000 | 577 | 367 | 0.731560643 | |
| 12 | 43,275,000 | 43,425,000 | 578 | 410 | 0.568783231 | |
| 12 | 43,350,000 | 43,500,000 | 579 | 853 | -0.217282229 | |
| 12 | 43,425,000 | 43,575,000 | 580 | 893 | -0.24555088 | |
| 12 | 43,500,000 | 43,650,000 | 581 | 747 | -1.117040726 | |
| 12 | 43,575,000 | 43,725,000 | 582 | 944 | -1.732332441 | |
| 12 | 43,650,000 | 43,800,000 | 583 | 923 | -0.610453739 | |
| 12 | 43,725,000 | 43,875,000 | 584 | 596 | 0.362020879 | |
| 12 | 43,800,000 | 43,950,000 | 585 | 305 | 0.754053281 | |
| 12 | 43,875,000 | 44,025,000 | 586 | 296 | 0.631267943 | |
| 12 | 43,950,000 | 44,100,000 | 587 | 313 | 0.270091528 | |
| 12 | 44,025,000 | 44,175,000 | 588 | 318 | -2.315905721 | |
| 12 | 44,100,000 | 44,250,000 | 589 | 684 | -0.362680887 | |
| 12 | 44,175,000 | 44,325,000 | 590 | 785 | 0.310588864 | KLHL1 |
| 12 | 44,250,000 | 44,400,000 | 591 | 1210 | 0.564875938 | KLHL1 |
| 12 | 44,325,000 | 44,475,000 | 592 | 1703 | 0.643134583 | KLHL1 |
| 12 | 44,400,000 | 44,550,000 | 593 | 1136 | 0.328472238 | KLHL1 |
| 12 | 44,475,000 | 44,625,000 | 594 | 847 | -0.672431056 | KLHL1 |
| 12 | 44,550,000 | 44,700,000 | 595 | 919 | -1.356532095 | KLHL1 |
| 12 | 44,625,000 | 44,775,000 | 596 | 872 | -1.061928354 | |
| 12 | 44,700,000 | 44,850,000 | 597 | 806 | -0.499155914 | ENSBTAG00000046942 |
| 12 | 44,775,000 | 44,925,000 | 598 | 1002 | 0.445032537 | ENSBTAG00000046942 |
| 12 | 44,850,000 | 45,000,000 | 599 | 1144 | 1.011577331 | |
| 12 | 44,925,000 | 45,075,000 | 600 | 795 | 0.927563276 | |
| 12 | 45,000,000 | 45,150,000 | 601 | 556 | 0.511497303 | |
| 12 | 45,075,000 | 45,225,000 | 602 | 644 | 0.96235149 | |
| 12 | 45,150,000 | 45,300,000 | 603 | 710 | 0.626279476 | |
| 12 | 45,225,000 | 45,375,000 | 604 | 575 | -0.079072568 | |
| 12 | 45,300,000 | 45,450,000 | 605 | 695 | 0.176879541 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 12 | 45,375,000 | 45,525,000 | 606 | 688 | 0.027024277 | |
| 12 | 45,450,000 | 45,600,000 | 607 | 948 | -2.74864691 | |
| 12 | 45,525,000 | 45,675,000 | 608 | 1296 | -2.146310344 | |
| 12 | 45,600,000 | 45,750,000 | 609 | 1039 | -0.962452825 | |
| 12 | 45,675,000 | 45,825,000 | 610 | 766 | -1.21260573 | |
| 12 | 45,750,000 | 45,900,000 | 611 | 574 | -0.504175021 | |
| 12 | 45,825,000 | 45,975,000 | 612 | 762 | 0.567409339 | |
| 12 | 45,900,000 | 46,050,000 | 613 | 735 | 0.526181036 | |
| 12 | 45,975,000 | 46,125,000 | 614 | 480 | -0.237700259 | |
| 12 | 46,050,000 | 46,200,000 | 615 | 763 | -0.420109294 | |
| 12 | 46,125,000 | 46,275,000 | 616 | 1054 | -0.095205505 | |
| 12 | 46,200,000 | 46,350,000 | 617 | 1079 | 0.903881588 | |
| 12 | 46,275,000 | 46,425,000 | 618 | 919 | 1.113721718 | DACH1 |
| 12 | 46,350,000 | 46,500,000 | 619 | 566 | 0.958692724 | DACH1 |
| 12 | 46,425,000 | 46,575,000 | 620 | 281 | 0.999969558 | DACH1 |
| 12 | 46,500,000 | 46,650,000 | 621 | 332 | 0.810570241 | |
| 12 | 46,575,000 | 46,725,000 | 622 | 833 | 0.866734295 | |
| 12 | 46,650,000 | 46,800,000 | 623 | 971 | 0.763645768 | |
| 12 | 46,725,000 | 46,875,000 | 624 | 645 | 0.57960998 | |
| 12 | 46,800,000 | 46,950,000 | 625 | 768 | 0.80169317 | |
| 12 | 46,875,000 | 47,025,000 | 626 | 871 | 0.691071066 | |
| 12 | 46,950,000 | 47,100,000 | 627 | 644 | 0.78686557 | |
| 12 | 47,025,000 | 47,175,000 | 628 | 555 | 1.113373685 | |
| 12 | 47,100,000 | 47,250,000 | 629 | 520 | 1.005884195 | |
| 12 | 47,175,000 | 47,325,000 | 630 | 748 | -0.717802128 | |
| 12 | 47,250,000 | 47,400,000 | 631 | 1364 | 0.208661566 | |
| 12 | 47,325,000 | 47,475,000 | 632 | 1141 | 0.632394462 | |
| 12 | 47,400,000 | 47,550,000 | 633 | 593 | -0.258268455 | |
| 12 | 47,475,000 | 47,625,000 | 634 | 745 | -0.128388813 | |
| 12 | 47,550,000 | 47,700,000 | 635 | 872 | 0.091947231 | |
| 12 | 47,625,000 | 47,775,000 | 636 | 1050 | 0.766212088 | MZT1 |
| 12 | 47,700,000 | 47,850,000 | 637 | 964 | 0.917450795 | BORA,DIS3,MZT1,PIBF1 |
| 12 | 47,775,000 | 47,925,000 | 638 | 539 | 1.06434381 | BORA,DIS3,MZT1,PIBF1 |
| 12 | 47,850,000 | 48,000,000 | 639 | 391 | 1.083955486 | PIBF1 |
| 12 | 47,925,000 | 48,075,000 | 640 | 371 | 0.926548625 | PIBF1 |
| 12 | 48,000,000 | 48,150,000 | 641 | 525 | 0.582952908 | KLF5,PIBF1 |
| 12 | 48,075,000 | 48,225,000 | 642 | 461 | 0.11670358 | KLF5 |
| 12 | 48,150,000 | 48,300,000 | 643 | 340 | 0.326163843 | |
| 12 | 48,225,000 | 48,375,000 | 644 | 435 | 0.184795194 | |
| 12 | 48,300,000 | 48,450,000 | 645 | 341 | -0.022283266 | |
| 12 | 48,375,000 | 48,525,000 | 646 | 272 | 0.523578122 | |
| 12 | 48,450,000 | 48,600,000 | 647 | 537 | -0.195386942 | |
| 12 | 48,525,000 | 48,675,000 | 648 | 803 | 0.09562715 | |
| 12 | 48,600,000 | 48,750,000 | 649 | 930 | 0.801337074 | |
| 12 | 48,675,000 | 48,825,000 | 650 | 971 | 1.020665225 | |
| 12 | 48,750,000 | 48,900,000 | 651 | 658 | 0.856755385 | KLF12 |
| 12 | 48,825,000 | 48,975,000 | 652 | 757 | -0.104069032 | KLF12 |
| 12 | 48,900,000 | 49,050,000 | 653 | 700 | -0.972006773 | KLF12 |
| 12 | 48,975,000 | 49,125,000 | 654 | 301 | -1.663766345 | KLF12 |
| 12 | 49,050,000 | 49,200,000 | 655 | 277 | -2.716755649 | KLF12 |
| 12 | 49,125,000 | 49,275,000 | 656 | 383 | -2.438097734 | |
| 12 | 49,200,000 | 49,350,000 | 657 | 390 | 0.004899462 | |
| 12 | 49,275,000 | 49,425,000 | 658 | 632 | 0.862762571 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 12 | 49,350,000 | 49,500,000 | 659 | 1133 | 0.82923935 | |
| 12 | 49,425,000 | 49,575,000 | 660 | 1104 | 0.810961201 | |
| 12 | 49,500,000 | 49,650,000 | 661 | 920 | 0.921747148 | |
| 12 | 49,575,000 | 49,725,000 | 662 | 1361 | 1.12830593 | |
| 12 | 49,650,000 | 49,800,000 | 663 | 1137 | 0.922990522 | |
| 12 | 49,725,000 | 49,875,000 | 664 | 507 | 0.251236338 | |
| 12 | 49,800,000 | 49,950,000 | 665 | 596 | -0.63693968 | |
| 12 | 49,875,000 | 50,025,000 | 666 | 608 | -0.371338423 | |
| 12 | 49,950,000 | 50,100,000 | 667 | 656 | 0.368454966 | |
| 12 | 50,025,000 | 50,175,000 | 668 | 697 | 0.413226507 | |
| 12 | 50,100,000 | 50,250,000 | 669 | 646 | 0.416278648 | |
| 12 | 50,175,000 | 50,325,000 | 670 | 577 | 0.290407289 | |
| 12 | 50,250,000 | 50,400,000 | 671 | 562 | 0.085165188 | |
| 12 | 50,325,000 | 50,475,000 | 672 | 676 | -0.174020455 | |
| 12 | 50,400,000 | 50,550,000 | 673 | 724 | -0.038521925 | |
| 12 | 50,475,000 | 50,625,000 | 674 | 764 | -1.423068533 | |
| 12 | 50,550,000 | 50,700,000 | 675 | 759 | -0.923477938 | TBC1D4 |
| 12 | 50,625,000 | 50,775,000 | 676 | 899 | -0.07026624 | TBC1D4 |
| 12 | 50,700,000 | 50,850,000 | 677 | 759 | -0.89339213 | TBC1D4 |
| 12 | 50,775,000 | 50,925,000 | 678 | 799 | -0.010212943 | TBC1D4 |
| 12 | 50,850,000 | 51,000,000 | 679 | 979 | -0.111004073 | TBC1D4,UCHL3 |
| 12 | 50,925,000 | 51,075,000 | 680 | 721 | -0.455084348 | UCHL3,ENSBTAG00000010680 |
| 12 | 51,000,000 | 51,150,000 | 681 | 908 | 0.219487724 | LMO7,ENSBTAG00000010680 |
| 12 | 51,075,000 | 51,225,000 | 682 | 1002 | 0.670279501 | LMO7 |
| 12 | 51,150,000 | 51,300,000 | 683 | 1064 | 1.081201126 | LMO7 |
| 12 | 51,225,000 | 51,375,000 | 684 | 1308 | 0.946345984 | LMO7,ENSBTAG00000032878 |
| 12 | 51,300,000 | 51,450,000 | 685 | 1336 | 0.819565028 | ENSBTAG00000032878 |
| 12 | 51,375,000 | 51,525,000 | 686 | 1032 | 0.686223677 | |
| 12 | 51,450,000 | 51,600,000 | 687 | 473 | 0.52183457 | |
| 12 | 51,525,000 | 51,675,000 | 688 | 409 | 0.069946591 | |
| 12 | 51,600,000 | 51,750,000 | 689 | 615 | 0.187888389 | |
| 12 | 51,675,000 | 51,825,000 | 690 | 699 | 0.878861305 | |
| 12 | 51,750,000 | 51,900,000 | 691 | 710 | 1.095857014 | |
| 12 | 51,825,000 | 51,975,000 | 692 | 584 | 1.039360187 | |
| 12 | 51,900,000 | 52,050,000 | 693 | 737 | 0.749228181 | |
| 12 | 51,975,000 | 52,125,000 | 694 | 1196 | 0.02650481 | |
| 12 | 52,050,000 | 52,200,000 | 695 | 1048 | -0.271247084 | |
| 12 | 52,125,000 | 52,275,000 | 696 | 518 | 0.463412834 | |
| 12 | 52,200,000 | 52,350,000 | 697 | 315 | 0.945622107 | |
| 12 | 52,275,000 | 52,425,000 | 698 | 311 | 0.157273155 | IRG1,KCTD12 |
| 12 | 52,350,000 | 52,500,000 | 699 | 477 | 0.270680154 | CLN5,FBXL3,IRG1,KCTD12,MYCBP2 |
| 12 | 52,425,000 | 52,575,000 | 700 | 436 | 0.655960142 | CLN5,FBXL3,MYCBP2 |
| 12 | 52,500,000 | 52,650,000 | 701 | 262 | -0.052997333 | MYCBP2 |
| 12 | 52,575,000 | 52,725,000 | 702 | 243 | -0.199878001 | MYCBP2 |
| 12 | 52,650,000 | 52,800,000 | 703 | 254 | 0.444360413 | MYCBP2 |
| 12 | 52,725,000 | 52,875,000 | 704 | 461 | 0.595369691 | MYCBP2 |
| 12 | 52,800,000 | 52,950,000 | 705 | 632 | 0.674810429 | |
| 12 | 52,875,000 | 53,025,000 | 706 | 725 | 0.379339705 | |
| 12 | 52,950,000 | 53,100,000 | 707 | 757 | 0.26910232 | SCEL |
| 12 | 53,025,000 | 53,175,000 | 708 | 559 | 0.367531743 | SCEL |
| 12 | 53,100,000 | 53,250,000 | 709 | 515 | 0.082258141 | SCEL,SLAIN1 |
| 12 | 53,175,000 | 53,325,000 | 710 | 758 | -0.187443533 | EDNRB,SLAIN1 |
| 12 | 53,250,000 | 53,400,000 | 711 | 703 | -0.437518712 | EDNRB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 12 | 53,325,000 | 53,475,000 | 712 | 566 | 0.031544997 | EDNRB |
| 12 | 53,400,000 | 53,550,000 | 713 | 766 | 0.577165397 | EDNRB |
| 12 | 53,475,000 | 53,625,000 | 714 | 941 | 0.635673378 | |
| 12 | 53,550,000 | 53,700,000 | 715 | 1215 | 0.502554225 | |
| 12 | 53,625,000 | 53,775,000 | 716 | 1413 | 0.802898366 | |
| 12 | 53,700,000 | 53,850,000 | 717 | 1353 | 0.762938829 | |
| 12 | 53,775,000 | 53,925,000 | 718 | 1196 | 0.899231595 | |
| 12 | 53,850,000 | 54,000,000 | 719 | 975 | 1.2553417 | |
| 12 | 53,925,000 | 54,075,000 | 720 | 773 | 1.267092964 | |
| 12 | 54,000,000 | 54,150,000 | 721 | 564 | 1.133355427 | RNF219 |
| 12 | 54,075,000 | 54,225,000 | 722 | 675 | 0.508698009 | RNF219 |
| 12 | 54,150,000 | 54,300,000 | 723 | 916 | 0.347331814 | |
| 12 | 54,225,000 | 54,375,000 | 724 | 1346 | 0.546689066 | |
| 12 | 54,300,000 | 54,450,000 | 725 | 1626 | 0.502121415 | |
| 12 | 54,375,000 | 54,525,000 | 726 | 1234 | 0.010330784 | |
| 12 | 54,450,000 | 54,600,000 | 727 | 911 | 0.10035934 | |
| 12 | 54,525,000 | 54,675,000 | 728 | 735 | 0.995324474 | |
| 12 | 54,600,000 | 54,750,000 | 729 | 746 | 0.91831876 | |
| 12 | 54,675,000 | 54,825,000 | 730 | 558 | -0.309579669 | RBM26 |
| 12 | 54,750,000 | 54,900,000 | 731 | 361 | -1.602410281 | RBM26 |
| 12 | 54,825,000 | 54,975,000 | 732 | 401 | -0.884148667 | NDFIP2,RBM26 |
| 12 | 54,900,000 | 55,050,000 | 733 | 546 | 0.456764722 | NDFIP2,ENSBTAG00000032727 |
| 12 | 54,975,000 | 55,125,000 | 734 | 890 | 0.484363183 | NDFIP2,ENSBTAG00000032727 |
| 12 | 55,050,000 | 55,200,000 | 735 | 674 | -0.12380884 | |
| 12 | 55,125,000 | 55,275,000 | 736 | 356 | -0.551336178 | |
| 12 | 55,200,000 | 55,350,000 | 737 | 566 | 0.738404105 | |
| 12 | 55,275,000 | 55,425,000 | 738 | 689 | -0.581287441 | |
| 12 | 55,350,000 | 55,500,000 | 739 | 606 | -2.38351884 | |
| 12 | 55,425,000 | 55,575,000 | 740 | 530 | -1.536024508 | |
| 12 | 55,500,000 | 55,650,000 | 741 | 477 | -3.187005181 | |
| 12 | 55,575,000 | 55,725,000 | 742 | 560 | -4.886154999 | SPRY2 |
| 12 | 55,650,000 | 55,800,000 | 743 | 514 | -3.615938653 | SPRY2 |
| 12 | 55,725,000 | 55,875,000 | 744 | 627 | -1.154911196 | |
| 12 | 55,800,000 | 55,950,000 | 745 | 973 | -1.288860195 | |
| 12 | 55,875,000 | 56,025,000 | 746 | 923 | -0.66531344 | |
| 12 | 55,950,000 | 56,100,000 | 747 | 525 | 0.279573713 | |
| 12 | 56,025,000 | 56,175,000 | 748 | 217 | -0.011265806 | |
| 12 | 56,100,000 | 56,250,000 | 749 | 354 | 0.250053399 | |
| 12 | 56,175,000 | 56,325,000 | 750 | 446 | 0.166865539 | |
| 12 | 56,250,000 | 56,400,000 | 751 | 542 | 0.981244126 | |
| 12 | 56,325,000 | 56,475,000 | 752 | 559 | 0.922163852 | |
| 12 | 56,400,000 | 56,550,000 | 753 | 474 | 0.527636136 | |
| 12 | 56,475,000 | 56,625,000 | 754 | 498 | 0.898959143 | |
| 12 | 56,550,000 | 56,700,000 | 755 | 550 | 0.503423121 | |
| 12 | 56,625,000 | 56,775,000 | 756 | 636 | 0.205512403 | |
| 12 | 56,700,000 | 56,850,000 | 757 | 569 | 0.149984115 | |
| 12 | 56,775,000 | 56,925,000 | 758 | 459 | 0.475990801 | |
| 12 | 56,850,000 | 57,000,000 | 759 | 310 | 0.384656155 | |
| 12 | 56,925,000 | 57,075,000 | 760 | 303 | -1.279290234 | |
| 12 | 57,000,000 | 57,150,000 | 761 | 780 | 0.527401058 | |
| 12 | 57,075,000 | 57,225,000 | 762 | 1226 | 1.043757534 | |
| 12 | 57,150,000 | 57,300,000 | 763 | 1086 | 1.103034821 | |
| 12 | 57,225,000 | 57,375,000 | 764 | 850 | 0.928117038 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------|
| 12 | 57,300,000 | 57,450,000 | 765 | 840 | 0.580666355 | |
| 12 | 57,375,000 | 57,525,000 | 766 | 722 | 0.398352397 | |
| 12 | 57,450,000 | 57,600,000 | 767 | 573 | -0.402951032 | |
| 12 | 57,525,000 | 57,675,000 | 768 | 667 | -1.024348029 | |
| 12 | 57,600,000 | 57,750,000 | 769 | 1099 | -1.15731444 | |
| 12 | 57,675,000 | 57,825,000 | 770 | 1188 | -0.427161544 | |
| 12 | 57,750,000 | 57,900,000 | 771 | 841 | 0.559995601 | |
| 12 | 57,825,000 | 57,975,000 | 772 | 887 | 0.923055642 | |
| 12 | 57,900,000 | 58,050,000 | 773 | 1204 | 1.224690411 | |
| 12 | 57,975,000 | 58,125,000 | 774 | 1354 | 1.158679356 | |
| 12 | 58,050,000 | 58,200,000 | 775 | 1222 | 0.906298464 | |
| 12 | 58,125,000 | 58,275,000 | 776 | 793 | 0.900689488 | |
| 12 | 58,200,000 | 58,350,000 | 777 | 484 | 0.861598786 | |
| 12 | 58,275,000 | 58,425,000 | 778 | 653 | 0.3857418 | |
| 12 | 58,350,000 | 58,500,000 | 779 | 948 | 0.661726116 | |
| 12 | 58,425,000 | 58,575,000 | 780 | 973 | 0.298671648 | |
| 12 | 58,500,000 | 58,650,000 | 781 | 1122 | -0.42791077 | |
| 12 | 58,575,000 | 58,725,000 | 782 | 1316 | 0.26272251 | |
| 12 | 58,650,000 | 58,800,000 | 783 | 1076 | 0.667865135 | |
| 12 | 58,725,000 | 58,875,000 | 784 | 805 | 0.428276651 | |
| 12 | 58,800,000 | 58,950,000 | 785 | 735 | 0.541990941 | |
| 12 | 58,875,000 | 59,025,000 | 786 | 651 | 0.676245604 | |
| 12 | 58,950,000 | 59,100,000 | 787 | 461 | 0.118809373 | |
| 12 | 59,025,000 | 59,175,000 | 788 | 714 | -0.03192087 | SLITRK1 |
| 12 | 59,100,000 | 59,250,000 | 789 | 859 | 0.053279777 | SLITRK1 |
| 12 | 59,175,000 | 59,325,000 | 790 | 613 | -0.076321431 | |
| 12 | 59,250,000 | 59,400,000 | 791 | 396 | -1.139934881 | |
| 12 | 59,325,000 | 59,475,000 | 792 | 813 | -1.797524673 | |
| 12 | 59,400,000 | 59,550,000 | 793 | 991 | -0.596549557 | |
| 12 | 59,475,000 | 59,625,000 | 794 | 523 | 0.927915103 | |
| 12 | 59,550,000 | 59,700,000 | 795 | 337 | 0.321221675 | |
| 12 | 59,625,000 | 59,775,000 | 796 | 600 | -0.235909644 | |
| 12 | 59,700,000 | 59,850,000 | 797 | 746 | 0.395790388 | |
| 12 | 59,775,000 | 59,925,000 | 798 | 956 | 0.538360689 | |
| 12 | 59,850,000 | 60,000,000 | 799 | 1353 | 0.352366863 | |
| 12 | 59,925,000 | 60,075,000 | 800 | 1320 | 0.425005605 | |
| 12 | 60,000,000 | 60,150,000 | 801 | 1176 | 0.76689553 | |
| 12 | 60,075,000 | 60,225,000 | 802 | 1051 | -2.34079115 | |
| 12 | 60,150,000 | 60,300,000 | 803 | 1032 | -5.070997492 | |
| 12 | 60,225,000 | 60,375,000 | 804 | 720 | -3.362784625 | |
| 12 | 60,300,000 | 60,450,000 | 805 | 845 | -0.954848643 | |
| 12 | 60,375,000 | 60,525,000 | 806 | 1099 | -0.604899796 | |
| 12 | 60,450,000 | 60,600,000 | 807 | 770 | 0.249243872 | |
| 12 | 60,525,000 | 60,675,000 | 808 | 763 | 0.651470752 | |
| 12 | 60,600,000 | 60,750,000 | 809 | 883 | -0.238613359 | |
| 12 | 60,675,000 | 60,825,000 | 810 | 865 | 0.335201705 | |
| 12 | 60,750,000 | 60,900,000 | 811 | 669 | 1.117879516 | |
| 12 | 60,825,000 | 60,975,000 | 812 | 615 | 1.009762115 | |
| 12 | 60,900,000 | 61,050,000 | 813 | 744 | 0.450190378 | |
| 12 | 60,975,000 | 61,125,000 | 814 | 759 | 0.482833269 | SLITRK6 |
| 12 | 61,050,000 | 61,200,000 | 815 | 973 | 1.094456114 | SLITRK6 |
| 12 | 61,125,000 | 61,275,000 | 816 | 1092 | -0.129033716 | |
| 12 | 61,200,000 | 61,350,000 | 817 | 1110 | -0.641345064 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------|
| 12 | 61,275,000 | 61,425,000 | 818 | 1168 | -0.071760371 | |
| 12 | 61,350,000 | 61,500,000 | 819 | 999 | 0.30173257 | |
| 12 | 61,425,000 | 61,575,000 | 820 | 592 | 0.967124897 | HTATSF1 |
| 12 | 61,500,000 | 61,650,000 | 821 | 397 | -0.202575862 | HTATSF1 |
| 12 | 61,575,000 | 61,725,000 | 822 | 494 | 0.402532719 | |
| 12 | 61,650,000 | 61,800,000 | 823 | 877 | 1.021445225 | |
| 12 | 61,725,000 | 61,875,000 | 824 | 1146 | 0.835348866 | |
| 12 | 61,800,000 | 61,950,000 | 825 | 872 | 0.16525815 | |
| 12 | 61,875,000 | 62,025,000 | 826 | 778 | -1.202386436 | |
| 12 | 61,950,000 | 62,100,000 | 827 | 1106 | -0.334369259 | |
| 12 | 62,025,000 | 62,175,000 | 828 | 1357 | 0.679351138 | |
| 12 | 62,100,000 | 62,250,000 | 829 | 1421 | 1.099214137 | |
| 12 | 62,175,000 | 62,325,000 | 830 | 1447 | 1.00319623 | |
| 12 | 62,250,000 | 62,400,000 | 831 | 1220 | 0.690598274 | |
| 12 | 62,325,000 | 62,475,000 | 832 | 1415 | -1.072825657 | |
| 12 | 62,400,000 | 62,550,000 | 833 | 1378 | -0.947635821 | |
| 12 | 62,475,000 | 62,625,000 | 834 | 753 | 0.328975766 | |
| 12 | 62,550,000 | 62,700,000 | 835 | 744 | 0.166182433 | SLITRK5 |
| 12 | 62,625,000 | 62,775,000 | 836 | 930 | 0.143745013 | SLITRK5 |
| 12 | 62,700,000 | 62,850,000 | 837 | 744 | -0.489978706 | |
| 12 | 62,775,000 | 62,925,000 | 838 | 441 | -0.502751463 | |
| 12 | 62,850,000 | 63,000,000 | 839 | 465 | -1.543611426 | |
| 12 | 62,925,000 | 63,075,000 | 840 | 716 | -1.430507125 | |
| 12 | 63,000,000 | 63,150,000 | 841 | 858 | -0.515623351 | |
| 12 | 63,075,000 | 63,225,000 | 842 | 1154 | 0.090838347 | |
| 12 | 63,150,000 | 63,300,000 | 843 | 1456 | -0.01716177 | |
| 12 | 63,225,000 | 63,375,000 | 844 | 1096 | -0.065097124 | |
| 12 | 63,300,000 | 63,450,000 | 845 | 1278 | 0.167004398 | |
| 12 | 63,375,000 | 63,525,000 | 846 | 1246 | 0.316505601 | |
| 12 | 63,450,000 | 63,600,000 | 847 | 810 | 0.664344719 | |
| 12 | 63,525,000 | 63,675,000 | 848 | 1267 | -0.031574507 | |
| 12 | 63,600,000 | 63,750,000 | 849 | 1084 | -0.231497105 | |
| 12 | 63,675,000 | 63,825,000 | 850 | 621 | -0.229107064 | |
| 12 | 63,750,000 | 63,900,000 | 851 | 607 | -0.07148391 | |
| 12 | 63,825,000 | 63,975,000 | 852 | 569 | 0.625482994 | |
| 12 | 63,900,000 | 64,050,000 | 853 | 677 | -0.716197417 | |
| 12 | 63,975,000 | 64,125,000 | 854 | 1005 | -1.174782836 | |
| 12 | 64,050,000 | 64,200,000 | 855 | 1424 | -0.246871246 | |
| 12 | 64,125,000 | 64,275,000 | 856 | 1323 | 0.206991169 | |
| 12 | 64,200,000 | 64,350,000 | 857 | 700 | 0.827669519 | |
| 12 | 64,275,000 | 64,425,000 | 858 | 760 | -0.392207189 | |
| 12 | 64,350,000 | 64,500,000 | 859 | 1175 | 0.497119679 | |
| 12 | 64,425,000 | 64,575,000 | 860 | 990 | 0.924663908 | |
| 12 | 64,500,000 | 64,650,000 | 861 | 1085 | 0.447966722 | |
| 12 | 64,575,000 | 64,725,000 | 862 | 1190 | -0.127219463 | |
| 12 | 64,650,000 | 64,800,000 | 863 | 1296 | 0.361751378 | |
| 12 | 64,725,000 | 64,875,000 | 864 | 1150 | 1.095308008 | |
| 12 | 64,800,000 | 64,950,000 | 865 | 540 | 0.688497539 | |
| 12 | 64,875,000 | 65,025,000 | 866 | 398 | 0.177373503 | |
| 12 | 64,950,000 | 65,100,000 | 867 | 631 | -0.252499368 | |
| 12 | 65,025,000 | 65,175,000 | 868 | 730 | -0.507170973 | |
| 12 | 65,100,000 | 65,250,000 | 869 | 812 | -0.022142283 | |
| 12 | 65,175,000 | 65,325,000 | 870 | 815 | 0.878664288 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------|
| 12 | 65,250,000 | 65,400,000 | 871 | 499 | 0.642730613 | |
| 12 | 65,325,000 | 65,475,000 | 872 | 557 | -2.234555781 | |
| 12 | 65,400,000 | 65,550,000 | 873 | 593 | -1.41963011 | |
| 12 | 65,475,000 | 65,625,000 | 874 | 563 | 0.1654746 | |
| 12 | 65,550,000 | 65,700,000 | 875 | 663 | -0.518703083 | |
| 12 | 65,625,000 | 65,775,000 | 876 | 733 | -0.003404045 | |
| 12 | 65,700,000 | 65,850,000 | 877 | 820 | 0.981778478 | |
| 12 | 65,775,000 | 65,925,000 | 878 | 922 | 0.877193722 | |
| 12 | 65,850,000 | 66,000,000 | 879 | 849 | 0.393109897 | |
| 12 | 65,925,000 | 66,075,000 | 880 | 522 | 0.380846637 | |
| 12 | 66,000,000 | 66,150,000 | 881 | 344 | 0.850465619 | |
| 12 | 66,075,000 | 66,225,000 | 882 | 436 | 0.265599195 | |
| 12 | 66,150,000 | 66,300,000 | 883 | 540 | -0.304685417 | GPC5 |
| 12 | 66,225,000 | 66,375,000 | 884 | 593 | 0.400978926 | GPC5 |
| 12 | 66,300,000 | 66,450,000 | 885 | 541 | 1.126738697 | GPC5 |
| 12 | 66,375,000 | 66,525,000 | 886 | 375 | 1.252754117 | GPC5 |
| 12 | 66,450,000 | 66,600,000 | 887 | 317 | 1.328044703 | GPC5 |
| 12 | 66,525,000 | 66,675,000 | 888 | 611 | 0.463495498 | GPC5 |
| 12 | 66,600,000 | 66,750,000 | 889 | 912 | -0.161507718 | GPC5 |
| 12 | 66,675,000 | 66,825,000 | 890 | 628 | 0.028562912 | GPC5 |
| 12 | 66,750,000 | 66,900,000 | 891 | 538 | 0.928438877 | GPC5 |
| 12 | 66,825,000 | 66,975,000 | 892 | 523 | 0.842041306 | GPC5 |
| 12 | 66,900,000 | 67,050,000 | 893 | 363 | 0.152584739 | GPC5 |
| 12 | 66,975,000 | 67,125,000 | 894 | 424 | -0.018973942 | GPC5 |
| 12 | 67,050,000 | 67,200,000 | 895 | 537 | 0.815755407 | GPC5 |
| 12 | 67,125,000 | 67,275,000 | 896 | 611 | 1.129720863 | GPC5 |
| 12 | 67,200,000 | 67,350,000 | 897 | 539 | 0.558015456 | GPC5 |
| 12 | 67,275,000 | 67,425,000 | 898 | 510 | -1.031561761 | GPC5 |
| 12 | 67,350,000 | 67,500,000 | 899 | 568 | -1.680443765 | |
| 12 | 67,425,000 | 67,575,000 | 900 | 467 | -1.376680348 | |
| 12 | 67,500,000 | 67,650,000 | 901 | 408 | 0.456370098 | |
| 12 | 67,575,000 | 67,725,000 | 902 | 702 | 1.130767656 | |
| 12 | 67,650,000 | 67,800,000 | 903 | 678 | 1.222959223 | |
| 12 | 67,725,000 | 67,875,000 | 904 | 572 | 0.216747434 | |
| 12 | 67,800,000 | 67,950,000 | 905 | 739 | 0.28870383 | |
| 12 | 67,875,000 | 68,025,000 | 906 | 972 | 0.332330651 | |
| 12 | 67,950,000 | 68,100,000 | 907 | 804 | -0.20304297 | |
| 12 | 68,025,000 | 68,175,000 | 908 | 839 | -0.298070858 | |
| 12 | 68,100,000 | 68,250,000 | 909 | 1012 | -0.115925067 | GPC6 |
| 12 | 68,175,000 | 68,325,000 | 910 | 854 | 0.167918315 | GPC6 |
| 12 | 68,250,000 | 68,400,000 | 911 | 843 | 0.58231822 | GPC6 |
| 12 | 68,325,000 | 68,475,000 | 912 | 952 | -0.30612607 | GPC6 |
| 12 | 68,400,000 | 68,550,000 | 913 | 933 | -0.424771748 | GPC6 |
| 12 | 68,475,000 | 68,625,000 | 914 | 873 | 0.27672402 | GPC6 |
| 12 | 68,550,000 | 68,700,000 | 915 | 968 | -1.090471802 | GPC6 |
| 12 | 68,625,000 | 68,775,000 | 916 | 952 | -0.753650356 | GPC6 |
| 12 | 68,700,000 | 68,850,000 | 917 | 666 | 0.85441084 | GPC6 |
| 12 | 68,775,000 | 68,925,000 | 918 | 484 | 1.165064249 | |
| 12 | 68,850,000 | 69,000,000 | 919 | 895 | 1.218796126 | |
| 12 | 68,925,000 | 69,075,000 | 920 | 961 | 1.172196278 | |
| 12 | 69,000,000 | 69,150,000 | 921 | 658 | 1.061833483 | |
| 12 | 69,075,000 | 69,225,000 | 922 | 661 | 0.740927056 | |
| 12 | 69,150,000 | 69,300,000 | 923 | 740 | 0.402522394 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 12 | 69,225,000 | 69,375,000 | 924 | 907 | 0.55192142 | |
| 12 | 69,300,000 | 69,450,000 | 925 | 1133 | 0.996885021 | |
| 12 | 69,375,000 | 69,525,000 | 926 | 1440 | 1.018981736 | DCT |
| 12 | 69,450,000 | 69,600,000 | 927 | 1345 | 0.95866933 | DCT |
| 12 | 69,525,000 | 69,675,000 | 928 | 714 | 0.995355773 | DCT,GPR180,TGDS |
| 12 | 69,600,000 | 69,750,000 | 929 | 626 | 0.857393625 | GPR180,SOX21,TGDS |
| 12 | 69,675,000 | 69,825,000 | 930 | 1021 | 0.75205685 | SOX21 |
| 12 | 69,750,000 | 69,900,000 | 931 | 1207 | 0.631687299 | |
| 12 | 69,825,000 | 69,975,000 | 932 | 1086 | 0.617205315 | |
| 12 | 69,900,000 | 70,050,000 | 933 | 1126 | 0.658005348 | ENSBTAG00000032603 |
| 12 | 69,975,000 | 70,125,000 | 934 | 1252 | 0.353890385 | ENSBTAG00000032603 |
| 12 | 70,050,000 | 70,200,000 | 935 | 1156 | 0.326967149 | ENSBTAG00000032603 |
| 12 | 70,125,000 | 70,275,000 | 936 | 1056 | 0.784959829 | ENSBTAG00000032603 |
| 12 | 70,200,000 | 70,350,000 | 937 | 1376 | 0.871265791 | |
| 12 | 70,275,000 | 70,425,000 | 938 | 1445 | 0.395210254 | |
| 12 | 70,350,000 | 70,500,000 | 939 | 1281 | -1.131200932 | |
| 12 | 70,425,000 | 70,575,000 | 940 | 1618 | 0.419839927 | |
| 12 | 70,500,000 | 70,650,000 | 941 | 1865 | 0.314247971 | |
| 12 | 70,575,000 | 70,725,000 | 942 | 1933 | -0.126282995 | |
| 12 | 70,650,000 | 70,800,000 | 943 | 2183 | -0.649203797 | |
| 12 | 70,725,000 | 70,875,000 | 944 | 2353 | -2.281768336 | |
| 12 | 70,800,000 | 70,950,000 | 945 | 2128 | -3.590316466 | |
| 12 | 70,875,000 | 71,025,000 | 946 | 1717 | -3.524758871 | |
| 12 | 70,950,000 | 71,100,000 | 947 | 1596 | -4.320275652 | |
| 12 | 71,025,000 | 71,175,000 | 948 | 1439 | -6.037866797 | |
| 12 | 71,100,000 | 71,250,000 | 949 | 1124 | -4.275253927 | |
| 12 | 71,175,000 | 71,325,000 | 950 | 1770 | -0.245566907 | |
| 12 | 71,250,000 | 71,400,000 | 951 | 2926 | 0.154314859 | |
| 12 | 71,325,000 | 71,475,000 | 952 | 3002 | 0.024179605 | |
| 12 | 71,400,000 | 71,550,000 | 953 | 2096 | 0.03538886 | |
| 12 | 71,475,000 | 71,625,000 | 954 | 1862 | 0.247317252 | |
| 12 | 71,550,000 | 71,700,000 | 955 | 1724 | 0.125299368 | |
| 12 | 71,625,000 | 71,775,000 | 956 | 1553 | 0.255793875 | |
| 12 | 71,700,000 | 71,850,000 | 957 | 1486 | 0.341824533 | ENSBTAG00000047383 |
| 12 | 71,775,000 | 71,925,000 | 958 | 1570 | 0.548731147 | ENSBTAG00000047383 |
| 12 | 71,850,000 | 72,000,000 | 959 | 2447 | 0.496318538 | ENSBTAG00000047383 |
| 12 | 71,925,000 | 72,075,000 | 960 | 2299 | -0.009577716 | ENSBTAG00000045751,ENSBTAG00000047383 |
| 12 | 72,000,000 | 72,150,000 | 961 | 2129 | -0.030172408 | ENSBTAG00000045751 |
| 12 | 72,075,000 | 72,225,000 | 962 | 2602 | 0.221916967 | ENSBTAG00000045751 |
| 12 | 72,150,000 | 72,300,000 | 963 | 2398 | 0.375870072 | ENSBTAG00000045751 |
| 12 | 72,225,000 | 72,375,000 | 964 | 2246 | 0.077241405 | |
| 12 | 72,300,000 | 72,450,000 | 965 | 2420 | 0.420000714 | |
| 12 | 72,375,000 | 72,525,000 | 966 | 2249 | 0.554802815 | |
| 12 | 72,450,000 | 72,600,000 | 967 | 1677 | -0.718214611 | ENSBTAG00000047181 |
| 12 | 72,525,000 | 72,675,000 | 968 | 1394 | -2.83041382 | ENSBTAG00000047181 |
| 12 | 72,600,000 | 72,750,000 | 969 | 1862 | -0.510053877 | ENSBTAG00000047181 |
| 12 | 72,675,000 | 72,825,000 | 970 | 1593 | -0.96870404 | ENSBTAG00000047181 |
| 12 | 72,750,000 | 72,900,000 | 971 | 1324 | -1.954418762 | |
| 12 | 72,825,000 | 72,975,000 | 972 | 1669 | 0.512115965 | |
| 12 | 72,900,000 | 73,050,000 | 973 | 1645 | 0.390934215 | |
| 12 | 72,975,000 | 73,125,000 | 974 | 1632 | 0.176904233 | |
| 12 | 73,050,000 | 73,200,000 | 975 | 1891 | -0.071879538 | |
| 12 | 73,125,000 | 73,275,000 | 976 | 2323 | -0.286908608 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------------|
| 12 | 73,200,000 | 73,350,000 | 977 | 2261 | -0.367897392 | |
| 12 | 73,275,000 | 73,425,000 | 978 | 2069 | -0.066470661 | |
| 12 | 73,350,000 | 73,500,000 | 979 | 1704 | 0.173991689 | |
| 12 | 73,425,000 | 73,575,000 | 980 | 1477 | -0.207644788 | ENSBTAG00000046041 |
| 12 | 73,500,000 | 73,650,000 | 981 | 1316 | -1.122873501 | ENSBTAG00000046041 |
| 12 | 73,575,000 | 73,725,000 | 982 | 1543 | -0.534644664 | ENSBTAG00000046041 |
| 12 | 73,650,000 | 73,800,000 | 983 | 1580 | -0.250404078 | ENSBTAG00000046041 |
| 12 | 73,725,000 | 73,875,000 | 984 | 1821 | -0.218450725 | |
| 12 | 73,800,000 | 73,950,000 | 985 | 1997 | -0.527336609 | ENSBTAG00000047764 |
| 12 | 73,875,000 | 74,025,000 | 986 | 1289 | -0.427826431 | ENSBTAG00000047764 |
| 12 | 73,950,000 | 74,100,000 | 987 | 1665 | 0.236092726 | ENSBTAG00000047764 |
| 12 | 74,025,000 | 74,175,000 | 988 | 1765 | -0.099506657 | |
| 12 | 74,100,000 | 74,250,000 | 989 | 1948 | -0.261681426 | |
| 12 | 74,175,000 | 74,325,000 | 990 | 2376 | -0.133788025 | |
| 12 | 74,250,000 | 74,400,000 | 991 | 2217 | -0.169520344 | |
| 12 | 74,325,000 | 74,475,000 | 992 | 1889 | -0.543969324 | |
| 12 | 74,400,000 | 74,550,000 | 993 | 2412 | -0.863305172 | |
| 12 | 74,475,000 | 74,625,000 | 994 | 2802 | -0.583994472 | |
| 12 | 74,550,000 | 74,700,000 | 995 | 2016 | -0.500127895 | |
| 12 | 74,625,000 | 74,775,000 | 996 | 1636 | -1.209506491 | |
| 12 | 74,700,000 | 74,850,000 | 997 | 1940 | -1.786062472 | ENSBTAG00000023309 |
| 12 | 74,775,000 | 74,925,000 | 998 | 2419 | -6.140531655 | ENSBTAG00000023309 |
| 12 | 74,850,000 | 75,000,000 | 999 | 2042 | -3.849663423 | ENSBTAG00000023309 |
| 12 | 74,925,000 | 75,075,000 | 1000 | 1480 | -1.505708244 | ENSBTAG00000023309 |
| 12 | 75,000,000 | 75,150,000 | 1001 | 1265 | -1.674014263 | |
| 12 | 75,075,000 | 75,225,000 | 1002 | 1650 | 0.120433515 | |
| 12 | 75,150,000 | 75,300,000 | 1003 | 2242 | 0.32738553 | |
| 12 | 75,225,000 | 75,375,000 | 1004 | 2514 | 0.231155047 | |
| 12 | 75,300,000 | 75,450,000 | 1005 | 2276 | 0.169267328 | |
| 12 | 75,375,000 | 75,525,000 | 1006 | 3061 | -0.119792644 | ENSBTAG00000026070 |
| 12 | 75,450,000 | 75,600,000 | 1007 | 3304 | -0.120940584 | ENSBTAG00000026070 |
| 12 | 75,525,000 | 75,675,000 | 1008 | 2482 | 0.298164534 | ENSBTAG00000026070,ENSBTAG00000039714 |
| 12 | 75,600,000 | 75,750,000 | 1009 | 2897 | 0.257074503 | ENSBTAG00000039714 |
| 12 | 75,675,000 | 75,825,000 | 1010 | 3203 | 0.170111493 | ENSBTAG00000039714 |
| 12 | 75,750,000 | 75,900,000 | 1011 | 3161 | -0.058558529 | ENSBTAG00000039714 |
| 12 | 75,825,000 | 75,975,000 | 1012 | 2498 | -0.592967059 | ENSBTAG00000039714 |
| 12 | 75,900,000 | 76,050,000 | 1013 | 1541 | -0.368968776 | |
| 12 | 75,975,000 | 76,125,000 | 1014 | 1831 | 0.187967905 | |
| 12 | 76,050,000 | 76,200,000 | 1015 | 2421 | 0.005383407 | |
| 12 | 76,125,000 | 76,275,000 | 1016 | 2132 | -0.123216312 | |
| 12 | 76,200,000 | 76,350,000 | 1017 | 1945 | -0.129429277 | |
| 12 | 76,275,000 | 76,425,000 | 1018 | 2215 | -0.171950067 | |
| 12 | 76,350,000 | 76,500,000 | 1019 | 2538 | -0.174212255 | |
| 12 | 76,425,000 | 76,575,000 | 1020 | 2387 | -0.179476154 | |
| 12 | 76,500,000 | 76,650,000 | 1021 | 2363 | -0.175378485 | |
| 12 | 76,575,000 | 76,725,000 | 1022 | 2474 | -0.249691484 | |
| 12 | 76,650,000 | 76,800,000 | 1023 | 2614 | 0.067068521 | CLDN10 |
| 12 | 76,725,000 | 76,875,000 | 1024 | 3020 | 0.492259802 | CLDN10,DZIP1 |
| 12 | 76,800,000 | 76,950,000 | 1025 | 2779 | 0.731367931 | CLDN10,DZIP1 |
| 12 | 76,875,000 | 77,025,000 | 1026 | 2325 | 0.551681004 | DNAJC3,DZIP1 |
| 12 | 76,950,000 | 77,100,000 | 1027 | 2167 | 0.429994877 | DNAJC3,UGGT2 |
| 12 | 77,025,000 | 77,175,000 | 1028 | 1920 | 0.694032296 | UGGT2 |
| 12 | 77,100,000 | 77,250,000 | 1029 | 1796 | 0.309011936 | HS6ST3,UGGT2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------|
| 12 | 77,175,000 | 77,325,000 | 1030 | 2040 | 0.639886178 | HS6ST3,UGGT2 |
| 12 | 77,250,000 | 77,400,000 | 1031 | 2020 | 0.769423089 | |
| 12 | 77,325,000 | 77,475,000 | 1032 | 1485 | 0.542965604 | |
| 12 | 77,400,000 | 77,550,000 | 1033 | 1503 | 0.69405683 | |
| 12 | 77,475,000 | 77,625,000 | 1034 | 1770 | 0.758018701 | |
| 12 | 77,550,000 | 77,700,000 | 1035 | 1664 | 0.285355289 | |
| 12 | 77,625,000 | 77,775,000 | 1036 | 1701 | -0.019733684 | |
| 12 | 77,700,000 | 77,850,000 | 1037 | 1357 | 0.317135595 | |
| 12 | 77,775,000 | 77,925,000 | 1038 | 843 | 0.690079284 | |
| 12 | 77,850,000 | 78,000,000 | 1039 | 1061 | 1.016542037 | HS6ST3,ENSBTAG00000045566 |
| 12 | 77,925,000 | 78,075,000 | 1040 | 1052 | 0.336576219 | HS6ST3,OXGR1,ENSBTAG00000045566 |
| 12 | 78,000,000 | 78,150,000 | 1041 | 784 | -0.103599204 | OXGR1 |
| 12 | 78,075,000 | 78,225,000 | 1042 | 709 | 0.778328806 | |
| 12 | 78,150,000 | 78,300,000 | 1043 | 635 | 0.655353869 | MBNL2 |
| 12 | 78,225,000 | 78,375,000 | 1044 | 536 | 0.431456499 | MBNL2 |
| 12 | 78,300,000 | 78,450,000 | 1045 | 501 | -0.003739199 | MBNL2 |
| 12 | 78,375,000 | 78,525,000 | 1046 | 825 | -0.060216438 | MBNL2,RAP2A |
| 12 | 78,450,000 | 78,600,000 | 1047 | 949 | -0.584956101 | RAP2A |
| 12 | 78,525,000 | 78,675,000 | 1048 | 528 | -0.857478117 | RAP2A |
| 12 | 78,600,000 | 78,750,000 | 1049 | 172 | -0.758005031 | |
| 12 | 78,675,000 | 78,825,000 | 1050 | 408 | -0.167759912 | |
| 12 | 78,750,000 | 78,900,000 | 1051 | 797 | -0.247711056 | |
| 12 | 78,825,000 | 78,975,000 | 1052 | 624 | 0.100548204 | |
| 12 | 78,900,000 | 79,050,000 | 1053 | 234 | 0.826356577 | RANBP6 |
| 12 | 78,975,000 | 79,125,000 | 1054 | 358 | -0.242824925 | RANBP6 |
| 12 | 79,050,000 | 79,200,000 | 1055 | 673 | 0.203858027 | FARP1 |
| 12 | 79,125,000 | 79,275,000 | 1056 | 799 | -0.048865183 | FARP1 |
| 12 | 79,200,000 | 79,350,000 | 1057 | 1036 | -0.212709305 | FARP1 |
| 12 | 79,275,000 | 79,425,000 | 1058 | 1121 | 0.286438728 | FARP1 |
| 12 | 79,350,000 | 79,500,000 | 1059 | 1027 | 0.533569566 | FARP1,STK24 |
| 12 | 79,425,000 | 79,575,000 | 1060 | 1076 | 0.665710802 | FARP1,STK24 |
| 12 | 79,500,000 | 79,650,000 | 1061 | 1290 | -0.23053689 | PEPT-1 |
| 12 | 79,575,000 | 79,725,000 | 1062 | 1246 | -0.504634273 | DOCK9,PEPT-1 |
| 12 | 79,650,000 | 79,800,000 | 1063 | 797 | 0.275968982 | DOCK9,PEPT-1 |
| 12 | 79,725,000 | 79,875,000 | 1064 | 801 | 0.180490049 | DOCK9 |
| 12 | 79,800,000 | 79,950,000 | 1065 | 936 | 0.281099418 | DOCK9 |
| 12 | 79,875,000 | 80,025,000 | 1066 | 780 | 0.599958866 | |
| 12 | 79,950,000 | 80,100,000 | 1067 | 585 | 0.561734262 | GPR18,UBAC2 |
| 12 | 80,025,000 | 80,175,000 | 1068 | 412 | 0.507267216 | GPR18,GPR183,UBAC2 |
| 12 | 80,100,000 | 80,250,000 | 1069 | 474 | 0.978449623 | GPR183,UBAC2,ENSBTAG00000038268 |
| 12 | 80,175,000 | 80,325,000 | 1070 | 678 | 1.010314068 | TM9SF2,UBAC2,ENSBTAG00000038268 |
| 12 | 80,250,000 | 80,400,000 | 1071 | 865 | 0.751689795 | TM9SF2 |
| 12 | 80,325,000 | 80,475,000 | 1072 | 781 | 0.841805839 | CLYBL,TM9SF2 |
| 12 | 80,400,000 | 80,550,000 | 1073 | 473 | 1.196337118 | CLYBL |
| 12 | 80,475,000 | 80,625,000 | 1074 | 467 | 1.141476959 | CLYBL |
| 12 | 80,550,000 | 80,700,000 | 1075 | 570 | 0.428886577 | CLYBL |
| 12 | 80,625,000 | 80,775,000 | 1076 | 444 | -0.817707064 | CLYBL,ZIC2,ZIC5 |
| 12 | 80,700,000 | 80,850,000 | 1077 | 512 | -1.368007191 | PCCA,ZIC2,ZIC5 |
| 12 | 80,775,000 | 80,925,000 | 1078 | 632 | -0.662645077 | PCCA |
| 12 | 80,850,000 | 81,000,000 | 1079 | 656 | -0.069908775 | PCCA |
| 12 | 80,925,000 | 81,075,000 | 1080 | 969 | 0.151116541 | PCCA |
| 12 | 81,000,000 | 81,150,000 | 1081 | 1087 | 0.338870491 | PCCA |
| 12 | 81,075,000 | 81,225,000 | 1082 | 953 | 0.606236002 | GGACT,PCCA |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------------------|
| 12 | 81,150,000 | 81,300,000 | 1083 | 1004 | 0.667372175 | GGACT,PCCA,TMTC4 |
| 12 | 81,225,000 | 81,375,000 | 1084 | 1272 | 0.575536621 | TMTC4 |
| 12 | 81,300,000 | 81,450,000 | 1085 | 1449 | 0.234437891 | TMTC4 |
| 12 | 81,375,000 | 81,525,000 | 1086 | 1322 | 0.137208071 | |
| 12 | 81,450,000 | 81,600,000 | 1087 | 1014 | 0.245229274 | NALCN |
| 12 | 81,525,000 | 81,675,000 | 1088 | 1180 | 0.912203788 | NALCN |
| 12 | 81,600,000 | 81,750,000 | 1089 | 1161 | 1.120448835 | NALCN |
| 12 | 81,675,000 | 81,825,000 | 1090 | 793 | 0.399399751 | NALCN |
| 12 | 81,750,000 | 81,900,000 | 1091 | 693 | 0.602361806 | NALCN |
| 12 | 81,825,000 | 81,975,000 | 1092 | 621 | 1.011875015 | NALCN |
| 12 | 81,900,000 | 82,050,000 | 1093 | 866 | 0.082742924 | ITGBL1 |
| 12 | 81,975,000 | 82,125,000 | 1094 | 980 | -0.139930616 | ITGBL1 |
| 12 | 82,050,000 | 82,200,000 | 1095 | 988 | -0.179134537 | ITGBL1 |
| 12 | 82,125,000 | 82,275,000 | 1096 | 828 | -0.550044875 | |
| 12 | 82,200,000 | 82,350,000 | 1097 | 447 | -0.00477854 | |
| 12 | 82,275,000 | 82,425,000 | 1098 | 536 | -0.446275426 | |
| 12 | 82,350,000 | 82,500,000 | 1099 | 632 | -0.445770397 | |
| 12 | 82,425,000 | 82,575,000 | 1100 | 630 | 0.18424576 | |
| 12 | 82,500,000 | 82,650,000 | 1101 | 852 | -0.336183626 | |
| 12 | 82,575,000 | 82,725,000 | 1102 | 820 | -0.976890993 | |
| 12 | 82,650,000 | 82,800,000 | 1103 | 622 | -0.946989595 | |
| 12 | 82,725,000 | 82,875,000 | 1104 | 617 | -0.395004284 | TPP2 |
| 12 | 82,800,000 | 82,950,000 | 1105 | 877 | -0.140723035 | METTL21C,TPP2 |
| 12 | 82,875,000 | 83,025,000 | 1106 | 924 | 0.292057585 | CCDC168,KDELC1,METTL21C,TEX30,TPP2 |
| 12 | 82,950,000 | 83,100,000 | 1107 | 751 | 0.378954573 | CCDC168,ERCC5,KDELC1,METTL21E,TEX30 |
| 12 | 83,025,000 | 83,175,000 | 1108 | 990 | 0.408405929 | ERCC5,METTL21E |
| 12 | 83,100,000 | 83,250,000 | 1109 | 1157 | 0.738859793 | METTL21E |
| 12 | 83,175,000 | 83,325,000 | 1110 | 1451 | 0.578280527 | SLC10A2 |
| 12 | 83,250,000 | 83,400,000 | 1111 | 1506 | 0.283055854 | SLC10A2 |
| 12 | 83,325,000 | 83,475,000 | 1112 | 1084 | 0.082487335 | |
| 12 | 83,400,000 | 83,550,000 | 1113 | 713 | 0.134323073 | |
| 12 | 83,475,000 | 83,625,000 | 1114 | 646 | 0.095319843 | |
| 12 | 83,550,000 | 83,700,000 | 1115 | 975 | 0.940561442 | |
| 12 | 83,625,000 | 83,775,000 | 1116 | 1190 | 0.967536169 | |
| 12 | 83,700,000 | 83,850,000 | 1117 | 1371 | 0.89497608 | |
| 12 | 83,775,000 | 83,925,000 | 1118 | 1084 | 0.896121217 | |
| 12 | 83,850,000 | 84,000,000 | 1119 | 716 | 0.653473576 | |
| 12 | 83,925,000 | 84,075,000 | 1120 | 923 | 0.661241196 | |
| 12 | 84,000,000 | 84,150,000 | 1121 | 1094 | 0.116655998 | |
| 12 | 84,075,000 | 84,225,000 | 1122 | 927 | -0.139164813 | |
| 12 | 84,150,000 | 84,300,000 | 1123 | 1040 | 0.748217766 | |
| 12 | 84,225,000 | 84,375,000 | 1124 | 1278 | 0.932286842 | |
| 12 | 84,300,000 | 84,450,000 | 1125 | 1303 | 0.54733735 | |
| 12 | 84,375,000 | 84,525,000 | 1126 | 1562 | 0.471706688 | |
| 12 | 84,450,000 | 84,600,000 | 1127 | 1734 | 0.806848211 | |
| 12 | 84,525,000 | 84,675,000 | 1128 | 1807 | 0.743899323 | |
| 12 | 84,600,000 | 84,750,000 | 1129 | 1849 | 0.255819945 | |
| 12 | 84,675,000 | 84,825,000 | 1130 | 1601 | -0.247639117 | |
| 12 | 84,750,000 | 84,900,000 | 1131 | 1210 | -0.497824865 | |
| 12 | 84,825,000 | 84,975,000 | 1132 | 1242 | 0.118628383 | |
| 12 | 84,900,000 | 85,050,000 | 1133 | 1232 | 0.503078338 | |
| 12 | 84,975,000 | 85,125,000 | 1134 | 836 | 0.624198033 | |
| 12 | 85,050,000 | 85,200,000 | 1135 | 825 | 0.627399122 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|----------------------|
| 12 | 85,125,000 | 85,275,000 | 1136 | 1084 | 0.966426239 | |
| 12 | 85,200,000 | 85,350,000 | 1137 | 888 | 0.912976092 | |
| 12 | 85,275,000 | 85,425,000 | 1138 | 503 | -0.341000211 | |
| 12 | 85,350,000 | 85,500,000 | 1139 | 825 | 0.239539827 | |
| 12 | 85,425,000 | 85,575,000 | 1140 | 1040 | 0.550641211 | |
| 12 | 85,500,000 | 85,650,000 | 1141 | 842 | 0.682702026 | ENSBTAG00000046889 |
| 12 | 85,575,000 | 85,725,000 | 1142 | 796 | 0.620938418 | ENSBTAG00000046889 |
| 12 | 85,650,000 | 85,800,000 | 1143 | 852 | 0.98640321 | |
| 12 | 85,725,000 | 85,875,000 | 1144 | 784 | 0.856466808 | |
| 12 | 85,800,000 | 85,950,000 | 1145 | 785 | -0.048864173 | |
| 12 | 85,875,000 | 86,025,000 | 1146 | 802 | -0.129849626 | |
| 12 | 85,950,000 | 86,100,000 | 1147 | 794 | -1.210029704 | |
| 12 | 86,025,000 | 86,175,000 | 1148 | 891 | -1.261247772 | |
| 12 | 86,100,000 | 86,250,000 | 1149 | 659 | -0.410082127 | EFNB2 |
| 12 | 86,175,000 | 86,325,000 | 1150 | 435 | 0.384710452 | ARGLU1,EFNB2 |
| 12 | 86,250,000 | 86,400,000 | 1151 | 619 | 1.159385648 | ARGLU1,EFNB2 |
| 12 | 86,325,000 | 86,475,000 | 1152 | 872 | 0.969825161 | |
| 12 | 86,400,000 | 86,550,000 | 1153 | 853 | 0.730303102 | |
| 12 | 86,475,000 | 86,625,000 | 1154 | 1215 | 0.268606411 | |
| 12 | 86,550,000 | 86,700,000 | 1155 | 1151 | 0.25008143 | |
| 12 | 86,625,000 | 86,775,000 | 1156 | 945 | -0.198399394 | |
| 12 | 86,700,000 | 86,850,000 | 1157 | 1096 | -1.353708685 | FAM155A |
| 12 | 86,775,000 | 86,925,000 | 1158 | 701 | -1.559951213 | FAM155A |
| 12 | 86,850,000 | 87,000,000 | 1159 | 572 | 0.494822496 | FAM155A |
| 12 | 86,925,000 | 87,075,000 | 1160 | 677 | -0.674300483 | FAM155A |
| 12 | 87,000,000 | 87,150,000 | 1161 | 698 | -1.267777449 | FAM155A |
| 12 | 87,075,000 | 87,225,000 | 1162 | 677 | -1.314837352 | FAM155A |
| 12 | 87,150,000 | 87,300,000 | 1163 | 756 | -1.277100215 | FAM155A |
| 12 | 87,225,000 | 87,375,000 | 1164 | 840 | -0.303600714 | FAM155A |
| 12 | 87,300,000 | 87,450,000 | 1165 | 595 | 0.105063026 | FAM155A |
| 12 | 87,375,000 | 87,525,000 | 1166 | 607 | 0.113713279 | FAM155A |
| 12 | 87,450,000 | 87,600,000 | 1167 | 846 | 0.180263486 | |
| 12 | 87,525,000 | 87,675,000 | 1168 | 773 | 0.629022575 | ABHD13,LIG4,TNFSF13B |
| 12 | 87,600,000 | 87,750,000 | 1169 | 581 | 0.865352072 | ABHD13,LIG4,TNFSF13B |
| 12 | 87,675,000 | 87,825,000 | 1170 | 459 | 0.565864307 | TNFSF13B |
| 12 | 87,750,000 | 87,900,000 | 1171 | 763 | -0.066906916 | |
| 12 | 87,825,000 | 87,975,000 | 1172 | 1071 | 0.194332753 | MYO16 |
| 12 | 87,900,000 | 88,050,000 | 1173 | 821 | 0.326265074 | MYO16 |
| 12 | 87,975,000 | 88,125,000 | 1174 | 706 | -1.571609665 | MYO16 |
| 12 | 88,050,000 | 88,200,000 | 1175 | 570 | -2.23864203 | MYO16 |
| 12 | 88,125,000 | 88,275,000 | 1176 | 352 | -1.335815442 | MYO16 |
| 12 | 88,200,000 | 88,350,000 | 1177 | 435 | -0.927689486 | MYO16 |
| 12 | 88,275,000 | 88,425,000 | 1178 | 435 | -0.19551657 | MYO16 |
| 12 | 88,350,000 | 88,500,000 | 1179 | 464 | 0.33136944 | |
| 12 | 88,425,000 | 88,575,000 | 1180 | 773 | 0.662279949 | |
| 12 | 88,500,000 | 88,650,000 | 1181 | 637 | 0.821038133 | |
| 12 | 88,575,000 | 88,725,000 | 1182 | 518 | -2.777438379 | IRS2 |
| 12 | 88,650,000 | 88,800,000 | 1183 | 825 | -1.747492886 | IRS2 |
| 12 | 88,725,000 | 88,875,000 | 1184 | 663 | -0.001821778 | |
| 12 | 88,800,000 | 88,950,000 | 1185 | 696 | 0.226212957 | COL4A1 |
| 12 | 88,875,000 | 89,025,000 | 1186 | 678 | 0.512363204 | COL4A1 |
| 12 | 88,950,000 | 89,100,000 | 1187 | 391 | 0.514701009 | COL4A1 |
| 12 | 89,025,000 | 89,175,000 | 1188 | 622 | -1.060731247 | COL4A2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 12 | 89,100,000 | 89,250,000 | 1189 | 729 | -0.739722761 | CARKD,COL4A2,RAB20 |
| 12 | 89,175,000 | 89,325,000 | 1190 | 744 | 0.183979422 | ANKRD10,CARKD,CARS2,RAB20 |
| 12 | 89,250,000 | 89,400,000 | 1191 | 637 | 0.249904967 | ANKRD10,CARS2,ING1 |
| 12 | 89,325,000 | 89,475,000 | 1192 | 320 | 0.113999056 | ANKRD10,ARHGEF7,ING1 |
| 12 | 89,400,000 | 89,550,000 | 1193 | 432 | -1.525032782 | ARHGEF7 |
| 12 | 89,475,000 | 89,625,000 | 1194 | 760 | 0.100758139 | ARHGEF7,TEX29 |
| 12 | 89,550,000 | 89,700,000 | 1195 | 918 | 0.588930716 | ARHGEF7,TEX29 |
| 12 | 89,625,000 | 89,775,000 | 1196 | 802 | 0.420144606 | |
| 12 | 89,700,000 | 89,850,000 | 1197 | 582 | 0.612286535 | |
| 12 | 89,775,000 | 89,925,000 | 1198 | 467 | 0.386558144 | |
| 12 | 89,850,000 | 90,000,000 | 1199 | 433 | 0.416895498 | |
| 12 | 89,925,000 | 90,075,000 | 1200 | 405 | 0.49692093 | SOX1 |
| 12 | 90,000,000 | 90,150,000 | 1201 | 581 | -0.279501378 | SOX1 |
| 12 | 90,075,000 | 90,225,000 | 1202 | 748 | -0.177327742 | TUBGCP3 |
| 12 | 90,150,000 | 90,300,000 | 1203 | 856 | 0.302889257 | TUBGCP3 |
| 12 | 90,225,000 | 90,375,000 | 1204 | 1011 | -0.004340797 | ATP11A,TUBGCP3 |
| 12 | 90,300,000 | 90,450,000 | 1205 | 745 | -0.476002003 | ATP11A,MCF2L |
| 12 | 90,375,000 | 90,525,000 | 1206 | 448 | -0.884728615 | ATP11A,F10,F7,MCF2L |
| 12 | 90,450,000 | 90,600,000 | 1207 | 544 | -1.508171535 | CUL4A,F10,F7,MCF2L,PCID2,PROZ |
| 12 | 90,525,000 | 90,675,000 | 1208 | 609 | -0.978796325 | ADPRHL1,CUL4A,F10,GRTP1,LAMP1,PCID2,PROZ |
| 12 | 90,600,000 | 90,750,000 | 1209 | 539 | 0.443127835 | ADPRHL1,DCUN1D2,GRTP1,LAMP1,TFDP1,TMCO3 |
| 12 | 90,675,000 | 90,825,000 | 1210 | 681 | 0.660685115 | ADPRHL1,ATP4B,DCUN1D2,GAS6,GRK1,TFDP1,TMCO3,TEM255B |
| 12 | 90,750,000 | 90,900,000 | 1211 | 895 | 1.096366589 | ATP4B,GAS6,GRK1,TFDP1,TMEM255B |
| 12 | 90,825,000 | 90,975,000 | 1212 | 1186 | 0.953579792 | GAS6,MGC134473,RASA3 |
| 12 | 90,900,000 | 91,050,000 | 1213 | 1066 | 0.573172621 | CDC16,MGC134473,RASA3,RPL22 |
| 12 | 90,975,000 | 91,125,000 | 1214 | 871 | 0.228531347 | CDC16,CHAMP1,RASA3,RPL22,UPF3A |
| 12 | 91,050,000 | 91,163,125 | 1215 | 624 | 0.230643407 | CDC16,CHAMP1,UPF3A,ENSBTAG00000023187,ENSBTAG00000038732 |
| 13 | 0 | 150,000 | 1 | 496 | 0.72220067 | |
| 13 | 75,000 | 225,000 | 2 | 762 | 0.910421365 | OR4S2 |
| 13 | 150,000 | 300,000 | 3 | 675 | 0.850986507 | OR4S2 |
| 13 | 225,000 | 375,000 | 4 | 649 | -0.363394718 | ENSBTAG00000024891 |
| 13 | 300,000 | 450,000 | 5 | 870 | -2.263858229 | ENSBTAG00000024891,ENSBTAG00000025720 |
| 13 | 375,000 | 525,000 | 6 | 1058 | -2.960072671 | ENSBTAG00000025720 |
| 13 | 450,000 | 600,000 | 7 | 894 | -1.512030054 | TMX4 |
| 13 | 525,000 | 675,000 | 8 | 532 | 0.807653322 | TMX4 |
| 13 | 600,000 | 750,000 | 9 | 798 | 1.010490438 | |
| 13 | 675,000 | 825,000 | 10 | 942 | 0.632950789 | PLCB1 |
| 13 | 750,000 | 900,000 | 11 | 910 | 0.346965743 | PLCB1 |
| 13 | 825,000 | 975,000 | 12 | 1108 | 0.830393414 | PLCB1 |
| 13 | 900,000 | 1,050,000 | 13 | 1286 | -0.006110146 | PLCB1 |
| 13 | 975,000 | 1,125,000 | 14 | 1389 | 0.156042238 | PLCB1 |
| 13 | 1,050,000 | 1,200,000 | 15 | 1148 | 0.626572583 | PLCB1 |
| 13 | 1,125,000 | 1,275,000 | 16 | 899 | 0.053601831 | PLCB1 |
| 13 | 1,200,000 | 1,350,000 | 17 | 1286 | -0.323728365 | PLCB1 |
| 13 | 1,275,000 | 1,425,000 | 18 | 1227 | -0.837418025 | PLCB1 |
| 13 | 1,350,000 | 1,500,000 | 19 | 1220 | -1.611993647 | PLCB1 |
| 13 | 1,425,000 | 1,575,000 | 20 | 1391 | -0.96209516 | PLCB1 |
| 13 | 1,500,000 | 1,650,000 | 21 | 939 | -0.317337078 | PLCB1 |
| 13 | 1,575,000 | 1,725,000 | 22 | 883 | -0.258673923 | PLCB1 |
| 13 | 1,650,000 | 1,800,000 | 23 | 721 | 0.09170412 | PLCB1 |
| 13 | 1,725,000 | 1,875,000 | 24 | 648 | 0.376618276 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------|
| 13 | 1,800,000 | 1,950,000 | 25 | 748 | 0.491692628 | |
| 13 | 1,875,000 | 2,025,000 | 26 | 901 | 0.593074615 | |
| 13 | 1,950,000 | 2,100,000 | 27 | 996 | 0.520862798 | |
| 13 | 2,025,000 | 2,175,000 | 28 | 1104 | 0.091855431 | |
| 13 | 2,100,000 | 2,250,000 | 29 | 907 | -0.402874739 | PLCB4 |
| 13 | 2,175,000 | 2,325,000 | 30 | 827 | -1.485234175 | PLCB4 |
| 13 | 2,250,000 | 2,400,000 | 31 | 1305 | -0.399269905 | PLCB4 |
| 13 | 2,325,000 | 2,475,000 | 32 | 1288 | 0.502383229 | LAMP5,PAK7,PLCB4 |
| 13 | 2,400,000 | 2,550,000 | 33 | 1515 | 0.94940417 | LAMP5,PAK7,PLCB4 |
| 13 | 2,475,000 | 2,625,000 | 34 | 1669 | 0.760250424 | PAK7 |
| 13 | 2,550,000 | 2,700,000 | 35 | 1593 | 0.343850474 | |
| 13 | 2,625,000 | 2,775,000 | 36 | 1457 | 0.084111792 | |
| 13 | 2,700,000 | 2,850,000 | 37 | 1065 | -1.554575544 | ENSBTAG00000046074 |
| 13 | 2,775,000 | 2,925,000 | 38 | 771 | -1.448445161 | MRPL33,ENSBTAG00000046074 |
| 13 | 2,850,000 | 3,000,000 | 39 | 678 | 0.176793896 | MRPL33 |
| 13 | 2,925,000 | 3,075,000 | 40 | 557 | 0.29347019 | |
| 13 | 3,000,000 | 3,150,000 | 41 | 683 | 0.968063906 | ANKEF1 |
| 13 | 3,075,000 | 3,225,000 | 42 | 994 | 0.068363298 | ANKEF1 |
| 13 | 3,150,000 | 3,300,000 | 43 | 858 | -1.78997514 | ANKEF1 |
| 13 | 3,225,000 | 3,375,000 | 44 | 665 | -0.079726558 | SNAP25 |
| 13 | 3,300,000 | 3,450,000 | 45 | 801 | 0.439546064 | SNAP25 |
| 13 | 3,375,000 | 3,525,000 | 46 | 1091 | 0.218454753 | SNAP25 |
| 13 | 3,450,000 | 3,600,000 | 47 | 1115 | 0.419570344 | MKKS,SNAP25 |
| 13 | 3,525,000 | 3,675,000 | 48 | 701 | 0.529513926 | MKKS |
| 13 | 3,600,000 | 3,750,000 | 49 | 497 | 0.875381673 | SLX4IP |
| 13 | 3,675,000 | 3,825,000 | 50 | 585 | 0.992694115 | SLX4IP |
| 13 | 3,750,000 | 3,900,000 | 51 | 496 | 0.049748513 | JAG1,SLX4IP |
| 13 | 3,825,000 | 3,975,000 | 52 | 539 | -1.540593548 | JAG1 |
| 13 | 3,900,000 | 4,050,000 | 53 | 674 | -1.444004002 | |
| 13 | 3,975,000 | 4,125,000 | 54 | 521 | -1.39543029 | |
| 13 | 4,050,000 | 4,200,000 | 55 | 521 | -0.663612878 | |
| 13 | 4,125,000 | 4,275,000 | 56 | 636 | 0.183147635 | |
| 13 | 4,200,000 | 4,350,000 | 57 | 567 | 0.588853662 | |
| 13 | 4,275,000 | 4,425,000 | 58 | 685 | 0.343013624 | |
| 13 | 4,350,000 | 4,500,000 | 59 | 785 | 0.289910051 | |
| 13 | 4,425,000 | 4,575,000 | 60 | 778 | -0.66808206 | |
| 13 | 4,500,000 | 4,650,000 | 61 | 652 | -0.1361293 | |
| 13 | 4,575,000 | 4,725,000 | 62 | 768 | 0.767721966 | |
| 13 | 4,650,000 | 4,800,000 | 63 | 824 | 0.497662723 | |
| 13 | 4,725,000 | 4,875,000 | 64 | 618 | 0.666577075 | |
| 13 | 4,800,000 | 4,950,000 | 65 | 743 | -1.78864668 | |
| 13 | 4,875,000 | 5,025,000 | 66 | 953 | -1.22208598 | |
| 13 | 4,950,000 | 5,100,000 | 67 | 884 | -0.085607919 | |
| 13 | 5,025,000 | 5,175,000 | 68 | 903 | -1.190908013 | |
| 13 | 5,100,000 | 5,250,000 | 69 | 1279 | -0.901939817 | |
| 13 | 5,175,000 | 5,325,000 | 70 | 1198 | -0.350739209 | |
| 13 | 5,250,000 | 5,400,000 | 71 | 687 | -0.187666751 | |
| 13 | 5,325,000 | 5,475,000 | 72 | 220 | -0.621663397 | SRY |
| 13 | 5,400,000 | 5,550,000 | 73 | 33 | -7.261397289 | SRY |
| 13 | 5,475,000 | 5,625,000 | 74 | 373 | 0.172925984 | BTBD3 |
| 13 | 5,550,000 | 5,700,000 | 75 | 1193 | -0.049897137 | BTBD3 |
| 13 | 5,625,000 | 5,775,000 | 76 | 1511 | -0.152866723 | ENSBTAG00000045631 |
| 13 | 5,700,000 | 5,850,000 | 77 | 1290 | -0.18165989 | ENSBTAG00000045631 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|------------------------|
| 13 | 5,775,000 | 5,925,000 | 78 | 1194 | -0.650893982 | |
| 13 | 5,850,000 | 6,000,000 | 79 | 1464 | -0.13894167 | |
| 13 | 5,925,000 | 6,075,000 | 80 | 1723 | -0.48052099 | |
| 13 | 6,000,000 | 6,150,000 | 81 | 1663 | -0.409753904 | |
| 13 | 6,075,000 | 6,225,000 | 82 | 1690 | 0.434312838 | |
| 13 | 6,150,000 | 6,300,000 | 83 | 1673 | 0.520148589 | |
| 13 | 6,225,000 | 6,375,000 | 84 | 1710 | 0.487419226 | |
| 13 | 6,300,000 | 6,450,000 | 85 | 1382 | 0.07223833 | |
| 13 | 6,375,000 | 6,525,000 | 86 | 949 | -0.728265048 | |
| 13 | 6,450,000 | 6,600,000 | 87 | 1200 | -0.195307085 | |
| 13 | 6,525,000 | 6,675,000 | 88 | 1397 | 0.811772013 | |
| 13 | 6,600,000 | 6,750,000 | 89 | 1262 | 0.704003539 | SPTLC3 |
| 13 | 6,675,000 | 6,825,000 | 90 | 1143 | 0.216061959 | SPTLC3 |
| 13 | 6,750,000 | 6,900,000 | 91 | 969 | 0.036339294 | SPTLC3 |
| 13 | 6,825,000 | 6,975,000 | 92 | 651 | 0.406842691 | SPTLC3 |
| 13 | 6,900,000 | 7,050,000 | 93 | 583 | 0.792144857 | C20ORF82 |
| 13 | 6,975,000 | 7,125,000 | 94 | 650 | 0.71343624 | C20ORF82 |
| 13 | 7,050,000 | 7,200,000 | 95 | 823 | 0.727970522 | C20ORF82,TASP1 |
| 13 | 7,125,000 | 7,275,000 | 96 | 1040 | 0.397765606 | TASP1 |
| 13 | 7,200,000 | 7,350,000 | 97 | 1074 | 0.320061332 | TASP1 |
| 13 | 7,275,000 | 7,425,000 | 98 | 1222 | 0.737117789 | TASP1 |
| 13 | 7,350,000 | 7,500,000 | 99 | 882 | 0.934172853 | ESF1,TASP1 |
| 13 | 7,425,000 | 7,575,000 | 100 | 545 | -0.874756918 | C13H20orf7,ESF1,SEL1L2 |
| 13 | 7,500,000 | 7,650,000 | 101 | 949 | -0.733701173 | C13H20orf7,ESF1,SEL1L2 |
| 13 | 7,575,000 | 7,725,000 | 102 | 904 | 0.350873982 | SEL1L2 |
| 13 | 7,650,000 | 7,800,000 | 103 | 459 | 1.305327583 | |
| 13 | 7,725,000 | 7,875,000 | 104 | 507 | 1.424887994 | |
| 13 | 7,800,000 | 7,950,000 | 105 | 756 | 1.339715989 | |
| 13 | 7,875,000 | 8,025,000 | 106 | 663 | 0.592696944 | |
| 13 | 7,950,000 | 8,100,000 | 107 | 416 | -0.286915 | FLRT3 |
| 13 | 8,025,000 | 8,175,000 | 108 | 390 | 0.465692421 | FLRT3 |
| 13 | 8,100,000 | 8,250,000 | 109 | 994 | 1.113775922 | |
| 13 | 8,175,000 | 8,325,000 | 110 | 949 | 1.116923357 | |
| 13 | 8,250,000 | 8,400,000 | 111 | 666 | 1.067423583 | |
| 13 | 8,325,000 | 8,475,000 | 112 | 957 | 1.01852627 | |
| 13 | 8,400,000 | 8,550,000 | 113 | 681 | 0.646297849 | |
| 13 | 8,475,000 | 8,625,000 | 114 | 545 | -1.943876461 | |
| 13 | 8,550,000 | 8,700,000 | 115 | 532 | -2.051907824 | |
| 13 | 8,625,000 | 8,775,000 | 116 | 573 | 0.421798626 | |
| 13 | 8,700,000 | 8,850,000 | 117 | 936 | 0.442855114 | |
| 13 | 8,775,000 | 8,925,000 | 118 | 1286 | 0.505374266 | |
| 13 | 8,850,000 | 9,000,000 | 119 | 1535 | 0.55379383 | |
| 13 | 8,925,000 | 9,075,000 | 120 | 1395 | 0.473865492 | |
| 13 | 9,000,000 | 9,150,000 | 121 | 1359 | 0.359185346 | |
| 13 | 9,075,000 | 9,225,000 | 122 | 1444 | 0.117839133 | |
| 13 | 9,150,000 | 9,300,000 | 123 | 1225 | 0.204696587 | |
| 13 | 9,225,000 | 9,375,000 | 124 | 1073 | 0.305579874 | |
| 13 | 9,300,000 | 9,450,000 | 125 | 1214 | 0.485500891 | |
| 13 | 9,375,000 | 9,525,000 | 126 | 1322 | 0.725855413 | |
| 13 | 9,450,000 | 9,600,000 | 127 | 1251 | 0.481102509 | |
| 13 | 9,525,000 | 9,675,000 | 128 | 1142 | 0.55536709 | |
| 13 | 9,600,000 | 9,750,000 | 129 | 1057 | 0.596691201 | |
| 13 | 9,675,000 | 9,825,000 | 130 | 942 | 0.479072694 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 13 | 9,750,000 | 9,900,000 | 131 | 1065 | -0.546581017 | MACROD2 |
| 13 | 9,825,000 | 9,975,000 | 132 | 1156 | -0.565345775 | MACROD2 |
| 13 | 9,900,000 | 10,050,000 | 133 | 1093 | 0.768158256 | MACROD2 |
| 13 | 9,975,000 | 10,125,000 | 134 | 1139 | 1.088233037 | MACROD2 |
| 13 | 10,050,000 | 10,200,000 | 135 | 1280 | 0.412278012 | |
| 13 | 10,125,000 | 10,275,000 | 136 | 1458 | 0.04382975 | KIF16B |
| 13 | 10,200,000 | 10,350,000 | 137 | 945 | 0.211435687 | KIF16B |
| 13 | 10,275,000 | 10,425,000 | 138 | 456 | 0.006030086 | KIF16B |
| 13 | 10,350,000 | 10,500,000 | 139 | 797 | -0.398644494 | KIF16B |
| 13 | 10,425,000 | 10,575,000 | 140 | 1020 | -1.563840094 | KIF16B |
| 13 | 10,500,000 | 10,650,000 | 141 | 1178 | -0.427417283 | KIF16B |
| 13 | 10,575,000 | 10,725,000 | 142 | 1723 | 0.840646155 | |
| 13 | 10,650,000 | 10,800,000 | 143 | 1649 | 0.785028234 | OTOR,SNRPB2 |
| 13 | 10,725,000 | 10,875,000 | 144 | 1047 | 0.800526909 | NANP,OTOR,SNRPB2 |
| 13 | 10,800,000 | 10,950,000 | 145 | 1016 | 0.694576996 | NANP,ENSBTAG00000023169 |
| 13 | 10,875,000 | 11,025,000 | 146 | 1274 | 0.750453742 | NANP,ENSBTAG00000023169 |
| 13 | 10,950,000 | 11,100,000 | 147 | 1062 | 0.714431276 | ENSBTAG00000023169 |
| 13 | 11,025,000 | 11,175,000 | 148 | 946 | 0.536940791 | ENSBTAG00000004354 |
| 13 | 11,100,000 | 11,250,000 | 149 | 1591 | 0.751393095 | ENSBTAG00000004354 |
| 13 | 11,175,000 | 11,325,000 | 150 | 1584 | 0.740141362 | ANKRD26,ENSBTAG00000004354 |
| 13 | 11,250,000 | 11,400,000 | 151 | 1008 | 0.108398013 | ANKRD26,ENSBTAG00000040046 |
| 13 | 11,325,000 | 11,475,000 | 152 | 977 | 0.139708044 | ANKRD26,ENSBTAG00000040046 |
| 13 | 11,400,000 | 11,550,000 | 153 | 881 | 0.505030982 | CCDC3,ENSBTAG00000040046 |
| 13 | 11,475,000 | 11,625,000 | 154 | 756 | 0.876407404 | CCDC3 |
| 13 | 11,550,000 | 11,700,000 | 155 | 651 | 0.512891884 | CCDC3 |
| 13 | 11,625,000 | 11,775,000 | 156 | 670 | -1.044559341 | CAMK1D,CCDC3 |
| 13 | 11,700,000 | 11,850,000 | 157 | 973 | -1.019609701 | CAMK1D |
| 13 | 11,775,000 | 11,925,000 | 158 | 1107 | -0.522785516 | CAMK1D |
| 13 | 11,850,000 | 12,000,000 | 159 | 959 | -1.068668612 | |
| 13 | 11,925,000 | 12,075,000 | 160 | 795 | -2.369200558 | |
| 13 | 12,000,000 | 12,150,000 | 161 | 661 | -1.286692285 | |
| 13 | 12,075,000 | 12,225,000 | 162 | 831 | 0.928439012 | CDC123 |
| 13 | 12,150,000 | 12,300,000 | 163 | 748 | 1.01894764 | CDC123,DHTKD1,NUDT5,SEC61A2 |
| 13 | 12,225,000 | 12,375,000 | 164 | 573 | 0.986926936 | CDC123,DHTKD1,NUDT5,SEC61A2,UPF2 |
| 13 | 12,300,000 | 12,450,000 | 165 | 518 | 0.710350315 | DHTKD1,UPF2 |
| 13 | 12,375,000 | 12,525,000 | 166 | 449 | 0.837419363 | PROSER2,UPF2 |
| 13 | 12,450,000 | 12,600,000 | 167 | 558 | 0.922485776 | ECHDC3,PROSER2,UPF2 |
| 13 | 12,525,000 | 12,675,000 | 168 | 685 | 0.852997989 | ECHDC3,PROSER2 |
| 13 | 12,600,000 | 12,750,000 | 169 | 655 | 0.911448129 | |
| 13 | 12,675,000 | 12,825,000 | 170 | 595 | 0.817187044 | USP6NL |
| 13 | 12,750,000 | 12,900,000 | 171 | 992 | 0.907824435 | USP6NL |
| 13 | 12,825,000 | 12,975,000 | 172 | 960 | 1.067309669 | CELF2,USP6NL |
| 13 | 12,900,000 | 13,050,000 | 173 | 608 | 1.242584052 | CELF2 |
| 13 | 12,975,000 | 13,125,000 | 174 | 491 | 1.092690192 | CELF2 |
| 13 | 13,050,000 | 13,200,000 | 175 | 434 | 0.357348627 | |
| 13 | 13,125,000 | 13,275,000 | 176 | 691 | -0.173724484 | |
| 13 | 13,200,000 | 13,350,000 | 177 | 1107 | 0.31065137 | |
| 13 | 13,275,000 | 13,425,000 | 178 | 980 | 0.624809751 | |
| 13 | 13,350,000 | 13,500,000 | 179 | 689 | -0.041405329 | |
| 13 | 13,425,000 | 13,575,000 | 180 | 949 | 0.410399822 | |
| 13 | 13,500,000 | 13,650,000 | 181 | 757 | 0.924704691 | |
| 13 | 13,575,000 | 13,725,000 | 182 | 647 | -0.555194749 | |
| 13 | 13,650,000 | 13,800,000 | 183 | 826 | -0.499996646 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 13 | 13,725,000 | 13,875,000 | 184 | 646 | 0.703939698 | |
| 13 | 13,800,000 | 13,950,000 | 185 | 865 | 1.003599535 | |
| 13 | 13,875,000 | 14,025,000 | 186 | 1070 | 0.951957496 | |
| 13 | 13,950,000 | 14,100,000 | 187 | 1230 | 0.85085542 | |
| 13 | 14,025,000 | 14,175,000 | 188 | 1234 | 0.897013702 | |
| 13 | 14,100,000 | 14,250,000 | 189 | 929 | 0.679032489 | |
| 13 | 14,175,000 | 14,325,000 | 190 | 892 | 0.81320559 | |
| 13 | 14,250,000 | 14,400,000 | 191 | 889 | 0.025461627 | |
| 13 | 14,325,000 | 14,475,000 | 192 | 913 | -1.070628585 | |
| 13 | 14,400,000 | 14,550,000 | 193 | 1278 | 0.32547458 | |
| 13 | 14,475,000 | 14,625,000 | 194 | 1468 | 0.712381946 | |
| 13 | 14,550,000 | 14,700,000 | 195 | 1472 | 0.246888083 | |
| 13 | 14,625,000 | 14,775,000 | 196 | 1633 | -0.201231351 | |
| 13 | 14,700,000 | 14,850,000 | 197 | 1898 | -0.317277966 | |
| 13 | 14,775,000 | 14,925,000 | 198 | 1954 | 0.262239708 | |
| 13 | 14,850,000 | 15,000,000 | 199 | 1783 | 0.703036163 | |
| 13 | 14,925,000 | 15,075,000 | 200 | 1309 | 0.668653624 | |
| 13 | 15,000,000 | 15,150,000 | 201 | 973 | 0.692267012 | |
| 13 | 15,075,000 | 15,225,000 | 202 | 1264 | 0.128808421 | ENSBTAG00000048047 |
| 13 | 15,150,000 | 15,300,000 | 203 | 1283 | 0.470372621 | ENSBTAG00000048047 |
| 13 | 15,225,000 | 15,375,000 | 204 | 806 | 1.122539225 | |
| 13 | 15,300,000 | 15,450,000 | 205 | 349 | 0.495192878 | |
| 13 | 15,375,000 | 15,525,000 | 206 | 346 | 0.104923289 | |
| 13 | 15,450,000 | 15,600,000 | 207 | 455 | 0.270252368 | |
| 13 | 15,525,000 | 15,675,000 | 208 | 409 | 1.001989857 | |
| 13 | 15,600,000 | 15,750,000 | 209 | 277 | 1.158281208 | |
| 13 | 15,675,000 | 15,825,000 | 210 | 317 | 0.47770058 | |
| 13 | 15,750,000 | 15,900,000 | 211 | 562 | 0.261303291 | |
| 13 | 15,825,000 | 15,975,000 | 212 | 748 | -0.100366961 | |
| 13 | 15,900,000 | 16,050,000 | 213 | 771 | -0.497061024 | GATA3,TAF3 |
| 13 | 15,975,000 | 16,125,000 | 214 | 841 | -0.167442493 | GATA3,TAF3 |
| 13 | 16,050,000 | 16,200,000 | 215 | 1066 | 0.446713741 | ATP5C1,KIN,TAF3 |
| 13 | 16,125,000 | 16,275,000 | 216 | 1302 | 0.785899626 | ATP5C1,ITIH2,KIN,TAF3 |
| 13 | 16,200,000 | 16,350,000 | 217 | 1628 | 0.731706792 | ITIH2,ITIH5,KIN |
| 13 | 16,275,000 | 16,425,000 | 218 | 1980 | 0.297825167 | ITIH5,SFMBT2 |
| 13 | 16,350,000 | 16,500,000 | 219 | 2080 | 0.277973991 | ITIH5,SFMBT2 |
| 13 | 16,425,000 | 16,575,000 | 220 | 1777 | 0.433550297 | SFMBT2 |
| 13 | 16,500,000 | 16,650,000 | 221 | 1250 | 0.260384577 | SFMBT2 |
| 13 | 16,575,000 | 16,725,000 | 222 | 916 | -1.037150367 | SFMBT2 |
| 13 | 16,650,000 | 16,800,000 | 223 | 775 | -1.46814677 | |
| 13 | 16,725,000 | 16,875,000 | 224 | 790 | -0.423170626 | |
| 13 | 16,800,000 | 16,950,000 | 225 | 808 | -2.361634151 | |
| 13 | 16,875,000 | 17,025,000 | 226 | 506 | -2.419963541 | |
| 13 | 16,950,000 | 17,100,000 | 227 | 456 | 0.51073521 | PRKCQ |
| 13 | 17,025,000 | 17,175,000 | 228 | 673 | 0.419120508 | PRKCQ |
| 13 | 17,100,000 | 17,250,000 | 229 | 543 | 0.259270313 | PRKCQ |
| 13 | 17,175,000 | 17,325,000 | 230 | 686 | 0.84802745 | PRKCQ |
| 13 | 17,250,000 | 17,400,000 | 231 | 1058 | 0.896993393 | PFKFB3 |
| 13 | 17,325,000 | 17,475,000 | 232 | 936 | 0.547075487 | PFKFB3 |
| 13 | 17,400,000 | 17,550,000 | 233 | 673 | -0.05426539 | IL2RA,PFKFB3,RBM17 |
| 13 | 17,475,000 | 17,625,000 | 234 | 599 | -0.403823796 | IL15RA,IL2RA,RBM17 |
| 13 | 17,550,000 | 17,700,000 | 235 | 619 | -0.152682709 | FBXO18,IL15RA,IL2RA |
| 13 | 17,625,000 | 17,775,000 | 236 | 913 | 0.221575982 | FBXO18,IL15RA,ENSBTAG00000036222 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 17,700,000 | 17,850,000 | 237 | 1266 | 0.62615589 | ENSBTAG00000017012,ENSBTAG00000022931,ENSBTAG0000036222 |
| 13 | 17,775,000 | 17,925,000 | 238 | 1013 | 0.767092466 | ANKRD26,ENSBTAG00000017012,ENSBTAG00000022931,ENSBTAG00000034145,ENSBTAG00000036222 |
| 13 | 17,850,000 | 18,000,000 | 239 | 791 | 0.261332843 | ANKRD26,YME1L1,ENSBTAG00000022931,ENSBTAG00000034145 |
| 13 | 17,925,000 | 18,075,000 | 240 | 932 | 0.490311542 | ACBD5,ANKRD26,MASTL,YME1L1 |
| 13 | 18,000,000 | 18,150,000 | 241 | 863 | 0.871485618 | ABI1,ACBD5,MASTL,YME1L1 |
| 13 | 18,075,000 | 18,225,000 | 242 | 688 | 0.245845511 | ABI1,ACBD5,PDSS1 |
| 13 | 18,150,000 | 18,300,000 | 243 | 981 | 0.328665985 | ABI1,APBB1IP,PDSS1 |
| 13 | 18,225,000 | 18,375,000 | 244 | 1021 | 0.632951166 | APBB1IP,CCNY |
| 13 | 18,300,000 | 18,450,000 | 245 | 721 | 0.656307531 | APBB1IP,CCNY |
| 13 | 18,375,000 | 18,525,000 | 246 | 630 | 0.519058366 | CCNY,CREM |
| 13 | 18,450,000 | 18,600,000 | 247 | 479 | 0.786988461 | CREM,CUL2 |
| 13 | 18,525,000 | 18,675,000 | 248 | 446 | 0.892610615 | CREM,CUL2 |
| 13 | 18,600,000 | 18,750,000 | 249 | 449 | 0.24842524 | CUL2 |
| 13 | 18,675,000 | 18,825,000 | 250 | 454 | 0.187812504 | |
| 13 | 18,750,000 | 18,900,000 | 251 | 400 | 0.839140997 | |
| 13 | 18,825,000 | 18,975,000 | 252 | 381 | 1.253603517 | |
| 13 | 18,900,000 | 19,050,000 | 253 | 682 | 1.279392157 | PAR3 |
| 13 | 18,975,000 | 19,125,000 | 254 | 706 | 1.130011582 | PAR3 |
| 13 | 19,050,000 | 19,200,000 | 255 | 610 | 0.329054754 | PAR3 |
| 13 | 19,125,000 | 19,275,000 | 256 | 710 | 0.173380058 | PAR3 |
| 13 | 19,200,000 | 19,350,000 | 257 | 803 | -0.53389709 | PAR3 |
| 13 | 19,275,000 | 19,425,000 | 258 | 899 | -0.20191542 | PAR3 |
| 13 | 19,350,000 | 19,500,000 | 259 | 750 | 0.51583663 | |
| 13 | 19,425,000 | 19,575,000 | 260 | 637 | -0.395298683 | |
| 13 | 19,500,000 | 19,650,000 | 261 | 579 | -1.176507687 | |
| 13 | 19,575,000 | 19,725,000 | 262 | 425 | -1.025000607 | |
| 13 | 19,650,000 | 19,800,000 | 263 | 788 | 0.78382014 | |
| 13 | 19,725,000 | 19,875,000 | 264 | 915 | 0.724476762 | |
| 13 | 19,800,000 | 19,950,000 | 265 | 545 | 0.460016069 | NRP1 |
| 13 | 19,875,000 | 20,025,000 | 266 | 484 | 0.17168939 | NRP1 |
| 13 | 19,950,000 | 20,100,000 | 267 | 655 | -0.799555178 | NRP1 |
| 13 | 20,025,000 | 20,175,000 | 268 | 778 | -0.28185422 | NRP1 |
| 13 | 20,100,000 | 20,250,000 | 269 | 729 | 0.638706441 | ITGB1 |
| 13 | 20,175,000 | 20,325,000 | 270 | 582 | 0.955797773 | ITGB1 |
| 13 | 20,250,000 | 20,400,000 | 271 | 326 | 1.032204051 | ITGB1 |
| 13 | 20,325,000 | 20,475,000 | 272 | 263 | 1.288333352 | |
| 13 | 20,400,000 | 20,550,000 | 273 | 283 | 1.151891222 | CCDC7 |
| 13 | 20,475,000 | 20,625,000 | 274 | 285 | 0.566267216 | ARL5B,CCDC7 |
| 13 | 20,550,000 | 20,700,000 | 275 | 723 | 1.121722883 | ARL5B,CCDC7 |
| 13 | 20,625,000 | 20,775,000 | 276 | 1063 | 0.880183378 | |
| 13 | 20,700,000 | 20,850,000 | 277 | 1194 | 0.073379374 | |
| 13 | 20,775,000 | 20,925,000 | 278 | 1434 | 0.56681601 | |
| 13 | 20,850,000 | 21,000,000 | 279 | 1521 | 0.876775557 | MGC152301 |
| 13 | 20,925,000 | 21,075,000 | 280 | 1316 | 0.319525845 | MGC152301,ENSBTAG00000023216 |
| 13 | 21,000,000 | 21,150,000 | 281 | 834 | -0.100013137 | ENSBTAG00000023216 |
| 13 | 21,075,000 | 21,225,000 | 282 | 553 | 0.040670802 | ENSBTAG00000023216 |
| 13 | 21,150,000 | 21,300,000 | 283 | 461 | 0.480118734 | ENSBTAG00000023216 |
| 13 | 21,225,000 | 21,375,000 | 284 | 947 | -0.001228392 | ENSBTAG00000023216 |
| 13 | 21,300,000 | 21,450,000 | 285 | 1455 | 0.375689659 | ENSBTAG00000023216 |
| 13 | 21,375,000 | 21,525,000 | 286 | 1125 | 1.108161771 | ENSBTAG00000023216 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 13 | 21,450,000 | 21,600,000 | 287 | 792 | 1.063493497 | PLXDC2 |
| 13 | 21,525,000 | 21,675,000 | 288 | 840 | 0.963260146 | PLXDC2 |
| 13 | 21,600,000 | 21,750,000 | 289 | 910 | 1.057378105 | PLXDC2 |
| 13 | 21,675,000 | 21,825,000 | 290 | 916 | 0.855156908 | PLXDC2 |
| 13 | 21,750,000 | 21,900,000 | 291 | 1275 | 0.383309933 | PLXDC2 |
| 13 | 21,825,000 | 21,975,000 | 292 | 1583 | 0.286591871 | PLXDC2 |
| 13 | 21,900,000 | 22,050,000 | 293 | 1161 | 0.451128145 | PLXDC2 |
| 13 | 21,975,000 | 22,125,000 | 294 | 846 | 1.049822509 | PLXDC2 |
| 13 | 22,050,000 | 22,200,000 | 295 | 915 | 0.191335148 | |
| 13 | 22,125,000 | 22,275,000 | 296 | 848 | -0.569456547 | |
| 13 | 22,200,000 | 22,350,000 | 297 | 869 | -0.255736224 | |
| 13 | 22,275,000 | 22,425,000 | 298 | 800 | -0.005802973 | NEBL |
| 13 | 22,350,000 | 22,500,000 | 299 | 590 | 0.58322732 | NEBL |
| 13 | 22,425,000 | 22,575,000 | 300 | 523 | 0.006593777 | NEBL |
| 13 | 22,500,000 | 22,650,000 | 301 | 440 | -0.550901347 | |
| 13 | 22,575,000 | 22,725,000 | 302 | 439 | 1.016713063 | |
| 13 | 22,650,000 | 22,800,000 | 303 | 477 | 0.542870439 | |
| 13 | 22,725,000 | 22,875,000 | 304 | 801 | 0.247264961 | ENSBTAG00000003937 |
| 13 | 22,800,000 | 22,950,000 | 305 | 719 | 0.293383321 | ENSBTAG00000003937 |
| 13 | 22,875,000 | 23,025,000 | 306 | 239 | -1.064165262 | SKIDA1 |
| 13 | 22,950,000 | 23,100,000 | 307 | 173 | -2.758936673 | MLLT10,SKIDA1 |
| 13 | 23,025,000 | 23,175,000 | 308 | 202 | -1.876890451 | MLLT10 |
| 13 | 23,100,000 | 23,250,000 | 309 | 213 | -1.235376086 | MLLT10 |
| 13 | 23,175,000 | 23,325,000 | 310 | 203 | -0.99680113 | DNAJC1,MLLT10 |
| 13 | 23,250,000 | 23,400,000 | 311 | 206 | -1.112120191 | DNAJC1 |
| 13 | 23,325,000 | 23,475,000 | 312 | 291 | -0.590046054 | DNAJC1 |
| 13 | 23,400,000 | 23,550,000 | 313 | 309 | -0.446063493 | DNAJC1 |
| 13 | 23,475,000 | 23,625,000 | 314 | 476 | -0.61852155 | |
| 13 | 23,550,000 | 23,700,000 | 315 | 579 | -0.640279734 | |
| 13 | 23,625,000 | 23,775,000 | 316 | 423 | -0.499851532 | BMI1,COMMD3,SPAG6 |
| 13 | 23,700,000 | 23,850,000 | 317 | 507 | -1.054987073 | BMI1,COMMD3,SPAG6 |
| 13 | 23,775,000 | 23,925,000 | 318 | 637 | -1.030927086 | PIP4K2A,SPAG6 |
| 13 | 23,850,000 | 24,000,000 | 319 | 804 | 0.100417656 | PIP4K2A |
| 13 | 23,925,000 | 24,075,000 | 320 | 905 | 0.083808178 | PIP4K2A |
| 13 | 24,000,000 | 24,150,000 | 321 | 832 | -1.246709373 | PIP4K2A |
| 13 | 24,075,000 | 24,225,000 | 322 | 865 | -1.680832466 | PIP4K2A |
| 13 | 24,150,000 | 24,300,000 | 323 | 995 | -1.12585711 | ARMC3 |
| 13 | 24,225,000 | 24,375,000 | 324 | 1045 | -0.602607307 | ARMC3 |
| 13 | 24,300,000 | 24,450,000 | 325 | 1166 | -0.152388568 | ARMC3,MSRB2 |
| 13 | 24,375,000 | 24,525,000 | 326 | 1138 | -1.274697914 | C10orf67,MSRB2,PTF1A |
| 13 | 24,450,000 | 24,600,000 | 327 | 952 | -2.999818717 | C10orf67,PTF1A |
| 13 | 24,525,000 | 24,675,000 | 328 | 1103 | -1.010506448 | C10orf67,OTUD1 |
| 13 | 24,600,000 | 24,750,000 | 329 | 1051 | 0.52038143 | OTUD1 |
| 13 | 24,675,000 | 24,825,000 | 330 | 820 | 0.842110765 | |
| 13 | 24,750,000 | 24,900,000 | 331 | 841 | 0.852935968 | |
| 13 | 24,825,000 | 24,975,000 | 332 | 937 | 0.59228556 | |
| 13 | 24,900,000 | 25,050,000 | 333 | 896 | 0.753907905 | |
| 13 | 24,975,000 | 25,125,000 | 334 | 698 | 0.81620869 | |
| 13 | 25,050,000 | 25,200,000 | 335 | 559 | 1.00535642 | |
| 13 | 25,125,000 | 25,275,000 | 336 | 521 | 0.655807128 | |
| 13 | 25,200,000 | 25,350,000 | 337 | 682 | -0.164827881 | KIAA1217 |
| 13 | 25,275,000 | 25,425,000 | 338 | 942 | 0.225927828 | KIAA1217 |
| 13 | 25,350,000 | 25,500,000 | 339 | 1281 | 0.571305892 | KIAA1217 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 13 | 25,425,000 | 25,575,000 | 340 | 1296 | 0.075008396 | KIAA1217 |
| 13 | 25,500,000 | 25,650,000 | 341 | 1088 | -1.123020786 | KIAA1217 |
| 13 | 25,575,000 | 25,725,000 | 342 | 977 | -1.844693115 | KIAA1217 |
| 13 | 25,650,000 | 25,800,000 | 343 | 989 | -0.572211169 | ARHGAP21,KIAA1217 |
| 13 | 25,725,000 | 25,875,000 | 344 | 1081 | -0.105461038 | ARHGAP21 |
| 13 | 25,800,000 | 25,950,000 | 345 | 1052 | 0.2333045 | ARHGAP21 |
| 13 | 25,875,000 | 26,025,000 | 346 | 928 | 0.219437178 | |
| 13 | 25,950,000 | 26,100,000 | 347 | 623 | -0.684623595 | ENKUR,PRTFDC1 |
| 13 | 26,025,000 | 26,175,000 | 348 | 416 | -0.301320738 | ENKUR,PRTFDC1,THNSL1 |
| 13 | 26,100,000 | 26,250,000 | 349 | 377 | 0.446677424 | ENKUR,GPR158,THNSL1 |
| 13 | 26,175,000 | 26,325,000 | 350 | 367 | -0.294686768 | GPR158 |
| 13 | 26,250,000 | 26,400,000 | 351 | 367 | -0.90142734 | GPR158 |
| 13 | 26,325,000 | 26,475,000 | 352 | 430 | 0.149725042 | GPR158 |
| 13 | 26,400,000 | 26,550,000 | 353 | 550 | 0.876675245 | GPR158 |
| 13 | 26,475,000 | 26,625,000 | 354 | 715 | -0.357391749 | GPR158 |
| 13 | 26,550,000 | 26,700,000 | 355 | 1206 | 0.323298586 | |
| 13 | 26,625,000 | 26,775,000 | 356 | 1330 | 0.841104871 | MYO3A |
| 13 | 26,700,000 | 26,850,000 | 357 | 664 | 0.493564631 | MYO3A |
| 13 | 26,775,000 | 26,925,000 | 358 | 282 | -0.30156873 | MYO3A |
| 13 | 26,850,000 | 27,000,000 | 359 | 414 | -0.855794762 | GAD2,MYO3A |
| 13 | 26,925,000 | 27,075,000 | 360 | 407 | -1.133627289 | FZD8,GAD2,GJD4,MYO3A |
| 13 | 27,000,000 | 27,150,000 | 361 | 271 | -2.343905252 | FZD8,GJD4 |
| 13 | 27,075,000 | 27,225,000 | 362 | 452 | 0.046528925 | |
| 13 | 27,150,000 | 27,300,000 | 363 | 746 | 0.62920191 | |
| 13 | 27,225,000 | 27,375,000 | 364 | 1018 | 0.641031801 | |
| 13 | 27,300,000 | 27,450,000 | 365 | 899 | 0.468072621 | |
| 13 | 27,375,000 | 27,525,000 | 366 | 716 | 0.118676091 | |
| 13 | 27,450,000 | 27,600,000 | 367 | 818 | 0.16011202 | |
| 13 | 27,525,000 | 27,675,000 | 368 | 792 | 0.232093543 | |
| 13 | 27,600,000 | 27,750,000 | 369 | 885 | 0.463564745 | |
| 13 | 27,675,000 | 27,825,000 | 370 | 981 | 0.795345932 | |
| 13 | 27,750,000 | 27,900,000 | 371 | 920 | 0.892971412 | |
| 13 | 27,825,000 | 27,975,000 | 372 | 901 | 0.677807329 | |
| 13 | 27,900,000 | 28,050,000 | 373 | 852 | 0.331117304 | |
| 13 | 27,975,000 | 28,125,000 | 374 | 824 | 0.301853699 | OPTN |
| 13 | 28,050,000 | 28,200,000 | 375 | 972 | 0.743245101 | MCM10,OPTN |
| 13 | 28,125,000 | 28,275,000 | 376 | 711 | 0.554506992 | MCM10,PHYH,ENSBTAG00000047869 |
| 13 | 28,200,000 | 28,350,000 | 377 | 485 | 0.855108748 | PHYH,SEPHS1,ENSBTAG00000047869 |
| 13 | 28,275,000 | 28,425,000 | 378 | 596 | 1.19924286 | BEND7,PHYH,SEPHS1 |
| 13 | 28,350,000 | 28,500,000 | 379 | 556 | 1.190718172 | BEND7 |
| 13 | 28,425,000 | 28,575,000 | 380 | 458 | 1.183105286 | BEND7,PRPF18 |
| 13 | 28,500,000 | 28,650,000 | 381 | 357 | 1.085493145 | FRMD4A,PRPF18 |
| 13 | 28,575,000 | 28,725,000 | 382 | 411 | -0.129592567 | FRMD4A,PRPF18 |
| 13 | 28,650,000 | 28,800,000 | 383 | 558 | 0.276529269 | FRMD4A |
| 13 | 28,725,000 | 28,875,000 | 384 | 522 | 0.93515995 | FRMD4A |
| 13 | 28,800,000 | 28,950,000 | 385 | 464 | 0.740068443 | FRMD4A |
| 13 | 28,875,000 | 29,025,000 | 386 | 500 | 0.754024909 | FRMD4A |
| 13 | 28,950,000 | 29,100,000 | 387 | 782 | -0.916291935 | FRMD4A |
| 13 | 29,025,000 | 29,175,000 | 388 | 969 | -0.786274713 | |
| 13 | 29,100,000 | 29,250,000 | 389 | 1354 | 1.109105632 | |
| 13 | 29,175,000 | 29,325,000 | 390 | 1233 | 0.791196866 | |
| 13 | 29,250,000 | 29,400,000 | 391 | 956 | 0.758594453 | |
| 13 | 29,325,000 | 29,475,000 | 392 | 1306 | -0.951858538 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 29,400,000 | 29,550,000 | 393 | 1269 | -1.205660679 | FAM107B |
| 13 | 29,475,000 | 29,625,000 | 394 | 1238 | 0.595743273 | FAM107B |
| 13 | 29,550,000 | 29,700,000 | 395 | 1268 | 0.715578033 | FAM107B |
| 13 | 29,625,000 | 29,775,000 | 396 | 834 | 0.772247989 | CDNF |
| 13 | 29,700,000 | 29,850,000 | 397 | 346 | 0.571942768 | CDNF,DCLRE1C,HSPA14,SUV39H2,ENSBTAG00000045609 |
| 13 | 29,775,000 | 29,925,000 | 398 | 500 | 0.771225095 | CDNF,DCLRE1C,HSPA14,MEIG1,OLAH,SUV39H2,ENSBTAG00000045609 |
| 13 | 29,850,000 | 30,000,000 | 399 | 633 | 0.619450069 | ACBD7,DCLRE1C,MEIG1,NMT2,OLAH,RPP38 |
| 13 | 29,925,000 | 30,075,000 | 400 | 672 | -1.254619101 | ACBD7,C13H10ORF38,NMT2,OLAH,RPP38 |
| 13 | 30,000,000 | 30,150,000 | 401 | 844 | -0.306788507 | C13H10ORF38,NMT2 |
| 13 | 30,075,000 | 30,225,000 | 402 | 1109 | 0.703967493 | C13H10ORF38 |
| 13 | 30,150,000 | 30,300,000 | 403 | 1061 | 0.131524918 | |
| 13 | 30,225,000 | 30,375,000 | 404 | 703 | -0.398727876 | ITGA8 |
| 13 | 30,300,000 | 30,450,000 | 405 | 547 | 0.565714175 | ITGA8 |
| 13 | 30,375,000 | 30,525,000 | 406 | 657 | 0.770951565 | ITGA8 |
| 13 | 30,450,000 | 30,600,000 | 407 | 919 | 0.398714989 | ITGA8 |
| 13 | 30,525,000 | 30,675,000 | 408 | 923 | 0.493465604 | FAM188A,ITGA8 |
| 13 | 30,600,000 | 30,750,000 | 409 | 925 | 0.896731652 | FAM188A |
| 13 | 30,675,000 | 30,825,000 | 410 | 1338 | 0.201756857 | FAM188A |
| 13 | 30,750,000 | 30,900,000 | 411 | 1375 | 0.291132035 | |
| 13 | 30,825,000 | 30,975,000 | 412 | 965 | 0.812493864 | |
| 13 | 30,900,000 | 31,050,000 | 413 | 724 | 0.630609646 | |
| 13 | 30,975,000 | 31,125,000 | 414 | 661 | -0.125216836 | |
| 13 | 31,050,000 | 31,200,000 | 415 | 739 | 0.35642317 | |
| 13 | 31,125,000 | 31,275,000 | 416 | 1006 | 1.029933702 | PTER |
| 13 | 31,200,000 | 31,350,000 | 417 | 997 | 1.042419343 | C1QL3,PTER,RSU1 |
| 13 | 31,275,000 | 31,425,000 | 418 | 1154 | 1.226839445 | C1QL3,PTER,RSU1 |
| 13 | 31,350,000 | 31,500,000 | 419 | 1145 | 0.885909096 | RSU1 |
| 13 | 31,425,000 | 31,575,000 | 420 | 948 | -0.79942163 | CUBN,RSU1 |
| 13 | 31,500,000 | 31,650,000 | 421 | 1173 | -0.595081375 | CUBN,RSU1 |
| 13 | 31,575,000 | 31,725,000 | 422 | 894 | -0.167373152 | CUBN |
| 13 | 31,650,000 | 31,800,000 | 423 | 748 | 0.258873869 | CUBN |
| 13 | 31,725,000 | 31,875,000 | 424 | 857 | 0.661569102 | CUBN,TRDMT1 |
| 13 | 31,800,000 | 31,950,000 | 425 | 959 | 0.870289347 | CUBN,TRDMT1,VIM |
| 13 | 31,875,000 | 32,025,000 | 426 | 1006 | 0.871220652 | TRDMT1,VIM |
| 13 | 31,950,000 | 32,100,000 | 427 | 885 | 0.88851446 | ST8SIA6,VIM |
| 13 | 32,025,000 | 32,175,000 | 428 | 666 | 1.091659064 | ST8SIA6 |
| 13 | 32,100,000 | 32,250,000 | 429 | 505 | 1.251661534 | ST8SIA6 |
| 13 | 32,175,000 | 32,325,000 | 430 | 486 | 1.286526438 | ST8SIA6 |
| 13 | 32,250,000 | 32,400,000 | 431 | 474 | 1.118259633 | PTPLA,STAM |
| 13 | 32,325,000 | 32,475,000 | 432 | 540 | 0.696947497 | PTPLA,STAM |
| 13 | 32,400,000 | 32,550,000 | 433 | 488 | 0.350276877 | MRC1,STAM,TMEM236 |
| 13 | 32,475,000 | 32,625,000 | 434 | 537 | -0.000642473 | MRC1,TMEM236 |
| 13 | 32,550,000 | 32,700,000 | 435 | 590 | -0.257342954 | MRC1,SLC39A12 |
| 13 | 32,625,000 | 32,775,000 | 436 | 427 | -0.913217689 | MRC1,SLC39A12 |
| 13 | 32,700,000 | 32,850,000 | 437 | 376 | -1.861874219 | SLC39A12 |
| 13 | 32,775,000 | 32,925,000 | 438 | 610 | -1.42999332 | |
| 13 | 32,850,000 | 33,000,000 | 439 | 818 | -0.699815861 | |
| 13 | 32,925,000 | 33,075,000 | 440 | 610 | 0.542042255 | CACNB2 |
| 13 | 33,000,000 | 33,150,000 | 441 | 580 | 1.040692549 | CACNB2 |
| 13 | 33,075,000 | 33,225,000 | 442 | 806 | 0.632056863 | CACNB2 |
| 13 | 33,150,000 | 33,300,000 | 443 | 691 | 0.454340022 | CACNB2,ENSBTAG00000022003 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 13 | 33,225,000 | 33,375,000 | 444 | 513 | -0.513408984 | CACNB2,ENSBTAG00000022003 |
| 13 | 33,300,000 | 33,450,000 | 445 | 526 | -2.383877814 | ENSBTAG00000022003 |
| 13 | 33,375,000 | 33,525,000 | 446 | 413 | -2.342907584 | EPC1 |
| 13 | 33,450,000 | 33,600,000 | 447 | 581 | -0.372048543 | EPC1 |
| 13 | 33,525,000 | 33,675,000 | 448 | 834 | -0.199108054 | KIF5B |
| 13 | 33,600,000 | 33,750,000 | 449 | 419 | -0.052329352 | ARHGAP12,KIF5B |
| 13 | 33,675,000 | 33,825,000 | 450 | 123 | 1.124894512 | ARHGAP12 |
| 13 | 33,750,000 | 33,900,000 | 451 | 284 | 1.133484463 | ARHGAP12 |
| 13 | 33,825,000 | 33,975,000 | 452 | 392 | 0.343427049 | ARHGAP12 |
| 13 | 33,900,000 | 34,050,000 | 453 | 384 | -0.490301854 | |
| 13 | 33,975,000 | 34,125,000 | 454 | 409 | 0.140624228 | ZEB1 |
| 13 | 34,050,000 | 34,200,000 | 455 | 345 | 0.671986873 | ZEB1 |
| 13 | 34,125,000 | 34,275,000 | 456 | 240 | 0.750660409 | ZEB1 |
| 13 | 34,200,000 | 34,350,000 | 457 | 247 | 1.11329286 | ZEB1 |
| 13 | 34,275,000 | 34,425,000 | 458 | 340 | 1.396088098 | |
| 13 | 34,350,000 | 34,500,000 | 459 | 265 | 1.380715665 | |
| 13 | 34,425,000 | 34,575,000 | 460 | 209 | 0.996986612 | ZNF438 |
| 13 | 34,500,000 | 34,650,000 | 461 | 287 | 1.171279056 | ZNF438 |
| 13 | 34,575,000 | 34,725,000 | 462 | 260 | 1.295369796 | ZNF438 |
| 13 | 34,650,000 | 34,800,000 | 463 | 417 | 0.452813498 | ZNF438 |
| 13 | 34,725,000 | 34,875,000 | 464 | 480 | 0.294548101 | SVIL,ZNF438 |
| 13 | 34,800,000 | 34,950,000 | 465 | 376 | 0.339397585 | SVIL,ZNF438 |
| 13 | 34,875,000 | 35,025,000 | 466 | 507 | -0.098988975 | SVIL |
| 13 | 34,950,000 | 35,100,000 | 467 | 961 | 0.032830901 | SVIL |
| 13 | 35,025,000 | 35,175,000 | 468 | 933 | 0.394203861 | |
| 13 | 35,100,000 | 35,250,000 | 469 | 533 | 0.941608434 | |
| 13 | 35,175,000 | 35,325,000 | 470 | 470 | 0.917306018 | |
| 13 | 35,250,000 | 35,400,000 | 471 | 383 | 1.08117934 | JCAD |
| 13 | 35,325,000 | 35,475,000 | 472 | 523 | -0.004658486 | JCAD |
| 13 | 35,400,000 | 35,550,000 | 473 | 771 | -0.231404021 | MTPAP |
| 13 | 35,475,000 | 35,625,000 | 474 | 679 | -0.189514913 | MAP3K8,MTPAP |
| 13 | 35,550,000 | 35,700,000 | 475 | 618 | -1.003389614 | MAP3K8,MTPAP |
| 13 | 35,625,000 | 35,775,000 | 476 | 659 | -1.056529277 | MAP3K8 |
| 13 | 35,700,000 | 35,850,000 | 477 | 633 | -0.359363306 | LYZL1 |
| 13 | 35,775,000 | 35,925,000 | 478 | 615 | -1.144643571 | LYZL1 |
| 13 | 35,850,000 | 36,000,000 | 479 | 507 | -2.107428979 | |
| 13 | 35,925,000 | 36,075,000 | 480 | 399 | -1.301443178 | |
| 13 | 36,000,000 | 36,150,000 | 481 | 363 | -0.127982583 | |
| 13 | 36,075,000 | 36,225,000 | 482 | 424 | -0.730005685 | |
| 13 | 36,150,000 | 36,300,000 | 483 | 680 | 0.196209712 | |
| 13 | 36,225,000 | 36,375,000 | 484 | 738 | 1.133819112 | BAMBI,WAC |
| 13 | 36,300,000 | 36,450,000 | 485 | 552 | 1.144538343 | BAMBI,WAC |
| 13 | 36,375,000 | 36,525,000 | 486 | 426 | 0.884727153 | WAC |
| 13 | 36,450,000 | 36,600,000 | 487 | 628 | 0.677553958 | |
| 13 | 36,525,000 | 36,675,000 | 488 | 808 | 0.578820196 | MPP7 |
| 13 | 36,600,000 | 36,750,000 | 489 | 586 | 0.249501728 | MPP7 |
| 13 | 36,675,000 | 36,825,000 | 490 | 514 | 0.616988326 | MPP7 |
| 13 | 36,750,000 | 36,900,000 | 491 | 757 | 0.446413499 | ARMC4,MPP7 |
| 13 | 36,825,000 | 36,975,000 | 492 | 1021 | 0.852041268 | ARMC4,MPP7 |
| 13 | 36,900,000 | 37,050,000 | 493 | 917 | 1.081454444 | ARMC4 |
| 13 | 36,975,000 | 37,125,000 | 494 | 688 | 0.614588949 | ARMC4 |
| 13 | 37,050,000 | 37,200,000 | 495 | 618 | 0.616690077 | MKX |
| 13 | 37,125,000 | 37,275,000 | 496 | 497 | 0.697687069 | MKX |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 13 | 37,200,000 | 37,350,000 | 497 | 932 | 0.454988167 | RAB18 |
| 13 | 37,275,000 | 37,425,000 | 498 | 984 | 0.621720934 | RAB18,ENSBTAG00000048079 |
| 13 | 37,350,000 | 37,500,000 | 499 | 599 | 0.374769525 | ENSBTAG00000048079 |
| 13 | 37,425,000 | 37,575,000 | 500 | 698 | 0.318938302 | |
| 13 | 37,500,000 | 37,650,000 | 501 | 754 | 0.592646742 | |
| 13 | 37,575,000 | 37,725,000 | 502 | 722 | 0.426341811 | |
| 13 | 37,650,000 | 37,800,000 | 503 | 657 | 0.722427388 | |
| 13 | 37,725,000 | 37,875,000 | 504 | 589 | -0.02472858 | PCSK2 |
| 13 | 37,800,000 | 37,950,000 | 505 | 394 | -2.809380468 | PCSK2 |
| 13 | 37,875,000 | 38,025,000 | 506 | 236 | -0.929125702 | PCSK2 |
| 13 | 37,950,000 | 38,100,000 | 507 | 303 | 0.614141642 | PCSK2,SLC6A9 |
| 13 | 38,025,000 | 38,175,000 | 508 | 476 | 0.983232381 | PCSK2,SLC6A9 |
| 13 | 38,100,000 | 38,250,000 | 509 | 557 | 0.670478764 | BFSP1,SLC6A9 |
| 13 | 38,175,000 | 38,325,000 | 510 | 538 | 0.252011205 | BFSP1,DSTN,RRBP1 |
| 13 | 38,250,000 | 38,400,000 | 511 | 421 | -0.673905186 | BANF2,DSTN,RRBP1 |
| 13 | 38,325,000 | 38,475,000 | 512 | 352 | -0.887363523 | BANF2 |
| 13 | 38,400,000 | 38,550,000 | 513 | 407 | 0.084126237 | MGME1,SNX5 |
| 13 | 38,475,000 | 38,625,000 | 514 | 489 | 0.216957615 | MGME1,OVOL2,SNX5 |
| 13 | 38,550,000 | 38,700,000 | 515 | 611 | 0.492745173 | CSRP2BP,MGME1,OVOL2 |
| 13 | 38,625,000 | 38,775,000 | 516 | 557 | 0.498105246 | CSRP2BP,ZNF133 |
| 13 | 38,700,000 | 38,850,000 | 517 | 384 | 0.158866504 | C13H20ORF12,POLR3F,ZNF133 |
| 13 | 38,775,000 | 38,925,000 | 518 | 363 | -2.00819122 | C13H20ORF12,DTD1,POLR3F,RBBP9,SEC23B |
| 13 | 38,850,000 | 39,000,000 | 519 | 375 | -2.565477906 | DTD1,POLR3F,RBBP9,RPL5,SEC23B |
| 13 | 38,925,000 | 39,075,000 | 520 | 715 | -1.693487595 | DTD1,RPL5,SCP2D1 |
| 13 | 39,000,000 | 39,150,000 | 521 | 1211 | -0.066164755 | SCP2D1 |
| 13 | 39,075,000 | 39,225,000 | 522 | 820 | 0.835893024 | SLC24A3 |
| 13 | 39,150,000 | 39,300,000 | 523 | 517 | 0.892854005 | SLC24A3 |
| 13 | 39,225,000 | 39,375,000 | 524 | 664 | 0.926483522 | SLC24A3 |
| 13 | 39,300,000 | 39,450,000 | 525 | 738 | 0.628798662 | SLC24A3 |
| 13 | 39,375,000 | 39,525,000 | 526 | 686 | 0.72422476 | SLC24A3 |
| 13 | 39,450,000 | 39,600,000 | 527 | 815 | 0.839057979 | SLC24A3 |
| 13 | 39,525,000 | 39,675,000 | 528 | 1222 | 0.71576604 | SLC24A3,ENSBTAG00000032893 |
| 13 | 39,600,000 | 39,750,000 | 529 | 1167 | 0.716721307 | SLC24A3,ENSBTAG00000032893 |
| 13 | 39,675,000 | 39,825,000 | 530 | 1034 | 0.907803521 | RIN2 |
| 13 | 39,750,000 | 39,900,000 | 531 | 889 | 1.045034093 | NAA20,RIN2 |
| 13 | 39,825,000 | 39,975,000 | 532 | 698 | 1.22925784 | CFAP61,CRNKL1,NAA20,RIN2 |
| 13 | 39,900,000 | 40,050,000 | 533 | 946 | 1.236633915 | CFAP61,CRNKL1,NAA20 |
| 13 | 39,975,000 | 40,125,000 | 534 | 1070 | 1.183037248 | CFAP61 |
| 13 | 40,050,000 | 40,200,000 | 535 | 761 | 1.188558789 | CFAP61 |
| 13 | 40,125,000 | 40,275,000 | 536 | 585 | 1.306375157 | CFAP61,INSM1 |
| 13 | 40,200,000 | 40,350,000 | 537 | 673 | 1.214378037 | CFAP61,INSM1,RALGAPA2 |
| 13 | 40,275,000 | 40,425,000 | 538 | 968 | 1.305261443 | RALGAPA2 |
| 13 | 40,350,000 | 40,500,000 | 539 | 1184 | 1.331665877 | RALGAPA2 |
| 13 | 40,425,000 | 40,575,000 | 540 | 1201 | 1.13624673 | RALGAPA2 |
| 13 | 40,500,000 | 40,650,000 | 541 | 842 | 0.332743623 | RALGAPA2 |
| 13 | 40,575,000 | 40,725,000 | 542 | 406 | -0.919521659 | |
| 13 | 40,650,000 | 40,800,000 | 543 | 465 | -2.85899302 | |
| 13 | 40,725,000 | 40,875,000 | 544 | 533 | -3.043412388 | KIZ |
| 13 | 40,800,000 | 40,950,000 | 545 | 321 | -0.229599237 | KIZ |
| 13 | 40,875,000 | 41,025,000 | 546 | 244 | -0.375176291 | KIZ,XRN2 |
| 13 | 40,950,000 | 41,100,000 | 547 | 313 | -0.659497926 | NKX2-4,XRN2 |
| 13 | 41,025,000 | 41,175,000 | 548 | 377 | 0.080637136 | NAP1L1,NKX2-2,NKX2-4,XRN2 |
| 13 | 41,100,000 | 41,250,000 | 549 | 346 | 0.396687419 | NAP1L1,NKX2-2,PAX1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 41,175,000 | 41,325,000 | 550 | 326 | 0.734656849 | PAX1 |
| 13 | 41,250,000 | 41,400,000 | 551 | 541 | 0.99958188 | PAX1 |
| 13 | 41,325,000 | 41,475,000 | 552 | 651 | 0.442393939 | |
| 13 | 41,400,000 | 41,550,000 | 553 | 847 | 0.791286623 | |
| 13 | 41,475,000 | 41,625,000 | 554 | 915 | 1.125624918 | |
| 13 | 41,550,000 | 41,700,000 | 555 | 1017 | -0.181021585 | |
| 13 | 41,625,000 | 41,775,000 | 556 | 1318 | 0.677683305 | |
| 13 | 41,700,000 | 41,850,000 | 557 | 1049 | 1.426464317 | |
| 13 | 41,775,000 | 41,925,000 | 558 | 511 | 1.033999362 | FOXA2 |
| 13 | 41,850,000 | 42,000,000 | 559 | 417 | 0.752114598 | FOXA2 |
| 13 | 41,925,000 | 42,075,000 | 560 | 697 | 0.060004557 | |
| 13 | 42,000,000 | 42,150,000 | 561 | 667 | -0.516561151 | |
| 13 | 42,075,000 | 42,225,000 | 562 | 455 | 0.023464659 | THBD |
| 13 | 42,150,000 | 42,300,000 | 563 | 417 | -0.183532989 | CD93,THBD |
| 13 | 42,225,000 | 42,375,000 | 564 | 762 | 0.296596667 | CD93 |
| 13 | 42,300,000 | 42,450,000 | 565 | 1025 | -0.433537451 | GZF1,NAPB,NXT1 |
| 13 | 42,375,000 | 42,525,000 | 566 | 836 | -0.544168695 | CST11,CST8,CSTL1,GZF1,MGC133636,NAPB,NXT1,ENSBTAG00000015949,ENSBTAG00000027420 |
| 13 | 42,450,000 | 42,600,000 | 567 | 483 | 0.420587825 | CST11,CST3,CST8,CSTL1,MGC133636,NAPB,ENSBTAG00000015949,ENSBTAG00000027420,ENSBTAG00000032687,ENSBTAG00000047137 |
| 13 | 42,525,000 | 42,675,000 | 568 | 272 | -0.162233965 | CST3,ENSBTAG00000015949,ENSBTAG00000032687,ENSBTAG00000047137 |
| 13 | 42,600,000 | 42,750,000 | 569 | 327 | -0.534336968 | |
| 13 | 42,675,000 | 42,825,000 | 570 | 389 | -0.284122283 | SYNDIG1 |
| 13 | 42,750,000 | 42,900,000 | 571 | 356 | -0.179356988 | SYNDIG1 |
| 13 | 42,825,000 | 42,975,000 | 572 | 669 | -2.320629062 | APMAP,CST7,SYNDIG1 |
| 13 | 42,900,000 | 43,050,000 | 573 | 869 | -2.380771895 | ACSS1,APMAP,CST7,ENTPD6 |
| 13 | 42,975,000 | 43,125,000 | 574 | 619 | -1.346644678 | ACSS1,APMAP,ENTPD6,VSX1 |
| 13 | 43,050,000 | 43,200,000 | 575 | 573 | -0.016546707 | ABHD12,ACSS1,ENTPD6,PYGB,VSX1 |
| 13 | 43,125,000 | 43,275,000 | 576 | 465 | 0.164745515 | ABHD12,ANKRD16,PYGB |
| 13 | 43,200,000 | 43,350,000 | 577 | 294 | 0.232546394 | ABHD12,ANKRD16,FAM208B,GDI2 |
| 13 | 43,275,000 | 43,425,000 | 578 | 348 | 0.651642447 | ASB13,FAM208B,GDI2 |
| 13 | 43,350,000 | 43,500,000 | 579 | 540 | 0.208428419 | ASB13,CALML3,FAM208B |
| 13 | 43,425,000 | 43,575,000 | 580 | 572 | -0.152061564 | CALML3,CALML5,NET1 |
| 13 | 43,500,000 | 43,650,000 | 581 | 715 | 0.051177896 | CALML5,NET1,TUBAL3,UCN3 |
| 13 | 43,575,000 | 43,725,000 | 582 | 671 | -0.107676487 | AKR1C4,TUBAL3,UCN3 |
| 13 | 43,650,000 | 43,800,000 | 583 | 506 | -0.526345746 | AKR1C4,ENSBTAG00000039643,ENSBTAG00000039722 |
| 13 | 43,725,000 | 43,875,000 | 584 | 750 | -0.005883174 | ENSBTAG00000017938,ENSBTAG00000027419,ENSBTAG00000039643,ENSBTAG00000039722 |
| 13 | 43,800,000 | 43,950,000 | 585 | 850 | 0.466591895 | ENSBTAG00000017938,ENSBTAG00000022564,ENSBTAG00000022571,ENSBTAG00000027419,ENSBTAG00000039643 |
| 13 | 43,875,000 | 44,025,000 | 586 | 697 | 0.227419149 | ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022571,ENSBTAG00000039289 |
| 13 | 43,950,000 | 44,100,000 | 587 | 747 | -0.193878814 | ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022570,ENSBTAG00000039289 |
| 13 | 44,025,000 | 44,175,000 | 588 | 823 | -0.330830371 | 20ALPHA-HSD,ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022570 |
| 13 | 44,100,000 | 44,250,000 | 589 | 839 | -0.116182345 | 20ALPHA-HSD,AKR1E2,ENSBTAG00000017191,ENSBTAG00000022564 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 13 | 44,175,000 | 44,325,000 | 590 | 702 | 0.367900006 | AKR1E2,ENSBTAG00000017191 |
| 13 | 44,250,000 | 44,400,000 | 591 | 650 | -0.224114558 | |
| 13 | 44,325,000 | 44,475,000 | 592 | 891 | -0.642300127 | |
| 13 | 44,400,000 | 44,550,000 | 593 | 701 | -0.196627803 | |
| 13 | 44,475,000 | 44,625,000 | 594 | 832 | 0.803050936 | |
| 13 | 44,550,000 | 44,700,000 | 595 | 1045 | 0.774290004 | |
| 13 | 44,625,000 | 44,775,000 | 596 | 678 | 0.425353599 | |
| 13 | 44,700,000 | 44,850,000 | 597 | 551 | 0.649871465 | |
| 13 | 44,775,000 | 44,925,000 | 598 | 685 | 0.735893167 | |
| 13 | 44,850,000 | 45,000,000 | 599 | 652 | 0.374690077 | KLF6 |
| 13 | 44,925,000 | 45,075,000 | 600 | 843 | 0.504644523 | KLF6 |
| 13 | 45,000,000 | 45,150,000 | 601 | 1139 | 0.630640561 | |
| 13 | 45,075,000 | 45,225,000 | 602 | 1106 | -0.072983981 | |
| 13 | 45,150,000 | 45,300,000 | 603 | 963 | 0.194104072 | |
| 13 | 45,225,000 | 45,375,000 | 604 | 1097 | 0.947985932 | |
| 13 | 45,300,000 | 45,450,000 | 605 | 1320 | 0.689200149 | |
| 13 | 45,375,000 | 45,525,000 | 606 | 1200 | 0.683150405 | PFKP,PITRM1 |
| 13 | 45,450,000 | 45,600,000 | 607 | 1037 | 1.109326867 | PFKP,PITRM1 |
| 13 | 45,525,000 | 45,675,000 | 608 | 1106 | 0.822440842 | PFKP |
| 13 | 45,600,000 | 45,750,000 | 609 | 1189 | 0.533572467 | |
| 13 | 45,675,000 | 45,825,000 | 610 | 1160 | 0.968451719 | |
| 13 | 45,750,000 | 45,900,000 | 611 | 997 | 0.560976027 | |
| 13 | 45,825,000 | 45,975,000 | 612 | 699 | 0.066526021 | |
| 13 | 45,900,000 | 46,050,000 | 613 | 498 | 0.171344795 | |
| 13 | 45,975,000 | 46,125,000 | 614 | 454 | 0.43372639 | |
| 13 | 46,050,000 | 46,200,000 | 615 | 752 | 0.32667982 | |
| 13 | 46,125,000 | 46,275,000 | 616 | 1052 | 0.583947285 | |
| 13 | 46,200,000 | 46,350,000 | 617 | 1037 | 0.507123529 | |
| 13 | 46,275,000 | 46,425,000 | 618 | 845 | 0.203866379 | ADARB2 |
| 13 | 46,350,000 | 46,500,000 | 619 | 487 | -0.625644102 | ADARB2,ENSBTAG00000039356 |
| 13 | 46,425,000 | 46,575,000 | 620 | 300 | -1.573696808 | ADARB2,ENSBTAG00000039356 |
| 13 | 46,500,000 | 46,650,000 | 621 | 340 | -1.774554692 | ADARB2,WDR37,ENSBTAG00000039356 |
| 13 | 46,575,000 | 46,725,000 | 622 | 418 | -0.942241266 | ADARB2,GTPBP4,IDI1,WDR37 |
| 13 | 46,650,000 | 46,800,000 | 623 | 379 | -0.823092715 | GTPBP4,IDI1,LARP4B,WDR37 |
| 13 | 46,725,000 | 46,875,000 | 624 | 333 | -1.926650105 | LARP4B |
| 13 | 46,800,000 | 46,950,000 | 625 | 417 | -1.731863338 | LARP4B |
| 13 | 46,875,000 | 47,025,000 | 626 | 390 | -1.505478954 | |
| 13 | 46,950,000 | 47,100,000 | 627 | 306 | -1.316633287 | DIP2C |
| 13 | 47,025,000 | 47,175,000 | 628 | 397 | -0.028185681 | DIP2C |
| 13 | 47,100,000 | 47,250,000 | 629 | 394 | 0.396901363 | DIP2C,ZMYND11 |
| 13 | 47,175,000 | 47,325,000 | 630 | 297 | 0.358091835 | DIP2C,ZMYND11 |
| 13 | 47,250,000 | 47,400,000 | 631 | 380 | 0.299829784 | ZMYND11 |
| 13 | 47,325,000 | 47,475,000 | 632 | 487 | -0.760717023 | PRND,PRNP |
| 13 | 47,400,000 | 47,550,000 | 633 | 530 | -0.970478118 | PRND,PRNP,RASSF2 |
| 13 | 47,475,000 | 47,625,000 | 634 | 594 | 0.121565 | RASSF2,SLC23A2 |
| 13 | 47,550,000 | 47,700,000 | 635 | 620 | 0.900235944 | SLC23A2 |
| 13 | 47,625,000 | 47,775,000 | 636 | 513 | 0.829535736 | SLC23A2 |
| 13 | 47,700,000 | 47,850,000 | 637 | 402 | 0.246760059 | CDS2,PCNA,SLC23A2,TMEM230 |
| 13 | 47,775,000 | 47,925,000 | 638 | 624 | -0.084021871 | CDS2,PCNA,PROKR2,TMEM230 |
| 13 | 47,850,000 | 48,000,000 | 639 | 778 | 0.325564822 | CDS2,PROKR2 |
| 13 | 47,925,000 | 48,075,000 | 640 | 1000 | 0.460862077 | |
| 13 | 48,000,000 | 48,150,000 | 641 | 886 | 0.490836064 | GPCPD1 |
| 13 | 48,075,000 | 48,225,000 | 642 | 624 | 0.849521064 | GPCPD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 48,150,000 | 48,300,000 | 643 | 878 | 0.931519348 | C20orf196,GPCPD1 |
| 13 | 48,225,000 | 48,375,000 | 644 | 960 | 0.832111027 | C20orf196 |
| 13 | 48,300,000 | 48,450,000 | 645 | 980 | 0.807539332 | C20orf196,CHGB |
| 13 | 48,375,000 | 48,525,000 | 646 | 676 | 0.889979648 | C20orf196,CHGB,MCM8,TRMT6 |
| 13 | 48,450,000 | 48,600,000 | 647 | 362 | 0.815193932 | CRLS1,LRRN4,MCM8,TRMT6 |
| 13 | 48,525,000 | 48,675,000 | 648 | 556 | 0.793253385 | CRLS1,FERMT1,LRRN4,MCM8 |
| 13 | 48,600,000 | 48,750,000 | 649 | 910 | 0.10373748 | FERMT1 |
| 13 | 48,675,000 | 48,825,000 | 650 | 921 | -0.285389846 | |
| 13 | 48,750,000 | 48,900,000 | 651 | 536 | -0.04222229 | |
| 13 | 48,825,000 | 48,975,000 | 652 | 364 | -0.443163197 | |
| 13 | 48,900,000 | 49,050,000 | 653 | 542 | 0.401307243 | |
| 13 | 48,975,000 | 49,125,000 | 654 | 661 | 0.622127208 | |
| 13 | 49,050,000 | 49,200,000 | 655 | 502 | 0.132603773 | |
| 13 | 49,125,000 | 49,275,000 | 656 | 370 | 0.510580148 | |
| 13 | 49,200,000 | 49,350,000 | 657 | 442 | 1.173686361 | |
| 13 | 49,275,000 | 49,425,000 | 658 | 415 | 1.247424483 | |
| 13 | 49,350,000 | 49,500,000 | 659 | 432 | 1.311362903 | |
| 13 | 49,425,000 | 49,575,000 | 660 | 354 | 1.23612714 | BMP2 |
| 13 | 49,500,000 | 49,650,000 | 661 | 203 | 0.763754001 | BMP2 |
| 13 | 49,575,000 | 49,725,000 | 662 | 375 | 1.031477543 | |
| 13 | 49,650,000 | 49,800,000 | 663 | 706 | 0.976398554 | |
| 13 | 49,725,000 | 49,875,000 | 664 | 790 | 0.914070912 | |
| 13 | 49,800,000 | 49,950,000 | 665 | 720 | 1.085955958 | |
| 13 | 49,875,000 | 50,025,000 | 666 | 764 | -0.025677693 | |
| 13 | 49,950,000 | 50,100,000 | 667 | 682 | -0.306481269 | |
| 13 | 50,025,000 | 50,175,000 | 668 | 688 | 0.596249119 | |
| 13 | 50,100,000 | 50,250,000 | 669 | 712 | 0.398592777 | |
| 13 | 50,175,000 | 50,325,000 | 670 | 878 | 0.948642344 | |
| | | | | | | UBE2D3,ENSBTAG00000045555,ENSBTAG00000045753,E |
| 13 | 50,250,000 | 50,400,000 | 671 | 689 | 1.029254871 | NSBTAG00000046276,ENSBTAG00000046631,ENSBTAG0000046776,ENSBTAG00000047102,ENSBTAG00000047638,ENSBTAG00000047653,ENSBTAG00000047962,ENSBTAG0000048089,ENSBTAG00000048291 |
| | | | | | | UBE2D3,ENSBTAG00000045555,ENSBTAG00000045753,E |
| 13 | 50,325,000 | 50,475,000 | 672 | 463 | -0.023588351 | NSBTAG00000046276,ENSBTAG00000046631,ENSBTAG0000046776,ENSBTAG00000047102,ENSBTAG00000047638,ENSBTAG00000047653,ENSBTAG00000047962,ENSBTAG0000048089,ENSBTAG00000048291 |
| | | | | | | ENSBTAG00000046631 |
| 13 | 50,400,000 | 50,550,000 | 673 | 950 | -0.143435585 | |
| 13 | 50,475,000 | 50,625,000 | 674 | 1237 | 0.120411227 | |
| 13 | 50,550,000 | 50,700,000 | 675 | 1042 | 0.566667165 | |
| 13 | 50,625,000 | 50,775,000 | 676 | 712 | 0.493210974 | |
| 13 | 50,700,000 | 50,850,000 | 677 | 760 | 0.511805916 | |
| 13 | 50,775,000 | 50,925,000 | 678 | 820 | 0.746914 | |
| 13 | 50,850,000 | 51,000,000 | 679 | 801 | 0.582727259 | |
| 13 | 50,925,000 | 51,075,000 | 680 | 909 | 0.586290978 | |
| 13 | 51,000,000 | 51,150,000 | 681 | 837 | 0.838686856 | HAO1 |
| 13 | 51,075,000 | 51,225,000 | 682 | 732 | 0.804500209 | HAO1,ENSBTAG00000032156 |
| 13 | 51,150,000 | 51,300,000 | 683 | 1320 | 0.414207201 | HAO1,ENSBTAG00000032156 |
| 13 | 51,225,000 | 51,375,000 | 684 | 1312 | 0.00177502 | ADRA1D |
| 13 | 51,300,000 | 51,450,000 | 685 | 922 | 0.0371533 | ADRA1D,SMOX |
| 13 | 51,375,000 | 51,525,000 | 686 | 1142 | 0.526047442 | ADRA1D,SMOX |
| 13 | 51,450,000 | 51,600,000 | 687 | 1131 | 0.564197268 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 51,525,000 | 51,675,000 | 688 | 999 | 0.234217083 | RNF24 |
| 13 | 51,600,000 | 51,750,000 | 689 | 963 | -0.08675879 | PANK2,RNF24 |
| 13 | 51,675,000 | 51,825,000 | 690 | 1013 | 0.244319825 | MAVS,PANK2,RNF24 |
| 13 | 51,750,000 | 51,900,000 | 691 | 761 | 0.366450579 | C20ORF29,C20orf27,CDC25B,CENPB,MAVS,PANK2,SPEF1 |
| 13 | 51,825,000 | 51,975,000 | 692 | 453 | -0.342205004 | ADAM33,C20ORF29,C20orf27,CDC25B,CENPB,HSPA12B,SIGLEC1,SPEF1,ENSBTAG00000027412 |
| 13 | 51,900,000 | 52,050,000 | 693 | 350 | 0.345982221 | ADAM33,ATRN,C20orf27,GFRA4,HSPA12B,SIGLEC1,ENSBTAG00000027412 |
| 13 | 51,975,000 | 52,125,000 | 694 | 366 | 0.26537306 | ADAM33,ATRN,GFRA4 |
| 13 | 52,050,000 | 52,200,000 | 695 | 348 | 0.091195554 | ATRN |
| 13 | 52,125,000 | 52,275,000 | 696 | 334 | 0.18434382 | ATRN,C13H20orf194 |
| 13 | 52,200,000 | 52,350,000 | 697 | 391 | 0.039105625 | C13H20orf194 |
| 13 | 52,275,000 | 52,425,000 | 698 | 456 | 0.756636371 | C13H20orf194 |
| 13 | 52,350,000 | 52,500,000 | 699 | 547 | 1.108324322 | C13H20orf194,DDRJK1,ITPA,SLC4A11,ENSBTAG00000020454 |
| 13 | 52,425,000 | 52,575,000 | 700 | 498 | 0.782051116 | AVP,DDRJK1,ITPA,SLC4A11,UBOX5,ENSBTAG00000020454 |
| 13 | 52,500,000 | 52,650,000 | 701 | 449 | 0.52868092 | AVP,MRPS26,OXT,PTPRA,UBOX5,ENSBTAG00000020454 |
| 13 | 52,575,000 | 52,725,000 | 702 | 384 | 0.67940945 | MRPS26,OXT,PTPRA |
| 13 | 52,650,000 | 52,800,000 | 703 | 305 | 0.717015914 | PTPRA,VPS16 |
| 13 | 52,725,000 | 52,875,000 | 704 | 495 | -0.286850669 | CPXM,PCED1A,PTPRA,TMEM239,VPS16,ENSBTAG00000021817 |
| 13 | 52,800,000 | 52,950,000 | 705 | 919 | -0.119387558 | CPXM,EBF4,PCED1A,TMEM239,VPS16,ENSBTAG00000021817 |
| 13 | 52,875,000 | 53,025,000 | 706 | 789 | 0.341673432 | EBF4,IDH3B,NOP56,TMC2 |
| 13 | 52,950,000 | 53,100,000 | 707 | 342 | 0.175200643 | IDH3B,NOP56,TMC2 |
| 13 | 53,025,000 | 53,175,000 | 708 | 588 | 0.810740851 | SNRPB,TGM6,TMC2 |
| 13 | 53,100,000 | 53,250,000 | 709 | 971 | 1.012845007 | SNRPB,TGM6,TMC2 |
| 13 | 53,175,000 | 53,325,000 | 710 | 903 | 0.731094626 | TGM3,TGM6,ENSBTAG00000022534 |
| 13 | 53,250,000 | 53,400,000 | 711 | 639 | 0.451999665 | TGM3,ENSBTAG00000022534 |
| 13 | 53,325,000 | 53,475,000 | 712 | 504 | 0.29826016 | |
| 13 | 53,400,000 | 53,550,000 | 713 | 487 | -0.463658612 | STK35 |
| 13 | 53,475,000 | 53,625,000 | 714 | 822 | 0.245346463 | PDYN,STK35 |
| 13 | 53,550,000 | 53,700,000 | 715 | 1625 | 0.623877387 | PDYN,SIRPA |
| 13 | 53,625,000 | 53,775,000 | 716 | 1595 | 0.77577675 | SIRPA |
| 13 | 53,700,000 | 53,850,000 | 717 | 1239 | 1.320914231 | SIRPA,ENSBTAG00000039016,ENSBTAG00000048087 |
| 13 | 53,775,000 | 53,925,000 | 718 | 1759 | 0.608703752 | SIRPB1,ENSBTAG00000039016,ENSBTAG00000048087 |
| 13 | 53,850,000 | 54,000,000 | 719 | 2067 | 0.168489632 | SIRPB1,ENSBTAG00000039016 |
| 13 | 53,925,000 | 54,075,000 | 720 | 2097 | 0.342403524 | GINS1,SIRPB1,ENSBTAG00000011638,ENSBTAG00000027221 |
| 13 | 54,000,000 | 54,150,000 | 721 | 2119 | 0.438828905 | GINS1,PCMTD2,ENSBTAG00000011638,ENSBTAG00000027221 |
| 13 | 54,075,000 | 54,225,000 | 722 | 1498 | 0.558611938 | GINS1,MYT1,PCMTD2 |
| 13 | 54,150,000 | 54,300,000 | 723 | 749 | 0.931676604 | LKAAEAR1,MYT1,NPBWR2,OPRL1,RGS19,SOX18,TCEA2 |
| 13 | 54,225,000 | 54,375,000 | 724 | 477 | 1.132946093 | LKAAEAR1,NPBWR2,OPRL1,PRPF6,RGS19,SAMD10,SOX18,TCEA2,UCKL1,ZNF512B |
| 13 | 54,300,000 | 54,450,000 | 725 | 410 | 1.044879634 | C13H20ORF135,DNAJC5,PRPF6,SAMD10,TPD52L2,UCKL1,ZNF512B |
| 13 | 54,375,000 | 54,525,000 | 726 | 487 | 1.092763425 | ARFRP1,C13H20ORF135,DNAJC5,SLC2A4RG,TPD52L2,ZBTB46,ZGPAT,ENSBTAG0000007501 |
| 13 | 54,450,000 | 54,600,000 | 727 | 485 | 1.010908825 | ARFRP1,C20orf195,GMEB2,PTK6,RTEL,RTEL1,SLC2A4RG,SRMS,STMN3,TNFRSF6B,ZBTB46,ZGPAT,ENSBTAG0000007501 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 54,525,000 | 54,675,000 | 728 | 636 | 1.036013154 | ARFRP1,C20orf195,EEF1A2,GMEB2,KCNQ2,PPDPF,PTK6,RT EL,RTKL1,SRMS,STMN3,TNFRSF6B |
| 13 | 54,600,000 | 54,750,000 | 729 | 994 | 1.134464705 | CHRNA4,COL20A1,EEF1A2,KCNQ2,PPDPF,PTK6 |
| 13 | 54,675,000 | 54,825,000 | 730 | 1226 | 0.834642377 | ARFGAP3,BIRC7,CHRNA4,COL20A1,KCNQ2,YTHDF1 |
| 13 | 54,750,000 | 54,900,000 | 731 | 1276 | 0.695249002 | ARFGAP3,BHLHE23,BIRC7,COL20A1,YTHDF1 |
| 13 | 54,825,000 | 54,975,000 | 732 | 1030 | 0.9797332 | BHLHE23,DIDO1,GID8,SLC17A9 |
| 13 | 54,900,000 | 55,050,000 | 733 | 555 | 1.05907419 | COL9A3,DIDO1,GID8,OGFR,SLC17A9,TCFL5 |
| 13 | 54,975,000 | 55,125,000 | 734 | 482 | 1.087669493 | C13H20orf20,COL9A3,DIDO1,NTSR1,OGFR,TCFL5 |
| 13 | 55,050,000 | 55,200,000 | 735 | 486 | 0.912089715 | C13H20orf20,NTSR1,OGFR,SLCO4A1 |
| 13 | 55,125,000 | 55,275,000 | 736 | 345 | 0.528163899 | NTSR1,SLCO4A1 |
| 13 | 55,200,000 | 55,350,000 | 737 | 370 | 0.273988022 | CABLES2,GATA5,RBBP8NL |
| 13 | 55,275,000 | 55,425,000 | 738 | 295 | 0.21265637 | CABLES2,GATA5,LAMA5,RBBP8NL,RPS21 |
| 13 | 55,350,000 | 55,500,000 | 739 | 258 | 0.58912262 | ADRM1,CABLES2,LAMA5,OSBPL2,RPS21 |
| 13 | 55,425,000 | 55,575,000 | 740 | 306 | 0.510398265 | ADRM1,GTPBP5,HRH3,LAMA5,OSBPL2,PSMA7,SS18L1,EN SBTAG00000021558 |
| 13 | 55,500,000 | 55,650,000 | 741 | 381 | 0.166449364 | GTPBP5,HRH3,PSMA7,SS18L1,TAF4,ENSBTAG0000002155 8 |
| 13 | 55,575,000 | 55,725,000 | 742 | 357 | 0.287342974 | CDH4,TAF4 |
| 13 | 55,650,000 | 55,800,000 | 743 | 431 | 0.69196588 | CDH4,TAF4 |
| 13 | 55,725,000 | 55,875,000 | 744 | 605 | 0.979318057 | CDH4 |
| 13 | 55,800,000 | 55,950,000 | 745 | 651 | 1.156056117 | CDH4 |
| 13 | 55,875,000 | 56,025,000 | 746 | 645 | 0.664772497 | |
| 13 | 55,950,000 | 56,100,000 | 747 | 624 | -0.577723476 | |
| 13 | 56,025,000 | 56,175,000 | 748 | 896 | 0.192913268 | |
| 13 | 56,100,000 | 56,250,000 | 749 | 840 | 0.326196974 | |
| 13 | 56,175,000 | 56,325,000 | 750 | 719 | -0.688579817 | |
| 13 | 56,250,000 | 56,400,000 | 751 | 851 | -0.443017141 | |
| 13 | 56,325,000 | 56,475,000 | 752 | 802 | -0.611720377 | |
| 13 | 56,400,000 | 56,550,000 | 753 | 931 | -0.549299006 | |
| 13 | 56,475,000 | 56,625,000 | 754 | 957 | 0.198171514 | |
| 13 | 56,550,000 | 56,700,000 | 755 | 645 | -0.725211721 | |
| 13 | 56,625,000 | 56,775,000 | 756 | 428 | -1.971415906 | |
| 13 | 56,700,000 | 56,850,000 | 757 | 592 | -0.910763672 | |
| 13 | 56,775,000 | 56,925,000 | 758 | 859 | -0.618233342 | |
| 13 | 56,850,000 | 57,000,000 | 759 | 838 | -0.271419006 | |
| 13 | 56,925,000 | 57,075,000 | 760 | 927 | 0.232012025 | CDH26 |
| 13 | 57,000,000 | 57,150,000 | 761 | 781 | -0.148909477 | CDH26,FAM217B,PPP1R3D,SYCP2 |
| 13 | 57,075,000 | 57,225,000 | 762 | 401 | -1.416339016 | CDH26,FAM217B,PHACTR3,PPP1R3D,SYCP2 |
| 13 | 57,150,000 | 57,300,000 | 763 | 547 | -0.337755371 | PHACTR3,SYCP2 |
| 13 | 57,225,000 | 57,375,000 | 764 | 628 | 0.274430744 | PHACTR3 |
| 13 | 57,300,000 | 57,450,000 | 765 | 746 | 0.621349105 | |
| 13 | 57,375,000 | 57,525,000 | 766 | 667 | -0.152146349 | |
| 13 | 57,450,000 | 57,600,000 | 767 | 573 | -0.158764368 | EDN3 |
| 13 | 57,525,000 | 57,675,000 | 768 | 790 | 0.42836505 | EDN3,ZNF831 |
| 13 | 57,600,000 | 57,750,000 | 769 | 771 | 0.837893025 | ZNF831 |
| 13 | 57,675,000 | 57,825,000 | 770 | 570 | 0.923030986 | ZNF831 |
| 13 | 57,750,000 | 57,900,000 | 771 | 414 | 0.979920993 | ATP5E,CTSZ,NELFCD,SLMO2,TUBB1 |
| 13 | 57,825,000 | 57,975,000 | 772 | 384 | 0.864592445 | ATP5E,CTSZ,NELFCD,SLMO2,TUBB1 |
| 13 | 57,900,000 | 58,050,000 | 773 | 355 | 0.454691167 | GNAS,NELFCD |
| 13 | 57,975,000 | 58,125,000 | 774 | 295 | 0.119502138 | GNAS |
| 13 | 58,050,000 | 58,200,000 | 775 | 286 | -0.418420838 | |
| 13 | 58,125,000 | 58,275,000 | 776 | 253 | 0.012321879 | NPEPL1,ENSBTAG00000003872 |
| 13 | 58,200,000 | 58,350,000 | 777 | 222 | 0.940143764 | NPEPL1,ENSBTAG00000003872 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 58,275,000 | 58,425,000 | 778 | 248 | 0.143941198 | |
| 13 | 58,350,000 | 58,500,000 | 779 | 280 | 0.007845593 | APCDD1L,VAPB |
| 13 | 58,425,000 | 58,575,000 | 780 | 351 | -0.177566456 | APCDD1L,RAB22A,VAPB |
| 13 | 58,500,000 | 58,650,000 | 781 | 441 | -0.79734595 | RAB22A,VAPB |
| 13 | 58,575,000 | 58,725,000 | 782 | 485 | 0.086196711 | ANKRD60,C13H20ORF85,RAB22A |
| 13 | 58,650,000 | 58,800,000 | 783 | 461 | 0.658576274 | ANKRD60,C13H20ORF85 |
| 13 | 58,725,000 | 58,875,000 | 784 | 514 | 0.445541814 | C13H20ORF85 |
| 13 | 58,800,000 | 58,950,000 | 785 | 692 | 0.554272526 | |
| 13 | 58,875,000 | 59,025,000 | 786 | 824 | 0.924145378 | PMEPA1 |
| 13 | 58,950,000 | 59,100,000 | 787 | 731 | 1.072238948 | PMEPA1,ZBP1 |
| 13 | 59,025,000 | 59,175,000 | 788 | 705 | 0.88441716 | PCK1,PMEPA1,ZBP1 |
| 13 | 59,100,000 | 59,250,000 | 789 | 621 | 0.831005529 | BORIS,PCK1,ZBP1 |
| 13 | 59,175,000 | 59,325,000 | 790 | 360 | 0.421101298 | BORIS,RAE1,RBM38 |
| 13 | 59,250,000 | 59,400,000 | 791 | 229 | -0.344503388 | RAE1,RBM38,SPO11 |
| 13 | 59,325,000 | 59,475,000 | 792 | 312 | -2.161303925 | BMP7,RAE1,SPO11 |
| 13 | 59,400,000 | 59,550,000 | 793 | 425 | -2.650966474 | BMP7 |
| 13 | 59,475,000 | 59,625,000 | 794 | 762 | -2.730555114 | BMP7 |
| 13 | 59,550,000 | 59,700,000 | 795 | 894 | -2.196196079 | |
| 13 | 59,625,000 | 59,775,000 | 796 | 643 | -0.735747492 | |
| 13 | 59,700,000 | 59,850,000 | 797 | 623 | -1.473931772 | |
| 13 | 59,775,000 | 59,925,000 | 798 | 634 | -2.83126697 | TFAP2C |
| 13 | 59,850,000 | 60,000,000 | 799 | 498 | -2.264654674 | FAM209B,GCNT7,RTFDC1,TFAP2C,ENSBTAG00000024608 |
| 13 | 59,925,000 | 60,075,000 | 800 | 400 | -1.474739094 | CASS4,FAM209B,GCNT7,RTFDC1,ENSBTAG00000024608 |
| 13 | 60,000,000 | 60,150,000 | 801 | 371 | -1.124606254 | AURKA,C13H20ORF108,CASS4,CSTF1,GCNT7,RTFDC1 |
| 13 | 60,075,000 | 60,225,000 | 802 | 284 | -0.276546342 | AURKA,C13H20ORF108,CSTF1,MC3R,SIRPD |
| 13 | 60,150,000 | 60,300,000 | 803 | 319 | -0.355881333 | FKBP1A,MC3R,NSFL1C,SIRPB2,SIRPD |
| 13 | 60,225,000 | 60,375,000 | 804 | 527 | -0.089364886 | FKBP1A,NSFL1C,SDCBP2,SIRPB2,SNPH |
| 13 | 60,300,000 | 60,450,000 | 805 | 628 | -0.769988049 | FKBP1A,RAD21L1,SDCBP2,SNPH |
| 13 | 60,375,000 | 60,525,000 | 806 | 958 | -0.320384671 | PSMF1,RAD21L1,TMEM74B |
| 13 | 60,450,000 | 60,600,000 | 807 | 1158 | -0.081364385 | PSMF1,TMEM74B |
| 13 | 60,525,000 | 60,675,000 | 808 | 1071 | -0.060926007 | PSMF1 |
| 13 | 60,600,000 | 60,750,000 | 809 | 954 | 0.606190889 | ANGPTL4,RSPO4 |
| 13 | 60,675,000 | 60,825,000 | 810 | 642 | 0.641121383 | ANGPTL4,FAM110A,RSPO4 |
| 13 | 60,750,000 | 60,900,000 | 811 | 435 | 0.364096168 | ANGPTL4,FAM110A,SLC52A3 |
| 13 | 60,825,000 | 60,975,000 | 812 | 516 | 0.523540198 | SLC52A3,SRXN1 |
| 13 | 60,900,000 | 61,050,000 | 813 | 504 | 0.593338985 | SRXN1,TCF15 |
| 13 | 60,975,000 | 61,125,000 | 814 | 283 | 0.268313069 | CSNK2A1,TBC1D20,TCF15 |
| 13 | 61,050,000 | 61,200,000 | 815 | 218 | 0.316350187 | C20ORF18,CSNK2A1,TBC1D20,TRIB3 |
| 13 | 61,125,000 | 61,275,000 | 816 | 221 | 0.893029675 | C20ORF18,C20orf96,NRSN2,TBC1D20,TRIB3,ZCCHC3 |
| 13 | 61,200,000 | 61,350,000 | 817 | 420 | 0.951446115 | C20orf96,DEFB129,NRSN2,ZCCHC3 |
| 13 | 61,275,000 | 61,425,000 | 818 | 708 | 0.941031858 | C20orf96,DEFB129 |
| 13 | 61,350,000 | 61,500,000 | 819 | 793 | 0.864822166 | |
| 13 | 61,425,000 | 61,575,000 | 820 | 1233 | 0.581855322 | DEFB119,DEFB122,DEFB122A,ENSBTAG00000048009 |
| 13 | 61,500,000 | 61,650,000 | 821 | 1235 | 0.78247996 | DEFB119,DEFB122,DEFB122A,DEFB123,DEFB124,HM13,REM1,ENSBTAG00000048009 |
| 13 | 61,575,000 | 61,725,000 | 822 | 839 | 1.082545407 | DEFB122,DEFB123,DEFB124,HM13,REM1 |
| 13 | 61,650,000 | 61,800,000 | 823 | 683 | 1.127715466 | BCL2L1,COX4I2,HM13,ID1 |
| 13 | 61,725,000 | 61,875,000 | 824 | 379 | 1.288987159 | BCL2L1,COX4I2,ID1,TPX2 |
| 13 | 61,800,000 | 61,950,000 | 825 | 336 | 1.320820319 | BCL2L1,DUSP15,FOXS1,MYLK2,TPX2,ENSBTAG00000031214 |
| 13 | 61,875,000 | 62,025,000 | 826 | 480 | 1.254536371 | DUSP15,FOXS1,MYLK2,PDRG1,TPX2,TLL9,ENSBTAG0000031214 |
| 13 | 61,950,000 | 62,100,000 | 827 | 489 | 0.873562953 | CCM2L,DUSP15,PDRG1,TLL9,XKR7 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 62,025,000 | 62,175,000 | 828 | 402 | 0.300362192 | CCM2L,HCK,TM9SF4,XKR7 |
| 13 | 62,100,000 | 62,250,000 | 829 | 459 | 0.480515963 | HCK,PLAGL2,POFUT1,TM9SF4 |
| 13 | 62,175,000 | 62,325,000 | 830 | 512 | 0.639679327 | KIF3B,PLAGL2,POFUT1,TM9SF4 |
| 13 | 62,250,000 | 62,400,000 | 831 | 448 | 0.410656443 | ASXL1,KIF3B,POFUT1 |
| 13 | 62,325,000 | 62,475,000 | 832 | 337 | 0.245709153 | ASXL1,KIF3B,NOL4L |
| 13 | 62,400,000 | 62,550,000 | 833 | 320 | 0.071062759 | ASXL1,NOL4L |
| 13 | 62,475,000 | 62,625,000 | 834 | 502 | 0.339359834 | NOL4L |
| 13 | 62,550,000 | 62,700,000 | 835 | 568 | 0.271832592 | COMMD7 |
| 13 | 62,625,000 | 62,775,000 | 836 | 382 | 0.355823739 | COMMD7,DNMT3B,MAPRE1 |
| 13 | 62,700,000 | 62,850,000 | 837 | 634 | 1.14079188 | DNMT3B,MAPRE1,SPAG4L |
| 13 | 62,775,000 | 62,925,000 | 838 | 1126 | 0.876716613 | BPIFB2,BPIFB3,BPIFB6,SPAG4L |
| 13 | 62,850,000 | 63,000,000 | 839 | 1464 | 0.601844555 | BPIFB2,BPIFB3,BPIFB4,BPIFB6,ENSBTAG00000038453 |
| 13 | 62,925,000 | 63,075,000 | 840 | 1424 | 0.452153657 | BPIFB4,ENSBTAG00000009144,ENSBTAG00000038453 |
| 13 | 63,000,000 | 63,150,000 | 841 | 956 | 0.533522939 | BSP30C,BSP30D,ENSBTAG00000009144 |
| 13 | 63,075,000 | 63,225,000 | 842 | 927 | 0.158133597 | BASE,BPIFA2B,BSP30C,BSP30D,ENSBTAG00000011704 |
| 13 | 63,150,000 | 63,300,000 | 843 | 923 | -0.187822081 | BASE,BPIFA1,BPIFA2B,BPIFB1,C13H20ORF71,ENSBTAG00000011704 |
| 13 | 63,225,000 | 63,375,000 | 844 | 959 | -0.207054806 | BPIFA1,BPIFB1,C13H20ORF71,CDK5RAP1,ENSBTAG00000031354,ENSBTAG00000031361 |
| 13 | 63,300,000 | 63,450,000 | 845 | 1065 | -0.122395613 | BPIFB1,CDK5RAP1,SNTA1,ENSBTAG00000031354,ENSBTAG00000031361 |
| 13 | 63,375,000 | 63,525,000 | 846 | 559 | 0.251093874 | CDK5RAP1,SNTA1 |
| 13 | 63,450,000 | 63,600,000 | 847 | 189 | -0.074424906 | SNTA1 |
| 13 | 63,525,000 | 63,675,000 | 848 | 152 | -1.177675004 | CBFA2T2 |
| 13 | 63,600,000 | 63,750,000 | 849 | 174 | -0.752528362 | ACTL10,C2orf144,CBFA2T2,E2F1,NECAB3,PXMP4 |
| 13 | 63,675,000 | 63,825,000 | 850 | 289 | 0.502576691 | ACTL10,C2orf144,CHMP4B,E2F1,NECAB3,PXMP4,ZNF341 |
| 13 | 63,750,000 | 63,900,000 | 851 | 568 | 0.098462528 | CHMP4B,ZNF341 |
| 13 | 63,825,000 | 63,975,000 | 852 | 580 | -0.322495961 | CHMP4B,RALY |
| 13 | 63,900,000 | 64,050,000 | 853 | 334 | -0.682578852 | RALY |
| 13 | 63,975,000 | 64,125,000 | 854 | 233 | -0.345961937 | EIF2S2,RALY |
| 13 | 64,050,000 | 64,200,000 | 855 | 397 | 0.711859092 | EIF2S2 |
| 13 | 64,125,000 | 64,275,000 | 856 | 466 | 0.968001935 | AHCY,ASIP |
| 13 | 64,200,000 | 64,350,000 | 857 | 305 | 1.433288416 | AHCY,ASIP |
| 13 | 64,275,000 | 64,425,000 | 858 | 347 | 1.438853258 | ITCH,ENSBTAG00000046623 |
| 13 | 64,350,000 | 64,500,000 | 859 | 433 | 1.400436126 | DYNLRB1,ITCH,MAP1LC3A,PIGU,ENSBTAG00000046623 |
| 13 | 64,425,000 | 64,575,000 | 860 | 585 | 0.723205902 | DYNLRB1,ITCH,MAP1LC3A,PIGU |
| 13 | 64,500,000 | 64,650,000 | 861 | 646 | 0.150764219 | NCOA6,PIGU,TP53INP2 |
| 13 | 64,575,000 | 64,725,000 | 862 | 471 | 0.439033863 | NCOA6,PIGU,TP53INP2 |
| 13 | 64,650,000 | 64,800,000 | 863 | 496 | 0.675314822 | ACSS2,GGT7,NCOA6 |
| 13 | 64,725,000 | 64,875,000 | 864 | 523 | 0.664578388 | ACSS2,GGT7,GSS,NCOA6 |
| 13 | 64,800,000 | 64,950,000 | 865 | 354 | 0.689925426 | ACSS2,GSS,MYH7B,TRPC4AP |
| 13 | 64,875,000 | 65,025,000 | 866 | 463 | 0.018556497 | EDEM2,MYH7B,TRPC4AP |
| 13 | 64,950,000 | 65,100,000 | 867 | 693 | 0.428761575 | EDEM2,PROCR,TRPC4AP |
| 13 | 65,025,000 | 65,175,000 | 868 | 708 | 0.55394092 | EDEM2,MMP24,PROCR |
| 13 | 65,100,000 | 65,250,000 | 869 | 793 | 0.693615399 | EIF6,FAM83C,MMP24,PROCR,UQCC |
| 13 | 65,175,000 | 65,325,000 | 870 | 637 | 1.142589926 | EIF6,FAM83C,MMP24,UQCC |
| 13 | 65,250,000 | 65,400,000 | 871 | 397 | 1.063272105 | CEP250,GDF5,UQCC |
| 13 | 65,325,000 | 65,475,000 | 872 | 508 | 0.859737382 | C2orf173,CEP250,ERGIC3,GDF5,UQCC |
| 13 | 65,400,000 | 65,550,000 | 873 | 482 | 0.70438513 | C2orf173,CEP250,CPNE1,ERGIC3,NFS1,RBM12,SPAG4 |
| 13 | 65,475,000 | 65,625,000 | 874 | 321 | 0.382469143 | CPNE1,NFS1,PHF20,RBM12,RBM39,ROMO1,SPAG4 |
| 13 | 65,550,000 | 65,700,000 | 875 | 200 | -0.232645466 | NFS1,PHF20,RBM39,ROMO1 |
| 13 | 65,625,000 | 65,775,000 | 876 | 321 | -0.372209266 | CNBD2,PHF20,SCAND1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 13 | 65,700,000 | 65,850,000 | 877 | 599 | 0.397694528 | CNBD2,PHF20,SCAND1 |
| 13 | 65,775,000 | 65,925,000 | 878 | 811 | 1.107888227 | CNBD2 |
| 13 | 65,850,000 | 66,000,000 | 879 | 794 | 0.923406693 | EPB41L1 |
| 13 | 65,925,000 | 66,075,000 | 880 | 572 | 0.578676443 | AAR2,EPB41L1 |
| 13 | 66,000,000 | 66,150,000 | 881 | 635 | -0.014004599 | AAR2,EPB41L1 |
| 13 | 66,075,000 | 66,225,000 | 882 | 601 | -0.43990578 | DLGAP4 |
| 13 | 66,150,000 | 66,300,000 | 883 | 489 | 0.335486135 | DLGAP4 |
| 13 | 66,225,000 | 66,375,000 | 884 | 490 | 0.286829496 | DLGAP4,MYL9,RIP5,SLA2,TGIF2 |
| 13 | 66,300,000 | 66,450,000 | 885 | 422 | -0.316249803 | MYL9,NDRG3,RIP5,SLA2,TGIF2,TLDC2 |
| 13 | 66,375,000 | 66,525,000 | 886 | 398 | -0.721929045 | NDRG3,SAMHD1,SLA2,TLDC2 |
| 13 | 66,450,000 | 66,600,000 | 887 | 316 | -0.685527613 | NDRG3,RBL1,SAMHD1 |
| 13 | 66,525,000 | 66,675,000 | 888 | 334 | 0.574627518 | DSN1,NDRG3,RBL1,SAMHD1,SOGA1 |
| 13 | 66,600,000 | 66,750,000 | 889 | 372 | 0.534385518 | DSN1,MROH8,RBL1,SOGA1 |
| 13 | 66,675,000 | 66,825,000 | 890 | 439 | 0.538738568 | MROH8,RBL1,RPN2 |
| 13 | 66,750,000 | 66,900,000 | 891 | 550 | 0.357352344 | GHRH,MANBAL,MROH8,RPN2 |
| 13 | 66,825,000 | 66,975,000 | 892 | 534 | -0.017111775 | GHRH,MANBAL,RPN2 |
| 13 | 66,900,000 | 67,050,000 | 893 | 517 | 0.298291868 | MANBAL,SRC |
| 13 | 66,975,000 | 67,125,000 | 894 | 474 | 0.917504226 | BLCAP,NNAT,SRC,ENSBTAG00000045928 |
| 13 | 67,050,000 | 67,200,000 | 895 | 494 | 0.24786193 | BLCAP,NNAT,ENSBTAG00000045928 |
| 13 | 67,125,000 | 67,275,000 | 896 | 789 | -0.485725395 | BLCAP,CTNNBL1 |
| 13 | 67,200,000 | 67,350,000 | 897 | 1004 | -0.136152444 | CTNNBL1 |
| 13 | 67,275,000 | 67,425,000 | 898 | 1007 | -0.079659532 | CTNNBL1 |
| 13 | 67,350,000 | 67,500,000 | 899 | 944 | -0.843485292 | CTNNBL1,VSTM2L |
| 13 | 67,425,000 | 67,575,000 | 900 | 915 | 0.099133712 | CTNNBL1,RPRD1B,TTI1,VSTM2L |
| 13 | 67,500,000 | 67,650,000 | 901 | 943 | 1.01346779 | RPRD1B,TTI1 |
| 13 | 67,575,000 | 67,725,000 | 902 | 978 | 0.199870829 | RPRD1B,TGM2 |
| 13 | 67,650,000 | 67,800,000 | 903 | 738 | -0.364155957 | KIAA1755,TGM2 |
| 13 | 67,725,000 | 67,875,000 | 904 | 955 | -0.852103643 | BPI,KIAA1755,LBP |
| 13 | 67,800,000 | 67,950,000 | 905 | 1301 | -0.970641134 | BPI,LBP |
| 13 | 67,875,000 | 68,025,000 | 906 | 994 | -0.805867594 | LBP,ENSBTAG00000047302 |
| 13 | 67,950,000 | 68,100,000 | 907 | 646 | 0.141266611 | RALGAPB,ENSBTAG00000047302 |
| 13 | 68,025,000 | 68,175,000 | 908 | 770 | -1.794860325 | ADIG,RALGAPB |
| 13 | 68,100,000 | 68,250,000 | 909 | 1152 | -2.601317566 | ACTR5,ADIG,RALGAPB,SLC32A1 |
| 13 | 68,175,000 | 68,325,000 | 910 | 1210 | -1.678931868 | ACTR5,PPP1R16B,SLC32A1 |
| 13 | 68,250,000 | 68,400,000 | 911 | 1279 | -1.891127356 | DHX35,FAM83D,PPP1R16B |
| 13 | 68,325,000 | 68,475,000 | 912 | 1394 | -2.121307881 | DHX35,FAM83D,PPP1R16B |
| 13 | 68,400,000 | 68,550,000 | 913 | 1651 | -1.616238977 | DHX35 |
| 13 | 68,475,000 | 68,625,000 | 914 | 1340 | -0.748781645 | |
| 13 | 68,550,000 | 68,700,000 | 915 | 1067 | 1.123537601 | |
| 13 | 68,625,000 | 68,775,000 | 916 | 1065 | -0.261720905 | |
| 13 | 68,700,000 | 68,850,000 | 917 | 956 | -1.876854167 | |
| 13 | 68,775,000 | 68,925,000 | 918 | 778 | -1.063430775 | |
| 13 | 68,850,000 | 69,000,000 | 919 | 593 | 1.076684043 | |
| 13 | 68,925,000 | 69,075,000 | 920 | 680 | 0.686252466 | |
| 13 | 69,000,000 | 69,150,000 | 921 | 782 | -0.424028098 | |
| 13 | 69,075,000 | 69,225,000 | 922 | 741 | -1.17569812 | |
| 13 | 69,150,000 | 69,300,000 | 923 | 774 | 0.005123418 | |
| 13 | 69,225,000 | 69,375,000 | 924 | 934 | 0.722155853 | |
| 13 | 69,300,000 | 69,450,000 | 925 | 697 | 0.608596498 | |
| 13 | 69,375,000 | 69,525,000 | 926 | 685 | 0.522818356 | |
| 13 | 69,450,000 | 69,600,000 | 927 | 778 | -0.027401989 | |
| 13 | 69,525,000 | 69,675,000 | 928 | 786 | -0.125842816 | |
| 13 | 69,600,000 | 69,750,000 | 929 | 755 | 0.031324274 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 69,675,000 | 69,825,000 | 930 | 516 | 0.031601085 | |
| 13 | 69,750,000 | 69,900,000 | 931 | 673 | -0.199101268 | |
| 13 | 69,825,000 | 69,975,000 | 932 | 680 | -0.322059973 | |
| 13 | 69,900,000 | 70,050,000 | 933 | 303 | -0.673373188 | |
| 13 | 69,975,000 | 70,125,000 | 934 | 198 | -1.366351545 | MAFB |
| 13 | 70,050,000 | 70,200,000 | 935 | 512 | 0.253287642 | MAFB |
| 13 | 70,125,000 | 70,275,000 | 936 | 1164 | 0.449658732 | |
| 13 | 70,200,000 | 70,350,000 | 937 | 932 | 0.155710682 | |
| 13 | 70,275,000 | 70,425,000 | 938 | 284 | -0.576953291 | TOP1 |
| 13 | 70,350,000 | 70,500,000 | 939 | 196 | 0.199501661 | TOP1 |
| 13 | 70,425,000 | 70,575,000 | 940 | 414 | 0.120602768 | PLCG1, TOP1, ZHX3 |
| 13 | 70,500,000 | 70,650,000 | 941 | 695 | 0.545575638 | PLCG1, ZHX3 |
| 13 | 70,575,000 | 70,725,000 | 942 | 641 | 0.851886975 | EMILIN3, LPIN3, ENSBTAG00000045671 |
| 13 | 70,650,000 | 70,800,000 | 943 | 916 | 1.101795951 | CHD6, EMILIN3, LPIN3, ENSBTAG00000045671 |
| 13 | 70,725,000 | 70,875,000 | 944 | 951 | 1.037950204 | CHD6 |
| 13 | 70,800,000 | 70,950,000 | 945 | 632 | 0.262276518 | CHD6 |
| 13 | 70,875,000 | 71,025,000 | 946 | 894 | -0.106317389 | |
| 13 | 70,950,000 | 71,100,000 | 947 | 815 | 0.43770777 | |
| 13 | 71,025,000 | 71,175,000 | 948 | 857 | 0.870409668 | |
| 13 | 71,100,000 | 71,250,000 | 949 | 1115 | 0.981340987 | |
| 13 | 71,175,000 | 71,325,000 | 950 | 879 | 0.783122946 | |
| 13 | 71,250,000 | 71,400,000 | 951 | 669 | 0.197181183 | PTPRT, ENSBTAG00000046673 |
| 13 | 71,325,000 | 71,475,000 | 952 | 760 | 0.551954803 | PTPRT, ENSBTAG00000046673 |
| 13 | 71,400,000 | 71,550,000 | 953 | 1130 | 1.085928094 | PTPRT |
| 13 | 71,475,000 | 71,625,000 | 954 | 1292 | 0.627988232 | PTPRT |
| 13 | 71,550,000 | 71,700,000 | 955 | 892 | 0.007652102 | PTPRT |
| 13 | 71,625,000 | 71,775,000 | 956 | 822 | -0.421756136 | PTPRT |
| 13 | 71,700,000 | 71,850,000 | 957 | 1155 | -0.970920593 | |
| 13 | 71,775,000 | 71,925,000 | 958 | 1010 | -0.588459639 | |
| 13 | 71,850,000 | 72,000,000 | 959 | 868 | -1.132968376 | |
| 13 | 71,925,000 | 72,075,000 | 960 | 1148 | -1.42473723 | |
| 13 | 72,000,000 | 72,150,000 | 961 | 1106 | -0.672670068 | |
| 13 | 72,075,000 | 72,225,000 | 962 | 1023 | -0.32159503 | |
| 13 | 72,150,000 | 72,300,000 | 963 | 1320 | 0.087876792 | |
| 13 | 72,225,000 | 72,375,000 | 964 | 1012 | -0.116749006 | |
| 13 | 72,300,000 | 72,450,000 | 965 | 641 | -0.939068315 | |
| 13 | 72,375,000 | 72,525,000 | 966 | 802 | -1.758429786 | |
| 13 | 72,450,000 | 72,600,000 | 967 | 1142 | -0.335459122 | |
| 13 | 72,525,000 | 72,675,000 | 968 | 1110 | 0.82021679 | |
| 13 | 72,600,000 | 72,750,000 | 969 | 872 | 0.573984777 | |
| 13 | 72,675,000 | 72,825,000 | 970 | 911 | 0.002703879 | SRSF6 |
| 13 | 72,750,000 | 72,900,000 | 971 | 922 | 0.436281443 | IFT52, SGK2, SRSF6 |
| 13 | 72,825,000 | 72,975,000 | 972 | 634 | 0.94712144 | IFT52, MYBL2, SGK2 |
| 13 | 72,900,000 | 73,050,000 | 973 | 410 | 0.189884935 | GTSF1L, IFT52, MYBL2 |
| 13 | 72,975,000 | 73,125,000 | 974 | 628 | 0.79907311 | GTSF1L |
| 13 | 73,050,000 | 73,200,000 | 975 | 646 | 0.595445102 | TOX2 |
| 13 | 73,125,000 | 73,275,000 | 976 | 865 | 0.499011246 | TOX2 |
| 13 | 73,200,000 | 73,350,000 | 977 | 1206 | 0.734544105 | JPH2 |
| 13 | 73,275,000 | 73,425,000 | 978 | 887 | 0.388890631 | JPH2, OSER1 |
| 13 | 73,350,000 | 73,500,000 | 979 | 610 | -0.970048696 | FITM2, GDAP1L1, JPH2, OSER1, R3HDML |
| 13 | 73,425,000 | 73,575,000 | 980 | 666 | -0.866124678 | FITM2, GDAP1L1, HNF4A, R3HDML |
| 13 | 73,500,000 | 73,650,000 | 981 | 735 | -0.824472554 | HNF4A, R3HDML, SERINC3, TTPAL |
| 13 | 73,575,000 | 73,725,000 | 982 | 630 | -0.735011811 | PKIG, SERINC3, TTPAL |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 13 | 73,650,000 | 73,800,000 | 983 | 668 | 0.368813733 | ADA,PKIG,SERINC3 |
| 13 | 73,725,000 | 73,875,000 | 984 | 652 | 0.366864956 | ADA,KCNK15,PKIG,WISP2 |
| 13 | 73,800,000 | 73,950,000 | 985 | 804 | -0.074813513 | KCNK15,RIMS4,WISP2 |
| 13 | 73,875,000 | 74,025,000 | 986 | 1015 | 0.268926491 | RIMS4,YWHAB |
| 13 | 73,950,000 | 74,100,000 | 987 | 720 | 0.331707682 | PABPC1L,STK4,TOMM34,YWHAB |
| 13 | 74,025,000 | 74,175,000 | 988 | 898 | 0.490753058 | PABPC1L,STK4,TOMM34,YWHAB |
| 13 | 74,100,000 | 74,250,000 | 989 | 1272 | 0.622441137 | KCNS1,STK4,WFDC5,ENSBTAG00000020813,ENSBTAG000046375 |
| 13 | 74,175,000 | 74,325,000 | 990 | 1453 | 0.399787698 | KCNS1,PI3,STK4,WFDC5,ENSBTAG00000014329,ENSBTAG00000020813,ENSBTAG00000039446,ENSBTAG00000046375 |
| 13 | 74,250,000 | 74,400,000 | 991 | 976 | 0.446630951 | MATN4,PI3,RBPJL,SDC4,ENSBTAG00000014329,ENSBTAG00000039446 |
| 13 | 74,325,000 | 74,475,000 | 992 | 311 | 0.384952293 | DBNDD2,MATN4,PIGT,RBPJL,SDC4,SYS1,TP53TG5 |
| 13 | 74,400,000 | 74,550,000 | 993 | 966 | 0.325429723 | DBNDD2,PIGT,SDC4,SYS1,TP53TG5,ENSBTAG00000014345,ENSBTAG00000016127,ENSBTAG00000037942,ENSBTAG00000046614 |
| 13 | 74,475,000 | 74,625,000 | 994 | 1604 | 0.848448089 | PIGT,ENSBTAG00000014345,ENSBTAG00000016127,ENSBTAG00000037942,ENSBTAG00000046614 |
| 13 | 74,550,000 | 74,700,000 | 995 | 1403 | 1.09600341 | ENSBTAG00000039693 |
| 13 | 74,625,000 | 74,775,000 | 996 | 1009 | 0.534156079 | ENSBTAG00000018122,ENSBTAG00000039693,ENSBTAG0000046704 |
| 13 | 74,700,000 | 74,850,000 | 997 | 652 | -0.586297774 | TKDP4,ENSBTAG00000018122,ENSBTAG00000038966,ENSBTAG00000046704 |
| 13 | 74,775,000 | 74,925,000 | 998 | 486 | -0.353630904 | TKDP1,TKDP4,ENSBTAG00000038966 |
| 13 | 74,850,000 | 75,000,000 | 999 | 757 | 0.792650279 | PTI,TKDP1,ENSBTAG00000045630 |
| 13 | 74,925,000 | 75,075,000 | 1000 | 1011 | 0.819669298 | PTI,ENSBTAG00000045630 |
| 13 | 75,000,000 | 75,150,000 | 1001 | 797 | 0.635571466 | PTI,SPINLW1,WFDC2,WFDC8,ENSBTAG00000045630 |
| 13 | 75,075,000 | 75,225,000 | 1002 | 748 | 0.842400024 | SPINLW1,WFDC10A,WFDC11,WFDC13,WFDC2,WFDC8,WFDC9,ENSBTAG00000030800,ENSBTAG00000030802 |
| 13 | 75,150,000 | 75,300,000 | 1003 | 949 | -0.483008892 | DNTTIP1,SPINT4,WFDC10A,WFDC11,WFDC13,WFDC3,WFDC9,ENSBTAG00000030800,ENSBTAG00000030802 |
| 13 | 75,225,000 | 75,375,000 | 1004 | 917 | -0.534066176 | ACOT8,CTSA,DNTTIP1,NEURL2,PLTP,SPATA25,SPINT4,TNNC2,UBE2C,WFDC3,ZSWIM1,ZSWIM3 |
| 13 | 75,300,000 | 75,450,000 | 1005 | 858 | 0.341994498 | ACOT8,CTSA,DNTTIP1,NEURL2,PCIF1,PLTP,SPATA25,TNNC2,UBE2C,ZNF335,ZSWIM1,ZSWIM3 |
| 13 | 75,375,000 | 75,525,000 | 1006 | 575 | 0.283591416 | MMP9,NCOA5,PCIF1,PLTP,SLC12A5,ZNF335 |
| 13 | 75,450,000 | 75,600,000 | 1007 | 348 | -1.081496679 | CD40,MMP9,NCOA5,SLC12A5 |
| 13 | 75,525,000 | 75,675,000 | 1008 | 481 | -0.761681983 | CD40,CDH22,NCOA5 |
| 13 | 75,600,000 | 75,750,000 | 1009 | 596 | 0.240020361 | CDH22 |
| 13 | 75,675,000 | 75,825,000 | 1010 | 557 | -0.029931227 | CDH22,ELMO2,SLC35C2 |
| 13 | 75,750,000 | 75,900,000 | 1011 | 557 | -0.053873187 | ELMO2,SLC35C2,ENSBTAG00000027328 |
| 13 | 75,825,000 | 75,975,000 | 1012 | 823 | 0.705097547 | ELMO2,OCSTAMP,ENSBTAG00000009675,ENSBTAG00000027328,ENSBTAG00000047336 |
| 13 | 75,900,000 | 76,050,000 | 1013 | 871 | 0.163811255 | OCSTAMP,SLC13A3,ENSBTAG00000009675,ENSBTAG00000047336 |
| 13 | 75,975,000 | 76,125,000 | 1014 | 912 | -0.862897418 | SLC13A3,SLC2A10,TP53RK |
| 13 | 76,050,000 | 76,200,000 | 1015 | 768 | -0.739393512 | SLC13A3,SLC2A10,TP53RK |
| 13 | 76,125,000 | 76,275,000 | 1016 | 704 | -0.020060874 | |
| 13 | 76,200,000 | 76,350,000 | 1017 | 759 | -0.38168245 | EYA2 |
| 13 | 76,275,000 | 76,425,000 | 1018 | 736 | -0.137361846 | EYA2 |
| 13 | 76,350,000 | 76,500,000 | 1019 | 688 | 0.740687479 | EYA2 |
| 13 | 76,425,000 | 76,575,000 | 1020 | 626 | 0.602350261 | EYA2,ZMYND8 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-----------------------------|
| 13 | 76,500,000 | 76,650,000 | 1021 | 738 | 0.342100273 | ZMYND8 |
| 13 | 76,575,000 | 76,725,000 | 1022 | 864 | 0.396808955 | ZMYND8 |
| 13 | 76,650,000 | 76,800,000 | 1023 | 733 | 0.521796935 | |
| 13 | 76,725,000 | 76,875,000 | 1024 | 663 | -0.399683564 | NCOA3 |
| 13 | 76,800,000 | 76,950,000 | 1025 | 1147 | 0.21832271 | NCOA3,SULF2 |
| 13 | 76,875,000 | 77,025,000 | 1026 | 1289 | 0.817430962 | NCOA3,SULF2 |
| 13 | 76,950,000 | 77,100,000 | 1027 | 1085 | -0.036136748 | SULF2 |
| 13 | 77,025,000 | 77,175,000 | 1028 | 1035 | -0.000142033 | |
| 13 | 77,100,000 | 77,250,000 | 1029 | 993 | 0.559414112 | |
| 13 | 77,175,000 | 77,325,000 | 1030 | 926 | 0.009820299 | |
| 13 | 77,250,000 | 77,400,000 | 1031 | 849 | -0.252651093 | |
| 13 | 77,325,000 | 77,475,000 | 1032 | 1129 | 0.419297296 | |
| 13 | 77,400,000 | 77,550,000 | 1033 | 995 | 0.426105348 | |
| 13 | 77,475,000 | 77,625,000 | 1034 | 554 | -0.41116444 | PREX1 |
| 13 | 77,550,000 | 77,700,000 | 1035 | 572 | -0.576798553 | PREX1 |
| 13 | 77,625,000 | 77,775,000 | 1036 | 519 | -0.272584081 | PREX1 |
| 13 | 77,700,000 | 77,850,000 | 1037 | 462 | -1.031559854 | ARFGEF2 |
| 13 | 77,775,000 | 77,925,000 | 1038 | 671 | -1.009559593 | ARFGEF2,CSE1L |
| 13 | 77,850,000 | 78,000,000 | 1039 | 698 | -0.724464408 | ARFGEF2,CSE1L,STAU1 |
| 13 | 77,925,000 | 78,075,000 | 1040 | 846 | -0.914559252 | CSE1L,DDX27,STAU1 |
| 13 | 78,000,000 | 78,150,000 | 1041 | 1070 | 0.10149659 | DDX27,STAU1,ZNFX1 |
| 13 | 78,075,000 | 78,225,000 | 1042 | 862 | 0.854908789 | KCNB1,ZNFX1 |
| 13 | 78,150,000 | 78,300,000 | 1043 | 785 | -0.002504143 | KCNB1 |
| 13 | 78,225,000 | 78,375,000 | 1044 | 853 | 0.107221717 | KCNB1,PTGIS |
| 13 | 78,300,000 | 78,450,000 | 1045 | 967 | 0.979245089 | KCNB1,PTGIS |
| 13 | 78,375,000 | 78,525,000 | 1046 | 791 | 0.84240979 | B4GALT5 |
| 13 | 78,450,000 | 78,600,000 | 1047 | 561 | -0.148732869 | B4GALT5 |
| 13 | 78,525,000 | 78,675,000 | 1048 | 632 | -0.380518731 | SLC9A8 |
| 13 | 78,600,000 | 78,750,000 | 1049 | 655 | 0.917519783 | RNF114,SLC9A8,SPATA2 |
| 13 | 78,675,000 | 78,825,000 | 1050 | 529 | 1.100639178 | RNF114,SLC9A8,SNAI1,SPATA2 |
| 13 | 78,750,000 | 78,900,000 | 1051 | 637 | -0.44142162 | SNAI1,TMEM189,UBE2V1 |
| 13 | 78,825,000 | 78,975,000 | 1052 | 716 | -0.619247621 | TMEM189,UBE2V1 |
| 13 | 78,900,000 | 79,050,000 | 1053 | 646 | 0.898094234 | TMEM189 |
| 13 | 78,975,000 | 79,125,000 | 1054 | 696 | 1.216317722 | |
| 13 | 79,050,000 | 79,200,000 | 1055 | 497 | 1.053732542 | |
| 13 | 79,125,000 | 79,275,000 | 1056 | 443 | 0.803168551 | PTPN1 |
| 13 | 79,200,000 | 79,350,000 | 1057 | 392 | 0.779334306 | FAM65C,PTPN1 |
| 13 | 79,275,000 | 79,425,000 | 1058 | 438 | 0.432984325 | FAM65C,PTPN1 |
| 13 | 79,350,000 | 79,500,000 | 1059 | 657 | 0.303848335 | BCAS4,FAM65C,PAR6B |
| 13 | 79,425,000 | 79,575,000 | 1060 | 553 | 0.241396781 | ADNP,BCAS4,PAR6B |
| 13 | 79,500,000 | 79,650,000 | 1061 | 647 | -0.131736555 | ADNP,BCAS4,DPM1,KCNG1,MOCS3 |
| 13 | 79,575,000 | 79,725,000 | 1062 | 627 | -0.184023237 | DPM1,KCNG1,MOCS3 |
| 13 | 79,650,000 | 79,800,000 | 1063 | 704 | 0.465990021 | KCNG1 |
| 13 | 79,725,000 | 79,875,000 | 1064 | 1142 | -0.173886408 | |
| 13 | 79,800,000 | 79,950,000 | 1065 | 1009 | -0.453250702 | |
| 13 | 79,875,000 | 80,025,000 | 1066 | 669 | 0.459200091 | NFATC2 |
| 13 | 79,950,000 | 80,100,000 | 1067 | 573 | 0.68869027 | NFATC2 |
| 13 | 80,025,000 | 80,175,000 | 1068 | 600 | -1.157986091 | ATP9A,NFATC2 |
| 13 | 80,100,000 | 80,250,000 | 1069 | 1037 | -1.337510777 | ATP9A,NFATC2 |
| 13 | 80,175,000 | 80,325,000 | 1070 | 1066 | -0.351029374 | ATP9A,SALL4 |
| 13 | 80,250,000 | 80,400,000 | 1071 | 764 | 0.007920107 | ATP9A,SALL4 |
| 13 | 80,325,000 | 80,475,000 | 1072 | 736 | 0.455913654 | ENSBTAG00000030564 |
| 13 | 80,400,000 | 80,550,000 | 1073 | 907 | 0.732319115 | ENSBTAG00000030564 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--------------------|
| 13 | 80,475,000 | 80,625,000 | 1074 | 1107 | 0.812154067 | ZFP64 |
| 13 | 80,550,000 | 80,700,000 | 1075 | 1221 | 0.843660182 | ZFP64 |
| 13 | 80,625,000 | 80,775,000 | 1076 | 1375 | 0.507153355 | |
| 13 | 80,700,000 | 80,850,000 | 1077 | 1124 | 0.056463882 | |
| 13 | 80,775,000 | 80,925,000 | 1078 | 937 | -0.010550123 | |
| 13 | 80,850,000 | 81,000,000 | 1079 | 1345 | 0.468376826 | |
| 13 | 80,925,000 | 81,075,000 | 1080 | 1600 | 0.530068439 | |
| 13 | 81,000,000 | 81,150,000 | 1081 | 1503 | 0.1317559 | |
| 13 | 81,075,000 | 81,225,000 | 1082 | 1341 | -0.791760253 | |
| 13 | 81,150,000 | 81,300,000 | 1083 | 908 | -0.493951507 | |
| 13 | 81,225,000 | 81,375,000 | 1084 | 564 | 0.052775936 | |
| 13 | 81,300,000 | 81,450,000 | 1085 | 573 | -0.437616159 | |
| 13 | 81,375,000 | 81,525,000 | 1086 | 666 | -0.635769536 | |
| 13 | 81,450,000 | 81,600,000 | 1087 | 742 | -0.118280247 | |
| 13 | 81,525,000 | 81,675,000 | 1088 | 619 | 0.266883839 | TSHZ2 |
| 13 | 81,600,000 | 81,750,000 | 1089 | 448 | 0.441111747 | TSHZ2 |
| 13 | 81,675,000 | 81,825,000 | 1090 | 570 | -0.881158403 | |
| 13 | 81,750,000 | 81,900,000 | 1091 | 564 | -0.874753963 | ZNF217 |
| 13 | 81,825,000 | 81,975,000 | 1092 | 488 | 0.418151336 | ZNF217 |
| 13 | 81,900,000 | 82,050,000 | 1093 | 525 | 0.721194314 | |
| 13 | 81,975,000 | 82,125,000 | 1094 | 572 | 0.426099754 | |
| 13 | 82,050,000 | 82,200,000 | 1095 | 687 | -0.930190397 | BCAS1 |
| 13 | 82,125,000 | 82,275,000 | 1096 | 640 | -1.139958988 | BCAS1 |
| 13 | 82,200,000 | 82,350,000 | 1097 | 496 | -0.399045511 | BCAS1 |
| 13 | 82,275,000 | 82,425,000 | 1098 | 561 | -0.307396135 | CYP24A1,PFDN4 |
| 13 | 82,350,000 | 82,500,000 | 1099 | 847 | -0.567922691 | CYP24A1,PFDN4 |
| 13 | 82,425,000 | 82,575,000 | 1100 | 997 | -0.275410282 | |
| 13 | 82,500,000 | 82,650,000 | 1101 | 766 | 0.094377986 | |
| 13 | 82,575,000 | 82,725,000 | 1102 | 629 | -0.299260138 | DOK5 |
| 13 | 82,650,000 | 82,800,000 | 1103 | 1016 | 0.030944507 | DOK5 |
| 13 | 82,725,000 | 82,875,000 | 1104 | 1427 | 0.491901959 | DOK5 |
| 13 | 82,800,000 | 82,950,000 | 1105 | 1227 | 0.573626632 | DOK5 |
| 13 | 82,875,000 | 83,025,000 | 1106 | 952 | 0.245907874 | |
| 13 | 82,950,000 | 83,100,000 | 1107 | 910 | 0.205275848 | |
| 13 | 83,025,000 | 83,175,000 | 1108 | 1382 | 0.423556174 | |
| 13 | 83,100,000 | 83,250,000 | 1109 | 1553 | 0.7587888 | |
| 13 | 83,175,000 | 83,325,000 | 1110 | 1505 | 0.682312353 | |
| 13 | 83,250,000 | 83,400,000 | 1111 | 1744 | 0.461752322 | |
| 13 | 83,325,000 | 83,475,000 | 1112 | 1262 | 0.479469658 | |
| 13 | 83,400,000 | 83,550,000 | 1113 | 898 | 0.91687716 | |
| 13 | 83,475,000 | 83,625,000 | 1114 | 1302 | 0.667333297 | |
| 13 | 83,550,000 | 83,700,000 | 1115 | 1252 | 0.266003587 | |
| 13 | 83,625,000 | 83,775,000 | 1116 | 998 | 0.121045374 | |
| 13 | 83,700,000 | 83,850,000 | 1117 | 1030 | 0.183818269 | |
| 13 | 83,775,000 | 83,925,000 | 1118 | 1187 | 0.059277162 | |
| 13 | 83,850,000 | 84,000,000 | 1119 | 1178 | -0.252461967 | |
| 13 | 83,925,000 | 84,075,000 | 1120 | 935 | -0.040244202 | CBLN4 |
| 13 | 84,000,000 | 84,150,000 | 1121 | 778 | 0.455318298 | CBLN4 |
| 13 | 84,075,000 | 84,225,000 | 1122 | 635 | 0.48648011 | |
| 13 | 84,150,000 | 84,240,350 | 1123 | 438 | 0.644070105 | ENSBTAG00000038057 |
| 14 | 0 | 150,000 | 1 | 131 | -0.999905257 | |
| 14 | 75,000 | 225,000 | 2 | 143 | -2.231901151 | |
| 14 | 150,000 | 300,000 | 3 | 89 | -2.700162703 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 14 | 225,000 | 375,000 | 4 | 146 | -0.011487379 | ENSBTAG00000034261 |
| 14 | 300,000 | 450,000 | 5 | 113 | -1.438866885 | ENSBTAG00000034261 |
| 14 | 375,000 | 525,000 | 6 | 62 | -1.376736797 | |
| 14 | 450,000 | 600,000 | 7 | 184 | -1.269173504 | |
| 14 | 525,000 | 675,000 | 8 | 217 | -2.048500547 | |
| 14 | 600,000 | 750,000 | 9 | 165 | -2.357994441 | ENSBTAG00000034176 |
| 14 | 675,000 | 825,000 | 10 | 88 | -2.618527865 | ENSBTAG00000034176 |
| 14 | 750,000 | 900,000 | 11 | 51 | -2.79895101 | |
| 14 | 825,000 | 975,000 | 12 | 90 | -1.881424482 | |
| 14 | 900,000 | 1,050,000 | 13 | 55 | -0.53843912 | |
| 14 | 975,000 | 1,125,000 | 14 | 103 | -0.568057429 | |
| 14 | 1,050,000 | 1,200,000 | 15 | 289 | 0.052428619 | ENSBTAG00000036098,ENSBTAG00000048001 |
| 14 | 1,125,000 | 1,275,000 | 16 | 544 | 0.009820119 | TMEM60,ENSBTAG00000036098,ENSBTAG00000048001 |
| 14 | 1,200,000 | 1,350,000 | 17 | 998 | -0.375621249 | TMEM60,ENSBTAG00000046435,ENSBTAG00000046932 |
| 14 | 1,275,000 | 1,425,000 | 18 | 1139 | 0.135072911 | ENSBTAG00000046435,ENSBTAG00000046932 |
| 14 | 1,350,000 | 1,500,000 | 19 | 1235 | 0.154718086 | C8orf33,ZNF34,ENSBTAG00000016203 |
| 14 | 1,425,000 | 1,575,000 | 20 | 1051 | 0.020435983 | ARHGAP39,C8orf33,COMMD5,RPL8,ZNF34,ZNF7,ENSBTAG00000016203 |
| 14 | 1,500,000 | 1,650,000 | 21 | 434 | 0.923755958 | ARHGAP39,C14H8orf82,COMMD5,GPT,LRRC14,LRRC24,MFSD3,PPP1R16A,RECQL4,RPL8,ZNF34,ZNF7 |
| 14 | 1,575,000 | 1,725,000 | 22 | 285 | 0.570505659 | ARHGAP39,C14H8orf82,CYHR1,FOXH1,GPT,KIFC2,LRRC14,LRRC24,MFSD3,PPP1R16A,RECQL4,SLC39A4,TONSL,VPS28 |
| 14 | 1,650,000 | 1,800,000 | 23 | 315 | 0.791496045 | ADCK5,CPSF1,CYHR1,DGAT1,FBXL6,FOXH1,GPR172B,KIFC2,SCRT1,SLC39A4,TMEM249,TONSL,VPS28 |
| 14 | 1,725,000 | 1,875,000 | 24 | 434 | 1.067058672 | ADCK5,BOP1,CPSF1,DGAT1,FBXL6,GPR172B,HSF1,MROH1,SCRT1,SCX,TMEM249 |
| 14 | 1,800,000 | 1,950,000 | 25 | 513 | 1.186156173 | BOP1,CYC1,DGAT1,EXOSC4,GPAA1,HGH1,HSF1,KIAA1875,MAF1,MROH1,SCX,SHARPIN,ENSBTAG00000039978 |
| 14 | 1,875,000 | 2,025,000 | 26 | 540 | 1.101459512 | CYC1,EXOSC4,GPAA1,GRINA,HGH1,KIAA1875,MAF1,MROH1,OPLAH,PARP10,SHARPIN,SPATC1,ENSBTAG00000015040,ENSBTAG00000039978 |
| 14 | 1,950,000 | 2,100,000 | 27 | 474 | 0.845866041 | GRINA,OPLAH,PARP10,PLEC,SPATC1,ENSBTAG00000015040 |
| 14 | 2,025,000 | 2,175,000 | 28 | 522 | 0.694247663 | NRBP2,PARP10,PLEC,PUF60 |
| 14 | 2,100,000 | 2,250,000 | 29 | 613 | 0.197373748 | FAM83H,MAPK15,NRBP2,PUF60,SCRIB |
| 14 | 2,175,000 | 2,325,000 | 30 | 543 | -0.333157163 | CCDC166,EEF1D,FAM83H,MAPK15,PUF60,PYCRL,SCRIB,TIGD5,TSTA3,ZNF623,ENSBTAG00000046866 |
| 14 | 2,250,000 | 2,400,000 | 31 | 642 | -0.864099746 | CCDC166,EEF1D,GSDMD,MROH6,NAPRT,PYCRL,TIGD5,TSTA3,ZC3H3,ZNF623,ENSBTAG00000046866 |
| 14 | 2,325,000 | 2,475,000 | 32 | 772 | 0.191031931 | EEF1D,GSDMD,MAFA,MROH6,NAPRT,RHPN1,ZC3H3 |
| 14 | 2,400,000 | 2,550,000 | 33 | 1031 | 0.72258817 | MAFA,RHPN1,ZC3H3,ZNF16 |
| 14 | 2,475,000 | 2,625,000 | 34 | 1138 | 0.193284659 | LY6E,LY6H,ZNF16 |
| 14 | 2,550,000 | 2,700,000 | 35 | 1154 | -0.056299868 | LY6E,LY6H |
| 14 | 2,625,000 | 2,775,000 | 36 | 1404 | 0.405873456 | GML,LY6E,LY6K,ENSBTAG0000004596,ENSBTAG00000037824 |
| 14 | 2,700,000 | 2,850,000 | 37 | 1369 | 0.773721997 | GML,LY6D,LY6K,LYNX1,LYPD2,SLURP1,THEM6,ENSBTAG0000004596,ENSBTAG00000037824 |
| 14 | 2,775,000 | 2,925,000 | 38 | 1038 | 0.880758779 | ARC,LY6D,LYNX1,LYPD2,PSCA,SLURP1,THEM6,ENSBTAG000026340,ENSBTAG00000037824 |
| 14 | 2,850,000 | 3,000,000 | 39 | 733 | 0.363923257 | ARC,BAI1,PSCA,ENSBTAG00000026340 |
| 14 | 2,925,000 | 3,075,000 | 40 | 697 | -0.634926836 | BAI1,TSNARE1,ENSBTAG00000026340 |
| 14 | 3,000,000 | 3,150,000 | 41 | 902 | -0.021486962 | BAI1,TSNARE1 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------------------|
| 14 | 3,075,000 | 3,225,000 | 42 | 1058 | -0.306345333 | TSNARE1 |
| 14 | 3,150,000 | 3,300,000 | 43 | 1286 | -0.29429699 | TSNARE1 |
| 14 | 3,225,000 | 3,375,000 | 44 | 1299 | 0.123653536 | |
| 14 | 3,300,000 | 3,450,000 | 45 | 1317 | -1.100918251 | |
| 14 | 3,375,000 | 3,525,000 | 46 | 1209 | -3.419092514 | |
| 14 | 3,450,000 | 3,600,000 | 47 | 749 | -3.969332911 | MROH5,PTP4A3 |
| 14 | 3,525,000 | 3,675,000 | 48 | 650 | 0.137964207 | GPR20,MROH5,PTP4A3 |
| 14 | 3,600,000 | 3,750,000 | 49 | 524 | -0.059325394 | GPR20,SLC45A4 |
| 14 | 3,675,000 | 3,825,000 | 50 | 376 | -0.437411586 | DENND3,SLC45A4 |
| 14 | 3,750,000 | 3,900,000 | 51 | 483 | -0.452325609 | DENND3,PTK2 |
| 14 | 3,825,000 | 3,975,000 | 52 | 512 | -2.338835389 | PTK2 |
| 14 | 3,900,000 | 4,050,000 | 53 | 490 | -2.512519472 | PTK2 |
| 14 | 3,975,000 | 4,125,000 | 54 | 577 | -1.467318531 | EIF2C2,PTK2 |
| 14 | 4,050,000 | 4,200,000 | 55 | 546 | -1.300733005 | CHRAC1,EIF2C2,PTK2 |
| 14 | 4,125,000 | 4,275,000 | 56 | 780 | -0.131413512 | CHRAC1,EIF2C2,TRAPPC9 |
| 14 | 4,200,000 | 4,350,000 | 57 | 1200 | -0.171146398 | TRAPPC9 |
| 14 | 4,275,000 | 4,425,000 | 58 | 1304 | -0.017481463 | TRAPPC9 |
| 14 | 4,350,000 | 4,500,000 | 59 | 1337 | 0.368391911 | TRAPPC9 |
| 14 | 4,425,000 | 4,575,000 | 60 | 1122 | -0.094363181 | TRAPPC9 |
| 14 | 4,500,000 | 4,650,000 | 61 | 672 | -1.791016216 | KCNK9,TRAPPC9 |
| 14 | 4,575,000 | 4,725,000 | 62 | 606 | -2.435440721 | KCNK9,TRAPPC9 |
| 14 | 4,650,000 | 4,800,000 | 63 | 766 | -1.127540475 | KCNK9 |
| 14 | 4,725,000 | 4,875,000 | 64 | 843 | -0.113730315 | KCNK9 |
| 14 | 4,800,000 | 4,950,000 | 65 | 761 | -1.293223877 | |
| 14 | 4,875,000 | 5,025,000 | 66 | 999 | -4.005316259 | |
| 14 | 4,950,000 | 5,100,000 | 67 | 1421 | -3.791210391 | |
| 14 | 5,025,000 | 5,175,000 | 68 | 1195 | -1.688389994 | COL22A1 |
| 14 | 5,100,000 | 5,250,000 | 69 | 1187 | 0.029831023 | COL22A1 |
| 14 | 5,175,000 | 5,325,000 | 70 | 1818 | 0.498009322 | COL22A1 |
| 14 | 5,250,000 | 5,400,000 | 71 | 1668 | 0.271456116 | COL22A1 |
| 14 | 5,325,000 | 5,475,000 | 72 | 1261 | -0.494947285 | COL22A1,ENSBTAG00000018218 |
| 14 | 5,400,000 | 5,550,000 | 73 | 1306 | -0.689098637 | ENSBTAG00000018218 |
| 14 | 5,475,000 | 5,625,000 | 74 | 1261 | -1.762723639 | ENSBTAG00000018218 |
| 14 | 5,550,000 | 5,700,000 | 75 | 1241 | -1.249703502 | ENSBTAG00000018218,ENSBTAG00000048078 |
| 14 | 5,625,000 | 5,775,000 | 76 | 1253 | -0.097775006 | ENSBTAG00000018218,ENSBTAG00000048078 |
| 14 | 5,700,000 | 5,850,000 | 77 | 1103 | 0.47287279 | |
| 14 | 5,775,000 | 5,925,000 | 78 | 753 | 0.266623793 | |
| 14 | 5,850,000 | 6,000,000 | 79 | 880 | -0.516349806 | |
| 14 | 5,925,000 | 6,075,000 | 80 | 1119 | -0.476148586 | |
| 14 | 6,000,000 | 6,150,000 | 81 | 1403 | 0.031834054 | |
| 14 | 6,075,000 | 6,225,000 | 82 | 1205 | 0.057071621 | |
| 14 | 6,150,000 | 6,300,000 | 83 | 913 | 0.124926218 | |
| 14 | 6,225,000 | 6,375,000 | 84 | 933 | 0.286365803 | |
| 14 | 6,300,000 | 6,450,000 | 85 | 896 | 0.274710693 | |
| 14 | 6,375,000 | 6,525,000 | 86 | 1166 | 0.351377191 | |
| 14 | 6,450,000 | 6,600,000 | 87 | 1172 | 0.594724471 | |
| 14 | 6,525,000 | 6,675,000 | 88 | 1156 | 0.342164347 | |
| 14 | 6,600,000 | 6,750,000 | 89 | 1103 | 0.56191191 | |
| 14 | 6,675,000 | 6,825,000 | 90 | 1108 | -0.342461596 | |
| 14 | 6,750,000 | 6,900,000 | 91 | 1156 | -0.876563852 | |
| 14 | 6,825,000 | 6,975,000 | 92 | 924 | -0.560921391 | |
| 14 | 6,900,000 | 7,050,000 | 93 | 701 | -0.234661229 | |
| 14 | 6,975,000 | 7,125,000 | 94 | 962 | 0.665063825 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 14 | 7,050,000 | 7,200,000 | 95 | 1320 | 0.796231693 | |
| 14 | 7,125,000 | 7,275,000 | 96 | 1122 | 0.734026023 | |
| 14 | 7,200,000 | 7,350,000 | 97 | 904 | 0.233517509 | |
| 14 | 7,275,000 | 7,425,000 | 98 | 926 | 0.359355272 | |
| 14 | 7,350,000 | 7,500,000 | 99 | 760 | 0.691427958 | KHDRBS3 |
| 14 | 7,425,000 | 7,575,000 | 100 | 523 | 0.558552652 | KHDRBS3 |
| 14 | 7,500,000 | 7,650,000 | 101 | 613 | 0.377883646 | KHDRBS3 |
| 14 | 7,575,000 | 7,725,000 | 102 | 816 | 0.429504159 | KHDRBS3 |
| 14 | 7,650,000 | 7,800,000 | 103 | 771 | 0.298437979 | |
| 14 | 7,725,000 | 7,875,000 | 104 | 1035 | -0.397896968 | |
| 14 | 7,800,000 | 7,950,000 | 105 | 1409 | -0.817149414 | |
| 14 | 7,875,000 | 8,025,000 | 106 | 1215 | -1.210927092 | |
| 14 | 7,950,000 | 8,100,000 | 107 | 689 | -0.758945299 | |
| 14 | 8,025,000 | 8,175,000 | 108 | 535 | 0.093103615 | ZFAT |
| 14 | 8,100,000 | 8,250,000 | 109 | 698 | 0.015304964 | ZFAT |
| 14 | 8,175,000 | 8,325,000 | 110 | 819 | 0.388601543 | ZFAT |
| 14 | 8,250,000 | 8,400,000 | 111 | 805 | 0.671717175 | ZFAT |
| 14 | 8,325,000 | 8,475,000 | 112 | 785 | -0.420163129 | |
| 14 | 8,400,000 | 8,550,000 | 113 | 716 | -0.978164993 | |
| 14 | 8,475,000 | 8,625,000 | 114 | 628 | 0.117853749 | |
| 14 | 8,550,000 | 8,700,000 | 115 | 573 | 0.262743177 | |
| 14 | 8,625,000 | 8,775,000 | 116 | 304 | 0.675474904 | |
| 14 | 8,700,000 | 8,850,000 | 117 | 631 | 0.328001428 | |
| 14 | 8,775,000 | 8,925,000 | 118 | 811 | 0.399862195 | |
| 14 | 8,850,000 | 9,000,000 | 119 | 969 | 0.868823909 | ST3GAL1 |
| 14 | 8,925,000 | 9,075,000 | 120 | 1110 | -0.146345177 | ST3GAL1 |
| 14 | 9,000,000 | 9,150,000 | 121 | 910 | -0.751515836 | NDRG1 |
| 14 | 9,075,000 | 9,225,000 | 122 | 728 | 0.200234298 | NDRG1,WISP1 |
| 14 | 9,150,000 | 9,300,000 | 123 | 692 | -0.082849103 | NDRG1,TG,WISP1 |
| 14 | 9,225,000 | 9,375,000 | 124 | 1000 | 0.410199946 | SLA,TG |
| 14 | 9,300,000 | 9,450,000 | 125 | 719 | 0.76260904 | SLA,TG |
| 14 | 9,375,000 | 9,525,000 | 126 | 502 | 0.691597215 | TG |
| 14 | 9,450,000 | 9,600,000 | 127 | 576 | 0.772855591 | PHF20L1,TG |
| 14 | 9,525,000 | 9,675,000 | 128 | 795 | 0.625426332 | LRRC6,PHF20L1,TMEM71 |
| 14 | 9,600,000 | 9,750,000 | 129 | 1179 | -0.965322355 | LRRC6,TMEM71 |
| 14 | 9,675,000 | 9,825,000 | 130 | 1285 | -0.573735935 | KCNQ3,LRRC6 |
| 14 | 9,750,000 | 9,900,000 | 131 | 1327 | 1.095103087 | KCNQ3 |
| 14 | 9,825,000 | 9,975,000 | 132 | 1221 | 0.972824014 | KCNQ3 |
| 14 | 9,900,000 | 10,050,000 | 133 | 820 | 0.861499149 | KCNQ3 |
| 14 | 9,975,000 | 10,125,000 | 134 | 411 | 1.033580007 | HHLA1,KCNQ3 |
| 14 | 10,050,000 | 10,200,000 | 135 | 531 | 0.354521107 | EFR3A,HHLA1,KCNQ3,ENSBTAG00000007731,ENSBTAG000007736 |
| 14 | 10,125,000 | 10,275,000 | 136 | 694 | -0.128159921 | EFR3A,HHLA1,ENSBTAG00000007731,ENSBTAG0000000736 |
| 14 | 10,200,000 | 10,350,000 | 137 | 713 | 0.475889159 | EFR3A,ENSBTAG00000007731 |
| 14 | 10,275,000 | 10,425,000 | 138 | 896 | 0.700234891 | |
| 14 | 10,350,000 | 10,500,000 | 139 | 942 | 0.454721183 | |
| 14 | 10,425,000 | 10,575,000 | 140 | 913 | 0.333027744 | |
| 14 | 10,500,000 | 10,650,000 | 141 | 756 | -0.046977187 | |
| 14 | 10,575,000 | 10,725,000 | 142 | 611 | -0.17728259 | |
| 14 | 10,650,000 | 10,800,000 | 143 | 770 | 0.863629252 | |
| 14 | 10,725,000 | 10,875,000 | 144 | 944 | 1.05340338 | ADCY8 |
| 14 | 10,800,000 | 10,950,000 | 145 | 973 | 0.635342801 | ADCY8 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------|
| 14 | 10,875,000 | 11,025,000 | 146 | 1001 | 0.667351874 | ADCY8 |
| 14 | 10,950,000 | 11,100,000 | 147 | 827 | 0.799298091 | ADCY8 |
| 14 | 11,025,000 | 11,175,000 | 148 | 624 | 0.329100323 | ADCY8 |
| 14 | 11,100,000 | 11,250,000 | 149 | 719 | 0.641360811 | |
| 14 | 11,175,000 | 11,325,000 | 150 | 755 | 0.454805826 | |
| 14 | 11,250,000 | 11,400,000 | 151 | 968 | -0.125917191 | ASAP1 |
| 14 | 11,325,000 | 11,475,000 | 152 | 986 | -0.511711489 | ASAP1 |
| 14 | 11,400,000 | 11,550,000 | 153 | 962 | -1.325410136 | ASAP1 |
| 14 | 11,475,000 | 11,625,000 | 154 | 1306 | -2.774073569 | ASAP1 |
| 14 | 11,550,000 | 11,700,000 | 155 | 1403 | -2.177443444 | ASAP1 |
| 14 | 11,625,000 | 11,775,000 | 156 | 981 | -2.62132106 | ASAP1 |
| 14 | 11,700,000 | 11,850,000 | 157 | 476 | -4.120790852 | FAM49B |
| 14 | 11,775,000 | 11,925,000 | 158 | 614 | -4.925640521 | FAM49B,GSDMC |
| 14 | 11,850,000 | 12,000,000 | 159 | 962 | -4.258602977 | FAM49B,GSDMC |
| 14 | 11,925,000 | 12,075,000 | 160 | 1070 | -5.122224365 | |
| 14 | 12,000,000 | 12,150,000 | 161 | 744 | -6.183944471 | |
| 14 | 12,075,000 | 12,225,000 | 162 | 584 | -2.524765573 | |
| 14 | 12,150,000 | 12,300,000 | 163 | 806 | -0.289158196 | |
| 14 | 12,225,000 | 12,375,000 | 164 | 872 | -0.710829091 | |
| 14 | 12,300,000 | 12,450,000 | 165 | 839 | -0.011131883 | |
| 14 | 12,375,000 | 12,525,000 | 166 | 796 | 1.106564719 | |
| 14 | 12,450,000 | 12,600,000 | 167 | 666 | 0.990937017 | |
| 14 | 12,525,000 | 12,675,000 | 168 | 614 | 0.212780066 | |
| 14 | 12,600,000 | 12,750,000 | 169 | 748 | -0.97277491 | |
| 14 | 12,675,000 | 12,825,000 | 170 | 888 | 0.059700833 | |
| 14 | 12,750,000 | 12,900,000 | 171 | 729 | 0.716357423 | |
| 14 | 12,825,000 | 12,975,000 | 172 | 424 | 0.636010586 | |
| 14 | 12,900,000 | 13,050,000 | 173 | 438 | 0.752378887 | |
| 14 | 12,975,000 | 13,125,000 | 174 | 530 | 0.892265887 | |
| 14 | 13,050,000 | 13,200,000 | 175 | 643 | -0.521228302 | |
| 14 | 13,125,000 | 13,275,000 | 176 | 759 | -0.981433553 | |
| 14 | 13,200,000 | 13,350,000 | 177 | 648 | -0.356473316 | |
| 14 | 13,275,000 | 13,425,000 | 178 | 405 | -0.629608305 | |
| 14 | 13,350,000 | 13,500,000 | 179 | 445 | 0.727791125 | |
| 14 | 13,425,000 | 13,575,000 | 180 | 660 | 1.251211517 | |
| 14 | 13,500,000 | 13,650,000 | 181 | 726 | 1.227289893 | |
| 14 | 13,575,000 | 13,725,000 | 182 | 517 | 1.054011686 | |
| 14 | 13,650,000 | 13,800,000 | 183 | 336 | 0.308069039 | MYC |
| 14 | 13,725,000 | 13,875,000 | 184 | 469 | 0.300706582 | MYC |
| 14 | 13,800,000 | 13,950,000 | 185 | 685 | 0.347903331 | |
| 14 | 13,875,000 | 14,025,000 | 186 | 729 | 0.379186288 | |
| 14 | 13,950,000 | 14,100,000 | 187 | 725 | 0.792827332 | |
| 14 | 14,025,000 | 14,175,000 | 188 | 801 | 0.710169701 | |
| 14 | 14,100,000 | 14,250,000 | 189 | 878 | -0.359950832 | |
| 14 | 14,175,000 | 14,325,000 | 190 | 718 | -0.801284746 | |
| 14 | 14,250,000 | 14,400,000 | 191 | 750 | 0.064604608 | |
| 14 | 14,325,000 | 14,475,000 | 192 | 1089 | 0.240964924 | |
| 14 | 14,400,000 | 14,550,000 | 193 | 823 | -0.0698657 | |
| 14 | 14,475,000 | 14,625,000 | 194 | 343 | -0.000215802 | |
| 14 | 14,550,000 | 14,700,000 | 195 | 255 | -0.23148442 | |
| 14 | 14,625,000 | 14,775,000 | 196 | 421 | 0.195620496 | |
| 14 | 14,700,000 | 14,850,000 | 197 | 337 | 0.574070772 | |
| 14 | 14,775,000 | 14,925,000 | 198 | 281 | 0.376316033 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 14 | 14,850,000 | 15,000,000 | 199 | 693 | -0.578484262 | |
| 14 | 14,925,000 | 15,075,000 | 200 | 809 | 0.033134121 | |
| 14 | 15,000,000 | 15,150,000 | 201 | 568 | 0.226480757 | |
| 14 | 15,075,000 | 15,225,000 | 202 | 334 | -0.487455274 | |
| 14 | 15,150,000 | 15,300,000 | 203 | 402 | 0.061168004 | |
| 14 | 15,225,000 | 15,375,000 | 204 | 587 | -0.089684105 | |
| 14 | 15,300,000 | 15,450,000 | 205 | 566 | -0.132602415 | |
| 14 | 15,375,000 | 15,525,000 | 206 | 779 | 0.500104503 | FAM84B |
| 14 | 15,450,000 | 15,600,000 | 207 | 1086 | 0.382499363 | FAM84B |
| 14 | 15,525,000 | 15,675,000 | 208 | 1213 | -0.088571307 | |
| 14 | 15,600,000 | 15,750,000 | 209 | 1203 | -0.122218804 | |
| 14 | 15,675,000 | 15,825,000 | 210 | 959 | 0.348793674 | |
| 14 | 15,750,000 | 15,900,000 | 211 | 963 | 0.696638046 | |
| 14 | 15,825,000 | 15,975,000 | 212 | 1271 | -0.61867879 | |
| 14 | 15,900,000 | 16,050,000 | 213 | 1195 | -0.967169435 | |
| 14 | 15,975,000 | 16,125,000 | 214 | 1154 | 0.046000679 | |
| 14 | 16,050,000 | 16,200,000 | 215 | 1053 | 0.015898562 | |
| 14 | 16,125,000 | 16,275,000 | 216 | 713 | 0.21343173 | |
| 14 | 16,200,000 | 16,350,000 | 217 | 488 | 0.720966851 | |
| 14 | 16,275,000 | 16,425,000 | 218 | 392 | 0.487621687 | NSMCE2,TRIB1 |
| 14 | 16,350,000 | 16,500,000 | 219 | 399 | 0.480856415 | NSMCE2,TRIB1 |
| 14 | 16,425,000 | 16,575,000 | 220 | 348 | -0.221733661 | NSMCE2 |
| 14 | 16,500,000 | 16,650,000 | 221 | 357 | -0.025690781 | NSMCE2 |
| 14 | 16,575,000 | 16,725,000 | 222 | 429 | 0.829751109 | KIAA0196,NSMCE2,SQL |
| 14 | 16,650,000 | 16,800,000 | 223 | 472 | 1.012526405 | KIAA0196,SQL,ZNF572 |
| 14 | 16,725,000 | 16,875,000 | 224 | 724 | 1.155987038 | SQL,ZNF572 |
| 14 | 16,800,000 | 16,950,000 | 225 | 947 | 0.791540145 | |
| 14 | 16,875,000 | 17,025,000 | 226 | 647 | 0.610421148 | MTSS1 |
| 14 | 16,950,000 | 17,100,000 | 227 | 649 | 1.036847102 | MTSS1 |
| 14 | 17,025,000 | 17,175,000 | 228 | 710 | 0.620339011 | MTSS1,NDUFB9,RNF139,TATDN1 |
| 14 | 17,100,000 | 17,250,000 | 229 | 756 | 0.396627832 | MTSS1,NDUFB9,RNF139,TATDN1,TRMT12,ENSBTAG00000010813 |
| 14 | 17,175,000 | 17,325,000 | 230 | 907 | 0.406735741 | RNF139,TMEM65,TRMT12,ENSBTAG00000010813 |
| 14 | 17,250,000 | 17,400,000 | 231 | 721 | 0.662016647 | TMEM65 |
| 14 | 17,325,000 | 17,475,000 | 232 | 778 | 1.135159687 | FER1L6 |
| 14 | 17,400,000 | 17,550,000 | 233 | 1109 | 0.877150142 | FER1L6 |
| 14 | 17,475,000 | 17,625,000 | 234 | 1137 | 0.606393588 | FER1L6 |
| 14 | 17,550,000 | 17,700,000 | 235 | 1107 | 0.655646587 | FAM91A1,FER1L6 |
| 14 | 17,625,000 | 17,775,000 | 236 | 957 | 0.166388326 | ANXA13,FAM91A1,FER1L6 |
| 14 | 17,700,000 | 17,850,000 | 237 | 887 | -0.620085467 | ANXA13,FAM91A1,KLHL38 |
| 14 | 17,775,000 | 17,925,000 | 238 | 1007 | 0.028474291 | ANXA13,FBXO32,KLHL38 |
| 14 | 17,850,000 | 18,000,000 | 239 | 829 | 0.692500884 | FBXO32 |
| 14 | 17,925,000 | 18,075,000 | 240 | 709 | 1.237846009 | ATAD2,FBXO32,WDYHV1 |
| 14 | 18,000,000 | 18,150,000 | 241 | 567 | 1.221301415 | ATAD2,WDYHV1,ZHX1 |
| 14 | 18,075,000 | 18,225,000 | 242 | 712 | 0.699467816 | ATAD2,FAM83A,TBC1D31,ZHX1,ENSBTAG00000015319 |
| 14 | 18,150,000 | 18,300,000 | 243 | 1133 | 0.493631085 | FAM83A,TBC1D31,ENSBTAG00000015319 |
| 14 | 18,225,000 | 18,375,000 | 244 | 1037 | 0.359019254 | DERL1,TBC1D31 |
| 14 | 18,300,000 | 18,450,000 | 245 | 975 | 0.834227117 | DERL1,ZHX2 |
| 14 | 18,375,000 | 18,525,000 | 246 | 1091 | 1.230239521 | ZHX2 |
| 14 | 18,450,000 | 18,600,000 | 247 | 829 | 1.20881423 | |
| 14 | 18,525,000 | 18,675,000 | 248 | 685 | 1.134264932 | |
| 14 | 18,600,000 | 18,750,000 | 249 | 631 | 0.915009603 | |
| 14 | 18,675,000 | 18,825,000 | 250 | 473 | 0.097758209 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 14 | 18,750,000 | 18,900,000 | 251 | 819 | 0.010126015 | |
| 14 | 18,825,000 | 18,975,000 | 252 | 810 | -0.226511957 | |
| 14 | 18,900,000 | 19,050,000 | 253 | 640 | -1.738991778 | |
| 14 | 18,975,000 | 19,125,000 | 254 | 1061 | -0.734390366 | |
| 14 | 19,050,000 | 19,200,000 | 255 | 872 | 0.14480046 | |
| 14 | 19,125,000 | 19,275,000 | 256 | 613 | -0.005277026 | |
| 14 | 19,200,000 | 19,350,000 | 257 | 891 | -0.190070154 | |
| 14 | 19,275,000 | 19,425,000 | 258 | 1169 | 0.22374075 | |
| 14 | 19,350,000 | 19,500,000 | 259 | 1115 | 0.61358689 | |
| 14 | 19,425,000 | 19,575,000 | 260 | 990 | 0.040558585 | |
| 14 | 19,500,000 | 19,650,000 | 261 | 920 | -0.026765128 | |
| 14 | 19,575,000 | 19,725,000 | 262 | 594 | 0.498865656 | HAS2 |
| 14 | 19,650,000 | 19,800,000 | 263 | 1190 | 0.8549101 | HAS2 |
| 14 | 19,725,000 | 19,875,000 | 264 | 1426 | 0.746314971 | HAS2 |
| 14 | 19,800,000 | 19,950,000 | 265 | 717 | -0.004862372 | |
| 14 | 19,875,000 | 20,025,000 | 266 | 594 | -1.061357487 | |
| 14 | 19,950,000 | 20,100,000 | 267 | 596 | -0.571758463 | |
| 14 | 20,025,000 | 20,175,000 | 268 | 501 | -1.359547127 | |
| 14 | 20,100,000 | 20,250,000 | 269 | 458 | -0.219230496 | |
| 14 | 20,175,000 | 20,325,000 | 270 | 771 | -0.817664252 | |
| 14 | 20,250,000 | 20,400,000 | 271 | 1177 | -0.882604157 | |
| 14 | 20,325,000 | 20,475,000 | 272 | 1147 | 0.175401985 | |
| 14 | 20,400,000 | 20,550,000 | 273 | 1109 | 0.900003087 | |
| 14 | 20,475,000 | 20,625,000 | 274 | 1247 | -0.3681261 | ENSBTAG00000009474 |
| 14 | 20,550,000 | 20,700,000 | 275 | 1015 | -2.246858433 | ENSBTAG00000009474 |
| 14 | 20,625,000 | 20,775,000 | 276 | 591 | -2.153371743 | SPIDR,ENSBTAG00000040351 |
| 14 | 20,700,000 | 20,850,000 | 277 | 352 | 0.077492346 | SPIDR,ENSBTAG00000040351 |
| 14 | 20,775,000 | 20,925,000 | 278 | 419 | 0.484046519 | SPIDR |
| 14 | 20,850,000 | 21,000,000 | 279 | 674 | 0.572878119 | SPIDR |
| 14 | 20,925,000 | 21,075,000 | 280 | 1117 | 0.546216435 | H3F3C,PRKDC,SPIDR |
| 14 | 21,000,000 | 21,150,000 | 281 | 1229 | 0.659335388 | H3F3C,PRKDC |
| 14 | 21,075,000 | 21,225,000 | 282 | 863 | 0.570214381 | PRKDC,ENSBTAG00000046325 |
| 14 | 21,150,000 | 21,300,000 | 283 | 587 | -0.319998331 | PRKDC,UBE2V2,ENSBTAG00000046325 |
| 14 | 21,225,000 | 21,375,000 | 284 | 431 | -0.747647932 | UBE2V2 |
| 14 | 21,300,000 | 21,450,000 | 285 | 360 | 0.980360706 | |
| 14 | 21,375,000 | 21,525,000 | 286 | 354 | 0.87378528 | EFCAB1 |
| 14 | 21,450,000 | 21,600,000 | 287 | 277 | 1.130826124 | EFCAB1,SNAI2 |
| 14 | 21,525,000 | 21,675,000 | 288 | 397 | 1.134186384 | C14H8orf22,SNAI2 |
| 14 | 21,600,000 | 21,750,000 | 289 | 496 | 1.056616331 | C14H8orf22 |
| 14 | 21,675,000 | 21,825,000 | 290 | 699 | 0.877061353 | |
| 14 | 21,750,000 | 21,900,000 | 291 | 875 | 0.315211295 | |
| 14 | 21,825,000 | 21,975,000 | 292 | 698 | 0.277140474 | |
| 14 | 21,900,000 | 22,050,000 | 293 | 530 | 0.71635706 | |
| 14 | 21,975,000 | 22,125,000 | 294 | 545 | -0.129604841 | |
| 14 | 22,050,000 | 22,200,000 | 295 | 1016 | -1.329383911 | |
| 14 | 22,125,000 | 22,275,000 | 296 | 1178 | -0.983294927 | SNTG1 |
| 14 | 22,200,000 | 22,350,000 | 297 | 1294 | 0.657019699 | SNTG1 |
| 14 | 22,275,000 | 22,425,000 | 298 | 1229 | 0.843193476 | SNTG1 |
| 14 | 22,350,000 | 22,500,000 | 299 | 908 | 1.067031144 | SNTG1 |
| 14 | 22,425,000 | 22,575,000 | 300 | 800 | 0.434096733 | |
| 14 | 22,500,000 | 22,650,000 | 301 | 816 | -0.82257573 | |
| 14 | 22,575,000 | 22,725,000 | 302 | 715 | -0.521158814 | PCMTD1 |
| 14 | 22,650,000 | 22,800,000 | 303 | 812 | -0.670708983 | PCMTD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 14 | 22,725,000 | 22,875,000 | 304 | 1060 | -0.43196127 | ST18 |
| 14 | 22,800,000 | 22,950,000 | 305 | 816 | 0.559871006 | ST18 |
| 14 | 22,875,000 | 23,025,000 | 306 | 1017 | 0.391735758 | |
| 14 | 22,950,000 | 23,100,000 | 307 | 1266 | 0.319257111 | ENSBTAG00000026306 |
| 14 | 23,025,000 | 23,175,000 | 308 | 1167 | 0.048837178 | RB1CC1,ENSBTAG00000026306 |
| 14 | 23,100,000 | 23,250,000 | 309 | 937 | 0.167482346 | RB1CC1 |
| 14 | 23,175,000 | 23,325,000 | 310 | 895 | 1.077748238 | NPBWR1,RB1CC1 |
| 14 | 23,250,000 | 23,400,000 | 311 | 954 | -0.482466684 | NPBWR1,OPRK1 |
| 14 | 23,325,000 | 23,475,000 | 312 | 1002 | -1.139939028 | OPRK1 |
| 14 | 23,400,000 | 23,550,000 | 313 | 951 | 0.67950295 | ATP6V1H |
| 14 | 23,475,000 | 23,625,000 | 314 | 677 | 0.688995541 | ATP6V1H,RGS20,TCEA1 |
| 14 | 23,550,000 | 23,700,000 | 315 | 529 | 0.905589541 | ATP6V1H,LYPLA1,MRPL15,RGS20,TCEA1 |
| 14 | 23,625,000 | 23,775,000 | 316 | 591 | 0.086626504 | LYPLA1,MRPL15,POLR2K,TCEA1,ENSBTAG00000033627 |
| 14 | 23,700,000 | 23,850,000 | 317 | 822 | -0.3806698 | POLR2K,ENSBTAG00000033627 |
| 14 | 23,775,000 | 23,925,000 | 318 | 790 | 0.375453226 | SOX17 |
| 14 | 23,850,000 | 24,000,000 | 319 | 923 | 1.0204136 | RP1,SOX17 |
| 14 | 23,925,000 | 24,075,000 | 320 | 969 | -1.339789587 | RP1,ENSBTAG00000047303 |
| 14 | 24,000,000 | 24,150,000 | 321 | 776 | -3.217279639 | ENSBTAG00000047303 |
| 14 | 24,075,000 | 24,225,000 | 322 | 844 | 0.228477071 | ENSBTAG00000047303 |
| 14 | 24,150,000 | 24,300,000 | 323 | 825 | 1.015604199 | XKR4 |
| 14 | 24,225,000 | 24,375,000 | 324 | 811 | 1.03559217 | XKR4 |
| 14 | 24,300,000 | 24,450,000 | 325 | 1039 | 0.801255173 | XKR4 |
| 14 | 24,375,000 | 24,525,000 | 326 | 1142 | 0.694701688 | XKR4 |
| 14 | 24,450,000 | 24,600,000 | 327 | 780 | 0.875134637 | XKR4 |
| 14 | 24,525,000 | 24,675,000 | 328 | 449 | 0.839020469 | XKR4 |
| 14 | 24,600,000 | 24,750,000 | 329 | 581 | 1.083701455 | TGS1,TMEM68,XKR4 |
| 14 | 24,675,000 | 24,825,000 | 330 | 607 | 1.097291598 | TGS1,TMEM68 |
| 14 | 24,750,000 | 24,900,000 | 331 | 700 | 0.254748447 | LYN,TGS1 |
| 14 | 24,825,000 | 24,975,000 | 332 | 1001 | 0.359327117 | LYN,RPS20 |
| 14 | 24,900,000 | 25,050,000 | 333 | 737 | 0.663954173 | C-MOS,LYN,PLAG1,RPS20 |
| 14 | 24,975,000 | 25,125,000 | 334 | 355 | 0.560871005 | C-MOS,CHCHD7,PLAG1,SDR16C5,ENSBTAG00000039031 |
| 14 | 25,050,000 | 25,200,000 | 335 | 289 | -0.018814747 | CHCHD7,SDR16C5,SDR16C6,ENSBTAG00000039031 |
| 14 | 25,125,000 | 25,275,000 | 336 | 466 | 0.628365273 | PENK,SDR16C6 |
| 14 | 25,200,000 | 25,350,000 | 337 | 770 | 0.677619464 | PENK |
| 14 | 25,275,000 | 25,425,000 | 338 | 927 | 0.78039649 | |
| 14 | 25,350,000 | 25,500,000 | 339 | 1151 | 1.014931042 | |
| 14 | 25,425,000 | 25,575,000 | 340 | 1236 | 0.518678604 | IMPAD1 |
| 14 | 25,500,000 | 25,650,000 | 341 | 898 | -0.35628205 | IMPAD1 |
| 14 | 25,575,000 | 25,725,000 | 342 | 557 | -0.890125164 | |
| 14 | 25,650,000 | 25,800,000 | 343 | 436 | 0.241534096 | |
| 14 | 25,725,000 | 25,875,000 | 344 | 570 | 0.993557296 | |
| 14 | 25,800,000 | 25,950,000 | 345 | 940 | 1.085855548 | |
| 14 | 25,875,000 | 26,025,000 | 346 | 1271 | 1.03658241 | |
| 14 | 25,950,000 | 26,100,000 | 347 | 1285 | 0.757166065 | |
| 14 | 26,025,000 | 26,175,000 | 348 | 923 | 0.313102287 | FAM110B |
| 14 | 26,100,000 | 26,250,000 | 349 | 614 | 0.344417128 | FAM110B,RPL39 |
| 14 | 26,175,000 | 26,325,000 | 350 | 476 | 0.38777862 | RPL39,UBXN2B |
| 14 | 26,250,000 | 26,400,000 | 351 | 583 | 0.285362532 | CYP7A1,UBXN2B |
| 14 | 26,325,000 | 26,475,000 | 352 | 765 | 0.675763194 | CYP7A1,NSMAF,SDCBP |
| 14 | 26,400,000 | 26,550,000 | 353 | 848 | 0.975510064 | NSMAF,SDCBP |
| 14 | 26,475,000 | 26,625,000 | 354 | 939 | 0.291042173 | NSMAF |
| 14 | 26,550,000 | 26,700,000 | 355 | 721 | -0.487492543 | TOX |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------|
| 14 | 26,625,000 | 26,775,000 | 356 | 454 | 0.270716476 | TOX |
| 14 | 26,700,000 | 26,850,000 | 357 | 336 | 0.936440815 | TOX |
| 14 | 26,775,000 | 26,925,000 | 358 | 285 | 0.041057257 | TOX |
| 14 | 26,850,000 | 27,000,000 | 359 | 445 | 0.043133017 | TOX |
| 14 | 26,925,000 | 27,075,000 | 360 | 441 | 0.500467917 | TOX |
| 14 | 27,000,000 | 27,150,000 | 361 | 321 | 0.514239551 | |
| 14 | 27,075,000 | 27,225,000 | 362 | 505 | 0.430100031 | |
| 14 | 27,150,000 | 27,300,000 | 363 | 616 | 0.257626389 | |
| 14 | 27,225,000 | 27,375,000 | 364 | 590 | 0.45913218 | |
| 14 | 27,300,000 | 27,450,000 | 365 | 612 | 0.64513673 | |
| 14 | 27,375,000 | 27,525,000 | 366 | 590 | 0.008788445 | |
| 14 | 27,450,000 | 27,600,000 | 367 | 627 | 0.236998091 | |
| 14 | 27,525,000 | 27,675,000 | 368 | 741 | 0.359812194 | CA8 |
| 14 | 27,600,000 | 27,750,000 | 369 | 683 | 0.169283193 | CA8 |
| 14 | 27,675,000 | 27,825,000 | 370 | 699 | 0.26580602 | CA8 |
| 14 | 27,750,000 | 27,900,000 | 371 | 779 | -1.487290844 | RAB2A |
| 14 | 27,825,000 | 27,975,000 | 372 | 655 | -2.890335969 | RAB2A |
| 14 | 27,900,000 | 28,050,000 | 373 | 649 | -0.542294476 | CHD7,RAB2A |
| 14 | 27,975,000 | 28,125,000 | 374 | 803 | -0.019552875 | CHD7 |
| 14 | 28,050,000 | 28,200,000 | 375 | 757 | -0.175521592 | CHD7 |
| 14 | 28,125,000 | 28,275,000 | 376 | 504 | 0.213682516 | CHD7 |
| 14 | 28,200,000 | 28,350,000 | 377 | 391 | 0.237337578 | |
| 14 | 28,275,000 | 28,425,000 | 378 | 617 | 0.473725389 | |
| 14 | 28,350,000 | 28,500,000 | 379 | 879 | 0.569073832 | |
| 14 | 28,425,000 | 28,575,000 | 380 | 990 | 0.60171983 | CLVS1 |
| 14 | 28,500,000 | 28,650,000 | 381 | 1130 | -0.045678404 | CLVS1 |
| 14 | 28,575,000 | 28,725,000 | 382 | 865 | -0.59358927 | ASPH |
| 14 | 28,650,000 | 28,800,000 | 383 | 501 | 0.330102354 | ASPH |
| 14 | 28,725,000 | 28,875,000 | 384 | 374 | 1.043904463 | ASPH |
| 14 | 28,800,000 | 28,950,000 | 385 | 537 | 0.393102899 | ASPH |
| 14 | 28,875,000 | 29,025,000 | 386 | 923 | -0.771433692 | ASPH |
| 14 | 28,950,000 | 29,100,000 | 387 | 1149 | -0.737204048 | |
| 14 | 29,025,000 | 29,175,000 | 388 | 956 | 0.090336005 | |
| 14 | 29,100,000 | 29,250,000 | 389 | 830 | -0.597398727 | |
| 14 | 29,175,000 | 29,325,000 | 390 | 1025 | -1.039570605 | |
| 14 | 29,250,000 | 29,400,000 | 391 | 868 | -0.746995275 | |
| 14 | 29,325,000 | 29,475,000 | 392 | 722 | -1.261032288 | |
| 14 | 29,400,000 | 29,550,000 | 393 | 1070 | 0.405425914 | |
| 14 | 29,475,000 | 29,625,000 | 394 | 1133 | 1.22985763 | |
| 14 | 29,550,000 | 29,700,000 | 395 | 1035 | 0.043108347 | |
| 14 | 29,625,000 | 29,775,000 | 396 | 930 | -0.255367107 | GGH,TTPA |
| 14 | 29,700,000 | 29,850,000 | 397 | 464 | -0.012552227 | GGH,TTPA,YTHDF3 |
| 14 | 29,775,000 | 29,925,000 | 398 | 381 | -0.795687986 | TTPA,YTHDF3 |
| 14 | 29,850,000 | 30,000,000 | 399 | 748 | -1.744577444 | YTHDF3 |
| 14 | 29,925,000 | 30,075,000 | 400 | 859 | -1.555726672 | |
| 14 | 30,000,000 | 30,150,000 | 401 | 678 | -0.535243125 | |
| 14 | 30,075,000 | 30,225,000 | 402 | 631 | -0.411413667 | |
| 14 | 30,150,000 | 30,300,000 | 403 | 559 | -0.400751282 | |
| 14 | 30,225,000 | 30,375,000 | 404 | 709 | -0.038447347 | |
| 14 | 30,300,000 | 30,450,000 | 405 | 784 | -0.076907442 | |
| 14 | 30,375,000 | 30,525,000 | 406 | 714 | -0.317860734 | |
| 14 | 30,450,000 | 30,600,000 | 407 | 773 | 0.020253489 | |
| 14 | 30,525,000 | 30,675,000 | 408 | 537 | 0.433977715 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 14 | 30,600,000 | 30,750,000 | 409 | 379 | 0.611733566 | |
| 14 | 30,675,000 | 30,825,000 | 410 | 340 | 0.700011091 | |
| 14 | 30,750,000 | 30,900,000 | 411 | 446 | -0.1143242 | |
| 14 | 30,825,000 | 30,975,000 | 412 | 636 | -0.440004748 | BHLHE22 |
| 14 | 30,900,000 | 31,050,000 | 413 | 520 | -0.746302373 | BHLHE22,CYP7B1 |
| 14 | 30,975,000 | 31,125,000 | 414 | 429 | -0.572006322 | CYP7B1 |
| 14 | 31,050,000 | 31,200,000 | 415 | 581 | 0.203812388 | CYP7B1 |
| 14 | 31,125,000 | 31,275,000 | 416 | 717 | 0.04102466 | CYP7B1 |
| 14 | 31,200,000 | 31,350,000 | 417 | 715 | 0.14983049 | |
| 14 | 31,275,000 | 31,425,000 | 418 | 632 | 0.720263887 | |
| 14 | 31,350,000 | 31,500,000 | 419 | 504 | 0.709877885 | |
| 14 | 31,425,000 | 31,575,000 | 420 | 383 | 0.34910871 | |
| 14 | 31,500,000 | 31,650,000 | 421 | 265 | 0.017782452 | |
| 14 | 31,575,000 | 31,725,000 | 422 | 389 | 0.647348681 | ARMC1 |
| 14 | 31,650,000 | 31,800,000 | 423 | 615 | 1.056454416 | ARMC1,MTFR1 |
| 14 | 31,725,000 | 31,875,000 | 424 | 609 | 0.56316681 | MTFR1,PDE7A |
| 14 | 31,800,000 | 31,950,000 | 425 | 656 | 0.258644825 | PDE7A |
| 14 | 31,875,000 | 32,025,000 | 426 | 874 | 0.430149496 | |
| 14 | 31,950,000 | 32,100,000 | 427 | 1080 | 0.09648158 | DNAJC5B |
| 14 | 32,025,000 | 32,175,000 | 428 | 940 | -1.065604001 | DNAJC5B,TRIM55 |
| 14 | 32,100,000 | 32,250,000 | 429 | 695 | -1.755873762 | CRH,DNAJC5B,TRIM55 |
| 14 | 32,175,000 | 32,325,000 | 430 | 613 | -0.630642794 | CRH,TRIM55 |
| 14 | 32,250,000 | 32,400,000 | 431 | 324 | 0.483757723 | |
| 14 | 32,325,000 | 32,475,000 | 432 | 73 | 0.184738616 | |
| 14 | 32,400,000 | 32,550,000 | 433 | 99 | -0.768977294 | ENSBTAG00000040021 |
| 14 | 32,475,000 | 32,625,000 | 434 | 341 | 0.64682123 | ENSBTAG00000040021 |
| 14 | 32,550,000 | 32,700,000 | 435 | 553 | 0.721863819 | RRS1 |
| 14 | 32,625,000 | 32,775,000 | 436 | 428 | 0.166436561 | ADHFE1,C14H8orf46,RRS1 |
| 14 | 32,700,000 | 32,850,000 | 437 | 275 | -1.429549915 | ADHFE1,C14H8orf46,MYBL1,RRS1 |
| 14 | 32,775,000 | 32,925,000 | 438 | 213 | -1.56189406 | C14H8orf46,MYBL1,VCPIP1 |
| 14 | 32,850,000 | 33,000,000 | 439 | 191 | -0.905437035 | MYBL1,VCPIP1 |
| 14 | 32,925,000 | 33,075,000 | 440 | 211 | -0.959074245 | MCMDC2,ENSBTAG00000013284 |
| 14 | 33,000,000 | 33,150,000 | 441 | 195 | -0.57301948 | MCMDC2,PPP1R42,ENSBTAG00000013284 |
| 14 | 33,075,000 | 33,225,000 | 442 | 398 | -4.150622673 | COPS5,MCMDC2,PPP1R42 |
| 14 | 33,150,000 | 33,300,000 | 443 | 722 | -5.340242414 | COPS5,CSPP1,PPP1R42 |
| 14 | 33,225,000 | 33,375,000 | 444 | 977 | -2.523664619 | ARFGF1,COPS5,CSPP1 |
| 14 | 33,300,000 | 33,450,000 | 445 | 1111 | -2.26826718 | ARFGF1,CSPP1 |
| 14 | 33,375,000 | 33,525,000 | 446 | 821 | -3.211337082 | ARFGF1 |
| 14 | 33,450,000 | 33,600,000 | 447 | 909 | -0.418570562 | ARFGF1,CPA6 |
| 14 | 33,525,000 | 33,675,000 | 448 | 907 | 0.092952179 | CPA6 |
| 14 | 33,600,000 | 33,750,000 | 449 | 513 | 0.854144579 | CPA6 |
| 14 | 33,675,000 | 33,825,000 | 450 | 470 | 0.883156138 | |
| 14 | 33,750,000 | 33,900,000 | 451 | 410 | -0.710451323 | |
| 14 | 33,825,000 | 33,975,000 | 452 | 506 | -0.513000874 | |
| 14 | 33,900,000 | 34,050,000 | 453 | 764 | -0.09316649 | PREX2 |
| 14 | 33,975,000 | 34,125,000 | 454 | 744 | 0.478272327 | PREX2 |
| 14 | 34,050,000 | 34,200,000 | 455 | 531 | 0.986768985 | PREX2 |
| 14 | 34,125,000 | 34,275,000 | 456 | 616 | 0.436715999 | PREX2 |
| 14 | 34,200,000 | 34,350,000 | 457 | 892 | 0.360305687 | PREX2 |
| 14 | 34,275,000 | 34,425,000 | 458 | 1041 | 0.609802057 | PREX2 |
| 14 | 34,350,000 | 34,500,000 | 459 | 1036 | 0.746803433 | C14H8orf34 |
| 14 | 34,425,000 | 34,575,000 | 460 | 857 | 0.750603112 | C14H8orf34 |
| 14 | 34,500,000 | 34,650,000 | 461 | 590 | 0.696389329 | C14H8orf34 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 14 | 34,575,000 | 34,725,000 | 462 | 790 | -1.853859928 | C14H8orf34 |
| 14 | 34,650,000 | 34,800,000 | 463 | 921 | -1.616440369 | C14H8orf34 |
| 14 | 34,725,000 | 34,875,000 | 464 | 743 | 0.45212715 | C14H8orf34 |
| 14 | 34,800,000 | 34,950,000 | 465 | 547 | 1.090898361 | C14H8orf34 |
| 14 | 34,875,000 | 35,025,000 | 466 | 424 | 0.823131199 | |
| 14 | 34,950,000 | 35,100,000 | 467 | 608 | 0.555547559 | |
| 14 | 35,025,000 | 35,175,000 | 468 | 579 | 0.138145688 | |
| 14 | 35,100,000 | 35,250,000 | 469 | 583 | 0.167159375 | |
| 14 | 35,175,000 | 35,325,000 | 470 | 574 | 0.340481809 | |
| 14 | 35,250,000 | 35,400,000 | 471 | 412 | 0.192437954 | |
| 14 | 35,325,000 | 35,475,000 | 472 | 468 | -0.064301324 | |
| 14 | 35,400,000 | 35,550,000 | 473 | 437 | -0.508637444 | SULF1 |
| 14 | 35,475,000 | 35,625,000 | 474 | 332 | -0.252935235 | SLCO5A1,SULF1,ENSBTAG00000037399 |
| 14 | 35,550,000 | 35,700,000 | 475 | 468 | 0.212541077 | SLCO5A1,SULF1,ENSBTAG00000037399 |
| 14 | 35,625,000 | 35,775,000 | 476 | 582 | 0.745985563 | SLCO5A1 |
| 14 | 35,700,000 | 35,850,000 | 477 | 423 | 0.838542113 | SLCO5A1 |
| 14 | 35,775,000 | 35,925,000 | 478 | 585 | 0.529058335 | PRDM14 |
| 14 | 35,850,000 | 36,000,000 | 479 | 534 | 0.647831258 | NCOA2,PRDM14 |
| 14 | 35,925,000 | 36,075,000 | 480 | 292 | -1.463414011 | NCOA2 |
| 14 | 36,000,000 | 36,150,000 | 481 | 257 | -1.921065713 | NCOA2 |
| 14 | 36,075,000 | 36,225,000 | 482 | 139 | 1.352351394 | NCOA2 |
| 14 | 36,150,000 | 36,300,000 | 483 | 363 | 1.078587392 | |
| 14 | 36,225,000 | 36,375,000 | 484 | 652 | -1.544349753 | |
| 14 | 36,300,000 | 36,450,000 | 485 | 525 | -2.495558321 | LACTB2,TRAM1 |
| 14 | 36,375,000 | 36,525,000 | 486 | 298 | -0.562945101 | LACTB2,TRAM1,XKR9 |
| 14 | 36,450,000 | 36,600,000 | 487 | 308 | -2.125349514 | LACTB2,XKR9 |
| 14 | 36,525,000 | 36,675,000 | 488 | 335 | -2.595514274 | |
| 14 | 36,600,000 | 36,750,000 | 489 | 318 | -0.835065167 | |
| 14 | 36,675,000 | 36,825,000 | 490 | 432 | 0.772445628 | |
| 14 | 36,750,000 | 36,900,000 | 491 | 614 | 0.959797821 | EYA1 |
| 14 | 36,825,000 | 36,975,000 | 492 | 435 | 1.107319476 | EYA1 |
| 14 | 36,900,000 | 37,050,000 | 493 | 199 | 1.335027308 | EYA1 |
| 14 | 36,975,000 | 37,125,000 | 494 | 209 | 0.700841707 | EYA1 |
| 14 | 37,050,000 | 37,200,000 | 495 | 302 | 1.204611431 | EYA1 |
| 14 | 37,125,000 | 37,275,000 | 496 | 273 | 1.490789705 | EYA1 |
| 14 | 37,200,000 | 37,350,000 | 497 | 226 | 1.489500502 | EYA1 |
| 14 | 37,275,000 | 37,425,000 | 498 | 275 | 1.430811206 | |
| 14 | 37,350,000 | 37,500,000 | 499 | 379 | 0.224625698 | |
| 14 | 37,425,000 | 37,575,000 | 500 | 446 | -0.16457365 | MSC |
| 14 | 37,500,000 | 37,650,000 | 501 | 570 | 0.873887378 | MSC |
| 14 | 37,575,000 | 37,725,000 | 502 | 601 | 1.009533597 | TRPA1 |
| 14 | 37,650,000 | 37,800,000 | 503 | 494 | 0.680346838 | TRPA1 |
| 14 | 37,725,000 | 37,875,000 | 504 | 552 | -0.343005607 | TRPA1 |
| 14 | 37,800,000 | 37,950,000 | 505 | 854 | -1.452570855 | |
| 14 | 37,875,000 | 38,025,000 | 506 | 814 | -1.708537438 | KCNB2,ENSBTAG00000048040 |
| 14 | 37,950,000 | 38,100,000 | 507 | 345 | -1.279134224 | KCNB2,ENSBTAG00000048040 |
| 14 | 38,025,000 | 38,175,000 | 508 | 373 | -0.195752688 | KCNB2 |
| 14 | 38,100,000 | 38,250,000 | 509 | 975 | 0.817116662 | KCNB2 |
| 14 | 38,175,000 | 38,325,000 | 510 | 1100 | 1.220955463 | KCNB2 |
| 14 | 38,250,000 | 38,400,000 | 511 | 932 | 1.164047586 | KCNB2 |
| 14 | 38,325,000 | 38,475,000 | 512 | 1042 | 0.904825595 | KCNB2 |
| 14 | 38,400,000 | 38,550,000 | 513 | 825 | 0.642675642 | KCNB2,TERF1 |
| 14 | 38,475,000 | 38,625,000 | 514 | 740 | -0.257311602 | SBSPON,TERF1,ENSBTAG00000037470 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 14 | 38,550,000 | 38,700,000 | 515 | 743 | -0.2948276 | SBSPON,ENSBTAG00000037470 |
| 14 | 38,625,000 | 38,775,000 | 516 | 624 | -0.122888881 | RDH10,RPL7,ENSBTAG00000047607 |
| 14 | 38,700,000 | 38,850,000 | 517 | 527 | 0.077542595 | RDH10,RPL7,ENSBTAG00000047607 |
| 14 | 38,775,000 | 38,925,000 | 518 | 422 | 0.797480986 | |
| 14 | 38,850,000 | 39,000,000 | 519 | 352 | 0.922880939 | STAU2 |
| 14 | 38,925,000 | 39,075,000 | 520 | 361 | 0.71341777 | STAU2 |
| 14 | 39,000,000 | 39,150,000 | 521 | 359 | 0.392174567 | STAU2 |
| 14 | 39,075,000 | 39,225,000 | 522 | 320 | 0.419324671 | |
| 14 | 39,150,000 | 39,300,000 | 523 | 397 | 0.692402191 | UBE2W |
| 14 | 39,225,000 | 39,375,000 | 524 | 642 | 0.891279499 | MD2,TCEB1,TMEM70,UBE2W |
| 14 | 39,300,000 | 39,450,000 | 525 | 813 | 0.662963458 | MD2,TCEB1,TMEM70 |
| 14 | 39,375,000 | 39,525,000 | 526 | 998 | -0.265087298 | MD2 |
| 14 | 39,450,000 | 39,600,000 | 527 | 993 | -0.739019912 | |
| 14 | 39,525,000 | 39,675,000 | 528 | 744 | 0.021986995 | JPH1 |
| 14 | 39,600,000 | 39,750,000 | 529 | 732 | 0.847831912 | JPH1 |
| 14 | 39,675,000 | 39,825,000 | 530 | 576 | 0.773979806 | GDAP1,JPH1 |
| 14 | 39,750,000 | 39,900,000 | 531 | 516 | -0.157797927 | GDAP1 |
| 14 | 39,825,000 | 39,975,000 | 532 | 723 | 0.032335702 | |
| 14 | 39,900,000 | 40,050,000 | 533 | 995 | 0.516641279 | |
| 14 | 39,975,000 | 40,125,000 | 534 | 963 | 0.635442343 | |
| 14 | 40,050,000 | 40,200,000 | 535 | 620 | 0.591331858 | |
| 14 | 40,125,000 | 40,275,000 | 536 | 392 | 0.018211354 | |
| 14 | 40,200,000 | 40,350,000 | 537 | 439 | 0.236663369 | PI15 |
| 14 | 40,275,000 | 40,425,000 | 538 | 654 | 0.569496737 | CRISPLD1,PI15 |
| 14 | 40,350,000 | 40,500,000 | 539 | 679 | -0.977441739 | CRISPLD1 |
| 14 | 40,425,000 | 40,575,000 | 540 | 484 | -1.711686257 | CRISPLD1 |
| 14 | 40,500,000 | 40,650,000 | 541 | 406 | 1.116947348 | |
| 14 | 40,575,000 | 40,725,000 | 542 | 648 | 1.047631434 | |
| 14 | 40,650,000 | 40,800,000 | 543 | 603 | 0.36745976 | |
| 14 | 40,725,000 | 40,875,000 | 544 | 639 | -1.582745392 | HNF4G |
| 14 | 40,800,000 | 40,950,000 | 545 | 608 | -1.439194087 | HNF4G |
| 14 | 40,875,000 | 41,025,000 | 546 | 669 | 0.240501645 | HNF4G |
| 14 | 40,950,000 | 41,100,000 | 547 | 685 | 0.144116551 | HNF4G |
| 14 | 41,025,000 | 41,175,000 | 548 | 396 | -0.029049109 | |
| 14 | 41,100,000 | 41,250,000 | 549 | 416 | -0.041735142 | |
| 14 | 41,175,000 | 41,325,000 | 550 | 328 | -0.612904615 | |
| 14 | 41,250,000 | 41,400,000 | 551 | 705 | 0.691729167 | |
| 14 | 41,325,000 | 41,475,000 | 552 | 1088 | 1.219519485 | |
| 14 | 41,400,000 | 41,550,000 | 553 | 1121 | 1.081430327 | |
| 14 | 41,475,000 | 41,625,000 | 554 | 975 | 0.718104039 | |
| 14 | 41,550,000 | 41,700,000 | 555 | 724 | 0.163684401 | |
| 14 | 41,625,000 | 41,775,000 | 556 | 768 | -0.259305227 | |
| 14 | 41,700,000 | 41,850,000 | 557 | 636 | -1.613918193 | |
| 14 | 41,775,000 | 41,925,000 | 558 | 583 | -1.495707432 | |
| 14 | 41,850,000 | 42,000,000 | 559 | 584 | 0.133985929 | ZFHX4 |
| 14 | 41,925,000 | 42,075,000 | 560 | 456 | 1.108316811 | ZFHX4 |
| 14 | 42,000,000 | 42,150,000 | 561 | 339 | 0.697460108 | ZFHX4 |
| 14 | 42,075,000 | 42,225,000 | 562 | 268 | 0.725327174 | ZFHX4 |
| 14 | 42,150,000 | 42,300,000 | 563 | 729 | 1.119624623 | ZFHX4,ENSBTAG00000047355 |
| 14 | 42,225,000 | 42,375,000 | 564 | 1008 | 1.103007108 | PEX2,ENSBTAG00000047355 |
| 14 | 42,300,000 | 42,450,000 | 565 | 956 | 1.103721116 | PEX2 |
| 14 | 42,375,000 | 42,525,000 | 566 | 1101 | 1.155015928 | |
| 14 | 42,450,000 | 42,600,000 | 567 | 758 | 0.875757188 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 14 | 42,525,000 | 42,675,000 | 568 | 624 | 0.117091199 | MRPL33 |
| 14 | 42,600,000 | 42,750,000 | 569 | 783 | -0.304051713 | MRPL33 |
| 14 | 42,675,000 | 42,825,000 | 570 | 858 | -1.195825125 | |
| 14 | 42,750,000 | 42,900,000 | 571 | 1044 | -0.705438161 | |
| 14 | 42,825,000 | 42,975,000 | 572 | 961 | 0.378814203 | |
| 14 | 42,900,000 | 43,050,000 | 573 | 664 | 0.579403709 | ENSBTAG00000039499 |
| 14 | 42,975,000 | 43,125,000 | 574 | 398 | -0.899165313 | ENSBTAG00000039499 |
| 14 | 43,050,000 | 43,200,000 | 575 | 312 | -2.921736656 | |
| 14 | 43,125,000 | 43,275,000 | 576 | 594 | -2.194206171 | |
| 14 | 43,200,000 | 43,350,000 | 577 | 639 | -1.745594506 | |
| 14 | 43,275,000 | 43,425,000 | 578 | 612 | -1.605205747 | |
| 14 | 43,350,000 | 43,500,000 | 579 | 716 | -1.635910997 | |
| 14 | 43,425,000 | 43,575,000 | 580 | 538 | -0.151729448 | |
| 14 | 43,500,000 | 43,650,000 | 581 | 542 | 0.292778946 | |
| 14 | 43,575,000 | 43,725,000 | 582 | 618 | -0.505653034 | ENSBTAG00000017169 |
| 14 | 43,650,000 | 43,800,000 | 583 | 653 | -1.189250785 | ENSBTAG00000017169 |
| 14 | 43,725,000 | 43,875,000 | 584 | 466 | -2.502029586 | |
| 14 | 43,800,000 | 43,950,000 | 585 | 498 | -5.709621879 | PKIA |
| 14 | 43,875,000 | 44,025,000 | 586 | 530 | -3.700572195 | PKIA |
| 14 | 43,950,000 | 44,100,000 | 587 | 328 | 0.829686581 | IL7,PKIA,ZC2HC1A |
| 14 | 44,025,000 | 44,175,000 | 588 | 620 | -0.233225386 | IL7,ZC2HC1A |
| 14 | 44,100,000 | 44,250,000 | 589 | 856 | -0.221743859 | IL7 |
| 14 | 44,175,000 | 44,325,000 | 590 | 571 | 0.181792636 | IL7 |
| 14 | 44,250,000 | 44,400,000 | 591 | 304 | -0.099578651 | |
| 14 | 44,325,000 | 44,475,000 | 592 | 346 | -0.20728027 | |
| 14 | 44,400,000 | 44,550,000 | 593 | 389 | 0.18712475 | |
| 14 | 44,475,000 | 44,625,000 | 594 | 309 | 0.263845737 | |
| 14 | 44,550,000 | 44,700,000 | 595 | 299 | -0.584983808 | |
| 14 | 44,625,000 | 44,775,000 | 596 | 495 | 0.154188206 | |
| 14 | 44,700,000 | 44,850,000 | 597 | 653 | 0.64151041 | |
| 14 | 44,775,000 | 44,925,000 | 598 | 719 | 0.154857336 | |
| 14 | 44,850,000 | 45,000,000 | 599 | 639 | 0.143131594 | STMN2 |
| 14 | 44,925,000 | 45,075,000 | 600 | 695 | 0.781498294 | STMN2,ENSBTAG00000032812 |
| 14 | 45,000,000 | 45,150,000 | 601 | 780 | 0.799535686 | HEY1,STMN2,ENSBTAG00000032812 |
| 14 | 45,075,000 | 45,225,000 | 602 | 467 | 0.649938345 | HEY1 |
| 14 | 45,150,000 | 45,300,000 | 603 | 375 | 0.844312909 | MRPS28 |
| 14 | 45,225,000 | 45,375,000 | 604 | 641 | 1.092949245 | MRPS28 |
| 14 | 45,300,000 | 45,450,000 | 605 | 559 | 1.058717142 | MRPS28 |
| 14 | 45,375,000 | 45,525,000 | 606 | 424 | 1.251486564 | MRPS28,TPD52 |
| 14 | 45,450,000 | 45,600,000 | 607 | 521 | 1.282204786 | MRPS28,TPD52 |
| 14 | 45,525,000 | 45,675,000 | 608 | 366 | 1.235894934 | TPD52 |
| 14 | 45,600,000 | 45,750,000 | 609 | 282 | 0.485811751 | |
| 14 | 45,675,000 | 45,825,000 | 610 | 367 | -0.88874721 | |
| 14 | 45,750,000 | 45,900,000 | 611 | 322 | -0.862907826 | ZBTB10 |
| 14 | 45,825,000 | 45,975,000 | 612 | 388 | 0.99012083 | ZBTB10 |
| 14 | 45,900,000 | 46,050,000 | 613 | 445 | 0.914151973 | ZNF704 |
| 14 | 45,975,000 | 46,125,000 | 614 | 434 | -0.283517454 | ZNF704 |
| 14 | 46,050,000 | 46,200,000 | 615 | 642 | -0.297262722 | |
| 14 | 46,125,000 | 46,275,000 | 616 | 721 | 0.16111384 | |
| 14 | 46,200,000 | 46,350,000 | 617 | 498 | 0.28021495 | PAG1 |
| 14 | 46,275,000 | 46,425,000 | 618 | 381 | 1.079850245 | PAG1 |
| 14 | 46,350,000 | 46,500,000 | 619 | 471 | 0.713804818 | PAG1 |
| 14 | 46,425,000 | 46,575,000 | 620 | 467 | -0.042530937 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 14 | 46,500,000 | 46,650,000 | 621 | 452 | -0.159240768 | FABP5 |
| 14 | 46,575,000 | 46,725,000 | 622 | 428 | 0.05721415 | FABP5 |
| 14 | 46,650,000 | 46,800,000 | 623 | 657 | -1.292545255 | |
| 14 | 46,725,000 | 46,875,000 | 624 | 900 | -1.308341825 | FABP4,FABP9,PMP2 |
| 14 | 46,800,000 | 46,950,000 | 625 | 590 | -1.092188537 | FABP12,FABP4,FABP9,PMP2 |
| 14 | 46,875,000 | 47,025,000 | 626 | 408 | -1.51762187 | FABP12,NOV |
| 14 | 46,950,000 | 47,100,000 | 627 | 557 | -0.045465821 | NOV |
| 14 | 47,025,000 | 47,175,000 | 628 | 575 | -0.468159924 | MAL2 |
| 14 | 47,100,000 | 47,250,000 | 629 | 410 | -1.572130214 | MAL2 |
| 14 | 47,175,000 | 47,325,000 | 630 | 585 | 1.02771697 | COLEC10 |
| 14 | 47,250,000 | 47,400,000 | 631 | 633 | 1.098920403 | COLEC10 |
| 14 | 47,325,000 | 47,475,000 | 632 | 423 | 0.830640292 | TNFRSF11B |
| 14 | 47,400,000 | 47,550,000 | 633 | 397 | 1.015799576 | TNFRSF11B |
| 14 | 47,475,000 | 47,625,000 | 634 | 535 | 0.921467569 | |
| 14 | 47,550,000 | 47,700,000 | 635 | 893 | 0.495868325 | |
| 14 | 47,625,000 | 47,775,000 | 636 | 820 | 0.334415838 | |
| 14 | 47,700,000 | 47,850,000 | 637 | 504 | 0.390751253 | SAMD12 |
| 14 | 47,775,000 | 47,925,000 | 638 | 405 | -0.089786059 | SAMD12 |
| 14 | 47,850,000 | 48,000,000 | 639 | 482 | -0.333461299 | SAMD12 |
| 14 | 47,925,000 | 48,075,000 | 640 | 462 | -0.462628241 | SAMD12 |
| 14 | 48,000,000 | 48,150,000 | 641 | 611 | -0.920460397 | SAMD12 |
| 14 | 48,075,000 | 48,225,000 | 642 | 905 | -0.298762418 | SAMD12 |
| 14 | 48,150,000 | 48,300,000 | 643 | 708 | 0.225389563 | SAMD12 |
| 14 | 48,225,000 | 48,375,000 | 644 | 469 | 0.191215659 | EXT1 |
| 14 | 48,300,000 | 48,450,000 | 645 | 897 | 0.393121472 | EXT1 |
| 14 | 48,375,000 | 48,525,000 | 646 | 1043 | 0.159799333 | EXT1 |
| 14 | 48,450,000 | 48,600,000 | 647 | 718 | 0.257808251 | EXT1 |
| 14 | 48,525,000 | 48,675,000 | 648 | 618 | 1.026782185 | EXT1 |
| 14 | 48,600,000 | 48,750,000 | 649 | 574 | 1.099432405 | EXT1 |
| 14 | 48,675,000 | 48,825,000 | 650 | 707 | 1.099542503 | |
| 14 | 48,750,000 | 48,900,000 | 651 | 881 | 1.078948471 | |
| 14 | 48,825,000 | 48,975,000 | 652 | 800 | 1.006841088 | MED30 |
| 14 | 48,900,000 | 49,050,000 | 653 | 702 | 1.219334241 | MED30 |
| 14 | 48,975,000 | 49,125,000 | 654 | 648 | 1.18513716 | |
| 14 | 49,050,000 | 49,200,000 | 655 | 784 | 0.857041645 | |
| 14 | 49,125,000 | 49,275,000 | 656 | 958 | 0.912447563 | |
| 14 | 49,200,000 | 49,350,000 | 657 | 1007 | 0.451038146 | |
| 14 | 49,275,000 | 49,425,000 | 658 | 761 | -0.68328811 | |
| 14 | 49,350,000 | 49,500,000 | 659 | 521 | -0.954652354 | AARD |
| 14 | 49,425,000 | 49,575,000 | 660 | 690 | 0.962363025 | AARD,RAD21 |
| 14 | 49,500,000 | 49,650,000 | 661 | 564 | 1.275189849 | AARD,RAD21 |
| 14 | 49,575,000 | 49,725,000 | 662 | 400 | 0.600400279 | RAD21,UTP23 |
| 14 | 49,650,000 | 49,800,000 | 663 | 435 | 0.581502099 | EIF3H,UTP23 |
| 14 | 49,725,000 | 49,875,000 | 664 | 471 | 0.698165254 | EIF3H |
| 14 | 49,800,000 | 49,950,000 | 665 | 512 | 0.36235206 | EIF3H |
| 14 | 49,875,000 | 50,025,000 | 666 | 472 | 0.442643123 | |
| 14 | 49,950,000 | 50,100,000 | 667 | 290 | 0.926241853 | |
| 14 | 50,025,000 | 50,175,000 | 668 | 189 | 0.908878706 | |
| 14 | 50,100,000 | 50,250,000 | 669 | 521 | -0.623254218 | |
| 14 | 50,175,000 | 50,325,000 | 670 | 573 | -0.895917547 | |
| 14 | 50,250,000 | 50,400,000 | 671 | 563 | -0.556649831 | |
| 14 | 50,325,000 | 50,475,000 | 672 | 685 | 0.036127005 | |
| 14 | 50,400,000 | 50,550,000 | 673 | 500 | 1.076940444 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------|
| 14 | 50,475,000 | 50,625,000 | 674 | 504 | 1.211510361 | |
| 14 | 50,550,000 | 50,700,000 | 675 | 668 | 1.300434949 | |
| 14 | 50,625,000 | 50,775,000 | 676 | 472 | 1.259170588 | |
| 14 | 50,700,000 | 50,850,000 | 677 | 223 | 0.923215981 | TRPS1 |
| 14 | 50,775,000 | 50,925,000 | 678 | 319 | 0.818371862 | TRPS1 |
| 14 | 50,850,000 | 51,000,000 | 679 | 423 | 0.760234118 | TRPS1 |
| 14 | 50,925,000 | 51,075,000 | 680 | 414 | 0.878088621 | TRPS1 |
| 14 | 51,000,000 | 51,150,000 | 681 | 267 | 0.698253731 | TRPS1 |
| 14 | 51,075,000 | 51,225,000 | 682 | 536 | 0.847124297 | |
| 14 | 51,150,000 | 51,300,000 | 683 | 776 | 0.552686184 | |
| 14 | 51,225,000 | 51,375,000 | 684 | 607 | -0.400296168 | |
| 14 | 51,300,000 | 51,450,000 | 685 | 596 | -2.298033531 | |
| 14 | 51,375,000 | 51,525,000 | 686 | 779 | -1.624644911 | |
| 14 | 51,450,000 | 51,600,000 | 687 | 759 | -1.443675218 | |
| 14 | 51,525,000 | 51,675,000 | 688 | 835 | -1.188856583 | |
| 14 | 51,600,000 | 51,750,000 | 689 | 768 | -0.184364217 | |
| 14 | 51,675,000 | 51,825,000 | 690 | 653 | 0.739714143 | |
| 14 | 51,750,000 | 51,900,000 | 691 | 924 | 0.779940194 | |
| 14 | 51,825,000 | 51,975,000 | 692 | 978 | 0.318430436 | |
| 14 | 51,900,000 | 52,050,000 | 693 | 988 | -0.092354404 | |
| 14 | 51,975,000 | 52,125,000 | 694 | 1235 | 0.105338303 | |
| 14 | 52,050,000 | 52,200,000 | 695 | 1467 | 0.539545559 | |
| 14 | 52,125,000 | 52,275,000 | 696 | 1334 | 0.691619913 | |
| 14 | 52,200,000 | 52,350,000 | 697 | 1044 | 0.443188595 | |
| 14 | 52,275,000 | 52,425,000 | 698 | 881 | -0.07912898 | |
| 14 | 52,350,000 | 52,500,000 | 699 | 643 | -0.087682703 | |
| 14 | 52,425,000 | 52,575,000 | 700 | 434 | 0.341719601 | |
| 14 | 52,500,000 | 52,650,000 | 701 | 453 | 0.01063728 | |
| 14 | 52,575,000 | 52,725,000 | 702 | 598 | 0.804217617 | |
| 14 | 52,650,000 | 52,800,000 | 703 | 1024 | 1.062019133 | |
| 14 | 52,725,000 | 52,875,000 | 704 | 1161 | 0.980168482 | |
| 14 | 52,800,000 | 52,950,000 | 705 | 867 | 1.045748008 | CSMD3 |
| 14 | 52,875,000 | 53,025,000 | 706 | 548 | 1.055729159 | CSMD3 |
| 14 | 52,950,000 | 53,100,000 | 707 | 463 | 0.723052902 | CSMD3 |
| 14 | 53,025,000 | 53,175,000 | 708 | 719 | -0.104721704 | |
| 14 | 53,100,000 | 53,250,000 | 709 | 974 | -0.54437563 | |
| 14 | 53,175,000 | 53,325,000 | 710 | 785 | -0.556517371 | |
| 14 | 53,250,000 | 53,400,000 | 711 | 629 | -0.634743815 | |
| 14 | 53,325,000 | 53,475,000 | 712 | 809 | -0.739539779 | |
| 14 | 53,400,000 | 53,550,000 | 713 | 925 | -0.612478559 | |
| 14 | 53,475,000 | 53,625,000 | 714 | 692 | -0.480869307 | |
| 14 | 53,550,000 | 53,700,000 | 715 | 424 | -0.476043917 | |
| 14 | 53,625,000 | 53,775,000 | 716 | 562 | -1.680383517 | |
| 14 | 53,700,000 | 53,850,000 | 717 | 824 | -1.222373765 | |
| 14 | 53,775,000 | 53,925,000 | 718 | 1000 | -0.365527591 | CSMD3 |
| 14 | 53,850,000 | 54,000,000 | 719 | 1180 | -0.130181177 | CSMD3 |
| 14 | 53,925,000 | 54,075,000 | 720 | 1242 | 0.631222881 | CSMD3 |
| 14 | 54,000,000 | 54,150,000 | 721 | 968 | 0.950709024 | CSMD3 |
| 14 | 54,075,000 | 54,225,000 | 722 | 907 | 0.965082287 | CSMD3 |
| 14 | 54,150,000 | 54,300,000 | 723 | 1284 | 1.018559421 | CSMD3 |
| 14 | 54,225,000 | 54,375,000 | 724 | 1691 | 0.771029882 | CSMD3 |
| 14 | 54,300,000 | 54,450,000 | 725 | 1621 | -0.073481849 | CSMD3 |
| 14 | 54,375,000 | 54,525,000 | 726 | 1291 | -0.489163043 | CSMD3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 14 | 54,450,000 | 54,600,000 | 727 | 1193 | 0.172627215 | |
| 14 | 54,525,000 | 54,675,000 | 728 | 1220 | 0.311167276 | |
| 14 | 54,600,000 | 54,750,000 | 729 | 1395 | 0.584850067 | |
| 14 | 54,675,000 | 54,825,000 | 730 | 1416 | 0.302246939 | |
| 14 | 54,750,000 | 54,900,000 | 731 | 1242 | 0.095588744 | |
| 14 | 54,825,000 | 54,975,000 | 732 | 1363 | 0.497893027 | |
| 14 | 54,900,000 | 55,050,000 | 733 | 1116 | 0.168149916 | |
| 14 | 54,975,000 | 55,125,000 | 734 | 1018 | -0.333370907 | |
| 14 | 55,050,000 | 55,200,000 | 735 | 1241 | -0.065795067 | |
| 14 | 55,125,000 | 55,275,000 | 736 | 1576 | 0.501256347 | |
| 14 | 55,200,000 | 55,350,000 | 737 | 1779 | 0.809772262 | |
| 14 | 55,275,000 | 55,425,000 | 738 | 1700 | 0.492134967 | |
| 14 | 55,350,000 | 55,500,000 | 739 | 1877 | 0.476513763 | |
| 14 | 55,425,000 | 55,575,000 | 740 | 1596 | 0.216445702 | |
| 14 | 55,500,000 | 55,650,000 | 741 | 1318 | -0.741538893 | |
| 14 | 55,575,000 | 55,725,000 | 742 | 1399 | -0.471654469 | |
| 14 | 55,650,000 | 55,800,000 | 743 | 1369 | 0.225295251 | |
| 14 | 55,725,000 | 55,875,000 | 744 | 1248 | 0.831655736 | |
| 14 | 55,800,000 | 55,950,000 | 745 | 1276 | 0.452874825 | |
| 14 | 55,875,000 | 56,025,000 | 746 | 1442 | 0.472938796 | |
| 14 | 55,950,000 | 56,100,000 | 747 | 1499 | 0.756778233 | |
| 14 | 56,025,000 | 56,175,000 | 748 | 1559 | 0.411230851 | |
| 14 | 56,100,000 | 56,250,000 | 749 | 1774 | 0.563998104 | |
| 14 | 56,175,000 | 56,325,000 | 750 | 1643 | 0.694405367 | |
| 14 | 56,250,000 | 56,400,000 | 751 | 1503 | 0.150086312 | |
| 14 | 56,325,000 | 56,475,000 | 752 | 1879 | -0.036267441 | |
| 14 | 56,400,000 | 56,550,000 | 753 | 2005 | -0.329874036 | |
| 14 | 56,475,000 | 56,625,000 | 754 | 1840 | -0.912217412 | |
| 14 | 56,550,000 | 56,700,000 | 755 | 1533 | -1.445404073 | KCNV1 |
| 14 | 56,625,000 | 56,775,000 | 756 | 1211 | -0.839777435 | KCNV1 |
| 14 | 56,700,000 | 56,850,000 | 757 | 1097 | 0.432104534 | ENSBTAG00000021747 |
| 14 | 56,775,000 | 56,925,000 | 758 | 724 | 0.582420493 | SYBU,ENSBTAG00000021747 |
| 14 | 56,850,000 | 57,000,000 | 759 | 698 | -1.644281664 | SYBU |
| 14 | 56,925,000 | 57,075,000 | 760 | 684 | -2.082778355 | EBAG9,SYBU |
| 14 | 57,000,000 | 57,150,000 | 761 | 338 | -0.455226694 | EBAG9 |
| 14 | 57,075,000 | 57,225,000 | 762 | 625 | -0.420287726 | PKHD1L1 |
| 14 | 57,150,000 | 57,300,000 | 763 | 707 | -0.32027135 | ENY2,NUDCD1,PKHD1L1 |
| 14 | 57,225,000 | 57,375,000 | 764 | 851 | 0.986882269 | ENY2,NUDCD1 |
| 14 | 57,300,000 | 57,450,000 | 765 | 1436 | 0.788564983 | NUDCD1 |
| 14 | 57,375,000 | 57,525,000 | 766 | 1288 | -0.757031634 | TRHR |
| 14 | 57,450,000 | 57,600,000 | 767 | 955 | -0.97133251 | TRHR |
| 14 | 57,525,000 | 57,675,000 | 768 | 820 | 0.127807354 | |
| 14 | 57,600,000 | 57,750,000 | 769 | 681 | 0.090357308 | |
| 14 | 57,675,000 | 57,825,000 | 770 | 659 | 0.323841049 | TMEM74 |
| 14 | 57,750,000 | 57,900,000 | 771 | 813 | 0.602290467 | TMEM74 |
| 14 | 57,825,000 | 57,975,000 | 772 | 715 | 0.706502437 | |
| 14 | 57,900,000 | 58,050,000 | 773 | 482 | 0.07242301 | |
| 14 | 57,975,000 | 58,125,000 | 774 | 450 | -0.283540378 | |
| 14 | 58,050,000 | 58,200,000 | 775 | 410 | 0.847416058 | EMC2 |
| 14 | 58,125,000 | 58,275,000 | 776 | 436 | 0.893919218 | EMC2 |
| 14 | 58,200,000 | 58,350,000 | 777 | 309 | 0.730358136 | |
| 14 | 58,275,000 | 58,425,000 | 778 | 301 | 0.898733042 | EIF3E |
| 14 | 58,350,000 | 58,500,000 | 779 | 508 | 0.944476373 | EIF3E |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 14 | 58,425,000 | 58,575,000 | 780 | 617 | 0.343795039 | EIF3E,RSPO2 |
| 14 | 58,500,000 | 58,650,000 | 781 | 553 | 0.115092997 | RSPO2 |
| 14 | 58,575,000 | 58,725,000 | 782 | 546 | 0.140237582 | RSPO2 |
| 14 | 58,650,000 | 58,800,000 | 783 | 480 | 0.137638879 | RSPO2 |
| 14 | 58,725,000 | 58,875,000 | 784 | 273 | 0.306907032 | IFT27 |
| 14 | 58,800,000 | 58,950,000 | 785 | 273 | 0.542522284 | IFT27 |
| 14 | 58,875,000 | 59,025,000 | 786 | 352 | 0.498229485 | |
| 14 | 58,950,000 | 59,100,000 | 787 | 350 | 0.75372147 | |
| 14 | 59,025,000 | 59,175,000 | 788 | 279 | 0.755960733 | ANGPT1,ENSBTAG00000008257 |
| 14 | 59,100,000 | 59,250,000 | 789 | 206 | -0.084950632 | ANGPT1,ENSBTAG00000008257 |
| 14 | 59,175,000 | 59,325,000 | 790 | 391 | -2.342894322 | ANGPT1 |
| 14 | 59,250,000 | 59,400,000 | 791 | 732 | -0.820483847 | ANGPT1 |
| 14 | 59,325,000 | 59,475,000 | 792 | 829 | 0.093968259 | ANGPT1 |
| 14 | 59,400,000 | 59,550,000 | 793 | 823 | -0.552726337 | ANGPT1 |
| 14 | 59,475,000 | 59,625,000 | 794 | 763 | 0.069039512 | |
| 14 | 59,550,000 | 59,700,000 | 795 | 568 | -0.614288114 | |
| 14 | 59,625,000 | 59,775,000 | 796 | 660 | -0.222232562 | |
| 14 | 59,700,000 | 59,850,000 | 797 | 627 | 0.434527975 | |
| 14 | 59,775,000 | 59,925,000 | 798 | 658 | -0.77920346 | |
| 14 | 59,850,000 | 60,000,000 | 799 | 778 | -0.709019735 | ABRA |
| 14 | 59,925,000 | 60,075,000 | 800 | 485 | -0.546695695 | ABRA,OXR1 |
| 14 | 60,000,000 | 60,150,000 | 801 | 470 | 0.013630226 | OXR1 |
| 14 | 60,075,000 | 60,225,000 | 802 | 899 | -0.96377621 | OXR1 |
| 14 | 60,150,000 | 60,300,000 | 803 | 801 | -1.040159673 | |
| 14 | 60,225,000 | 60,375,000 | 804 | 474 | 0.495241045 | |
| 14 | 60,300,000 | 60,450,000 | 805 | 505 | 0.575876561 | |
| 14 | 60,375,000 | 60,525,000 | 806 | 562 | 0.345543015 | |
| 14 | 60,450,000 | 60,600,000 | 807 | 807 | 0.486587073 | |
| 14 | 60,525,000 | 60,675,000 | 808 | 1198 | 0.762616575 | |
| 14 | 60,600,000 | 60,750,000 | 809 | 885 | 0.926160779 | |
| 14 | 60,675,000 | 60,825,000 | 810 | 555 | 0.406703569 | |
| 14 | 60,750,000 | 60,900,000 | 811 | 950 | 0.614024763 | |
| 14 | 60,825,000 | 60,975,000 | 812 | 1094 | 0.741540014 | |
| 14 | 60,900,000 | 61,050,000 | 813 | 933 | 0.800166465 | ZFPM2 |
| 14 | 60,975,000 | 61,125,000 | 814 | 714 | 0.393688202 | ZFPM2 |
| 14 | 61,050,000 | 61,200,000 | 815 | 534 | -1.154256285 | ZFPM2 |
| 14 | 61,125,000 | 61,275,000 | 816 | 560 | -0.546505338 | ZFPM2 |
| 14 | 61,200,000 | 61,350,000 | 817 | 904 | 0.682845698 | ZFPM2 |
| 14 | 61,275,000 | 61,425,000 | 818 | 1017 | -0.087289919 | ZFPM2 |
| 14 | 61,350,000 | 61,500,000 | 819 | 650 | -0.72271243 | ZFPM2 |
| 14 | 61,425,000 | 61,575,000 | 820 | 344 | -0.884391919 | ZFPM2 |
| 14 | 61,500,000 | 61,650,000 | 821 | 705 | -0.452438534 | ZFPM2 |
| 14 | 61,575,000 | 61,725,000 | 822 | 783 | -1.152652006 | |
| 14 | 61,650,000 | 61,800,000 | 823 | 714 | -1.356843894 | |
| 14 | 61,725,000 | 61,875,000 | 824 | 762 | -1.552648627 | |
| 14 | 61,800,000 | 61,950,000 | 825 | 492 | -2.797547562 | |
| 14 | 61,875,000 | 62,025,000 | 826 | 514 | -0.940919484 | |
| 14 | 61,950,000 | 62,100,000 | 827 | 505 | -0.58909865 | |
| 14 | 62,025,000 | 62,175,000 | 828 | 376 | -1.347493482 | |
| 14 | 62,100,000 | 62,250,000 | 829 | 230 | -1.486011325 | DCSTAMP,LRP12 |
| 14 | 62,175,000 | 62,325,000 | 830 | 422 | -0.532608437 | DCSTAMP,LRP12 |
| 14 | 62,250,000 | 62,400,000 | 831 | 805 | -1.075166905 | DCSTAMP,DPYS,LRP12 |
| 14 | 62,325,000 | 62,475,000 | 832 | 1022 | -1.210348119 | DCSTAMP,DPYS |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 14 | 62,400,000 | 62,550,000 | 833 | 1204 | -0.803795286 | DCSTAMP,DPYS,RIMS2 |
| 14 | 62,475,000 | 62,625,000 | 834 | 915 | -0.458176697 | RIMS2 |
| 14 | 62,550,000 | 62,700,000 | 835 | 564 | 0.323205666 | RIMS2 |
| 14 | 62,625,000 | 62,775,000 | 836 | 459 | -0.564316055 | RIMS2 |
| 14 | 62,700,000 | 62,850,000 | 837 | 320 | -0.030311115 | RIMS2 |
| 14 | 62,775,000 | 62,925,000 | 838 | 335 | 0.784155921 | RIMS2 |
| 14 | 62,850,000 | 63,000,000 | 839 | 515 | 0.597008676 | RIMS2 |
| 14 | 62,925,000 | 63,075,000 | 840 | 582 | 0.41031472 | |
| 14 | 63,000,000 | 63,150,000 | 841 | 596 | 0.515825987 | |
| 14 | 63,075,000 | 63,225,000 | 842 | 573 | 0.287040459 | |
| 14 | 63,150,000 | 63,300,000 | 843 | 537 | -0.332560632 | DCAF13,SLC25A32 |
| 14 | 63,225,000 | 63,375,000 | 844 | 482 | -0.886138998 | CTHRC1,DCAF13,FZD6,SLC25A32 |
| 14 | 63,300,000 | 63,450,000 | 845 | 530 | -0.479666234 | BAALC,CTHRC1,FZD6 |
| 14 | 63,375,000 | 63,525,000 | 846 | 823 | -0.199015993 | BAALC,FZD6 |
| 14 | 63,450,000 | 63,600,000 | 847 | 1118 | 0.699915632 | ATP6V1C1,BAALC |
| 14 | 63,525,000 | 63,675,000 | 848 | 931 | 0.77178215 | ATP6V1C1,BAALC |
| 14 | 63,600,000 | 63,750,000 | 849 | 630 | 0.187737275 | ATP6V1C1 |
| 14 | 63,675,000 | 63,825,000 | 850 | 579 | 0.541057478 | AZIN1 |
| 14 | 63,750,000 | 63,900,000 | 851 | 500 | 0.52006717 | AZIN1 |
| 14 | 63,825,000 | 63,975,000 | 852 | 547 | 0.02793232 | TIEG1 |
| 14 | 63,900,000 | 64,050,000 | 853 | 775 | 0.544385117 | ODF1,TIEG1 |
| 14 | 63,975,000 | 64,125,000 | 854 | 726 | 0.606150502 | ODF1 |
| 14 | 64,050,000 | 64,200,000 | 855 | 386 | -0.395145793 | UBR5 |
| 14 | 64,125,000 | 64,275,000 | 856 | 304 | 0.201197915 | UBR5 |
| 14 | 64,200,000 | 64,350,000 | 857 | 425 | 0.252847698 | RRM2B,UBR5 |
| 14 | 64,275,000 | 64,425,000 | 858 | 608 | -1.749087394 | RRM2B,UBR5 |
| 14 | 64,350,000 | 64,500,000 | 859 | 702 | -2.359697385 | RRM2B |
| 14 | 64,425,000 | 64,575,000 | 860 | 889 | -0.390804312 | |
| 14 | 64,500,000 | 64,650,000 | 861 | 806 | -0.858982354 | |
| 14 | 64,575,000 | 64,725,000 | 862 | 613 | -5.019619825 | |
| 14 | 64,650,000 | 64,800,000 | 863 | 532 | -3.657947744 | |
| 14 | 64,725,000 | 64,875,000 | 864 | 572 | 0.388209886 | |
| 14 | 64,800,000 | 64,950,000 | 865 | 905 | 0.020535602 | GRHL2,NCALD |
| 14 | 64,875,000 | 65,025,000 | 866 | 1182 | 0.288319328 | GRHL2,NCALD |
| 14 | 64,950,000 | 65,100,000 | 867 | 936 | 0.373274939 | GRHL2 |
| 14 | 65,025,000 | 65,175,000 | 868 | 623 | 0.228342717 | GRHL2 |
| 14 | 65,100,000 | 65,250,000 | 869 | 634 | -0.021674274 | |
| 14 | 65,175,000 | 65,325,000 | 870 | 965 | 0.283238137 | |
| 14 | 65,250,000 | 65,400,000 | 871 | 858 | 0.634738502 | MGC133632 |
| 14 | 65,325,000 | 65,475,000 | 872 | 536 | 0.158843141 | MGC133632 |
| 14 | 65,400,000 | 65,550,000 | 873 | 910 | 0.225880449 | |
| 14 | 65,475,000 | 65,625,000 | 874 | 889 | 0.22164366 | YWHAZ |
| 14 | 65,550,000 | 65,700,000 | 875 | 832 | 0.816307949 | YWHAZ |
| 14 | 65,625,000 | 65,775,000 | 876 | 893 | 0.929556852 | |
| 14 | 65,700,000 | 65,850,000 | 877 | 834 | 0.296502955 | PABPC1 |
| 14 | 65,775,000 | 65,925,000 | 878 | 801 | 0.591547991 | PABPC1,SNX31 |
| 14 | 65,850,000 | 66,000,000 | 879 | 454 | 0.854032922 | ANKRD46,SNX31 |
| 14 | 65,925,000 | 66,075,000 | 880 | 282 | 0.313202641 | ANKRD46,SNX31 |
| 14 | 66,000,000 | 66,150,000 | 881 | 443 | 0.700692375 | ANKRD46 |
| 14 | 66,075,000 | 66,225,000 | 882 | 533 | 0.901144318 | |
| 14 | 66,150,000 | 66,300,000 | 883 | 364 | 0.813863192 | RNF19A |
| 14 | 66,225,000 | 66,375,000 | 884 | 315 | 0.191332792 | RNF19A,SPAG1 |
| 14 | 66,300,000 | 66,450,000 | 885 | 463 | 0.900503562 | FBXO43,SPAG1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 14 | 66,375,000 | 66,525,000 | 886 | 564 | 0.69153074 | FBXO43,RGS22,SPAG1 |
| 14 | 66,450,000 | 66,600,000 | 887 | 505 | 0.266081181 | RGS22 |
| 14 | 66,525,000 | 66,675,000 | 888 | 427 | 0.833826499 | COX6C,RGS22 |
| 14 | 66,600,000 | 66,750,000 | 889 | 413 | -0.173160415 | COX6C |
| 14 | 66,675,000 | 66,825,000 | 890 | 257 | -0.894512395 | |
| 14 | 66,750,000 | 66,900,000 | 891 | 154 | 0.771883372 | |
| 14 | 66,825,000 | 66,975,000 | 892 | 199 | 0.623217607 | |
| 14 | 66,900,000 | 67,050,000 | 893 | 261 | 0.230764303 | ENSBTAG00000012357 |
| 14 | 66,975,000 | 67,125,000 | 894 | 303 | 0.025828631 | ENSBTAG00000012357 |
| 14 | 67,050,000 | 67,200,000 | 895 | 318 | 0.585615184 | ENSBTAG00000012357 |
| 14 | 67,125,000 | 67,275,000 | 896 | 298 | 0.823071432 | ENSBTAG00000012357 |
| 14 | 67,200,000 | 67,350,000 | 897 | 237 | -0.250401593 | ENSBTAG00000012357,ENSBTAG00000047534 |
| 14 | 67,275,000 | 67,425,000 | 898 | 194 | -1.212835746 | ENSBTAG00000026233,ENSBTAG00000047534 |
| 14 | 67,350,000 | 67,500,000 | 899 | 200 | -0.472419227 | ENSBTAG00000026233,ENSBTAG00000047534 |
| 14 | 67,425,000 | 67,575,000 | 900 | 290 | 0.725792386 | OSR2,ENSBTAG00000026233 |
| 14 | 67,500,000 | 67,650,000 | 901 | 377 | 0.768002519 | OSR2 |
| 14 | 67,575,000 | 67,725,000 | 902 | 596 | 0.928895176 | STK3 |
| 14 | 67,650,000 | 67,800,000 | 903 | 575 | 1.074733483 | STK3 |
| 14 | 67,725,000 | 67,875,000 | 904 | 376 | 0.722598646 | STK3 |
| 14 | 67,800,000 | 67,950,000 | 905 | 638 | 0.578163348 | STK3 |
| 14 | 67,875,000 | 68,025,000 | 906 | 960 | 0.046722791 | STK3 |
| 14 | 67,950,000 | 68,100,000 | 907 | 942 | 0.032996775 | KCNS2,STK3 |
| 14 | 68,025,000 | 68,175,000 | 908 | 827 | 0.506594568 | KCNS2,ENSBTAG00000046739 |
| 14 | 68,100,000 | 68,250,000 | 909 | 748 | 0.573205794 | ENSBTAG00000046739 |
| 14 | 68,175,000 | 68,325,000 | 910 | 545 | 0.809529658 | NIPAL2 |
| 14 | 68,250,000 | 68,400,000 | 911 | 526 | 0.94200797 | NIPAL2,POP1 |
| 14 | 68,325,000 | 68,475,000 | 912 | 790 | 1.199581759 | ERICH5,HRSP12,NIPAL2,POP1,RPL30 |
| 14 | 68,400,000 | 68,550,000 | 913 | 1145 | 1.129890054 | ERICH5,HRSP12,MATN2,POP1,RPL30 |
| 14 | 68,475,000 | 68,625,000 | 914 | 1096 | 0.149659325 | MATN2 |
| 14 | 68,550,000 | 68,700,000 | 915 | 970 | -0.160447365 | LAPTM4B,MATN2 |
| 14 | 68,625,000 | 68,775,000 | 916 | 823 | -0.070819298 | LAPTM4B,MATN2 |
| 14 | 68,700,000 | 68,850,000 | 917 | 490 | -0.815148247 | LAPTM4B,MTDH |
| 14 | 68,775,000 | 68,925,000 | 918 | 792 | -0.822772307 | MTDH |
| 14 | 68,850,000 | 69,000,000 | 919 | 1003 | -0.824293251 | MTDH,ENSBTAG00000032432 |
| 14 | 68,925,000 | 69,075,000 | 920 | 762 | -0.448041887 | ENSBTAG00000032432 |
| 14 | 69,000,000 | 69,150,000 | 921 | 496 | -0.702211613 | TSPYL5 |
| 14 | 69,075,000 | 69,225,000 | 922 | 491 | -0.463011831 | HNRNPH3,TSPYL5 |
| 14 | 69,150,000 | 69,300,000 | 923 | 592 | 0.873948438 | CPQ,HNRNPH3 |
| 14 | 69,225,000 | 69,375,000 | 924 | 565 | 0.565269039 | CPQ,ENSBTAG00000047205 |
| 14 | 69,300,000 | 69,450,000 | 925 | 690 | -0.22774337 | CPQ,ENSBTAG00000047205 |
| 14 | 69,375,000 | 69,525,000 | 926 | 660 | -1.147111175 | CPQ |
| 14 | 69,450,000 | 69,600,000 | 927 | 788 | -0.529249373 | CPQ |
| 14 | 69,525,000 | 69,675,000 | 928 | 850 | -0.26741654 | CPQ |
| 14 | 69,600,000 | 69,750,000 | 929 | 826 | -0.246395643 | CPQ |
| 14 | 69,675,000 | 69,825,000 | 930 | 1123 | 0.028494825 | CPQ |
| 14 | 69,750,000 | 69,900,000 | 931 | 1089 | -2.24466106 | CPQ |
| 14 | 69,825,000 | 69,975,000 | 932 | 1073 | -3.440814071 | CPQ,SDC2 |
| 14 | 69,900,000 | 70,050,000 | 933 | 896 | -0.595324518 | SDC2 |
| 14 | 69,975,000 | 70,125,000 | 934 | 876 | 0.420459217 | SDC2 |
| 14 | 70,050,000 | 70,200,000 | 935 | 851 | 1.146249903 | SDC2 |
| 14 | 70,125,000 | 70,275,000 | 936 | 404 | 1.196444731 | PTDSS1 |
| 14 | 70,200,000 | 70,350,000 | 937 | 364 | 1.004187333 | MTERFD1,PTDSS1,UQCRB |
| 14 | 70,275,000 | 70,425,000 | 938 | 392 | 0.777929649 | GDF6,MTERFD1,PTDSS1,UQCRB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 14 | 70,350,000 | 70,500,000 | 939 | 363 | 0.266599431 | GDF6 |
| 14 | 70,425,000 | 70,575,000 | 940 | 336 | 0.096858327 | |
| 14 | 70,500,000 | 70,650,000 | 941 | 401 | -0.46540459 | |
| 14 | 70,575,000 | 70,725,000 | 942 | 415 | -0.467616872 | |
| 14 | 70,650,000 | 70,800,000 | 943 | 270 | -0.665570804 | |
| 14 | 70,725,000 | 70,875,000 | 944 | 342 | -0.255228516 | |
| 14 | 70,800,000 | 70,950,000 | 945 | 528 | 0.720745295 | |
| 14 | 70,875,000 | 71,025,000 | 946 | 537 | 0.810636597 | |
| 14 | 70,950,000 | 71,100,000 | 947 | 610 | -1.659395234 | |
| 14 | 71,025,000 | 71,175,000 | 948 | 777 | -0.972595085 | |
| 14 | 71,100,000 | 71,250,000 | 949 | 750 | 1.038189031 | |
| 14 | 71,175,000 | 71,325,000 | 950 | 541 | 0.559042214 | |
| 14 | 71,250,000 | 71,400,000 | 951 | 590 | 0.349733788 | C8orf37 |
| 14 | 71,325,000 | 71,475,000 | 952 | 744 | -0.585202076 | C8orf37 |
| 14 | 71,400,000 | 71,550,000 | 953 | 890 | -1.029562513 | C8orf37,PLEKHF2 |
| 14 | 71,475,000 | 71,625,000 | 954 | 827 | -0.213365498 | NDUFAF6,PLEKHF2 |
| 14 | 71,550,000 | 71,700,000 | 955 | 566 | -0.561312801 | NDUFAF6 |
| 14 | 71,625,000 | 71,775,000 | 956 | 589 | -0.299114984 | NDUFAF6,TP53INP1 |
| 14 | 71,700,000 | 71,850,000 | 957 | 562 | 0.015615336 | CCNE2,INTS8,TP53INP1 |
| 14 | 71,775,000 | 71,925,000 | 958 | 419 | -0.90893174 | CCNE2,DPY19L4,INTS8 |
| 14 | 71,850,000 | 72,000,000 | 959 | 329 | -0.765110485 | DPY19L4,ESRP1 |
| 14 | 71,925,000 | 72,075,000 | 960 | 366 | -0.807822906 | DPY19L4,ESRP1 |
| 14 | 72,000,000 | 72,150,000 | 961 | 459 | -0.908772737 | ESRP1,KIAA1429 |
| 14 | 72,075,000 | 72,225,000 | 962 | 461 | -0.663316034 | FSBP,KIAA1429,RAD54B |
| 14 | 72,150,000 | 72,300,000 | 963 | 668 | -1.00964973 | FSBP,KIAA1429,RAD54B |
| 14 | 72,225,000 | 72,375,000 | 964 | 588 | -0.709949877 | FSBP,RAD54B |
| 14 | 72,300,000 | 72,450,000 | 965 | 438 | 1.164356988 | CDH17,GEM |
| 14 | 72,375,000 | 72,525,000 | 966 | 599 | 1.276425427 | CDH17,GEM |
| 14 | 72,450,000 | 72,600,000 | 967 | 704 | 0.79828787 | CDH17 |
| 14 | 72,525,000 | 72,675,000 | 968 | 567 | 0.508008403 | CDH17 |
| 14 | 72,600,000 | 72,750,000 | 969 | 322 | 0.958925048 | PDP1,ENSBTAG00000045865 |
| 14 | 72,675,000 | 72,825,000 | 970 | 441 | 1.20390893 | PDP1,TMEM67,ENSBTAG00000045865 |
| 14 | 72,750,000 | 72,900,000 | 971 | 429 | 0.795948347 | FAM92A1,RBM12B,TMEM67 |
| 14 | 72,825,000 | 72,975,000 | 972 | 496 | -0.311053514 | FAM92A1,RBM12B |
| 14 | 72,900,000 | 73,050,000 | 973 | 676 | 0.216993982 | FAM92A1 |
| 14 | 72,975,000 | 73,125,000 | 974 | 477 | 1.014145217 | |
| 14 | 73,050,000 | 73,200,000 | 975 | 332 | 0.925181638 | |
| 14 | 73,125,000 | 73,275,000 | 976 | 529 | -0.456270181 | |
| 14 | 73,200,000 | 73,350,000 | 977 | 914 | -0.158446006 | |
| 14 | 73,275,000 | 73,425,000 | 978 | 951 | 0.189110352 | |
| 14 | 73,350,000 | 73,500,000 | 979 | 737 | -1.510679244 | |
| 14 | 73,425,000 | 73,575,000 | 980 | 550 | -2.556126354 | |
| 14 | 73,500,000 | 73,650,000 | 981 | 479 | 0.56147963 | TRIQQ |
| 14 | 73,575,000 | 73,725,000 | 982 | 546 | 1.022214844 | TRIQQ |
| 14 | 73,650,000 | 73,800,000 | 983 | 615 | 0.922564039 | TRIQQ |
| 14 | 73,725,000 | 73,875,000 | 984 | 637 | 0.787205514 | TRIQQ |
| 14 | 73,800,000 | 73,950,000 | 985 | 834 | 0.345299045 | |
| 14 | 73,875,000 | 74,025,000 | 986 | 1277 | 0.343194503 | |
| 14 | 73,950,000 | 74,100,000 | 987 | 1180 | 0.559723963 | |
| 14 | 74,025,000 | 74,175,000 | 988 | 915 | 0.732230035 | |
| 14 | 74,100,000 | 74,250,000 | 989 | 737 | 0.299227087 | |
| 14 | 74,175,000 | 74,325,000 | 990 | 531 | -0.511100538 | |
| 14 | 74,250,000 | 74,400,000 | 991 | 776 | -0.032404664 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------------|
| 14 | 74,325,000 | 74,475,000 | 992 | 893 | 0.581020448 | |
| 14 | 74,400,000 | 74,550,000 | 993 | 956 | 0.697717108 | |
| 14 | 74,475,000 | 74,625,000 | 994 | 1220 | 0.639382945 | |
| 14 | 74,550,000 | 74,700,000 | 995 | 906 | 0.778800533 | RUNX1T1 |
| 14 | 74,625,000 | 74,775,000 | 996 | 766 | 0.234886194 | RUNX1T1 |
| 14 | 74,700,000 | 74,850,000 | 997 | 928 | -0.644365292 | RUNX1T1 |
| 14 | 74,775,000 | 74,925,000 | 998 | 688 | -0.800436396 | RUNX1T1 |
| 14 | 74,850,000 | 75,000,000 | 999 | 863 | 0.800173682 | |
| 14 | 74,925,000 | 75,075,000 | 1000 | 1083 | 1.046056461 | |
| 14 | 75,000,000 | 75,150,000 | 1001 | 723 | 1.075138856 | |
| 14 | 75,075,000 | 75,225,000 | 1002 | 630 | 0.759404518 | |
| 14 | 75,150,000 | 75,300,000 | 1003 | 792 | 0.180848795 | |
| 14 | 75,225,000 | 75,375,000 | 1004 | 807 | 0.047836885 | |
| 14 | 75,300,000 | 75,450,000 | 1005 | 811 | 0.386323804 | SLC26A7 |
| 14 | 75,375,000 | 75,525,000 | 1006 | 994 | -4.236293435 | SLC26A7 |
| 14 | 75,450,000 | 75,600,000 | 1007 | 1284 | -3.408706604 | LRRRC69,SLC26A7 |
| 14 | 75,525,000 | 75,675,000 | 1008 | 1472 | 0.749924502 | LRRRC69,OTUD6B,SLC26A7 |
| 14 | 75,600,000 | 75,750,000 | 1009 | 1362 | 0.936960678 | LRRRC69,OTUD6B,TMEM55A |
| 14 | 75,675,000 | 75,825,000 | 1010 | 957 | 0.460020934 | TMEM55A |
| 14 | 75,750,000 | 75,900,000 | 1011 | 506 | 0.157911057 | TMEM55A,TMEM64 |
| 14 | 75,825,000 | 75,975,000 | 1012 | 479 | 0.617488702 | TMEM64 |
| 14 | 75,900,000 | 76,050,000 | 1013 | 739 | -0.830332384 | CALB1,DECR1,TMEM64 |
| 14 | 75,975,000 | 76,125,000 | 1014 | 703 | -1.083804596 | CALB1,DECR1,NBN |
| 14 | 76,050,000 | 76,200,000 | 1015 | 561 | 0.674918531 | DECR1,NBN,OSGIN2 |
| 14 | 76,125,000 | 76,275,000 | 1016 | 522 | 1.192842301 | NBN,OSGIN2,RIPK2 |
| 14 | 76,200,000 | 76,350,000 | 1017 | 791 | 1.071252985 | RIPK2 |
| 14 | 76,275,000 | 76,425,000 | 1018 | 1119 | 1.20879351 | |
| 14 | 76,350,000 | 76,500,000 | 1019 | 1117 | 1.024805304 | |
| 14 | 76,425,000 | 76,575,000 | 1020 | 1145 | -0.319279654 | |
| 14 | 76,500,000 | 76,650,000 | 1021 | 1053 | -0.336829306 | |
| 14 | 76,575,000 | 76,725,000 | 1022 | 767 | 0.736031876 | |
| 14 | 76,650,000 | 76,800,000 | 1023 | 871 | 0.252887494 | MMP-16 |
| 14 | 76,725,000 | 76,875,000 | 1024 | 1003 | 0.515281792 | MMP-16,ENSBTAG00000046836 |
| 14 | 76,800,000 | 76,950,000 | 1025 | 686 | 0.815634014 | MMP-16,ENSBTAG00000046836 |
| 14 | 76,875,000 | 77,025,000 | 1026 | 440 | 0.400710459 | MMP-16 |
| 14 | 76,950,000 | 77,100,000 | 1027 | 729 | 0.354574723 | MMP-16 |
| 14 | 77,025,000 | 77,175,000 | 1028 | 783 | 0.289715088 | MMP-16 |
| 14 | 77,100,000 | 77,250,000 | 1029 | 715 | 0.51367288 | MMP-16 |
| 14 | 77,175,000 | 77,325,000 | 1030 | 891 | 0.593186522 | ENSBTAG00000007302 |
| 14 | 77,250,000 | 77,400,000 | 1031 | 920 | -0.12875094 | ENSBTAG00000007302,ENSBTAG00000048317 |
| 14 | 77,325,000 | 77,475,000 | 1032 | 977 | -0.553035179 | ENSBTAG00000048317 |
| 14 | 77,400,000 | 77,550,000 | 1033 | 1054 | -0.124233246 | |
| 14 | 77,475,000 | 77,625,000 | 1034 | 1216 | 0.586491742 | |
| 14 | 77,550,000 | 77,700,000 | 1035 | 1211 | 0.784530692 | |
| 14 | 77,625,000 | 77,775,000 | 1036 | 1049 | 0.234860879 | |
| 14 | 77,700,000 | 77,850,000 | 1037 | 1176 | -0.79948624 | |
| 14 | 77,775,000 | 77,925,000 | 1038 | 1124 | -0.244374441 | |
| 14 | 77,850,000 | 78,000,000 | 1039 | 1046 | 0.864901338 | |
| 14 | 77,925,000 | 78,075,000 | 1040 | 1078 | 0.795539852 | |
| 14 | 78,000,000 | 78,150,000 | 1041 | 839 | 0.549519308 | |
| 14 | 78,075,000 | 78,225,000 | 1042 | 737 | 0.563254943 | |
| 14 | 78,150,000 | 78,300,000 | 1043 | 1226 | 0.658335485 | |
| 14 | 78,225,000 | 78,375,000 | 1044 | 1587 | -0.587420066 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 14 | 78,300,000 | 78,450,000 | 1045 | 1238 | -0.959303783 | CNGB3 |
| 14 | 78,375,000 | 78,525,000 | 1046 | 1147 | 0.443676938 | CNGB3,CPNE3 |
| 14 | 78,450,000 | 78,600,000 | 1047 | 1217 | 0.601109115 | CNGB3,CPNE3,RMDN1,WWP1 |
| 14 | 78,525,000 | 78,675,000 | 1048 | 1165 | 0.899861126 | CPNE3,RMDN1,WWP1,ENSBTAG00000032233 |
| 14 | 78,600,000 | 78,750,000 | 1049 | 1075 | 0.986058695 | WWP1,ENSBTAG00000032233 |
| 14 | 78,675,000 | 78,825,000 | 1050 | 1164 | 0.901890063 | WWP1 |
| 14 | 78,750,000 | 78,900,000 | 1051 | 1279 | 0.900602638 | |
| 14 | 78,825,000 | 78,975,000 | 1052 | 1211 | 0.948446103 | ATP6V0D2 |
| 14 | 78,900,000 | 79,050,000 | 1053 | 1375 | 0.761780955 | ATP6V0D2 |
| 14 | 78,975,000 | 79,125,000 | 1054 | 1380 | 0.421780514 | |
| 14 | 79,050,000 | 79,200,000 | 1055 | 1524 | 0.399074859 | |
| 14 | 79,125,000 | 79,275,000 | 1056 | 1480 | 0.630284094 | |
| 14 | 79,200,000 | 79,350,000 | 1057 | 1076 | 0.772887587 | ENSBTAG00000002851,ENSBTAG00000046121 |
| 14 | 79,275,000 | 79,425,000 | 1058 | 810 | 0.776739007 | CA2,CA3,ENSBTAG00000002851,ENSBTAG00000046121 |
| 14 | 79,350,000 | 79,500,000 | 1059 | 947 | 0.83465961 | CA2,CA3 |
| 14 | 79,425,000 | 79,575,000 | 1060 | 1168 | 0.661233215 | CA1,ENSBTAG00000036116 |
| 14 | 79,500,000 | 79,650,000 | 1061 | 1027 | 0.482336326 | CA1,ENSBTAG00000036116 |
| 14 | 79,575,000 | 79,725,000 | 1062 | 833 | 0.509639469 | CA13,ENSBTAG00000036116 |
| 14 | 79,650,000 | 79,800,000 | 1063 | 749 | 0.677245053 | CA13,E2F5,ENSBTAG00000032227 |
| 14 | 79,725,000 | 79,875,000 | 1064 | 1023 | 1.071742752 | CA13,E2F5,LRRCC1,ENSBTAG00000032227,ENSBTAG00000040461 |
| 14 | 79,800,000 | 79,950,000 | 1065 | 1295 | 0.853468884 | LRRCC1,ENSBTAG00000038798,ENSBTAG00000040461 |
| 14 | 79,875,000 | 80,025,000 | 1066 | 1285 | -0.176191664 | ENSBTAG00000038798,ENSBTAG00000040461 |
| 14 | 79,950,000 | 80,100,000 | 1067 | 1080 | 0.157639562 | RALYL |
| 14 | 80,025,000 | 80,175,000 | 1068 | 892 | 0.506840844 | RALYL |
| 14 | 80,100,000 | 80,250,000 | 1069 | 1304 | 0.171773056 | RALYL |
| 14 | 80,175,000 | 80,325,000 | 1070 | 1578 | 0.363240684 | RALYL |
| 14 | 80,250,000 | 80,400,000 | 1071 | 1658 | 0.511881669 | RALYL |
| 14 | 80,325,000 | 80,475,000 | 1072 | 1568 | 0.06561743 | |
| 14 | 80,400,000 | 80,550,000 | 1073 | 1287 | -0.540112355 | |
| 14 | 80,475,000 | 80,625,000 | 1074 | 1520 | 0.114928433 | |
| 14 | 80,550,000 | 80,700,000 | 1075 | 1464 | 0.563971001 | |
| 14 | 80,625,000 | 80,775,000 | 1076 | 1045 | 0.749219808 | |
| 14 | 80,700,000 | 80,850,000 | 1077 | 1195 | -0.061180408 | |
| 14 | 80,775,000 | 80,925,000 | 1078 | 1363 | 0.017962431 | |
| 14 | 80,850,000 | 81,000,000 | 1079 | 1068 | 0.200684671 | |
| 14 | 80,925,000 | 81,075,000 | 1080 | 1065 | 0.221644692 | |
| 14 | 81,000,000 | 81,150,000 | 1081 | 1295 | 0.724093286 | |
| 14 | 81,075,000 | 81,225,000 | 1082 | 1136 | 0.892773869 | |
| 14 | 81,150,000 | 81,300,000 | 1083 | 709 | 1.214893953 | |
| 14 | 81,225,000 | 81,375,000 | 1084 | 580 | 0.876764555 | |
| 14 | 81,300,000 | 81,450,000 | 1085 | 1026 | 1.11377487 | |
| 14 | 81,375,000 | 81,525,000 | 1086 | 1324 | 1.118321607 | |
| 14 | 81,450,000 | 81,600,000 | 1087 | 1284 | 1.024642747 | |
| 14 | 81,525,000 | 81,675,000 | 1088 | 1250 | 1.058361349 | |
| 14 | 81,600,000 | 81,750,000 | 1089 | 1216 | 1.0555106 | |
| 14 | 81,675,000 | 81,825,000 | 1090 | 1000 | 0.777638026 | |
| 14 | 81,750,000 | 81,900,000 | 1091 | 723 | 0.687297337 | |
| 14 | 81,825,000 | 81,975,000 | 1092 | 958 | 0.798005627 | |
| 14 | 81,900,000 | 82,050,000 | 1093 | 1335 | 0.968064442 | |
| 14 | 81,975,000 | 82,125,000 | 1094 | 1527 | 1.05143942 | |
| 14 | 82,050,000 | 82,200,000 | 1095 | 1438 | 0.048035138 | |
| 14 | 82,125,000 | 82,275,000 | 1096 | 1175 | -0.091027723 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 14 | 82,200,000 | 82,350,000 | 1097 | 1256 | -0.647402262 | |
| 14 | 82,275,000 | 82,425,000 | 1098 | 1305 | -0.718786306 | |
| 14 | 82,350,000 | 82,500,000 | 1099 | 1463 | 0.134080358 | |
| 14 | 82,425,000 | 82,575,000 | 1100 | 1578 | 0.593870161 | |
| 14 | 82,500,000 | 82,650,000 | 1101 | 1370 | -0.250340491 | |
| 14 | 82,575,000 | 82,725,000 | 1102 | 1125 | -1.817789996 | |
| 14 | 82,650,000 | 82,800,000 | 1103 | 705 | -1.046007389 | |
| 14 | 82,725,000 | 82,875,000 | 1104 | 857 | -0.34134544 | |
| 14 | 82,800,000 | 82,950,000 | 1105 | 976 | -0.158331778 | |
| 14 | 82,875,000 | 83,025,000 | 1106 | 528 | 0.564275636 | |
| 14 | 82,950,000 | 83,100,000 | 1107 | 625 | 0.686050937 | |
| 14 | 83,025,000 | 83,175,000 | 1108 | 848 | 0.961463946 | SNX16 |
| 14 | 83,100,000 | 83,250,000 | 1109 | 831 | 0.977692884 | CHMP4C,SNX16,ZFAND1 |
| 14 | 83,175,000 | 83,325,000 | 1110 | 722 | 0.608412653 | CHMP4C,IMPA1,SLC10A5,SNX16,ZFAND1 |
| 14 | 83,250,000 | 83,400,000 | 1111 | 464 | -0.037031749 | ENPP2,IMPA1,SLC10A5,ZFAND1 |
| 14 | 83,325,000 | 83,475,000 | 1112 | 361 | -0.306125366 | ENPP2 |
| 14 | 83,400,000 | 83,550,000 | 1113 | 313 | -0.24543236 | ENPP2 |
| 14 | 83,475,000 | 83,625,000 | 1114 | 383 | -3.421024607 | TAF2 |
| 14 | 83,550,000 | 83,700,000 | 1115 | 589 | -2.041068487 | DEPTOR,DSCC1,TAF2 |
| 14 | 83,625,000 | 83,775,000 | 1116 | 971 | -0.771780936 | DEPTOR,DSCC1,TAF2 |
| 14 | 83,700,000 | 83,850,000 | 1117 | 1527 | -0.893108258 | DEPTOR |
| 14 | 83,775,000 | 83,925,000 | 1118 | 1287 | -0.728030895 | COL14A1,DEPTOR |
| 14 | 83,850,000 | 84,000,000 | 1119 | 1008 | 0.633602928 | COL14A1 |
| 14 | 83,925,000 | 84,075,000 | 1120 | 1268 | 1.016593815 | COL14A1 |
| 14 | 84,000,000 | 84,150,000 | 1121 | 1522 | 1.066485302 | COL14A1,MRPL13 |
| 14 | 84,075,000 | 84,225,000 | 1122 | 1298 | 1.071733218 | COL14A1,MRPL13,MTBP |
| 14 | 84,150,000 | 84,300,000 | 1123 | 1079 | 0.721019611 | MRPL13,MTBP,SNTB1 |
| 14 | 84,225,000 | 84,375,000 | 1124 | 1560 | 0.535359691 | MTBP,SNTB1 |
| 14 | 84,300,000 | 84,450,000 | 1125 | 1512 | 0.473171075 | SNTB1 |
| 14 | 84,375,000 | 84,525,000 | 1126 | 1071 | 0.385831077 | SNTB1 |
| 14 | 84,450,000 | 84,600,000 | 1127 | 796 | 0.438202171 | SNTB1 |
| 14 | 84,525,000 | 84,648,390 | 1128 | 556 | 0.705277114 | |
| 15 | 0 | 150,000 | 1 | 412 | -1.535383355 | |
| 15 | 75,000 | 225,000 | 2 | 644 | -0.92717059 | ENSBTAG00000038319,ENSBTAG00000046228 |
| 15 | 150,000 | 300,000 | 3 | 611 | -0.751579999 | ENSBTAG00000038319,ENSBTAG00000045558,ENSBTAG0000046228 |
| 15 | 225,000 | 375,000 | 4 | 337 | -0.946937033 | ENSBTAG00000040008,ENSBTAG00000045558 |
| 15 | 300,000 | 450,000 | 5 | 362 | -1.373443017 | ENSBTAG00000040008,ENSBTAG00000048221 |
| 15 | 375,000 | 525,000 | 6 | 363 | -1.606559789 | ENSBTAG00000048221 |
| 15 | 450,000 | 600,000 | 7 | 447 | -3.204503008 | OR9G1 |
| 15 | 525,000 | 675,000 | 8 | 771 | -5.230290813 | OR9G1 |
| 15 | 600,000 | 750,000 | 9 | 717 | -5.532223061 | |
| 15 | 675,000 | 825,000 | 10 | 393 | -4.473160126 | ENSBTAG00000045790,ENSBTAG00000046028 |
| 15 | 750,000 | 900,000 | 11 | 326 | -2.600734977 | ENSBTAG00000045790,ENSBTAG00000046028 |
| 15 | 825,000 | 975,000 | 12 | 542 | -0.960948251 | ENSBTAG00000003930,ENSBTAG00000016807 |
| 15 | 900,000 | 1,050,000 | 13 | 585 | -1.156007469 | ENSBTAG00000003930,ENSBTAG00000016807 |
| 15 | 975,000 | 1,125,000 | 14 | 665 | -0.492687602 | ENSBTAG00000013156 |
| 15 | 1,050,000 | 1,200,000 | 15 | 1049 | 0.144571981 | ENSBTAG00000003023,ENSBTAG00000013156,ENSBTAG0000047007 |
| 15 | 1,125,000 | 1,275,000 | 16 | 1269 | 0.085013972 | ENSBTAG00000003023,ENSBTAG00000036025,ENSBTAG0000047007 |
| 15 | 1,200,000 | 1,350,000 | 17 | 1387 | -2.219561478 | ENSBTAG00000036025,ENSBTAG00000046387 |
| 15 | 1,275,000 | 1,425,000 | 18 | 1106 | -2.139188672 | ENSBTAG00000046387 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|-------------------------|
| 15 | 1,350,000 | 1,500,000 | 19 | 880 | -0.068370513 | |
| 15 | 1,425,000 | 1,575,000 | 20 | 591 | -0.207796171 | |
| 15 | 1,500,000 | 1,650,000 | 21 | 430 | -0.321692215 | GPR83,MRE11A |
| 15 | 1,575,000 | 1,725,000 | 22 | 529 | -0.942380968 | GPR83,MRE11A |
| 15 | 1,650,000 | 1,800,000 | 23 | 502 | -0.567700514 | AASDHPPT,ANKRD49,MRE11A |
| 15 | 1,725,000 | 1,875,000 | 24 | 537 | -0.518671281 | AASDHPPT,ANKRD49,KBTBD3 |
| 15 | 1,800,000 | 1,950,000 | 25 | 486 | -0.160839329 | AASDHPPT,KBTBD3 |
| 15 | 1,875,000 | 2,025,000 | 26 | 404 | 0.885890307 | KBTBD3,MSANTD4 |
| 15 | 1,950,000 | 2,100,000 | 27 | 360 | 0.831884406 | GRIA4,MSANTD4 |
| 15 | 2,025,000 | 2,175,000 | 28 | 412 | 0.472905487 | GRIA4 |
| 15 | 2,100,000 | 2,250,000 | 29 | 451 | 0.747340559 | GRIA4 |
| 15 | 2,175,000 | 2,325,000 | 30 | 508 | 1.12532397 | |
| 15 | 2,250,000 | 2,400,000 | 31 | 814 | 0.559277166 | |
| 15 | 2,325,000 | 2,475,000 | 32 | 1084 | 0.636314748 | ENSBTAG00000024639 |
| 15 | 2,400,000 | 2,550,000 | 33 | 1302 | 1.209765956 | ENSBTAG00000024639 |
| 15 | 2,475,000 | 2,625,000 | 34 | 1648 | 1.143151706 | |
| 15 | 2,550,000 | 2,700,000 | 35 | 1709 | 0.957445719 | |
| 15 | 2,625,000 | 2,775,000 | 36 | 1496 | 1.083346889 | |
| 15 | 2,700,000 | 2,850,000 | 37 | 1432 | 1.289152104 | |
| 15 | 2,775,000 | 2,925,000 | 38 | 1046 | 1.102982519 | |
| 15 | 2,850,000 | 3,000,000 | 39 | 940 | -0.221811098 | |
| 15 | 2,925,000 | 3,075,000 | 40 | 1430 | 0.249342269 | |
| 15 | 3,000,000 | 3,150,000 | 41 | 1055 | 1.016408448 | |
| 15 | 3,075,000 | 3,225,000 | 42 | 532 | 0.611476931 | |
| 15 | 3,150,000 | 3,300,000 | 43 | 1193 | -1.340879476 | |
| 15 | 3,225,000 | 3,375,000 | 44 | 1112 | -1.283324985 | |
| 15 | 3,300,000 | 3,450,000 | 45 | 536 | 1.022311675 | |
| 15 | 3,375,000 | 3,525,000 | 46 | 575 | 0.922001488 | CASP13 |
| 15 | 3,450,000 | 3,600,000 | 47 | 908 | 0.581024286 | CASP13 |
| 15 | 3,525,000 | 3,675,000 | 48 | 1626 | 0.299074403 | |
| 15 | 3,600,000 | 3,750,000 | 49 | 1529 | 0.463139291 | ENSBTAG00000006093 |
| 15 | 3,675,000 | 3,825,000 | 50 | 1295 | 0.778076772 | ENSBTAG00000006093 |
| 15 | 3,750,000 | 3,900,000 | 51 | 1240 | 0.391768894 | |
| 15 | 3,825,000 | 3,975,000 | 52 | 1065 | -0.213178202 | |
| 15 | 3,900,000 | 4,050,000 | 53 | 820 | -0.240876815 | |
| 15 | 3,975,000 | 4,125,000 | 54 | 508 | -0.192821171 | |
| 15 | 4,050,000 | 4,200,000 | 55 | 480 | -0.682993396 | |
| 15 | 4,125,000 | 4,275,000 | 56 | 833 | -0.332799223 | |
| 15 | 4,200,000 | 4,350,000 | 57 | 1209 | 0.057773361 | |
| 15 | 4,275,000 | 4,425,000 | 58 | 1399 | 0.352432216 | |
| 15 | 4,350,000 | 4,500,000 | 59 | 1432 | 0.587291808 | |
| 15 | 4,425,000 | 4,575,000 | 60 | 1063 | 0.307223086 | PDGFD |
| 15 | 4,500,000 | 4,650,000 | 61 | 811 | -0.178466649 | DDI1,PDGFD |
| 15 | 4,575,000 | 4,725,000 | 62 | 1144 | 0.689320574 | DDI1,PDGFD |
| 15 | 4,650,000 | 4,800,000 | 63 | 1366 | 0.633698484 | PDGFD |
| 15 | 4,725,000 | 4,875,000 | 64 | 1248 | 0.146469777 | PDGFD |
| 15 | 4,800,000 | 4,950,000 | 65 | 1396 | -0.888066146 | |
| 15 | 4,875,000 | 5,025,000 | 66 | 1471 | -0.249251265 | |
| 15 | 4,950,000 | 5,100,000 | 67 | 1477 | 0.516551353 | |
| 15 | 5,025,000 | 5,175,000 | 68 | 1371 | 0.595774025 | |
| 15 | 5,100,000 | 5,250,000 | 69 | 1065 | 0.65006069 | |
| 15 | 5,175,000 | 5,325,000 | 70 | 1188 | 0.653162609 | ENSBTAG00000047461 |
| 15 | 5,250,000 | 5,400,000 | 71 | 1407 | 0.791464229 | ENSBTAG00000047461 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 15 | 5,325,000 | 5,475,000 | 72 | 1204 | 0.498691316 | ENSBTAG00000047461 |
| 15 | 5,400,000 | 5,550,000 | 73 | 993 | -1.847600903 | ENSBTAG00000047461 |
| 15 | 5,475,000 | 5,625,000 | 74 | 1020 | -1.462902823 | |
| 15 | 5,550,000 | 5,700,000 | 75 | 667 | -0.303278242 | ENSBTAG00000019309 |
| 15 | 5,625,000 | 5,775,000 | 76 | 401 | 0.657418031 | DCUN1D5,ENSBTAG00000019309 |
| 15 | 5,700,000 | 5,850,000 | 77 | 511 | 0.489839742 | DCUN1D5 |
| 15 | 5,775,000 | 5,925,000 | 78 | 689 | -1.006109776 | MMP13 |
| 15 | 5,850,000 | 6,000,000 | 79 | 1044 | -0.08780982 | MMP13 |
| 15 | 5,925,000 | 6,075,000 | 80 | 1416 | 0.756734974 | ENSBTAG00000037768 |
| 15 | 6,000,000 | 6,150,000 | 81 | 1512 | 0.740875959 | MMP1,ENSBTAG00000020007,ENSBTAG00000037768 |
| 15 | 6,075,000 | 6,225,000 | 82 | 1406 | 0.650528043 | MMP1,MMP27,MMP8,ENSBTAG00000020007 |
| 15 | 6,150,000 | 6,300,000 | 83 | 1177 | 0.535823411 | MMP20,MMP27,MMP8,ENSBTAG00000020007 |
| 15 | 6,225,000 | 6,375,000 | 84 | 977 | 0.567487293 | MMP20 |
| 15 | 6,300,000 | 6,450,000 | 85 | 778 | 0.788405614 | MMP20,MMP7 |
| 15 | 6,375,000 | 6,525,000 | 86 | 605 | 0.649253262 | MMP7 |
| 15 | 6,450,000 | 6,600,000 | 87 | 616 | 0.303199904 | BIRC2 |
| 15 | 6,525,000 | 6,675,000 | 88 | 431 | 0.279399784 | BIRC2,BIRC3 |
| 15 | 6,600,000 | 6,750,000 | 89 | 326 | 0.106861975 | BIRC2,BIRC3,ENSBTAG00000047406 |
| 15 | 6,675,000 | 6,825,000 | 90 | 422 | -2.051958333 | ENSBTAG00000039307,ENSBTAG00000047406 |
| 15 | 6,750,000 | 6,900,000 | 91 | 453 | -2.576657936 | ENSBTAG00000039307,ENSBTAG00000047406 |
| 15 | 6,825,000 | 6,975,000 | 92 | 355 | -1.467420818 | ENSBTAG00000015309,ENSBTAG00000047406 |
| 15 | 6,900,000 | 7,050,000 | 93 | 365 | -0.119942989 | KIAA1377,ENSBTAG00000015309 |
| 15 | 6,975,000 | 7,125,000 | 94 | 403 | 0.170146816 | KIAA1377 |
| 15 | 7,050,000 | 7,200,000 | 95 | 589 | -0.526615341 | ANGPTL5,KIAA1377 |
| 15 | 7,125,000 | 7,275,000 | 96 | 991 | -0.447599701 | ANGPTL5 |
| 15 | 7,200,000 | 7,350,000 | 97 | 1129 | -0.580483152 | |
| 15 | 7,275,000 | 7,425,000 | 98 | 908 | -0.898809956 | |
| 15 | 7,350,000 | 7,500,000 | 99 | 1072 | -0.962073939 | |
| 15 | 7,425,000 | 7,575,000 | 100 | 1618 | -0.789129415 | |
| 15 | 7,500,000 | 7,650,000 | 101 | 1750 | -0.456043712 | |
| 15 | 7,575,000 | 7,725,000 | 102 | 1458 | -0.618711532 | TRPC6 |
| 15 | 7,650,000 | 7,800,000 | 103 | 854 | -0.476375729 | TRPC6 |
| 15 | 7,725,000 | 7,875,000 | 104 | 429 | 0.104193291 | |
| 15 | 7,800,000 | 7,950,000 | 105 | 375 | 0.501859765 | |
| 15 | 7,875,000 | 8,025,000 | 106 | 546 | 0.917165431 | |
| 15 | 7,950,000 | 8,100,000 | 107 | 713 | 0.679163381 | |
| 15 | 8,025,000 | 8,175,000 | 108 | 677 | 0.270558981 | PGR |
| 15 | 8,100,000 | 8,250,000 | 109 | 873 | 0.849000817 | PGR |
| 15 | 8,175,000 | 8,325,000 | 110 | 922 | 0.545787619 | FLJ32810,PGR |
| 15 | 8,250,000 | 8,400,000 | 111 | 920 | -1.582289377 | FLJ32810 |
| 15 | 8,325,000 | 8,475,000 | 112 | 794 | -1.331572168 | FLJ32810 |
| 15 | 8,400,000 | 8,550,000 | 113 | 391 | -0.136495105 | |
| 15 | 8,475,000 | 8,625,000 | 114 | 445 | -0.869545762 | |
| 15 | 8,550,000 | 8,700,000 | 115 | 474 | -0.848254436 | |
| 15 | 8,625,000 | 8,775,000 | 116 | 368 | -0.669040578 | |
| 15 | 8,700,000 | 8,850,000 | 117 | 465 | -0.692394886 | |
| 15 | 8,775,000 | 8,925,000 | 118 | 709 | 0.03700848 | ENSBTAG00000047425 |
| 15 | 8,850,000 | 9,000,000 | 119 | 1002 | 0.288227353 | ENSBTAG00000047425 |
| 15 | 8,925,000 | 9,075,000 | 120 | 1024 | -0.314042617 | |
| 15 | 9,000,000 | 9,150,000 | 121 | 1169 | -1.132363164 | |
| 15 | 9,075,000 | 9,225,000 | 122 | 1399 | -0.899238843 | |
| 15 | 9,150,000 | 9,300,000 | 123 | 1119 | -0.020387527 | |
| 15 | 9,225,000 | 9,375,000 | 124 | 973 | -0.727355552 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------|
| 15 | 9,300,000 | 9,450,000 | 125 | 1306 | -1.06110081 | |
| 15 | 9,375,000 | 9,525,000 | 126 | 1184 | 0.105379669 | |
| 15 | 9,450,000 | 9,600,000 | 127 | 886 | 1.080815722 | |
| 15 | 9,525,000 | 9,675,000 | 128 | 988 | -0.090627403 | CNTN5 |
| 15 | 9,600,000 | 9,750,000 | 129 | 932 | -0.044698154 | CNTN5 |
| 15 | 9,675,000 | 9,825,000 | 130 | 825 | -1.036794597 | CNTN5 |
| 15 | 9,750,000 | 9,900,000 | 131 | 1002 | -4.018045662 | |
| 15 | 9,825,000 | 9,975,000 | 132 | 888 | -1.630586795 | |
| 15 | 9,900,000 | 10,050,000 | 133 | 710 | 1.223327898 | |
| 15 | 9,975,000 | 10,125,000 | 134 | 625 | 1.228124805 | |
| 15 | 10,050,000 | 10,200,000 | 135 | 642 | 1.119434176 | |
| 15 | 10,125,000 | 10,275,000 | 136 | 1097 | 1.024313916 | |
| 15 | 10,200,000 | 10,350,000 | 137 | 1198 | 1.030773702 | |
| 15 | 10,275,000 | 10,425,000 | 138 | 643 | 1.112077694 | |
| 15 | 10,350,000 | 10,500,000 | 139 | 255 | 0.90176755 | |
| 15 | 10,425,000 | 10,575,000 | 140 | 319 | 0.953292625 | |
| 15 | 10,500,000 | 10,650,000 | 141 | 444 | 1.057215587 | |
| 15 | 10,575,000 | 10,725,000 | 142 | 498 | 1.204404643 | |
| 15 | 10,650,000 | 10,800,000 | 143 | 496 | 1.085464464 | |
| 15 | 10,725,000 | 10,875,000 | 144 | 459 | 0.875622201 | |
| 15 | 10,800,000 | 10,950,000 | 145 | 526 | 0.299393045 | |
| 15 | 10,875,000 | 11,025,000 | 146 | 660 | 0.138295203 | |
| 15 | 10,950,000 | 11,100,000 | 147 | 653 | 0.543651446 | |
| 15 | 11,025,000 | 11,175,000 | 148 | 893 | 0.159482546 | |
| 15 | 11,100,000 | 11,250,000 | 149 | 1020 | -0.110302708 | |
| 15 | 11,175,000 | 11,325,000 | 150 | 883 | -0.026357154 | |
| 15 | 11,250,000 | 11,400,000 | 151 | 649 | 0.290564233 | |
| 15 | 11,325,000 | 11,475,000 | 152 | 697 | 0.821323203 | |
| 15 | 11,400,000 | 11,550,000 | 153 | 1532 | 0.514380325 | |
| 15 | 11,475,000 | 11,625,000 | 154 | 1818 | 0.133952759 | |
| 15 | 11,550,000 | 11,700,000 | 155 | 1377 | 0.009611724 | |
| 15 | 11,625,000 | 11,775,000 | 156 | 821 | 0.259120912 | |
| 15 | 11,700,000 | 11,850,000 | 157 | 543 | 0.240792467 | |
| 15 | 11,775,000 | 11,925,000 | 158 | 729 | 0.7262833 | |
| 15 | 11,850,000 | 12,000,000 | 159 | 780 | 0.973249391 | |
| 15 | 11,925,000 | 12,075,000 | 160 | 939 | -0.319795377 | |
| 15 | 12,000,000 | 12,150,000 | 161 | 1417 | -0.724499099 | |
| 15 | 12,075,000 | 12,225,000 | 162 | 1210 | -0.866066099 | |
| 15 | 12,150,000 | 12,300,000 | 163 | 695 | -0.363335687 | |
| 15 | 12,225,000 | 12,375,000 | 164 | 826 | -0.307862375 | |
| 15 | 12,300,000 | 12,450,000 | 165 | 723 | -0.767475743 | |
| 15 | 12,375,000 | 12,525,000 | 166 | 574 | 0.276214513 | |
| 15 | 12,450,000 | 12,600,000 | 167 | 1023 | 0.447188493 | |
| 15 | 12,525,000 | 12,675,000 | 168 | 994 | 0.670942326 | |
| 15 | 12,600,000 | 12,750,000 | 169 | 622 | 0.543884904 | |
| 15 | 12,675,000 | 12,825,000 | 170 | 978 | -0.064749645 | |
| 15 | 12,750,000 | 12,900,000 | 171 | 1034 | 0.189130225 | |
| 15 | 12,825,000 | 12,975,000 | 172 | 708 | 1.027322443 | |
| 15 | 12,900,000 | 13,050,000 | 173 | 764 | 0.878598386 | |
| 15 | 12,975,000 | 13,125,000 | 174 | 738 | 0.437573783 | |
| 15 | 13,050,000 | 13,200,000 | 175 | 568 | 0.454792631 | |
| 15 | 13,125,000 | 13,275,000 | 176 | 516 | 0.960088076 | |
| 15 | 13,200,000 | 13,350,000 | 177 | 598 | 1.101692235 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 15 | 13,275,000 | 13,425,000 | 178 | 902 | -4.770301508 | |
| 15 | 13,350,000 | 13,500,000 | 179 | 863 | -4.675770575 | |
| 15 | 13,425,000 | 13,575,000 | 180 | 586 | 1.123084161 | |
| 15 | 13,500,000 | 13,650,000 | 181 | 636 | 0.772872852 | ENSBTAG00000034724 |
| 15 | 13,575,000 | 13,725,000 | 182 | 544 | 0.14235696 | ENSBTAG00000034724 |
| 15 | 13,650,000 | 13,800,000 | 183 | 355 | -0.410503425 | |
| 15 | 13,725,000 | 13,875,000 | 184 | 309 | -0.788983682 | |
| 15 | 13,800,000 | 13,950,000 | 185 | 356 | 0.222345759 | |
| 15 | 13,875,000 | 14,025,000 | 186 | 497 | 0.88367204 | |
| 15 | 13,950,000 | 14,100,000 | 187 | 630 | 0.092469787 | |
| 15 | 14,025,000 | 14,175,000 | 188 | 672 | -1.240590148 | CCDC82,JRKL |
| 15 | 14,100,000 | 14,250,000 | 189 | 542 | -1.109983474 | CCDC82,JRKL |
| 15 | 14,175,000 | 14,325,000 | 190 | 375 | -1.20857236 | |
| 15 | 14,250,000 | 14,400,000 | 191 | 322 | -0.172487615 | |
| 15 | 14,325,000 | 14,475,000 | 192 | 497 | 0.282011186 | MAML2 |
| 15 | 14,400,000 | 14,550,000 | 193 | 644 | -0.48764924 | MAML2 |
| 15 | 14,475,000 | 14,625,000 | 194 | 639 | -0.983834453 | MAML2 |
| 15 | 14,550,000 | 14,700,000 | 195 | 408 | -0.273018868 | MAML2,MTMR2 |
| 15 | 14,625,000 | 14,775,000 | 196 | 397 | -0.011810971 | CEP57,FAM76B,MTMR2 |
| 15 | 14,700,000 | 14,850,000 | 197 | 428 | 0.103372712 | CEP57,FAM76B,MTMR2 |
| 15 | 14,775,000 | 14,925,000 | 198 | 318 | 0.020752418 | FAM76B |
| 15 | 14,850,000 | 15,000,000 | 199 | 478 | -0.229534496 | |
| 15 | 14,925,000 | 15,075,000 | 200 | 527 | 0.096340367 | |
| 15 | 15,000,000 | 15,150,000 | 201 | 721 | -0.135157072 | |
| 15 | 15,075,000 | 15,225,000 | 202 | 879 | -0.798643008 | |
| 15 | 15,150,000 | 15,300,000 | 203 | 793 | -0.728874056 | |
| 15 | 15,225,000 | 15,375,000 | 204 | 760 | 0.501585189 | |
| 15 | 15,300,000 | 15,450,000 | 205 | 677 | 0.73764683 | |
| 15 | 15,375,000 | 15,525,000 | 206 | 447 | 0.75411032 | SESN3 |
| 15 | 15,450,000 | 15,600,000 | 207 | 833 | 0.79293194 | ENDOD1,SESN3 |
| 15 | 15,525,000 | 15,675,000 | 208 | 1332 | 0.763551322 | ENDOD1,ENSBTAG00000001704 |
| 15 | 15,600,000 | 15,750,000 | 209 | 985 | 0.784412319 | CWC15,ENDOD1,ENSBTAG00000001704 |
| 15 | 15,675,000 | 15,825,000 | 210 | 841 | 0.83806555 | AMOTL1,CWC15,ENSBTAG00000001704 |
| 15 | 15,750,000 | 15,900,000 | 211 | 679 | 0.965431065 | AMOTL1 |
| 15 | 15,825,000 | 15,975,000 | 212 | 611 | -0.691260911 | AMOTL1 |
| 15 | 15,900,000 | 16,050,000 | 213 | 940 | -0.678583347 | |
| 15 | 15,975,000 | 16,125,000 | 214 | 1171 | 0.552514594 | PIWIL4 |
| 15 | 16,050,000 | 16,200,000 | 215 | 1372 | 0.734805911 | PIWIL4 |
| 15 | 16,125,000 | 16,275,000 | 216 | 1205 | 0.708326709 | FUT4,MGC137061,PIWIL4 |
| 15 | 16,200,000 | 16,350,000 | 217 | 1106 | -0.073139357 | CWF19L2,FUT4,MGC137061 |
| 15 | 16,275,000 | 16,425,000 | 218 | 1149 | -1.497642245 | CWF19L2,MGC137061 |
| 15 | 16,350,000 | 16,500,000 | 219 | 874 | -2.586886653 | CWF19L2 |
| 15 | 16,425,000 | 16,575,000 | 220 | 788 | -1.129184898 | CWF19L2 |
| 15 | 16,500,000 | 16,650,000 | 221 | 696 | 0.316850867 | GUCY1A2 |
| 15 | 16,575,000 | 16,725,000 | 222 | 666 | 0.251541191 | GUCY1A2 |
| 15 | 16,650,000 | 16,800,000 | 223 | 722 | 0.52924873 | GUCY1A2 |
| 15 | 16,725,000 | 16,875,000 | 224 | 580 | 0.810705118 | GUCY1A2 |
| 15 | 16,800,000 | 16,950,000 | 225 | 1416 | 1.199549116 | GUCY1A2 |
| 15 | 16,875,000 | 17,025,000 | 226 | 1882 | 1.24051625 | GUCY1A2 |
| 15 | 16,950,000 | 17,100,000 | 227 | 960 | 1.185596853 | GUCY1A2 |
| 15 | 17,025,000 | 17,175,000 | 228 | 438 | 0.947689848 | GUCY1A2 |
| 15 | 17,100,000 | 17,250,000 | 229 | 446 | 0.785432851 | ALKBH8,GUCY1A2 |
| 15 | 17,175,000 | 17,325,000 | 230 | 420 | 0.364316345 | ALKBH8 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 15 | 17,250,000 | 17,400,000 | 231 | 377 | 0.430565353 | ALKBH8,ELMOD1 |
| 15 | 17,325,000 | 17,475,000 | 232 | 599 | 0.826273934 | ELMOD1 |
| 15 | 17,400,000 | 17,550,000 | 233 | 1370 | 0.50168139 | ELMOD1 |
| 15 | 17,475,000 | 17,625,000 | 234 | 1539 | 0.35016819 | |
| 15 | 17,550,000 | 17,700,000 | 235 | 1145 | 0.338045864 | ENSBTAG00000003661 |
| 15 | 17,625,000 | 17,775,000 | 236 | 1160 | 0.312452419 | RAB39,ENSBTAG00000003661 |
| 15 | 17,700,000 | 17,850,000 | 237 | 786 | -0.129397019 | RAB39 |
| 15 | 17,775,000 | 17,925,000 | 238 | 366 | -0.439275016 | CUL5,RAB39 |
| 15 | 17,850,000 | 18,000,000 | 239 | 406 | 0.665242311 | ACAT1,CUL5 |
| 15 | 17,925,000 | 18,075,000 | 240 | 460 | -1.973023298 | ACAT1,CUL5,NPAT |
| 15 | 18,000,000 | 18,150,000 | 241 | 463 | -3.021039525 | ACAT1,ATM,NPAT |
| 15 | 18,075,000 | 18,225,000 | 242 | 403 | -1.766044099 | ATM,NPAT |
| 15 | 18,150,000 | 18,300,000 | 243 | 365 | -0.942561396 | ATM |
| 15 | 18,225,000 | 18,375,000 | 244 | 777 | 0.458534807 | ATM |
| 15 | 18,300,000 | 18,450,000 | 245 | 942 | 0.755629378 | KDELC2 |
| 15 | 18,375,000 | 18,525,000 | 246 | 792 | 0.4835752 | EXPH5,KDELC2 |
| 15 | 18,450,000 | 18,600,000 | 247 | 638 | 0.006497369 | EXPH5,KDELC2 |
| 15 | 18,525,000 | 18,675,000 | 248 | 860 | -2.136286699 | DDX10 |
| 15 | 18,600,000 | 18,750,000 | 249 | 1085 | -2.073387915 | DDX10 |
| 15 | 18,675,000 | 18,825,000 | 250 | 1136 | -0.383131848 | DDX10 |
| 15 | 18,750,000 | 18,900,000 | 251 | 971 | -0.980400793 | DDX10 |
| 15 | 18,825,000 | 18,975,000 | 252 | 715 | -1.444720319 | DDX10 |
| 15 | 18,900,000 | 19,050,000 | 253 | 1156 | -1.238497305 | DDX10 |
| 15 | 18,975,000 | 19,125,000 | 254 | 1190 | 0.13026591 | |
| 15 | 19,050,000 | 19,200,000 | 255 | 1107 | 0.830480711 | |
| 15 | 19,125,000 | 19,275,000 | 256 | 1416 | 0.148052347 | |
| 15 | 19,200,000 | 19,350,000 | 257 | 1709 | 0.348435049 | |
| 15 | 19,275,000 | 19,425,000 | 258 | 1286 | 0.782978711 | |
| 15 | 19,350,000 | 19,500,000 | 259 | 704 | 0.893013086 | |
| 15 | 19,425,000 | 19,575,000 | 260 | 715 | 0.936318206 | |
| 15 | 19,500,000 | 19,650,000 | 261 | 726 | 1.236047635 | C11orf87 |
| 15 | 19,575,000 | 19,725,000 | 262 | 1024 | 1.262943253 | C11orf87 |
| 15 | 19,650,000 | 19,800,000 | 263 | 1197 | 1.259920725 | |
| 15 | 19,725,000 | 19,875,000 | 264 | 1059 | 1.213113252 | |
| 15 | 19,800,000 | 19,950,000 | 265 | 1082 | -0.155265545 | |
| 15 | 19,875,000 | 20,025,000 | 266 | 771 | -0.915345272 | |
| 15 | 19,950,000 | 20,100,000 | 267 | 587 | 0.252721731 | |
| 15 | 20,025,000 | 20,175,000 | 268 | 626 | 0.716484515 | |
| 15 | 20,100,000 | 20,250,000 | 269 | 543 | 0.785852885 | |
| 15 | 20,175,000 | 20,325,000 | 270 | 596 | 0.151768952 | |
| 15 | 20,250,000 | 20,400,000 | 271 | 1085 | 0.257604971 | |
| 15 | 20,325,000 | 20,475,000 | 272 | 920 | 0.409601184 | |
| 15 | 20,400,000 | 20,550,000 | 273 | 452 | -0.066195662 | ZC3H12C |
| 15 | 20,475,000 | 20,625,000 | 274 | 750 | 0.317404661 | RDX,ZC3H12C,ENSBTAG00000047384 |
| 15 | 20,550,000 | 20,700,000 | 275 | 1069 | 0.228224609 | RDX,ENSBTAG00000047384 |
| 15 | 20,625,000 | 20,775,000 | 276 | 1172 | 0.248897299 | FDX1,RDX |
| 15 | 20,700,000 | 20,850,000 | 277 | 988 | 0.603678685 | FDX1 |
| 15 | 20,775,000 | 20,925,000 | 278 | 870 | 0.191844977 | ARHGAP20,FDX1 |
| 15 | 20,850,000 | 21,000,000 | 279 | 687 | -0.206361277 | ARHGAP20 |
| 15 | 20,925,000 | 21,075,000 | 280 | 758 | 1.011602355 | ARHGAP20 |
| 15 | 21,000,000 | 21,150,000 | 281 | 911 | 0.762357555 | ARHGAP20 |
| 15 | 21,075,000 | 21,225,000 | 282 | 871 | 0.249631586 | |
| 15 | 21,150,000 | 21,300,000 | 283 | 992 | 0.366695502 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 21,225,000 | 21,375,000 | 284 | 838 | 0.573561973 | |
| 15 | 21,300,000 | 21,450,000 | 285 | 621 | 0.065596819 | |
| 15 | 21,375,000 | 21,525,000 | 286 | 534 | -0.442802441 | |
| 15 | 21,450,000 | 21,600,000 | 287 | 661 | 0.158331867 | |
| 15 | 21,525,000 | 21,675,000 | 288 | 804 | 0.182042893 | |
| 15 | 21,600,000 | 21,750,000 | 289 | 1086 | -0.108250674 | |
| 15 | 21,675,000 | 21,825,000 | 290 | 1261 | 0.407316084 | |
| 15 | 21,750,000 | 21,900,000 | 291 | 1158 | 0.953267586 | C11orf53 |
| 15 | 21,825,000 | 21,975,000 | 292 | 1160 | 0.968893602 | C11orf53,POU2AF1 |
| 15 | 21,900,000 | 22,050,000 | 293 | 1156 | 1.130405057 | POU2AF1 |
| 15 | 21,975,000 | 22,125,000 | 294 | 1416 | 0.945098256 | BTG4,POU2AF1 |
| 15 | 22,050,000 | 22,200,000 | 295 | 1106 | 0.822928814 | BTG4,LAYN,MGC133619 |
| 15 | 22,125,000 | 22,275,000 | 296 | 575 | 0.790476353 | LAYN,MGC133619,SIK2 |
| 15 | 22,200,000 | 22,350,000 | 297 | 477 | 0.05106436 | SIK2 |
| 15 | 22,275,000 | 22,425,000 | 298 | 427 | -2.754876048 | PPP2R1B,SIK2 |
| 15 | 22,350,000 | 22,500,000 | 299 | 573 | -1.434166312 | ALG9,PPP2R1B,SIK2 |
| 15 | 22,425,000 | 22,575,000 | 300 | 746 | 0.180356483 | ALG9,CRYAB,FDXACB1,HSPB2,MGC134087,ENSBTAG0000045821 |
| 15 | 22,500,000 | 22,650,000 | 301 | 1078 | 0.414392407 | ALG9,C11ORF52,CRYAB,DIXDC1,FDXACB1,HSPB2,MGC134087,ENSBTAG00000045821 |
| 15 | 22,575,000 | 22,725,000 | 302 | 1096 | 0.66060572 | C11ORF52,DIXDC1,MGC143285,PIH1D2,SDHD,TIMM8B,ENSBTAG00000010709 |
| 15 | 22,650,000 | 22,800,000 | 303 | 913 | 0.76501063 | DIXDC1,MGC143285,PIH1D2,SDHD,TIMM8B,ENSBTAG00000010709 |
| 15 | 22,725,000 | 22,875,000 | 304 | 889 | 0.748513873 | BCO2,IL18,SDHD,TEX12 |
| 15 | 22,800,000 | 22,950,000 | 305 | 869 | 0.278351376 | BCO2,IL18,PTS,TEX12 |
| 15 | 22,875,000 | 23,025,000 | 306 | 1093 | 0.032126646 | BCO2,PLET1,PTS |
| 15 | 22,950,000 | 23,100,000 | 307 | 1455 | -0.077297319 | PLET1 |
| 15 | 23,025,000 | 23,175,000 | 308 | 1466 | 0.067626842 | |
| 15 | 23,100,000 | 23,250,000 | 309 | 1361 | 0.592447475 | |
| 15 | 23,175,000 | 23,325,000 | 310 | 1480 | 0.772645461 | |
| 15 | 23,250,000 | 23,400,000 | 311 | 1022 | 0.300077336 | |
| 15 | 23,325,000 | 23,475,000 | 312 | 596 | 0.272323046 | |
| 15 | 23,400,000 | 23,550,000 | 313 | 905 | 0.964242812 | |
| 15 | 23,475,000 | 23,625,000 | 314 | 1082 | 0.782456974 | |
| 15 | 23,550,000 | 23,700,000 | 315 | 758 | 0.309018854 | |
| 15 | 23,625,000 | 23,775,000 | 316 | 796 | 0.492641316 | |
| 15 | 23,700,000 | 23,850,000 | 317 | 879 | 0.629010092 | |
| 15 | 23,775,000 | 23,925,000 | 318 | 597 | 0.64177362 | |
| 15 | 23,850,000 | 24,000,000 | 319 | 714 | 0.270596786 | |
| 15 | 23,925,000 | 24,075,000 | 320 | 1017 | 0.301488415 | |
| 15 | 24,000,000 | 24,150,000 | 321 | 900 | 0.2909669 | NCAM1 |
| 15 | 24,075,000 | 24,225,000 | 322 | 790 | 0.504090699 | NCAM1,TTC12 |
| 15 | 24,150,000 | 24,300,000 | 323 | 668 | 0.607923765 | ANKK1,NCAM1,TTC12 |
| 15 | 24,225,000 | 24,375,000 | 324 | 390 | 0.211484256 | ANKK1,DRD2,TTC12 |
| 15 | 24,300,000 | 24,450,000 | 325 | 635 | -0.201166794 | DRD2 |
| 15 | 24,375,000 | 24,525,000 | 326 | 944 | -0.602268405 | |
| 15 | 24,450,000 | 24,600,000 | 327 | 889 | -0.187525413 | TMPRSS5 |
| 15 | 24,525,000 | 24,675,000 | 328 | 707 | 0.586374021 | CLDN25,TMPRSS5,USP28,ZW10 |
| 15 | 24,600,000 | 24,750,000 | 329 | 509 | 0.215561132 | CLDN25,USP28,ZW10 |
| 15 | 24,675,000 | 24,825,000 | 330 | 554 | -0.744932925 | HTR3B,USP28 |
| 15 | 24,750,000 | 24,900,000 | 331 | 623 | -0.37664347 | HTR3A,HTR3B |
| 15 | 24,825,000 | 24,975,000 | 332 | 416 | 0.44518475 | HTR3A,ZBTB16,ENSBTAG00000046254 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 24,900,000 | 25,050,000 | 333 | 478 | 0.608594415 | ZBTB16,ENSBTAG00000046254 |
| 15 | 24,975,000 | 25,125,000 | 334 | 663 | 0.90172337 | ZBTB16 |
| 15 | 25,050,000 | 25,200,000 | 335 | 955 | 0.676853234 | ZBTB16,ENSBTAG00000008564 |
| 15 | 25,125,000 | 25,275,000 | 336 | 915 | 0.190459337 | C15H11ORF71,RBM7,ENSBTAG00000008564 |
| 15 | 25,200,000 | 25,350,000 | 337 | 576 | -0.802213221 | C15H11ORF71,RBM7,REXO2 |
| 15 | 25,275,000 | 25,425,000 | 338 | 488 | -0.652502537 | NXPE4,REXO2 |
| 15 | 25,350,000 | 25,500,000 | 339 | 316 | -0.217623596 | NXPE4 |
| 15 | 25,425,000 | 25,575,000 | 340 | 437 | -0.829131916 | NXPE2,NXPE4 |
| 15 | 25,500,000 | 25,650,000 | 341 | 962 | -1.693516258 | NXPE2 |
| 15 | 25,575,000 | 25,725,000 | 342 | 1076 | -2.068905363 | |
| 15 | 25,650,000 | 25,800,000 | 343 | 636 | -2.134529711 | |
| 15 | 25,725,000 | 25,875,000 | 344 | 719 | -1.361495345 | |
| 15 | 25,800,000 | 25,950,000 | 345 | 1083 | -0.959481747 | |
| 15 | 25,875,000 | 26,025,000 | 346 | 974 | -0.406128589 | |
| 15 | 25,950,000 | 26,100,000 | 347 | 889 | -0.668949269 | |
| 15 | 26,025,000 | 26,175,000 | 348 | 667 | -0.709555586 | CADM1 |
| 15 | 26,100,000 | 26,250,000 | 349 | 575 | -0.088887271 | CADM1 |
| 15 | 26,175,000 | 26,325,000 | 350 | 751 | -0.679163694 | CADM1 |
| 15 | 26,250,000 | 26,400,000 | 351 | 746 | -0.819075807 | CADM1 |
| 15 | 26,325,000 | 26,475,000 | 352 | 552 | -0.613012117 | CADM1 |
| 15 | 26,400,000 | 26,550,000 | 353 | 643 | 0.222328326 | CADM1 |
| 15 | 26,475,000 | 26,625,000 | 354 | 789 | 0.58023638 | |
| 15 | 26,550,000 | 26,700,000 | 355 | 929 | 0.129779995 | |
| 15 | 26,625,000 | 26,775,000 | 356 | 881 | 0.089579798 | |
| 15 | 26,700,000 | 26,850,000 | 357 | 604 | 0.757041743 | |
| 15 | 26,775,000 | 26,925,000 | 358 | 561 | 0.91677747 | |
| 15 | 26,850,000 | 27,000,000 | 359 | 706 | 0.718065734 | |
| 15 | 26,925,000 | 27,075,000 | 360 | 772 | 0.697758695 | |
| 15 | 27,000,000 | 27,150,000 | 361 | 518 | 0.669516862 | |
| 15 | 27,075,000 | 27,225,000 | 362 | 815 | 0.906866659 | |
| 15 | 27,150,000 | 27,300,000 | 363 | 1245 | 0.839724102 | |
| 15 | 27,225,000 | 27,375,000 | 364 | 1106 | 0.696424326 | |
| 15 | 27,300,000 | 27,450,000 | 365 | 751 | 0.741969328 | |
| 15 | 27,375,000 | 27,525,000 | 366 | 516 | 0.167667007 | |
| 15 | 27,450,000 | 27,600,000 | 367 | 743 | 0.159650015 | |
| 15 | 27,525,000 | 27,675,000 | 368 | 665 | 0.470838692 | |
| 15 | 27,600,000 | 27,750,000 | 369 | 288 | 0.526812325 | |
| 15 | 27,675,000 | 27,825,000 | 370 | 412 | 0.637008826 | ENSBTAG00000037657 |
| 15 | 27,750,000 | 27,900,000 | 371 | 604 | 0.584364478 | APOA5,BUD13,ZNF259,ENSBTAG00000037657 |
| 15 | 27,825,000 | 27,975,000 | 372 | 665 | 0.677865103 | APOA1,APOA4,APOA5,APOC3,BUD13,SIK3,ZNF259,ENSBTAG00000037657 |
| 15 | 27,900,000 | 28,050,000 | 373 | 499 | 1.094496269 | APOA1,APOA4,APOC3,SIK3 |
| 15 | 27,975,000 | 28,125,000 | 374 | 371 | 0.859122676 | SIK3 |
| 15 | 28,050,000 | 28,200,000 | 375 | 387 | 0.661503023 | SIK3 |
| 15 | 28,125,000 | 28,275,000 | 376 | 321 | 0.554246071 | PAFAH1B2 |
| 15 | 28,200,000 | 28,350,000 | 377 | 346 | 0.665893164 | PAFAH1B2,PCSK7,SIDT2,TAGLN |
| 15 | 28,275,000 | 28,425,000 | 378 | 477 | 0.909798379 | BACE1,PAFAH1B2,PCSK7,RNF214,SIDT2,TAGLN |
| 15 | 28,350,000 | 28,500,000 | 379 | 484 | 0.682653385 | BACE1,CEP164,PCSK7,RNF214 |
| 15 | 28,425,000 | 28,575,000 | 380 | 455 | 0.77512365 | CEP164,DSCAML1 |
| 15 | 28,500,000 | 28,650,000 | 381 | 453 | 0.955180766 | CEP164,DSCAML1 |
| 15 | 28,575,000 | 28,725,000 | 382 | 864 | 0.859491176 | DSCAML1 |
| 15 | 28,650,000 | 28,800,000 | 383 | 1017 | 0.762600944 | |
| 15 | 28,725,000 | 28,875,000 | 384 | 577 | -0.075989977 | |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---|
| 15 | 28,800,000 | 28,950,000 | 385 | 397 | -0.330126033 | FXYD2,FXYD6,ENSBTAG00000047932 |
| 15 | 28,875,000 | 29,025,000 | 386 | 651 | 0.457889416 | FXYD2,FXYD6,TMPRSS13,ENSBTAG00000047932 |
| 15 | 28,950,000 | 29,100,000 | 387 | 753 | 0.19368063 | FXYD6,IL10RA,TMPRSS13 |
| 15 | 29,025,000 | 29,175,000 | 388 | 608 | -1.539649655 | IL10RA |
| 15 | 29,100,000 | 29,250,000 | 389 | 714 | -1.11640023 | IL10RA,TMPRSS4 |
| 15 | 29,175,000 | 29,325,000 | 390 | 643 | 0.415779986 | AMICA1,SCN2B,SCN4B,TMPRSS4 |
| 15 | 29,250,000 | 29,400,000 | 391 | 543 | 0.779188885 | AMICA1,MPZL2,MPZL3,SCN2B,SCN4B |
| 15 | 29,325,000 | 29,475,000 | 392 | 497 | -0.14010086 | AMICA1,CD3D,CD3E,CD3G,MPZL2,MPZL3 |
| 15 | 29,400,000 | 29,550,000 | 393 | 318 | -0.344354837 | ATP5L,CD3D,CD3E,CD3G,UBE4A |
| 15 | 29,475,000 | 29,625,000 | 394 | 129 | 0.506276355 | ATP5L,UBE4A |
| 15 | 29,550,000 | 29,700,000 | 395 | 107 | 0.886870013 | KMT2A |
| 15 | 29,625,000 | 29,775,000 | 396 | 187 | 0.513093745 | ARCN1,IFT46,KMT2A,TMEM25,TTC36 |
| 15 | 29,700,000 | 29,850,000 | 397 | 216 | 0.113854865 | ARCN1,IFT46,KMT2A,PHLDB1,TMEM25,TREH,TTC36 |
| 15 | 29,775,000 | 29,925,000 | 398 | 295 | 0.421880604 | ARCN1,DDX6,PHLDB1,TREH |
| 15 | 29,850,000 | 30,000,000 | 399 | 363 | 0.761227742 | DDX6 |
| 15 | 29,925,000 | 30,075,000 | 400 | 393 | 0.900440885 | BCL9L,BLR1,UPK2 |
| 15 | 30,000,000 | 30,150,000 | 401 | 365 | -0.318936535 | BCL9L,BLR1,CCDC84,FOXR1,RPS25,SLC37A4,TRAPPC4,UPK2 |
| 15 | 30,075,000 | 30,225,000 | 402 | 312 | -1.210377404 | C2CD2L,CCDC84,DPAGT1,FOXR1,H2AFX,HMBS,HYOU1,RPS25,SLC37A4,TRAPPC4,VPS11 |
| 15 | 30,150,000 | 30,300,000 | 403 | 282 | 0.219490039 | ABCG4,C2CD2L,DPAGT1,H2AFX,HINFP,HMBS,HYOU1,NLRX1,PDZD3,VPS11 |
| 15 | 30,225,000 | 30,375,000 | 404 | 208 | 0.633012066 | ABCG4,CBL,CCDC153,HINFP,NLRX1,PDZD3 |
| 15 | 30,300,000 | 30,450,000 | 405 | 196 | 0.285888539 | C1QTNF5,CBL,CCDC153,MCAM,PDZD3,RNF26 |
| 15 | 30,375,000 | 30,525,000 | 406 | 269 | -0.234093831 | C1QTNF5,CBL,MCAM,MFRP,RNF26,THY1,USP2 |
| 15 | 30,450,000 | 30,600,000 | 407 | 642 | -1.171686637 | C1QTNF5,MFRP,THY1,USP2 |
| 15 | 30,525,000 | 30,675,000 | 408 | 886 | -0.766491128 | |
| 15 | 30,600,000 | 30,750,000 | 409 | 748 | 0.18339968 | HVEC,ENSBTAG00000027759 |
| 15 | 30,675,000 | 30,825,000 | 410 | 671 | -0.468141261 | HVEC,ENSBTAG00000027759 |
| 15 | 30,750,000 | 30,900,000 | 411 | 844 | -0.260108414 | HVEC |
| 15 | 30,825,000 | 30,975,000 | 412 | 717 | 0.079341119 | |
| 15 | 30,900,000 | 31,050,000 | 413 | 516 | -0.615499385 | |
| 15 | 30,975,000 | 31,125,000 | 414 | 785 | -0.412584606 | |
| 15 | 31,050,000 | 31,200,000 | 415 | 768 | -0.878968388 | |
| 15 | 31,125,000 | 31,275,000 | 416 | 863 | -0.405444877 | TRIM29 |
| 15 | 31,200,000 | 31,350,000 | 417 | 783 | -0.060864377 | OAF,TRIM29 |
| 15 | 31,275,000 | 31,425,000 | 418 | 376 | -0.006683313 | OAF,POU2F3 |
| 15 | 31,350,000 | 31,500,000 | 419 | 308 | -0.110928472 | ARHGEF12,POU2F3,TMEM136 |
| 15 | 31,425,000 | 31,575,000 | 420 | 407 | 0.628095435 | ARHGEF12,POU2F3,TMEM136 |
| 15 | 31,500,000 | 31,650,000 | 421 | 577 | 0.91072204 | ARHGEF12 |
| 15 | 31,575,000 | 31,725,000 | 422 | 618 | 0.889691745 | ARHGEF12 |
| 15 | 31,650,000 | 31,800,000 | 423 | 505 | 0.970126406 | |
| 15 | 31,725,000 | 31,875,000 | 424 | 433 | 1.175152957 | |
| 15 | 31,800,000 | 31,950,000 | 425 | 667 | 1.114407335 | |
| 15 | 31,875,000 | 32,025,000 | 426 | 957 | 0.850069651 | |
| 15 | 31,950,000 | 32,100,000 | 427 | 994 | 0.885252945 | GRIK4 |
| 15 | 32,025,000 | 32,175,000 | 428 | 780 | 0.69457756 | GRIK4,ENSBTAG00000040051 |
| 15 | 32,100,000 | 32,250,000 | 429 | 378 | -0.12366113 | GRIK4,LRRC35,ENSBTAG00000040051 |
| 15 | 32,175,000 | 32,325,000 | 430 | 485 | -1.479677666 | LRRC35,TECTA |
| 15 | 32,250,000 | 32,400,000 | 431 | 626 | -1.353021055 | TECTA |
| 15 | 32,325,000 | 32,475,000 | 432 | 603 | 0.383927484 | SC5DL,TECTA |
| 15 | 32,400,000 | 32,550,000 | 433 | 747 | 0.969230402 | SC5DL |
| 15 | 32,475,000 | 32,625,000 | 434 | 688 | 1.018101081 | SORL1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 32,550,000 | 32,700,000 | 435 | 566 | 0.144187319 | SORL1 |
| 15 | 32,625,000 | 32,775,000 | 436 | 377 | -0.925397533 | SORL1 |
| 15 | 32,700,000 | 32,850,000 | 437 | 284 | 0.179716711 | SORL1 |
| 15 | 32,775,000 | 32,925,000 | 438 | 319 | 1.028859645 | |
| 15 | 32,850,000 | 33,000,000 | 439 | 301 | 1.091814929 | |
| 15 | 32,925,000 | 33,075,000 | 440 | 296 | 1.140334548 | |
| 15 | 33,000,000 | 33,150,000 | 441 | 399 | 1.192631202 | |
| 15 | 33,075,000 | 33,225,000 | 442 | 421 | 1.135372112 | |
| 15 | 33,150,000 | 33,300,000 | 443 | 383 | 1.154859132 | |
| 15 | 33,225,000 | 33,375,000 | 444 | 399 | 0.782095625 | |
| 15 | 33,300,000 | 33,450,000 | 445 | 559 | 0.640075815 | |
| 15 | 33,375,000 | 33,525,000 | 446 | 660 | 0.572978377 | |
| 15 | 33,450,000 | 33,600,000 | 447 | 723 | 0.603095468 | |
| 15 | 33,525,000 | 33,675,000 | 448 | 851 | 0.837972386 | |
| 15 | 33,600,000 | 33,750,000 | 449 | 973 | 0.297964246 | |
| 15 | 33,675,000 | 33,825,000 | 450 | 1163 | 0.510346199 | |
| 15 | 33,750,000 | 33,900,000 | 451 | 1162 | 1.118911171 | |
| 15 | 33,825,000 | 33,975,000 | 452 | 1039 | 1.257121465 | UBASH3B |
| 15 | 33,900,000 | 34,050,000 | 453 | 970 | 1.09076337 | C11orf63,CRTAM,UBASH3B |
| 15 | 33,975,000 | 34,125,000 | 454 | 606 | 0.803015505 | C11orf63,CRTAM,UBASH3B |
| 15 | 34,050,000 | 34,200,000 | 455 | 485 | 0.527076095 | BSX,C11orf63 |
| 15 | 34,125,000 | 34,275,000 | 456 | 438 | 0.468333669 | ASAM,BSX,HSPA8 |
| 15 | 34,200,000 | 34,350,000 | 457 | 659 | 0.902276314 | ASAM,HSPA8 |
| 15 | 34,275,000 | 34,425,000 | 458 | 1016 | 0.691066113 | ASAM |
| 15 | 34,350,000 | 34,500,000 | 459 | 998 | -0.444689169 | |
| 15 | 34,425,000 | 34,575,000 | 460 | 1075 | -0.344844797 | |
| 15 | 34,500,000 | 34,650,000 | 461 | 993 | 0.351043224 | GRAMD1B |
| 15 | 34,575,000 | 34,725,000 | 462 | 892 | 0.495503692 | GRAMD1B |
| 15 | 34,650,000 | 34,800,000 | 463 | 1042 | 0.906974349 | GRAMD1B,SCN3B |
| 15 | 34,725,000 | 34,875,000 | 464 | 1258 | 0.798479528 | GRAMD1B,SCN3B,ZNF202 |
| 15 | 34,800,000 | 34,950,000 | 465 | 1173 | 0.832891776 | SAAL1,ZNF202 |
| 15 | 34,875,000 | 35,025,000 | 466 | 715 | 0.999448169 | SAAL1,SERGEF,TPH1 |
| 15 | 34,950,000 | 35,100,000 | 467 | 612 | 1.203099766 | SAAL1,SERGEF,TPH1 |
| 15 | 35,025,000 | 35,175,000 | 468 | 854 | -0.261595471 | SERGEF |
| 15 | 35,100,000 | 35,250,000 | 469 | 827 | -0.783753467 | SERGEF |
| 15 | 35,175,000 | 35,325,000 | 470 | 809 | -0.610218191 | KCNC1,SERGEF |
| 15 | 35,250,000 | 35,400,000 | 471 | 693 | -1.190935467 | KCNC1,MYOD1,SERGEF |
| 15 | 35,325,000 | 35,475,000 | 472 | 545 | -0.482211755 | MYOD1,OTOG |
| 15 | 35,400,000 | 35,550,000 | 473 | 821 | 0.106289212 | OTOG,USH1C |
| 15 | 35,475,000 | 35,625,000 | 474 | 1092 | -0.026493441 | ABCC8,OTOG,USH1C |
| 15 | 35,550,000 | 35,700,000 | 475 | 1062 | -0.298892408 | ABCC8,KCNJ11,NUCB2 |
| 15 | 35,625,000 | 35,775,000 | 476 | 1134 | -0.272393693 | ABCC8,KCNJ11,NUCB2 |
| 15 | 35,700,000 | 35,850,000 | 477 | 1033 | 0.242359733 | NUCB2,ENSBTAG00000015244,ENSBTAG00000032859 |
| 15 | 35,775,000 | 35,925,000 | 478 | 915 | 0.582196879 | PIK3C2A,ENSBTAG00000015244,ENSBTAG00000032859 |
| 15 | 35,850,000 | 36,000,000 | 479 | 1070 | 0.354454717 | PIK3C2A,RPS13 |
| 15 | 35,925,000 | 36,075,000 | 480 | 957 | -0.007945778 | RPS13 |
| 15 | 36,000,000 | 36,150,000 | 481 | 832 | -0.247379406 | PLEKHA7 |
| 15 | 36,075,000 | 36,225,000 | 482 | 855 | -0.765939707 | PLEKHA7,SMAP |
| 15 | 36,150,000 | 36,300,000 | 483 | 883 | -0.960803525 | PLEKHA7,SMAP |
| 15 | 36,225,000 | 36,375,000 | 484 | 745 | -0.520798393 | SMAP |
| 15 | 36,300,000 | 36,450,000 | 485 | 678 | 0.701184498 | |
| 15 | 36,375,000 | 36,525,000 | 486 | 642 | 0.525556216 | |
| 15 | 36,450,000 | 36,600,000 | 487 | 603 | -0.338542584 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 15 | 36,525,000 | 36,675,000 | 488 | 853 | 0.377482375 | SOX6 |
| 15 | 36,600,000 | 36,750,000 | 489 | 853 | 0.630411788 | SOX6 |
| 15 | 36,675,000 | 36,825,000 | 490 | 844 | 0.461862738 | SOX6 |
| 15 | 36,750,000 | 36,900,000 | 491 | 938 | -0.407041406 | SOX6 |
| 15 | 36,825,000 | 36,975,000 | 492 | 867 | -1.185964244 | SOX6 |
| 15 | 36,900,000 | 37,050,000 | 493 | 757 | -0.037056125 | SOX6 |
| 15 | 36,975,000 | 37,125,000 | 494 | 715 | -0.830480429 | SOX6 |
| 15 | 37,050,000 | 37,200,000 | 495 | 812 | -0.477134494 | SOX6 |
| 15 | 37,125,000 | 37,275,000 | 496 | 818 | 0.266169624 | |
| 15 | 37,200,000 | 37,350,000 | 497 | 844 | 0.100251707 | |
| 15 | 37,275,000 | 37,425,000 | 498 | 852 | 0.374047709 | |
| 15 | 37,350,000 | 37,500,000 | 499 | 794 | 0.748921149 | |
| 15 | 37,425,000 | 37,575,000 | 500 | 933 | 0.175421045 | |
| 15 | 37,500,000 | 37,650,000 | 501 | 712 | -0.442498089 | |
| 15 | 37,575,000 | 37,725,000 | 502 | 579 | 0.48264049 | |
| 15 | 37,650,000 | 37,800,000 | 503 | 668 | 0.759546055 | |
| 15 | 37,725,000 | 37,875,000 | 504 | 482 | 0.582600625 | INSC |
| 15 | 37,800,000 | 37,950,000 | 505 | 533 | 0.088220385 | INSC |
| 15 | 37,875,000 | 38,025,000 | 506 | 606 | 0.174646485 | INSC |
| 15 | 37,950,000 | 38,100,000 | 507 | 500 | -0.139480614 | CT,INSC |
| 15 | 38,025,000 | 38,175,000 | 508 | 441 | -0.816473123 | CALC3,CT |
| 15 | 38,100,000 | 38,250,000 | 509 | 414 | 0.632155616 | CALC3 |
| 15 | 38,175,000 | 38,325,000 | 510 | 533 | 0.913539694 | |
| 15 | 38,250,000 | 38,400,000 | 511 | 451 | 0.504216627 | CRSP1 |
| 15 | 38,325,000 | 38,475,000 | 512 | 311 | 1.083884656 | CRSP1,CYP2R1,PDE3B |
| 15 | 38,400,000 | 38,550,000 | 513 | 318 | -1.664262708 | CYP2R1,PDE3B |
| 15 | 38,475,000 | 38,625,000 | 514 | 284 | -2.861900405 | PDE3B |
| 15 | 38,550,000 | 38,700,000 | 515 | 418 | -0.067964069 | PDE3B |
| 15 | 38,625,000 | 38,775,000 | 516 | 668 | 1.024834379 | COPB1,PDE3B,PSMA1 |
| 15 | 38,700,000 | 38,850,000 | 517 | 764 | 1.193571888 | COPB1,PSMA1 |
| 15 | 38,775,000 | 38,925,000 | 518 | 527 | 0.987107731 | COPB1,RRAS2 |
| 15 | 38,850,000 | 39,000,000 | 519 | 288 | 0.728572643 | RRAS2,SPON1 |
| 15 | 38,925,000 | 39,075,000 | 520 | 466 | 0.869034544 | RRAS2,SPON1 |
| 15 | 39,000,000 | 39,150,000 | 521 | 707 | 0.218047089 | SPON1 |
| 15 | 39,075,000 | 39,225,000 | 522 | 755 | -1.157107641 | SPON1 |
| 15 | 39,150,000 | 39,300,000 | 523 | 791 | -1.374121373 | SPON1 |
| 15 | 39,225,000 | 39,375,000 | 524 | 913 | -0.446866059 | SPON1 |
| 15 | 39,300,000 | 39,450,000 | 525 | 1068 | 0.169330961 | SPON1 |
| 15 | 39,375,000 | 39,525,000 | 526 | 727 | 0.016930341 | |
| 15 | 39,450,000 | 39,600,000 | 527 | 256 | -0.808237572 | FAR1 |
| 15 | 39,525,000 | 39,675,000 | 528 | 301 | -0.284640355 | FAR1 |
| 15 | 39,600,000 | 39,750,000 | 529 | 458 | 0.303313163 | FAR1,PTH |
| 15 | 39,675,000 | 39,825,000 | 530 | 356 | 0.877248147 | BTBD10,PTH |
| 15 | 39,750,000 | 39,900,000 | 531 | 324 | 1.329455069 | ARNTL,BTBD10 |
| 15 | 39,825,000 | 39,975,000 | 532 | 458 | 1.2716264 | ARNTL,BTBD10 |
| 15 | 39,900,000 | 40,050,000 | 533 | 314 | 1.305597591 | ARNTL |
| 15 | 39,975,000 | 40,125,000 | 534 | 374 | 1.236217098 | |
| 15 | 40,050,000 | 40,200,000 | 535 | 662 | 0.917244413 | |
| 15 | 40,125,000 | 40,275,000 | 536 | 847 | 0.953574462 | RASSF10 |
| 15 | 40,200,000 | 40,350,000 | 537 | 994 | 1.176960922 | RASSF10,TEAD1 |
| 15 | 40,275,000 | 40,425,000 | 538 | 908 | 0.900509013 | TEAD1 |
| 15 | 40,350,000 | 40,500,000 | 539 | 827 | 0.481001221 | TEAD1 |
| 15 | 40,425,000 | 40,575,000 | 540 | 832 | 0.770078793 | TEAD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 40,500,000 | 40,650,000 | 541 | 905 | 0.958885822 | |
| 15 | 40,575,000 | 40,725,000 | 542 | 764 | 0.69492707 | |
| 15 | 40,650,000 | 40,800,000 | 543 | 712 | 0.092644215 | PARVA |
| 15 | 40,725,000 | 40,875,000 | 544 | 859 | 0.157116884 | PARVA,ENSBTAG00000047961 |
| 15 | 40,800,000 | 40,950,000 | 545 | 736 | 0.315332551 | PARVA,ENSBTAG00000008193,ENSBTAG00000047961 |
| 15 | 40,875,000 | 41,025,000 | 546 | 762 | 0.228812535 | MICAL2,PARVA,ENSBTAG00000008193 |
| 15 | 40,950,000 | 41,100,000 | 547 | 852 | 0.20493981 | MICAL2,ENSBTAG00000008193 |
| 15 | 41,025,000 | 41,175,000 | 548 | 878 | 0.592609011 | MICAL2 |
| 15 | 41,100,000 | 41,250,000 | 549 | 815 | 1.054488013 | DKK3,MICAL2 |
| 15 | 41,175,000 | 41,325,000 | 550 | 661 | 0.804316781 | DKK3,USP47 |
| 15 | 41,250,000 | 41,400,000 | 551 | 771 | -0.071250657 | DKK3,USP47 |
| 15 | 41,325,000 | 41,475,000 | 552 | 712 | -0.305627431 | USP47 |
| 15 | 41,400,000 | 41,550,000 | 553 | 508 | 0.054080009 | |
| 15 | 41,475,000 | 41,625,000 | 554 | 531 | 0.714909568 | GALNTL4 |
| 15 | 41,550,000 | 41,700,000 | 555 | 602 | 0.715304381 | GALNTL4 |
| 15 | 41,625,000 | 41,775,000 | 556 | 684 | -1.208324469 | GALNTL4 |
| 15 | 41,700,000 | 41,850,000 | 557 | 958 | 0.292867431 | GALNTL4 |
| 15 | 41,775,000 | 41,925,000 | 558 | 1069 | 0.218784369 | GALNTL4 |
| 15 | 41,850,000 | 42,000,000 | 559 | 1159 | -1.570842639 | GALNTL4 |
| 15 | 41,925,000 | 42,075,000 | 560 | 1062 | -0.392759545 | GALNTL4 |
| 15 | 42,000,000 | 42,150,000 | 561 | 853 | 0.936558693 | |
| 15 | 42,075,000 | 42,225,000 | 562 | 991 | 0.365810338 | |
| 15 | 42,150,000 | 42,300,000 | 563 | 978 | -0.578098811 | |
| 15 | 42,225,000 | 42,375,000 | 564 | 823 | 0.040484652 | C7H19orf53,ENSBTAG00000046636 |
| 15 | 42,300,000 | 42,450,000 | 565 | 601 | 0.853111109 | C7H19orf53,EIF4G2,ZBED5,ENSBTAG00000046636 |
| 15 | 42,375,000 | 42,525,000 | 566 | 438 | 1.030753384 | CTR9,EIF4G2,ZBED5 |
| 15 | 42,450,000 | 42,600,000 | 567 | 611 | 0.264449782 | CTR9,MRVI1 |
| 15 | 42,525,000 | 42,675,000 | 568 | 848 | 0.377941886 | MRVI1 |
| 15 | 42,600,000 | 42,750,000 | 569 | 922 | 1.083112997 | LYVE1,MRVI1,RNF141 |
| 15 | 42,675,000 | 42,825,000 | 570 | 981 | 1.137110686 | AMPD3,LYVE1,RNF141 |
| 15 | 42,750,000 | 42,900,000 | 571 | 841 | 0.749662548 | AMPD3,RNF141 |
| 15 | 42,825,000 | 42,975,000 | 572 | 577 | 0.225369072 | ADM,SBF2 |
| 15 | 42,900,000 | 43,050,000 | 573 | 468 | 0.293284408 | ADM,SBF2 |
| 15 | 42,975,000 | 43,125,000 | 574 | 429 | 0.090357279 | SBF2 |
| 15 | 43,050,000 | 43,200,000 | 575 | 425 | -0.478802385 | SBF2 |
| 15 | 43,125,000 | 43,275,000 | 576 | 496 | -0.048943524 | SBF2 |
| 15 | 43,200,000 | 43,350,000 | 577 | 441 | 0.398397318 | SBF2 |
| 15 | 43,275,000 | 43,425,000 | 578 | 303 | 0.408290961 | SBF2 |
| 15 | 43,350,000 | 43,500,000 | 579 | 413 | 0.239403798 | SBF2 |
| 15 | 43,425,000 | 43,575,000 | 580 | 707 | 0.045453308 | HSPC321,SBF2 |
| 15 | 43,500,000 | 43,650,000 | 581 | 697 | 0.373500908 | HSPC321 |
| 15 | 43,575,000 | 43,725,000 | 582 | 503 | 1.012224637 | FAM92A1,HSPC321,WEE1,ENSBTAG00000016074 |
| 15 | 43,650,000 | 43,800,000 | 583 | 321 | 1.080575749 | FAM92A1,IPO7,WEE1,ZNF143,ENSBTAG00000016074 |
| 15 | 43,725,000 | 43,875,000 | 584 | 493 | -0.467162459 | IPO7,ZNF143,ENSBTAG00000016074 |
| 15 | 43,800,000 | 43,950,000 | 585 | 942 | -0.150657962 | IPO7,TMEM41B,ENSBTAG00000027723 |
| 15 | 43,875,000 | 44,025,000 | 586 | 857 | -0.406236946 | DENND5A,TMEM41B,ENSBTAG00000027723 |
| 15 | 43,950,000 | 44,100,000 | 587 | 670 | -0.407025505 | DENND5A,SCUBE2 |
| 15 | 44,025,000 | 44,175,000 | 588 | 585 | 0.13256433 | DENND5A,SCUBE2 |
| 15 | 44,100,000 | 44,250,000 | 589 | 325 | 0.036394132 | ASCL3,NRIP3,SCUBE2,TMEM9B |
| 15 | 44,175,000 | 44,325,000 | 590 | 409 | 0.279059767 | AKIP1,ASCL3,C11ORF16,NRIP3,TMEM9B |
| 15 | 44,250,000 | 44,400,000 | 591 | 543 | 0.238060393 | AKIP1,C11ORF16,ST5 |
| 15 | 44,325,000 | 44,475,000 | 592 | 401 | 0.089725909 | RPL27A,ST5 |
| 15 | 44,400,000 | 44,550,000 | 593 | 525 | -0.52038039 | RPL27A,ST5,TRIM66 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 44,475,000 | 44,625,000 | 594 | 497 | -0.492792059 | STK33,TRIM66 |
| 15 | 44,550,000 | 44,700,000 | 595 | 380 | -0.109702992 | STK33 |
| 15 | 44,625,000 | 44,775,000 | 596 | 673 | -0.462842591 | STK33 |
| 15 | 44,700,000 | 44,850,000 | 597 | 672 | -0.391056255 | STK33 |
| 15 | 44,775,000 | 44,925,000 | 598 | 627 | 0.22546946 | LMO1 |
| 15 | 44,850,000 | 45,000,000 | 599 | 862 | 0.498258033 | LMO1,RIC3 |
| 15 | 44,925,000 | 45,075,000 | 600 | 868 | 0.411788477 | RIC3,TUB |
| 15 | 45,000,000 | 45,150,000 | 601 | 997 | -0.555289402 | EIF3F,RIC3,TUB |
| 15 | 45,075,000 | 45,225,000 | 602 | 1199 | -0.50655744 | EIF3F,ENSBTAG00000038641,ENSBTAG00000039405,ENSBTAG00000040252 |
| 15 | 45,150,000 | 45,300,000 | 603 | 1296 | 0.280331658 | ENSBTAG00000038641,ENSBTAG00000039405,ENSBTAG00000040252,ENSBTAG00000046894 |
| 15 | 45,225,000 | 45,375,000 | 604 | 1508 | 0.253712961 | OR5P3,ENSBTAG00000021150,ENSBTAG00000040285,ENSBTAG00000046894 |
| 15 | 45,300,000 | 45,450,000 | 605 | 1652 | 0.250816931 | OR5P3,ENSBTAG00000021150,ENSBTAG00000040285,ENSBTAG00000045639,ENSBTAG00000048176 |
| 15 | 45,375,000 | 45,525,000 | 606 | 1901 | -0.529070301 | ENSBTAG00000026826,ENSBTAG00000037384,ENSBTAG00000045639,ENSBTAG00000048176 |
| 15 | 45,450,000 | 45,600,000 | 607 | 2023 | -0.539410872 | ENSBTAG00000026826,ENSBTAG00000037384,ENSBTAG00000038245,ENSBTAG00000038317,ENSBTAG00000038598,ENSBTAG00000047850 |
| 15 | 45,525,000 | 45,675,000 | 608 | 1829 | 0.170925867 | CYB5R2,OVCH2,PPFIBP2,ENSBTAG00000038245,ENSBTAG00000038317,ENSBTAG00000038598,ENSBTAG00000047850 |
| 15 | 45,600,000 | 45,750,000 | 609 | 1375 | -0.49609775 | CYB5R2,OVCH2,PPFIBP2 |
| 15 | 45,675,000 | 45,825,000 | 610 | 856 | -1.768645705 | PPFIBP2 |
| 15 | 45,750,000 | 45,900,000 | 611 | 969 | -3.466517765 | OLFML1,PPFIBP2 |
| 15 | 45,825,000 | 45,975,000 | 612 | 1198 | -2.46337229 | OLFML1,SYT9 |
| 15 | 45,900,000 | 46,050,000 | 613 | 1186 | -0.240262601 | SYT9 |
| 15 | 45,975,000 | 46,125,000 | 614 | 1227 | 0.188118764 | SYT9 |
| 15 | 46,050,000 | 46,200,000 | 615 | 1213 | 0.560301867 | |
| 15 | 46,125,000 | 46,275,000 | 616 | 1172 | 1.105814507 | |
| 15 | 46,200,000 | 46,350,000 | 617 | 1334 | 0.621858254 | NLRP14,RBMX |
| 15 | 46,275,000 | 46,425,000 | 618 | 1618 | -0.201544537 | NLRP14,OR2D3,RBMX,ZNF214,ZNF215 |
| 15 | 46,350,000 | 46,500,000 | 619 | 1731 | -0.934983557 | OR10A4,OR2D2,OR2D3,ZNF214,ZNF215,ENSBTAG00000026441,ENSBTAG00000045599,ENSBTAG00000047104 |
| 15 | 46,425,000 | 46,575,000 | 620 | 2224 | 0.066946275 | OR10A4,OR2D2,OR6A2,ENSBTAG00000026441,ENSBTAG00000032050,ENSBTAG00000032052,ENSBTAG00000045599,ENSBTAG00000047104 |
| 15 | 46,500,000 | 46,650,000 | 621 | 2754 | 0.010375233 | OR6A2,ENSBTAG00000032050,ENSBTAG00000032052,ENSBTAG00000036031,ENSBTAG00000037603,ENSBTAG00000038031 |
| 15 | 46,575,000 | 46,725,000 | 622 | 3049 | 0.062120143 | ENSBTAG00000015791,ENSBTAG00000021147,ENSBTAG00000035675,ENSBTAG00000036031,ENSBTAG00000037603,ENSBTAG00000038031,ENSBTAG00000047025 |
| 15 | 46,650,000 | 46,800,000 | 623 | 3024 | 0.566439016 | ENSBTAG00000015791,ENSBTAG00000021147,ENSBTAG00000035675,ENSBTAG00000046196,ENSBTAG00000047025 |
| 15 | 46,725,000 | 46,875,000 | 624 | 3012 | 0.747445786 | ENSBTAG00000004443,ENSBTAG00000037937,ENSBTAG00000046196 |
| 15 | 46,800,000 | 46,950,000 | 625 | 2792 | 0.665388033 | ENSBTAG00000004443,ENSBTAG00000037937,ENSBTAG00000037991 |
| 15 | 46,875,000 | 47,025,000 | 626 | 2389 | 0.307369209 | MRPL17,ENSBTAG00000037991 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 46,950,000 | 47,100,000 | 627 | 1720 | 0.090642809 | DCHS1,ILK,MRPL17,RRP8,TAF10,TPP1 |
| 15 | 47,025,000 | 47,175,000 | 628 | 1044 | 0.235871201 | APBB1,DCHS1,DNHD1,ILK,RRP8,TAF10,TPP1 |
| 15 | 47,100,000 | 47,250,000 | 629 | 679 | 0.238120742 | APBB1,ARFIP2,DNHD1,FXC1,HPX,TRIM3 |
| 15 | 47,175,000 | 47,325,000 | 630 | 665 | -2.075593054 | APBB1,ARFIP2,FXC1,HPX,SMPD1,TRIM3,ENSBTAG00000009440 |
| 15 | 47,250,000 | 47,400,000 | 631 | 708 | -2.559910656 | APBB1,CCKBR,PRKCDBP,SMPD1,ENSBTAG00000009440 |
| 15 | 47,325,000 | 47,475,000 | 632 | 424 | -0.690033541 | C11orf42,CCKBR,CNGA4,FAM160A2,OR52W1,OR56B4,PRKCDBP |
| 15 | 47,400,000 | 47,550,000 | 633 | 576 | 0.268075476 | C11orf42,CNGA4,FAM160A2,OR52B2,OR52W1,OR56B4 |
| 15 | 47,475,000 | 47,625,000 | 634 | 503 | 0.140740515 | OR52B2,OR56A1,ENSBTAG00000027443,ENSBTAG00000038977 |
| 15 | 47,550,000 | 47,700,000 | 635 | 291 | 0.415082493 | OR56A1,ENSBTAG00000027443,ENSBTAG00000032276,ENSBTAG000000038977,ENSBTAG00000047246,ENSBTAG0000048223 |
| 15 | 47,625,000 | 47,775,000 | 636 | 828 | 0.99118998 | OR52E4,OR52E5,OR56A3,ENSBTAG00000023125,ENSBTAG00000032276,ENSBTAG00000047246,ENSBTAG00000048223 |
| 15 | 47,700,000 | 47,850,000 | 637 | 1288 | 0.449874175 | OR52E4,OR52E5,OR56A3,ENSBTAG0000000118,ENSBTAG00000020952,ENSBTAG00000023125,ENSBTAG00000027949,ENSBTAG00000037505,ENSBTAG00000038452 |
| 15 | 47,775,000 | 47,925,000 | 638 | 1229 | 0.016261771 | ENSBTAG0000000118,ENSBTAG00000020952,ENSBTAG0000027949,ENSBTAG00000036326,ENSBTAG00000037505,ENSBTAG00000038452,ENSBTAG00000040480 |
| 15 | 47,850,000 | 48,000,000 | 639 | 1314 | 0.230570895 | OR52N1,ENSBTAG00000027430,ENSBTAG00000036326,ENSBTAG00000036328,ENSBTAG00000040480 |
| 15 | 47,925,000 | 48,075,000 | 640 | 1292 | 0.078624001 | OR52N1,ENSBTAG00000023912,ENSBTAG00000027430,ENSBTAG00000032255,ENSBTAG00000032256,ENSBTAG00000032259,ENSBTAG00000032262,ENSBTAG00000036328 |
| 15 | 48,000,000 | 48,150,000 | 641 | 1337 | -0.298340646 | ENSBTAG00000023912,ENSBTAG00000026929,ENSBTAG0000027889,ENSBTAG00000032255,ENSBTAG00000032256,ENSBTAG00000032259,ENSBTAG00000032262 |
| 15 | 48,075,000 | 48,225,000 | 642 | 1372 | -1.846593308 | ENSBTAG00000026924,ENSBTAG00000026929,ENSBTAG0000027889,ENSBTAG00000046618 |
| 15 | 48,150,000 | 48,300,000 | 643 | 1136 | -1.375595932 | ENSBTAG00000016119,ENSBTAG00000026922,ENSBTAG0000026924,ENSBTAG00000046618,ENSBTAG00000047088 |
| 15 | 48,225,000 | 48,375,000 | 644 | 1034 | -0.487941885 | ENSBTAG00000005609,ENSBTAG00000016119,ENSBTAG0000026922,ENSBTAG00000047088 |
| 15 | 48,300,000 | 48,450,000 | 645 | 1217 | 0.212347349 | ENSBTAG00000002043,ENSBTAG00000005609,ENSBTAG0000038536 |
| 15 | 48,375,000 | 48,525,000 | 646 | 1306 | 0.901454318 | ENSBTAG00000002043,ENSBTAG00000005251,ENSBTAG0000038536 |
| 15 | 48,450,000 | 48,600,000 | 647 | 1227 | 0.774561834 | OR52B6,ENSBTAG00000005251,ENSBTAG00000037465 |
| 15 | 48,525,000 | 48,675,000 | 648 | 1240 | 0.701136244 | OR52B6,ENSBTAG00000037465,ENSBTAG00000046489,ENSBTAG00000046741,ENSBTAG00000048166,ENSBTAG0000048214 |
| 15 | 48,600,000 | 48,750,000 | 649 | 1293 | 0.021439678 | MGC137098,UBQLN3,UBQLNL,ENSBTAG00000017647,ENSBTAG00000032224,ENSBTAG00000046441,ENSBTAG00000046489,ENSBTAG00000046741,ENSBTAG00000048166,ENSBTAG00000048214 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 48,675,000 | 48,825,000 | 650 | 1460 | -0.082763677 | MGC137098,OR51I2,UBQLN3,UBQLNL,ENSBTAG00000017647,ENSBTAG00000018182,ENSBTAG00000032224,ENSBTAG00000038637,ENSBTAG00000039214,ENSBTAG00000046441,ENSBTAG00000046825,ENSBTAG00000047232 |
| 15 | 48,750,000 | 48,900,000 | 651 | 1306 | 0.476179823 | OR51I1,OR51I2,OR51Q1,ENSBTAG00000018182,ENSBTAG00000019544,ENSBTAG00000038637,ENSBTAG00000039088,ENSBTAG00000039214,ENSBTAG00000046825,ENSBTAG00000047232 |
| 15 | 48,825,000 | 48,975,000 | 652 | 1497 | 0.263728587 | OR51I1,OR51M1,OR51Q1,ENSBTAG00000019544,ENSBTAG00000039088 |
| 15 | 48,900,000 | 49,050,000 | 653 | 2041 | 0.462395805 | HBB,HBE2,HBE4,OR51M1,ENSBTAG00000037815,ENSBTAG00000039056 |
| 15 | 48,975,000 | 49,125,000 | 654 | 1899 | 0.911468096 | HBB,HBE2,HBE4,OR51V1,ENSBTAG00000020673,ENSBTAG00000037644,ENSBTAG00000037815,ENSBTAG00000039056,ENSBTAG00000047477 |
| 15 | 49,050,000 | 49,200,000 | 655 | 1724 | 1.031053054 | HBE2,OR51V1,ENSBTAG00000020673,ENSBTAG00000037644,ENSBTAG00000046378,ENSBTAG00000047477,ENSBTAG00000048301 |
| 15 | 49,125,000 | 49,275,000 | 656 | 1667 | 1.05865914 | ENSBTAG00000038679,ENSBTAG00000046378,ENSBTAG00000046983,ENSBTAG00000048003,ENSBTAG00000048300,ENSBTAG00000048301 |
| 15 | 49,200,000 | 49,350,000 | 657 | 1581 | 0.893704972 | ENSBTAG00000038679,ENSBTAG00000039773,ENSBTAG00000046983,ENSBTAG00000047356,ENSBTAG00000047847,ENSBTAG00000048003,ENSBTAG00000048300 |
| 15 | 49,275,000 | 49,425,000 | 658 | 1357 | 0.912129026 | ENSBTAG00000039773,ENSBTAG00000040017,ENSBTAG00000045959,ENSBTAG00000046829,ENSBTAG00000046921,ENSBTAG00000047356,ENSBTAG00000047847 |
| 15 | 49,350,000 | 49,500,000 | 659 | 1237 | 0.927636901 | ENSBTAG00000039054,ENSBTAG00000040017,ENSBTAG00000045959,ENSBTAG00000046829,ENSBTAG00000046921 |
| 15 | 49,425,000 | 49,575,000 | 660 | 1447 | 1.035146548 | ENSBTAG00000038899,ENSBTAG00000039054,ENSBTAG00000040236,ENSBTAG00000047178,ENSBTAG00000047662 |
| 15 | 49,500,000 | 49,650,000 | 661 | 1370 | 0.764372155 | OR51F2,OR51T1,ENSBTAG00000038899,ENSBTAG00000039651,ENSBTAG00000040236,ENSBTAG00000047178,ENSBTAG00000047662 |
| 15 | 49,575,000 | 49,725,000 | 662 | 1186 | 0.117875224 | OR51F2,OR51T1,ENSBTAG00000014853,ENSBTAG00000038727,ENSBTAG00000039651 |
| 15 | 49,650,000 | 49,800,000 | 663 | 1065 | 0.163200906 | ENSBTAG00000000763,ENSBTAG00000014853,ENSBTAG00000038161,ENSBTAG00000038727,ENSBTAG00000045612 |
| 15 | 49,725,000 | 49,875,000 | 664 | 922 | 0.031367531 | OR52E2,ENSBTAG00000000763,ENSBTAG00000038161,ENSBTAG00000040408,ENSBTAG00000045612,ENSBTAG00000046913 |
| 15 | 49,800,000 | 49,950,000 | 665 | 1241 | -0.740162477 | OR52E2,ENSBTAG00000035006,ENSBTAG00000035008,ENSBTAG00000040408,ENSBTAG00000046913 |
| 15 | 49,875,000 | 50,025,000 | 666 | 1605 | -0.34991239 | ENSBTAG00000008312,ENSBTAG00000035006,ENSBTAG00000035008,ENSBTAG00000045488 |
| 15 | 49,950,000 | 50,100,000 | 667 | 1308 | -0.165481222 | ENSBTAG00000008312,ENSBTAG00000035027,ENSBTAG00000045488,ENSBTAG00000046624,ENSBTAG00000047960 |
| 15 | 50,025,000 | 50,175,000 | 668 | 989 | -0.390784383 | ENSBTAG00000035027,ENSBTAG00000039298,ENSBTAG00000046624,ENSBTAG00000047960 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 50,100,000 | 50,250,000 | 669 | 1237 | -0.760413276 | ENSBTAG00000037875,ENSBTAG00000039298,ENSBTAG0000039735,ENSBTAG00000047945 |
| 15 | 50,175,000 | 50,325,000 | 670 | 1393 | -0.515874162 | ENSBTAG00000004765,ENSBTAG00000037875,ENSBTAG0000039330,ENSBTAG00000039735,ENSBTAG00000040339,ENSBTAG00000047945 |
| 15 | 50,250,000 | 50,400,000 | 671 | 1327 | -0.61125719 | ENSBTAG00000004765,ENSBTAG00000037886,ENSBTAG0000038636,ENSBTAG00000039330,ENSBTAG00000040339 |
| 15 | 50,325,000 | 50,475,000 | 672 | 1546 | 0.048805744 | ENSBTAG00000017934,ENSBTAG00000037886,ENSBTAG0000038636,ENSBTAG00000040478,ENSBTAG00000047021 |
| 15 | 50,400,000 | 50,550,000 | 673 | 1435 | 0.764595418 | ENSBTAG00000017934,ENSBTAG00000020033,ENSBTAG0000022368,ENSBTAG00000038075,ENSBTAG00000040478,ENSBTAG00000045850,ENSBTAG00000047021,ENSBTAG00000047489 |
| 15 | 50,475,000 | 50,625,000 | 674 | 1245 | -1.14252606 | ENSBTAG00000020033,ENSBTAG00000022368,ENSBTAG0000038075,ENSBTAG00000038579,ENSBTAG00000038787,ENSBTAG00000040119,ENSBTAG00000045850,ENSBTAG00000047489 |
| 15 | 50,550,000 | 50,700,000 | 675 | 1263 | -1.375659734 | OR51L1,ENSBTAG00000038579,ENSBTAG00000038787,ENSBTAG00000039503,ENSBTAG00000040119 |
| 15 | 50,625,000 | 50,775,000 | 676 | 775 | -0.231214737 | OR51A7,OR51L1,ENSBTAG00000037474,ENSBTAG00000038170,ENSBTAG00000039134,ENSBTAG00000039503,ENSBTAG00000046816 |
| 15 | 50,700,000 | 50,850,000 | 677 | 430 | -0.059638911 | OR51A7,ENSBTAG00000037474,ENSBTAG00000038170,ENSBTAG00000039134,ENSBTAG00000046816,ENSBTAG0000046853,ENSBTAG00000047498 |
| 15 | 50,775,000 | 50,925,000 | 678 | 946 | 0.588532604 | ENSBTAG00000031937,ENSBTAG00000031943,ENSBTAG0000046853,ENSBTAG00000047498 |
| 15 | 50,850,000 | 51,000,000 | 679 | 1238 | 0.516028492 | OR51E2,ENSBTAG00000027637,ENSBTAG00000031937,ENSBTAG00000031943,ENSBTAG00000034711 |
| 15 | 50,925,000 | 51,075,000 | 680 | 1202 | 0.583396912 | OR51D1,OR51E1,OR51E2,TRIM68,ENSBTAG00000027637,ENSBTAG00000034711,ENSBTAG00000047556,ENSBTAG0000047803,ENSBTAG00000048052 |
| 15 | 51,000,000 | 51,150,000 | 681 | 788 | 0.609114657 | OR51D1,OR51E1,TRIM68,ENSBTAG00000047556,ENSBTAG00000047803,ENSBTAG00000048052 |
| 15 | 51,075,000 | 51,225,000 | 682 | 91 | -0.977343343 | |
| 15 | 51,150,000 | 51,300,000 | 683 | 43 | -0.008329713 | |
| 15 | 51,225,000 | 51,375,000 | 684 | 830 | -1.228202343 | OR52K2,ENSBTAG00000039467 |
| 15 | 51,300,000 | 51,450,000 | 685 | 1334 | -0.631497651 | OR52K1,OR52K2,OR52M1,ENSBTAG00000013683,ENSBTAG00000039467 |
| 15 | 51,375,000 | 51,525,000 | 686 | 1096 | 0.036382267 | OR52K1,OR52M1,TRIM21,ENSBTAG00000012325,ENSBTAG00000013683,ENSBTAG00000015357,ENSBTAG00000040075 |
| 15 | 51,450,000 | 51,600,000 | 687 | 1320 | -2.550156408 | TRIM21,ENSBTAG00000012325,ENSBTAG00000015357,ENSBTAG00000031915,ENSBTAG00000040075,ENSBTAG0000047860 |
| 15 | 51,525,000 | 51,675,000 | 688 | 1380 | -2.177788694 | ENSBTAG00000031907,ENSBTAG00000031915,ENSBTAG0000045696,ENSBTAG00000047860 |
| 15 | 51,600,000 | 51,750,000 | 689 | 1665 | 0.088462789 | ENSBTAG00000031903,ENSBTAG00000031907,ENSBTAG0000045556,ENSBTAG00000045696 |
| 15 | 51,675,000 | 51,825,000 | 690 | 1996 | 0.353165476 | RRM1,ENSBTAG00000005070,ENSBTAG00000031903,ENSBTAG00000035686,ENSBTAG00000045556 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 51,750,000 | 51,900,000 | 691 | 1695 | 0.107465766 | RRM1,STIM1,ENSBTAG00000005070,ENSBTAG000000035686 |
| 15 | 51,825,000 | 51,975,000 | 692 | 1542 | -0.021622727 | RRM1,STIM1 |
| 15 | 51,900,000 | 52,050,000 | 693 | 1505 | 0.37998123 | STIM1 |
| 15 | 51,975,000 | 52,125,000 | 694 | 1201 | 0.386803938 | NUP98,PGAP2,RHOG,STIM1 |
| 15 | 52,050,000 | 52,200,000 | 695 | 1112 | -0.264207901 | CHRNA10,NUP98,PGAP2,RHOG,ENSBTAG00000006345 |
| 15 | 52,125,000 | 52,275,000 | 696 | 1416 | -0.382420031 | ART1,CHRNA10,NUP98,ENSBTAG00000006345,ENSBTAG0000023648,ENSBTAG00000037826 |
| 15 | 52,200,000 | 52,350,000 | 697 | 1861 | -0.347452243 | ART1,RNF121,ENSBTAG00000006345,ENSBTAG00000011549,ENSBTAG00000023648,ENSBTAG00000026796,ENSBTAG00000037826 |
| 15 | 52,275,000 | 52,425,000 | 698 | 1728 | -0.073187782 | IL18BP,NUMA1,RNF121,ENSBTAG00000011549,ENSBTAG00000026796 |
| 15 | 52,350,000 | 52,500,000 | 699 | 1281 | 0.443768362 | IL18BP,LRRC51,NUMA1,RNF121 |
| 15 | 52,425,000 | 52,575,000 | 700 | 1429 | 0.487483727 | ANAPC15,FOLR1,LAMTOR1,LRRC51,LRTOMT,NUMA1 |
| 15 | 52,500,000 | 52,650,000 | 701 | 1494 | 0.622933014 | ANAPC15,FOLR1,FOLR2,INPPL1,LAMTOR1,LRRC51,LRTOMT,PHOX2A |
| 15 | 52,575,000 | 52,725,000 | 702 | 1526 | 0.97172985 | CLPB,FOLR1,FOLR2,INPPL1,PHOX2A |
| 15 | 52,650,000 | 52,800,000 | 703 | 1431 | 1.180007704 | CLPB |
| 15 | 52,725,000 | 52,875,000 | 704 | 1316 | 0.874283414 | CLPB |
| 15 | 52,800,000 | 52,950,000 | 705 | 1376 | 0.42171786 | CLPB,PDE2A |
| 15 | 52,875,000 | 53,025,000 | 706 | 1104 | 0.385900528 | PDE2A,ENSBTAG00000002051 |
| 15 | 52,950,000 | 53,100,000 | 707 | 755 | 0.484845298 | PDE2A,STARD10,ENSBTAG00000002051 |
| 15 | 53,025,000 | 53,175,000 | 708 | 636 | 0.440651908 | ATG16L2,FCHSD2,STARD10,ENSBTAG00000002051 |
| 15 | 53,100,000 | 53,250,000 | 709 | 738 | 0.31628417 | ATG16L2,FCHSD2,STARD10 |
| 15 | 53,175,000 | 53,325,000 | 710 | 742 | -0.946193548 | FCHSD2 |
| 15 | 53,250,000 | 53,400,000 | 711 | 663 | -1.908035187 | FCHSD2 |
| 15 | 53,325,000 | 53,475,000 | 712 | 562 | -0.602127382 | FCHSD2 |
| 15 | 53,400,000 | 53,550,000 | 713 | 1026 | 0.681925745 | FCHSD2,P2RY2 |
| 15 | 53,475,000 | 53,625,000 | 714 | 1155 | 0.196627288 | ARHGEF17,P2RY2,P2RY6 |
| 15 | 53,550,000 | 53,700,000 | 715 | 714 | -1.320648889 | ARHGEF17,FAM168A,P2RY6,RELT |
| 15 | 53,625,000 | 53,775,000 | 716 | 629 | -1.856224516 | ARHGEF17,FAM168A,RELT |
| 15 | 53,700,000 | 53,850,000 | 717 | 535 | -1.744054187 | |
| 15 | 53,775,000 | 53,925,000 | 718 | 523 | -0.448731596 | PLEKHB1 |
| 15 | 53,850,000 | 54,000,000 | 719 | 640 | 0.125135001 | PLEKHB1,ENSBTAG00000000025 |
| 15 | 53,925,000 | 54,075,000 | 720 | 921 | 0.207939394 | MRPL48,ENSBTAG00000000025 |
| 15 | 54,000,000 | 54,150,000 | 721 | 906 | -2.205007274 | MRPL48,PAAF1,ENSBTAG00000000025 |
| 15 | 54,075,000 | 54,225,000 | 722 | 925 | -2.929995835 | DNAJB13,MRPL48,PAAF1,UCP2,UCP3 |
| 15 | 54,150,000 | 54,300,000 | 723 | 1159 | -1.864766231 | C2CD3,DNAJB13,PAAF1,UCP2,UCP3 |
| 15 | 54,225,000 | 54,375,000 | 724 | 1205 | -0.652046863 | C2CD3,PPME1 |
| 15 | 54,300,000 | 54,450,000 | 725 | 1231 | -0.844702269 | C2CD3,P4HA3,PPME1 |
| 15 | 54,375,000 | 54,525,000 | 726 | 1308 | -2.581924144 | P4HA3,PGM2L1,PPME1,RPL36A |
| 15 | 54,450,000 | 54,600,000 | 727 | 1360 | -1.689976207 | KCNE3,P4HA3,PGM2L1,RPL36A |
| 15 | 54,525,000 | 54,675,000 | 728 | 1559 | -1.80293008 | KCNE3,LIPT2,PGM2L1 |
| 15 | 54,600,000 | 54,750,000 | 729 | 1665 | -2.911165124 | LIPT2,POLD3 |
| 15 | 54,675,000 | 54,825,000 | 730 | 1446 | -2.419990973 | CHRDL2,POLD3 |
| 15 | 54,750,000 | 54,900,000 | 731 | 993 | -1.571506426 | CHRDL2,RNF169 |
| 15 | 54,825,000 | 54,975,000 | 732 | 766 | -1.419083856 | RNF169,XRRA1 |
| 15 | 54,900,000 | 55,050,000 | 733 | 1129 | 0.151693732 | NEU3,RNF169,SPCS2,XRRA1 |
| 15 | 54,975,000 | 55,125,000 | 734 | 1324 | 0.568572907 | NEU3,OR2AT4,SPCS2,XRRA1,ENSBTAG00000047344 |
| 15 | 55,050,000 | 55,200,000 | 735 | 1025 | -0.262998419 | OR2AT4,SLCO2B1,ENSBTAG00000047344 |
| 15 | 55,125,000 | 55,275,000 | 736 | 767 | -0.499625431 | ARRB1,SLCO2B1,TPBGL |
| 15 | 55,200,000 | 55,350,000 | 737 | 710 | -0.6592145 | ARRB1,SLCO2B1,TPBGL |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 55,275,000 | 55,425,000 | 738 | 810 | -2.268053341 | ARRB1,GDPD5,KLHL35,RPS3 |
| 15 | 55,350,000 | 55,500,000 | 739 | 1018 | -0.837600724 | GDPD5,KLHL35,RPS3 |
| 15 | 55,425,000 | 55,575,000 | 740 | 837 | 0.068299435 | GDPD5,MAP6,SERPINH1 |
| 15 | 55,500,000 | 55,650,000 | 741 | 647 | -0.030522412 | MAP6,SERPINH1 |
| 15 | 55,575,000 | 55,725,000 | 742 | 825 | -0.503543933 | MAP6,MOGAT2,ENSBTAG00000047111 |
| 15 | 55,650,000 | 55,800,000 | 743 | 935 | -1.100923316 | MOGAT2,ENSBTAG00000047111 |
| 15 | 55,725,000 | 55,875,000 | 744 | 1246 | -0.697073643 | ENSBTAG00000000628,ENSBTAG00000015091,ENSBTAG0000046149 |
| 15 | 55,800,000 | 55,950,000 | 745 | 1205 | -0.355014275 | DGAT2,MOGAT2,ENSBTAG00000000628,ENSBTAG00000015091,ENSBTAG0000046149 |
| 15 | 55,875,000 | 56,025,000 | 746 | 1043 | -0.192756591 | DGAT2,MOGAT2,UVRAG |
| 15 | 55,950,000 | 56,100,000 | 747 | 1133 | -1.013619088 | DGAT2,UVRAG |
| 15 | 56,025,000 | 56,175,000 | 748 | 940 | -2.423281158 | UVRAG |
| 15 | 56,100,000 | 56,250,000 | 749 | 741 | -2.536550034 | UVRAG |
| 15 | 56,175,000 | 56,325,000 | 750 | 724 | -1.417327525 | UVRAG |
| 15 | 56,250,000 | 56,400,000 | 751 | 826 | -1.292429237 | UVRAG,WNT11 |
| 15 | 56,325,000 | 56,475,000 | 752 | 939 | -1.4379112 | WNT11 |
| 15 | 56,400,000 | 56,550,000 | 753 | 933 | -0.35929455 | PRKRIR,WNT11 |
| 15 | 56,475,000 | 56,625,000 | 754 | 969 | 0.612192266 | PRKRIR |
| 15 | 56,550,000 | 56,700,000 | 755 | 773 | 0.315470266 | C11orf30,PRKRIR |
| 15 | 56,625,000 | 56,775,000 | 756 | 503 | -2.606997977 | C11orf30 |
| 15 | 56,700,000 | 56,850,000 | 757 | 563 | -2.891809932 | C11orf30,LRRC32 |
| 15 | 56,775,000 | 56,925,000 | 758 | 786 | -0.565539601 | LRRC32,ENSBTAG00000027438 |
| 15 | 56,850,000 | 57,000,000 | 759 | 715 | 0.115322757 | TSKU,ENSBTAG00000027438 |
| 15 | 56,925,000 | 57,075,000 | 760 | 383 | -0.070399527 | ACER3,TSKU |
| 15 | 57,000,000 | 57,150,000 | 761 | 265 | -0.141503266 | ACER3 |
| 15 | 57,075,000 | 57,225,000 | 762 | 353 | -0.691717626 | ACER3 |
| 15 | 57,150,000 | 57,300,000 | 763 | 1273 | -1.623862643 | ACER3,B3GNT6,CAPN5 |
| 15 | 57,225,000 | 57,375,000 | 764 | 1433 | -1.397894696 | B3GNT6,CAPN5,MYO7A |
| 15 | 57,300,000 | 57,450,000 | 765 | 1020 | 0.093152261 | CAPN5,MYO7A,ENSBTAG00000000886 |
| 15 | 57,375,000 | 57,525,000 | 766 | 1161 | 0.932374767 | MYO7A,ENSBTAG00000000886 |
| 15 | 57,450,000 | 57,600,000 | 767 | 1078 | 1.135465194 | ENSBTAG00000000886 |
| 15 | 57,525,000 | 57,675,000 | 768 | 1027 | 0.562783481 | |
| 15 | 57,600,000 | 57,750,000 | 769 | 1195 | 0.20689718 | |
| 15 | 57,675,000 | 57,825,000 | 770 | 1296 | 0.403494114 | |
| 15 | 57,750,000 | 57,900,000 | 771 | 842 | 0.240433956 | |
| 15 | 57,825,000 | 57,975,000 | 772 | 712 | -1.201838802 | ANO3 |
| 15 | 57,900,000 | 58,050,000 | 773 | 805 | -1.004045986 | ANO3 |
| 15 | 57,975,000 | 58,125,000 | 774 | 683 | 0.189133654 | ANO3,MUC15 |
| 15 | 58,050,000 | 58,200,000 | 775 | 583 | 0.425670921 | ANO3,MUC15,SLC5A12 |
| 15 | 58,125,000 | 58,275,000 | 776 | 452 | 0.0248858 | ANO3,SLC5A12 |
| 15 | 58,200,000 | 58,350,000 | 777 | 672 | -0.756349592 | |
| 15 | 58,275,000 | 58,425,000 | 778 | 773 | -1.056180906 | |
| 15 | 58,350,000 | 58,500,000 | 779 | 697 | -0.613166043 | FIBIN |
| 15 | 58,425,000 | 58,575,000 | 780 | 663 | -0.407787471 | BBOX1,FIBIN |
| 15 | 58,500,000 | 58,650,000 | 781 | 708 | -0.793368043 | BBOX1 |
| 15 | 58,575,000 | 58,725,000 | 782 | 765 | -0.364691078 | BBOX1 |
| 15 | 58,650,000 | 58,800,000 | 783 | 929 | 0.23057339 | |
| 15 | 58,725,000 | 58,875,000 | 784 | 836 | -0.583577961 | CCDC34,LGR4 |
| 15 | 58,800,000 | 58,950,000 | 785 | 404 | -1.599794627 | CCDC34,LGR4 |
| 15 | 58,875,000 | 59,025,000 | 786 | 320 | -1.588350904 | LGR4,LIN7C |
| 15 | 58,950,000 | 59,100,000 | 787 | 542 | 0.115319295 | LGR4,LIN7C |
| 15 | 59,025,000 | 59,175,000 | 788 | 556 | 0.55769718 | BDNF |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 15 | 59,100,000 | 59,250,000 | 789 | 437 | 0.469945364 | BDNF |
| 15 | 59,175,000 | 59,325,000 | 790 | 583 | -0.2947162 | BDNF |
| 15 | 59,250,000 | 59,400,000 | 791 | 793 | -0.828569524 | |
| 15 | 59,325,000 | 59,475,000 | 792 | 694 | -0.295359667 | |
| 15 | 59,400,000 | 59,550,000 | 793 | 414 | -0.302239119 | KIF18A |
| 15 | 59,475,000 | 59,625,000 | 794 | 222 | -0.950961583 | KIF18A,METTL15 |
| 15 | 59,550,000 | 59,700,000 | 795 | 108 | -1.354711868 | KIF18A,METTL15 |
| 15 | 59,625,000 | 59,775,000 | 796 | 124 | -0.999265688 | METTL15 |
| 15 | 59,700,000 | 59,850,000 | 797 | 291 | -1.261029197 | METTL15 |
| 15 | 59,775,000 | 59,925,000 | 798 | 355 | -1.261607089 | METTL15 |
| 15 | 59,850,000 | 60,000,000 | 799 | 314 | -0.923088873 | |
| 15 | 59,925,000 | 60,075,000 | 800 | 380 | -0.222524292 | |
| 15 | 60,000,000 | 60,150,000 | 801 | 335 | -0.194782307 | |
| 15 | 60,075,000 | 60,225,000 | 802 | 435 | -0.499075 | |
| 15 | 60,150,000 | 60,300,000 | 803 | 619 | -0.089667999 | |
| 15 | 60,225,000 | 60,375,000 | 804 | 427 | -0.529198845 | |
| 15 | 60,300,000 | 60,450,000 | 805 | 244 | -3.835572591 | |
| 15 | 60,375,000 | 60,525,000 | 806 | 207 | -1.480311295 | |
| 15 | 60,450,000 | 60,600,000 | 807 | 195 | 0.490006091 | |
| 15 | 60,525,000 | 60,675,000 | 808 | 457 | 0.99532982 | |
| 15 | 60,600,000 | 60,750,000 | 809 | 458 | 0.759226299 | |
| 15 | 60,675,000 | 60,825,000 | 810 | 241 | -1.852046482 | |
| 15 | 60,750,000 | 60,900,000 | 811 | 356 | -2.473712819 | |
| 15 | 60,825,000 | 60,975,000 | 812 | 488 | -1.862975277 | |
| 15 | 60,900,000 | 61,050,000 | 813 | 875 | -0.309605046 | |
| 15 | 60,975,000 | 61,125,000 | 814 | 925 | -0.112485491 | |
| 15 | 61,050,000 | 61,200,000 | 815 | 826 | 0.339881858 | |
| 15 | 61,125,000 | 61,275,000 | 816 | 1091 | 0.388376877 | |
| 15 | 61,200,000 | 61,350,000 | 817 | 1054 | -0.247006203 | |
| 15 | 61,275,000 | 61,425,000 | 818 | 997 | -1.710481862 | |
| 15 | 61,350,000 | 61,500,000 | 819 | 983 | -1.787128146 | |
| 15 | 61,425,000 | 61,575,000 | 820 | 618 | -0.79402023 | KCNA4 |
| 15 | 61,500,000 | 61,650,000 | 821 | 556 | -0.869933677 | KCNA4 |
| 15 | 61,575,000 | 61,725,000 | 822 | 659 | -1.152645213 | ENSBTAG00000039236 |
| 15 | 61,650,000 | 61,800,000 | 823 | 465 | -1.131489441 | FSHB,ENSBTAG00000039236 |
| 15 | 61,725,000 | 61,875,000 | 824 | 410 | -0.780932204 | ARL14EP,FSHB |
| 15 | 61,800,000 | 61,950,000 | 825 | 452 | -0.294099432 | ARL14EP,MPPED2 |
| 15 | 61,875,000 | 62,025,000 | 826 | 437 | 0.156006799 | MPPED2 |
| 15 | 61,950,000 | 62,100,000 | 827 | 371 | -1.003695955 | MPPED2 |
| 15 | 62,025,000 | 62,175,000 | 828 | 399 | -0.883051418 | MPPED2 |
| 15 | 62,100,000 | 62,250,000 | 829 | 407 | 0.300345635 | MPPED2 |
| 15 | 62,175,000 | 62,325,000 | 830 | 351 | 0.33312763 | |
| 15 | 62,250,000 | 62,400,000 | 831 | 457 | 0.846540887 | |
| 15 | 62,325,000 | 62,475,000 | 832 | 451 | 0.753415386 | ENSBTAG00000048290 |
| 15 | 62,400,000 | 62,550,000 | 833 | 481 | -0.332802054 | DCDC1,ENSBTAG00000048290 |
| 15 | 62,475,000 | 62,625,000 | 834 | 726 | -0.160569437 | DCDC1,ENSBTAG00000048290 |
| 15 | 62,550,000 | 62,700,000 | 835 | 990 | 0.558926461 | |
| 15 | 62,625,000 | 62,775,000 | 836 | 845 | 0.826490088 | |
| 15 | 62,700,000 | 62,850,000 | 837 | 619 | 0.745107905 | ENSBTAG00000045878 |
| 15 | 62,775,000 | 62,925,000 | 838 | 607 | 0.492002151 | DCDC1,ENSBTAG00000045878 |
| 15 | 62,850,000 | 63,000,000 | 839 | 377 | 0.052226651 | DCDC1,DNAJC24 |
| 15 | 62,925,000 | 63,075,000 | 840 | 429 | 0.42280583 | DCDC1,DNAJC24,IMMP1L |
| 15 | 63,000,000 | 63,150,000 | 841 | 467 | 0.591540793 | DNAJC24,ELP4,IMMP1L |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 15 | 63,075,000 | 63,225,000 | 842 | 285 | 0.106904045 | ELP4,IMMP1L |
| 15 | 63,150,000 | 63,300,000 | 843 | 444 | 0.781003193 | ELP4 |
| 15 | 63,225,000 | 63,375,000 | 844 | 470 | 0.675825668 | ELP4,PAX6 |
| 15 | 63,300,000 | 63,450,000 | 845 | 452 | -2.245127792 | ELP4,PAX6 |
| 15 | 63,375,000 | 63,525,000 | 846 | 678 | -1.814713581 | PAX6 |
| 15 | 63,450,000 | 63,600,000 | 847 | 557 | -0.388214761 | |
| 15 | 63,525,000 | 63,675,000 | 848 | 464 | -0.807185702 | RCN1 |
| 15 | 63,600,000 | 63,750,000 | 849 | 812 | -0.024350112 | RCN1 |
| 15 | 63,675,000 | 63,825,000 | 850 | 1297 | 0.102784922 | |
| 15 | 63,750,000 | 63,900,000 | 851 | 1078 | -0.171727692 | |
| 15 | 63,825,000 | 63,975,000 | 852 | 668 | 0.262038101 | WT1 |
| 15 | 63,900,000 | 64,050,000 | 853 | 731 | 0.858501612 | WT1 |
| 15 | 63,975,000 | 64,125,000 | 854 | 776 | 0.87943604 | CCDC73,EIF3M |
| 15 | 64,050,000 | 64,200,000 | 855 | 558 | 0.804920898 | CCDC73,EIF3M |
| 15 | 64,125,000 | 64,275,000 | 856 | 869 | 0.601088817 | CCDC73 |
| 15 | 64,200,000 | 64,350,000 | 857 | 1045 | 0.582661329 | CCDC73,PRRG4 |
| 15 | 64,275,000 | 64,425,000 | 858 | 690 | 0.631995403 | PRRG4,QSER1 |
| 15 | 64,350,000 | 64,500,000 | 859 | 621 | 0.762121691 | DEPDC7,QSER1,TCP11L1 |
| 15 | 64,425,000 | 64,575,000 | 860 | 549 | 0.342023963 | CSTF3,DEPDC7,QSER1,TCP11L1 |
| 15 | 64,500,000 | 64,650,000 | 861 | 611 | -0.462952568 | CSTF3,TCP11L1 |
| 15 | 64,575,000 | 64,725,000 | 862 | 553 | -0.07025899 | CSTF3,HIPK3 |
| 15 | 64,650,000 | 64,800,000 | 863 | 410 | 0.306801181 | HIPK3 |
| 15 | 64,725,000 | 64,875,000 | 864 | 500 | 0.201557288 | HIPK3,ENSBTAG00000027578 |
| 15 | 64,800,000 | 64,950,000 | 865 | 758 | 0.623819146 | ENSBTAG00000027578 |
| 15 | 64,875,000 | 65,025,000 | 866 | 769 | 0.464369218 | KIAA1549L |
| 15 | 64,950,000 | 65,100,000 | 867 | 930 | -0.035174051 | KIAA1549L |
| 15 | 65,025,000 | 65,175,000 | 868 | 1150 | 0.157045866 | C11orf91,CD59,KIAA1549L |
| 15 | 65,100,000 | 65,250,000 | 869 | 1016 | 0.038088295 | C11orf91,CD59,FBXO3,KIAA1549L |
| 15 | 65,175,000 | 65,325,000 | 870 | 774 | -1.745281484 | FBXO3 |
| 15 | 65,250,000 | 65,400,000 | 871 | 793 | -1.430538067 | LMO2 |
| 15 | 65,325,000 | 65,475,000 | 872 | 765 | -1.522918368 | CAPRIN1,LMO2 |
| 15 | 65,400,000 | 65,550,000 | 873 | 725 | -0.099633526 | ABTB2,CAPRIN1,LMO2,NAT10 |
| 15 | 65,475,000 | 65,625,000 | 874 | 924 | 0.564154841 | ABTB2,CAPRIN1,NAT10 |
| 15 | 65,550,000 | 65,700,000 | 875 | 893 | -0.511295821 | ABTB2 |
| 15 | 65,625,000 | 65,775,000 | 876 | 689 | -0.562111485 | ABTB2 |
| 15 | 65,700,000 | 65,850,000 | 877 | 544 | 0.227001092 | ABTB2,CAT,ELF5 |
| 15 | 65,775,000 | 65,925,000 | 878 | 517 | 0.461090938 | CAT,ELF5 |
| 15 | 65,850,000 | 66,000,000 | 879 | 609 | -0.221520994 | EHF,ELF5 |
| 15 | 65,925,000 | 66,075,000 | 880 | 769 | -0.649723767 | EHF |
| 15 | 66,000,000 | 66,150,000 | 881 | 801 | 0.1974082 | EHF |
| 15 | 66,075,000 | 66,225,000 | 882 | 839 | 0.0760848 | APIP |
| 15 | 66,150,000 | 66,300,000 | 883 | 1213 | 0.281948513 | APIP,PDHX |
| 15 | 66,225,000 | 66,375,000 | 884 | 1304 | 0.611253514 | APIP,PDHX |
| 15 | 66,300,000 | 66,450,000 | 885 | 1009 | 0.743179733 | PDHX |
| 15 | 66,375,000 | 66,525,000 | 886 | 701 | -0.047537109 | CD44 |
| 15 | 66,450,000 | 66,600,000 | 887 | 535 | -2.27537546 | CD44,SLC1A2 |
| 15 | 66,525,000 | 66,675,000 | 888 | 480 | -1.857483821 | CD44,SLC1A2 |
| 15 | 66,600,000 | 66,750,000 | 889 | 340 | 0.428384197 | SLC1A2 |
| 15 | 66,675,000 | 66,825,000 | 890 | 347 | 0.351700829 | PAMR1 |
| 15 | 66,750,000 | 66,900,000 | 891 | 523 | 0.168471394 | PAMR1 |
| 15 | 66,825,000 | 66,975,000 | 892 | 995 | 0.769583923 | FJX1,PAMR1 |
| 15 | 66,900,000 | 67,050,000 | 893 | 1161 | 0.973245002 | FJX1,TRIM44 |
| 15 | 66,975,000 | 67,125,000 | 894 | 1085 | 0.913536115 | TRIM44 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 15 | 67,050,000 | 67,200,000 | 895 | 1197 | 0.509652511 | TRIM44 |
| 15 | 67,125,000 | 67,275,000 | 896 | 1062 | 0.36190995 | LDLRAD3 |
| 15 | 67,200,000 | 67,350,000 | 897 | 930 | 0.538928041 | LDLRAD3 |
| 15 | 67,275,000 | 67,425,000 | 898 | 949 | 0.418996841 | LDLRAD3 |
| 15 | 67,350,000 | 67,500,000 | 899 | 633 | 0.040512463 | LDLRAD3 |
| 15 | 67,425,000 | 67,575,000 | 900 | 522 | -0.105568239 | COMMD9,LDLRAD3 |
| 15 | 67,500,000 | 67,650,000 | 901 | 556 | -0.712531931 | COMMD9,LDLRAD3 |
| 15 | 67,575,000 | 67,725,000 | 902 | 652 | -2.14328896 | COMMD9,PRR5L |
| 15 | 67,650,000 | 67,800,000 | 903 | 872 | -1.09954759 | PRR5L,TRAF6 |
| 15 | 67,725,000 | 67,875,000 | 904 | 964 | -0.143264737 | C15H11ORF74,PRR5L,RAG1,RAG2,TRAF6 |
| 15 | 67,800,000 | 67,950,000 | 905 | 1070 | -0.238606659 | C15H11ORF74,RAG1,RAG2 |
| 15 | 67,875,000 | 68,025,000 | 906 | 1231 | 1.036010902 | C15H11ORF74 |
| 15 | 67,950,000 | 68,100,000 | 907 | 1300 | 1.093266449 | |
| 15 | 68,025,000 | 68,175,000 | 908 | 988 | 0.617887225 | |
| 15 | 68,100,000 | 68,250,000 | 909 | 803 | 0.337389623 | |
| 15 | 68,175,000 | 68,325,000 | 910 | 1239 | 0.34483486 | |
| 15 | 68,250,000 | 68,400,000 | 911 | 1196 | 0.411969142 | |
| 15 | 68,325,000 | 68,475,000 | 912 | 976 | 0.398350558 | |
| 15 | 68,400,000 | 68,550,000 | 913 | 1229 | 0.58883846 | |
| 15 | 68,475,000 | 68,625,000 | 914 | 1243 | 0.430132219 | |
| 15 | 68,550,000 | 68,700,000 | 915 | 1036 | -0.161431738 | |
| 15 | 68,625,000 | 68,775,000 | 916 | 708 | -0.145991217 | |
| 15 | 68,700,000 | 68,850,000 | 917 | 566 | -0.587585079 | |
| 15 | 68,775,000 | 68,925,000 | 918 | 555 | -0.203210576 | |
| 15 | 68,850,000 | 69,000,000 | 919 | 669 | 0.370342954 | |
| 15 | 68,925,000 | 69,075,000 | 920 | 986 | 0.33725261 | |
| 15 | 69,000,000 | 69,150,000 | 921 | 1310 | 0.007082794 | |
| 15 | 69,075,000 | 69,225,000 | 922 | 1162 | -0.362478086 | |
| 15 | 69,150,000 | 69,300,000 | 923 | 963 | -0.518305201 | |
| 15 | 69,225,000 | 69,375,000 | 924 | 938 | -0.707848915 | |
| 15 | 69,300,000 | 69,450,000 | 925 | 821 | -0.382290945 | |
| 15 | 69,375,000 | 69,525,000 | 926 | 821 | -0.093186999 | |
| 15 | 69,450,000 | 69,600,000 | 927 | 881 | 0.114765764 | |
| 15 | 69,525,000 | 69,675,000 | 928 | 794 | 0.361938074 | |
| 15 | 69,600,000 | 69,750,000 | 929 | 879 | 0.484016878 | |
| 15 | 69,675,000 | 69,825,000 | 930 | 1086 | 0.683900378 | |
| 15 | 69,750,000 | 69,900,000 | 931 | 1115 | 1.043668045 | |
| 15 | 69,825,000 | 69,975,000 | 932 | 1086 | 0.065274175 | |
| 15 | 69,900,000 | 70,050,000 | 933 | 1465 | 0.103320783 | |
| 15 | 69,975,000 | 70,125,000 | 934 | 1738 | 0.447121815 | |
| 15 | 70,050,000 | 70,200,000 | 935 | 1506 | 0.356593052 | |
| 15 | 70,125,000 | 70,275,000 | 936 | 1391 | 0.212579688 | |
| 15 | 70,200,000 | 70,350,000 | 937 | 1428 | 0.477782228 | |
| 15 | 70,275,000 | 70,425,000 | 938 | 1124 | 0.297412834 | |
| 15 | 70,350,000 | 70,500,000 | 939 | 783 | 0.823277059 | |
| 15 | 70,425,000 | 70,575,000 | 940 | 892 | 0.977685149 | |
| 15 | 70,500,000 | 70,650,000 | 941 | 1072 | 0.464488528 | |
| 15 | 70,575,000 | 70,725,000 | 942 | 928 | 0.17272868 | |
| 15 | 70,650,000 | 70,800,000 | 943 | 664 | 0.016397174 | |
| 15 | 70,725,000 | 70,875,000 | 944 | 496 | 0.293121618 | |
| 15 | 70,800,000 | 70,950,000 | 945 | 540 | -0.462836487 | |
| 15 | 70,875,000 | 71,025,000 | 946 | 887 | -1.252338183 | |
| 15 | 70,950,000 | 71,100,000 | 947 | 908 | -0.833251909 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--------------------|
| 15 | 71,025,000 | 71,175,000 | 948 | 1118 | 0.447208886 | |
| 15 | 71,100,000 | 71,250,000 | 949 | 1004 | 0.66934672 | LRR4C |
| 15 | 71,175,000 | 71,325,000 | 950 | 640 | -0.409909023 | LRR4C |
| 15 | 71,250,000 | 71,400,000 | 951 | 698 | -0.32424974 | |
| 15 | 71,325,000 | 71,475,000 | 952 | 736 | 0.21519523 | |
| 15 | 71,400,000 | 71,550,000 | 953 | 860 | -0.973386267 | |
| 15 | 71,475,000 | 71,625,000 | 954 | 916 | -1.181828411 | |
| 15 | 71,550,000 | 71,700,000 | 955 | 1008 | -0.195549648 | |
| 15 | 71,625,000 | 71,775,000 | 956 | 1348 | -0.135154459 | |
| 15 | 71,700,000 | 71,850,000 | 957 | 1562 | -0.421691791 | |
| 15 | 71,775,000 | 71,925,000 | 958 | 1337 | -0.107584557 | |
| 15 | 71,850,000 | 72,000,000 | 959 | 729 | 0.440021323 | |
| 15 | 71,925,000 | 72,075,000 | 960 | 614 | 0.655785114 | |
| 15 | 72,000,000 | 72,150,000 | 961 | 1027 | 0.093385429 | |
| 15 | 72,075,000 | 72,225,000 | 962 | 889 | -0.263882678 | |
| 15 | 72,150,000 | 72,300,000 | 963 | 627 | 0.177251923 | |
| 15 | 72,225,000 | 72,375,000 | 964 | 751 | 0.486761266 | |
| 15 | 72,300,000 | 72,450,000 | 965 | 635 | 0.540714261 | |
| 15 | 72,375,000 | 72,525,000 | 966 | 604 | -0.004699608 | MSANTD3 |
| 15 | 72,450,000 | 72,600,000 | 967 | 605 | -0.240190837 | MSANTD3 |
| 15 | 72,525,000 | 72,675,000 | 968 | 771 | 0.175665772 | |
| 15 | 72,600,000 | 72,750,000 | 969 | 1273 | 0.493176249 | |
| 15 | 72,675,000 | 72,825,000 | 970 | 1400 | 0.25461143 | |
| 15 | 72,750,000 | 72,900,000 | 971 | 983 | -0.038765175 | |
| 15 | 72,825,000 | 72,975,000 | 972 | 478 | 0.340398322 | |
| 15 | 72,900,000 | 73,050,000 | 973 | 369 | -0.279117783 | |
| 15 | 72,975,000 | 73,125,000 | 974 | 357 | -0.845278342 | |
| 15 | 73,050,000 | 73,200,000 | 975 | 549 | -1.282069208 | |
| 15 | 73,125,000 | 73,275,000 | 976 | 817 | -0.406321935 | |
| 15 | 73,200,000 | 73,350,000 | 977 | 1083 | 0.945977917 | |
| 15 | 73,275,000 | 73,425,000 | 978 | 1460 | 0.409591717 | ENSBTAG00000000487 |
| 15 | 73,350,000 | 73,500,000 | 979 | 1402 | 0.15482771 | ENSBTAG00000000487 |
| 15 | 73,425,000 | 73,575,000 | 980 | 998 | -0.370032831 | |
| 15 | 73,500,000 | 73,650,000 | 981 | 892 | -0.27128238 | |
| 15 | 73,575,000 | 73,725,000 | 982 | 1219 | 0.493875304 | |
| 15 | 73,650,000 | 73,800,000 | 983 | 1429 | 0.401947329 | |
| 15 | 73,725,000 | 73,875,000 | 984 | 1430 | 0.539656112 | |
| 15 | 73,800,000 | 73,950,000 | 985 | 1522 | 0.761569874 | |
| 15 | 73,875,000 | 74,025,000 | 986 | 1371 | -0.056936386 | |
| 15 | 73,950,000 | 74,100,000 | 987 | 1047 | -0.825570099 | |
| 15 | 74,025,000 | 74,175,000 | 988 | 1178 | 0.324119622 | |
| 15 | 74,100,000 | 74,250,000 | 989 | 1171 | -0.260311638 | |
| 15 | 74,175,000 | 74,325,000 | 990 | 878 | -1.172294015 | API5 |
| 15 | 74,250,000 | 74,400,000 | 991 | 874 | -0.05344612 | API5,TTC17 |
| 15 | 74,325,000 | 74,475,000 | 992 | 952 | 0.476126774 | TTC17 |
| 15 | 74,400,000 | 74,550,000 | 993 | 836 | 0.36319376 | TTC17 |
| 15 | 74,475,000 | 74,625,000 | 994 | 627 | 0.803062871 | |
| 15 | 74,550,000 | 74,700,000 | 995 | 478 | 0.810838473 | HSD17B12 |
| 15 | 74,625,000 | 74,775,000 | 996 | 326 | -0.453250956 | HSD17B12 |
| 15 | 74,700,000 | 74,850,000 | 997 | 395 | -1.418905833 | ALKBH3,HSD17B12 |
| 15 | 74,775,000 | 74,925,000 | 998 | 532 | -0.665946675 | ALKBH3,HSD17B12 |
| 15 | 74,850,000 | 75,000,000 | 999 | 1018 | -0.07115878 | ALKBH3 |
| 15 | 74,925,000 | 75,075,000 | 1000 | 1163 | 0.193857259 | ACCSL,ACS,EXT2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 15 | 75,000,000 | 75,150,000 | 1001 | 672 | 0.904730366 | ACCSL,ACS,EXT2 |
| 15 | 75,075,000 | 75,225,000 | 1002 | 523 | 0.852611133 | ALX4,EXT2 |
| 15 | 75,150,000 | 75,300,000 | 1003 | 435 | 0.395454127 | ALX4,EXT2 |
| 15 | 75,225,000 | 75,375,000 | 1004 | 425 | 0.193056386 | EXT2 |
| 15 | 75,300,000 | 75,450,000 | 1005 | 438 | -0.675247324 | |
| 15 | 75,375,000 | 75,525,000 | 1006 | 532 | -0.549806526 | CD82 |
| 15 | 75,450,000 | 75,600,000 | 1007 | 606 | -0.531609827 | CD82 |
| 15 | 75,525,000 | 75,675,000 | 1008 | 714 | -1.155461207 | CD82 |
| 15 | 75,600,000 | 75,750,000 | 1009 | 1043 | -0.257935918 | TSPAN18 |
| 15 | 75,675,000 | 75,825,000 | 1010 | 1020 | -0.190303254 | TSPAN18 |
| 15 | 75,750,000 | 75,900,000 | 1011 | 652 | -0.455650045 | TP53I11,TSPAN18 |
| 15 | 75,825,000 | 75,975,000 | 1012 | 670 | -0.034638828 | TP53I11,TSPAN18 |
| 15 | 75,900,000 | 76,050,000 | 1013 | 898 | 0.219828556 | |
| 15 | 75,975,000 | 76,125,000 | 1014 | 731 | 0.808942138 | PRDM11 |
| 15 | 76,050,000 | 76,200,000 | 1015 | 986 | 0.679269641 | PRDM11,SYT13,ENSBTAG00000031210 |
| 15 | 76,125,000 | 76,275,000 | 1016 | 1290 | 0.460965074 | PRDM11,SYT13,ENSBTAG00000031210 |
| 15 | 76,200,000 | 76,350,000 | 1017 | 1213 | 0.309285616 | SYT13 |
| 15 | 76,275,000 | 76,425,000 | 1018 | 1455 | -0.07767545 | |
| 15 | 76,350,000 | 76,500,000 | 1019 | 1794 | -0.852139206 | |
| 15 | 76,425,000 | 76,575,000 | 1020 | 1613 | -0.573179047 | CHST1 |
| 15 | 76,500,000 | 76,650,000 | 1021 | 993 | 0.418860756 | CHST1 |
| 15 | 76,575,000 | 76,725,000 | 1022 | 828 | -1.055844896 | CHST1 |
| 15 | 76,650,000 | 76,800,000 | 1023 | 1137 | -1.004387685 | CRY2,MAPK8IP1,SLC35C1 |
| 15 | 76,725,000 | 76,875,000 | 1024 | 983 | 0.413878618 | C15H11orf94,CRY2,GYLTL1B,MAPK8IP1,PEX16,PHF21A,SLC35C1 |
| 15 | 76,800,000 | 76,950,000 | 1025 | 728 | 0.855069123 | C15H11orf94,GYLTL1B,MAPK8IP1,PEX16,PHF21A |
| 15 | 76,875,000 | 77,025,000 | 1026 | 615 | 0.755470944 | PHF21A |
| 15 | 76,950,000 | 77,100,000 | 1027 | 714 | -1.097772198 | |
| 15 | 77,025,000 | 77,175,000 | 1028 | 766 | -1.089839736 | CREB3L1 |
| 15 | 77,100,000 | 77,250,000 | 1029 | 538 | -0.472522023 | BMK,CREB3L1,DGKZ |
| 15 | 77,175,000 | 77,325,000 | 1030 | 618 | -0.30276316 | AMBRA1,BMK,CHRM4,CREB3L1,DGKZ |
| 15 | 77,250,000 | 77,400,000 | 1031 | 734 | -0.38694357 | AMBRA1,BMK,CHRM4 |
| 15 | 77,325,000 | 77,475,000 | 1032 | 584 | -0.745583826 | AMBRA1,ATG13,HARBI1 |
| 15 | 77,400,000 | 77,550,000 | 1033 | 531 | -0.079139717 | AMBRA1,ARHGAP1,ATG13,CKAP5,F2,HARBI1,ZNF408 |
| 15 | 77,475,000 | 77,625,000 | 1034 | 533 | -0.503310823 | ARHGAP1,ATG13,CKAP5,F2,ZNF408 |
| 15 | 77,550,000 | 77,700,000 | 1035 | 452 | -0.321776396 | CKAP5,LRP4 |
| 15 | 77,625,000 | 77,775,000 | 1036 | 327 | 0.443080112 | CKAP5,LRP4,ENSBTAG00000047298 |
| 15 | 77,700,000 | 77,850,000 | 1037 | 132 | -0.651085921 | LRP4,ENSBTAG00000012546,ENSBTAG00000038160,ENSBTAG00000047298 |
| 15 | 77,775,000 | 77,925,000 | 1038 | 104 | -1.762260106 | ENSBTAG00000012546,ENSBTAG00000016082,ENSBTAG00000038160 |
| 15 | 77,850,000 | 78,000,000 | 1039 | 124 | -3.34774698 | ENSBTAG00000016082,ENSBTAG00000046354 |
| 15 | 77,925,000 | 78,075,000 | 1040 | 211 | -1.792908255 | C11orf49,ENSBTAG00000046354 |
| 15 | 78,000,000 | 78,150,000 | 1041 | 249 | 0.00759887 | C11orf49 |
| 15 | 78,075,000 | 78,225,000 | 1042 | 477 | 0.528069044 | C11orf49 |
| 15 | 78,150,000 | 78,300,000 | 1043 | 587 | -0.147090702 | ARFGAP2,C11orf49,DDB2,PACSIN3 |
| 15 | 78,225,000 | 78,375,000 | 1044 | 369 | -0.138754097 | ACP2,ARFGAP2,C11orf49,DDB2,MADD,NR1H3,PACSIN3 |
| 15 | 78,300,000 | 78,450,000 | 1045 | 296 | 0.877516795 | ACP2,DDB2,MADD,MYBPC3,NR1H3,SLC39A13,SPI1 |
| 15 | 78,375,000 | 78,525,000 | 1046 | 322 | 0.905687447 | CUGBP1,MADD,MYBPC3,PSMC3,RAPSN,SLC39A13,SPI1 |
| 15 | 78,450,000 | 78,600,000 | 1047 | 358 | 0.527085328 | CUGBP1,KBTBD4,NDUFS3,PSMC3,PTPMT1,RAPSN,SLC39A13 |
| 15 | 78,525,000 | 78,675,000 | 1048 | 636 | 0.069928282 | CUGBP1,KBTBD4,MTCH2,NDUFS3,PTPMT1 |
| 15 | 78,600,000 | 78,750,000 | 1049 | 770 | 0.035852799 | FNBP4,MTCH2,NUP160 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 78,675,000 | 78,825,000 | 1050 | 810 | 0.145860711 | FNBP4,NUP160 |
| 15 | 78,750,000 | 78,900,000 | 1051 | 1052 | 0.001156929 | NUP160 |
| 15 | 78,825,000 | 78,975,000 | 1052 | 975 | -0.037693355 | |
| 15 | 78,900,000 | 79,050,000 | 1053 | 980 | 0.690273029 | PTPRJ |
| 15 | 78,975,000 | 79,125,000 | 1054 | 924 | 0.608703381 | PTPRJ |
| 15 | 79,050,000 | 79,200,000 | 1055 | 970 | 0.372264937 | OR4X1,PTPRJ,ENSBTAG00000000926,ENSBTAG00000005914,ENSBTAG00000031025 |
| 15 | 79,125,000 | 79,275,000 | 1056 | 1266 | 0.100896722 | OR4C5,OR4S1,OR4X1,ENSBTAG00000000926,ENSBTAG000005914,ENSBTAG00000024788,ENSBTAG00000031025,ENSBTAG00000031027,ENSBTAG00000031028,ENSBTAG00000031029 |
| 15 | 79,200,000 | 79,350,000 | 1057 | 1386 | -0.378626001 | OR4C3,OR4C5,OR4S1,ENSBTAG00000016090,ENSBTAG000024788,ENSBTAG00000030909,ENSBTAG00000031027,ENSBTAG00000031028,ENSBTAG00000031029,ENSBTAG00000031032 |
| 15 | 79,275,000 | 79,425,000 | 1058 | 1379 | -0.344919831 | OR4C3,ENSBTAG00000016090,ENSBTAG00000030909,ENSBTAG00000031032,ENSBTAG00000039821 |
| 15 | 79,350,000 | 79,500,000 | 1059 | 1604 | -0.079206471 | ENSBTAG00000039821,ENSBTAG00000047026,ENSBTAG0000048037 |
| 15 | 79,425,000 | 79,575,000 | 1060 | 2033 | 0.110864903 | ENSBTAG00000027275,ENSBTAG00000035487,ENSBTAG0000035489,ENSBTAG00000047026,ENSBTAG00000048037 |
| 15 | 79,500,000 | 79,650,000 | 1061 | 1704 | 0.076954701 | ENSBTAG00000010005,ENSBTAG00000027275,ENSBTAG0000035487,ENSBTAG00000035489,ENSBTAG00000037666,ENSBTAG00000046923 |
| 15 | 79,575,000 | 79,725,000 | 1062 | 1103 | -0.280387388 | ENSBTAG00000010005,ENSBTAG00000011521,ENSBTAG0000035485,ENSBTAG00000037666,ENSBTAG00000039272,ENSBTAG00000040425,ENSBTAG00000046923 |
| 15 | 79,650,000 | 79,800,000 | 1063 | 1069 | -0.346885261 | ENSBTAG00000005624,ENSBTAG00000007944,ENSBTAG0000011521,ENSBTAG00000035485,ENSBTAG00000039272,ENSBTAG00000040341,ENSBTAG00000040425 |
| 15 | 79,725,000 | 79,875,000 | 1064 | 911 | 0.370439785 | ENSBTAG00000003056,ENSBTAG00000005087,ENSBTAG0000005624,ENSBTAG00000007944,ENSBTAG00000014594,ENSBTAG00000015876,ENSBTAG00000020746,ENSBTAG00000040341 |
| 15 | 79,800,000 | 79,950,000 | 1065 | 824 | 0.661061224 | ENSBTAG00000003056,ENSBTAG00000005087,ENSBTAG0000014594,ENSBTAG00000015876,ENSBTAG00000020746,ENSBTAG00000023511,ENSBTAG00000046471,ENSBTAG00000048141 |
| 15 | 79,875,000 | 80,025,000 | 1066 | 1302 | 0.565819233 | ENSBTAG00000005874,ENSBTAG00000023511,ENSBTAG0000030920,ENSBTAG00000039331,ENSBTAG00000046471,ENSBTAG00000048141 |
| 15 | 79,950,000 | 80,100,000 | 1067 | 1372 | 0.460893833 | ENSBTAG00000005874,ENSBTAG00000030920,ENSBTAG0000039331 |
| 15 | 80,025,000 | 80,175,000 | 1068 | 1037 | 0.458352685 | ENSBTAG00000030920 |
| 15 | 80,100,000 | 80,250,000 | 1069 | 1023 | 0.74148104 | ENSBTAG00000046527 |
| 15 | 80,175,000 | 80,325,000 | 1070 | 1329 | 0.575344028 | OR8I2,ENSBTAG00000001291,ENSBTAG00000014309,ENSBTAG00000046527 |
| 15 | 80,250,000 | 80,400,000 | 1071 | 1347 | 0.728566567 | OR8I2,ENSBTAG00000001291,ENSBTAG00000014309,ENSBTAG00000037878,ENSBTAG00000045709,ENSBTAG0000046278 |
| 15 | 80,325,000 | 80,475,000 | 1072 | 890 | 1.109351723 | ENSBTAG00000035988,ENSBTAG00000037878,ENSBTAG0000045709,ENSBTAG00000046278 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 80,400,000 | 80,550,000 | 1073 | 611 | 1.023283261 | ENSBTAG00000035059,ENSBTAG00000035985,ENSBTAG0000035986,ENSBTAG00000035988,ENSBTAG00000046274,ENSBTAG00000046710 |
| 15 | 80,475,000 | 80,625,000 | 1074 | 555 | 1.126599159 | ENSBTAG00000022858,ENSBTAG00000023310,ENSBTAG0000024423,ENSBTAG00000035059,ENSBTAG00000035985,ENSBTAG00000035986,ENSBTAG00000046274,ENSBTAG00000046710 |
| 15 | 80,550,000 | 80,700,000 | 1075 | 641 | 0.835407605 | ENSBTAG00000022858,ENSBTAG00000023310,ENSBTAG0000024423,ENSBTAG00000035990,ENSBTAG00000038049,ENSBTAG00000039348,ENSBTAG00000046845 |
| 15 | 80,625,000 | 80,775,000 | 1076 | 607 | 0.594291321 | ENSBTAG00000035989,ENSBTAG00000035990,ENSBTAG0000038049,ENSBTAG00000039348,ENSBTAG00000046845 |
| 15 | 80,700,000 | 80,850,000 | 1077 | 500 | 0.739853152 | OR5J2,ENSBTAG00000035031,ENSBTAG00000035989,ENSBTAG00000045723 |
| 15 | 80,775,000 | 80,925,000 | 1078 | 887 | 0.940170421 | OR5J2,ENSBTAG00000035029,ENSBTAG00000035031,ENSBTAG00000045723,ENSBTAG00000046801,ENSBTAG0000047721 |
| 15 | 80,850,000 | 81,000,000 | 1079 | 1080 | 0.695725938 | ENSBTAG00000035029,ENSBTAG00000038479,ENSBTAG0000039110,ENSBTAG00000045739,ENSBTAG00000046801,ENSBTAG00000047721 |
| 15 | 80,925,000 | 81,075,000 | 1080 | 936 | -0.461098093 | OR5M11,OR5M3,ENSBTAG00000038479,ENSBTAG00000039110,ENSBTAG00000045739 |
| 15 | 81,000,000 | 81,150,000 | 1081 | 950 | -1.330132445 | OR5M11,OR5M3,ENSBTAG00000006421,ENSBTAG00000016146,ENSBTAG00000023542,ENSBTAG00000036130 |
| 15 | 81,075,000 | 81,225,000 | 1082 | 1284 | -0.095683334 | ENSBTAG00000006421,ENSBTAG00000016146,ENSBTAG0000023542,ENSBTAG00000036130,ENSBTAG00000036131,ENSBTAG00000039801,ENSBTAG00000040463 |
| 15 | 81,150,000 | 81,300,000 | 1083 | 1295 | 0.085799602 | ENSBTAG00000036131,ENSBTAG00000037928,ENSBTAG0000038539,ENSBTAG00000039801,ENSBTAG00000040463 |
| 15 | 81,225,000 | 81,375,000 | 1084 | 739 | -0.724214517 | ENSBTAG00000031017,ENSBTAG00000037928,ENSBTAG0000038539 |
| 15 | 81,300,000 | 81,450,000 | 1085 | 448 | -2.028196294 | ENSBTAG00000023202,ENSBTAG00000031017,ENSBTAG0000038539 |
| 15 | 81,375,000 | 81,525,000 | 1086 | 645 | -0.762219798 | OR5AK2,ENSBTAG00000023202,ENSBTAG00000031017,ENSBTAG00000039448 |
| 15 | 81,450,000 | 81,600,000 | 1087 | 1298 | 0.575857187 | OR5AK2,ENSBTAG00000023202,ENSBTAG00000039448 |
| 15 | 81,525,000 | 81,675,000 | 1088 | 1701 | 0.672635337 | LRRC55 |
| 15 | 81,600,000 | 81,750,000 | 1089 | 1588 | 0.753303694 | APLNR,LRRC55 |
| 15 | 81,675,000 | 81,825,000 | 1090 | 1338 | 0.977433202 | APLNR,LRRC55,SSRP1,TNKS1BP1 |
| 15 | 81,750,000 | 81,900,000 | 1091 | 996 | 0.114580507 | P2RX3,PRG3,SSRP1,TNKS1BP1 |
| 15 | 81,825,000 | 81,975,000 | 1092 | 1173 | -2.03967489 | P2RX3,PRG3,SSRP1,ENSBTAG00000040320 |
| 15 | 81,900,000 | 82,050,000 | 1093 | 1348 | -2.039968361 | PRG3,RTN4RL2,SLC43A3,ENSBTAG00000040320 |
| 15 | 81,975,000 | 82,125,000 | 1094 | 1065 | -0.950487743 | RTN4RL2,SLC43A3,SMTNL1,TIMM10,UBE2L6 |
| 15 | 82,050,000 | 82,200,000 | 1095 | 1123 | 0.308632776 | SERPING1,SMTNL1,TIMM10,UBE2L6 |
| 15 | 82,125,000 | 82,275,000 | 1096 | 1117 | 0.93640565 | CLP1,SERPING1,UBE2L6 |
| 15 | 82,200,000 | 82,350,000 | 1097 | 773 | 0.750029215 | CLP1,CTNND1,ZDHHC5 |
| 15 | 82,275,000 | 82,425,000 | 1098 | 608 | -0.296033786 | BTBD18,CTNND1,MED19,TMX2,ZDHHC5 |
| 15 | 82,350,000 | 82,500,000 | 1099 | 783 | -1.908892444 | BTBD18,MED19,TMX2,ZDHHC5 |
| 15 | 82,425,000 | 82,575,000 | 1100 | 1511 | -1.381035931 | ENSBTAG00000007971,ENSBTAG00000047396 |
| 15 | 82,500,000 | 82,650,000 | 1101 | 1705 | -0.190492098 | OR9I1,ENSBTAG00000007971,ENSBTAG00000047396 |
| 15 | 82,575,000 | 82,725,000 | 1102 | 1789 | 0.203166567 | OR9I1,ENSBTAG000000038267 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 15 | 82,650,000 | 82,800,000 | 1103 | 1887 | 0.219171415 | OR10Q1,OR9Q2,ENSBTAG00000038267,ENSBTAG00000040150 |
| 15 | 82,725,000 | 82,875,000 | 1104 | 1705 | 0.744362058 | OR10Q1,OR10W1,OR5B3,OR9Q2,ENSBTAG00000039306,ENSBTAG00000040150 |
| 15 | 82,800,000 | 82,950,000 | 1105 | 1689 | 0.68653151 | OR10W1,OR5B17,OR5B3,ENSBTAG00000014572,ENSBTAG00000037853,ENSBTAG00000039306 |
| 15 | 82,875,000 | 83,025,000 | 1106 | 1359 | 0.129319383 | OR5B17,OR5B2,OR5B3,ENSBTAG00000013503,ENSBTAG0000014572,ENSBTAG00000037853,ENSBTAG00000039592 |
| 15 | 82,950,000 | 83,100,000 | 1107 | 1506 | 0.830707958 | OR5B2,ENSBTAG00000013503,ENSBTAG00000027942,ENSBTAG00000036042,ENSBTAG00000039592,ENSBTAG000047464 |
| 15 | 83,025,000 | 83,175,000 | 1108 | 1770 | 0.821050713 | ENSBTAG00000027942,ENSBTAG00000036042,ENSBTAG0000046380,ENSBTAG00000046460,ENSBTAG00000047464 |
| 15 | 83,100,000 | 83,250,000 | 1109 | 1662 | -0.138269286 | LPXN,ENSBTAG00000024657,ENSBTAG00000046380,ENSBTAG00000046460 |
| 15 | 83,175,000 | 83,325,000 | 1110 | 1321 | -0.167722543 | CNTF,LPXN,ENSBTAG00000024657 |
| 15 | 83,250,000 | 83,400,000 | 1111 | 1049 | -0.432183428 | CNTF,MPEG1,ENSBTAG00000024657,ENSBTAG00000038058 |
| 15 | 83,325,000 | 83,475,000 | 1112 | 979 | 0.340035921 | GLYAT,MPEG1,ENSBTAG00000012540,ENSBTAG00000038058 |
| 15 | 83,400,000 | 83,550,000 | 1113 | 782 | 0.880431535 | GLYAT,GLYATL2,ENSBTAG00000012540,ENSBTAG00000038058 |
| 15 | 83,475,000 | 83,625,000 | 1114 | 740 | 0.835690885 | FAM111A,FAM111B,GLYATL2,ENSBTAG00000012540 |
| 15 | 83,550,000 | 83,700,000 | 1115 | 933 | 0.975176135 | DTX4,FAM111A,FAM111B |
| 15 | 83,625,000 | 83,775,000 | 1116 | 832 | 1.011675848 | DTX4,ENSBTAG00000039760 |
| 15 | 83,700,000 | 83,850,000 | 1117 | 534 | 0.286792658 | ENSBTAG00000005255,ENSBTAG00000039760 |
| 15 | 83,775,000 | 83,925,000 | 1118 | 402 | -1.954303533 | ENSBTAG00000005255,ENSBTAG00000040023,ENSBTAG0000046811 |
| 15 | 83,850,000 | 84,000,000 | 1119 | 785 | 0.760124117 | OR4D6,OR5A1,ENSBTAG00000037538,ENSBTAG00000040023,ENSBTAG00000046811 |
| 15 | 83,925,000 | 84,075,000 | 1120 | 1311 | 0.582441289 | OR4D6,OR4D9,OR5A1,ENSBTAG00000001432,ENSBTAG0000002071,ENSBTAG0000002679,ENSBTAG00000018259,ENSBTAG00000033519,ENSBTAG00000037538 |
| 15 | 84,000,000 | 84,150,000 | 1121 | 960 | -0.039575676 | OR4D9,OSBP,ENSBTAG00000001432,ENSBTAG00000002071,ENSBTAG0000002679,ENSBTAG00000018259,ENSBTAG00000033506,ENSBTAG00000033519 |
| 15 | 84,075,000 | 84,225,000 | 1122 | 403 | -0.14027373 | OR4D9,OSBP,PATL1,ENSBTAG00000033506 |
| 15 | 84,150,000 | 84,300,000 | 1123 | 389 | 0.760233773 | OR10V1,PATL1,ENSBTAG00000048032 |
| 15 | 84,225,000 | 84,375,000 | 1124 | 426 | 0.821200312 | GIF,MRPL16,OR10V1,STX3,ENSBTAG00000048032 |
| 15 | 84,300,000 | 84,450,000 | 1125 | 618 | -0.33085578 | GIF,MRPL16,OOSP1,STX3,TCN1 |
| 15 | 84,375,000 | 84,525,000 | 1126 | 730 | -0.397571699 | GIF,MS4A2,MS4A3,OOSP1,TCN1 |
| 15 | 84,450,000 | 84,600,000 | 1127 | 756 | -0.27688521 | MS4A14,MS4A2,MS4A3,MS4A5,MS4A7 |
| 15 | 84,525,000 | 84,675,000 | 1128 | 635 | -0.051730123 | MS4A1,MS4A13,MS4A14,MS4A5,MS4A7 |
| 15 | 84,600,000 | 84,750,000 | 1129 | 344 | 0.275784659 | MS4A1,MS4A13,MS4A5 |
| 15 | 84,675,000 | 84,825,000 | 1130 | 290 | 0.194578469 | MS4A13,NCAPD3 |
| 15 | 84,750,000 | 84,900,000 | 1131 | 316 | -0.984448414 | ACAD8,NCAPD3,THYN1,VPS26B,ENSBTAG00000012229 |
| 15 | 84,825,000 | 84,975,000 | 1132 | 444 | -0.519015098 | ACAD8,GLB1L2,GLB1L3,NCAPD3,THYN1,VPS26B,ENSBTAG00000012229 |
| 15 | 84,900,000 | 85,050,000 | 1133 | 569 | 0.357120607 | B3GAT1,GLB1L2,GLB1L3,ENSBTAG00000012229 |
| 15 | 84,975,000 | 85,125,000 | 1134 | 525 | 0.504772477 | B3GAT1,GLB1L2 |
| 15 | 85,050,000 | 85,200,000 | 1135 | 593 | 0.847896408 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 15 | 85,125,000 | 85,275,000 | 1136 | 536 | 0.92083446 | ENSBTAG00000048316 |
| 15 | 85,200,000 | 85,296,676 | 1137 | 244 | -0.761260868 | ENSBTAG00000048316 |
| 16 | 0 | 150,000 | 1 | 402 | 0.767286107 | |
| 16 | 75,000 | 225,000 | 2 | 405 | 0.940748987 | |
| 16 | 150,000 | 300,000 | 3 | 351 | 0.832861528 | ENSBTAG00000035659 |
| 16 | 225,000 | 375,000 | 4 | 492 | 0.404959146 | ENSBTAG00000015517,ENSBTAG00000035659 |
| 16 | 300,000 | 450,000 | 5 | 831 | 0.437250194 | ENSBTAG00000015517,ENSBTAG00000039944,ENSBTAG0000047603 |
| 16 | 375,000 | 525,000 | 6 | 917 | 0.496863394 | TMEM183,ENSBTAG00000039944,ENSBTAG00000047603 |
| 16 | 450,000 | 600,000 | 7 | 847 | 0.744261103 | MYOG,PPFIA4,TMEM183 |
| 16 | 525,000 | 675,000 | 8 | 702 | 0.607005253 | MYOG,PPFIA4,TMEM183 |
| 16 | 600,000 | 750,000 | 9 | 488 | -0.224509017 | ADORA1 |
| 16 | 675,000 | 825,000 | 10 | 559 | 0.07968206 | ADORA1,CHI3L1,MYBPH |
| 16 | 750,000 | 900,000 | 11 | 867 | 0.147661206 | ADORA1,BTG2,CHI3L1,MYBPH |
| 16 | 825,000 | 975,000 | 12 | 1040 | 0.267907554 | BTG2,FMOD |
| 16 | 900,000 | 1,050,000 | 13 | 1092 | 0.564787746 | FMOD,PRELP |
| 16 | 975,000 | 1,125,000 | 14 | 786 | 0.469598016 | OPTC,PRELP |
| 16 | 1,050,000 | 1,200,000 | 15 | 628 | -0.333211434 | OPTC,PRELP |
| 16 | 1,125,000 | 1,275,000 | 16 | 675 | -0.212424906 | ATP2B4 |
| 16 | 1,200,000 | 1,350,000 | 17 | 498 | -0.64356709 | ATP2B4,LAX1 |
| 16 | 1,275,000 | 1,425,000 | 18 | 431 | -0.760468366 | ATP2B4,LAX1,ZBED6,ZC3H11A |
| 16 | 1,350,000 | 1,500,000 | 19 | 795 | -0.284322444 | ZBED6,ZC3H11A |
| 16 | 1,425,000 | 1,575,000 | 20 | 1153 | -0.084060856 | ZC3H11A |
| 16 | 1,500,000 | 1,650,000 | 21 | 895 | 0.341025175 | |
| 16 | 1,575,000 | 1,725,000 | 22 | 601 | -0.048237333 | SOX13 |
| 16 | 1,650,000 | 1,800,000 | 23 | 471 | -0.724401389 | ETNK2,GOLT1A,KISS1,REN,SOX13 |
| 16 | 1,725,000 | 1,875,000 | 24 | 380 | -0.207569911 | ETNK2,GOLT1A,KISS1,PLEKHA6,REN,SOX13 |
| 16 | 1,800,000 | 1,950,000 | 25 | 646 | 0.013113882 | PLEKHA6 |
| 16 | 1,875,000 | 2,025,000 | 26 | 960 | 0.256053506 | PIK3C2B,PLEKHA6,PPP1R15B |
| 16 | 1,950,000 | 2,100,000 | 27 | 798 | 0.585151253 | MDM4,PIK3C2B,PPP1R15B |
| 16 | 2,025,000 | 2,175,000 | 28 | 883 | 0.892188233 | MDM4,PIK3C2B,ENSBTAG00000026068,ENSBTAG00000034611 |
| 16 | 2,100,000 | 2,250,000 | 29 | 1378 | 1.169286413 | LRRN5,MDM4,ENSBTAG00000026068,ENSBTAG00000034611 |
| 16 | 2,175,000 | 2,325,000 | 30 | 1419 | 1.078582679 | LRRN5 |
| 16 | 2,250,000 | 2,400,000 | 31 | 1654 | 0.759068046 | |
| 16 | 2,325,000 | 2,475,000 | 32 | 2129 | 0.817599495 | |
| 16 | 2,400,000 | 2,550,000 | 33 | 1898 | 0.455532714 | |
| 16 | 2,475,000 | 2,625,000 | 34 | 1449 | 0.0615062 | NFASC |
| 16 | 2,550,000 | 2,700,000 | 35 | 1136 | 0.556008487 | CNTN2,NFASC,RBBP5,TMEM81 |
| 16 | 2,625,000 | 2,775,000 | 36 | 891 | 0.814542141 | CNTN2,DSTYK,NFASC,RBBP5,TMEM81 |
| 16 | 2,700,000 | 2,850,000 | 37 | 884 | 0.95246887 | DSTYK,RBBP5,TMCC2 |
| 16 | 2,775,000 | 2,925,000 | 38 | 968 | 1.036782024 | DSTYK,NUAK2,TMCC2 |
| 16 | 2,850,000 | 3,000,000 | 39 | 1211 | 0.911407962 | KLHDC8A,LEMD1,NUAK2,TMCC2 |
| 16 | 2,925,000 | 3,075,000 | 40 | 1251 | 0.505700957 | KLHDC8A,LEMD1 |
| 16 | 3,000,000 | 3,150,000 | 41 | 933 | -0.063101872 | LEMD1,PCTK3 |
| 16 | 3,075,000 | 3,225,000 | 42 | 812 | 0.334235386 | ELK4,MFSD4,PCTK3 |
| 16 | 3,150,000 | 3,300,000 | 43 | 700 | 0.732325674 | ELK4,MFSD4,SLC45A3 |
| 16 | 3,225,000 | 3,375,000 | 44 | 694 | 0.871533018 | NUCKS1,RAB7L1,SLC41A1,SLC45A3 |
| 16 | 3,300,000 | 3,450,000 | 45 | 732 | 0.60410318 | NUCKS1,PM20D1,RAB7L1,SLC41A1 |
| 16 | 3,375,000 | 3,525,000 | 46 | 788 | 0.241350785 | PM20D1,SLC26A9,SLC41A1 |
| 16 | 3,450,000 | 3,600,000 | 47 | 939 | 0.478796275 | PM20D1,RAB7B,SLC26A9 |
| 16 | 3,525,000 | 3,675,000 | 48 | 1298 | 0.216812477 | RAB7B |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---|
| 16 | 3,600,000 | 3,750,000 | 49 | 987 | -0.034357273 | AVPR1B,C1orf186,RAB7B |
| 16 | 3,675,000 | 3,825,000 | 50 | 625 | 0.184207363 | AVPR1B,C1orf186 |
| 16 | 3,750,000 | 3,900,000 | 51 | 912 | 0.677652578 | FAM72A |
| 16 | 3,825,000 | 3,975,000 | 52 | 835 | 1.003706692 | FAM72A |
| 16 | 3,900,000 | 4,050,000 | 53 | 794 | 0.858072761 | ENSBTAG00000001483 |
| 16 | 3,975,000 | 4,125,000 | 54 | 1008 | 0.179739048 | IKBKE,ENSBTAG00000001483 |
| 16 | 4,050,000 | 4,200,000 | 55 | 1146 | -1.688580138 | IKBKE,RASSF5,ENSBTAG00000001483 |
| 16 | 4,125,000 | 4,275,000 | 56 | 1113 | -1.227138289 | DYRK3,EIF2D,IKBKE,RASSF5 |
| 16 | 4,200,000 | 4,350,000 | 57 | 1081 | 0.83242188 | DYRK3,EIF2D,MAPKAPK2,RASSF5 |
| 16 | 4,275,000 | 4,425,000 | 58 | 1106 | 0.83864812 | DYRK3,IL10,MAPKAPK2 |
| 16 | 4,350,000 | 4,500,000 | 59 | 850 | 0.407111503 | IL10,IL19,MAPKAPK2 |
| 16 | 4,425,000 | 4,575,000 | 60 | 771 | -0.109568402 | FCAMR,IL19,IL20,PIGR |
| 16 | 4,500,000 | 4,650,000 | 61 | 818 | -0.194477335 | FAIM3,FCAMR,IL20,IL24,PIGR |
| 16 | 4,575,000 | 4,725,000 | 62 | 386 | 0.032466081 | FAIM3,IL24,SARG,YOD1 |
| 16 | 4,650,000 | 4,800,000 | 63 | 385 | 0.385051789 | C4BPA,C4BPB,PFKFB2,SARG,YOD1 |
| 16 | 4,725,000 | 4,875,000 | 64 | 661 | 0.755511514 | C4BPA,C4BPB,PFKFB2 |
| 16 | 4,800,000 | 4,950,000 | 65 | 870 | 1.026199976 | C4BPA,ENSBTAG000000039196 |
| 16 | 4,875,000 | 5,025,000 | 66 | 1253 | 0.72834672 | ENSBTAG000000039196,ENSBTAG000000047621 |
| 16 | 4,950,000 | 5,100,000 | 67 | 1196 | 0.618537401 | ENSBTAG000000039196,ENSBTAG000000047621 |
| 16 | 5,025,000 | 5,175,000 | 68 | 982 | 0.673909637 | CD55 |
| 16 | 5,100,000 | 5,250,000 | 69 | 865 | 0.442222415 | CD55 |
| 16 | 5,175,000 | 5,325,000 | 70 | 818 | 0.067996652 | CR2 |
| 16 | 5,250,000 | 5,400,000 | 71 | 1185 | 0.325795135 | CR2 |
| 16 | 5,325,000 | 5,475,000 | 72 | 1519 | 0.621153214 | |
| 16 | 5,400,000 | 5,550,000 | 73 | 1627 | 0.775777249 | ENSBTAG000000023177 |
| 16 | 5,475,000 | 5,625,000 | 74 | 1891 | -0.062399083 | ENSBTAG000000023177,ENSBTAG000000024647 |
| 16 | 5,550,000 | 5,700,000 | 75 | 2205 | -1.200262677 | ENSBTAG000000023177,ENSBTAG000000024647 |
| 16 | 5,625,000 | 5,775,000 | 76 | 2704 | -0.76623885 | ENSBTAG000000024647 |
| 16 | 5,700,000 | 5,850,000 | 77 | 2544 | 0.318617165 | ENSBTAG000000024647,ENSBTAG000000040409 |
| 16 | 5,775,000 | 5,925,000 | 78 | 2286 | 0.590565258 | ENSBTAG000000024647,ENSBTAG000000040409 |
| 16 | 5,850,000 | 6,000,000 | 79 | 2279 | 0.509571744 | ENSBTAG000000024647,ENSBTAG000000040409 |
| 16 | 5,925,000 | 6,075,000 | 80 | 2235 | 0.622991777 | CFH,ENSBTAG000000024647 |
| 16 | 6,000,000 | 6,150,000 | 81 | 2510 | 0.568497685 | CFH |
| 16 | 6,075,000 | 6,225,000 | 82 | 2061 | 0.581776982 | CFH |
| 16 | 6,150,000 | 6,300,000 | 83 | 1372 | 0.85150485 | |
| 16 | 6,225,000 | 6,375,000 | 84 | 1161 | 1.092049948 | KCNT2 |
| 16 | 6,300,000 | 6,450,000 | 85 | 1037 | 0.868701665 | KCNT2 |
| 16 | 6,375,000 | 6,525,000 | 86 | 1027 | 0.959152293 | KCNT2 |
| 16 | 6,450,000 | 6,600,000 | 87 | 1046 | 0.651965983 | KCNT2 |
| 16 | 6,525,000 | 6,675,000 | 88 | 728 | -0.898270096 | KCNT2 |
| 16 | 6,600,000 | 6,750,000 | 89 | 642 | -1.268733507 | KCNT2 |
| 16 | 6,675,000 | 6,825,000 | 90 | 673 | 0.177002232 | |
| 16 | 6,750,000 | 6,900,000 | 91 | 824 | -0.125441285 | |
| 16 | 6,825,000 | 6,975,000 | 92 | 748 | -0.128899103 | |
| 16 | 6,900,000 | 7,050,000 | 93 | 410 | 0.222135672 | |
| 16 | 6,975,000 | 7,125,000 | 94 | 780 | -0.104358765 | |
| 16 | 7,050,000 | 7,200,000 | 95 | 838 | -0.049441234 | |
| 16 | 7,125,000 | 7,275,000 | 96 | 473 | 0.231435695 | |
| 16 | 7,200,000 | 7,350,000 | 97 | 482 | 0.22326257 | |
| 16 | 7,275,000 | 7,425,000 | 98 | 708 | 0.312611804 | |
| 16 | 7,350,000 | 7,500,000 | 99 | 845 | 0.046455956 | |
| 16 | 7,425,000 | 7,575,000 | 100 | 821 | -0.192684677 | |
| 16 | 7,500,000 | 7,650,000 | 101 | 711 | -0.188840134 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 16 | 7,575,000 | 7,725,000 | 102 | 530 | 0.116297321 | |
| 16 | 7,650,000 | 7,800,000 | 103 | 1026 | 0.552288918 | |
| 16 | 7,725,000 | 7,875,000 | 104 | 1393 | 0.500941946 | |
| 16 | 7,800,000 | 7,950,000 | 105 | 1247 | 0.534449948 | |
| 16 | 7,875,000 | 8,025,000 | 106 | 1170 | 0.954915032 | |
| 16 | 7,950,000 | 8,100,000 | 107 | 1199 | 0.975079698 | |
| 16 | 8,025,000 | 8,175,000 | 108 | 1437 | 1.045033566 | |
| 16 | 8,100,000 | 8,250,000 | 109 | 1479 | 1.294640431 | ENSBTAG00000025113 |
| 16 | 8,175,000 | 8,325,000 | 110 | 978 | 1.134702534 | ENSBTAG00000025113 |
| 16 | 8,250,000 | 8,400,000 | 111 | 974 | 0.340594131 | |
| 16 | 8,325,000 | 8,475,000 | 112 | 1550 | 0.488308152 | |
| 16 | 8,400,000 | 8,550,000 | 113 | 1483 | 0.715225228 | |
| 16 | 8,475,000 | 8,625,000 | 114 | 1116 | 0.548011889 | |
| 16 | 8,550,000 | 8,700,000 | 115 | 1223 | 0.851313674 | |
| 16 | 8,625,000 | 8,775,000 | 116 | 1632 | 1.012289538 | |
| 16 | 8,700,000 | 8,850,000 | 117 | 1226 | 0.756320389 | |
| 16 | 8,775,000 | 8,925,000 | 118 | 1024 | 0.413615371 | |
| 16 | 8,850,000 | 9,000,000 | 119 | 1630 | 0.370244855 | |
| 16 | 8,925,000 | 9,075,000 | 120 | 1669 | 0.663817326 | |
| 16 | 9,000,000 | 9,150,000 | 121 | 1579 | 0.424768265 | |
| 16 | 9,075,000 | 9,225,000 | 122 | 1480 | -0.086112343 | |
| 16 | 9,150,000 | 9,300,000 | 123 | 1365 | 0.14220495 | |
| 16 | 9,225,000 | 9,375,000 | 124 | 1435 | 0.330871853 | |
| 16 | 9,300,000 | 9,450,000 | 125 | 1496 | 0.347348034 | |
| 16 | 9,375,000 | 9,525,000 | 126 | 1115 | 0.303929027 | |
| 16 | 9,450,000 | 9,600,000 | 127 | 848 | 0.379967155 | |
| 16 | 9,525,000 | 9,675,000 | 128 | 1352 | 1.008876365 | |
| 16 | 9,600,000 | 9,750,000 | 129 | 1470 | 0.917983053 | |
| 16 | 9,675,000 | 9,825,000 | 130 | 1709 | -0.691150959 | |
| 16 | 9,750,000 | 9,900,000 | 131 | 1777 | -0.159867389 | |
| 16 | 9,825,000 | 9,975,000 | 132 | 1136 | 0.569617402 | |
| 16 | 9,900,000 | 10,050,000 | 133 | 1219 | -2.245049417 | |
| 16 | 9,975,000 | 10,125,000 | 134 | 1518 | -2.045258982 | |
| 16 | 10,050,000 | 10,200,000 | 135 | 1520 | 0.157869971 | |
| 16 | 10,125,000 | 10,275,000 | 136 | 1627 | 0.613567208 | |
| 16 | 10,200,000 | 10,350,000 | 137 | 1377 | 0.479862375 | |
| 16 | 10,275,000 | 10,425,000 | 138 | 1524 | -0.103159505 | |
| 16 | 10,350,000 | 10,500,000 | 139 | 1698 | -1.999643614 | |
| 16 | 10,425,000 | 10,575,000 | 140 | 1545 | -3.595461393 | |
| 16 | 10,500,000 | 10,650,000 | 141 | 1307 | -2.574584192 | |
| 16 | 10,575,000 | 10,725,000 | 142 | 1165 | 0.575961009 | |
| 16 | 10,650,000 | 10,800,000 | 143 | 1070 | 0.577650069 | |
| 16 | 10,725,000 | 10,875,000 | 144 | 978 | 0.550224012 | |
| 16 | 10,800,000 | 10,950,000 | 145 | 1219 | 0.346136352 | |
| 16 | 10,875,000 | 11,025,000 | 146 | 1201 | 0.495958245 | |
| 16 | 10,950,000 | 11,100,000 | 147 | 1058 | -1.11052781 | ENSBTAG00000014862 |
| 16 | 11,025,000 | 11,175,000 | 148 | 1222 | -0.975473072 | ENSBTAG00000014862 |
| 16 | 11,100,000 | 11,250,000 | 149 | 1406 | -0.104499894 | |
| 16 | 11,175,000 | 11,325,000 | 150 | 1317 | 0.483136098 | |
| 16 | 11,250,000 | 11,400,000 | 151 | 1578 | 0.742882975 | |
| 16 | 11,325,000 | 11,475,000 | 152 | 1677 | 0.350724116 | |
| 16 | 11,400,000 | 11,550,000 | 153 | 1540 | 0.295928459 | |
| 16 | 11,475,000 | 11,625,000 | 154 | 1580 | 0.72520215 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 11,550,000 | 11,700,000 | 155 | 1468 | 0.652171081 | |
| 16 | 11,625,000 | 11,775,000 | 156 | 1485 | 0.071375734 | |
| 16 | 11,700,000 | 11,850,000 | 157 | 1431 | -0.047632893 | |
| 16 | 11,775,000 | 11,925,000 | 158 | 1159 | 0.381707828 | |
| 16 | 11,850,000 | 12,000,000 | 159 | 1019 | 0.759246581 | |
| 16 | 11,925,000 | 12,075,000 | 160 | 965 | 1.051140297 | |
| 16 | 12,000,000 | 12,150,000 | 161 | 935 | 0.216168481 | |
| 16 | 12,075,000 | 12,225,000 | 162 | 688 | -0.640716854 | |
| 16 | 12,150,000 | 12,300,000 | 163 | 660 | 0.373645961 | |
| 16 | 12,225,000 | 12,375,000 | 164 | 796 | 0.585562843 | |
| 16 | 12,300,000 | 12,450,000 | 165 | 564 | 0.902964857 | |
| 16 | 12,375,000 | 12,525,000 | 166 | 980 | 0.748234003 | |
| 16 | 12,450,000 | 12,600,000 | 167 | 1482 | 0.031848948 | ENSBTAG00000012765 |
| 16 | 12,525,000 | 12,675,000 | 168 | 889 | -1.277991092 | CDC73,ENSBTAG00000012765,ENSBTAG00000046060 |
| 16 | 12,600,000 | 12,750,000 | 169 | 289 | -1.610309453 | B3GALT2,CDC73,ENSBTAG00000046060 |
| 16 | 12,675,000 | 12,825,000 | 170 | 249 | -0.462361384 | B3GALT2,CDC73,GLRX2,TROVE2,UCHL5 |
| 16 | 12,750,000 | 12,900,000 | 171 | 313 | 0.408973322 | GLRX2,TROVE2,UCHL5 |
| 16 | 12,825,000 | 12,975,000 | 172 | 418 | 0.862082614 | UCHL5 |
| 16 | 12,900,000 | 13,050,000 | 173 | 720 | 0.819792971 | RGS2 |
| 16 | 12,975,000 | 13,125,000 | 174 | 631 | 0.582342847 | RGS2 |
| 16 | 13,050,000 | 13,200,000 | 175 | 386 | -0.696183591 | |
| 16 | 13,125,000 | 13,275,000 | 176 | 590 | -0.167246548 | RGS13 |
| 16 | 13,200,000 | 13,350,000 | 177 | 897 | 0.478951336 | RGS1,RGS13 |
| 16 | 13,275,000 | 13,425,000 | 178 | 896 | 0.333370571 | RGS1 |
| 16 | 13,350,000 | 13,500,000 | 179 | 854 | 0.31192165 | |
| 16 | 13,425,000 | 13,575,000 | 180 | 919 | 0.224682793 | RGS21 |
| 16 | 13,500,000 | 13,650,000 | 181 | 741 | -0.453526042 | RGS21 |
| 16 | 13,575,000 | 13,725,000 | 182 | 1076 | -0.778076377 | |
| 16 | 13,650,000 | 13,800,000 | 183 | 1425 | -0.387163763 | RGS18 |
| 16 | 13,725,000 | 13,875,000 | 184 | 1147 | -0.112040579 | RGS18 |
| 16 | 13,800,000 | 13,950,000 | 185 | 923 | 0.71245612 | |
| 16 | 13,875,000 | 14,025,000 | 186 | 1618 | 1.393820661 | |
| 16 | 13,950,000 | 14,100,000 | 187 | 1906 | 1.230996607 | |
| 16 | 14,025,000 | 14,175,000 | 188 | 1488 | 0.702760739 | |
| 16 | 14,100,000 | 14,250,000 | 189 | 1666 | 0.282942443 | |
| 16 | 14,175,000 | 14,325,000 | 190 | 1453 | 0.233389103 | |
| 16 | 14,250,000 | 14,400,000 | 191 | 1023 | -0.484570437 | |
| 16 | 14,325,000 | 14,475,000 | 192 | 1345 | -0.981665831 | |
| 16 | 14,400,000 | 14,550,000 | 193 | 1559 | -0.197745348 | |
| 16 | 14,475,000 | 14,625,000 | 194 | 1119 | 0.391219353 | |
| 16 | 14,550,000 | 14,700,000 | 195 | 676 | 0.680197377 | |
| 16 | 14,625,000 | 14,775,000 | 196 | 717 | 0.399336176 | |
| 16 | 14,700,000 | 14,850,000 | 197 | 1138 | 0.856371373 | |
| 16 | 14,775,000 | 14,925,000 | 198 | 1149 | 0.543103701 | |
| 16 | 14,850,000 | 15,000,000 | 199 | 1128 | -0.679971258 | |
| 16 | 14,925,000 | 15,075,000 | 200 | 946 | -0.505600902 | |
| 16 | 15,000,000 | 15,150,000 | 201 | 1058 | 0.618412886 | |
| 16 | 15,075,000 | 15,225,000 | 202 | 1145 | 0.236213026 | |
| 16 | 15,150,000 | 15,300,000 | 203 | 883 | 0.232200283 | |
| 16 | 15,225,000 | 15,375,000 | 204 | 1073 | 0.29849028 | |
| 16 | 15,300,000 | 15,450,000 | 205 | 1054 | -0.16058559 | |
| 16 | 15,375,000 | 15,525,000 | 206 | 716 | 0.18211161 | |
| 16 | 15,450,000 | 15,600,000 | 207 | 691 | 0.682069982 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 16 | 15,525,000 | 15,675,000 | 208 | 1157 | 0.847710386 | |
| 16 | 15,600,000 | 15,750,000 | 209 | 1329 | 0.301995446 | |
| 16 | 15,675,000 | 15,825,000 | 210 | 966 | -0.270932348 | BRINP3 |
| 16 | 15,750,000 | 15,900,000 | 211 | 615 | 0.398597718 | BRINP3 |
| 16 | 15,825,000 | 15,975,000 | 212 | 498 | 0.52009025 | BRINP3 |
| 16 | 15,900,000 | 16,050,000 | 213 | 720 | -0.970415385 | BRINP3 |
| 16 | 15,975,000 | 16,125,000 | 214 | 794 | -1.09575576 | BRINP3 |
| 16 | 16,050,000 | 16,200,000 | 215 | 719 | -0.192353874 | BRINP3 |
| 16 | 16,125,000 | 16,275,000 | 216 | 1142 | -1.029452441 | BRINP3 |
| 16 | 16,200,000 | 16,350,000 | 217 | 1342 | -1.460090155 | BRINP3 |
| 16 | 16,275,000 | 16,425,000 | 218 | 1218 | -0.939666121 | |
| 16 | 16,350,000 | 16,500,000 | 219 | 1167 | 0.074071559 | |
| 16 | 16,425,000 | 16,575,000 | 220 | 1091 | 0.692937937 | |
| 16 | 16,500,000 | 16,650,000 | 221 | 943 | -0.020609825 | |
| 16 | 16,575,000 | 16,725,000 | 222 | 783 | -1.20069514 | |
| 16 | 16,650,000 | 16,800,000 | 223 | 593 | -1.393274297 | |
| 16 | 16,725,000 | 16,875,000 | 224 | 573 | -2.084782756 | |
| 16 | 16,800,000 | 16,950,000 | 225 | 777 | -1.000147963 | |
| 16 | 16,875,000 | 17,025,000 | 226 | 938 | 0.546220696 | |
| 16 | 16,950,000 | 17,100,000 | 227 | 1165 | 0.661902291 | |
| 16 | 17,025,000 | 17,175,000 | 228 | 1020 | 0.83345208 | |
| 16 | 17,100,000 | 17,250,000 | 229 | 1064 | -0.323554126 | |
| 16 | 17,175,000 | 17,325,000 | 230 | 1352 | -0.259031279 | |
| 16 | 17,250,000 | 17,400,000 | 231 | 1475 | 0.269096924 | |
| 16 | 17,325,000 | 17,475,000 | 232 | 1470 | 0.50273448 | |
| 16 | 17,400,000 | 17,550,000 | 233 | 1262 | 0.591876328 | |
| 16 | 17,475,000 | 17,625,000 | 234 | 1209 | 0.925543783 | |
| 16 | 17,550,000 | 17,700,000 | 235 | 1190 | 1.012960749 | |
| 16 | 17,625,000 | 17,775,000 | 236 | 1245 | 1.023200362 | |
| 16 | 17,700,000 | 17,850,000 | 237 | 1491 | 0.180451509 | |
| 16 | 17,775,000 | 17,925,000 | 238 | 1262 | -1.022865723 | |
| 16 | 17,850,000 | 18,000,000 | 239 | 896 | -2.72307578 | |
| 16 | 17,925,000 | 18,075,000 | 240 | 1033 | -2.284055494 | |
| 16 | 18,000,000 | 18,150,000 | 241 | 1352 | -0.939890127 | |
| 16 | 18,075,000 | 18,225,000 | 242 | 1441 | 0.270806542 | |
| 16 | 18,150,000 | 18,300,000 | 243 | 1563 | 0.357938004 | |
| 16 | 18,225,000 | 18,375,000 | 244 | 1826 | 0.155124334 | |
| 16 | 18,300,000 | 18,450,000 | 245 | 1579 | 0.473264474 | ENSBTAG00000046655 |
| 16 | 18,375,000 | 18,525,000 | 246 | 1234 | 0.129192067 | ENSBTAG00000046655 |
| 16 | 18,450,000 | 18,600,000 | 247 | 908 | -0.366049348 | |
| 16 | 18,525,000 | 18,675,000 | 248 | 1248 | 0.309455153 | |
| 16 | 18,600,000 | 18,750,000 | 249 | 1570 | 0.108773201 | |
| 16 | 18,675,000 | 18,825,000 | 250 | 1294 | 0.210156476 | |
| 16 | 18,750,000 | 18,900,000 | 251 | 1017 | 0.859231714 | |
| 16 | 18,825,000 | 18,975,000 | 252 | 699 | 0.785041635 | |
| 16 | 18,900,000 | 19,050,000 | 253 | 879 | 0.960516504 | |
| 16 | 18,975,000 | 19,125,000 | 254 | 1161 | 0.031503613 | |
| 16 | 19,050,000 | 19,200,000 | 255 | 1353 | -2.628509147 | |
| 16 | 19,125,000 | 19,275,000 | 256 | 1276 | -1.893024545 | |
| 16 | 19,200,000 | 19,350,000 | 257 | 871 | -0.507665761 | |
| 16 | 19,275,000 | 19,425,000 | 258 | 678 | -0.245847314 | |
| 16 | 19,350,000 | 19,500,000 | 259 | 795 | 0.919613819 | |
| 16 | 19,425,000 | 19,575,000 | 260 | 803 | 1.081086998 | KCTD3,USH2A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 16 | 19,500,000 | 19,650,000 | 261 | 589 | 1.300527326 | KCTD3,USH2A |
| 16 | 19,575,000 | 19,725,000 | 262 | 917 | 1.15662284 | USH2A |
| 16 | 19,650,000 | 19,800,000 | 263 | 1156 | 0.756164442 | USH2A |
| 16 | 19,725,000 | 19,875,000 | 264 | 1151 | 0.404074676 | USH2A |
| 16 | 19,800,000 | 19,950,000 | 265 | 972 | -0.11092284 | USH2A,ENSBTAG00000007997 |
| 16 | 19,875,000 | 20,025,000 | 266 | 810 | -1.579315961 | USH2A,ENSBTAG00000007997 |
| 16 | 19,950,000 | 20,100,000 | 267 | 996 | -3.155492303 | USH2A |
| 16 | 20,025,000 | 20,175,000 | 268 | 1145 | -3.50326826 | USH2A |
| 16 | 20,100,000 | 20,250,000 | 269 | 1119 | -2.375955912 | USH2A |
| 16 | 20,175,000 | 20,325,000 | 270 | 1206 | -0.84567615 | USH2A |
| 16 | 20,250,000 | 20,400,000 | 271 | 1111 | 0.075744777 | USH2A |
| 16 | 20,325,000 | 20,475,000 | 272 | 819 | 0.591063195 | USH2A |
| 16 | 20,400,000 | 20,550,000 | 273 | 1161 | 1.098353307 | USH2A |
| 16 | 20,475,000 | 20,625,000 | 274 | 1128 | 0.827636846 | ESRRG,USH2A |
| 16 | 20,550,000 | 20,700,000 | 275 | 847 | -0.330093309 | ESRRG |
| 16 | 20,625,000 | 20,775,000 | 276 | 887 | -0.191015891 | ESRRG |
| 16 | 20,700,000 | 20,850,000 | 277 | 835 | 0.153038218 | ESRRG |
| 16 | 20,775,000 | 20,925,000 | 278 | 895 | 0.535230472 | ESRRG |
| 16 | 20,850,000 | 21,000,000 | 279 | 1056 | 1.008154835 | |
| 16 | 20,925,000 | 21,075,000 | 280 | 1122 | 0.475843983 | |
| 16 | 21,000,000 | 21,150,000 | 281 | 1122 | 0.217452961 | |
| 16 | 21,075,000 | 21,225,000 | 282 | 910 | 0.113057564 | |
| 16 | 21,150,000 | 21,300,000 | 283 | 716 | -1.787945515 | |
| 16 | 21,225,000 | 21,375,000 | 284 | 515 | -1.946502788 | |
| 16 | 21,300,000 | 21,450,000 | 285 | 772 | 0.228925895 | |
| 16 | 21,375,000 | 21,525,000 | 286 | 1277 | 0.591349781 | |
| 16 | 21,450,000 | 21,600,000 | 287 | 1218 | 0.74360437 | |
| 16 | 21,525,000 | 21,675,000 | 288 | 1232 | 0.779487754 | |
| 16 | 21,600,000 | 21,750,000 | 289 | 1034 | 0.649558265 | |
| 16 | 21,675,000 | 21,825,000 | 290 | 1007 | -0.412800437 | GPATCH2 |
| 16 | 21,750,000 | 21,900,000 | 291 | 1205 | -0.338341498 | GPATCH2 |
| 16 | 21,825,000 | 21,975,000 | 292 | 967 | 0.479898637 | |
| 16 | 21,900,000 | 22,050,000 | 293 | 1043 | 0.79961498 | |
| 16 | 21,975,000 | 22,125,000 | 294 | 1170 | -0.147715278 | |
| 16 | 22,050,000 | 22,200,000 | 295 | 1083 | -0.910854995 | |
| 16 | 22,125,000 | 22,275,000 | 296 | 1418 | -0.059416683 | |
| 16 | 22,200,000 | 22,350,000 | 297 | 1189 | 0.722103055 | |
| 16 | 22,275,000 | 22,425,000 | 298 | 603 | 0.625278286 | |
| 16 | 22,350,000 | 22,500,000 | 299 | 444 | 0.074472799 | RRP15,TGFB2 |
| 16 | 22,425,000 | 22,575,000 | 300 | 568 | 0.08888867 | RRP15,TGFB2 |
| 16 | 22,500,000 | 22,650,000 | 301 | 593 | 0.327978902 | TGFB2 |
| 16 | 22,575,000 | 22,725,000 | 302 | 443 | 0.911444988 | TGFB2 |
| 16 | 22,650,000 | 22,800,000 | 303 | 580 | 0.958849827 | |
| 16 | 22,725,000 | 22,875,000 | 304 | 488 | 0.83389194 | |
| 16 | 22,800,000 | 22,950,000 | 305 | 288 | 0.964785091 | |
| 16 | 22,875,000 | 23,025,000 | 306 | 367 | 1.128011226 | |
| 16 | 22,950,000 | 23,100,000 | 307 | 440 | 0.934666468 | |
| 16 | 23,025,000 | 23,175,000 | 308 | 484 | 0.289665178 | |
| 16 | 23,100,000 | 23,250,000 | 309 | 994 | 0.148814092 | |
| 16 | 23,175,000 | 23,325,000 | 310 | 1157 | 0.393321841 | |
| 16 | 23,250,000 | 23,400,000 | 311 | 693 | 0.422975626 | LYPLAL1 |
| 16 | 23,325,000 | 23,475,000 | 312 | 455 | -0.185083141 | LYPLAL1 |
| 16 | 23,400,000 | 23,550,000 | 313 | 557 | 0.314815138 | |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---------------------------|
| 16 | 23,475,000 | 23,625,000 | 314 | 579 | 0.432031479 | |
| 16 | 23,550,000 | 23,700,000 | 315 | 683 | 0.328048999 | |
| 16 | 23,625,000 | 23,775,000 | 316 | 789 | 0.783421286 | |
| 16 | 23,700,000 | 23,850,000 | 317 | 749 | 0.98067345 | |
| 16 | 23,775,000 | 23,925,000 | 318 | 718 | 0.344345079 | |
| 16 | 23,850,000 | 24,000,000 | 319 | 972 | -1.047017346 | |
| 16 | 23,925,000 | 24,075,000 | 320 | 800 | -1.277966944 | |
| 16 | 24,000,000 | 24,150,000 | 321 | 393 | -2.516152975 | SLC30A10 |
| 16 | 24,075,000 | 24,225,000 | 322 | 401 | -2.752671168 | EPRS,SLC30A10 |
| 16 | 24,150,000 | 24,300,000 | 323 | 545 | -1.825625893 | BPNT1,EPRS,IARS2 |
| 16 | 24,225,000 | 24,375,000 | 324 | 732 | -1.799733368 | BPNT1,EPRS,IARS2,RAB3GAP2 |
| 16 | 24,300,000 | 24,450,000 | 325 | 511 | -1.468079246 | IARS2,RAB3GAP2 |
| 16 | 24,375,000 | 24,525,000 | 326 | 548 | 0.56750123 | RAB3GAP2 |
| 16 | 24,450,000 | 24,600,000 | 327 | 707 | 0.953161709 | |
| 16 | 24,525,000 | 24,675,000 | 328 | 739 | -0.27001553 | |
| 16 | 24,600,000 | 24,750,000 | 329 | 588 | -1.311561752 | |
| 16 | 24,675,000 | 24,825,000 | 330 | 352 | -0.440982183 | MARK1 |
| 16 | 24,750,000 | 24,900,000 | 331 | 400 | -0.587786672 | C16H1orf115,MARK1 |
| 16 | 24,825,000 | 24,975,000 | 332 | 540 | -0.209579284 | C16H1orf115,MARC2,MARK1 |
| 16 | 24,900,000 | 25,050,000 | 333 | 750 | 0.551273622 | MARC1,MARC2 |
| 16 | 24,975,000 | 25,125,000 | 334 | 620 | 0.297721325 | HLX,MARC1 |
| 16 | 25,050,000 | 25,200,000 | 335 | 482 | 0.198681666 | HLX |
| 16 | 25,125,000 | 25,275,000 | 336 | 468 | 0.462290429 | |
| 16 | 25,200,000 | 25,350,000 | 337 | 326 | 0.329391505 | |
| 16 | 25,275,000 | 25,425,000 | 338 | 318 | 0.152534502 | |
| 16 | 25,350,000 | 25,500,000 | 339 | 266 | 0.307749152 | |
| 16 | 25,425,000 | 25,575,000 | 340 | 294 | 0.764573354 | |
| 16 | 25,500,000 | 25,650,000 | 341 | 443 | 0.498423205 | |
| 16 | 25,575,000 | 25,725,000 | 342 | 676 | 0.139388064 | |
| 16 | 25,650,000 | 25,800,000 | 343 | 630 | -0.501826144 | |
| 16 | 25,725,000 | 25,875,000 | 344 | 368 | -1.019269376 | |
| 16 | 25,800,000 | 25,950,000 | 345 | 367 | 0.337716 | DUSP10 |
| 16 | 25,875,000 | 26,025,000 | 346 | 432 | 0.642946159 | DUSP10 |
| 16 | 25,950,000 | 26,100,000 | 347 | 391 | -0.173452747 | |
| 16 | 26,025,000 | 26,175,000 | 348 | 271 | -0.857474962 | |
| 16 | 26,100,000 | 26,250,000 | 349 | 252 | -1.018358806 | |
| 16 | 26,175,000 | 26,325,000 | 350 | 290 | -0.557997094 | |
| 16 | 26,250,000 | 26,400,000 | 351 | 433 | 1.446341613 | |
| 16 | 26,325,000 | 26,475,000 | 352 | 654 | 1.478373054 | |
| 16 | 26,400,000 | 26,550,000 | 353 | 834 | 1.426728439 | |
| 16 | 26,475,000 | 26,625,000 | 354 | 952 | 1.404256862 | |
| 16 | 26,550,000 | 26,700,000 | 355 | 742 | 1.335715074 | |
| 16 | 26,625,000 | 26,775,000 | 356 | 799 | 0.864546578 | HHIPL2,TAF1A |
| 16 | 26,700,000 | 26,850,000 | 357 | 662 | 0.629838545 | HHIPL2,MIA3,TAF1A |
| 16 | 26,775,000 | 26,925,000 | 358 | 408 | 0.620216091 | AIDA,BROX,MIA3,TAF1A |
| 16 | 26,850,000 | 27,000,000 | 359 | 658 | 1.16250861 | AIDA,BROX,MIA3 |
| 16 | 26,925,000 | 27,075,000 | 360 | 737 | 0.651708569 | AUH,BROX |
| 16 | 27,000,000 | 27,150,000 | 361 | 471 | -0.309310317 | AUH |
| 16 | 27,075,000 | 27,225,000 | 362 | 331 | -0.643299096 | DISP1 |
| 16 | 27,150,000 | 27,300,000 | 363 | 407 | -0.306106944 | DISP1 |
| 16 | 27,225,000 | 27,375,000 | 364 | 555 | -0.922116993 | TLR5 |
| 16 | 27,300,000 | 27,450,000 | 365 | 666 | -1.31842576 | SUSD4,TLR5 |
| 16 | 27,375,000 | 27,525,000 | 366 | 471 | -1.088522281 | SUSD4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 27,450,000 | 27,600,000 | 367 | 490 | -1.918907568 | CCDC185,SUSD4 |
| 16 | 27,525,000 | 27,675,000 | 368 | 798 | -0.981315678 | CCDC185 |
| 16 | 27,600,000 | 27,750,000 | 369 | 979 | 0.577627488 | MGC151839 |
| 16 | 27,675,000 | 27,825,000 | 370 | 1049 | 0.921415534 | CAPN2,MGC151839 |
| 16 | 27,750,000 | 27,900,000 | 371 | 1019 | 0.332655279 | CAPN2,TP53BP2 |
| 16 | 27,825,000 | 27,975,000 | 372 | 694 | -0.536430683 | CAPN2,TP53BP2 |
| 16 | 27,900,000 | 28,050,000 | 373 | 481 | -0.005101614 | FBXO28,ENSBTAG00000022942 |
| 16 | 27,975,000 | 28,125,000 | 374 | 462 | 0.485015481 | DEGS1,FBXO28,NVL,ENSBTAG00000022942 |
| 16 | 28,050,000 | 28,200,000 | 375 | 339 | 0.583556106 | DEGS1,NVL |
| 16 | 28,125,000 | 28,275,000 | 376 | 290 | 0.077445896 | CNIH4,NVL,WDR26 |
| 16 | 28,200,000 | 28,350,000 | 377 | 364 | -0.407904284 | CNIH4,NVL,WDR26 |
| 16 | 28,275,000 | 28,425,000 | 378 | 707 | -0.411149886 | WDR26 |
| 16 | 28,350,000 | 28,500,000 | 379 | 1258 | 0.376649843 | CNIH3 |
| 16 | 28,425,000 | 28,575,000 | 380 | 957 | 0.681613108 | CNIH3 |
| 16 | 28,500,000 | 28,650,000 | 381 | 730 | 0.644273852 | CNIH3 |
| 16 | 28,575,000 | 28,725,000 | 382 | 921 | -0.458973465 | CNIH3 |
| 16 | 28,650,000 | 28,800,000 | 383 | 895 | -3.949298322 | |
| 16 | 28,725,000 | 28,875,000 | 384 | 690 | -3.587920607 | |
| 16 | 28,800,000 | 28,950,000 | 385 | 334 | -0.419014049 | |
| 16 | 28,875,000 | 29,025,000 | 386 | 772 | 0.923208013 | |
| 16 | 28,950,000 | 29,100,000 | 387 | 804 | 0.893154329 | ENSBTAG00000008449 |
| 16 | 29,025,000 | 29,175,000 | 388 | 628 | 0.80544697 | LBR,ENSBTAG00000008449 |
| 16 | 29,100,000 | 29,250,000 | 389 | 725 | -6.82E-05 | ENAH,LBR,ENSBTAG00000008449 |
| 16 | 29,175,000 | 29,325,000 | 390 | 436 | -2.099365392 | ENAH,LBR |
| 16 | 29,250,000 | 29,400,000 | 391 | 738 | -2.425500926 | ENAH |
| 16 | 29,325,000 | 29,475,000 | 392 | 876 | -2.269091489 | ENAH |
| 16 | 29,400,000 | 29,550,000 | 393 | 539 | -2.354946082 | ENAH |
| 16 | 29,475,000 | 29,625,000 | 394 | 521 | -2.151892558 | EPHX1,SRP9,TMEM63A |
| 16 | 29,550,000 | 29,700,000 | 395 | 595 | -1.179663493 | EPHX1,PYCR2,SRP9,TMEM63A,ENSBTAG0000002855 |
| 16 | 29,625,000 | 29,775,000 | 396 | 441 | -0.896383482 | PYCR2,SDE2,TMEM63A,ENSBTAG0000002855,ENSBTAGO000037896 |
| 16 | 29,700,000 | 29,850,000 | 397 | 240 | -1.667926419 | H3F3A,SDE2,ENSBTAG00000037896 |
| 16 | 29,775,000 | 29,925,000 | 398 | 535 | -1.319351606 | ACBD3,H3F3A |
| 16 | 29,850,000 | 30,000,000 | 399 | 771 | -0.945219907 | ACBD3,LIN9,MIXL1 |
| 16 | 29,925,000 | 30,075,000 | 400 | 454 | -0.894567625 | ACBD3,LIN9,MIXL1 |
| 16 | 30,000,000 | 30,150,000 | 401 | 343 | -2.834902748 | LIN9,PARP1 |
| 16 | 30,075,000 | 30,225,000 | 402 | 618 | -2.847833021 | PARP1,ENSBTAG00000047233 |
| 16 | 30,150,000 | 30,300,000 | 403 | 895 | -0.521032368 | PARP1,ENSBTAG00000047233 |
| 16 | 30,225,000 | 30,375,000 | 404 | 909 | -0.632686628 | MGC151592 |
| 16 | 30,300,000 | 30,450,000 | 405 | 646 | -1.310203894 | ITPKB,MGC151592,ENSBTAG00000033252 |
| 16 | 30,375,000 | 30,525,000 | 406 | 520 | 0.019380179 | ITPKB,ENSBTAG00000033252 |
| 16 | 30,450,000 | 30,600,000 | 407 | 437 | -0.745806162 | ITPKB,PSEN2 |
| 16 | 30,525,000 | 30,675,000 | 408 | 664 | -2.454574043 | ADCK3,PSEN2 |
| 16 | 30,600,000 | 30,750,000 | 409 | 719 | -1.879130766 | ADCK3,CDC42BPA,PSEN2 |
| 16 | 30,675,000 | 30,825,000 | 410 | 357 | 0.661761662 | ADCK3,CDC42BPA |
| 16 | 30,750,000 | 30,900,000 | 411 | 344 | -0.437981921 | CDC42BPA |
| 16 | 30,825,000 | 30,975,000 | 412 | 738 | -0.148918729 | CDC42BPA |
| 16 | 30,900,000 | 31,050,000 | 413 | 720 | 0.088515815 | CDC42BPA |
| 16 | 30,975,000 | 31,125,000 | 414 | 288 | -0.271998738 | CDC42BPA |
| 16 | 31,050,000 | 31,200,000 | 415 | 162 | -0.969131872 | AHCTF1 |
| 16 | 31,125,000 | 31,275,000 | 416 | 247 | 0.012529986 | AHCTF1 |
| 16 | 31,200,000 | 31,350,000 | 417 | 781 | 0.684409942 | AHCTF1,SCCPDH |
| 16 | 31,275,000 | 31,425,000 | 418 | 1239 | 0.666331356 | H3F3C,SCCPDH |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------|
| 16 | 31,350,000 | 31,500,000 | 419 | 1027 | 0.419837487 | CNST,H3F3C,SCCPDH |
| 16 | 31,425,000 | 31,575,000 | 420 | 679 | 0.152092535 | CNST,TFB2M |
| 16 | 31,500,000 | 31,650,000 | 421 | 663 | -0.848389006 | CNST,SMYD3,TFB2M |
| 16 | 31,575,000 | 31,725,000 | 422 | 624 | -1.558584659 | SMYD3 |
| 16 | 31,650,000 | 31,800,000 | 423 | 569 | -2.04327226 | SMYD3 |
| 16 | 31,725,000 | 31,875,000 | 424 | 615 | -0.720711658 | SMYD3 |
| 16 | 31,800,000 | 31,950,000 | 425 | 481 | 0.782649389 | SMYD3 |
| 16 | 31,875,000 | 32,025,000 | 426 | 318 | -0.133279464 | SMYD3 |
| 16 | 31,950,000 | 32,100,000 | 427 | 438 | -0.663480437 | SMYD3 |
| 16 | 32,025,000 | 32,175,000 | 428 | 530 | -0.099090654 | SMYD3 |
| 16 | 32,100,000 | 32,250,000 | 429 | 513 | 0.673305372 | SMYD3 |
| 16 | 32,175,000 | 32,325,000 | 430 | 595 | 0.440845787 | SMYD3 |
| 16 | 32,250,000 | 32,400,000 | 431 | 563 | 0.121452826 | KIF26B,SMYD3 |
| 16 | 32,325,000 | 32,475,000 | 432 | 762 | 0.369677401 | KIF26B,SMYD3 |
| 16 | 32,400,000 | 32,550,000 | 433 | 1088 | 0.150761282 | KIF26B |
| 16 | 32,475,000 | 32,625,000 | 434 | 1226 | -0.008766115 | |
| 16 | 32,550,000 | 32,700,000 | 435 | 873 | 0.399244452 | |
| 16 | 32,625,000 | 32,775,000 | 436 | 430 | -0.566763023 | |
| 16 | 32,700,000 | 32,850,000 | 437 | 774 | -0.313203971 | |
| 16 | 32,775,000 | 32,925,000 | 438 | 861 | 0.171879115 | |
| 16 | 32,850,000 | 33,000,000 | 439 | 793 | 0.533286118 | EFCAB2 |
| 16 | 32,925,000 | 33,075,000 | 440 | 666 | 0.629216399 | EFCAB2 |
| 16 | 33,000,000 | 33,150,000 | 441 | 335 | 0.354105008 | EFCAB2 |
| 16 | 33,075,000 | 33,225,000 | 442 | 398 | 0.489677209 | FAM36A,HNRNPU |
| 16 | 33,150,000 | 33,300,000 | 443 | 565 | 0.269074035 | FAM36A,HNRNPU,PPPDE1 |
| 16 | 33,225,000 | 33,375,000 | 444 | 635 | 0.369589424 | C1orf101,PPPDE1 |
| 16 | 33,300,000 | 33,450,000 | 445 | 884 | 0.784890343 | C1orf101,PPPDE1 |
| 16 | 33,375,000 | 33,525,000 | 446 | 868 | 0.686258765 | C1orf101 |
| 16 | 33,450,000 | 33,600,000 | 447 | 757 | -0.699184412 | ADSS,C1orf100,C1orf101 |
| 16 | 33,525,000 | 33,675,000 | 448 | 1187 | -0.192120858 | ADSS,C1orf100 |
| 16 | 33,600,000 | 33,750,000 | 449 | 1114 | 0.540023061 | |
| 16 | 33,675,000 | 33,825,000 | 450 | 630 | 0.827698585 | |
| 16 | 33,750,000 | 33,900,000 | 451 | 584 | 0.984976819 | |
| 16 | 33,825,000 | 33,975,000 | 452 | 533 | 1.120844746 | ZBTB18 |
| 16 | 33,900,000 | 34,050,000 | 453 | 655 | 0.855487634 | ZBTB18 |
| 16 | 33,975,000 | 34,125,000 | 454 | 948 | 0.129232646 | |
| 16 | 34,050,000 | 34,200,000 | 455 | 900 | -0.168114575 | AKT3 |
| 16 | 34,125,000 | 34,275,000 | 456 | 1068 | 0.44757318 | AKT3 |
| 16 | 34,200,000 | 34,350,000 | 457 | 1055 | 0.326251095 | AKT3 |
| 16 | 34,275,000 | 34,425,000 | 458 | 755 | 0.373969245 | AKT3,SDCCAG8 |
| 16 | 34,350,000 | 34,500,000 | 459 | 934 | 0.806889572 | AKT3,SDCCAG8 |
| 16 | 34,425,000 | 34,575,000 | 460 | 1053 | 0.715691026 | SDCCAG8 |
| 16 | 34,500,000 | 34,650,000 | 461 | 596 | 0.687483724 | SDCCAG8 |
| 16 | 34,575,000 | 34,725,000 | 462 | 336 | -0.046413652 | CEP170,SDCCAG8 |
| 16 | 34,650,000 | 34,800,000 | 463 | 389 | -1.194590474 | CEP170,SDCCAG8 |
| 16 | 34,725,000 | 34,875,000 | 464 | 749 | -1.725414411 | CEP170 |
| 16 | 34,800,000 | 34,950,000 | 465 | 1069 | -1.396155218 | |
| 16 | 34,875,000 | 35,025,000 | 466 | 1138 | -0.070455444 | |
| 16 | 34,950,000 | 35,100,000 | 467 | 1158 | 0.3965515 | |
| 16 | 35,025,000 | 35,175,000 | 468 | 1019 | -2.223149183 | |
| 16 | 35,100,000 | 35,250,000 | 469 | 803 | -3.817834147 | |
| 16 | 35,175,000 | 35,325,000 | 470 | 558 | -2.134716289 | |
| 16 | 35,250,000 | 35,400,000 | 471 | 586 | -0.386740153 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 35,325,000 | 35,475,000 | 472 | 1010 | 0.280773358 | PLD5 |
| 16 | 35,400,000 | 35,550,000 | 473 | 1472 | 0.606855574 | PLD5 |
| 16 | 35,475,000 | 35,625,000 | 474 | 1121 | 0.633972031 | PLD5 |
| 16 | 35,550,000 | 35,700,000 | 475 | 736 | 0.869891614 | PLD5,ENSBTAG00000013700 |
| 16 | 35,625,000 | 35,775,000 | 476 | 797 | 1.131832721 | EXO1,MAP1LC3C,PLD5,ENSBTAG00000013700 |
| 16 | 35,700,000 | 35,850,000 | 477 | 826 | 0.926362303 | EXO1,MAP1LC3C,WDR64,ENSBTAG00000013700 |
| 16 | 35,775,000 | 35,925,000 | 478 | 924 | 0.173465699 | EXO1,WDR64 |
| 16 | 35,850,000 | 36,000,000 | 479 | 853 | 0.201371096 | CHML,KMO,WDR64 |
| 16 | 35,925,000 | 36,075,000 | 480 | 866 | 1.185958054 | CHML,FH,KMO,WDR64 |
| 16 | 36,000,000 | 36,150,000 | 481 | 959 | 1.247551332 | FH,KMO |
| 16 | 36,075,000 | 36,225,000 | 482 | 801 | 0.907330211 | FH,RGS7 |
| 16 | 36,150,000 | 36,300,000 | 483 | 529 | 0.446226871 | RGS7 |
| 16 | 36,225,000 | 36,375,000 | 484 | 622 | 1.062937834 | RGS7 |
| 16 | 36,300,000 | 36,450,000 | 485 | 1008 | 0.885858768 | RGS7 |
| 16 | 36,375,000 | 36,525,000 | 486 | 1117 | 0.228672839 | RGS7 |
| 16 | 36,450,000 | 36,600,000 | 487 | 810 | -0.12984025 | RGS7 |
| 16 | 36,525,000 | 36,675,000 | 488 | 454 | 0.43915986 | RGS7 |
| 16 | 36,600,000 | 36,750,000 | 489 | 436 | 0.584894843 | RGS7 |
| 16 | 36,675,000 | 36,825,000 | 490 | 637 | 0.528423982 | RGS7 |
| 16 | 36,750,000 | 36,900,000 | 491 | 603 | 0.414853942 | |
| 16 | 36,825,000 | 36,975,000 | 492 | 410 | 0.259532182 | ENSBTAG00000009943 |
| 16 | 36,900,000 | 37,050,000 | 493 | 420 | -0.208336389 | XCL1,ENSBTAG00000009943 |
| 16 | 36,975,000 | 37,125,000 | 494 | 511 | 0.093005165 | DPT,XCL1 |
| 16 | 37,050,000 | 37,200,000 | 495 | 695 | -1.573421142 | DPT |
| 16 | 37,125,000 | 37,275,000 | 496 | 641 | -2.184796159 | DPT |
| 16 | 37,200,000 | 37,350,000 | 497 | 704 | 0.420165656 | |
| 16 | 37,275,000 | 37,425,000 | 498 | 843 | 0.766446493 | |
| 16 | 37,350,000 | 37,500,000 | 499 | 522 | 0.399547343 | |
| 16 | 37,425,000 | 37,575,000 | 500 | 347 | -0.149173258 | ATP1B1 |
| 16 | 37,500,000 | 37,650,000 | 501 | 380 | 0.949229729 | ATP1B1,NME7 |
| 16 | 37,575,000 | 37,725,000 | 502 | 591 | 1.193316182 | ATP1B1,NME7 |
| 16 | 37,650,000 | 37,800,000 | 503 | 732 | 1.130205826 | NME7 |
| 16 | 37,725,000 | 37,875,000 | 504 | 732 | 0.462271192 | BLZF1,NME7 |
| 16 | 37,800,000 | 37,950,000 | 505 | 644 | 0.387780209 | BLZF1,CCDC181,NME7,SLC19A2 |
| 16 | 37,875,000 | 38,025,000 | 506 | 776 | 0.481932932 | CCDC181,F5,SLC19A2 |
| 16 | 37,950,000 | 38,100,000 | 507 | 1194 | -0.79641113 | F5,SELP |
| 16 | 38,025,000 | 38,175,000 | 508 | 1048 | -1.710592711 | F5,SELL,SELP |
| 16 | 38,100,000 | 38,250,000 | 509 | 549 | -1.353846065 | METTTL18,SELE,SELL |
| 16 | 38,175,000 | 38,325,000 | 510 | 488 | -0.509617844 | C1orf112,METTTL18,SCYL3,SELE |
| 16 | 38,250,000 | 38,400,000 | 511 | 584 | -1.405451769 | C1orf112,KIFAP3,SCYL3 |
| 16 | 38,325,000 | 38,475,000 | 512 | 326 | -2.440653122 | KIFAP3,SCYL3 |
| 16 | 38,400,000 | 38,550,000 | 513 | 188 | -0.791577474 | KIFAP3 |
| 16 | 38,475,000 | 38,625,000 | 514 | 364 | -0.465027248 | KIFAP3,METTTL11B |
| 16 | 38,550,000 | 38,700,000 | 515 | 618 | 0.302181105 | METTTL11B |
| 16 | 38,625,000 | 38,775,000 | 516 | 823 | 0.801140446 | |
| 16 | 38,700,000 | 38,850,000 | 517 | 816 | 0.64218644 | |
| 16 | 38,775,000 | 38,925,000 | 518 | 735 | -0.72882198 | GORAB |
| 16 | 38,850,000 | 39,000,000 | 519 | 511 | -2.273884615 | GORAB |
| 16 | 38,925,000 | 39,075,000 | 520 | 352 | -0.874252285 | PRRX1 |
| 16 | 39,000,000 | 39,150,000 | 521 | 295 | 0.514283956 | PRRX1 |
| 16 | 39,075,000 | 39,225,000 | 522 | 201 | 0.658325327 | PRRX1 |
| 16 | 39,150,000 | 39,300,000 | 523 | 236 | 1.043968889 | |
| 16 | 39,225,000 | 39,375,000 | 524 | 552 | 0.930242192 | MROH9 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---|
| 16 | 39,300,000 | 39,450,000 | 525 | 598 | 0.84999889 | MROH9 |
| 16 | 39,375,000 | 39,525,000 | 526 | 408 | 0.854296467 | FMO3,MROH9 |
| 16 | 39,450,000 | 39,600,000 | 527 | 334 | 0.738228014 | FMO3,FMO6P |
| 16 | 39,525,000 | 39,675,000 | 528 | 478 | 0.78824742 | FMO1,FMO2,FMO3,FMO6P |
| 16 | 39,600,000 | 39,750,000 | 529 | 631 | 0.788333006 | FMO1,FMO2,FMO4 |
| 16 | 39,675,000 | 39,825,000 | 530 | 447 | 0.785712286 | FMO1,FMO4 |
| 16 | 39,750,000 | 39,900,000 | 531 | 277 | 1.063369057 | FMO4,PRRC2C |
| 16 | 39,825,000 | 39,975,000 | 532 | 233 | 1.017340306 | MYOC,PRRC2C |
| 16 | 39,900,000 | 40,050,000 | 533 | 379 | 0.57237064 | METTTL13,MYOC,PRRC2C,VAMP4 |
| 16 | 39,975,000 | 40,125,000 | 534 | 411 | 0.627187803 | DNM3,METTTL13,VAMP4 |
| 16 | 40,050,000 | 40,200,000 | 535 | 354 | -0.449900377 | DNM3,METTTL13 |
| 16 | 40,125,000 | 40,275,000 | 536 | 332 | -2.163474302 | DNM3 |
| 16 | 40,200,000 | 40,350,000 | 537 | 261 | -2.357981535 | DNM3 |
| 16 | 40,275,000 | 40,425,000 | 538 | 184 | -0.086351308 | DNM3 |
| 16 | 40,350,000 | 40,500,000 | 539 | 122 | 0.885500613 | DNM3 |
| 16 | 40,425,000 | 40,575,000 | 540 | 132 | 1.074274898 | DNM3 |
| 16 | 40,500,000 | 40,650,000 | 541 | 185 | 1.134431302 | |
| 16 | 40,575,000 | 40,725,000 | 542 | 178 | 1.026623247 | |
| 16 | 40,650,000 | 40,800,000 | 543 | 267 | 1.21503729 | PIGC |
| 16 | 40,725,000 | 40,875,000 | 544 | 590 | 0.972791801 | PIGC |
| 16 | 40,800,000 | 40,950,000 | 545 | 514 | 0.755575121 | SUCO |
| 16 | 40,875,000 | 41,025,000 | 546 | 289 | 0.51143413 | SUCO |
| 16 | 40,950,000 | 41,100,000 | 547 | 323 | 0.424612848 | FASLG,SUCO |
| 16 | 41,025,000 | 41,175,000 | 548 | 248 | 0.062118614 | FASLG,ENSBTAG00000016347 |
| 16 | 41,100,000 | 41,250,000 | 549 | 228 | -0.117497597 | ENSBTAG00000016347 |
| 16 | 41,175,000 | 41,325,000 | 550 | 255 | -1.894465738 | |
| 16 | 41,250,000 | 41,400,000 | 551 | 253 | -3.072058337 | |
| 16 | 41,325,000 | 41,475,000 | 552 | 334 | -3.021537774 | |
| 16 | 41,400,000 | 41,550,000 | 553 | 408 | -1.886248071 | TNFSF18 |
| 16 | 41,475,000 | 41,625,000 | 554 | 483 | 1.010446108 | TNFSF18 |
| 16 | 41,550,000 | 41,700,000 | 555 | 345 | 1.475108855 | TNFSF18,TNFSF4 |
| 16 | 41,625,000 | 41,775,000 | 556 | 160 | 1.049502183 | TNFSF4 |
| 16 | 41,700,000 | 41,850,000 | 557 | 203 | 0.888223685 | TNFSF4 |
| 16 | 41,775,000 | 41,925,000 | 558 | 258 | 1.009202219 | |
| 16 | 41,850,000 | 42,000,000 | 559 | 331 | 0.447742045 | DHRS3 |
| 16 | 41,925,000 | 42,075,000 | 560 | 316 | 0.320012754 | DHRS3 |
| 16 | 42,000,000 | 42,150,000 | 561 | 194 | 0.269877967 | DHRS3,VPS13D |
| 16 | 42,075,000 | 42,225,000 | 562 | 98 | -0.248958484 | VPS13D |
| 16 | 42,150,000 | 42,300,000 | 563 | 94 | -0.78180059 | VPS13D |
| 16 | 42,225,000 | 42,375,000 | 564 | 230 | 0.813493286 | VPS13D |
| 16 | 42,300,000 | 42,450,000 | 565 | 263 | 1.14588169 | TNFRSF1B,TNFRSF8,VPS13D |
| 16 | 42,375,000 | 42,525,000 | 566 | 290 | 0.329863216 | TNFRSF1B,TNFRSF8 |
| 16 | 42,450,000 | 42,600,000 | 567 | 477 | -1.552090986 | MFN2,MIIP,PLOD1,TNFRSF8 |
| 16 | 42,525,000 | 42,675,000 | 568 | 417 | -1.707134395 | KIAA2013,MFN2,MIIP,PLOD1 |
| 16 | 42,600,000 | 42,750,000 | 569 | 268 | -0.02220782 | CLCN6,KIAA2013,NPPA,NPPB,PLOD1 |
| 16 | 42,675,000 | 42,825,000 | 570 | 414 | -1.014791954 | AGTRAP,C1orf167,CLCN6,MTHFR,NPPA,NPPB |
| 16 | 42,750,000 | 42,900,000 | 571 | 558 | -0.948329308 | AGTRAP,C1orf167,CLCN6,DRAXIN,FBXO6,MAD2L2,MTHFR |
| 16 | 42,825,000 | 42,975,000 | 572 | 410 | -0.222023311 | AGTRAP,DRAXIN,FBXO2,FBXO44,FBXO6,MAD2L2 |
| 16 | 42,900,000 | 43,050,000 | 573 | 283 | 0.480039782 | FBXO2,FBXO44,PTCHD2 |
| 16 | 42,975,000 | 43,125,000 | 574 | 318 | 1.127982393 | PTCHD2 |
| 16 | 43,050,000 | 43,200,000 | 575 | 424 | 1.294318675 | PTCHD2 |
| 16 | 43,125,000 | 43,275,000 | 576 | 386 | 1.373990272 | UBIAD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 16 | 43,200,000 | 43,350,000 | 577 | 194 | 1.357120123 | ANGPTL7,MTOR,UBIAD1 |
| 16 | 43,275,000 | 43,425,000 | 578 | 179 | 1.219334241 | ANGPTL7,EXOSC10,MTOR |
| 16 | 43,350,000 | 43,500,000 | 579 | 427 | 1.160820964 | EXOSC10,MASP2,MTOR,SRM,TARDBP |
| 16 | 43,425,000 | 43,575,000 | 580 | 434 | 1.138688258 | EXOSC10,MASP2,SRM,TARDBP |
| 16 | 43,500,000 | 43,650,000 | 581 | 470 | 1.332710529 | |
| 16 | 43,575,000 | 43,725,000 | 582 | 460 | 1.295993062 | |
| 16 | 43,650,000 | 43,800,000 | 583 | 278 | 0.837954329 | CASZ1 |
| 16 | 43,725,000 | 43,875,000 | 584 | 274 | 0.755586614 | CASZ1,PEX14 |
| 16 | 43,800,000 | 43,950,000 | 585 | 259 | 1.224032715 | CASZ1,PEX14 |
| 16 | 43,875,000 | 44,025,000 | 586 | 218 | 1.315557764 | APITD1,CORT,DFFA,PEX14 |
| 16 | 43,950,000 | 44,100,000 | 587 | 394 | -0.908206194 | APITD1,CORT,DFFA,KIF1B,PEX14,PGD |
| 16 | 44,025,000 | 44,175,000 | 588 | 538 | -1.631851536 | APITD1,KIF1B,PGD |
| 16 | 44,100,000 | 44,250,000 | 589 | 396 | -1.806283353 | KIF1B |
| 16 | 44,175,000 | 44,325,000 | 590 | 345 | -1.693732869 | KIF1B,UBE4B |
| 16 | 44,250,000 | 44,400,000 | 591 | 245 | -1.144426554 | UBE4B |
| 16 | 44,325,000 | 44,475,000 | 592 | 212 | 0.986467434 | NMNAT1,RBP7,UBE4B |
| 16 | 44,400,000 | 44,550,000 | 593 | 345 | 1.245829393 | CTNNBIP1,NMNAT1,RBP7 |
| 16 | 44,475,000 | 44,625,000 | 594 | 285 | 1.340448799 | CTNNBIP1 |
| 16 | 44,550,000 | 44,700,000 | 595 | 190 | 1.132995021 | CLSTN1,CTNNBIP1,PIK3CD |
| 16 | 44,625,000 | 44,775,000 | 596 | 273 | 0.488977272 | CLSTN1,PIK3CD |
| 16 | 44,700,000 | 44,850,000 | 597 | 323 | -0.396127994 | SLC25A33,TMEM201 |
| 16 | 44,775,000 | 44,925,000 | 598 | 318 | -0.965017985 | SLC25A33,TMEM201 |
| 16 | 44,850,000 | 45,000,000 | 599 | 325 | -0.414868107 | SPSB1 |
| 16 | 44,925,000 | 45,075,000 | 600 | 326 | 0.300683651 | SPSB1 |
| 16 | 45,000,000 | 45,150,000 | 601 | 360 | 0.400662769 | H6PD,SPSB1 |
| 16 | 45,075,000 | 45,225,000 | 602 | 379 | 0.600262499 | GPR157,H6PD |
| 16 | 45,150,000 | 45,300,000 | 603 | 485 | 0.940300741 | CA6,GPR157,SLC2A5 |
| 16 | 45,225,000 | 45,375,000 | 604 | 406 | 1.006233764 | CA6,GPR157,SLC2A5 |
| 16 | 45,300,000 | 45,450,000 | 605 | 341 | 1.049740205 | CA6,ENSBTAG00000013411 |
| 16 | 45,375,000 | 45,525,000 | 606 | 378 | 1.221966883 | ENSBTAG00000013411 |
| 16 | 45,450,000 | 45,600,000 | 607 | 396 | 1.314452467 | |
| 16 | 45,525,000 | 45,675,000 | 608 | 443 | 1.256965263 | RERE |
| 16 | 45,600,000 | 45,750,000 | 609 | 292 | 1.176065549 | RERE |
| 16 | 45,675,000 | 45,825,000 | 610 | 231 | 1.276544136 | RERE |
| 16 | 45,750,000 | 45,900,000 | 611 | 248 | 1.268421456 | RERE,SLC45A1 |
| 16 | 45,825,000 | 45,975,000 | 612 | 218 | 1.154844035 | RERE,SLC45A1 |
| 16 | 45,900,000 | 46,050,000 | 613 | 416 | 1.304132949 | SLC45A1 |
| 16 | 45,975,000 | 46,125,000 | 614 | 677 | 0.838507938 | ENSBTAG00000011650 |
| 16 | 46,050,000 | 46,200,000 | 615 | 672 | 0.488148078 | ENSBTAG00000011650 |
| 16 | 46,125,000 | 46,275,000 | 616 | 504 | 0.90459916 | ERRFI1,PARK7,ENSBTAG00000011650 |
| 16 | 46,200,000 | 46,350,000 | 617 | 507 | 0.739980993 | ERRFI1,PARK7,TNFRSF9 |
| 16 | 46,275,000 | 46,425,000 | 618 | 878 | 0.820931811 | TNFRSF9 |
| 16 | 46,350,000 | 46,500,000 | 619 | 909 | 1.028357787 | CAMTA1,VAMP3 |
| 16 | 46,425,000 | 46,575,000 | 620 | 751 | 1.055844405 | CAMTA1,VAMP3 |
| 16 | 46,500,000 | 46,650,000 | 621 | 968 | -0.202507662 | CAMTA1 |
| 16 | 46,575,000 | 46,725,000 | 622 | 1156 | 0.024251429 | |
| 16 | 46,650,000 | 46,800,000 | 623 | 1165 | -0.024000693 | |
| 16 | 46,725,000 | 46,875,000 | 624 | 1044 | -0.384738358 | |
| 16 | 46,800,000 | 46,950,000 | 625 | 929 | 0.528125467 | |
| 16 | 46,875,000 | 47,025,000 | 626 | 814 | 1.05947604 | |
| 16 | 46,950,000 | 47,100,000 | 627 | 907 | 0.465463926 | |
| 16 | 47,025,000 | 47,175,000 | 628 | 1079 | -0.311818829 | |
| 16 | 47,100,000 | 47,250,000 | 629 | 986 | -0.537180402 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 47,175,000 | 47,325,000 | 630 | 690 | 0.067230854 | |
| 16 | 47,250,000 | 47,400,000 | 631 | 303 | 0.919290279 | |
| 16 | 47,325,000 | 47,475,000 | 632 | 156 | 0.993902248 | |
| 16 | 47,400,000 | 47,550,000 | 633 | 200 | 0.137407973 | |
| 16 | 47,475,000 | 47,625,000 | 634 | 258 | -0.042985448 | DNAJC11,THAP3 |
| 16 | 47,550,000 | 47,700,000 | 635 | 256 | 0.220486135 | DNAJC11,KLHL21,NOL9,PHF13,TAS1R1,THAP3,ZBTB48 |
| 16 | 47,625,000 | 47,775,000 | 636 | 247 | -0.600549222 | ESPN,KLHL21,NOL9,PHF13,PLEKHG5,TAS1R1,THAP3,TNFRSF25,ZBTB48 |
| 16 | 47,700,000 | 47,850,000 | 637 | 374 | -3.873968667 | ACOT7,ESPN,HES2,PLEKHG5,TNFRSF25 |
| 16 | 47,775,000 | 47,925,000 | 638 | 448 | -3.590083199 | ACOT7,ESPN,HES2 |
| 16 | 47,850,000 | 48,000,000 | 639 | 323 | -2.229921641 | ACOT7,GPR153,HES3,ICMT,RNF207,ENSBTAG00000014423 |
| 16 | 47,925,000 | 48,075,000 | 640 | 232 | -0.552505927 | ACOT7,CHD5,GPR153,HES3,ICMT,RNF207,ENSBTAG00000014423 |
| 16 | 48,000,000 | 48,150,000 | 641 | 251 | 0.47764245 | CHD5,KCNAB2,ENSBTAG00000014423 |
| 16 | 48,075,000 | 48,225,000 | 642 | 413 | 0.643578173 | CHD5,KCNAB2,NPHP4 |
| 16 | 48,150,000 | 48,300,000 | 643 | 977 | 0.901791887 | NPHP4 |
| 16 | 48,225,000 | 48,375,000 | 644 | 1686 | 0.93896976 | NPHP4 |
| 16 | 48,300,000 | 48,450,000 | 645 | 1268 | 1.005741408 | NPHP4 |
| 16 | 48,375,000 | 48,525,000 | 646 | 868 | -0.21565192 | |
| 16 | 48,450,000 | 48,600,000 | 647 | 1263 | -1.084465381 | |
| 16 | 48,525,000 | 48,675,000 | 648 | 1366 | -0.628948008 | |
| 16 | 48,600,000 | 48,750,000 | 649 | 1073 | -3.438975457 | |
| 16 | 48,675,000 | 48,825,000 | 650 | 626 | -7.811043695 | |
| 16 | 48,750,000 | 48,900,000 | 651 | 733 | -7.259808842 | |
| 16 | 48,825,000 | 48,975,000 | 652 | 743 | -6.154316071 | |
| 16 | 48,900,000 | 49,050,000 | 653 | 551 | -1.136596034 | |
| 16 | 48,975,000 | 49,125,000 | 654 | 862 | -0.143173988 | |
| 16 | 49,050,000 | 49,200,000 | 655 | 979 | -1.063711375 | |
| 16 | 49,125,000 | 49,275,000 | 656 | 655 | -0.655610204 | LAD1,TNNT2,ENSBTAG00000047285,ENSBTAG00000048267 |
| 16 | 49,200,000 | 49,350,000 | 657 | 459 | 0.817504308 | CSRP1,LAD1,TNNI1,TNNT2,ENSBTAG00000047285,ENSBTAG00000048267 |
| 16 | 49,275,000 | 49,425,000 | 658 | 520 | 0.497782754 | CSRP1,LAD1,TNNI1 |
| 16 | 49,350,000 | 49,500,000 | 659 | 569 | 0.547344826 | CSRP1,NAV1,ENSBTAG00000046062 |
| 16 | 49,425,000 | 49,575,000 | 660 | 579 | 0.703143128 | NAV1,ENSBTAG00000046062 |
| 16 | 49,500,000 | 49,650,000 | 661 | 653 | 0.725913093 | IPO9,LMOD1,NAV1,SHISA4 |
| 16 | 49,575,000 | 49,725,000 | 662 | 751 | 0.901663828 | IPO9,LMOD1,SHISA4,TIMM17A |
| 16 | 49,650,000 | 49,800,000 | 663 | 965 | 0.844775817 | LMOD1,TIMM17A |
| 16 | 49,725,000 | 49,875,000 | 664 | 954 | 0.53396704 | AJAP1 |
| 16 | 49,800,000 | 49,950,000 | 665 | 617 | 0.645000266 | AJAP1 |
| 16 | 49,875,000 | 50,025,000 | 666 | 478 | 1.260400812 | |
| 16 | 49,950,000 | 50,100,000 | 667 | 762 | 1.172423585 | |
| 16 | 50,025,000 | 50,175,000 | 668 | 890 | 0.454437997 | |
| 16 | 50,100,000 | 50,250,000 | 669 | 764 | -2.475133092 | |
| 16 | 50,175,000 | 50,325,000 | 670 | 762 | -1.668635482 | |
| 16 | 50,250,000 | 50,400,000 | 671 | 830 | 1.110042635 | |
| 16 | 50,325,000 | 50,475,000 | 672 | 748 | 1.216076196 | C16H1orf174 |
| 16 | 50,400,000 | 50,550,000 | 673 | 573 | 0.663955213 | C16H1orf174,CEP104,DFFB,LRR47 |
| 16 | 50,475,000 | 50,625,000 | 674 | 546 | 0.310201317 | C16H1orf174,CCDC27,CEP104,DFFB,LRR47,SMIM1,TP73 |
| 16 | 50,550,000 | 50,700,000 | 675 | 481 | 0.583220097 | CCDC27,LRR47,SMIM1,TP73,TPRG1L,WRAP73 |
| 16 | 50,625,000 | 50,775,000 | 676 | 412 | 0.439919188 | MEGF6,TP73,TPRG1L,WRAP73 |
| 16 | 50,700,000 | 50,850,000 | 677 | 410 | 0.349564822 | ARHGEF16,MEGF6,PRDM16 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 50,775,000 | 50,925,000 | 678 | 411 | 0.471509563 | ARHGEF16,MEGF6,PRDM16 |
| 16 | 50,850,000 | 51,000,000 | 679 | 458 | 0.207068821 | PRDM16 |
| 16 | 50,925,000 | 51,075,000 | 680 | 722 | 0.611066351 | |
| 16 | 51,000,000 | 51,150,000 | 681 | 637 | 0.717902504 | |
| 16 | 51,075,000 | 51,225,000 | 682 | 394 | -0.690903843 | |
| 16 | 51,150,000 | 51,300,000 | 683 | 397 | -0.283786081 | ACTRT2 |
| 16 | 51,225,000 | 51,375,000 | 684 | 358 | 0.658076236 | ACTRT2 |
| 16 | 51,300,000 | 51,450,000 | 685 | 407 | 0.479011195 | |
| 16 | 51,375,000 | 51,525,000 | 686 | 534 | 0.544249529 | MMEL1,TTC34 |
| 16 | 51,450,000 | 51,600,000 | 687 | 495 | 0.406680988 | FAM213B,HES5,MMEL1,PANK4,TTC34 |
| 16 | 51,525,000 | 51,675,000 | 688 | 536 | 0.612298797 | FAM213B,HES5,MMEL1,PANK4,PLCH2 |
| 16 | 51,600,000 | 51,750,000 | 689 | 505 | 0.793079114 | MORN1,PANK4,PEX10,PLCH2,RER1 |
| 16 | 51,675,000 | 51,825,000 | 690 | 315 | -1.472342603 | MORN1,PEX10,RER1,SKI |
| 16 | 51,750,000 | 51,900,000 | 691 | 345 | -1.180235956 | FAAP20,PRKCZ,SKI |
| 16 | 51,825,000 | 51,975,000 | 692 | 434 | 0.275624605 | FAAP20,GABRD,PRKCZ |
| 16 | 51,900,000 | 52,050,000 | 693 | 384 | 0.65914181 | GABRD,KIAA1751,PRKCZ |
| 16 | 51,975,000 | 52,125,000 | 694 | 320 | 0.903534364 | CALML6,GNB1,KIAA1751,TMEM52,ENSBTAG00000024510 |
| 16 | 52,050,000 | 52,200,000 | 695 | 286 | 0.547818331 | CALML6,GNB1,KIAA1751,TMEM52,ENSBTAG00000024510 |
| 16 | 52,125,000 | 52,275,000 | 696 | 167 | -0.023927135 | CDC2L1,GNB1,MIB2,MMP23B,NADK,RPLP1,SLC35E2B |
| 16 | 52,200,000 | 52,350,000 | 697 | 126 | -0.147369796 | ATAD3,C16H1orf70,C1orf233,CDC2L1,MIB2,MMP23B,NADK,RPLP1,SLC35E2B,SSU72 |
| 16 | 52,275,000 | 52,425,000 | 698 | 122 | -0.059027498 | ANKRD65,ATAD3,AURKAIP1,C16H1orf70,C1orf233,CCNL2,MIB2,MRPL20,MXRA8,RPLP1,SSU72,TMEM88B,VWA1 |
| 16 | 52,350,000 | 52,500,000 | 699 | 172 | 1.111205735 | ANKRD65,ATAD3,AURKAIP1,B3GALT6,CCNL2,DVL1,FAM132A,MRPL20,MXRA8,RPLP1,SDF4,TMEM88B,TNFRSF18,TNFRSF4,TLL10,UBE2J2,VWA1 |
| 16 | 52,425,000 | 52,575,000 | 700 | 235 | 1.089068939 | B3GALT6,DVL1,FAM132A,GLTPD1,MXRA8,SDF4,TNFRSF18,TNFRSF4,TLL10,UBE2J2 |
| 16 | 52,500,000 | 52,650,000 | 701 | 209 | 1.075750663 | ACAP3,CPSF3L,FLJ20584,GLTPD1,PUSL1,SCNN1D,TLL10 |
| 16 | 52,575,000 | 52,725,000 | 702 | 169 | 0.691561726 | ACAP3,AGRN,CPSF3L,FLJ20584,GLTPD1,HES4,ISG15,PUSL1,RNF223,SCNN1D,ENSBTAG00000024492 |
| 16 | 52,650,000 | 52,800,000 | 703 | 130 | 0.400983605 | AGRN,FLJ20584,HES4,ISG15,KLHL17,NOC2L,PERM1,PLEKHN1,RNF223,SAMD11,ENSBTAG00000024492 |
| 16 | 52,725,000 | 52,875,000 | 704 | 140 | 0.546929001 | HES4,KLHL17,NOC2L,PERM1,PLEKHN1,SAMD11,ZBTB17 |
| 16 | 52,800,000 | 52,950,000 | 705 | 214 | 0.650252177 | SPEN,ZBTB17 |
| 16 | 52,875,000 | 53,025,000 | 706 | 274 | -0.265629168 | SPEN,ZBTB17 |
| 16 | 52,950,000 | 53,100,000 | 707 | 391 | 0.220407925 | FBLIM1,PLEKHM2,SLC25A34,SPEN,TMEM82 |
| 16 | 53,025,000 | 53,175,000 | 708 | 394 | 0.934503192 | DDI2,FBLIM1,PLEKHM2,RSC1A1,SLC25A34,TMEM82 |
| 16 | 53,100,000 | 53,250,000 | 709 | 275 | 1.226019431 | AGMAT,DDI2,DNAJC16,PLEKHM2,RSC1A1 |
| 16 | 53,175,000 | 53,325,000 | 710 | 398 | 0.288689776 | AGMAT,CASP9,CTRC,DNAJC16,EFHD2,ELA2A |
| 16 | 53,250,000 | 53,400,000 | 711 | 691 | 0.28800146 | CASP9,CTRC,EFHD2,ELA2A,FHAD1 |
| 16 | 53,325,000 | 53,475,000 | 712 | 631 | 0.383120993 | FHAD1 |
| 16 | 53,400,000 | 53,550,000 | 713 | 406 | 0.41604377 | FHAD1,TMEM51 |
| 16 | 53,475,000 | 53,625,000 | 714 | 814 | 0.686603711 | TMEM51 |
| 16 | 53,550,000 | 53,700,000 | 715 | 890 | 0.37628772 | KAZN |
| 16 | 53,625,000 | 53,775,000 | 716 | 773 | 0.719042777 | KAZN |
| 16 | 53,700,000 | 53,850,000 | 717 | 1110 | 0.890097726 | KAZN |
| 16 | 53,775,000 | 53,925,000 | 718 | 858 | 0.340466824 | |
| 16 | 53,850,000 | 54,000,000 | 719 | 741 | -0.461730539 | |
| 16 | 53,925,000 | 54,075,000 | 720 | 883 | -0.169597755 | |
| 16 | 54,000,000 | 54,150,000 | 721 | 586 | -0.111313082 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 54,075,000 | 54,225,000 | 722 | 385 | 0.292622473 | |
| 16 | 54,150,000 | 54,300,000 | 723 | 540 | 0.488733338 | |
| 16 | 54,225,000 | 54,375,000 | 724 | 843 | 0.432883236 | |
| 16 | 54,300,000 | 54,450,000 | 725 | 1171 | 0.146835218 | |
| 16 | 54,375,000 | 54,525,000 | 726 | 1008 | -0.067013195 | |
| 16 | 54,450,000 | 54,600,000 | 727 | 709 | 0.052960506 | |
| 16 | 54,525,000 | 54,675,000 | 728 | 581 | 0.3745633 | |
| 16 | 54,600,000 | 54,750,000 | 729 | 1058 | 0.591271266 | |
| 16 | 54,675,000 | 54,825,000 | 730 | 1457 | 0.605238965 | |
| 16 | 54,750,000 | 54,900,000 | 731 | 1071 | 0.279499705 | |
| 16 | 54,825,000 | 54,975,000 | 732 | 1179 | 0.443909374 | |
| 16 | 54,900,000 | 55,050,000 | 733 | 1296 | 0.688718429 | |
| 16 | 54,975,000 | 55,125,000 | 734 | 822 | 0.373481059 | PRDM2 |
| 16 | 55,050,000 | 55,200,000 | 735 | 477 | 0.417792419 | PRDM2 |
| 16 | 55,125,000 | 55,275,000 | 736 | 544 | 0.958904659 | KDM5B,PRDM2 |
| 16 | 55,200,000 | 55,350,000 | 737 | 626 | 0.905301822 | KDM5B |
| 16 | 55,275,000 | 55,425,000 | 738 | 574 | 0.131790125 | BOVAGGRUS,KDM5B |
| 16 | 55,350,000 | 55,500,000 | 739 | 583 | 0.397633004 | BOVAGGRUS,KLHL12,RABIF |
| 16 | 55,425,000 | 55,575,000 | 740 | 511 | 0.413542396 | ADIPOR1,BOVAGGRUS,CYB5R1,KLHL12,RABIF,ENSBTAG0000019931 |
| 16 | 55,500,000 | 55,650,000 | 741 | 701 | 0.82904637 | ADIPOR1,CYB5R1,KLHL12,LRRC38,ENSBTAG00000019931 |
| 16 | 55,575,000 | 55,725,000 | 742 | 995 | 0.946896775 | LRRC38,ENSBTAG00000024791 |
| 16 | 55,650,000 | 55,800,000 | 743 | 796 | 0.490969069 | ENSBTAG00000012389,ENSBTAG00000024791,ENSBTAG0000038000,ENSBTAG00000038222,ENSBTAG00000040570 |
| 16 | 55,725,000 | 55,875,000 | 744 | 635 | -0.435952067 | ENSBTAG00000012389,ENSBTAG00000038000,ENSBTAG0000038222,ENSBTAG00000038264,ENSBTAG00000040570 |
| 16 | 55,800,000 | 55,950,000 | 745 | 544 | -0.943314889 | ENSBTAG00000031507,ENSBTAG00000038261,ENSBTAG0000038264 |
| 16 | 55,875,000 | 56,025,000 | 746 | 510 | -0.440804746 | ENSBTAG00000031507,ENSBTAG00000038261,ENSBTAG0000040419 |
| 16 | 55,950,000 | 56,100,000 | 747 | 524 | 0.174773402 | ENSBTAG00000001210,ENSBTAG00000015600,ENSBTAG0000040419 |
| 16 | 56,025,000 | 56,175,000 | 748 | 460 | 0.214292294 | ENSBTAG00000001210,ENSBTAG00000015600,ENSBTAG0000040419,ENSBTAG00000046630 |
| 16 | 56,100,000 | 56,250,000 | 749 | 375 | 0.35111722 | AADAACL3,C16H1orf158,ENSBTAG00000046630 |
| 16 | 56,175,000 | 56,325,000 | 750 | 608 | -0.374033883 | AADAACL3,C16H1orf158 |
| 16 | 56,250,000 | 56,400,000 | 751 | 1090 | -0.965277007 | PRDX6 |
| 16 | 56,325,000 | 56,475,000 | 752 | 1087 | -0.941122727 | PRDX6,SLC9C2 |
| 16 | 56,400,000 | 56,550,000 | 753 | 705 | -0.888955651 | ANKRD45,SLC9C2,ENSBTAG00000046799 |
| 16 | 56,475,000 | 56,625,000 | 754 | 540 | -2.126127765 | ANKRD45,KLHL20,SLC9C2,ENSBTAG00000046799 |
| 16 | 56,550,000 | 56,700,000 | 755 | 547 | -1.505887036 | CENPL,DARS2,KLHL20,ZBTB37 |
| 16 | 56,625,000 | 56,775,000 | 756 | 436 | -0.33746623 | CENPL,DARS2,SERPINC1,ZBTB37 |
| 16 | 56,700,000 | 56,850,000 | 757 | 334 | 0.178291228 | SERPINC1,ZBTB37 |
| 16 | 56,775,000 | 56,925,000 | 758 | 489 | 0.575625701 | |
| 16 | 56,850,000 | 57,000,000 | 759 | 449 | 0.111307571 | RABGAP1L |
| 16 | 56,925,000 | 57,075,000 | 760 | 267 | 0.374607829 | RABGAP1L |
| 16 | 57,000,000 | 57,150,000 | 761 | 262 | 0.85764622 | RABGAP1L |
| 16 | 57,075,000 | 57,225,000 | 762 | 342 | 0.451425764 | GPR52 |
| 16 | 57,150,000 | 57,300,000 | 763 | 420 | 0.773896673 | GPR52 |
| 16 | 57,225,000 | 57,375,000 | 764 | 351 | 0.596431899 | |
| 16 | 57,300,000 | 57,450,000 | 765 | 518 | -2.695044751 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 16 | 57,375,000 | 57,525,000 | 766 | 849 | -1.0336358 | |
| 16 | 57,450,000 | 57,600,000 | 767 | 1009 | -1.920128798 | MGC157043 |
| 16 | 57,525,000 | 57,675,000 | 768 | 1001 | -1.41470634 | MGC157043 |
| 16 | 57,600,000 | 57,750,000 | 769 | 841 | 0.636235479 | CACYBP,MGC157043,MRPS14 |
| 16 | 57,675,000 | 57,825,000 | 770 | 788 | 0.356947147 | CACYBP,MGC157043,MRPS14,TNN |
| 16 | 57,750,000 | 57,900,000 | 771 | 696 | 0.608480584 | TNN |
| 16 | 57,825,000 | 57,975,000 | 772 | 609 | 0.690962401 | TNN |
| 16 | 57,900,000 | 58,050,000 | 773 | 559 | -0.161521269 | TNR |
| 16 | 57,975,000 | 58,125,000 | 774 | 384 | -0.535674476 | TNR |
| 16 | 58,050,000 | 58,200,000 | 775 | 731 | 0.662100841 | TNR |
| 16 | 58,125,000 | 58,275,000 | 776 | 881 | 0.641149233 | TNR |
| 16 | 58,200,000 | 58,350,000 | 777 | 961 | -0.369287118 | |
| 16 | 58,275,000 | 58,425,000 | 778 | 1203 | -0.110901044 | |
| 16 | 58,350,000 | 58,500,000 | 779 | 1003 | 0.438616107 | |
| 16 | 58,425,000 | 58,575,000 | 780 | 813 | 0.143783949 | |
| 16 | 58,500,000 | 58,650,000 | 781 | 585 | 0.326590443 | RFWD2 |
| 16 | 58,575,000 | 58,725,000 | 782 | 450 | 0.191557346 | RFWD2 |
| 16 | 58,650,000 | 58,800,000 | 783 | 382 | -0.060118054 | RFWD2 |
| 16 | 58,725,000 | 58,875,000 | 784 | 290 | 0.491511098 | RFWD2 |
| 16 | 58,800,000 | 58,950,000 | 785 | 695 | 0.87833509 | RFWD2 |
| 16 | 58,875,000 | 59,025,000 | 786 | 873 | 0.816798684 | |
| 16 | 58,950,000 | 59,100,000 | 787 | 792 | 0.577413766 | |
| 16 | 59,025,000 | 59,175,000 | 788 | 700 | 0.343542492 | PAPPA2 |
| 16 | 59,100,000 | 59,250,000 | 789 | 426 | -0.353960769 | PAPPA2 |
| 16 | 59,175,000 | 59,325,000 | 790 | 617 | 0.178026955 | PAPPA2 |
| 16 | 59,250,000 | 59,400,000 | 791 | 663 | 0.512637089 | PAPPA2 |
| 16 | 59,325,000 | 59,475,000 | 792 | 625 | 0.807846819 | PAPPA2 |
| 16 | 59,400,000 | 59,550,000 | 793 | 977 | 0.544362691 | ASTN1,PAPPA2 |
| 16 | 59,475,000 | 59,625,000 | 794 | 1092 | 0.342614943 | ASTN1 |
| 16 | 59,550,000 | 59,700,000 | 795 | 1047 | 0.705953809 | ASTN1 |
| 16 | 59,625,000 | 59,775,000 | 796 | 911 | 0.775640176 | ASTN1 |
| 16 | 59,700,000 | 59,850,000 | 797 | 758 | 0.528409031 | ASTN1 |
| 16 | 59,775,000 | 59,925,000 | 798 | 537 | 0.552749891 | |
| 16 | 59,850,000 | 60,000,000 | 799 | 586 | 0.203236183 | BRINP2 |
| 16 | 59,925,000 | 60,075,000 | 800 | 784 | -0.501087263 | BRINP2 |
| 16 | 60,000,000 | 60,150,000 | 801 | 806 | 0.138785053 | |
| 16 | 60,075,000 | 60,225,000 | 802 | 761 | 1.096207391 | |
| 16 | 60,150,000 | 60,300,000 | 803 | 1118 | 1.38332804 | |
| 16 | 60,225,000 | 60,375,000 | 804 | 1405 | 1.245640127 | |
| 16 | 60,300,000 | 60,450,000 | 805 | 1360 | 0.769259222 | |
| 16 | 60,375,000 | 60,525,000 | 806 | 1735 | 0.631184724 | |
| 16 | 60,450,000 | 60,600,000 | 807 | 1840 | 0.684880504 | |
| 16 | 60,525,000 | 60,675,000 | 808 | 1698 | 0.903027811 | ENSBTAG00000038238 |
| 16 | 60,600,000 | 60,750,000 | 809 | 1401 | 0.818102191 | SEC16B,ENSBTAG00000038238 |
| 16 | 60,675,000 | 60,825,000 | 810 | 1092 | 0.78652497 | SEC16B |
| 16 | 60,750,000 | 60,900,000 | 811 | 667 | 0.944995608 | SEC16B,ENSBTAG00000046172 |
| 16 | 60,825,000 | 60,975,000 | 812 | 392 | 1.046856475 | ENSBTAG00000046172 |
| 16 | 60,900,000 | 61,050,000 | 813 | 445 | 1.263628598 | |
| 16 | 60,975,000 | 61,125,000 | 814 | 589 | 0.197723401 | RASAL2 |
| 16 | 61,050,000 | 61,200,000 | 815 | 533 | -0.309975498 | RASAL2 |
| 16 | 61,125,000 | 61,275,000 | 816 | 579 | -0.66528652 | RASAL2 |
| 16 | 61,200,000 | 61,350,000 | 817 | 739 | 0.013108812 | RASAL2 |
| 16 | 61,275,000 | 61,425,000 | 818 | 658 | 0.482215676 | RASAL2,TEX35 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 61,350,000 | 61,500,000 | 819 | 549 | -0.166664561 | TEX35 |
| 16 | 61,425,000 | 61,575,000 | 820 | 649 | -0.83277438 | RALGPS2 |
| 16 | 61,500,000 | 61,650,000 | 821 | 916 | -0.477678661 | RALGPS2 |
| 16 | 61,575,000 | 61,725,000 | 822 | 803 | -0.331705942 | ANGPTL1,RALGPS2 |
| 16 | 61,650,000 | 61,800,000 | 823 | 748 | -0.550748482 | ANGPTL1,RALGPS2 |
| 16 | 61,725,000 | 61,875,000 | 824 | 494 | -0.519723445 | FAM20B,TOR3A |
| 16 | 61,800,000 | 61,950,000 | 825 | 163 | -1.986078335 | ABL2,FAM20B,TOR3A |
| 16 | 61,875,000 | 62,025,000 | 826 | 185 | -1.999997582 | ABL2,TOR3A |
| 16 | 61,950,000 | 62,100,000 | 827 | 384 | -0.214198649 | ABL2,SOAT1 |
| 16 | 62,025,000 | 62,175,000 | 828 | 681 | 0.83584135 | AXDND1,SOAT1 |
| 16 | 62,100,000 | 62,250,000 | 829 | 811 | 0.794039722 | AXDND1,NPHS2,SOAT1 |
| 16 | 62,175,000 | 62,325,000 | 830 | 734 | 0.631945118 | AXDND1,NPHS2,TDRD5 |
| 16 | 62,250,000 | 62,400,000 | 831 | 698 | 0.874366992 | TDRD5 |
| 16 | 62,325,000 | 62,475,000 | 832 | 608 | 0.786826252 | FAM163A,TDRD5 |
| 16 | 62,400,000 | 62,550,000 | 833 | 481 | -0.176818331 | FAM163A,IFRG15,TOR1AIP1,TOR1AIP2 |
| 16 | 62,475,000 | 62,625,000 | 834 | 558 | -0.469334885 | IFRG15,TOR1AIP1,TOR1AIP2 |
| 16 | 62,550,000 | 62,700,000 | 835 | 497 | 0.176450579 | CEP350,TOR1AIP1 |
| 16 | 62,625,000 | 62,775,000 | 836 | 351 | 0.531561722 | CEP350 |
| 16 | 62,700,000 | 62,850,000 | 837 | 473 | -0.10525919 | CEP350,QSOX1 |
| 16 | 62,775,000 | 62,925,000 | 838 | 471 | -0.319483972 | LHX4,QSOX1 |
| 16 | 62,850,000 | 63,000,000 | 839 | 797 | -0.859254464 | LHX4 |
| 16 | 62,925,000 | 63,075,000 | 840 | 1297 | -0.36614938 | ACBD6 |
| 16 | 63,000,000 | 63,150,000 | 841 | 1207 | 0.09066011 | ACBD6 |
| 16 | 63,075,000 | 63,225,000 | 842 | 747 | -0.06987813 | ACBD6 |
| 16 | 63,150,000 | 63,300,000 | 843 | 640 | 0.152931322 | XPR1 |
| 16 | 63,225,000 | 63,375,000 | 844 | 701 | 0.334538532 | XPR1 |
| 16 | 63,300,000 | 63,450,000 | 845 | 591 | 0.81023469 | XPR1 |
| 16 | 63,375,000 | 63,525,000 | 846 | 595 | 0.980800647 | XPR1 |
| 16 | 63,450,000 | 63,600,000 | 847 | 895 | 0.75828496 | KIAA1614,STX6,XPR1 |
| 16 | 63,525,000 | 63,675,000 | 848 | 915 | 0.549222046 | KIAA1614,MR1,STX6 |
| 16 | 63,600,000 | 63,750,000 | 849 | 593 | 0.427464429 | IER5,MR1,STX6 |
| 16 | 63,675,000 | 63,825,000 | 850 | 931 | -0.202179436 | IER5 |
| 16 | 63,750,000 | 63,900,000 | 851 | 1085 | 0.082753456 | |
| 16 | 63,825,000 | 63,975,000 | 852 | 823 | 1.206797119 | |
| 16 | 63,900,000 | 64,050,000 | 853 | 797 | 0.99623118 | |
| 16 | 63,975,000 | 64,125,000 | 854 | 710 | 0.725509822 | CAV2.3 |
| 16 | 64,050,000 | 64,200,000 | 855 | 830 | 0.834293617 | CAV2.3 |
| 16 | 64,125,000 | 64,275,000 | 856 | 1113 | 0.929314402 | CAV2.3 |
| 16 | 64,200,000 | 64,350,000 | 857 | 954 | 0.638420044 | CAV2.3 |
| 16 | 64,275,000 | 64,425,000 | 858 | 761 | 0.454863713 | CAV2.3 |
| 16 | 64,350,000 | 64,500,000 | 859 | 893 | 0.448834385 | CAV2.3 |
| 16 | 64,425,000 | 64,575,000 | 860 | 739 | -0.135398345 | CAV2.3 |
| 16 | 64,500,000 | 64,650,000 | 861 | 467 | -0.4742099 | ZNF648 |
| 16 | 64,575,000 | 64,725,000 | 862 | 598 | -0.640265395 | ZNF648 |
| 16 | 64,650,000 | 64,800,000 | 863 | 737 | 0.519812193 | ZNF648 |
| 16 | 64,725,000 | 64,875,000 | 864 | 824 | 1.050801738 | |
| 16 | 64,800,000 | 64,950,000 | 865 | 930 | 0.31672644 | GLUL |
| 16 | 64,875,000 | 65,025,000 | 866 | 1094 | 0.451850733 | GLUL,TEDDM1,ENSBTAG00000000772 |
| 16 | 64,950,000 | 65,100,000 | 867 | 914 | 0.12095153 | GLUL,RGSL1,RNASEL,TEDDM1,ENSBTAG00000000772 |
| 16 | 65,025,000 | 65,175,000 | 868 | 625 | -0.272554232 | RGS16,RGSL1,RNASEL |
| 16 | 65,100,000 | 65,250,000 | 869 | 675 | 0.590532615 | RGS16,RGS8,RNASEL |
| 16 | 65,175,000 | 65,325,000 | 870 | 463 | 0.826810455 | RGS8 |
| 16 | 65,250,000 | 65,400,000 | 871 | 478 | 0.442510998 | DHX9,NPL |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 16 | 65,325,000 | 65,475,000 | 872 | 760 | 0.985236516 | C16H1ORF14,DHX9,NPL |
| 16 | 65,400,000 | 65,550,000 | 873 | 901 | 0.805327832 | C16H1ORF14,DHX9,LAMC1 |
| 16 | 65,475,000 | 65,625,000 | 874 | 849 | 0.077653089 | LAMC1 |
| 16 | 65,550,000 | 65,700,000 | 875 | 646 | 0.269132253 | LAMC1 |
| 16 | 65,625,000 | 65,775,000 | 876 | 839 | 0.626059982 | LAMC1,LAMC2 |
| 16 | 65,700,000 | 65,850,000 | 877 | 964 | 0.639402018 | LAMC2,NMNAT2 |
| 16 | 65,775,000 | 65,925,000 | 878 | 1271 | 0.412654141 | NMNAT2 |
| 16 | 65,850,000 | 66,000,000 | 879 | 1138 | 0.263092888 | NMNAT2 |
| 16 | 65,925,000 | 66,075,000 | 880 | 612 | 0.467141777 | NMNAT2,SMG7 |
| 16 | 66,000,000 | 66,150,000 | 881 | 897 | 0.502870969 | NCF2,SMG7 |
| 16 | 66,075,000 | 66,225,000 | 882 | 1083 | 0.031917796 | APOBEC4,ARPC5,NCF2,SMG7 |
| 16 | 66,150,000 | 66,300,000 | 883 | 1143 | 0.515741477 | APOBEC4,ARPC5 |
| 16 | 66,225,000 | 66,375,000 | 884 | 1158 | 0.921526971 | RGL1 |
| 16 | 66,300,000 | 66,450,000 | 885 | 1136 | 0.596588695 | RGL1 |
| 16 | 66,375,000 | 66,525,000 | 886 | 1294 | 0.206159049 | GLT25D2,RGL1 |
| 16 | 66,450,000 | 66,600,000 | 887 | 1265 | -1.304932791 | GLT25D2,TSEN15 |
| 16 | 66,525,000 | 66,675,000 | 888 | 1100 | -0.982227168 | GLT25D2,TSEN15 |
| 16 | 66,600,000 | 66,750,000 | 889 | 1113 | 0.668612749 | TSEN15 |
| 16 | 66,675,000 | 66,825,000 | 890 | 1172 | 0.74457667 | |
| 16 | 66,750,000 | 66,900,000 | 891 | 1234 | 0.403046732 | ENSBTAG00000046091 |
| 16 | 66,825,000 | 66,975,000 | 892 | 1302 | 0.2357586 | C16H1ORF21,ENSBTAG00000046091 |
| 16 | 66,900,000 | 67,050,000 | 893 | 1077 | 0.643351451 | C16H1ORF21 |
| 16 | 66,975,000 | 67,125,000 | 894 | 809 | 0.56995192 | C16H1ORF21 |
| 16 | 67,050,000 | 67,200,000 | 895 | 592 | 0.182755296 | C16H1ORF21 |
| 16 | 67,125,000 | 67,275,000 | 896 | 527 | 0.486256053 | C16H1ORF21,EDEM3 |
| 16 | 67,200,000 | 67,350,000 | 897 | 501 | 0.308264684 | EDEM3,FAM129A |
| 16 | 67,275,000 | 67,425,000 | 898 | 711 | 0.256708688 | EDEM3,FAM129A |
| 16 | 67,350,000 | 67,500,000 | 899 | 682 | 0.279883685 | FAM129A |
| 16 | 67,425,000 | 67,575,000 | 900 | 636 | -0.880018099 | FAM129A |
| 16 | 67,500,000 | 67,650,000 | 901 | 791 | -0.292795092 | RNF2,TRMT1L |
| 16 | 67,575,000 | 67,725,000 | 902 | 656 | 0.570950995 | C16H1ORF26,RNF2,TRMT1L |
| 16 | 67,650,000 | 67,800,000 | 903 | 664 | 0.141473149 | C16H1ORF26,IVNS1ABP,TRMT1L |
| 16 | 67,725,000 | 67,875,000 | 904 | 614 | 0.184147919 | C16H1ORF26,IVNS1ABP |
| 16 | 67,800,000 | 67,950,000 | 905 | 550 | 1.031196599 | |
| 16 | 67,875,000 | 68,025,000 | 906 | 624 | 0.586589441 | |
| 16 | 67,950,000 | 68,100,000 | 907 | 1026 | -0.588083118 | SMIM20 |
| 16 | 68,025,000 | 68,175,000 | 908 | 988 | -0.155313484 | SMIM20 |
| 16 | 68,100,000 | 68,250,000 | 909 | 510 | 0.82393811 | HMCN1 |
| 16 | 68,175,000 | 68,325,000 | 910 | 607 | -0.173184732 | HMCN1 |
| 16 | 68,250,000 | 68,400,000 | 911 | 782 | -0.586061292 | HMCN1 |
| 16 | 68,325,000 | 68,475,000 | 912 | 749 | 0.688625192 | HMCN1 |
| 16 | 68,400,000 | 68,550,000 | 913 | 866 | 0.692109771 | HMCN1 |
| 16 | 68,475,000 | 68,625,000 | 914 | 826 | 0.658124393 | HMCN1 |
| 16 | 68,550,000 | 68,700,000 | 915 | 631 | 0.493944352 | HMCN1 |
| 16 | 68,625,000 | 68,775,000 | 916 | 531 | -0.745263647 | HMCN1 |
| 16 | 68,700,000 | 68,850,000 | 917 | 810 | -1.339510333 | HMCN1 |
| 16 | 68,775,000 | 68,925,000 | 918 | 1129 | -3.915717641 | PRG4,TPR |
| 16 | 68,850,000 | 69,000,000 | 919 | 948 | -5.412023961 | C1orf27,PRG4,TPR,ENSBTAG00000047559 |
| 16 | 68,925,000 | 69,075,000 | 920 | 734 | -2.910996229 | C1orf27,PDC,TPR,ENSBTAG00000047559 |
| 16 | 69,000,000 | 69,150,000 | 921 | 811 | 0.435442459 | PDC |
| 16 | 69,075,000 | 69,225,000 | 922 | 873 | 0.599331897 | |
| 16 | 69,150,000 | 69,300,000 | 923 | 593 | -0.845317824 | PGHS-2 |
| 16 | 69,225,000 | 69,375,000 | 924 | 428 | -2.478361858 | PGHS-2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 69,300,000 | 69,450,000 | 925 | 643 | -1.090811249 | PLA2G4A |
| 16 | 69,375,000 | 69,525,000 | 926 | 842 | -0.583782598 | PLA2G4A |
| 16 | 69,450,000 | 69,600,000 | 927 | 616 | -2.722186918 | PLA2G4A |
| 16 | 69,525,000 | 69,675,000 | 928 | 522 | -3.696754612 | PLA2G4A |
| 16 | 69,600,000 | 69,750,000 | 929 | 545 | -1.738795416 | PLA2G4A |
| 16 | 69,675,000 | 69,825,000 | 930 | 736 | 0.25096938 | |
| 16 | 69,750,000 | 69,900,000 | 931 | 927 | 0.572291613 | KCNK2 |
| 16 | 69,825,000 | 69,975,000 | 932 | 819 | 0.283864747 | KCNK2 |
| 16 | 69,900,000 | 70,050,000 | 933 | 857 | -0.426347087 | KCNK2 |
| 16 | 69,975,000 | 70,125,000 | 934 | 852 | -0.516067735 | KCNK2 |
| 16 | 70,050,000 | 70,200,000 | 935 | 847 | -0.246983279 | KCNK2 |
| 16 | 70,125,000 | 70,275,000 | 936 | 712 | 0.012548739 | |
| 16 | 70,200,000 | 70,350,000 | 937 | 545 | 0.20136581 | |
| 16 | 70,275,000 | 70,425,000 | 938 | 958 | 0.311058224 | |
| 16 | 70,350,000 | 70,500,000 | 939 | 867 | 0.362402166 | CENPF |
| 16 | 70,425,000 | 70,575,000 | 940 | 392 | 0.298507928 | CENPF |
| 16 | 70,500,000 | 70,650,000 | 941 | 552 | -0.189622172 | CENPF,PTPN14 |
| 16 | 70,575,000 | 70,725,000 | 942 | 559 | 0.140670602 | PTPN14 |
| 16 | 70,650,000 | 70,800,000 | 943 | 858 | 0.756990039 | PTPN14,SMYD2 |
| 16 | 70,725,000 | 70,875,000 | 944 | 1087 | 0.664998586 | ELF3,PTPN14,RNPEP,SMYD2 |
| 16 | 70,800,000 | 70,950,000 | 945 | 667 | 0.54227249 | ARL8A,ELF3,GPR37L1,LGR6,PTPN7,RNPEP,SMYD2,ENSBTA G00000047073 |
| 16 | 70,875,000 | 71,025,000 | 946 | 600 | 0.353610305 | ARL8A,GPR37L1,LGR6,PTPN7,UBE2T,ENSBTAG0000004707 3 |
| 16 | 70,950,000 | 71,100,000 | 947 | 934 | 0.539360464 | LGR6,PPP1R12B,UBE2T |
| 16 | 71,025,000 | 71,175,000 | 948 | 970 | 0.836469472 | PPP1R12B,SYT2 |
| 16 | 71,100,000 | 71,250,000 | 949 | 733 | 0.360598784 | PPP1R12B,SYT2 |
| 16 | 71,175,000 | 71,325,000 | 950 | 857 | -0.058517597 | |
| 16 | 71,250,000 | 71,400,000 | 951 | 831 | -0.296851266 | |
| 16 | 71,325,000 | 71,475,000 | 952 | 451 | -0.667192353 | PROX1 |
| 16 | 71,400,000 | 71,550,000 | 953 | 433 | 0.065271728 | PROX1 |
| 16 | 71,475,000 | 71,625,000 | 954 | 562 | 0.38933791 | |
| 16 | 71,550,000 | 71,700,000 | 955 | 679 | 0.696272185 | |
| 16 | 71,625,000 | 71,775,000 | 956 | 860 | 0.304892999 | |
| 16 | 71,700,000 | 71,850,000 | 957 | 1064 | -0.023384196 | |
| 16 | 71,775,000 | 71,925,000 | 958 | 1048 | 0.255086827 | |
| 16 | 71,850,000 | 72,000,000 | 959 | 743 | -0.033364644 | |
| 16 | 71,925,000 | 72,075,000 | 960 | 624 | -1.454418243 | |
| 16 | 72,000,000 | 72,150,000 | 961 | 618 | -1.209377773 | |
| 16 | 72,075,000 | 72,225,000 | 962 | 880 | 0.902930462 | |
| 16 | 72,150,000 | 72,300,000 | 963 | 971 | 1.066414856 | RPS6KC1 |
| 16 | 72,225,000 | 72,375,000 | 964 | 741 | 0.508631049 | RPS6KC1 |
| 16 | 72,300,000 | 72,450,000 | 965 | 629 | 0.299446609 | RPS6KC1 |
| 16 | 72,375,000 | 72,525,000 | 966 | 440 | -0.322646311 | ANGEL2,RPS6KC1,VASH2 |
| 16 | 72,450,000 | 72,600,000 | 967 | 350 | -1.428331908 | ANGEL2,FLVCR1,VASH2 |
| 16 | 72,525,000 | 72,675,000 | 968 | 421 | -1.335296742 | FLVCR1,NSL1,SPATA45,TATDN3,VASH2 |
| 16 | 72,600,000 | 72,750,000 | 969 | 494 | -2.083950141 | BATF3,NSL1,SPATA45,TATDN3 |
| 16 | 72,675,000 | 72,825,000 | 970 | 411 | -2.904754394 | ATF3,BATF3,FAM71A,NSL1 |
| 16 | 72,750,000 | 72,900,000 | 971 | 391 | -3.862036832 | ATF3,BATF3,FAM71A |
| 16 | 72,825,000 | 72,975,000 | 972 | 590 | -2.025648999 | ATF3 |
| 16 | 72,900,000 | 73,050,000 | 973 | 718 | -0.708955617 | NENF,TMEM206 |
| 16 | 72,975,000 | 73,125,000 | 974 | 522 | -1.628368181 | NENF,PPP2R5A,TMEM206 |
| 16 | 73,050,000 | 73,200,000 | 975 | 381 | -2.251360665 | PPP2R5A,TMEM206 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------------|
| 16 | 73,125,000 | 73,275,000 | 976 | 628 | -1.194607883 | PPP2R5A |
| 16 | 73,200,000 | 73,350,000 | 977 | 679 | -1.145873632 | DTL |
| 16 | 73,275,000 | 73,425,000 | 978 | 564 | -0.559606121 | DTL,INTS7 |
| 16 | 73,350,000 | 73,500,000 | 979 | 602 | -0.095051838 | DTL,INTS7 |
| 16 | 73,425,000 | 73,575,000 | 980 | 576 | 0.19302908 | INTS7,LPGAT1 |
| 16 | 73,500,000 | 73,650,000 | 981 | 448 | 0.059997341 | LPGAT1 |
| 16 | 73,575,000 | 73,725,000 | 982 | 577 | -1.891043349 | LPGAT1,NEK2 |
| 16 | 73,650,000 | 73,800,000 | 983 | 659 | -0.560255861 | NEK2,SLC30A1 |
| 16 | 73,725,000 | 73,875,000 | 984 | 834 | 1.125742896 | RD3,SLC30A1 |
| 16 | 73,800,000 | 73,950,000 | 985 | 793 | 0.768491786 | RD3,TRAF5 |
| 16 | 73,875,000 | 74,025,000 | 986 | 363 | 0.166564505 | RCOR3,TRAF5 |
| 16 | 73,950,000 | 74,100,000 | 987 | 266 | 0.625771552 | RCOR3 |
| 16 | 74,025,000 | 74,175,000 | 988 | 461 | 0.888918186 | KCNH1 |
| 16 | 74,100,000 | 74,250,000 | 989 | 717 | 0.584583461 | KCNH1 |
| 16 | 74,175,000 | 74,325,000 | 990 | 844 | -0.422403006 | KCNH1 |
| 16 | 74,250,000 | 74,400,000 | 991 | 865 | -0.829363948 | KCNH1 |
| 16 | 74,325,000 | 74,475,000 | 992 | 686 | -1.144907472 | KCNH1 |
| 16 | 74,400,000 | 74,550,000 | 993 | 934 | 0.280115664 | KCNH1 |
| 16 | 74,475,000 | 74,625,000 | 994 | 1136 | 0.417124441 | KCNH1 |
| 16 | 74,550,000 | 74,700,000 | 995 | 814 | -0.464497118 | |
| 16 | 74,625,000 | 74,775,000 | 996 | 736 | -0.800303535 | |
| 16 | 74,700,000 | 74,850,000 | 997 | 791 | -0.753642522 | |
| 16 | 74,775,000 | 74,925,000 | 998 | 606 | -0.577875843 | |
| 16 | 74,850,000 | 75,000,000 | 999 | 377 | -0.418188179 | SERTAD4 |
| 16 | 74,925,000 | 75,075,000 | 1000 | 260 | -0.888364274 | SERTAD4,SYT14 |
| 16 | 75,000,000 | 75,150,000 | 1001 | 557 | -1.933618389 | SERTAD4,SYT14 |
| 16 | 75,075,000 | 75,225,000 | 1002 | 761 | -2.66589165 | SYT14 |
| 16 | 75,150,000 | 75,300,000 | 1003 | 835 | -2.978634381 | SYT14 |
| 16 | 75,225,000 | 75,375,000 | 1004 | 1054 | -2.237335683 | DIEXF |
| 16 | 75,300,000 | 75,450,000 | 1005 | 981 | -1.382011917 | C1orf74,DIEXF,IRF6,TRAF3IP3 |
| 16 | 75,375,000 | 75,525,000 | 1006 | 754 | -1.775494398 | C1orf74,HSD11B1,IRF6,TRAF3IP3 |
| 16 | 75,450,000 | 75,600,000 | 1007 | 684 | -1.369525129 | G0S2,HSD11B1,LAMB3 |
| 16 | 75,525,000 | 75,675,000 | 1008 | 715 | -0.474125791 | CAMK1G,G0S2,LAMB3 |
| 16 | 75,600,000 | 75,750,000 | 1009 | 1306 | -0.684214561 | CAMK1G,LAMB3 |
| 16 | 75,675,000 | 75,825,000 | 1010 | 1338 | -0.713140952 | |
| 16 | 75,750,000 | 75,900,000 | 1011 | 683 | -0.915929117 | |
| 16 | 75,825,000 | 75,975,000 | 1012 | 727 | -0.548766638 | |
| 16 | 75,900,000 | 76,050,000 | 1013 | 957 | -2.139794091 | |
| 16 | 75,975,000 | 76,125,000 | 1014 | 888 | -3.407489903 | |
| 16 | 76,050,000 | 76,200,000 | 1015 | 925 | -0.77295324 | |
| 16 | 76,125,000 | 76,275,000 | 1016 | 1187 | -0.051454088 | |
| 16 | 76,200,000 | 76,350,000 | 1017 | 1375 | -1.301581253 | |
| 16 | 76,275,000 | 76,425,000 | 1018 | 1040 | -0.706334793 | |
| 16 | 76,350,000 | 76,500,000 | 1019 | 620 | 1.194005357 | |
| 16 | 76,425,000 | 76,575,000 | 1020 | 760 | 0.860207505 | |
| 16 | 76,500,000 | 76,650,000 | 1021 | 916 | -0.010222938 | |
| 16 | 76,575,000 | 76,725,000 | 1022 | 1220 | -0.596174919 | |
| 16 | 76,650,000 | 76,800,000 | 1023 | 1145 | -0.39701105 | |
| 16 | 76,725,000 | 76,875,000 | 1024 | 765 | -0.100918032 | |
| 16 | 76,800,000 | 76,950,000 | 1025 | 790 | 0.486348378 | |
| 16 | 76,875,000 | 77,025,000 | 1026 | 888 | 0.639820823 | |
| 16 | 76,950,000 | 77,100,000 | 1027 | 762 | 0.655772291 | PLXNA2 |
| 16 | 77,025,000 | 77,175,000 | 1028 | 857 | 0.913940698 | PLXNA2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|------------------------------------|
| 16 | 77,100,000 | 77,250,000 | 1029 | 1312 | 0.953692644 | PLXNA2 |
| 16 | 77,175,000 | 77,325,000 | 1030 | 1211 | 0.823098497 | PLXNA2 |
| 16 | 77,250,000 | 77,400,000 | 1031 | 659 | -0.104508982 | CD34,PLXNA2 |
| 16 | 77,325,000 | 77,475,000 | 1032 | 568 | -0.434935013 | CD34 |
| 16 | 77,400,000 | 77,550,000 | 1033 | 571 | -0.110550971 | CD46 |
| 16 | 77,475,000 | 77,625,000 | 1034 | 1080 | 0.319904565 | CD46 |
| 16 | 77,550,000 | 77,700,000 | 1035 | 1473 | 0.454126793 | |
| 16 | 77,625,000 | 77,775,000 | 1036 | 984 | 0.513139361 | ENSBTAG00000030910 |
| 16 | 77,700,000 | 77,850,000 | 1037 | 854 | 0.710181897 | F13B,ENSBTAG00000030910 |
| 16 | 77,775,000 | 77,925,000 | 1038 | 1023 | 0.332916464 | ASPM,CFHR5,F13B,ENSBTAG00000030910 |
| 16 | 77,850,000 | 78,000,000 | 1039 | 855 | -1.380678142 | ASPM,CFHR5,F13B |
| 16 | 77,925,000 | 78,075,000 | 1040 | 582 | -3.266731414 | ASPM,ZBTB41 |
| 16 | 78,000,000 | 78,150,000 | 1041 | 960 | -1.741559133 | CRB1,ZBTB41 |
| 16 | 78,075,000 | 78,225,000 | 1042 | 1235 | -0.518458343 | CRB1 |
| 16 | 78,150,000 | 78,300,000 | 1043 | 981 | 0.745558256 | CRB1 |
| 16 | 78,225,000 | 78,375,000 | 1044 | 816 | 0.921503872 | CRB1 |
| 16 | 78,300,000 | 78,450,000 | 1045 | 706 | 1.070171044 | CRB1,DENND1B |
| 16 | 78,375,000 | 78,525,000 | 1046 | 732 | 1.146902931 | DENND1B |
| 16 | 78,450,000 | 78,600,000 | 1047 | 860 | 0.765699052 | DENND1B |
| 16 | 78,525,000 | 78,675,000 | 1048 | 742 | -0.156506454 | DENND1B |
| 16 | 78,600,000 | 78,750,000 | 1049 | 707 | -0.133719959 | |
| 16 | 78,675,000 | 78,825,000 | 1050 | 643 | -0.035274964 | LHX9 |
| 16 | 78,750,000 | 78,900,000 | 1051 | 345 | -0.500006832 | LHX9 |
| 16 | 78,825,000 | 78,975,000 | 1052 | 578 | -4.896989727 | |
| 16 | 78,900,000 | 79,050,000 | 1053 | 684 | -5.283419985 | |
| 16 | 78,975,000 | 79,125,000 | 1054 | 489 | -1.545508341 | NEK7 |
| 16 | 79,050,000 | 79,200,000 | 1055 | 374 | -1.173393662 | NEK7 |
| 16 | 79,125,000 | 79,275,000 | 1056 | 414 | -0.267788632 | NEK7 |
| 16 | 79,200,000 | 79,350,000 | 1057 | 1004 | 0.38681225 | ATP6V1G3 |
| 16 | 79,275,000 | 79,425,000 | 1058 | 1323 | 0.937988905 | ATP6V1G3 |
| 16 | 79,350,000 | 79,500,000 | 1059 | 1055 | 1.233507829 | ATP6V1G3 |
| 16 | 79,425,000 | 79,575,000 | 1060 | 1272 | 1.170354055 | PTPRC,ENSBTAG00000046345 |
| 16 | 79,500,000 | 79,650,000 | 1061 | 1337 | 0.442513899 | PTPRC,ENSBTAG00000046345 |
| 16 | 79,575,000 | 79,725,000 | 1062 | 1115 | 0.264044208 | PTPRC |
| 16 | 79,650,000 | 79,800,000 | 1063 | 1005 | 0.770337597 | |
| 16 | 79,725,000 | 79,875,000 | 1064 | 979 | 0.892444292 | |
| 16 | 79,800,000 | 79,950,000 | 1065 | 1193 | 0.522561721 | |
| 16 | 79,875,000 | 80,025,000 | 1066 | 953 | 0.184298733 | |
| 16 | 79,950,000 | 80,100,000 | 1067 | 763 | 0.209604089 | |
| 16 | 80,025,000 | 80,175,000 | 1068 | 805 | -0.120160396 | |
| 16 | 80,100,000 | 80,250,000 | 1069 | 1071 | 0.63993547 | |
| 16 | 80,175,000 | 80,325,000 | 1070 | 1017 | 1.1941133 | |
| 16 | 80,250,000 | 80,400,000 | 1071 | 630 | 0.84770622 | |
| 16 | 80,325,000 | 80,475,000 | 1072 | 790 | 0.308509514 | |
| 16 | 80,400,000 | 80,550,000 | 1073 | 907 | 0.154652283 | |
| 16 | 80,475,000 | 80,625,000 | 1074 | 781 | 0.208659024 | |
| 16 | 80,550,000 | 80,700,000 | 1075 | 582 | 0.570915239 | |
| 16 | 80,625,000 | 80,775,000 | 1076 | 431 | 0.650453385 | NR5A2 |
| 16 | 80,700,000 | 80,850,000 | 1077 | 598 | 0.606062665 | NR5A2 |
| 16 | 80,775,000 | 80,925,000 | 1078 | 712 | -0.047677258 | NR5A2 |
| 16 | 80,850,000 | 81,000,000 | 1079 | 887 | -0.525313607 | NR5A2 |
| 16 | 80,925,000 | 81,075,000 | 1080 | 930 | -0.046184137 | ZNF281 |
| 16 | 81,000,000 | 81,150,000 | 1081 | 761 | 0.583921557 | KIF14,ZNF281 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------|
| 16 | 81,075,000 | 81,225,000 | 1082 | 848 | 0.621750339 | DDX59,KIF14 |
| 16 | 81,150,000 | 81,300,000 | 1083 | 745 | 0.272462022 | CAMSAP2,DDX59,KIF14 |
| 16 | 81,225,000 | 81,375,000 | 1084 | 632 | -0.990451396 | C1orf106,CAMSAP2 |
| 16 | 81,300,000 | 81,450,000 | 1085 | 519 | -1.510670646 | C1orf106,CAMSAP2,KIF21B |
| 16 | 81,375,000 | 81,525,000 | 1086 | 542 | -0.225897205 | C1orf106,CACNA1S,KIF21B |
| 16 | 81,450,000 | 81,600,000 | 1087 | 594 | 0.222917601 | CACNA1S,TMEM9 |
| 16 | 81,525,000 | 81,675,000 | 1088 | 491 | 0.381989578 | CACNA1S,IGFN1,TMEM9 |
| 16 | 81,600,000 | 81,724,687 | 1089 | 379 | 0.225749979 | IGFN1,PKP1 |
| 17 | 0 | 150,000 | 1 | 644 | 0.29614493 | ENSBTAG00000048129 |
| 17 | 75,000 | 225,000 | 2 | 617 | 0.42375332 | TMEM192 |
| 17 | 150,000 | 300,000 | 3 | 911 | 0.180948654 | TMEM192 |
| 17 | 225,000 | 375,000 | 4 | 769 | 0.017852436 | KLHL2 |
| 17 | 300,000 | 450,000 | 5 | 714 | 0.821127852 | KLHL2 |
| 17 | 375,000 | 525,000 | 6 | 989 | 1.21288239 | KLHL2,SC4MOL |
| 17 | 450,000 | 600,000 | 7 | 1383 | 1.357581746 | CPE,KLHL2,SC4MOL |
| 17 | 525,000 | 675,000 | 8 | 1313 | 1.241899581 | CPE |
| 17 | 600,000 | 750,000 | 9 | 629 | 0.926388374 | CPE |
| 17 | 675,000 | 825,000 | 10 | 418 | 0.45537797 | CPE |
| 17 | 750,000 | 900,000 | 11 | 400 | -0.009852272 | |
| 17 | 825,000 | 975,000 | 12 | 431 | 0.170624952 | |
| 17 | 900,000 | 1,050,000 | 13 | 811 | 0.29014587 | |
| 17 | 975,000 | 1,125,000 | 14 | 1030 | 0.786302322 | |
| 17 | 1,050,000 | 1,200,000 | 15 | 945 | 0.737277 | |
| 17 | 1,125,000 | 1,275,000 | 16 | 789 | 0.242631168 | |
| 17 | 1,200,000 | 1,350,000 | 17 | 593 | -0.737002199 | |
| 17 | 1,275,000 | 1,425,000 | 18 | 764 | -0.865865877 | |
| 17 | 1,350,000 | 1,500,000 | 19 | 683 | -0.650455213 | TLL1 |
| 17 | 1,425,000 | 1,575,000 | 20 | 588 | 0.0294549 | TLL1 |
| 17 | 1,500,000 | 1,650,000 | 21 | 921 | -0.126421 | TLL1 |
| 17 | 1,575,000 | 1,725,000 | 22 | 1197 | -0.509835995 | TLL1 |
| 17 | 1,650,000 | 1,800,000 | 23 | 1232 | 0.080765266 | TLL1 |
| 17 | 1,725,000 | 1,875,000 | 24 | 1299 | 0.955723513 | TLL1 |
| 17 | 1,800,000 | 1,950,000 | 25 | 1703 | 1.120600329 | MAP9,TLL1 |
| 17 | 1,875,000 | 2,025,000 | 26 | 2107 | 1.248602598 | MAP9 |
| 17 | 1,950,000 | 2,100,000 | 27 | 1531 | 1.316953834 | NPY2R |
| 17 | 2,025,000 | 2,175,000 | 28 | 974 | 0.985004898 | NPY2R |
| 17 | 2,100,000 | 2,250,000 | 29 | 1238 | 0.857959746 | |
| 17 | 2,175,000 | 2,325,000 | 30 | 1324 | 0.865278508 | |
| 17 | 2,250,000 | 2,400,000 | 31 | 1637 | 0.832565157 | |
| 17 | 2,325,000 | 2,475,000 | 32 | 1643 | 0.723374808 | |
| 17 | 2,400,000 | 2,550,000 | 33 | 1032 | 0.518462575 | RBM46 |
| 17 | 2,475,000 | 2,625,000 | 34 | 1033 | 0.502201554 | RBM46 |
| 17 | 2,550,000 | 2,700,000 | 35 | 1164 | 0.588362438 | LRAT,RBM46 |
| 17 | 2,625,000 | 2,775,000 | 36 | 773 | 0.026969132 | LRAT |
| 17 | 2,700,000 | 2,850,000 | 37 | 645 | -0.080566811 | FGA,FGG |
| 17 | 2,775,000 | 2,925,000 | 38 | 1063 | 0.384839384 | FGA,FGB,FGG,PLRG1 |
| 17 | 2,850,000 | 3,000,000 | 39 | 1309 | 0.398481828 | FGB,PLRG1 |
| 17 | 2,925,000 | 3,075,000 | 40 | 1138 | -0.11044517 | |
| 17 | 3,000,000 | 3,150,000 | 41 | 752 | -0.382092192 | DCHS2 |
| 17 | 3,075,000 | 3,225,000 | 42 | 653 | -0.873493153 | DCHS2 |
| 17 | 3,150,000 | 3,300,000 | 43 | 632 | -1.5425137 | DCHS2 |
| 17 | 3,225,000 | 3,375,000 | 44 | 754 | -0.011563913 | DCHS2 |
| 17 | 3,300,000 | 3,450,000 | 45 | 805 | 0.459217954 | DCHS2 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|----------------------|
| 17 | 3,375,000 | 3,525,000 | 46 | 691 | 0.697998967 | |
| 17 | 3,450,000 | 3,600,000 | 47 | 963 | 0.752871584 | |
| 17 | 3,525,000 | 3,675,000 | 48 | 1136 | 0.53781652 | |
| 17 | 3,600,000 | 3,750,000 | 49 | 913 | 0.515017846 | |
| 17 | 3,675,000 | 3,825,000 | 50 | 569 | 0.361629699 | |
| 17 | 3,750,000 | 3,900,000 | 51 | 1041 | 0.88119734 | RNF175,SFRP2 |
| 17 | 3,825,000 | 3,975,000 | 52 | 1554 | 1.152168199 | RNF175,SFRP2,TLR2 |
| 17 | 3,900,000 | 4,050,000 | 53 | 1367 | 1.251034477 | KIAA0922,RNF175,TLR2 |
| 17 | 3,975,000 | 4,125,000 | 54 | 956 | 1.109027166 | KIAA0922 |
| 17 | 4,050,000 | 4,200,000 | 55 | 760 | 0.278857668 | KIAA0922 |
| 17 | 4,125,000 | 4,275,000 | 56 | 938 | -1.109341769 | MND1 |
| 17 | 4,200,000 | 4,350,000 | 57 | 1287 | -0.731658392 | MND1,TRIM2 |
| 17 | 4,275,000 | 4,425,000 | 58 | 1698 | 0.543901935 | MND1,TRIM2 |
| 17 | 4,350,000 | 4,500,000 | 59 | 1600 | 0.765686033 | TRIM2 |
| 17 | 4,425,000 | 4,575,000 | 60 | 1436 | 1.007554534 | TRIM2 |
| 17 | 4,500,000 | 4,650,000 | 61 | 1408 | 0.594867109 | |
| 17 | 4,575,000 | 4,725,000 | 62 | 1338 | 0.707294921 | FHDC1 |
| 17 | 4,650,000 | 4,800,000 | 63 | 1269 | 0.499473057 | ARFIP1,FHDC1 |
| 17 | 4,725,000 | 4,875,000 | 64 | 1556 | -1.971511965 | ARFIP1 |
| 17 | 4,800,000 | 4,950,000 | 65 | 1704 | -1.211061105 | ARFIP1,TIGD4 |
| 17 | 4,875,000 | 5,025,000 | 66 | 1481 | -0.059972124 | TIGD4 |
| 17 | 4,950,000 | 5,100,000 | 67 | 1751 | 0.293835845 | |
| 17 | 5,025,000 | 5,175,000 | 68 | 1859 | 0.537721402 | |
| 17 | 5,100,000 | 5,250,000 | 69 | 1715 | 1.142035978 | |
| 17 | 5,175,000 | 5,325,000 | 70 | 1407 | 1.084101446 | FBXW7 |
| 17 | 5,250,000 | 5,400,000 | 71 | 1329 | 0.728146563 | FBXW7 |
| 17 | 5,325,000 | 5,475,000 | 72 | 1410 | 0.664134089 | FBXW7 |
| 17 | 5,400,000 | 5,550,000 | 73 | 1311 | 0.512509439 | |
| 17 | 5,475,000 | 5,625,000 | 74 | 890 | 0.214719085 | |
| 17 | 5,550,000 | 5,700,000 | 75 | 474 | -0.139007441 | |
| 17 | 5,625,000 | 5,775,000 | 76 | 660 | 0.180199568 | |
| 17 | 5,700,000 | 5,850,000 | 77 | 1227 | 0.422222875 | |
| 17 | 5,775,000 | 5,925,000 | 78 | 1222 | 0.395118914 | |
| 17 | 5,850,000 | 6,000,000 | 79 | 864 | 0.690668285 | PET112L |
| 17 | 5,925,000 | 6,075,000 | 80 | 772 | 1.205189119 | PET112L |
| 17 | 6,000,000 | 6,150,000 | 81 | 989 | 1.152230134 | FAM160A1,PET112L |
| 17 | 6,075,000 | 6,225,000 | 82 | 1005 | 1.160382765 | FAM160A1,PET112L |
| 17 | 6,150,000 | 6,300,000 | 83 | 702 | 1.094128269 | FAM160A1 |
| 17 | 6,225,000 | 6,375,000 | 84 | 770 | 0.841205946 | |
| 17 | 6,300,000 | 6,450,000 | 85 | 1043 | -0.016272373 | |
| 17 | 6,375,000 | 6,525,000 | 86 | 982 | -0.354111576 | PRSS48 |
| 17 | 6,450,000 | 6,600,000 | 87 | 773 | 0.53113554 | PRSS48 |
| 17 | 6,525,000 | 6,675,000 | 88 | 722 | 0.664067047 | PRSS48,SH3D19 |
| 17 | 6,600,000 | 6,750,000 | 89 | 880 | 0.447361315 | RPS3A,SH3D19 |
| 17 | 6,675,000 | 6,825,000 | 90 | 1094 | 0.732682334 | RPS3A,SH3D19 |
| 17 | 6,750,000 | 6,900,000 | 91 | 1007 | 1.169976948 | LRBA |
| 17 | 6,825,000 | 6,975,000 | 92 | 726 | 1.158082446 | LRBA |
| 17 | 6,900,000 | 7,050,000 | 93 | 593 | 1.019843976 | LRBA |
| 17 | 6,975,000 | 7,125,000 | 94 | 923 | 1.054985451 | LRBA |
| 17 | 7,050,000 | 7,200,000 | 95 | 1139 | 0.222353995 | LRBA |
| 17 | 7,125,000 | 7,275,000 | 96 | 795 | -0.851100431 | LRBA,MAB21L2 |
| 17 | 7,200,000 | 7,350,000 | 97 | 548 | -0.168235508 | LRBA,MAB21L2 |
| 17 | 7,275,000 | 7,425,000 | 98 | 532 | 0.140180031 | LRBA |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 17 | 7,350,000 | 7,500,000 | 99 | 484 | -0.398010188 | LRBA |
| 17 | 7,425,000 | 7,575,000 | 100 | 764 | 0.218997854 | DCLK2,LRBA |
| 17 | 7,500,000 | 7,650,000 | 101 | 648 | 0.631611866 | DCLK2,LRBA |
| 17 | 7,575,000 | 7,725,000 | 102 | 496 | 0.81454984 | DCLK2 |
| 17 | 7,650,000 | 7,800,000 | 103 | 789 | -0.143042795 | DCLK2 |
| 17 | 7,725,000 | 7,875,000 | 104 | 988 | 0.641735019 | DCLK2 |
| 17 | 7,800,000 | 7,950,000 | 105 | 1053 | 1.220861848 | |
| 17 | 7,875,000 | 8,025,000 | 106 | 838 | 0.927425702 | |
| 17 | 7,950,000 | 8,100,000 | 107 | 740 | 0.642868149 | |
| 17 | 8,025,000 | 8,175,000 | 108 | 656 | 0.954700172 | |
| 17 | 8,100,000 | 8,250,000 | 109 | 604 | 1.175940273 | |
| 17 | 8,175,000 | 8,325,000 | 110 | 935 | 0.444220213 | |
| 17 | 8,250,000 | 8,400,000 | 111 | 1007 | -0.555251424 | |
| 17 | 8,325,000 | 8,475,000 | 112 | 913 | 0.062546792 | |
| 17 | 8,400,000 | 8,550,000 | 113 | 1020 | 0.760139226 | |
| 17 | 8,475,000 | 8,625,000 | 114 | 1124 | 0.905005451 | |
| 17 | 8,550,000 | 8,700,000 | 115 | 887 | 0.930316531 | |
| 17 | 8,625,000 | 8,775,000 | 116 | 922 | 0.528937116 | |
| 17 | 8,700,000 | 8,850,000 | 117 | 1558 | 0.15063322 | |
| 17 | 8,775,000 | 8,925,000 | 118 | 2117 | -0.665740997 | ENSBTAG00000045580 |
| 17 | 8,850,000 | 9,000,000 | 119 | 2082 | -1.696457031 | ENSBTAG00000045580 |
| 17 | 8,925,000 | 9,075,000 | 120 | 1210 | -0.68399778 | |
| 17 | 9,000,000 | 9,150,000 | 121 | 763 | 0.93513668 | |
| 17 | 9,075,000 | 9,225,000 | 122 | 808 | 0.553328789 | |
| 17 | 9,150,000 | 9,300,000 | 123 | 1021 | -0.029984672 | |
| 17 | 9,225,000 | 9,375,000 | 124 | 1237 | 0.614668145 | |
| 17 | 9,300,000 | 9,450,000 | 125 | 1167 | 1.005402294 | |
| 17 | 9,375,000 | 9,525,000 | 126 | 1058 | 0.073326722 | |
| 17 | 9,450,000 | 9,600,000 | 127 | 671 | -1.150472234 | |
| 17 | 9,525,000 | 9,675,000 | 128 | 625 | 0.859559752 | |
| 17 | 9,600,000 | 9,750,000 | 129 | 734 | 0.924670767 | NR3C2 |
| 17 | 9,675,000 | 9,825,000 | 130 | 844 | 0.851019183 | NR3C2 |
| 17 | 9,750,000 | 9,900,000 | 131 | 861 | 1.048931179 | NR3C2 |
| 17 | 9,825,000 | 9,975,000 | 132 | 715 | 1.196510124 | NR3C2 |
| 17 | 9,900,000 | 10,050,000 | 133 | 605 | 1.138928253 | NR3C2 |
| 17 | 9,975,000 | 10,125,000 | 134 | 471 | 0.846290523 | NR3C2 |
| 17 | 10,050,000 | 10,200,000 | 135 | 505 | 0.366671174 | ARHGAP10,NR3C2 |
| 17 | 10,125,000 | 10,275,000 | 136 | 783 | -0.405500503 | ARHGAP10,NR3C2 |
| 17 | 10,200,000 | 10,350,000 | 137 | 1157 | -0.318025612 | ARHGAP10 |
| 17 | 10,275,000 | 10,425,000 | 138 | 1141 | -0.027332946 | ARHGAP10 |
| 17 | 10,350,000 | 10,500,000 | 139 | 1022 | 0.305926063 | ARHGAP10 |
| 17 | 10,425,000 | 10,575,000 | 140 | 786 | -0.445951255 | ARHGAP10 |
| 17 | 10,500,000 | 10,650,000 | 141 | 646 | -2.624238199 | ARHGAP10,MGC151858,TMEM34 |
| 17 | 10,575,000 | 10,725,000 | 142 | 634 | -0.684950424 | MGC151858,TMEM34 |
| 17 | 10,650,000 | 10,800,000 | 143 | 832 | 0.106437852 | EDNRA,TMEM34 |
| 17 | 10,725,000 | 10,875,000 | 144 | 1199 | -0.940228888 | EDNRA |
| 17 | 10,800,000 | 10,950,000 | 145 | 1194 | -0.006985574 | EDNRA |
| 17 | 10,875,000 | 11,025,000 | 146 | 1122 | 0.473587674 | |
| 17 | 10,950,000 | 11,100,000 | 147 | 1018 | 0.28661262 | |
| 17 | 11,025,000 | 11,175,000 | 148 | 704 | 0.600780969 | |
| 17 | 11,100,000 | 11,250,000 | 149 | 611 | 0.383625843 | |
| 17 | 11,175,000 | 11,325,000 | 150 | 1041 | 0.571284429 | |
| 17 | 11,250,000 | 11,400,000 | 151 | 1131 | 0.652090609 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 17 | 11,325,000 | 11,475,000 | 152 | 750 | 0.104564776 | |
| 17 | 11,400,000 | 11,550,000 | 153 | 733 | -0.642286422 | TTC29 |
| 17 | 11,475,000 | 11,625,000 | 154 | 714 | -0.152970512 | TTC29 |
| 17 | 11,550,000 | 11,700,000 | 155 | 524 | 0.507585326 | TTC29 |
| 17 | 11,625,000 | 11,775,000 | 156 | 724 | 0.060689174 | RNF146A,TTC29 |
| 17 | 11,700,000 | 11,850,000 | 157 | 869 | -0.2102803 | POU4F2,RNF146A,TTC29 |
| 17 | 11,775,000 | 11,925,000 | 158 | 870 | -0.34715433 | POU4F2,SLC10A7 |
| 17 | 11,850,000 | 12,000,000 | 159 | 1267 | -0.596983057 | SLC10A7 |
| 17 | 11,925,000 | 12,075,000 | 160 | 1447 | 0.001114325 | SLC10A7 |
| 17 | 12,000,000 | 12,150,000 | 161 | 1180 | 0.145652003 | SLC10A7 |
| 17 | 12,075,000 | 12,225,000 | 162 | 842 | -2.095707291 | ENSBTAG00000048020 |
| 17 | 12,150,000 | 12,300,000 | 163 | 724 | -4.771607368 | ENSBTAG00000048020 |
| 17 | 12,225,000 | 12,375,000 | 164 | 828 | -2.045233572 | LSM6,ENSBTAG00000048020 |
| 17 | 12,300,000 | 12,450,000 | 165 | 695 | 0.833109027 | LSM6 |
| 17 | 12,375,000 | 12,525,000 | 166 | 842 | 0.973906999 | |
| 17 | 12,450,000 | 12,600,000 | 167 | 1039 | 0.082783507 | ZNF827 |
| 17 | 12,525,000 | 12,675,000 | 168 | 765 | -0.278242114 | ZNF827 |
| 17 | 12,600,000 | 12,750,000 | 169 | 590 | 0.465076421 | ZNF827,ENSBTAG00000019880 |
| 17 | 12,675,000 | 12,825,000 | 170 | 663 | 0.863107138 | MMAA,ZNF827,ENSBTAG00000019880 |
| 17 | 12,750,000 | 12,900,000 | 171 | 592 | 0.722172925 | MMAA |
| 17 | 12,825,000 | 12,975,000 | 172 | 466 | -0.276694079 | MMAA,SMAD1 |
| 17 | 12,900,000 | 13,050,000 | 173 | 569 | 0.213270494 | SMAD1 |
| 17 | 12,975,000 | 13,125,000 | 174 | 501 | 0.520509953 | |
| 17 | 13,050,000 | 13,200,000 | 175 | 239 | 0.644503503 | |
| 17 | 13,125,000 | 13,275,000 | 176 | 833 | 1.241578363 | |
| 17 | 13,200,000 | 13,350,000 | 177 | 1410 | 1.273215424 | ABCE1,OTUD4 |
| 17 | 13,275,000 | 13,425,000 | 178 | 1352 | 1.272976579 | ABCE1,ANAPC10,OTUD4 |
| 17 | 13,350,000 | 13,500,000 | 179 | 1271 | 1.32314159 | ABCE1,ANAPC10 |
| 17 | 13,425,000 | 13,575,000 | 180 | 1318 | 1.387221634 | ANAPC10 |
| 17 | 13,500,000 | 13,650,000 | 181 | 1372 | 1.267873653 | HHIP |
| 17 | 13,575,000 | 13,725,000 | 182 | 1294 | 0.811693417 | HHIP |
| 17 | 13,650,000 | 13,800,000 | 183 | 1237 | 0.47940678 | HHIP |
| 17 | 13,725,000 | 13,875,000 | 184 | 1382 | 0.66744362 | HHIP |
| 17 | 13,800,000 | 13,950,000 | 185 | 1906 | 0.764299402 | |
| 17 | 13,875,000 | 14,025,000 | 186 | 1953 | 0.280981091 | |
| 17 | 13,950,000 | 14,100,000 | 187 | 1924 | 0.059600102 | |
| 17 | 14,025,000 | 14,175,000 | 188 | 2134 | 0.218068034 | |
| 17 | 14,100,000 | 14,250,000 | 189 | 1806 | -0.325792515 | GPA |
| 17 | 14,175,000 | 14,325,000 | 190 | 2231 | -0.191164179 | GPA,GYPB |
| 17 | 14,250,000 | 14,400,000 | 191 | 2596 | -0.106496126 | GPA,GYPB |
| 17 | 14,325,000 | 14,475,000 | 192 | 2454 | -0.444020178 | GYPB |
| 17 | 14,400,000 | 14,550,000 | 193 | 2446 | -0.585335424 | SMARCA5 |
| 17 | 14,475,000 | 14,625,000 | 194 | 1860 | -1.269746484 | SMARCA5 |
| 17 | 14,550,000 | 14,700,000 | 195 | 1472 | -1.509797175 | GAB1,SMARCA5 |
| 17 | 14,625,000 | 14,775,000 | 196 | 1057 | -1.67477803 | GAB1 |
| 17 | 14,700,000 | 14,850,000 | 197 | 1161 | -0.337875157 | GAB1 |
| 17 | 14,775,000 | 14,925,000 | 198 | 1250 | 0.304873543 | USP38 |
| 17 | 14,850,000 | 15,000,000 | 199 | 1009 | 1.000196819 | USP38 |
| 17 | 14,925,000 | 15,075,000 | 200 | 1603 | 0.989059015 | |
| 17 | 15,000,000 | 15,150,000 | 201 | 1930 | 0.876702928 | |
| 17 | 15,075,000 | 15,225,000 | 202 | 1587 | 1.070520977 | |
| 17 | 15,150,000 | 15,300,000 | 203 | 1587 | 0.635877373 | ENSBTAG00000045665 |
| 17 | 15,225,000 | 15,375,000 | 204 | 1690 | 0.362691389 | ENSBTAG00000045665 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 15,300,000 | 15,450,000 | 205 | 1176 | 0.62675702 | |
| 17 | 15,375,000 | 15,525,000 | 206 | 886 | 0.121981222 | |
| 17 | 15,450,000 | 15,600,000 | 207 | 1269 | -0.716483326 | |
| 17 | 15,525,000 | 15,675,000 | 208 | 1823 | 0.37778903 | |
| 17 | 15,600,000 | 15,750,000 | 209 | 1811 | 0.829216611 | INPP4B |
| 17 | 15,675,000 | 15,825,000 | 210 | 1448 | 0.101563652 | INPP4B |
| 17 | 15,750,000 | 15,900,000 | 211 | 1078 | -0.071977847 | INPP4B |
| 17 | 15,825,000 | 15,975,000 | 212 | 806 | 0.488962283 | INPP4B |
| 17 | 15,900,000 | 16,050,000 | 213 | 816 | -0.257641448 | INPP4B |
| 17 | 15,975,000 | 16,125,000 | 214 | 651 | -0.116597333 | INPP4B |
| 17 | 16,050,000 | 16,200,000 | 215 | 685 | 0.855280569 | INPP4B |
| 17 | 16,125,000 | 16,275,000 | 216 | 649 | 0.937094677 | |
| 17 | 16,200,000 | 16,350,000 | 217 | 525 | 0.32172164 | IL15 |
| 17 | 16,275,000 | 16,425,000 | 218 | 717 | 0.456600167 | IL15 |
| 17 | 16,350,000 | 16,500,000 | 219 | 653 | 0.537847972 | IL15 |
| 17 | 16,425,000 | 16,575,000 | 220 | 603 | 0.176561548 | |
| 17 | 16,500,000 | 16,650,000 | 221 | 760 | 0.470704931 | |
| 17 | 16,575,000 | 16,725,000 | 222 | 808 | -0.263651363 | |
| 17 | 16,650,000 | 16,800,000 | 223 | 863 | -1.78197096 | |
| 17 | 16,725,000 | 16,875,000 | 224 | 959 | -0.541898234 | ZNF330 |
| 17 | 16,800,000 | 16,950,000 | 225 | 877 | 0.602593171 | ZNF330 |
| 17 | 16,875,000 | 17,025,000 | 226 | 742 | 0.409076711 | |
| 17 | 16,950,000 | 17,100,000 | 227 | 839 | 0.58985145 | |
| 17 | 17,025,000 | 17,175,000 | 228 | 992 | 0.751115761 | |
| 17 | 17,100,000 | 17,250,000 | 229 | 1295 | 0.395838061 | |
| 17 | 17,175,000 | 17,325,000 | 230 | 1516 | 0.429502284 | |
| 17 | 17,250,000 | 17,400,000 | 231 | 1327 | 0.576654588 | TBC1D9 |
| 17 | 17,325,000 | 17,475,000 | 232 | 1291 | -0.435271 | TBC1D9,UCP1 |
| 17 | 17,400,000 | 17,550,000 | 233 | 1015 | -0.80404724 | ELMOD2,MGAT4D,TBC1D9,UCP1 |
| 17 | 17,475,000 | 17,625,000 | 234 | 509 | 0.650177427 | CLGN,ELMOD2,MGAT4D |
| 17 | 17,550,000 | 17,700,000 | 235 | 420 | 0.901106816 | CLGN,MGAT4D,SCOC |
| 17 | 17,625,000 | 17,775,000 | 236 | 557 | 0.628324564 | SCOC |
| 17 | 17,700,000 | 17,850,000 | 237 | 789 | 0.652677784 | |
| 17 | 17,775,000 | 17,925,000 | 238 | 676 | 0.718124403 | |
| 17 | 17,850,000 | 18,000,000 | 239 | 460 | -0.165711851 | |
| 17 | 17,925,000 | 18,075,000 | 240 | 814 | 0.619028608 | |
| 17 | 18,000,000 | 18,150,000 | 241 | 805 | 1.056751354 | MAML3 |
| 17 | 18,075,000 | 18,225,000 | 242 | 490 | 1.246398826 | MAML3 |
| 17 | 18,150,000 | 18,300,000 | 243 | 727 | 1.196874189 | MAML3 |
| 17 | 18,225,000 | 18,375,000 | 244 | 850 | 0.888278104 | MAML3,MGST2 |
| 17 | 18,300,000 | 18,450,000 | 245 | 1001 | 0.416017904 | MAML3,MGST2 |
| 17 | 18,375,000 | 18,525,000 | 246 | 790 | 0.179783277 | SETD7 |
| 17 | 18,450,000 | 18,600,000 | 247 | 434 | -1.446836417 | RAB33B,SETD7 |
| 17 | 18,525,000 | 18,675,000 | 248 | 360 | -1.535709751 | NAA15,RAB33B |
| 17 | 18,600,000 | 18,750,000 | 249 | 246 | 0.852041741 | MGARP,NAA15,NDUFC1,THOC7 |
| 17 | 18,675,000 | 18,825,000 | 250 | 274 | 0.534233956 | ELF2,MGARP,NAA15,NDUFC1,THOC7,ENSBTAG00000015811 |
| 17 | 18,750,000 | 18,900,000 | 251 | 249 | -0.953934555 | CCRN4L,ELF2,ENSBTAG00000015811 |
| 17 | 18,825,000 | 18,975,000 | 252 | 245 | -2.691771542 | CCRN4L,ELF2 |
| 17 | 18,900,000 | 19,050,000 | 253 | 452 | -0.504572147 | CCRN4L |
| 17 | 18,975,000 | 19,125,000 | 254 | 682 | 0.463666515 | |
| 17 | 19,050,000 | 19,200,000 | 255 | 1052 | -0.565419871 | |
| 17 | 19,125,000 | 19,275,000 | 256 | 1289 | -1.81952441 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 17 | 19,200,000 | 19,350,000 | 257 | 1041 | -2.007217961 | |
| 17 | 19,275,000 | 19,425,000 | 258 | 903 | -0.549331276 | |
| 17 | 19,350,000 | 19,500,000 | 259 | 973 | -1.893666181 | ENSBTAG00000034089 |
| 17 | 19,425,000 | 19,575,000 | 260 | 1157 | -1.414958824 | ENSBTAG00000034089 |
| 17 | 19,500,000 | 19,650,000 | 261 | 1209 | 0.011499558 | |
| 17 | 19,575,000 | 19,725,000 | 262 | 945 | -0.356780433 | |
| 17 | 19,650,000 | 19,800,000 | 263 | 812 | -0.693524153 | SLC7A11 |
| 17 | 19,725,000 | 19,875,000 | 264 | 1012 | -0.632079844 | SLC7A11 |
| 17 | 19,800,000 | 19,950,000 | 265 | 755 | -0.481640999 | SLC7A11 |
| 17 | 19,875,000 | 20,025,000 | 266 | 626 | 0.212817391 | |
| 17 | 19,950,000 | 20,100,000 | 267 | 724 | 0.339610032 | |
| 17 | 20,025,000 | 20,175,000 | 268 | 906 | 0.610567352 | |
| 17 | 20,100,000 | 20,250,000 | 269 | 1418 | 0.96363774 | |
| 17 | 20,175,000 | 20,325,000 | 270 | 1413 | 0.836994617 | |
| 17 | 20,250,000 | 20,400,000 | 271 | 1268 | -0.194658094 | |
| 17 | 20,325,000 | 20,475,000 | 272 | 1197 | -0.518221698 | |
| 17 | 20,400,000 | 20,550,000 | 273 | 1047 | -0.065234273 | |
| 17 | 20,475,000 | 20,625,000 | 274 | 853 | -1.144834943 | PCDH18 |
| 17 | 20,550,000 | 20,700,000 | 275 | 542 | -1.997770754 | PCDH18 |
| 17 | 20,625,000 | 20,775,000 | 276 | 469 | 0.309662665 | |
| 17 | 20,700,000 | 20,850,000 | 277 | 701 | 0.77327007 | |
| 17 | 20,775,000 | 20,925,000 | 278 | 1040 | 0.407723111 | |
| 17 | 20,850,000 | 21,000,000 | 279 | 1053 | -1.00868623 | |
| 17 | 20,925,000 | 21,075,000 | 280 | 1021 | -1.38791705 | |
| 17 | 21,000,000 | 21,150,000 | 281 | 1176 | -0.912300066 | |
| 17 | 21,075,000 | 21,225,000 | 282 | 1136 | -0.352253698 | |
| 17 | 21,150,000 | 21,300,000 | 283 | 796 | 0.334420926 | |
| 17 | 21,225,000 | 21,375,000 | 284 | 470 | -0.488289969 | |
| 17 | 21,300,000 | 21,450,000 | 285 | 479 | 0.388825446 | |
| 17 | 21,375,000 | 21,525,000 | 286 | 757 | 0.952415506 | |
| 17 | 21,450,000 | 21,600,000 | 287 | 1117 | 0.88534144 | |
| 17 | 21,525,000 | 21,675,000 | 288 | 1078 | 0.910303833 | |
| 17 | 21,600,000 | 21,750,000 | 289 | 1109 | 1.103085314 | |
| 17 | 21,675,000 | 21,825,000 | 290 | 1489 | 1.134953374 | |
| 17 | 21,750,000 | 21,900,000 | 291 | 1376 | 0.531431367 | |
| 17 | 21,825,000 | 21,975,000 | 292 | 1401 | -0.305711539 | |
| 17 | 21,900,000 | 22,050,000 | 293 | 1564 | -0.696404486 | |
| 17 | 21,975,000 | 22,125,000 | 294 | 1207 | -2.109398378 | |
| 17 | 22,050,000 | 22,200,000 | 295 | 671 | -2.860279878 | |
| 17 | 22,125,000 | 22,275,000 | 296 | 285 | -1.598072104 | |
| 17 | 22,200,000 | 22,350,000 | 297 | 481 | -1.987180966 | |
| 17 | 22,275,000 | 22,425,000 | 298 | 951 | -2.02204782 | |
| 17 | 22,350,000 | 22,500,000 | 299 | 754 | -1.85049678 | |
| 17 | 22,425,000 | 22,575,000 | 300 | 485 | -0.402562849 | |
| 17 | 22,500,000 | 22,650,000 | 301 | 670 | 0.193840263 | |
| 17 | 22,575,000 | 22,725,000 | 302 | 662 | 0.130852142 | |
| 17 | 22,650,000 | 22,800,000 | 303 | 706 | 0.284024355 | |
| 17 | 22,725,000 | 22,875,000 | 304 | 624 | 0.448339181 | |
| 17 | 22,800,000 | 22,950,000 | 305 | 599 | 0.3851841 | |
| 17 | 22,875,000 | 23,025,000 | 306 | 775 | -0.186958486 | |
| 17 | 22,950,000 | 23,100,000 | 307 | 835 | -1.154709306 | |
| 17 | 23,025,000 | 23,175,000 | 308 | 980 | -1.06374921 | |
| 17 | 23,100,000 | 23,250,000 | 309 | 901 | -0.154726146 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 17 | 23,175,000 | 23,325,000 | 310 | 776 | 0.949764391 | |
| 17 | 23,250,000 | 23,400,000 | 311 | 905 | 1.272685597 | |
| 17 | 23,325,000 | 23,475,000 | 312 | 1116 | 0.104373403 | |
| 17 | 23,400,000 | 23,550,000 | 313 | 966 | -0.138717935 | ENSBTAG00000033967 |
| 17 | 23,475,000 | 23,625,000 | 314 | 849 | 0.553567657 | ENSBTAG00000033967 |
| 17 | 23,550,000 | 23,700,000 | 315 | 783 | 0.007128244 | |
| 17 | 23,625,000 | 23,775,000 | 316 | 358 | 0.75832467 | |
| 17 | 23,700,000 | 23,850,000 | 317 | 485 | 1.109266317 | |
| 17 | 23,775,000 | 23,925,000 | 318 | 576 | 0.135891447 | |
| 17 | 23,850,000 | 24,000,000 | 319 | 452 | 0.672638861 | |
| 17 | 23,925,000 | 24,075,000 | 320 | 514 | 1.102019541 | |
| 17 | 24,000,000 | 24,150,000 | 321 | 427 | 1.025366154 | |
| 17 | 24,075,000 | 24,225,000 | 322 | 303 | 1.041880823 | |
| 17 | 24,150,000 | 24,300,000 | 323 | 898 | 0.701210069 | |
| 17 | 24,225,000 | 24,375,000 | 324 | 1163 | 0.737619396 | |
| 17 | 24,300,000 | 24,450,000 | 325 | 644 | 0.881152407 | |
| 17 | 24,375,000 | 24,525,000 | 326 | 691 | 1.020052915 | ENSBTAG00000009722 |
| 17 | 24,450,000 | 24,600,000 | 327 | 628 | 1.027460385 | ENSBTAG00000009722 |
| 17 | 24,525,000 | 24,675,000 | 328 | 575 | 1.073043852 | |
| 17 | 24,600,000 | 24,750,000 | 329 | 756 | 1.208050847 | |
| 17 | 24,675,000 | 24,825,000 | 330 | 753 | 0.270950548 | |
| 17 | 24,750,000 | 24,900,000 | 331 | 820 | -0.503528115 | |
| 17 | 24,825,000 | 24,975,000 | 332 | 1003 | 0.178179783 | |
| 17 | 24,900,000 | 25,050,000 | 333 | 851 | -0.244703622 | ENSBTAG00000035012 |
| 17 | 24,975,000 | 25,125,000 | 334 | 529 | -0.903430875 | PRAME,ENSBTAG00000035012,ENSBTAG00000040370 |
| 17 | 25,050,000 | 25,200,000 | 335 | 723 | -1.081904886 | PRAME,ENSBTAG00000040370 |
| 17 | 25,125,000 | 25,275,000 | 336 | 1313 | 0.251370461 | |
| 17 | 25,200,000 | 25,350,000 | 337 | 1408 | 0.496146983 | |
| 17 | 25,275,000 | 25,425,000 | 338 | 947 | 0.941722537 | |
| 17 | 25,350,000 | 25,500,000 | 339 | 687 | 0.804272202 | PCDH10 |
| 17 | 25,425,000 | 25,575,000 | 340 | 787 | 1.042910811 | PCDH10 |
| 17 | 25,500,000 | 25,650,000 | 341 | 864 | 0.28016074 | |
| 17 | 25,575,000 | 25,725,000 | 342 | 1170 | -1.381931112 | |
| 17 | 25,650,000 | 25,800,000 | 343 | 1305 | -1.343130533 | |
| 17 | 25,725,000 | 25,875,000 | 344 | 970 | 0.178313261 | |
| 17 | 25,800,000 | 25,950,000 | 345 | 680 | 1.035772391 | |
| 17 | 25,875,000 | 26,025,000 | 346 | 502 | -0.550847719 | |
| 17 | 25,950,000 | 26,100,000 | 347 | 820 | -0.801494856 | |
| 17 | 26,025,000 | 26,175,000 | 348 | 1385 | 0.038546367 | |
| 17 | 26,100,000 | 26,250,000 | 349 | 1470 | 0.192985465 | |
| 17 | 26,175,000 | 26,325,000 | 350 | 1239 | 0.779757952 | |
| 17 | 26,250,000 | 26,400,000 | 351 | 999 | 0.470814827 | |
| 17 | 26,325,000 | 26,475,000 | 352 | 1058 | -2.131769596 | |
| 17 | 26,400,000 | 26,550,000 | 353 | 1130 | -1.522613516 | |
| 17 | 26,475,000 | 26,625,000 | 354 | 1056 | 0.401353796 | |
| 17 | 26,550,000 | 26,700,000 | 355 | 1198 | -0.624321025 | |
| 17 | 26,625,000 | 26,775,000 | 356 | 1262 | -0.781499635 | |
| 17 | 26,700,000 | 26,850,000 | 357 | 1100 | 0.262576381 | |
| 17 | 26,775,000 | 26,925,000 | 358 | 991 | 0.282803677 | |
| 17 | 26,850,000 | 27,000,000 | 359 | 1226 | -0.679600929 | |
| 17 | 26,925,000 | 27,075,000 | 360 | 1359 | -1.119311562 | |
| 17 | 27,000,000 | 27,150,000 | 361 | 1310 | -1.110315033 | |
| 17 | 27,075,000 | 27,225,000 | 362 | 1055 | -0.795632149 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 17 | 27,150,000 | 27,300,000 | 363 | 937 | 0.368496397 | |
| 17 | 27,225,000 | 27,375,000 | 364 | 1013 | 0.621975297 | |
| 17 | 27,300,000 | 27,450,000 | 365 | 1310 | 0.646864878 | |
| 17 | 27,375,000 | 27,525,000 | 366 | 1777 | 0.712707079 | |
| 17 | 27,450,000 | 27,600,000 | 367 | 1590 | 0.950399199 | |
| 17 | 27,525,000 | 27,675,000 | 368 | 1045 | 1.284879956 | |
| 17 | 27,600,000 | 27,750,000 | 369 | 1028 | 0.293956264 | |
| 17 | 27,675,000 | 27,825,000 | 370 | 1265 | -1.604011472 | |
| 17 | 27,750,000 | 27,900,000 | 371 | 1191 | -3.03573981 | |
| 17 | 27,825,000 | 27,975,000 | 372 | 917 | -1.738211155 | |
| 17 | 27,900,000 | 28,050,000 | 373 | 911 | 0.498999894 | |
| 17 | 27,975,000 | 28,125,000 | 374 | 823 | 0.495478976 | |
| 17 | 28,050,000 | 28,200,000 | 375 | 535 | 0.156496726 | |
| 17 | 28,125,000 | 28,275,000 | 376 | 790 | -0.441369303 | |
| 17 | 28,200,000 | 28,350,000 | 377 | 1139 | -1.067029398 | |
| 17 | 28,275,000 | 28,425,000 | 378 | 1154 | -1.09986464 | |
| 17 | 28,350,000 | 28,500,000 | 379 | 1076 | -0.353825814 | |
| 17 | 28,425,000 | 28,575,000 | 380 | 860 | 0.02251998 | |
| 17 | 28,500,000 | 28,650,000 | 381 | 556 | -0.620127718 | |
| 17 | 28,575,000 | 28,725,000 | 382 | 524 | -3.481135586 | |
| 17 | 28,650,000 | 28,800,000 | 383 | 593 | -2.596116554 | |
| 17 | 28,725,000 | 28,875,000 | 384 | 494 | -0.531257527 | |
| 17 | 28,800,000 | 28,950,000 | 385 | 693 | -2.080927237 | |
| 17 | 28,875,000 | 29,025,000 | 386 | 1101 | -1.88227321 | |
| 17 | 28,950,000 | 29,100,000 | 387 | 908 | -1.090092514 | |
| 17 | 29,025,000 | 29,175,000 | 388 | 828 | 0.767749018 | C4orf33 |
| 17 | 29,100,000 | 29,250,000 | 389 | 971 | 1.216487137 | C4orf33,SCLT1 |
| 17 | 29,175,000 | 29,325,000 | 390 | 569 | 0.58450131 | SCLT1 |
| 17 | 29,250,000 | 29,400,000 | 391 | 335 | -1.834933761 | JADE1,SCLT1 |
| 17 | 29,325,000 | 29,475,000 | 392 | 319 | -2.346540194 | JADE1,SCLT1 |
| 17 | 29,400,000 | 29,550,000 | 393 | 376 | -1.8821928 | JADE1,ENSBTAG00000004743 |
| 17 | 29,475,000 | 29,625,000 | 394 | 539 | -1.002582255 | ENSBTAG00000004743 |
| 17 | 29,550,000 | 29,700,000 | 395 | 414 | -2.293577875 | |
| 17 | 29,625,000 | 29,775,000 | 396 | 243 | -4.419899254 | |
| 17 | 29,700,000 | 29,850,000 | 397 | 215 | -1.638605168 | COMMD6 |
| 17 | 29,775,000 | 29,925,000 | 398 | 237 | -0.220555149 | COMMD6,PGRMC2 |
| 17 | 29,850,000 | 30,000,000 | 399 | 269 | 0.248777887 | LARP1B,PGRMC2 |
| 17 | 29,925,000 | 30,075,000 | 400 | 272 | -0.441394756 | LARP1B |
| 17 | 30,000,000 | 30,150,000 | 401 | 262 | -1.33733229 | LARP1B,MFSD8,MGC165715 |
| 17 | 30,075,000 | 30,225,000 | 402 | 211 | -1.562058757 | MFSD8,MGC165715,PLK4 |
| 17 | 30,150,000 | 30,300,000 | 403 | 194 | -1.066091134 | HSPA4L,MFSD8,PLK4,SLC25A31 |
| 17 | 30,225,000 | 30,375,000 | 404 | 231 | 0.077655768 | HSPA4L,INTU,SLC25A31 |
| 17 | 30,300,000 | 30,450,000 | 405 | 402 | 0.552187288 | INTU,SLC25A31 |
| 17 | 30,375,000 | 30,525,000 | 406 | 540 | -0.830083394 | INTU |
| 17 | 30,450,000 | 30,600,000 | 407 | 492 | -1.584096449 | |
| 17 | 30,525,000 | 30,675,000 | 408 | 743 | 0.186314548 | ENSBTAG00000005435 |
| 17 | 30,600,000 | 30,750,000 | 409 | 826 | 0.629853852 | ENSBTAG00000005435 |
| 17 | 30,675,000 | 30,825,000 | 410 | 489 | 0.909504689 | |
| 17 | 30,750,000 | 30,900,000 | 411 | 347 | 0.846287335 | |
| 17 | 30,825,000 | 30,975,000 | 412 | 341 | 0.92667215 | |
| 17 | 30,900,000 | 31,050,000 | 413 | 623 | 0.702122404 | |
| 17 | 30,975,000 | 31,125,000 | 414 | 1105 | 0.222179405 | |
| 17 | 31,050,000 | 31,200,000 | 415 | 1163 | -0.269626715 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------|
| 17 | 31,125,000 | 31,275,000 | 416 | 912 | 0.014143124 | |
| 17 | 31,200,000 | 31,350,000 | 417 | 999 | 0.21865127 | |
| 17 | 31,275,000 | 31,425,000 | 418 | 1102 | 0.005031856 | |
| 17 | 31,350,000 | 31,500,000 | 419 | 1050 | 0.321155303 | |
| 17 | 31,425,000 | 31,575,000 | 420 | 990 | 0.167221666 | |
| 17 | 31,500,000 | 31,650,000 | 421 | 661 | -0.193439086 | |
| 17 | 31,575,000 | 31,725,000 | 422 | 501 | -1.147766221 | |
| 17 | 31,650,000 | 31,800,000 | 423 | 721 | 0.46791892 | |
| 17 | 31,725,000 | 31,875,000 | 424 | 641 | 0.379016848 | |
| 17 | 31,800,000 | 31,950,000 | 425 | 514 | -0.803107595 | |
| 17 | 31,875,000 | 32,025,000 | 426 | 882 | 0.016836682 | |
| 17 | 31,950,000 | 32,100,000 | 427 | 843 | 0.033428486 | |
| 17 | 32,025,000 | 32,175,000 | 428 | 583 | 0.267565942 | |
| 17 | 32,100,000 | 32,250,000 | 429 | 578 | -0.044636788 | |
| 17 | 32,175,000 | 32,325,000 | 430 | 485 | -0.263161117 | |
| 17 | 32,250,000 | 32,400,000 | 431 | 422 | 0.327225487 | |
| 17 | 32,325,000 | 32,475,000 | 432 | 370 | 0.552076027 | |
| 17 | 32,400,000 | 32,550,000 | 433 | 438 | -0.058150425 | |
| 17 | 32,475,000 | 32,625,000 | 434 | 585 | -0.803748771 | |
| 17 | 32,550,000 | 32,700,000 | 435 | 669 | -0.868260432 | |
| 17 | 32,625,000 | 32,775,000 | 436 | 693 | -0.404504541 | FAT4 |
| 17 | 32,700,000 | 32,850,000 | 437 | 889 | -0.181880695 | FAT4 |
| 17 | 32,775,000 | 32,925,000 | 438 | 1083 | 0.224613975 | FAT4 |
| 17 | 32,850,000 | 33,000,000 | 439 | 962 | 0.98724709 | FAT4 |
| 17 | 32,925,000 | 33,075,000 | 440 | 819 | 1.106669294 | |
| 17 | 33,000,000 | 33,150,000 | 441 | 788 | 0.590594494 | |
| 17 | 33,075,000 | 33,225,000 | 442 | 986 | -0.198803045 | |
| 17 | 33,150,000 | 33,300,000 | 443 | 1073 | -0.680501273 | |
| 17 | 33,225,000 | 33,375,000 | 444 | 1181 | -0.258353753 | |
| 17 | 33,300,000 | 33,450,000 | 445 | 1258 | -0.573129536 | |
| 17 | 33,375,000 | 33,525,000 | 446 | 1042 | -0.55168516 | ANKRD50 |
| 17 | 33,450,000 | 33,600,000 | 447 | 1091 | 1.063797874 | ANKRD50 |
| 17 | 33,525,000 | 33,675,000 | 448 | 1118 | 1.016478034 | ANKRD50 |
| 17 | 33,600,000 | 33,750,000 | 449 | 1185 | 0.995848906 | |
| 17 | 33,675,000 | 33,825,000 | 450 | 1212 | 0.604620305 | |
| 17 | 33,750,000 | 33,900,000 | 451 | 1305 | -0.987998484 | |
| 17 | 33,825,000 | 33,975,000 | 452 | 1240 | -0.305531031 | |
| 17 | 33,900,000 | 34,050,000 | 453 | 1136 | 0.470831856 | |
| 17 | 33,975,000 | 34,125,000 | 454 | 1063 | -0.167993837 | |
| 17 | 34,050,000 | 34,200,000 | 455 | 882 | -2.886288937 | |
| 17 | 34,125,000 | 34,275,000 | 456 | 844 | -3.662898267 | |
| 17 | 34,200,000 | 34,350,000 | 457 | 994 | -2.94008886 | |
| 17 | 34,275,000 | 34,425,000 | 458 | 1063 | -2.480562689 | |
| 17 | 34,350,000 | 34,500,000 | 459 | 842 | -1.587919589 | |
| 17 | 34,425,000 | 34,575,000 | 460 | 872 | -1.111896283 | |
| 17 | 34,500,000 | 34,650,000 | 461 | 770 | -0.477344981 | |
| 17 | 34,575,000 | 34,725,000 | 462 | 527 | -0.982009196 | |
| 17 | 34,650,000 | 34,800,000 | 463 | 630 | -0.808682845 | SPRY1 |
| 17 | 34,725,000 | 34,875,000 | 464 | 751 | -0.144340815 | SPRY1 |
| 17 | 34,800,000 | 34,950,000 | 465 | 639 | -0.245714473 | SPATA5 |
| 17 | 34,875,000 | 35,025,000 | 466 | 474 | -0.063384938 | SPATA5 |
| 17 | 34,950,000 | 35,100,000 | 467 | 395 | 0.511382378 | SPATA5 |
| 17 | 35,025,000 | 35,175,000 | 468 | 393 | 0.510531039 | NUDT6,SPATA5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 17 | 35,100,000 | 35,250,000 | 469 | 340 | -0.120799932 | FGF2,NUDT6,SPATA5 |
| 17 | 35,175,000 | 35,325,000 | 470 | 403 | -0.693492551 | FGF2,NUDT6 |
| 17 | 35,250,000 | 35,400,000 | 471 | 505 | -1.065431261 | BBS12,CETN4,FGF2 |
| 17 | 35,325,000 | 35,475,000 | 472 | 405 | -1.29351601 | BBS12,CETN4,IL21 |
| 17 | 35,400,000 | 35,550,000 | 473 | 265 | -2.348592738 | IL21 |
| 17 | 35,475,000 | 35,625,000 | 474 | 227 | -4.37323374 | IL2 |
| 17 | 35,550,000 | 35,700,000 | 475 | 242 | -0.934714416 | IL2 |
| 17 | 35,625,000 | 35,775,000 | 476 | 431 | 0.029523412 | ENSBTAG00000046302 |
| 17 | 35,700,000 | 35,850,000 | 477 | 345 | 0.425703644 | ENSBTAG00000046302 |
| 17 | 35,775,000 | 35,925,000 | 478 | 84 | -0.460734719 | ENSBTAG00000045738,ENSBTAG00000045938 |
| 17 | 35,850,000 | 36,000,000 | 479 | 649 | 0.569683679 | ENSBTAG00000045738,ENSBTAG00000045938 |
| 17 | 35,925,000 | 36,075,000 | 480 | 1019 | 0.692625389 | ADAD1,ENSBTAG00000035606 |
| 17 | 36,000,000 | 36,150,000 | 481 | 464 | 0.565858634 | ADAD1,ENSBTAG00000035606 |
| 17 | 36,075,000 | 36,225,000 | 482 | 157 | 0.117029896 | ADAD1 |
| 17 | 36,150,000 | 36,300,000 | 483 | 202 | 1.124756053 | |
| 17 | 36,225,000 | 36,375,000 | 484 | 350 | 0.733360891 | |
| 17 | 36,300,000 | 36,450,000 | 485 | 524 | 0.295464538 | |
| 17 | 36,375,000 | 36,525,000 | 486 | 786 | 0.072072655 | |
| 17 | 36,450,000 | 36,600,000 | 487 | 840 | -0.622777849 | TRPC3 |
| 17 | 36,525,000 | 36,675,000 | 488 | 976 | -0.764101583 | TRPC3 |
| 17 | 36,600,000 | 36,750,000 | 489 | 1425 | -0.380738716 | TRPC3 |
| 17 | 36,675,000 | 36,825,000 | 490 | 1219 | -0.793166342 | |
| 17 | 36,750,000 | 36,900,000 | 491 | 1001 | -0.872160077 | |
| 17 | 36,825,000 | 36,975,000 | 492 | 1488 | -0.602300429 | |
| 17 | 36,900,000 | 37,050,000 | 493 | 1527 | -1.133046767 | |
| 17 | 36,975,000 | 37,125,000 | 494 | 1521 | -0.411083448 | |
| 17 | 37,050,000 | 37,200,000 | 495 | 1474 | 0.408028935 | |
| 17 | 37,125,000 | 37,275,000 | 496 | 1074 | 0.31790715 | |
| 17 | 37,200,000 | 37,350,000 | 497 | 1007 | 0.53928866 | |
| 17 | 37,275,000 | 37,425,000 | 498 | 1225 | -0.755749414 | ENSBTAG00000046833 |
| 17 | 37,350,000 | 37,500,000 | 499 | 1163 | -0.400513395 | ENSBTAG00000046833 |
| 17 | 37,425,000 | 37,575,000 | 500 | 645 | -0.012228786 | |
| 17 | 37,500,000 | 37,650,000 | 501 | 695 | -0.89580074 | |
| 17 | 37,575,000 | 37,725,000 | 502 | 1039 | 0.209013095 | |
| 17 | 37,650,000 | 37,800,000 | 503 | 859 | 0.379485652 | |
| 17 | 37,725,000 | 37,875,000 | 504 | 551 | -0.501289586 | ENSBTAG00000047595 |
| 17 | 37,800,000 | 37,950,000 | 505 | 622 | 0.042596408 | ENSBTAG00000047595 |
| 17 | 37,875,000 | 38,025,000 | 506 | 784 | 0.53724447 | ENSBTAG00000047595 |
| 17 | 37,950,000 | 38,100,000 | 507 | 876 | 0.202672543 | ENSBTAG00000047595 |
| 17 | 38,025,000 | 38,175,000 | 508 | 851 | -2.239840165 | ENSBTAG00000047595 |
| 17 | 38,100,000 | 38,250,000 | 509 | 1066 | -2.208492683 | |
| 17 | 38,175,000 | 38,325,000 | 510 | 1187 | 0.131586632 | |
| 17 | 38,250,000 | 38,400,000 | 511 | 1180 | -2.741779744 | |
| 17 | 38,325,000 | 38,475,000 | 512 | 1056 | -4.295461269 | |
| 17 | 38,400,000 | 38,550,000 | 513 | 721 | -3.41860509 | |
| 17 | 38,475,000 | 38,625,000 | 514 | 1359 | 0.427012534 | |
| 17 | 38,550,000 | 38,700,000 | 515 | 1839 | -0.625529808 | |
| 17 | 38,625,000 | 38,775,000 | 516 | 1300 | -1.776406865 | |
| 17 | 38,700,000 | 38,850,000 | 517 | 967 | -1.718560011 | |
| 17 | 38,775,000 | 38,925,000 | 518 | 698 | -2.028857129 | |
| 17 | 38,850,000 | 39,000,000 | 519 | 673 | -1.476525775 | |
| 17 | 38,925,000 | 39,075,000 | 520 | 1075 | -0.494195643 | |
| 17 | 39,000,000 | 39,150,000 | 521 | 787 | 0.072082396 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 17 | 39,075,000 | 39,225,000 | 522 | 341 | 0.029327297 | |
| 17 | 39,150,000 | 39,300,000 | 523 | 345 | -0.260848431 | |
| 17 | 39,225,000 | 39,375,000 | 524 | 332 | -0.190907514 | |
| 17 | 39,300,000 | 39,450,000 | 525 | 345 | -0.914720133 | |
| 17 | 39,375,000 | 39,525,000 | 526 | 380 | -1.235363489 | |
| 17 | 39,450,000 | 39,600,000 | 527 | 583 | 0.507996652 | |
| 17 | 39,525,000 | 39,675,000 | 528 | 754 | 0.505654746 | |
| 17 | 39,600,000 | 39,750,000 | 529 | 824 | -1.077913986 | |
| 17 | 39,675,000 | 39,825,000 | 530 | 845 | -1.464078509 | |
| 17 | 39,750,000 | 39,900,000 | 531 | 815 | -1.579285049 | ULBP3 |
| 17 | 39,825,000 | 39,975,000 | 532 | 1156 | 0.445279157 | ULBP3 |
| 17 | 39,900,000 | 40,050,000 | 533 | 1231 | 0.66589728 | |
| 17 | 39,975,000 | 40,125,000 | 534 | 1066 | 0.346233011 | |
| 17 | 40,050,000 | 40,200,000 | 535 | 1110 | 0.6771574 | |
| 17 | 40,125,000 | 40,275,000 | 536 | 1172 | -0.381980377 | |
| 17 | 40,200,000 | 40,350,000 | 537 | 1117 | -0.505340225 | |
| 17 | 40,275,000 | 40,425,000 | 538 | 1083 | 0.339661584 | |
| 17 | 40,350,000 | 40,500,000 | 539 | 970 | 0.779222728 | RAPGEF2 |
| 17 | 40,425,000 | 40,575,000 | 540 | 671 | 0.476439847 | RAPGEF2 |
| 17 | 40,500,000 | 40,650,000 | 541 | 613 | 0.287291581 | RAPGEF2 |
| 17 | 40,575,000 | 40,725,000 | 542 | 921 | 0.140398514 | RAPGEF2 |
| 17 | 40,650,000 | 40,800,000 | 543 | 1132 | 0.224710966 | |
| 17 | 40,725,000 | 40,875,000 | 544 | 1004 | 0.961391054 | TNIP3 |
| 17 | 40,800,000 | 40,950,000 | 545 | 1066 | 0.959523488 | C17H4orf45,TNIP3 |
| 17 | 40,875,000 | 41,025,000 | 546 | 1045 | 0.990130841 | C17H4orf45 |
| 17 | 40,950,000 | 41,100,000 | 547 | 626 | 0.562502246 | C17H4orf45, FNIP2 |
| 17 | 41,025,000 | 41,175,000 | 548 | 356 | -1.092681645 | C17H4orf45, FNIP2 |
| 17 | 41,100,000 | 41,250,000 | 549 | 552 | -2.017619912 | FNIP2,PPID |
| 17 | 41,175,000 | 41,325,000 | 550 | 600 | -1.98606388 | C17H4orf46,ETFDH,PPID,RXFP1 |
| 17 | 41,250,000 | 41,400,000 | 551 | 868 | -0.007905041 | C17H4orf46,ETFDH,PPID,RXFP1 |
| 17 | 41,325,000 | 41,475,000 | 552 | 1408 | -0.082707587 | RXFP1 |
| 17 | 41,400,000 | 41,550,000 | 553 | 1573 | -0.802951543 | RXFP1 |
| 17 | 41,475,000 | 41,625,000 | 554 | 1201 | -0.683774778 | |
| 17 | 41,550,000 | 41,700,000 | 555 | 862 | 0.241752203 | TMEM144 |
| 17 | 41,625,000 | 41,775,000 | 556 | 959 | 1.052505153 | FAM198B, TMEM144 |
| 17 | 41,700,000 | 41,850,000 | 557 | 876 | 1.129284943 | FAM198B, TMEM144 |
| 17 | 41,775,000 | 41,925,000 | 558 | 592 | 0.810245825 | FAM198B |
| 17 | 41,850,000 | 42,000,000 | 559 | 480 | 0.554498336 | |
| 17 | 41,925,000 | 42,075,000 | 560 | 588 | 0.784100616 | |
| 17 | 42,000,000 | 42,150,000 | 561 | 904 | 1.245222753 | |
| 17 | 42,075,000 | 42,225,000 | 562 | 1186 | 0.269075634 | |
| 17 | 42,150,000 | 42,300,000 | 563 | 1180 | -0.453900755 | |
| 17 | 42,225,000 | 42,375,000 | 564 | 1008 | 0.809868666 | |
| 17 | 42,300,000 | 42,450,000 | 565 | 683 | 0.898417502 | |
| 17 | 42,375,000 | 42,525,000 | 566 | 592 | 0.073401067 | |
| 17 | 42,450,000 | 42,600,000 | 567 | 726 | 0.164905806 | |
| 17 | 42,525,000 | 42,675,000 | 568 | 726 | 0.788707699 | |
| 17 | 42,600,000 | 42,750,000 | 569 | 559 | 0.897246202 | |
| 17 | 42,675,000 | 42,825,000 | 570 | 442 | 0.553422809 | GRIA2 |
| 17 | 42,750,000 | 42,900,000 | 571 | 438 | -1.348815958 | GRIA2 |
| 17 | 42,825,000 | 42,975,000 | 572 | 741 | -1.241796436 | GRIA2 |
| 17 | 42,900,000 | 43,050,000 | 573 | 867 | -0.653248246 | GLRB,GRIA2 |
| 17 | 42,975,000 | 43,125,000 | 574 | 952 | -0.009155092 | GLRB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 43,050,000 | 43,200,000 | 575 | 872 | 0.491537577 | GLRB |
| 17 | 43,125,000 | 43,275,000 | 576 | 490 | 0.891666795 | GLRB |
| 17 | 43,200,000 | 43,350,000 | 577 | 480 | 0.789729474 | GLRB,PDGFC |
| 17 | 43,275,000 | 43,425,000 | 578 | 827 | 0.688464106 | PDGFC |
| 17 | 43,350,000 | 43,500,000 | 579 | 810 | 0.641137323 | PDGFC |
| 17 | 43,425,000 | 43,575,000 | 580 | 417 | 0.441980863 | PDGFC |
| 17 | 43,500,000 | 43,650,000 | 581 | 317 | -0.099473717 | |
| 17 | 43,575,000 | 43,725,000 | 582 | 338 | -0.112028124 | |
| 17 | 43,650,000 | 43,800,000 | 583 | 645 | 0.83202878 | |
| 17 | 43,725,000 | 43,875,000 | 584 | 1023 | 0.988080238 | |
| 17 | 43,800,000 | 43,950,000 | 585 | 831 | 0.97682057 | |
| 17 | 43,875,000 | 44,025,000 | 586 | 400 | 0.673574617 | |
| 17 | 43,950,000 | 44,100,000 | 587 | 325 | -0.095995213 | |
| 17 | 44,025,000 | 44,175,000 | 588 | 347 | -0.85537748 | |
| 17 | 44,100,000 | 44,250,000 | 589 | 398 | -2.664110799 | |
| 17 | 44,175,000 | 44,325,000 | 590 | 751 | -2.224002984 | |
| 17 | 44,250,000 | 44,400,000 | 591 | 655 | -2.348873332 | CTSO,TDO2 |
| 17 | 44,325,000 | 44,475,000 | 592 | 296 | -5.191012792 | ASIC5,CTSO,TDO2 |
| 17 | 44,400,000 | 44,550,000 | 593 | 499 | -4.613866925 | ASIC5,GUCY1B1 |
| 17 | 44,475,000 | 44,625,000 | 594 | 604 | -2.586888458 | ASIC5,GUCY1A1,GUCY1B1 |
| 17 | 44,550,000 | 44,700,000 | 595 | 460 | -0.584029068 | GUCY1A1,GUCY1B1 |
| 17 | 44,625,000 | 44,775,000 | 596 | 740 | 0.935632352 | GUCY1A1 |
| 17 | 44,700,000 | 44,850,000 | 597 | 970 | 0.782887622 | |
| 17 | 44,775,000 | 44,925,000 | 598 | 768 | -0.157540723 | |
| 17 | 44,850,000 | 45,000,000 | 599 | 548 | -0.094706748 | ZNF605 |
| 17 | 44,925,000 | 45,075,000 | 600 | 381 | -0.570236196 | ZNF605,ENSBTAG00000013001 |
| 17 | 45,000,000 | 45,150,000 | 601 | 511 | -4.057102141 | ZNF140,ZNF891,ENSBTAG00000013001 |
| 17 | 45,075,000 | 45,225,000 | 602 | 755 | -2.625445591 | ZNF10,ZNF140,ZNF268,ZNF891 |
| 17 | 45,150,000 | 45,300,000 | 603 | 851 | 0.258423292 | ANHX,MBD3L1,ZNF10,ZNF268,ZNF891 |
| 17 | 45,225,000 | 45,375,000 | 604 | 690 | 0.33897032 | ANHX,MBD3L1 |
| 17 | 45,300,000 | 45,450,000 | 605 | 520 | 0.4025824 | CHFR,GOLGA3 |
| 17 | 45,375,000 | 45,525,000 | 606 | 476 | 0.673336511 | ANKLE2,CHFR,GOLGA3,PGAM5,POLE,PXMP2 |
| 17 | 45,450,000 | 45,600,000 | 607 | 457 | 0.699060286 | ANKLE2,GOLGA3,P2RX2,PGAM5,POLE,PXMP2 |
| 17 | 45,525,000 | 45,675,000 | 608 | 435 | 0.444551067 | FBRSL1,P2RX2,POLE |
| 17 | 45,600,000 | 45,750,000 | 609 | 417 | 0.603908801 | FBRSL1 |
| 17 | 45,675,000 | 45,825,000 | 610 | 709 | 1.038817114 | FBRSL1 |
| 17 | 45,750,000 | 45,900,000 | 611 | 793 | 0.762617452 | WBSCR17 |
| 17 | 45,825,000 | 45,975,000 | 612 | 532 | -1.025278014 | WBSCR17 |
| 17 | 45,900,000 | 46,050,000 | 613 | 346 | -1.944686458 | DDX51,EP400,NOC4L,WBSCR17,ENSBTAG00000022084 |
| 17 | 45,975,000 | 46,125,000 | 614 | 275 | -0.772766775 | DDX51,EP400,NOC4L,ENSBTAG00000022084 |
| 17 | 46,050,000 | 46,200,000 | 615 | 511 | -0.672158011 | EP400,PUS1,ULK1 |
| 17 | 46,125,000 | 46,275,000 | 616 | 528 | -0.383124148 | EP400,MMP17,PUS1,SFSWAP,ULK1 |
| 17 | 46,200,000 | 46,350,000 | 617 | 349 | -0.113587765 | MMP17,SFSWAP |
| 17 | 46,275,000 | 46,425,000 | 618 | 441 | 0.375690525 | SFSWAP |
| 17 | 46,350,000 | 46,500,000 | 619 | 483 | 0.718899111 | SFSWAP |
| 17 | 46,425,000 | 46,575,000 | 620 | 535 | 0.794983523 | |
| 17 | 46,500,000 | 46,650,000 | 621 | 590 | 0.614689897 | |
| 17 | 46,575,000 | 46,725,000 | 622 | 491 | -0.271879965 | |
| 17 | 46,650,000 | 46,800,000 | 623 | 530 | -0.936015068 | |
| 17 | 46,725,000 | 46,875,000 | 624 | 648 | -3.728400129 | |
| 17 | 46,800,000 | 46,950,000 | 625 | 447 | -6.388795061 | |
| 17 | 46,875,000 | 47,025,000 | 626 | 224 | -6.64260174 | |
| 17 | 46,950,000 | 47,100,000 | 627 | 490 | -3.05977419 | GPR133 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 17 | 47,025,000 | 47,175,000 | 628 | 884 | -2.370155252 | GPR133 |
| 17 | 47,100,000 | 47,250,000 | 629 | 821 | -1.597745973 | GPR133 |
| 17 | 47,175,000 | 47,325,000 | 630 | 670 | 0.548593659 | GPR133,STX2 |
| 17 | 47,250,000 | 47,400,000 | 631 | 537 | 1.202950888 | STX2 |
| 17 | 47,325,000 | 47,475,000 | 632 | 401 | 0.599600753 | STX2 |
| 17 | 47,400,000 | 47,550,000 | 633 | 701 | 0.549593518 | |
| 17 | 47,475,000 | 47,625,000 | 634 | 1023 | -0.926697316 | |
| 17 | 47,550,000 | 47,700,000 | 635 | 794 | -1.813382556 | RIMBP2 |
| 17 | 47,625,000 | 47,775,000 | 636 | 621 | -0.977210157 | PIWIL1,RIMBP2 |
| 17 | 47,700,000 | 47,850,000 | 637 | 609 | -1.952837943 | PIWIL1,RIMBP2 |
| 17 | 47,775,000 | 47,925,000 | 638 | 536 | -0.707128599 | |
| 17 | 47,850,000 | 48,000,000 | 639 | 641 | 0.267107261 | FZD10 |
| 17 | 47,925,000 | 48,075,000 | 640 | 971 | -0.270293716 | FZD10 |
| 17 | 48,000,000 | 48,150,000 | 641 | 1335 | -1.046091005 | |
| 17 | 48,075,000 | 48,225,000 | 642 | 850 | -1.270150291 | |
| 17 | 48,150,000 | 48,300,000 | 643 | 350 | -0.319994373 | |
| 17 | 48,225,000 | 48,375,000 | 644 | 443 | -0.128795048 | |
| 17 | 48,300,000 | 48,450,000 | 645 | 781 | 1.113795286 | |
| 17 | 48,375,000 | 48,525,000 | 646 | 977 | -0.217007481 | |
| 17 | 48,450,000 | 48,600,000 | 647 | 944 | -3.127870843 | |
| 17 | 48,525,000 | 48,675,000 | 648 | 864 | -2.071136434 | |
| 17 | 48,600,000 | 48,750,000 | 649 | 1115 | -0.236615897 | |
| 17 | 48,675,000 | 48,825,000 | 650 | 1489 | 0.047238729 | |
| 17 | 48,750,000 | 48,900,000 | 651 | 1074 | 0.50804694 | |
| 17 | 48,825,000 | 48,975,000 | 652 | 672 | 0.252535651 | |
| 17 | 48,900,000 | 49,050,000 | 653 | 611 | 0.183843892 | |
| 17 | 48,975,000 | 49,125,000 | 654 | 659 | 0.628390201 | TMEM132D |
| 17 | 49,050,000 | 49,200,000 | 655 | 799 | 0.771996737 | GLT1D1,TMEM132D |
| 17 | 49,125,000 | 49,275,000 | 656 | 811 | 0.422526529 | GLT1D1,ENSBTAG00000046676 |
| 17 | 49,200,000 | 49,350,000 | 657 | 558 | -0.722275127 | GLT1D1,SLC15A4,ENSBTAG00000046676 |
| 17 | 49,275,000 | 49,425,000 | 658 | 374 | -1.652838692 | GLT1D1,SLC15A4 |
| 17 | 49,350,000 | 49,500,000 | 659 | 659 | 0.188120691 | SLC15A4,TMEM132C |
| 17 | 49,425,000 | 49,575,000 | 660 | 834 | 0.362222884 | TMEM132C |
| 17 | 49,500,000 | 49,650,000 | 661 | 775 | 0.102062375 | TMEM132C |
| 17 | 49,575,000 | 49,725,000 | 662 | 639 | 0.612933988 | TMEM132C |
| 17 | 49,650,000 | 49,800,000 | 663 | 690 | 0.928651296 | TMEM132C |
| 17 | 49,725,000 | 49,875,000 | 664 | 673 | 0.553022623 | TMEM132C |
| 17 | 49,800,000 | 49,950,000 | 665 | 723 | 0.500022853 | |
| 17 | 49,875,000 | 50,025,000 | 666 | 1190 | -0.832228423 | |
| 17 | 49,950,000 | 50,100,000 | 667 | 1022 | -1.50046019 | |
| 17 | 50,025,000 | 50,175,000 | 668 | 697 | 1.196081343 | |
| 17 | 50,100,000 | 50,250,000 | 669 | 700 | 1.059255624 | |
| 17 | 50,175,000 | 50,325,000 | 670 | 688 | 0.654875224 | |
| 17 | 50,250,000 | 50,400,000 | 671 | 642 | 0.5675879 | |
| 17 | 50,325,000 | 50,475,000 | 672 | 659 | 0.650408459 | |
| 17 | 50,400,000 | 50,550,000 | 673 | 825 | 0.649013909 | |
| 17 | 50,475,000 | 50,625,000 | 674 | 650 | 0.65183075 | |
| 17 | 50,550,000 | 50,700,000 | 675 | 459 | 0.930454536 | |
| 17 | 50,625,000 | 50,775,000 | 676 | 442 | 0.680542525 | ENSBTAG00000046439 |
| 17 | 50,700,000 | 50,850,000 | 677 | 284 | -3.746000807 | ENSBTAG00000046439 |
| 17 | 50,775,000 | 50,925,000 | 678 | 175 | -3.868721245 | |
| 17 | 50,850,000 | 51,000,000 | 679 | 307 | 0.141711053 | ENSBTAG00000046657 |
| 17 | 50,925,000 | 51,075,000 | 680 | 692 | 0.450400224 | ENSBTAG00000046657 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 17 | 51,000,000 | 51,150,000 | 681 | 689 | 0.556918121 | |
| 17 | 51,075,000 | 51,225,000 | 682 | 359 | 0.836094052 | ENSBTAG00000047597 |
| 17 | 51,150,000 | 51,300,000 | 683 | 413 | 1.372762051 | ENSBTAG00000033558,ENSBTAG00000047597 |
| 17 | 51,225,000 | 51,375,000 | 684 | 455 | 1.404216762 | HSFY2,PRAME,ENSBTAG00000033558 |
| 17 | 51,300,000 | 51,450,000 | 685 | 289 | -0.698794684 | HSFY2,PRAME |
| 17 | 51,375,000 | 51,525,000 | 686 | 388 | -1.686106843 | PRAME |
| 17 | 51,450,000 | 51,600,000 | 687 | 325 | -2.052467668 | ENSBTAG00000039769 |
| 17 | 51,525,000 | 51,675,000 | 688 | 279 | -0.804522755 | ENSBTAG00000034761,ENSBTAG00000039769 |
| 17 | 51,600,000 | 51,750,000 | 689 | 701 | 0.095618252 | ENSBTAG00000020532,ENSBTAG00000034761 |
| 17 | 51,675,000 | 51,825,000 | 690 | 1008 | -0.018943636 | ENSBTAG00000020532,ENSBTAG00000046986 |
| 17 | 51,750,000 | 51,900,000 | 691 | 594 | 0.306821568 | ENSBTAG00000033620,ENSBTAG00000046986 |
| 17 | 51,825,000 | 51,975,000 | 692 | 416 | 0.762272326 | ENSBTAG00000033620 |
| 17 | 51,900,000 | 52,050,000 | 693 | 465 | 0.509319172 | |
| 17 | 51,975,000 | 52,125,000 | 694 | 569 | -0.49588609 | |
| 17 | 52,050,000 | 52,200,000 | 695 | 848 | -0.019626872 | |
| 17 | 52,125,000 | 52,275,000 | 696 | 637 | 0.33572129 | |
| 17 | 52,200,000 | 52,350,000 | 697 | 620 | -0.254511083 | |
| 17 | 52,275,000 | 52,425,000 | 698 | 838 | 0.198248589 | |
| 17 | 52,350,000 | 52,500,000 | 699 | 914 | 0.617095504 | |
| 17 | 52,425,000 | 52,575,000 | 700 | 963 | 0.850615579 | TMEM132B |
| 17 | 52,500,000 | 52,650,000 | 701 | 944 | 0.539487556 | TMEM132B |
| 17 | 52,575,000 | 52,725,000 | 702 | 925 | 0.208968291 | TMEM132B |
| 17 | 52,650,000 | 52,800,000 | 703 | 1287 | 0.319108815 | TMEM132B |
| 17 | 52,725,000 | 52,875,000 | 704 | 1133 | 0.275137974 | TMEM132B |
| 17 | 52,800,000 | 52,950,000 | 705 | 550 | 0.334070107 | |
| 17 | 52,875,000 | 53,025,000 | 706 | 609 | -0.779412421 | AACS |
| 17 | 52,950,000 | 53,100,000 | 707 | 824 | -0.718976736 | AACS,BRI3BP,DHX37 |
| 17 | 53,025,000 | 53,175,000 | 708 | 620 | -0.613178199 | AACS,BRI3BP,DHX37,UBC |
| 17 | 53,100,000 | 53,250,000 | 709 | 526 | -0.211812628 | DHX37,SCARB1,UBC |
| 17 | 53,175,000 | 53,325,000 | 710 | 513 | 0.880086884 | SCARB1 |
| 17 | 53,250,000 | 53,400,000 | 711 | 461 | 0.062311479 | SCARB1 |
| 17 | 53,325,000 | 53,475,000 | 712 | 585 | -0.344661465 | |
| 17 | 53,400,000 | 53,550,000 | 713 | 476 | -0.177864835 | |
| 17 | 53,475,000 | 53,625,000 | 714 | 289 | 0.401232425 | NCOR2 |
| 17 | 53,550,000 | 53,700,000 | 715 | 260 | 0.129006598 | NCOR2 |
| 17 | 53,625,000 | 53,775,000 | 716 | 383 | -1.199841808 | FAM101A,NCOR2 |
| 17 | 53,700,000 | 53,850,000 | 717 | 478 | -1.553810199 | FAM101A,NCOR2 |
| 17 | 53,775,000 | 53,925,000 | 718 | 877 | 0.355670079 | |
| 17 | 53,850,000 | 54,000,000 | 719 | 1172 | 0.928293581 | ZNF664 |
| 17 | 53,925,000 | 54,075,000 | 720 | 872 | 0.541120921 | CCDC92,DNAH10,ZNF664 |
| 17 | 54,000,000 | 54,150,000 | 721 | 794 | -0.256350808 | CCDC92,DNAH10 |
| 17 | 54,075,000 | 54,225,000 | 722 | 881 | -1.224703191 | ATP6V0A2,DNAH10 |
| 17 | 54,150,000 | 54,300,000 | 723 | 790 | -1.420562949 | ATP6V0A2,DNAH10,EIF2B1,GTF2H3,TCTN2 |
| 17 | 54,225,000 | 54,375,000 | 724 | 784 | 0.078801448 | ATP6V0A2,DDX55,EIF2B1,GTF2H3,RILPL1,TCTN2,TMED2 |
| 17 | 54,300,000 | 54,450,000 | 725 | 738 | -0.396211495 | DDX55,EIF2B1,RILPL1,RILPL2,SNRNP35,TMED2 |
| 17 | 54,375,000 | 54,525,000 | 726 | 476 | -1.434611265 | RILPL1,RILPL2,SBNO1,SETD8,SNRNP35 |
| 17 | 54,450,000 | 54,600,000 | 727 | 297 | -0.129979048 | C12orf65,CDK2AP1,MPHOSPH9,RILPL2,SBNO1,SETD8 |
| 17 | 54,525,000 | 54,675,000 | 728 | 290 | -0.164637409 | C12orf65,CDK2AP1,MPHOSPH9,SBNO1 |
| 17 | 54,600,000 | 54,750,000 | 729 | 373 | -0.675910524 | MPHOSPH9,PITPNM2 |
| 17 | 54,675,000 | 54,825,000 | 730 | 380 | -1.607332781 | ARL6IP4,OGFOD2,PITPNM2 |
| 17 | 54,750,000 | 54,900,000 | 731 | 508 | -0.50164783 | ABCB9,ARL6IP4,OGFOD2,PITPNM2 |
| 17 | 54,825,000 | 54,975,000 | 732 | 564 | 0.157687722 | ABCB9,CCDC62,HIP1R |
| 17 | 54,900,000 | 55,050,000 | 733 | 529 | 0.115391441 | CCDC62,GPR81,HIP1R,ENSBTAG00000032433 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 17 | 54,975,000 | 55,125,000 | 734 | 619 | -0.030123774 | CCDC62,GPR81,KNTC1,ENSBTAG00000032433,ENSBTAG0000047904 |
| 17 | 55,050,000 | 55,200,000 | 735 | 399 | -0.67659722 | KNTC1,RSRC2,ZCCHC8,ENSBTAG00000047904 |
| 17 | 55,125,000 | 55,275,000 | 736 | 312 | -0.782935527 | CLIP1,KNTC1,RSRC2,ZCCHC8 |
| 17 | 55,200,000 | 55,350,000 | 737 | 580 | -2.353799455 | CLIP1,ZCCHC8 |
| 17 | 55,275,000 | 55,425,000 | 738 | 503 | -2.730806088 | B3GNT4,CLIP1,DIABLO,LRRC43,VPS33A |
| 17 | 55,350,000 | 55,500,000 | 739 | 288 | -0.578396829 | B3GNT4,CLIP1,DIABLO,LRRC43,MLXIP,VPS33A |
| 17 | 55,425,000 | 55,575,000 | 740 | 455 | 0.031201921 | BCL7A,LRRC43,MLXIP |
| 17 | 55,500,000 | 55,650,000 | 741 | 701 | 0.210427789 | BCL7A,MLXIP,WDR66 |
| 17 | 55,575,000 | 55,725,000 | 742 | 669 | 0.215408456 | HPD,PSMD9,WDR66 |
| 17 | 55,650,000 | 55,800,000 | 743 | 386 | 0.211484256 | HPD,PSMD9,RHOF,SETD1B,TMEM120B,WDR66 |
| 17 | 55,725,000 | 55,875,000 | 744 | 221 | -0.653064889 | MORN3,ORAI1,RHOF,SETD1B,TMEM120B |
| 17 | 55,800,000 | 55,950,000 | 745 | 391 | -0.446570524 | KDM2B,MORN3,ORAI1,TMEM120B |
| 17 | 55,875,000 | 56,025,000 | 746 | 546 | 0.595243114 | KDM2B,RNF34 |
| 17 | 55,950,000 | 56,100,000 | 747 | 440 | 0.371831828 | ANAPC5,KDM2B,RNF34 |
| 17 | 56,025,000 | 56,175,000 | 748 | 395 | -0.005524043 | ANAPC5,CAMKK2,P2RX4,RNF34 |
| 17 | 56,100,000 | 56,250,000 | 749 | 361 | 0.429213247 | ANAPC5,CAMKK2,P2RX4,P2RX7 |
| 17 | 56,175,000 | 56,325,000 | 750 | 332 | 0.355868675 | IFT81,P2RX4,P2RX7 |
| 17 | 56,250,000 | 56,400,000 | 751 | 280 | 0.259481968 | IFT81,P2RX7 |
| 17 | 56,325,000 | 56,475,000 | 752 | 283 | 0.862551052 | ATP2A2,IFT81 |
| 17 | 56,400,000 | 56,550,000 | 753 | 320 | 1.093079512 | ANAPC7,ATP2A2,IFT81 |
| 17 | 56,475,000 | 56,625,000 | 754 | 297 | 0.898006978 | ANAPC7,ARPC3,ATP2A2,FAM216A,GPN3,VPS29 |
| 17 | 56,550,000 | 56,700,000 | 755 | 313 | 0.634475681 | ANAPC7,ARPC3,FAM216A,GPN3,PPTC7,RAD9B,VPS29 |
| 17 | 56,625,000 | 56,775,000 | 756 | 408 | 0.366288011 | HVCN1,PPTC7,RAD9B,TCTN1 |
| 17 | 56,700,000 | 56,850,000 | 757 | 492 | -0.34597938 | HVCN1,PPP1CC,PPTC7,TCTN1 |
| 17 | 56,775,000 | 56,925,000 | 758 | 674 | -3.798769661 | CCDC63,PPP1CC |
| 17 | 56,850,000 | 57,000,000 | 759 | 772 | -3.343382714 | CCDC63,MYL2 |
| 17 | 56,925,000 | 57,075,000 | 760 | 716 | -0.346259047 | CCDC63,CUX2,MYL2 |
| 17 | 57,000,000 | 57,150,000 | 761 | 737 | 0.490147674 | CUX2 |
| 17 | 57,075,000 | 57,225,000 | 762 | 597 | 0.557550189 | CUX2 |
| 17 | 57,150,000 | 57,300,000 | 763 | 552 | 0.640529793 | CUX2 |
| 17 | 57,225,000 | 57,375,000 | 764 | 646 | 0.487154153 | CUX2,FAM109A |
| 17 | 57,300,000 | 57,450,000 | 765 | 416 | -0.119656112 | ATXN2,CUX2,FAM109A,SH2B3 |
| 17 | 57,375,000 | 57,525,000 | 766 | 140 | -0.179890017 | ATXN2,SH2B3 |
| 17 | 57,450,000 | 57,600,000 | 767 | 228 | 0.590594494 | ATXN2,BRAP |
| 17 | 57,525,000 | 57,675,000 | 768 | 442 | 0.489543075 | ACAD10,ATXN2,BRAP |
| 17 | 57,600,000 | 57,750,000 | 769 | 396 | 0.327764823 | ACAD10 |
| 17 | 57,675,000 | 57,825,000 | 770 | 544 | 0.62861157 | ACAD10,CIT |
| 17 | 57,750,000 | 57,900,000 | 771 | 816 | 0.873878313 | CIT |
| 17 | 57,825,000 | 57,975,000 | 772 | 683 | 1.101592716 | CIT |
| 17 | 57,900,000 | 58,050,000 | 773 | 843 | 1.051020484 | CIT,PRKAB1 |
| 17 | 57,975,000 | 58,125,000 | 774 | 1033 | 1.03644712 | CCDC60,CIT,PRKAB1 |
| 17 | 58,050,000 | 58,200,000 | 775 | 939 | 1.232492925 | CCDC60 |
| 17 | 58,125,000 | 58,275,000 | 776 | 1053 | 0.991693553 | CCDC60 |
| 17 | 58,200,000 | 58,350,000 | 777 | 834 | 0.664162868 | |
| 17 | 58,275,000 | 58,425,000 | 778 | 710 | -1.186164296 | HSPB8 |
| 17 | 58,350,000 | 58,500,000 | 779 | 809 | -0.676816121 | HSPB8,SRRM4 |
| 17 | 58,425,000 | 58,575,000 | 780 | 848 | 0.862425137 | SRRM4 |
| 17 | 58,500,000 | 58,650,000 | 781 | 978 | 1.173741472 | |
| 17 | 58,575,000 | 58,725,000 | 782 | 899 | 1.17051756 | |
| 17 | 58,650,000 | 58,800,000 | 783 | 825 | 1.134162641 | |
| 17 | 58,725,000 | 58,875,000 | 784 | 671 | 0.089100187 | |
| 17 | 58,800,000 | 58,950,000 | 785 | 633 | -0.534887743 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 17 | 58,875,000 | 59,025,000 | 786 | 984 | 0.618363031 | |
| 17 | 58,950,000 | 59,100,000 | 787 | 913 | 1.000177673 | SUDS3 |
| 17 | 59,025,000 | 59,175,000 | 788 | 479 | 0.778149414 | SUDS3 |
| 17 | 59,100,000 | 59,250,000 | 789 | 269 | 0.764466335 | SUDS3,TAOK3 |
| 17 | 59,175,000 | 59,325,000 | 790 | 184 | 1.031392649 | TAOK3 |
| 17 | 59,250,000 | 59,400,000 | 791 | 323 | 0.530943786 | PEBP1,TAOK3,VSIG10 |
| 17 | 59,325,000 | 59,475,000 | 792 | 311 | 0.285705954 | PEBP1,RFC5,VSIG10,WSB2 |
| 17 | 59,400,000 | 59,550,000 | 793 | 298 | -0.384809184 | KSR2,RFC5,VSIG10,WSB2 |
| 17 | 59,475,000 | 59,625,000 | 794 | 554 | 0.019091604 | KSR2 |
| 17 | 59,550,000 | 59,700,000 | 795 | 583 | 0.261961888 | KSR2 |
| 17 | 59,625,000 | 59,775,000 | 796 | 542 | 0.807955292 | KSR2 |
| 17 | 59,700,000 | 59,850,000 | 797 | 683 | 1.277216984 | KSR2 |
| 17 | 59,775,000 | 59,925,000 | 798 | 665 | 0.576945477 | KSR2 |
| 17 | 59,850,000 | 60,000,000 | 799 | 953 | -0.280166068 | KSR2 |
| 17 | 59,925,000 | 60,075,000 | 800 | 1233 | -0.19233989 | NOS1 |
| 17 | 60,000,000 | 60,150,000 | 801 | 1022 | 0.014107731 | COX7B,NOS1,ENSBTAG00000046747 |
| 17 | 60,075,000 | 60,225,000 | 802 | 669 | 0.565109254 | COX7B,FBXO21,NOS1,ENSBTAG00000046747 |
| 17 | 60,150,000 | 60,300,000 | 803 | 392 | 0.231330598 | FBXO21,TESC |
| 17 | 60,225,000 | 60,375,000 | 804 | 551 | 0.752367964 | FBXO21,FBXW8,TESC |
| 17 | 60,300,000 | 60,450,000 | 805 | 699 | 0.79817993 | FBXW8,HRK,RNFT2,TESC |
| 17 | 60,375,000 | 60,525,000 | 806 | 434 | 0.736756444 | C12orf49,FBXW8,HRK,RNFT2 |
| 17 | 60,450,000 | 60,600,000 | 807 | 308 | 0.227648813 | C12orf49,RNFT2 |
| 17 | 60,525,000 | 60,675,000 | 808 | 383 | 0.017575023 | |
| 17 | 60,600,000 | 60,750,000 | 809 | 474 | 0.597081346 | |
| 17 | 60,675,000 | 60,825,000 | 810 | 475 | 0.911326278 | |
| 17 | 60,750,000 | 60,900,000 | 811 | 319 | 0.082262723 | |
| 17 | 60,825,000 | 60,975,000 | 812 | 256 | -2.705749419 | MED13L |
| 17 | 60,900,000 | 61,050,000 | 813 | 301 | -0.771540471 | MED13L |
| 17 | 60,975,000 | 61,125,000 | 814 | 293 | 0.438776072 | MED13L |
| 17 | 61,050,000 | 61,200,000 | 815 | 259 | 0.359548318 | MED13L |
| 17 | 61,125,000 | 61,275,000 | 816 | 352 | 0.65803374 | MED13L |
| 17 | 61,200,000 | 61,350,000 | 817 | 469 | 0.930408509 | |
| 17 | 61,275,000 | 61,425,000 | 818 | 493 | 1.241066563 | |
| 17 | 61,350,000 | 61,500,000 | 819 | 407 | 0.202963409 | |
| 17 | 61,425,000 | 61,575,000 | 820 | 674 | -0.290730237 | |
| 17 | 61,500,000 | 61,650,000 | 821 | 914 | 0.339857324 | |
| 17 | 61,575,000 | 61,725,000 | 822 | 792 | -0.81690625 | |
| 17 | 61,650,000 | 61,800,000 | 823 | 766 | -0.30884562 | |
| 17 | 61,725,000 | 61,875,000 | 824 | 878 | 0.878294856 | |
| 17 | 61,800,000 | 61,950,000 | 825 | 646 | 0.341755548 | |
| 17 | 61,875,000 | 62,025,000 | 826 | 338 | 0.251062436 | |
| 17 | 61,950,000 | 62,100,000 | 827 | 523 | 0.457450884 | |
| 17 | 62,025,000 | 62,175,000 | 828 | 797 | 0.029863479 | |
| 17 | 62,100,000 | 62,250,000 | 829 | 836 | -0.54811233 | |
| 17 | 62,175,000 | 62,325,000 | 830 | 602 | -0.083790135 | |
| 17 | 62,250,000 | 62,400,000 | 831 | 411 | 0.744184669 | TBX3 |
| 17 | 62,325,000 | 62,475,000 | 832 | 465 | 0.157485873 | TBX3 |
| 17 | 62,400,000 | 62,550,000 | 833 | 535 | 0.120311905 | TBX5 |
| 17 | 62,475,000 | 62,625,000 | 834 | 501 | -0.081597588 | TBX5 |
| 17 | 62,550,000 | 62,700,000 | 835 | 542 | 0.257096299 | TBX5 |
| 17 | 62,625,000 | 62,775,000 | 836 | 756 | 0.876138152 | |
| 17 | 62,700,000 | 62,850,000 | 837 | 715 | 0.427427594 | |
| 17 | 62,775,000 | 62,925,000 | 838 | 591 | -0.145664563 | RBM19 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 62,850,000 | 63,000,000 | 839 | 875 | -0.018122527 | RBM19 |
| 17 | 62,925,000 | 63,075,000 | 840 | 1288 | -0.119790346 | RBM19 |
| 17 | 63,000,000 | 63,150,000 | 841 | 1113 | -0.118375613 | RBM19 |
| 17 | 63,075,000 | 63,225,000 | 842 | 729 | 0.157320941 | |
| 17 | 63,150,000 | 63,300,000 | 843 | 718 | 0.224277149 | LHX5,SDSL |
| 17 | 63,225,000 | 63,375,000 | 844 | 687 | -0.399366828 | DTX1,LHX5,PLBD2,SDS,SDSL |
| 17 | 63,300,000 | 63,450,000 | 845 | 734 | -0.390516486 | CCDC42B,DDX54,DTX1,PLBD2,RASAL1,SDS |
| 17 | 63,375,000 | 63,525,000 | 846 | 801 | 0.54606372 | CCDC42B,DDX54,DTX1,IQCD,RASAL1,RITA1 |
| 17 | 63,450,000 | 63,600,000 | 847 | 816 | 0.742903144 | DDX54,IQCD,RITA1,SLC8B1,TPCN1 |
| 17 | 63,525,000 | 63,675,000 | 848 | 1139 | 0.711451862 | OAS1Y,OAS1Z,OAS2,SLC8B1,TPCN1 |
| 17 | 63,600,000 | 63,750,000 | 849 | 1318 | 0.858091332 | OAS1Y,OAS1Z,OAS2,RPH3A |
| 17 | 63,675,000 | 63,825,000 | 850 | 1081 | 1.100491087 | OAS1Z,RPH3A |
| 17 | 63,750,000 | 63,900,000 | 851 | 717 | 0.989430049 | |
| 17 | 63,825,000 | 63,975,000 | 852 | 613 | -1.808185343 | |
| 17 | 63,900,000 | 64,050,000 | 853 | 675 | -1.548320175 | PTPN11 |
| 17 | 63,975,000 | 64,125,000 | 854 | 404 | 0.235188649 | PTPN11,RPL6 |
| 17 | 64,050,000 | 64,200,000 | 855 | 291 | 0.813491958 | PTPN11,RPL6 |
| 17 | 64,125,000 | 64,275,000 | 856 | 279 | 0.996281552 | ENSBTAG00000010958,ENSBTAG00000046730 |
| 17 | 64,200,000 | 64,350,000 | 857 | 220 | 1.021955937 | TRAFD1,ENSBTAG00000008762,ENSBTAG00000010958,ENSBTAG00000046730 |
| 17 | 64,275,000 | 64,425,000 | 858 | 258 | 0.204199948 | ERP29,NAA25,TRAFD1,ENSBTAG00000008762,ENSBTAG00000046730 |
| 17 | 64,350,000 | 64,500,000 | 859 | 292 | -0.541831291 | ADAM1B,ERP29,NAA25,TMEM116 |
| 17 | 64,425,000 | 64,575,000 | 860 | 396 | -1.064151533 | ADAM1B,ALDH2,ERP29,MAPKAPK5,TMEM116 |
| 17 | 64,500,000 | 64,650,000 | 861 | 465 | -1.784386456 | ALDH2,CCDC64,MAPKAPK5 |
| 17 | 64,575,000 | 64,725,000 | 862 | 315 | -1.459697651 | ALDH2,CCDC64,RAB35 |
| 17 | 64,650,000 | 64,800,000 | 863 | 243 | -1.05116813 | CCDC64,GCN1L1,RAB35 |
| 17 | 64,725,000 | 64,875,000 | 864 | 302 | -1.041730571 | GCN1L1,PXN,RAB35,RPLP0 |
| 17 | 64,800,000 | 64,950,000 | 865 | 422 | -1.386655014 | GCN1L1,MSI1,PLA2G1B,PXN,RPLP0,SIRT4,ENSBTAG00000047084 |
| 17 | 64,875,000 | 65,025,000 | 866 | 381 | -1.705666165 | COX6A1,GATC,MSI1,PLA2G1B,SFRS9,SIRT4,TRIAP1,ENSBTAG00000047084 |
| 17 | 64,950,000 | 65,100,000 | 867 | 182 | -1.939530909 | COQ5,COX6A1,DYNLL1,GATC,RNF10,SFRS9,TRIAP1 |
| 17 | 65,025,000 | 65,175,000 | 868 | 224 | -0.05007749 | CABP1,COQ5,DYNLL1,POP5,RNF10 |
| 17 | 65,100,000 | 65,250,000 | 869 | 407 | 0.392026618 | ACADS,CABP1,MLEC,POP5,RNF10,UNC119B |
| 17 | 65,175,000 | 65,325,000 | 870 | 430 | 0.049485115 | ACADS,MLEC,SPPL3,UNC119B |
| 17 | 65,250,000 | 65,400,000 | 871 | 394 | -0.124409226 | SPPL3 |
| 17 | 65,325,000 | 65,475,000 | 872 | 543 | -0.884569602 | C12orf43,HNF1A,OASL,ENSBTAG00000046887 |
| 17 | 65,400,000 | 65,550,000 | 873 | 555 | -0.272237507 | ANKRD13A,C12orf43,HNF1A,OASL,ENSBTAG00000032047,ENSBTAG00000046887 |
| 17 | 65,475,000 | 65,625,000 | 874 | 486 | 0.737724313 | ANKRD13A,GIT2,TCHP,ENSBTAG00000032047 |
| 17 | 65,550,000 | 65,700,000 | 875 | 533 | 0.117928086 | ANKRD13A,GIT2,GLTP,TCHP,TRPV4 |
| 17 | 65,625,000 | 65,775,000 | 876 | 560 | -0.105338011 | FAM222A,GLTP,TRPV4 |
| 17 | 65,700,000 | 65,850,000 | 877 | 713 | -0.758046289 | FAM222A |
| 17 | 65,775,000 | 65,925,000 | 878 | 884 | -1.886807439 | MMAB,MVK,UBE3B |
| 17 | 65,850,000 | 66,000,000 | 879 | 912 | -1.96294614 | KCTD10,MMAB,MVK,MYO1H,UBE3B |
| 17 | 65,925,000 | 66,075,000 | 880 | 957 | -0.632256031 | FOXN4,KCTD10,MYO1H,UBE3B |
| 17 | 66,000,000 | 66,150,000 | 881 | 779 | -0.161232475 | ACACB,FOXN4,MYO1H |
| 17 | 66,075,000 | 66,225,000 | 882 | 631 | 0.084855399 | ACACB,FOXN4,UNG |
| 17 | 66,150,000 | 66,300,000 | 883 | 710 | 0.509165211 | ACACB,ALKBH2,SVOP,UNG,USP30 |
| 17 | 66,225,000 | 66,375,000 | 884 | 874 | 0.901934026 | ALKBH2,DAO,SVOP,UNG,USP30 |
| 17 | 66,300,000 | 66,450,000 | 885 | 668 | 0.854891436 | DAO,SSH1,SVOP |
| 17 | 66,375,000 | 66,525,000 | 886 | 347 | 0.890141677 | CORO1C,SSH1,ENSBTAG00000023431 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 66,450,000 | 66,600,000 | 887 | 513 | 0.386335084 | CORO1C,SELPLG,TMEM119,ENSBTAG00000023431 |
| 17 | 66,525,000 | 66,675,000 | 888 | 856 | -0.350408698 | CORO1C,FICD,SART3,SELPLG,TMEM119 |
| 17 | 66,600,000 | 66,750,000 | 889 | 1174 | -1.429781087 | FICD,ISCU,SART3 |
| 17 | 66,675,000 | 66,825,000 | 890 | 1116 | -0.618778187 | ISCU |
| 17 | 66,750,000 | 66,900,000 | 891 | 1136 | -0.313350537 | CMLKR1,WSCD2 |
| 17 | 66,825,000 | 66,975,000 | 892 | 1209 | -0.756431517 | CMLKR1,WSCD2 |
| 17 | 66,900,000 | 67,050,000 | 893 | 1225 | -0.463295348 | WSCD2 |
| 17 | 66,975,000 | 67,125,000 | 894 | 1078 | -0.117995258 | |
| 17 | 67,050,000 | 67,200,000 | 895 | 542 | 0.236065489 | |
| 17 | 67,125,000 | 67,275,000 | 896 | 651 | -0.840045076 | PIWIL3 |
| 17 | 67,200,000 | 67,350,000 | 897 | 1061 | 0.058963746 | PIWIL3,SGSM1,TMEM211 |
| 17 | 67,275,000 | 67,425,000 | 898 | 878 | 0.415571503 | KIAA1671,SGSM1,TMEM211 |
| 17 | 67,350,000 | 67,500,000 | 899 | 832 | 0.309746596 | KIAA1671 |
| 17 | 67,425,000 | 67,575,000 | 900 | 923 | -0.456145985 | CRYBB2,CRYBB3,KIAA1671 |
| 17 | 67,500,000 | 67,650,000 | 901 | 866 | -0.517503889 | CRYBB2,CRYBB3,KIAA1671 |
| 17 | 67,575,000 | 67,725,000 | 902 | 663 | 0.282996767 | ADRBK2 |
| 17 | 67,650,000 | 67,800,000 | 903 | 630 | 0.934704502 | ADRBK2,MYO18B |
| 17 | 67,725,000 | 67,875,000 | 904 | 781 | 0.713940881 | ADRBK2,MYO18B |
| 17 | 67,800,000 | 67,950,000 | 905 | 600 | 0.040909486 | MYO18B |
| 17 | 67,875,000 | 68,025,000 | 906 | 399 | -1.255805405 | MYO18B |
| 17 | 67,950,000 | 68,100,000 | 907 | 632 | -1.151693301 | MYO18B |
| 17 | 68,025,000 | 68,175,000 | 908 | 954 | -0.32350862 | |
| 17 | 68,100,000 | 68,250,000 | 909 | 977 | 0.372694141 | SEZ6L |
| 17 | 68,175,000 | 68,325,000 | 910 | 868 | 0.560775293 | SEZ6L |
| 17 | 68,250,000 | 68,400,000 | 911 | 907 | 0.509322654 | ASPHD2,HPS4,SEZ6L,SRRD |
| 17 | 68,325,000 | 68,475,000 | 912 | 836 | 0.390830505 | ASPHD2,HPS4,SRRD,TFIP11,TPST2 |
| 17 | 68,400,000 | 68,550,000 | 913 | 657 | -0.99625677 | CRYBA4,CRYBB1,SRRD,TFIP11,TPST2 |
| 17 | 68,475,000 | 68,625,000 | 914 | 889 | -1.958742803 | CRYBA4,CRYBB1,TPST2,ENSBTAG00000031468 |
| 17 | 68,550,000 | 68,700,000 | 915 | 1091 | -0.354202311 | ENSBTAG00000031468 |
| 17 | 68,625,000 | 68,775,000 | 916 | 871 | -0.302215687 | |
| 17 | 68,700,000 | 68,850,000 | 917 | 455 | -0.849931142 | |
| 17 | 68,775,000 | 68,925,000 | 918 | 399 | 0.200511712 | |
| 17 | 68,850,000 | 69,000,000 | 919 | 560 | 0.449704552 | |
| 17 | 68,925,000 | 69,075,000 | 920 | 690 | 0.86197739 | |
| 17 | 69,000,000 | 69,150,000 | 921 | 721 | 0.431841918 | |
| 17 | 69,075,000 | 69,225,000 | 922 | 629 | -0.223870153 | |
| 17 | 69,150,000 | 69,300,000 | 923 | 588 | -0.066909874 | |
| 17 | 69,225,000 | 69,375,000 | 924 | 500 | -0.315208657 | |
| 17 | 69,300,000 | 69,450,000 | 925 | 363 | 0.231223608 | MN1 |
| 17 | 69,375,000 | 69,525,000 | 926 | 303 | 0.438453826 | MN1 |
| 17 | 69,450,000 | 69,600,000 | 927 | 185 | -0.031400734 | MN1,PITPNB |
| 17 | 69,525,000 | 69,675,000 | 928 | 54 | -3.785382991 | PITPNB,TTC28 |
| 17 | 69,600,000 | 69,750,000 | 929 | 145 | -1.015804707 | TTC28 |
| 17 | 69,675,000 | 69,825,000 | 930 | 240 | 0.301664062 | TTC28 |
| 17 | 69,750,000 | 69,900,000 | 931 | 367 | -1.400882103 | TTC28 |
| 17 | 69,825,000 | 69,975,000 | 932 | 402 | -1.652659976 | TTC28 |
| 17 | 69,900,000 | 70,050,000 | 933 | 287 | -1.156250256 | TTC28 |
| 17 | 69,975,000 | 70,125,000 | 934 | 227 | -1.904815571 | |
| 17 | 70,050,000 | 70,200,000 | 935 | 253 | 0.521517667 | |
| 17 | 70,125,000 | 70,275,000 | 936 | 240 | 1.299420208 | CHEK2 |
| 17 | 70,200,000 | 70,350,000 | 937 | 586 | 1.006351335 | CCDC117,CHEK2,HSCB,XBP1 |
| 17 | 70,275,000 | 70,425,000 | 938 | 888 | 0.786227984 | CCDC117,CHEK2,HSCB,XBP1 |
| 17 | 70,350,000 | 70,500,000 | 939 | 673 | 0.567346168 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 70,425,000 | 70,575,000 | 940 | 462 | 0.550560823 | C17H22orf31,KREMEN1,ZNRF3 |
| 17 | 70,500,000 | 70,650,000 | 941 | 377 | -0.935045323 | C17H22orf31,EMID1,KREMEN1,ZNRF3 |
| 17 | 70,575,000 | 70,725,000 | 942 | 335 | -1.137324918 | EMID1,EWSR1,GAS2L1,KREMEN1,RASL10A,RHBDD3 |
| 17 | 70,650,000 | 70,800,000 | 943 | 338 | 0.135323929 | AP1B1,EMID1,EWSR1,GAS2L1,RASL10A,RHBDD3 |
| 17 | 70,725,000 | 70,875,000 | 944 | 586 | -0.137023339 | AP1B1,NEFH,NIPSNAP1,RASL10A,THOC5 |
| 17 | 70,800,000 | 70,950,000 | 945 | 684 | 0.073331889 | NEFH,NF2,NIPSNAP1,THOC5 |
| 17 | 70,875,000 | 71,025,000 | 946 | 501 | 0.561540361 | CABP7,NF2,NIPSNAP1,ZMAT5 |
| 17 | 70,950,000 | 71,100,000 | 947 | 425 | 0.637987106 | ASCC2,CABP7,NF2,UQCR10,ZMAT5 |
| 17 | 71,025,000 | 71,175,000 | 948 | 588 | 0.115511421 | ASCC2,MTMR3,UQCR10,ZMAT5 |
| 17 | 71,100,000 | 71,250,000 | 949 | 622 | 0.153477551 | MTMR3 |
| 17 | 71,175,000 | 71,325,000 | 950 | 627 | 0.598932419 | HORMAD2,MTMR3 |
| 17 | 71,250,000 | 71,400,000 | 951 | 637 | 0.309879478 | HORMAD2,MTMR3 |
| 17 | 71,325,000 | 71,475,000 | 952 | 453 | -0.104817813 | GATSL3,HORMAD2,LIF,OSM,TBC1D10A |
| 17 | 71,400,000 | 71,550,000 | 953 | 360 | -0.09770109 | CCDC157,GATSL3,LIF,OSM,RNF215,SF3A1,TBC1D10A |
| 17 | 71,475,000 | 71,625,000 | 954 | 474 | -0.367870701 | CCDC157,MTP18,RNF215,SEC14L2,SEC14L3,SEC14L4,SF3A1,ENSBTAG00000037993 |
| 17 | 71,550,000 | 71,700,000 | 955 | 663 | 0.63892978 | GAL3ST1,MTP18,PES1,SEC14L2,SEC14L3,SEC14L4,ENSBTAG00000037993 |
| 17 | 71,625,000 | 71,775,000 | 956 | 637 | 0.770339664 | C5orf52,DUSP18,GAL3ST1,OSBP2,PES1,SLC35E4,TCN2 |
| 17 | 71,700,000 | 71,850,000 | 957 | 1047 | -0.457218673 | C5orf52,DUSP18,OSBP2,PES1,SLC35E4,TCN2 |
| 17 | 71,775,000 | 71,925,000 | 958 | 1353 | -0.356561491 | MORC2,OSBP2 |
| 17 | 71,850,000 | 72,000,000 | 959 | 717 | 0.5488159 | MORC2,OSBP2 |
| 17 | 71,925,000 | 72,075,000 | 960 | 406 | 0.278285007 | MORC2,SELM,SMTN |
| 17 | 72,000,000 | 72,150,000 | 961 | 397 | -0.108358965 | INPP5J,LIMK2,PLA2G3,RNF185,SELM,SMTN |
| 17 | 72,075,000 | 72,225,000 | 962 | 554 | -1.355072646 | INPP5J,LIMK2,PIK3IP1,PLA2G3,RNF185 |
| 17 | 72,150,000 | 72,300,000 | 963 | 718 | -0.787340888 | DRG1,EIF4ENIF1,LIMK2,PATZ1,PIK3IP1 |
| 17 | 72,225,000 | 72,375,000 | 964 | 825 | 0.819557318 | DRG1,EIF4ENIF1,PATZ1,SFI1 |
| 17 | 72,300,000 | 72,450,000 | 965 | 1036 | 0.983474558 | EIF4ENIF1,PISD,SFI1 |
| 17 | 72,375,000 | 72,525,000 | 966 | 772 | 0.546104006 | DEPDC5,PISD,PRR14L,SFI1 |
| 17 | 72,450,000 | 72,600,000 | 967 | 782 | -0.146144347 | DEPDC5,PISD,PRR14L |
| 17 | 72,525,000 | 72,675,000 | 968 | 1053 | -0.948794938 | DEPDC5,YWHAH |
| 17 | 72,600,000 | 72,750,000 | 969 | 1190 | -1.948163409 | SGLT1,SLC5A4,YWHAH |
| 17 | 72,675,000 | 72,825,000 | 970 | 1243 | -0.924313148 | SGLT1,SLC5A4,ENSBTAG00000046584,ENSBTAG00000048030 |
| 17 | 72,750,000 | 72,900,000 | 971 | 1170 | -0.1695693 | IGLL1,SLC5A4,ENSBTAG00000039237,ENSBTAG00000046584,ENSBTAG00000047529,ENSBTAG00000047986,ENSBTAG00000048030 |
| 17 | 72,825,000 | 72,975,000 | 972 | 1257 | -0.072329486 | IGLL1,ENSBTAG00000039237,ENSBTAG00000047529,ENSBTAG00000047986 |
| 17 | 72,900,000 | 73,050,000 | 973 | 1344 | -0.138232323 | IGLL1,ZNF280A,ZNF280B,ENSBTAG00000033890 |
| 17 | 72,975,000 | 73,125,000 | 974 | 1559 | -0.692708244 | IGLL1,ZNF280A,ZNF280B,ENSBTAG00000033890,ENSBTAG00000047121 |
| 17 | 73,050,000 | 73,200,000 | 975 | 1257 | -1.039961029 | IGLL1,ZNF70,ENSBTAG00000047121 |
| 17 | 73,125,000 | 73,275,000 | 976 | 683 | -1.610730083 | C22orf15,CHCHD10,DERL3,IGLL1,MIF,MMP11,SMARCB1,VPREB3,ZNF70,ENSBTAG00000018647,ENSBTAG00000047121 |
| 17 | 73,200,000 | 73,350,000 | 977 | 527 | -0.735811929 | C22orf15,CABIN1,CHCHD10,DDT,DERL3,GSTT1,GSTT3,MIF,MMP11,SMARCB1,VPREB3,ENSBTAG00000000170,ENSBTAG00000018647 |
| 17 | 73,275,000 | 73,425,000 | 978 | 459 | -0.043533077 | CABIN1,DDT,GSTT1,GSTT3,SUSD2,ENSBTAG00000000170 |
| 17 | 73,350,000 | 73,500,000 | 979 | 661 | -0.376279269 | C17H22orf13,CABIN1,GGT5,SNRPD3,SUSD2,ENSBTAG00000046900 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 17 | 73,425,000 | 73,575,000 | 980 | 1018 | -0.212056184 | C17H22orf13,GGT5,SNRPD3,UPB1,ENSBTAG00000046900 |
| 17 | 73,500,000 | 73,650,000 | 981 | 913 | 0.24566852 | SPECC1L,UPB1,ENSBTAG00000016944 |
| 17 | 73,575,000 | 73,725,000 | 982 | 676 | 0.68882129 | BCR,SPECC1L,ENSBTAG00000016944 |
| 17 | 73,650,000 | 73,800,000 | 983 | 798 | 0.348695049 | BCR,RAB36,RTDR1,SPECC1L |
| 17 | 73,725,000 | 73,875,000 | 984 | 638 | -1.019038711 | BCR,GNAZ,RAB36,RTDR1,ENSBTAG00000023007 |
| 17 | 73,800,000 | 73,950,000 | 985 | 754 | -0.960784086 | GNAZ,RTDR1,VPREB,ENSBTAG00000023007 |
| 17 | 73,875,000 | 74,025,000 | 986 | 845 | -0.133075857 | MAPK1,PPM1F,VPREB,ENSBTAG00000023007,ENSBTAG0000047805 |
| 17 | 73,950,000 | 74,100,000 | 987 | 546 | 0.213587354 | DGCR6L,MAPK1,PPIL2,PPM1F,YPEL1,ENSBTAG00000022019,ENSBTAG00000047805 |
| 17 | 74,025,000 | 74,175,000 | 988 | 454 | -0.866843436 | CCDC116,DGCR6L,MAPK1,PPIL2,SDF2L1,UBE2L3,YDJC,YPEL1,ENSBTAG00000022019,ENSBTAG00000047538 |
| 17 | 74,100,000 | 74,250,000 | 989 | 412 | -0.087054578 | CCDC116,HIC2,PI4KA,SDF2L1,SERPIND1,TMEM191B,UBE2L3,YDJC,ENSBTAG00000047538 |
| 17 | 74,175,000 | 74,325,000 | 990 | 452 | -0.055673948 | AIFM3,CRKL,HIC2,LZTR1,PI4KA,SERPIND1,SNAP29,TMEM191B |
| 17 | 74,250,000 | 74,400,000 | 991 | 485 | 0.397164856 | AIFM3,CRKL,LZTR1,MZT2,P2RX6,PI4KA,SLC7A4,SMPD4,SNAP29,THAP7,TUBA3E,ENSBTAG00000038258 |
| 17 | 74,325,000 | 74,475,000 | 992 | 432 | 0.64172128 | LZTR1,MED15,MZT2,P2RX6,PRODH,SLC7A4,SMPD4,THAP7,TUBA3E,ENSBTAG00000031018,ENSBTAG00000038258,ENSBTAG00000046165 |
| 17 | 74,400,000 | 74,550,000 | 993 | 415 | -0.050952641 | KLHL22,MED15,PRODH,SCARF2,SMPD4,ENSBTAG00000031018,ENSBTAG00000046165 |
| 17 | 74,475,000 | 74,625,000 | 994 | 392 | 0.054887116 | DGCR14,DGCR2,GSC2,KLHL22,MED15,SCARF2,TSSK1B,TSSK2,ZNF74 |
| 17 | 74,550,000 | 74,700,000 | 995 | 407 | -2.289061935 | DGCR14,DGCR2,GSC2,HIRA,SLC25A1,TSSK1B,TSSK2,ZNF74 |
| 17 | 74,625,000 | 74,775,000 | 996 | 550 | -4.025630423 | C22orf39,CDC45L,CLDN5,HIRA,MRPL40,SLC25A1,UFD1L |
| 17 | 74,700,000 | 74,850,000 | 997 | 498 | -3.635945858 | C22orf39,CDC45L,CLDN5,GP1BB,MRPL40,SEPT5,UFD1L |
| 17 | 74,775,000 | 74,925,000 | 998 | 325 | -2.325314707 | GNB1L,GP1BB,SEPT5,TXNRD2,ENSBTAG00000047896 |
| 17 | 74,850,000 | 75,000,000 | 999 | 274 | -0.496423523 | ARVCF,COMT,DGCR8,GNB1L,TANGO2,TXNRD2,ENSBTAG00000047896 |
| 17 | 74,925,000 | 75,075,000 | 1000 | 208 | 0.20105397 | ARVCF,COMT,DGCR8,RANBP1,TANGO2,TRMT2A,ZDHHC8,ENSBTAG00000046005,ENSBTAG00000047626 |
| 17 | 75,000,000 | 75,150,000 | 1001 | 233 | -0.020362582 | DGCR8,RANBP1,RTN4R,TRMT2A,ZDHHC8,ENSBTAG00000046005,ENSBTAG00000046322,ENSBTAG00000047626 |
| 17 | 75,075,000 | 75,158,596 | 1002 | 163 | -0.164880105 | RTN4R,ENSBTAG00000046322 |
| 18 | 0 | 150,000 | 1 | 501 | -0.421973892 | |
| 18 | 75,000 | 225,000 | 2 | 495 | -0.640996679 | |
| 18 | 150,000 | 300,000 | 3 | 282 | -0.183705528 | |
| 18 | 225,000 | 375,000 | 4 | 221 | 0.447321011 | |
| 18 | 300,000 | 450,000 | 5 | 411 | 1.008749974 | |
| 18 | 375,000 | 525,000 | 6 | 416 | 1.059727389 | |
| 18 | 450,000 | 600,000 | 7 | 336 | -1.029254992 | |
| 18 | 525,000 | 675,000 | 8 | 560 | -1.06348564 | |
| 18 | 600,000 | 750,000 | 9 | 353 | -0.116176048 | |
| 18 | 675,000 | 825,000 | 10 | 233 | -2.006675933 | |
| 18 | 750,000 | 900,000 | 11 | 937 | -0.710493337 | |
| 18 | 825,000 | 975,000 | 12 | 1242 | -0.50423079 | |
| 18 | 900,000 | 1,050,000 | 13 | 1188 | -0.446319152 | UQCRFS1 |
| 18 | 975,000 | 1,125,000 | 14 | 1134 | 0.062658259 | UQCRFS1 |
| 18 | 1,050,000 | 1,200,000 | 15 | 868 | 0.083788737 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 18 | 1,125,000 | 1,275,000 | 16 | 763 | -0.1525821 | |
| 18 | 1,200,000 | 1,350,000 | 17 | 684 | -0.558436343 | VSTM2B |
| 18 | 1,275,000 | 1,425,000 | 18 | 1111 | 0.130795639 | VSTM2B |
| 18 | 1,350,000 | 1,500,000 | 19 | 967 | 0.452681276 | VAC14 |
| 18 | 1,425,000 | 1,575,000 | 20 | 421 | -0.683764633 | IL34,MTSS1L,VAC14 |
| 18 | 1,500,000 | 1,650,000 | 21 | 461 | -1.11054816 | IL34,MTSS1L,SF3B3,VAC14 |
| 18 | 1,575,000 | 1,725,000 | 22 | 782 | -0.428827279 | COG4,FUK,IL34,SF3B3 |
| 18 | 1,650,000 | 1,800,000 | 23 | 1160 | 0.163282888 | COG4,DDX19A,FUK,SF3B3,SIAT4B,ENSBTAG00000020714 |
| 18 | 1,725,000 | 1,875,000 | 24 | 1208 | 0.766027229 | AARS,DDX19A,MRCL,SIAT4B,ENSBTAG00000020714 |
| 18 | 1,800,000 | 1,950,000 | 25 | 810 | 0.559838825 | AARS,MRCL,PDPR,ENSBTAG00000020714,ENSBTAG00000047937 |
| 18 | 1,875,000 | 2,025,000 | 26 | 574 | 0.136121095 | GLG1,MRCL,PDPR,ENSBTAG00000047937 |
| 18 | 1,950,000 | 2,100,000 | 27 | 683 | 0.442397417 | GLG1,PDPR,ENSBTAG00000004526 |
| 18 | 2,025,000 | 2,175,000 | 28 | 630 | -0.7140539 | GLG1,MLKL,RFWD3,ENSBTAG00000004526 |
| 18 | 2,100,000 | 2,250,000 | 29 | 789 | -1.892664614 | FA2H,MLKL,RFWD3,ENSBTAG00000004526 |
| 18 | 2,175,000 | 2,325,000 | 30 | 878 | -0.603295627 | FA2H,MLKL,WDR59 |
| 18 | 2,250,000 | 2,400,000 | 31 | 573 | -0.10424195 | WDR59,ZNRF1 |
| 18 | 2,325,000 | 2,475,000 | 32 | 509 | 0.076725053 | WDR59,ZNRF1 |
| 18 | 2,400,000 | 2,550,000 | 33 | 585 | 1.037022804 | LDHD,ZFP1,ZNRF1 |
| 18 | 2,475,000 | 2,625,000 | 34 | 361 | 1.080801919 | BCAR1,CTRB1,LDHD,ZFP1,ZNRF1,ENSBTAG00000011995,ENSBTAG000000039914 |
| 18 | 2,550,000 | 2,700,000 | 35 | 404 | 1.112768385 | BCAR1,CFDP1,CTRB1,ENSBTAG00000011995,ENSBTAG000000039914 |
| 18 | 2,625,000 | 2,775,000 | 36 | 597 | 0.981966132 | BCAR1,BCNT,CFDP1 |
| 18 | 2,700,000 | 2,850,000 | 37 | 749 | 0.432539967 | BCNT,CFDP1,P97BCNT2,TMEM170A |
| 18 | 2,775,000 | 2,925,000 | 38 | 822 | -0.175614413 | BCNT,GABARAPL2,P97BCNT2,TMEM170A,TMEM231,ENSBTAG00000040000 |
| 18 | 2,850,000 | 3,000,000 | 39 | 760 | 0.043680676 | ADAT1,EEF1A1,GABARAPL2,KARS,TERF2IP,TMEM170A,TMEM231,ENSBTAG00000040000 |
| 18 | 2,925,000 | 3,075,000 | 40 | 724 | -0.141369214 | ADAT1,EEF1A1,KARS,TERF2IP |
| 18 | 3,000,000 | 3,150,000 | 41 | 867 | -0.689320451 | |
| 18 | 3,075,000 | 3,225,000 | 42 | 927 | -1.512829354 | |
| 18 | 3,150,000 | 3,300,000 | 43 | 786 | -1.267838155 | |
| 18 | 3,225,000 | 3,375,000 | 44 | 869 | 0.241883114 | |
| 18 | 3,300,000 | 3,450,000 | 45 | 1172 | 0.595252066 | |
| 18 | 3,375,000 | 3,525,000 | 46 | 1205 | 0.347885461 | CNTNAP4 |
| 18 | 3,450,000 | 3,600,000 | 47 | 1113 | 0.249413953 | CNTNAP4 |
| 18 | 3,525,000 | 3,675,000 | 48 | 1207 | 0.093008101 | CNTNAP4 |
| 18 | 3,600,000 | 3,750,000 | 49 | 1312 | 0.402994465 | CNTNAP4 |
| 18 | 3,675,000 | 3,825,000 | 50 | 1321 | 0.51453861 | CNTNAP4 |
| 18 | 3,750,000 | 3,900,000 | 51 | 1357 | 0.464231069 | |
| 18 | 3,825,000 | 3,975,000 | 52 | 1119 | -0.139480204 | |
| 18 | 3,900,000 | 4,050,000 | 53 | 674 | -1.306312652 | |
| 18 | 3,975,000 | 4,125,000 | 54 | 910 | 0.428846501 | |
| 18 | 4,050,000 | 4,200,000 | 55 | 1303 | 0.631111023 | |
| 18 | 4,125,000 | 4,275,000 | 56 | 1221 | 0.287467132 | |
| 18 | 4,200,000 | 4,350,000 | 57 | 987 | -0.11216569 | |
| 18 | 4,275,000 | 4,425,000 | 58 | 710 | -0.310392316 | ENSBTAG00000012131 |
| 18 | 4,350,000 | 4,500,000 | 59 | 576 | 0.151833273 | MON1B,SYCE1L,ENSBTAG00000012131 |
| 18 | 4,425,000 | 4,575,000 | 60 | 869 | 0.830545464 | ADAMTS18,MON1B,SYCE1L |
| 18 | 4,500,000 | 4,650,000 | 61 | 903 | 0.947831198 | ADAMTS18 |
| 18 | 4,575,000 | 4,725,000 | 62 | 792 | 0.585399903 | ADAMTS18 |
| 18 | 4,650,000 | 4,800,000 | 63 | 705 | 0.259984657 | ADAMTS18 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---------------------------------------|
| 18 | 4,725,000 | 4,875,000 | 64 | 577 | 0.459815435 | |
| 18 | 4,800,000 | 4,950,000 | 65 | 739 | 0.708253688 | |
| 18 | 4,875,000 | 5,025,000 | 66 | 1060 | 0.796255567 | NUDT7 |
| 18 | 4,950,000 | 5,100,000 | 67 | 1324 | 0.127734357 | NUDT7,VAT1L |
| 18 | 5,025,000 | 5,175,000 | 68 | 1433 | -1.325846109 | VAT1L |
| 18 | 5,100,000 | 5,250,000 | 69 | 1560 | -1.543586861 | CLEC3A,VAT1L |
| 18 | 5,175,000 | 5,325,000 | 70 | 1230 | -0.704769878 | CLEC3A,VAT1L,WWOX |
| 18 | 5,250,000 | 5,400,000 | 71 | 869 | -0.638814444 | CLEC3A,WWOX |
| 18 | 5,325,000 | 5,475,000 | 72 | 1046 | -0.321008837 | WWOX |
| 18 | 5,400,000 | 5,550,000 | 73 | 1212 | 0.100692222 | WWOX |
| 18 | 5,475,000 | 5,625,000 | 74 | 1307 | 0.882423146 | WWOX |
| 18 | 5,550,000 | 5,700,000 | 75 | 1192 | 1.045218063 | WWOX |
| 18 | 5,625,000 | 5,775,000 | 76 | 998 | 1.095494912 | WWOX |
| 18 | 5,700,000 | 5,850,000 | 77 | 980 | 0.846615787 | WWOX |
| 18 | 5,775,000 | 5,925,000 | 78 | 841 | 0.706348849 | WWOX |
| 18 | 5,850,000 | 6,000,000 | 79 | 870 | 0.620615108 | WWOX |
| 18 | 5,925,000 | 6,075,000 | 80 | 761 | 0.501777618 | WWOX |
| 18 | 6,000,000 | 6,150,000 | 81 | 640 | -0.75354508 | WWOX |
| 18 | 6,075,000 | 6,225,000 | 82 | 1049 | -1.932187489 | WWOX |
| 18 | 6,150,000 | 6,300,000 | 83 | 1092 | -1.267129894 | WWOX |
| 18 | 6,225,000 | 6,375,000 | 84 | 946 | -0.753255754 | |
| 18 | 6,300,000 | 6,450,000 | 85 | 1111 | -0.272165258 | |
| 18 | 6,375,000 | 6,525,000 | 86 | 1100 | 0.612369467 | |
| 18 | 6,450,000 | 6,600,000 | 87 | 897 | 0.841782307 | MAF |
| 18 | 6,525,000 | 6,675,000 | 88 | 963 | 0.599111412 | MAF |
| 18 | 6,600,000 | 6,750,000 | 89 | 786 | 0.691163304 | |
| 18 | 6,675,000 | 6,825,000 | 90 | 825 | 0.861101997 | |
| 18 | 6,750,000 | 6,900,000 | 91 | 1242 | 0.864445495 | |
| 18 | 6,825,000 | 6,975,000 | 92 | 1188 | 0.437860306 | |
| 18 | 6,900,000 | 7,050,000 | 93 | 878 | -0.623858233 | |
| 18 | 6,975,000 | 7,125,000 | 94 | 649 | -0.093523812 | |
| 18 | 7,050,000 | 7,200,000 | 95 | 848 | 0.676424618 | |
| 18 | 7,125,000 | 7,275,000 | 96 | 831 | 0.911812512 | |
| 18 | 7,200,000 | 7,350,000 | 97 | 498 | 0.901813741 | |
| 18 | 7,275,000 | 7,425,000 | 98 | 517 | -0.472019163 | CDYL2,DYNLRB2 |
| 18 | 7,350,000 | 7,500,000 | 99 | 828 | -0.104084989 | CDYL2,DYNLRB2 |
| 18 | 7,425,000 | 7,575,000 | 100 | 1046 | 0.636831413 | CDYL2 |
| 18 | 7,500,000 | 7,650,000 | 101 | 1101 | 0.661933957 | |
| 18 | 7,575,000 | 7,725,000 | 102 | 1009 | 0.574587396 | CMC2 |
| 18 | 7,650,000 | 7,800,000 | 103 | 644 | 0.401392199 | ATMIN,C16orf46,CENPN,CMC2,GCSH |
| 18 | 7,725,000 | 7,875,000 | 104 | 472 | -0.259302248 | ATMIN,C16orf46,CENPN,CMC2,GCSH,PKD1L2 |
| 18 | 7,800,000 | 7,950,000 | 105 | 731 | 0.286620572 | BCMO1,GCSH,PKD1L2 |
| 18 | 7,875,000 | 8,025,000 | 106 | 1077 | 0.728967098 | BCMO1,GAN,PKD1L2 |
| 18 | 7,950,000 | 8,100,000 | 107 | 963 | 0.711661857 | BCMO1,GAN |
| 18 | 8,025,000 | 8,175,000 | 108 | 628 | 0.363327682 | GAN |
| 18 | 8,100,000 | 8,250,000 | 109 | 860 | 0.659909694 | CMIP |
| 18 | 8,175,000 | 8,325,000 | 110 | 1024 | 0.828954179 | CMIP |
| 18 | 8,250,000 | 8,400,000 | 111 | 1125 | 0.817475159 | CMIP |
| 18 | 8,325,000 | 8,475,000 | 112 | 1144 | 0.304615834 | PLCG2,ENSBTAG00000048177 |
| 18 | 8,400,000 | 8,550,000 | 113 | 865 | 0.266819121 | PLCG2,ENSBTAG00000048177 |
| 18 | 8,475,000 | 8,625,000 | 114 | 816 | -0.690781363 | PLCG2,SDR42E1 |
| 18 | 8,550,000 | 8,700,000 | 115 | 631 | -2.802610122 | HSD17B2,SDR42E1 |
| 18 | 8,625,000 | 8,775,000 | 116 | 413 | -2.286107467 | HSD17B2,MPHOSPH6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 8,700,000 | 8,850,000 | 117 | 426 | 0.087183418 | HSD17B2,MPHOSPH6 |
| 18 | 8,775,000 | 8,925,000 | 118 | 552 | 0.549345904 | MPHOSPH6 |
| 18 | 8,850,000 | 9,000,000 | 119 | 704 | 1.090285341 | |
| 18 | 8,925,000 | 9,075,000 | 120 | 810 | 0.493167133 | |
| 18 | 9,000,000 | 9,150,000 | 121 | 993 | 0.249633019 | |
| 18 | 9,075,000 | 9,225,000 | 122 | 1008 | 0.659862286 | |
| 18 | 9,150,000 | 9,300,000 | 123 | 762 | 0.266140679 | |
| 18 | 9,225,000 | 9,375,000 | 124 | 647 | 0.171108467 | |
| 18 | 9,300,000 | 9,450,000 | 125 | 857 | 0.841666898 | |
| 18 | 9,375,000 | 9,525,000 | 126 | 841 | 0.529089228 | CDH13 |
| 18 | 9,450,000 | 9,600,000 | 127 | 980 | 0.030867121 | CDH13 |
| 18 | 9,525,000 | 9,675,000 | 128 | 1396 | 0.37559703 | CDH13 |
| 18 | 9,600,000 | 9,750,000 | 129 | 1243 | 0.384793851 | CDH13 |
| 18 | 9,675,000 | 9,825,000 | 130 | 785 | -0.170806872 | CDH13 |
| 18 | 9,750,000 | 9,900,000 | 131 | 820 | 0.31179528 | CDH13 |
| 18 | 9,825,000 | 9,975,000 | 132 | 773 | 0.134782671 | CDH13 |
| 18 | 9,900,000 | 10,050,000 | 133 | 923 | -0.231908277 | CDH13 |
| 18 | 9,975,000 | 10,125,000 | 134 | 1145 | -0.793926377 | CDH13 |
| 18 | 10,050,000 | 10,200,000 | 135 | 727 | -1.525238033 | CDH13,HSBP1 |
| 18 | 10,125,000 | 10,275,000 | 136 | 655 | 0.576064376 | CDH13,HSBP1,MLYCD |
| 18 | 10,200,000 | 10,350,000 | 137 | 825 | 1.068734448 | MLYCD,NECAB2,OSGIN1 |
| 18 | 10,275,000 | 10,425,000 | 138 | 643 | 0.974987757 | MBTPS1,NECAB2,OSGIN1,SLC38A8 |
| 18 | 10,350,000 | 10,500,000 | 139 | 598 | 0.817604371 | ADAD2,DNAAF1,HSDL1,MBTPS1,NECAB2,SLC38A8,TAF1C |
| 18 | 10,425,000 | 10,575,000 | 140 | 690 | 0.480073923 | ADAD2,DNAAF1,HSDL1,KCNG4,MBTPS1,TAF1C |
| 18 | 10,500,000 | 10,650,000 | 141 | 489 | -0.336299622 | ATP2C2,KCNG4 |
| 18 | 10,575,000 | 10,725,000 | 142 | 762 | -0.409895842 | ATP2C2,TLDC1 |
| 18 | 10,650,000 | 10,800,000 | 143 | 903 | -1.350243977 | ATP2C2,COTL1,TLDC1 |
| 18 | 10,725,000 | 10,875,000 | 144 | 578 | -1.597450151 | COTL1,KLHL36 |
| 18 | 10,800,000 | 10,950,000 | 145 | 515 | 0.970781041 | COTL1,KLHL36,USP10 |
| 18 | 10,875,000 | 11,025,000 | 146 | 383 | 1.159419528 | CRISPLD2,USP10 |
| 18 | 10,950,000 | 11,100,000 | 147 | 290 | 0.958808962 | CRISPLD2 |
| 18 | 11,025,000 | 11,175,000 | 148 | 443 | -1.772907785 | CRISPLD2,KIAA0513,ZDHHC7 |
| 18 | 11,100,000 | 11,250,000 | 149 | 486 | -1.88018939 | FAM92B,KIAA0513,ZDHHC7 |
| 18 | 11,175,000 | 11,325,000 | 150 | 503 | 0.481075746 | FAM92B,KIAA0513 |
| 18 | 11,250,000 | 11,400,000 | 151 | 795 | 0.690785151 | |
| 18 | 11,325,000 | 11,475,000 | 152 | 842 | 0.416147363 | |
| 18 | 11,400,000 | 11,550,000 | 153 | 734 | 0.271602869 | |
| 18 | 11,475,000 | 11,625,000 | 154 | 574 | 0.688814161 | |
| 18 | 11,550,000 | 11,700,000 | 155 | 256 | 1.109221616 | GINS2,GSE1 |
| 18 | 11,625,000 | 11,775,000 | 156 | 293 | -0.908762699 | GINS2,GSE1 |
| 18 | 11,700,000 | 11,850,000 | 157 | 308 | -1.014744593 | COX4I1,EMC8,GINS2 |
| 18 | 11,775,000 | 11,925,000 | 158 | 308 | -1.180596906 | COX4I1,EMC8,IRF8 |
| 18 | 11,850,000 | 12,000,000 | 159 | 441 | -0.235168929 | IRF8 |
| 18 | 11,925,000 | 12,075,000 | 160 | 572 | 0.8223827 | |
| 18 | 12,000,000 | 12,150,000 | 161 | 628 | 0.536367898 | |
| 18 | 12,075,000 | 12,225,000 | 162 | 412 | -1.057176085 | |
| 18 | 12,150,000 | 12,300,000 | 163 | 363 | -0.589367433 | |
| 18 | 12,225,000 | 12,375,000 | 164 | 460 | 0.872722966 | |
| 18 | 12,300,000 | 12,450,000 | 165 | 367 | 0.307474824 | FOXC2,FOXF1,FOXL1,MTHFSD |
| 18 | 12,375,000 | 12,525,000 | 166 | 288 | 0.198785188 | FOXC2,FOXF1,FOXL1,MTHFSD |
| 18 | 12,450,000 | 12,600,000 | 167 | 278 | 0.440138895 | |
| 18 | 12,525,000 | 12,675,000 | 168 | 407 | 0.006605602 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 12,600,000 | 12,750,000 | 169 | 516 | 0.097063876 | |
| 18 | 12,675,000 | 12,825,000 | 170 | 406 | 0.359123528 | |
| 18 | 12,750,000 | 12,900,000 | 171 | 293 | 0.703225267 | |
| 18 | 12,825,000 | 12,975,000 | 172 | 260 | 1.026057724 | C16orf95,FBXO31 |
| 18 | 12,900,000 | 13,050,000 | 173 | 196 | 1.180861811 | C16orf95,FBXO31,MAP1LC3B,ZCCHC14 |
| 18 | 12,975,000 | 13,125,000 | 174 | 132 | 1.268179535 | FBXO31,MAP1LC3B,ZCCHC14 |
| 18 | 13,050,000 | 13,200,000 | 175 | 260 | 0.892772763 | JPH3,ZCCHC14 |
| 18 | 13,125,000 | 13,275,000 | 176 | 762 | -0.076332313 | JPH3,KLHDC4 |
| 18 | 13,200,000 | 13,350,000 | 177 | 1049 | -0.541098966 | JPH3,KLHDC4,LAT |
| 18 | 13,275,000 | 13,425,000 | 178 | 763 | -0.000241292 | CA5A,KLHDC4,LAT |
| 18 | 13,350,000 | 13,500,000 | 179 | 503 | 0.509305349 | BANP,CA5A,LAT |
| 18 | 13,425,000 | 13,575,000 | 180 | 402 | -0.22960751 | BANP |
| 18 | 13,500,000 | 13,650,000 | 181 | 644 | -1.703763256 | |
| 18 | 13,575,000 | 13,725,000 | 182 | 623 | -1.780673559 | |
| 18 | 13,650,000 | 13,800,000 | 183 | 333 | -1.190077964 | ZNF469 |
| 18 | 13,725,000 | 13,875,000 | 184 | 318 | -0.656947073 | ZFPM1,ZNF469,ENSBTAG00000018507 |
| 18 | 13,800,000 | 13,950,000 | 185 | 305 | -0.131975046 | CYBA,IL17C,MVD,ZC3H18,ZFPM1,ENSBTAG00000018507 |
| 18 | 13,875,000 | 14,025,000 | 186 | 556 | 0.399477527 | CTU2,CYBA,IL17C,MVD,PIEZO1,RNF166,SNAI3,ZC3H18 |
| 18 | 13,950,000 | 14,100,000 | 187 | 694 | 0.313035684 | APRT,CBFA2T3,CDT1,CTU2,GALNS,PABPN1L,PIEZO1,RNF166,SNAI3,TRAPPC2L |
| 18 | 14,025,000 | 14,175,000 | 188 | 414 | -0.310114656 | APRT,CBFA2T3,CDT1,GALNS,PABPN1L,TRAPPC2L |
| 18 | 14,100,000 | 14,250,000 | 189 | 297 | -0.280819334 | CBFA2T3 |
| 18 | 14,175,000 | 14,325,000 | 190 | 333 | 0.240675966 | ACSF3,CDH15,MGC157263 |
| 18 | 14,250,000 | 14,400,000 | 191 | 279 | -2.45808652 | ACSF3,ANKRD11,CDH15,MGC157263 |
| 18 | 14,325,000 | 14,475,000 | 192 | 251 | -4.169723495 | ANKRD11,MGC157263 |
| 18 | 14,400,000 | 14,550,000 | 193 | 265 | -4.098142994 | ANKRD11,CPNE7,RPL13,SPG7 |
| 18 | 14,475,000 | 14,625,000 | 194 | 189 | -4.456206139 | CDK10,CHMP1A,CPNE7,DPEP1,RPL13,SPATA2L,SPG7 |
| 18 | 14,550,000 | 14,700,000 | 195 | 77 | -4.98248442 | CDK10,CHMP1A,CPNE7,DPEP1,FANCA,SPATA2L,SPIRE2,VPS9D1,ZNF276 |
| 18 | 14,625,000 | 14,775,000 | 196 | 69 | -0.938049309 | FANCA,MC1R,SPIRE2,TCF25,TUBB3,VPS9D1,ZNF276 |
| 18 | 14,700,000 | 14,850,000 | 197 | 63 | -0.309391249 | DBNDD1,DEF8,GAS8,MC1R,SPIRE2,TCF25,TUBB3,ENSBTAG00000038051 |
| 18 | 14,775,000 | 14,925,000 | 198 | 73 | -4.105383604 | DBNDD1,DEF8,GAS8,ENSBTAG00000038051 |
| 18 | 14,850,000 | 15,000,000 | 199 | 225 | -1.855584568 | SHCBP1 |
| 18 | 14,925,000 | 15,075,000 | 200 | 426 | 0.279231322 | ORC6,SHCBP1,VPS35 |
| 18 | 15,000,000 | 15,150,000 | 201 | 553 | -0.302298741 | MYLK3,ORC6,VPS35,ENSBTAG00000023726 |
| 18 | 15,075,000 | 15,225,000 | 202 | 457 | -0.687200177 | C18H16orf87,MYLK3,ORC6,ENSBTAG00000023726 |
| 18 | 15,150,000 | 15,300,000 | 203 | 676 | 0.661224808 | C18H16orf87 |
| 18 | 15,225,000 | 15,375,000 | 204 | 1109 | 0.607529983 | GPT2 |
| 18 | 15,300,000 | 15,450,000 | 205 | 1007 | -0.528736462 | DNAJA2,GPT2 |
| 18 | 15,375,000 | 15,525,000 | 206 | 737 | -0.966517623 | DNAJA2,GPT2 |
| 18 | 15,450,000 | 15,600,000 | 207 | 667 | -1.126411193 | NETO2 |
| 18 | 15,525,000 | 15,675,000 | 208 | 533 | -1.60687948 | ITFG1,NETO2 |
| 18 | 15,600,000 | 15,750,000 | 209 | 526 | 0.456733278 | ITFG1 |
| 18 | 15,675,000 | 15,825,000 | 210 | 843 | 0.323643038 | ITFG1 |
| 18 | 15,750,000 | 15,900,000 | 211 | 608 | -0.514053221 | ITFG1 |
| 18 | 15,825,000 | 15,975,000 | 212 | 214 | -2.639925541 | ITFG1,PHKB |
| 18 | 15,900,000 | 16,050,000 | 213 | 238 | -1.261734212 | ITFG1,PHKB |
| 18 | 15,975,000 | 16,125,000 | 214 | 293 | 0.618893659 | PHKB |
| 18 | 16,050,000 | 16,200,000 | 215 | 702 | -0.134663639 | PHKB |
| 18 | 16,125,000 | 16,275,000 | 216 | 1080 | -0.50025405 | PHKB |
| 18 | 16,200,000 | 16,350,000 | 217 | 1044 | 0.172006504 | |
| 18 | 16,275,000 | 16,425,000 | 218 | 819 | 0.936569165 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 18 | 16,350,000 | 16,500,000 | 219 | 521 | 1.169045456 | |
| 18 | 16,425,000 | 16,575,000 | 220 | 512 | 1.007838575 | ENSBTAG00000044191 |
| 18 | 16,500,000 | 16,650,000 | 221 | 757 | 0.669624003 | ENSBTAG00000044191 |
| 18 | 16,575,000 | 16,725,000 | 222 | 835 | 0.143792291 | ENSBTAG00000010858,ENSBTAG00000044191 |
| 18 | 16,650,000 | 16,800,000 | 223 | 594 | 0.167633572 | LONP2,ENSBTAG00000010858 |
| 18 | 16,725,000 | 16,875,000 | 224 | 592 | 0.728741276 | LONP2,SIAH1,ENSBTAG00000010858 |
| 18 | 16,800,000 | 16,950,000 | 225 | 650 | 0.517009549 | LONP2,SIAH1 |
| 18 | 16,875,000 | 17,025,000 | 226 | 648 | 0.793733355 | |
| 18 | 16,950,000 | 17,100,000 | 227 | 550 | 0.985235238 | N4BP1 |
| 18 | 17,025,000 | 17,175,000 | 228 | 623 | 0.344779422 | N4BP1 |
| 18 | 17,100,000 | 17,250,000 | 229 | 802 | 0.468192789 | |
| 18 | 17,175,000 | 17,325,000 | 230 | 752 | 0.893447501 | |
| 18 | 17,250,000 | 17,400,000 | 231 | 921 | 0.930944784 | |
| 18 | 17,325,000 | 17,475,000 | 232 | 1171 | 0.010219389 | |
| 18 | 17,400,000 | 17,550,000 | 233 | 1059 | -0.632835014 | |
| 18 | 17,475,000 | 17,625,000 | 234 | 784 | -0.365565807 | |
| 18 | 17,550,000 | 17,700,000 | 235 | 1123 | -0.032474078 | |
| 18 | 17,625,000 | 17,775,000 | 236 | 981 | 0.139186421 | |
| 18 | 17,700,000 | 17,850,000 | 237 | 508 | -0.430376958 | CBLN1 |
| 18 | 17,775,000 | 17,925,000 | 238 | 541 | -0.834205219 | C18H16orf78,CBLN1 |
| 18 | 17,850,000 | 18,000,000 | 239 | 808 | 0.292011759 | C18H16orf78 |
| 18 | 17,925,000 | 18,075,000 | 240 | 827 | 0.626429605 | C18H16orf78,ZNF423 |
| 18 | 18,000,000 | 18,150,000 | 241 | 854 | -0.966824496 | ZNF423 |
| 18 | 18,075,000 | 18,225,000 | 242 | 1013 | -0.800642385 | ZNF423 |
| 18 | 18,150,000 | 18,300,000 | 243 | 827 | 0.271457903 | ZNF423 |
| 18 | 18,225,000 | 18,375,000 | 244 | 710 | 0.351937573 | ZNF423 |
| 18 | 18,300,000 | 18,450,000 | 245 | 596 | 0.354406778 | ZNF423 |
| 18 | 18,375,000 | 18,525,000 | 246 | 463 | 0.748349124 | ZNF423 |
| 18 | 18,450,000 | 18,600,000 | 247 | 419 | 0.54228183 | CNEP1R1,HEATR3 |
| 18 | 18,525,000 | 18,675,000 | 248 | 645 | 0.554836612 | CNEP1R1,HEATR3 |
| 18 | 18,600,000 | 18,750,000 | 249 | 647 | 0.428606301 | ADCY7,HEATR3,PAPD5 |
| 18 | 18,675,000 | 18,825,000 | 250 | 494 | 0.357328621 | ADCY7,BRD7,PAPD5 |
| 18 | 18,750,000 | 18,900,000 | 251 | 460 | 0.578839244 | ADCY7,BRD7 |
| 18 | 18,825,000 | 18,975,000 | 252 | 360 | -0.054869856 | BRD7 |
| 18 | 18,900,000 | 19,050,000 | 253 | 424 | -0.918173211 | NKD1 |
| 18 | 18,975,000 | 19,125,000 | 254 | 479 | -1.080034025 | NKD1 |
| 18 | 19,050,000 | 19,200,000 | 255 | 502 | -2.902626526 | NKD1,NOD2,SNX20 |
| 18 | 19,125,000 | 19,275,000 | 256 | 453 | -3.301254164 | CYLD,NOD2,SNX20 |
| 18 | 19,200,000 | 19,350,000 | 257 | 546 | 0.590030143 | CYLD,NOD2 |
| 18 | 19,275,000 | 19,425,000 | 258 | 895 | 0.483004287 | CYLD |
| 18 | 19,350,000 | 19,500,000 | 259 | 872 | 0.634883797 | |
| 18 | 19,425,000 | 19,575,000 | 260 | 904 | 0.831989985 | |
| 18 | 19,500,000 | 19,650,000 | 261 | 986 | 0.391652859 | SALL1 |
| 18 | 19,575,000 | 19,725,000 | 262 | 888 | -0.47665735 | SALL1 |
| 18 | 19,650,000 | 19,800,000 | 263 | 1061 | -0.121926426 | SALL1 |
| 18 | 19,725,000 | 19,875,000 | 264 | 1040 | 0.938286564 | |
| 18 | 19,800,000 | 19,950,000 | 265 | 1214 | 0.991881783 | |
| 18 | 19,875,000 | 20,025,000 | 266 | 1265 | 0.466096311 | |
| 18 | 19,950,000 | 20,100,000 | 267 | 962 | -0.702266175 | |
| 18 | 20,025,000 | 20,175,000 | 268 | 756 | -0.347037364 | |
| 18 | 20,100,000 | 20,250,000 | 269 | 775 | 0.104421668 | |
| 18 | 20,175,000 | 20,325,000 | 270 | 710 | 0.42534333 | NKX6-2 |
| 18 | 20,250,000 | 20,400,000 | 271 | 463 | 0.053740224 | NKX6-2 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|--|
| 18 | 20,325,000 | 20,475,000 | 272 | 601 | 0.08791602 | |
| 18 | 20,400,000 | 20,550,000 | 273 | 919 | -0.768662163 | |
| 18 | 20,475,000 | 20,625,000 | 274 | 677 | -1.287230262 | |
| 18 | 20,550,000 | 20,700,000 | 275 | 292 | 0.333833187 | |
| 18 | 20,625,000 | 20,775,000 | 276 | 656 | 0.529483736 | |
| 18 | 20,700,000 | 20,850,000 | 277 | 773 | 0.548274388 | |
| 18 | 20,775,000 | 20,925,000 | 278 | 540 | 0.4070215 | |
| 18 | 20,850,000 | 21,000,000 | 279 | 464 | 0.022546065 | |
| 18 | 20,925,000 | 21,075,000 | 280 | 411 | -0.008205922 | TOX3 |
| 18 | 21,000,000 | 21,150,000 | 281 | 480 | 0.950811302 | TOX3 |
| 18 | 21,075,000 | 21,225,000 | 282 | 721 | 0.993381141 | TOX3 |
| 18 | 21,150,000 | 21,300,000 | 283 | 926 | -0.528704582 | |
| 18 | 21,225,000 | 21,375,000 | 284 | 724 | -1.981305999 | |
| 18 | 21,300,000 | 21,450,000 | 285 | 452 | -0.081958272 | |
| 18 | 21,375,000 | 21,525,000 | 286 | 647 | 0.418732553 | |
| 18 | 21,450,000 | 21,600,000 | 287 | 643 | 0.17502182 | |
| 18 | 21,525,000 | 21,675,000 | 288 | 455 | -0.239062531 | |
| 18 | 21,600,000 | 21,750,000 | 289 | 375 | 0.041259278 | CHD9 |
| 18 | 21,675,000 | 21,825,000 | 290 | 230 | 0.195201558 | CHD9 |
| 18 | 21,750,000 | 21,900,000 | 291 | 285 | -0.505850654 | CHD9,RBL2 |
| 18 | 21,825,000 | 21,975,000 | 292 | 537 | 0.066590155 | AKTIP,CHD9,RBL2 |
| 18 | 21,900,000 | 22,050,000 | 293 | 668 | 0.366506279 | AKTIP,RBL2,RPGRIP1L |
| 18 | 21,975,000 | 22,125,000 | 294 | 505 | 0.145510584 | FTO,RPGRIP1L |
| 18 | 22,050,000 | 22,200,000 | 295 | 529 | -0.36546404 | FTO,RPGRIP1L |
| 18 | 22,125,000 | 22,275,000 | 296 | 725 | -0.388571576 | FTO |
| 18 | 22,200,000 | 22,350,000 | 297 | 677 | -0.631011167 | FTO |
| 18 | 22,275,000 | 22,425,000 | 298 | 596 | -0.924064178 | FTO |
| 18 | 22,350,000 | 22,500,000 | 299 | 467 | -0.42098322 | FTO |
| 18 | 22,425,000 | 22,575,000 | 300 | 375 | -0.338522854 | FTO |
| 18 | 22,500,000 | 22,650,000 | 301 | 534 | -0.058224984 | FTO |
| 18 | 22,575,000 | 22,725,000 | 302 | 469 | -0.196090279 | IRX3 |
| 18 | 22,650,000 | 22,800,000 | 303 | 363 | -1.046040017 | IRX3 |
| 18 | 22,725,000 | 22,875,000 | 304 | 628 | 0.108683105 | |
| 18 | 22,800,000 | 22,950,000 | 305 | 585 | 0.862793034 | |
| 18 | 22,875,000 | 23,025,000 | 306 | 368 | 0.664427434 | |
| 18 | 22,950,000 | 23,100,000 | 307 | 397 | 0.761171117 | |
| 18 | 23,025,000 | 23,175,000 | 308 | 758 | -0.275284875 | |
| 18 | 23,100,000 | 23,250,000 | 309 | 918 | -0.541463535 | |
| 18 | 23,175,000 | 23,325,000 | 310 | 548 | 0.372023398 | IRX5 |
| 18 | 23,250,000 | 23,400,000 | 311 | 637 | 0.292462543 | IRX5 |
| 18 | 23,325,000 | 23,475,000 | 312 | 824 | 0.467758565 | |
| 18 | 23,400,000 | 23,550,000 | 313 | 708 | 0.683145442 | |
| 18 | 23,475,000 | 23,625,000 | 314 | 831 | 0.117489276 | |
| 18 | 23,550,000 | 23,700,000 | 315 | 892 | 0.161643374 | IRX6 |
| 18 | 23,625,000 | 23,775,000 | 316 | 879 | -0.667961153 | IRX6 |
| 18 | 23,700,000 | 23,850,000 | 317 | 898 | -1.608608945 | MMP2 |
| 18 | 23,775,000 | 23,925,000 | 318 | 697 | -0.851269083 | LPCAT2,MMP2 |
| 18 | 23,850,000 | 24,000,000 | 319 | 671 | -0.625807769 | LPCAT2,MMP2,SLC6A2 |
| 18 | 23,925,000 | 24,075,000 | 320 | 560 | -1.027500051 | CES1,LPCAT2,SLC6A2,ENSBTAG00000001851 |
| 18 | 24,000,000 | 24,150,000 | 321 | 450 | 0.067091909 | CES1,MT1A,MT1E,MT2,MT3,SLC6A2,ENSBTAG00000001851 |
| 18 | 24,075,000 | 24,225,000 | 322 | 527 | -0.275917103 | BBS2,MT1A,MT1E,MT2,MT3,MT4,ENSBTAG00000001851 |
| 18 | 24,150,000 | 24,300,000 | 323 | 594 | -1.128755443 | AMFR,BBS2,MT4,NUDT21,OGFOD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 24,225,000 | 24,375,000 | 324 | 755 | -0.515771975 | AMFR,BBS2,GNAO1,NUDT21,OGFOD1 |
| 18 | 24,300,000 | 24,450,000 | 325 | 615 | 0.384273221 | AMFR,GNAO1 |
| 18 | 24,375,000 | 24,525,000 | 326 | 406 | 0.732467617 | GNAO1 |
| 18 | 24,450,000 | 24,600,000 | 327 | 323 | 1.129830825 | GNAO1 |
| 18 | 24,525,000 | 24,675,000 | 328 | 330 | 0.991004326 | |
| 18 | 24,600,000 | 24,750,000 | 329 | 570 | 0.194910605 | |
| 18 | 24,675,000 | 24,825,000 | 330 | 857 | -0.680829159 | CES5A |
| 18 | 24,750,000 | 24,900,000 | 331 | 751 | -0.064146235 | BREH1,CES5A,NUP93 |
| 18 | 24,825,000 | 24,975,000 | 332 | 416 | 1.07045089 | BREH1,NUP93 |
| 18 | 24,900,000 | 25,050,000 | 333 | 323 | 1.112901283 | HERPUD1,NUP93,SLC12A3 |
| 18 | 24,975,000 | 25,125,000 | 334 | 582 | 0.762311333 | HERPUD1,NUP93,SLC12A3 |
| 18 | 25,050,000 | 25,200,000 | 335 | 688 | 0.518825532 | HERPUD1,NLRC5 |
| 18 | 25,125,000 | 25,275,000 | 336 | 507 | 0.308986566 | CPNE2,NIP30,NLRC5 |
| 18 | 25,200,000 | 25,350,000 | 337 | 352 | 0.515855374 | ARL2BP,CPNE2,NIP30,PLLP,RSPRY1 |
| 18 | 25,275,000 | 25,425,000 | 338 | 354 | 0.690259433 | ARL2BP,NIP30,PLLP,RSPRY1 |
| 18 | 25,350,000 | 25,500,000 | 339 | 321 | 0.227353206 | CCL22,CX3CL1 |
| 18 | 25,425,000 | 25,575,000 | 340 | 172 | -0.016166407 | CCL17,CCL22,CIAPIN1,COQ9,CX3CL1,DOK4,POLR2C |
| 18 | 25,500,000 | 25,650,000 | 341 | 415 | 1.073897471 | CCDC102A,CCL17,CIAPIN1,COQ9,DOK4,GPR114,POLR2C |
| 18 | 25,575,000 | 25,725,000 | 342 | 610 | 0.88107869 | CCDC102A,GPR114,ENSBTAG00000038141,ENSBTAG0000046323 |
| 18 | 25,650,000 | 25,800,000 | 343 | 660 | 0.491780775 | CCDC135,GPR97,KATNB1,ENSBTAG00000038141,ENSBTAG00000046323 |
| 18 | 25,725,000 | 25,875,000 | 344 | 675 | 0.247139438 | CCDC135,GPR97,KATNB1,KIFC3 |
| 18 | 25,800,000 | 25,950,000 | 345 | 623 | 0.624260336 | CNGB1,KATNB1,KIFC3 |
| 18 | 25,875,000 | 26,025,000 | 346 | 466 | 0.720456665 | CNGB1,MMP15,TEPP,USB1,ZNF319 |
| 18 | 25,950,000 | 26,100,000 | 347 | 395 | -0.192425907 | C18H16orf80,CNGB1,CSNK2A2,MMP15,TEPP,USB1,ZNF319 |
| 18 | 26,025,000 | 26,175,000 | 348 | 457 | -0.482021275 | C18H16orf80,CCDC113,CSNK2A2,MMP15 |
| 18 | 26,100,000 | 26,250,000 | 349 | 566 | -0.822340214 | CCDC113,CSNK2A2,KLKBL4 |
| 18 | 26,175,000 | 26,325,000 | 350 | 897 | -0.921007376 | CCDC113,GINS3,KLKBL4 |
| 18 | 26,250,000 | 26,400,000 | 351 | 836 | -0.546345842 | CNOT1,GINS3,NDRG4,SETD6 |
| 18 | 26,325,000 | 26,475,000 | 352 | 474 | 0.550513768 | CNOT1,NDRG4,SETD6 |
| 18 | 26,400,000 | 26,550,000 | 353 | 299 | 1.38346028 | CNOT1,GOT2,SLC38A7 |
| 18 | 26,475,000 | 26,625,000 | 354 | 655 | 0.542551333 | GOT2,SLC38A7 |
| 18 | 26,550,000 | 26,700,000 | 355 | 1133 | 0.354315807 | GOT2 |
| 18 | 26,625,000 | 26,775,000 | 356 | 914 | 0.138916509 | |
| 18 | 26,700,000 | 26,850,000 | 357 | 648 | 0.141214338 | |
| 18 | 26,775,000 | 26,925,000 | 358 | 780 | 0.749101299 | |
| 18 | 26,850,000 | 27,000,000 | 359 | 988 | 0.816687115 | |
| 18 | 26,925,000 | 27,075,000 | 360 | 1236 | -0.42566532 | |
| 18 | 27,000,000 | 27,150,000 | 361 | 1154 | -0.294152341 | |
| 18 | 27,075,000 | 27,225,000 | 362 | 1158 | 0.446943198 | |
| 18 | 27,150,000 | 27,300,000 | 363 | 992 | 0.525817158 | |
| 18 | 27,225,000 | 27,375,000 | 364 | 860 | 0.058521486 | |
| 18 | 27,300,000 | 27,450,000 | 365 | 1237 | 0.596409859 | |
| 18 | 27,375,000 | 27,525,000 | 366 | 1460 | 0.736323546 | |
| 18 | 27,450,000 | 27,600,000 | 367 | 1405 | 0.534714904 | |
| 18 | 27,525,000 | 27,675,000 | 368 | 1241 | -0.321426468 | |
| 18 | 27,600,000 | 27,750,000 | 369 | 1452 | -0.818677286 | |
| 18 | 27,675,000 | 27,825,000 | 370 | 1302 | -0.327732424 | |
| 18 | 27,750,000 | 27,900,000 | 371 | 1003 | -0.520171718 | |
| 18 | 27,825,000 | 27,975,000 | 372 | 1000 | 0.656822257 | |
| 18 | 27,900,000 | 28,050,000 | 373 | 1027 | -0.181302025 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 18 | 27,975,000 | 28,125,000 | 374 | 740 | -1.372844417 | |
| 18 | 28,050,000 | 28,200,000 | 375 | 559 | 0.382814679 | |
| 18 | 28,125,000 | 28,275,000 | 376 | 1069 | -0.9131726 | |
| 18 | 28,200,000 | 28,350,000 | 377 | 1238 | -1.401215459 | |
| 18 | 28,275,000 | 28,425,000 | 378 | 1115 | -1.157824694 | |
| 18 | 28,350,000 | 28,500,000 | 379 | 906 | -1.118193812 | ENSBTAG00000046851 |
| 18 | 28,425,000 | 28,575,000 | 380 | 933 | 0.467257888 | ENSBTAG00000046851 |
| 18 | 28,500,000 | 28,650,000 | 381 | 1243 | 0.621463932 | |
| 18 | 28,575,000 | 28,725,000 | 382 | 1116 | 0.63406249 | |
| 18 | 28,650,000 | 28,800,000 | 383 | 991 | 0.061398503 | |
| 18 | 28,725,000 | 28,875,000 | 384 | 856 | -0.394909331 | |
| 18 | 28,800,000 | 28,950,000 | 385 | 996 | 0.560568316 | |
| 18 | 28,875,000 | 29,025,000 | 386 | 991 | 0.829111046 | |
| 18 | 28,950,000 | 29,100,000 | 387 | 731 | 0.585902232 | |
| 18 | 29,025,000 | 29,175,000 | 388 | 1021 | 0.677465763 | |
| 18 | 29,100,000 | 29,250,000 | 389 | 955 | 0.810977331 | |
| 18 | 29,175,000 | 29,325,000 | 390 | 521 | 0.659441626 | |
| 18 | 29,250,000 | 29,400,000 | 391 | 988 | 0.947365025 | |
| 18 | 29,325,000 | 29,475,000 | 392 | 1579 | 0.866697206 | ENSBTAG00000046749 |
| 18 | 29,400,000 | 29,550,000 | 393 | 963 | 0.748532125 | CDH8,ENSBTAG00000046749 |
| 18 | 29,475,000 | 29,625,000 | 394 | 487 | 0.669287027 | CDH8,ENSBTAG00000046749 |
| 18 | 29,550,000 | 29,700,000 | 395 | 563 | 0.555732832 | CDH8 |
| 18 | 29,625,000 | 29,775,000 | 396 | 463 | 0.64619896 | CDH8 |
| 18 | 29,700,000 | 29,850,000 | 397 | 423 | 1.030688994 | CDH8 |
| 18 | 29,775,000 | 29,925,000 | 398 | 441 | 1.21322746 | CDH8 |
| 18 | 29,850,000 | 30,000,000 | 399 | 782 | 0.963353052 | |
| 18 | 29,925,000 | 30,075,000 | 400 | 1121 | 0.910531986 | |
| 18 | 30,000,000 | 30,150,000 | 401 | 1192 | 0.859560437 | |
| 18 | 30,075,000 | 30,225,000 | 402 | 1137 | 0.282023733 | |
| 18 | 30,150,000 | 30,300,000 | 403 | 1164 | 0.348500175 | |
| 18 | 30,225,000 | 30,375,000 | 404 | 1161 | 0.612734965 | |
| 18 | 30,300,000 | 30,450,000 | 405 | 1234 | 0.637312166 | |
| 18 | 30,375,000 | 30,525,000 | 406 | 1371 | 0.848204131 | |
| 18 | 30,450,000 | 30,600,000 | 407 | 1023 | 0.800038518 | |
| 18 | 30,525,000 | 30,675,000 | 408 | 856 | 0.717299723 | |
| 18 | 30,600,000 | 30,750,000 | 409 | 1095 | 1.073905537 | |
| 18 | 30,675,000 | 30,825,000 | 410 | 1021 | 0.992433831 | |
| 18 | 30,750,000 | 30,900,000 | 411 | 643 | 0.596947542 | |
| 18 | 30,825,000 | 30,975,000 | 412 | 604 | 0.542869563 | |
| 18 | 30,900,000 | 31,050,000 | 413 | 512 | 0.524204052 | |
| 18 | 30,975,000 | 31,125,000 | 414 | 359 | 1.327756566 | |
| 18 | 31,050,000 | 31,200,000 | 415 | 353 | 1.416219587 | |
| 18 | 31,125,000 | 31,275,000 | 416 | 476 | 1.268928063 | |
| 18 | 31,200,000 | 31,350,000 | 417 | 729 | 1.281220407 | |
| 18 | 31,275,000 | 31,425,000 | 418 | 912 | 1.094631797 | |
| 18 | 31,350,000 | 31,500,000 | 419 | 1096 | 0.854133225 | |
| 18 | 31,425,000 | 31,575,000 | 420 | 972 | 0.527498893 | |
| 18 | 31,500,000 | 31,650,000 | 421 | 690 | -0.465214021 | |
| 18 | 31,575,000 | 31,725,000 | 422 | 507 | -0.950185668 | |
| 18 | 31,650,000 | 31,800,000 | 423 | 663 | -1.960517678 | |
| 18 | 31,725,000 | 31,875,000 | 424 | 932 | -2.183231572 | |
| 18 | 31,800,000 | 31,950,000 | 425 | 968 | -0.912971442 | |
| 18 | 31,875,000 | 32,025,000 | 426 | 731 | -0.139071091 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 31,950,000 | 32,100,000 | 427 | 525 | -0.119955231 | |
| 18 | 32,025,000 | 32,175,000 | 428 | 450 | -0.931453667 | |
| 18 | 32,100,000 | 32,250,000 | 429 | 748 | -2.876319327 | |
| 18 | 32,175,000 | 32,325,000 | 430 | 1142 | -1.945045134 | |
| 18 | 32,250,000 | 32,400,000 | 431 | 1063 | -0.295423776 | |
| 18 | 32,325,000 | 32,475,000 | 432 | 995 | 0.176672468 | |
| 18 | 32,400,000 | 32,550,000 | 433 | 795 | 0.299088427 | |
| 18 | 32,475,000 | 32,625,000 | 434 | 670 | 0.664486028 | |
| 18 | 32,550,000 | 32,700,000 | 435 | 711 | 0.769362555 | |
| 18 | 32,625,000 | 32,775,000 | 436 | 783 | 0.753791819 | |
| 18 | 32,700,000 | 32,850,000 | 437 | 662 | 0.390694285 | CDH11 |
| 18 | 32,775,000 | 32,925,000 | 438 | 448 | 0.382286734 | CDH11 |
| 18 | 32,850,000 | 33,000,000 | 439 | 454 | 0.458170813 | CDH11 |
| 18 | 32,925,000 | 33,075,000 | 440 | 658 | 0.413286048 | |
| 18 | 33,000,000 | 33,150,000 | 441 | 988 | 0.41088716 | |
| 18 | 33,075,000 | 33,225,000 | 442 | 996 | 0.374165146 | |
| 18 | 33,150,000 | 33,300,000 | 443 | 713 | 0.301327242 | |
| 18 | 33,225,000 | 33,375,000 | 444 | 528 | 0.17021319 | |
| 18 | 33,300,000 | 33,450,000 | 445 | 561 | 0.609858673 | |
| 18 | 33,375,000 | 33,525,000 | 446 | 636 | 1.072635812 | |
| 18 | 33,450,000 | 33,600,000 | 447 | 1069 | 1.022567784 | |
| 18 | 33,525,000 | 33,675,000 | 448 | 1354 | 0.869404286 | |
| 18 | 33,600,000 | 33,750,000 | 449 | 1266 | -0.59409492 | |
| 18 | 33,675,000 | 33,825,000 | 450 | 1051 | -1.470537843 | |
| 18 | 33,750,000 | 33,900,000 | 451 | 739 | -0.027736524 | |
| 18 | 33,825,000 | 33,975,000 | 452 | 1025 | 0.516267309 | |
| 18 | 33,900,000 | 34,050,000 | 453 | 1267 | 0.19289855 | |
| 18 | 33,975,000 | 34,125,000 | 454 | 901 | 0.000725164 | |
| 18 | 34,050,000 | 34,200,000 | 455 | 648 | 0.329479547 | ENSBTAG00000045692 |
| 18 | 34,125,000 | 34,275,000 | 456 | 963 | 0.58108503 | CDH5,ENSBTAG00000045692 |
| 18 | 34,200,000 | 34,350,000 | 457 | 777 | 0.605333207 | BEAN1,CDH5,ENSBTAG00000045692 |
| 18 | 34,275,000 | 34,425,000 | 458 | 338 | 0.499668632 | BEAN1,CKLF,TK2 |
| 18 | 34,350,000 | 34,500,000 | 459 | 486 | 0.65965217 | BEAN1,CKLF,CMTM2,CMTM3,CMTM4,TK2 |
| 18 | 34,425,000 | 34,575,000 | 460 | 543 | 0.12771465 | CMTM2,CMTM3,CMTM4 |
| 18 | 34,500,000 | 34,650,000 | 461 | 302 | -0.859378365 | CCDC79,CMTM4,DYNC1LI2,NAE1 |
| 18 | 34,575,000 | 34,725,000 | 462 | 177 | 0.512263932 | CA7,CCDC79,DYNC1LI2,NAE1,PDP2 |
| 18 | 34,650,000 | 34,800,000 | 463 | 308 | 0.601893846 | CA7,CDH16,CES2,CES3,CES4A,FAM96B,NAE1,PDP2,RRAD |
| 18 | 34,725,000 | 34,875,000 | 464 | 450 | 0.655335007 | CBFB,CDH16,CES2,CES3,CES4A,FAM96B,RRAD |
| 18 | 34,800,000 | 34,950,000 | 465 | 438 | 1.001159246 | C16orf70,CBFB,CES4A,E2F4,EXOC3L1,FBXL8,HSF4,KIAA0895L,NOL3,TRADD |
| 18 | 34,875,000 | 35,025,000 | 466 | 272 | 1.251103921 | C16orf70,E2F4,ELMO3,EXOC3L1,FBXL8,FHOD1,HSF4,KIAA0895L,LRR36,NOL3,PLEKHG4,SLC9A5,TMEM208,TRADD |
| 18 | 34,950,000 | 35,100,000 | 467 | 207 | 1.037461433 | E2F4,ELMO3,FHOD1,KCTD19,LRR36,NOL3,PLEKHG4,SLC9A5,TMEM208 |
| 18 | 35,025,000 | 35,175,000 | 468 | 241 | 0.84207642 | ATP6V0D1,HSD11B2,KCTD19,LRR36,PLEKHG4,TPPP3,ZDHHC1,ENSBTAG00000046690 |
| 18 | 35,100,000 | 35,250,000 | 469 | 252 | 0.566973765 | AGRP,ATP6V0D1,FAM65A,HSD11B2,LRR36,TPPP3,ZDHHC1,ENSBTAG00000046690 |
| 18 | 35,175,000 | 35,325,000 | 470 | 253 | 0.250959842 | AGRP,ATP6V0D1,CTCF,FAM65A,RLTPR |
| 18 | 35,250,000 | 35,400,000 | 471 | 257 | 0.080720204 | ACD,C16orf86,CTCF,ENKD1,FAM65A,GFOD2,PARD6A,RANBP10,RLTPR |
| 18 | 35,325,000 | 35,475,000 | 472 | 205 | -0.130782452 | ACD,C16orf86,CENPT,ENKD1,GFOD2,PARD6A,RANBP10,RLTPR,THAP11,TSNAXIP1 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|--|
| 18 | 35,400,000 | 35,550,000 | 473 | 188 | -0.324495271 | CENPT,EDC4,LCAT,NUTF2,PSKH1,PSMB10,RANBP10,SLC12A4,THAP11,TSNAXIP1 |
| 18 | 35,475,000 | 35,625,000 | 474 | 210 | -0.088473386 | DDX28,DPEP2,DPEP3,DUS2L,EDC4,LCAT,NUTF2,PSKH1,PSMB10,SLC12A4 |
| 18 | 35,550,000 | 35,700,000 | 475 | 206 | -0.397037126 | DDX28,DPEP2,DPEP3,DUS2L,NFATC3,SLC12A4 |
| 18 | 35,625,000 | 35,775,000 | 476 | 188 | -0.725745779 | DUS2L,ESRP2,NFATC3,PLA2G15,SLC7A6 |
| 18 | 35,700,000 | 35,850,000 | 477 | 180 | -1.59505692 | ESRP2,NFATC3,PLA2G15,PRMT7,SLC7A6,SLC7A6OS,SMPD3 |
| 18 | 35,775,000 | 35,925,000 | 478 | 255 | -1.350898712 | PRMT7,SLC7A6,SLC7A6OS,SMPD3 |
| 18 | 35,850,000 | 36,000,000 | 479 | 331 | -0.800775048 | SMPD3 |
| 18 | 35,925,000 | 36,075,000 | 480 | 411 | -0.948653707 | ZFP90 |
| 18 | 36,000,000 | 36,150,000 | 481 | 430 | -0.518975728 | CDH3,ZFP90 |
| 18 | 36,075,000 | 36,225,000 | 482 | 674 | -0.185082671 | CDH3,E-CADHERIN |
| 18 | 36,150,000 | 36,300,000 | 483 | 737 | -0.254976965 | E-CADHERIN,TANGO6 |
| 18 | 36,225,000 | 36,375,000 | 484 | 381 | -0.388936383 | E-CADHERIN,TANGO6,ENSBTAG00000047471 |
| 18 | 36,300,000 | 36,450,000 | 485 | 245 | -0.631547918 | HAS3,TANGO6,ENSBTAG00000047471 |
| 18 | 36,375,000 | 36,525,000 | 486 | 230 | -0.897824444 | CHTF8,CIRH1A,HAS3,SNTB2,TANGO6 |
| 18 | 36,450,000 | 36,600,000 | 487 | 214 | -0.203527476 | CHTF8,CIRH1A,HAS3,PDF,SNTB2,VPS4A |
| 18 | 36,525,000 | 36,675,000 | 488 | 213 | 0.906947644 | COG8,CYB5B,NIP7,PDF,SNTB2,TERF2,TMED6,VPS4A |
| 18 | 36,600,000 | 36,750,000 | 489 | 237 | 0.989434281 | COG8,CYB5B,NIP7,PDF,TERF2,TMED6 |
| 18 | 36,675,000 | 36,825,000 | 490 | 267 | -0.06720187 | CYB5B |
| 18 | 36,750,000 | 36,900,000 | 491 | 272 | -1.462998844 | NFAT5 |
| 18 | 36,825,000 | 36,975,000 | 492 | 466 | -1.152739861 | NFAT5,NOB1,NQO1,WWP2 |
| 18 | 36,900,000 | 37,050,000 | 493 | 520 | -0.534265905 | NOB1,NQO1,WWP2 |
| 18 | 36,975,000 | 37,125,000 | 494 | 369 | 0.205697217 | PSMD7,WWP2 |
| 18 | 37,050,000 | 37,200,000 | 495 | 314 | 0.338082662 | PSMD7,WWP2 |
| 18 | 37,125,000 | 37,275,000 | 496 | 285 | 0.459071127 | |
| 18 | 37,200,000 | 37,350,000 | 497 | 559 | 0.365401432 | |
| 18 | 37,275,000 | 37,425,000 | 498 | 542 | 0.105670805 | |
| 18 | 37,350,000 | 37,500,000 | 499 | 323 | 0.17002206 | |
| 18 | 37,425,000 | 37,575,000 | 500 | 420 | 0.230869698 | |
| 18 | 37,500,000 | 37,650,000 | 501 | 503 | -0.160076609 | |
| 18 | 37,575,000 | 37,725,000 | 502 | 493 | -1.033271207 | |
| 18 | 37,650,000 | 37,800,000 | 503 | 533 | -1.132002566 | |
| 18 | 37,725,000 | 37,875,000 | 504 | 740 | 0.168325422 | |
| 18 | 37,800,000 | 37,950,000 | 505 | 839 | 0.658717283 | |
| 18 | 37,875,000 | 38,025,000 | 506 | 844 | -0.068491976 | |
| 18 | 37,950,000 | 38,100,000 | 507 | 849 | -0.599615728 | |
| 18 | 38,025,000 | 38,175,000 | 508 | 717 | -0.06798863 | |
| 18 | 38,100,000 | 38,250,000 | 509 | 465 | 0.245866991 | |
| 18 | 38,175,000 | 38,325,000 | 510 | 334 | -0.075397884 | |
| 18 | 38,250,000 | 38,400,000 | 511 | 500 | 0.255943671 | ZFHX3 |
| 18 | 38,325,000 | 38,475,000 | 512 | 720 | -0.145062912 | ZFHX3 |
| 18 | 38,400,000 | 38,550,000 | 513 | 658 | -1.267936082 | ZFHX3 |
| 18 | 38,475,000 | 38,625,000 | 514 | 604 | -1.660863568 | ZFHX3 |
| 18 | 38,550,000 | 38,700,000 | 515 | 654 | -1.983180713 | |
| 18 | 38,625,000 | 38,775,000 | 516 | 600 | -1.618576647 | |
| 18 | 38,700,000 | 38,850,000 | 517 | 471 | -0.03370976 | |
| 18 | 38,775,000 | 38,925,000 | 518 | 374 | 0.420534353 | |
| 18 | 38,850,000 | 39,000,000 | 519 | 641 | 0.8268611 | |
| 18 | 38,925,000 | 39,075,000 | 520 | 731 | 0.77047501 | |
| 18 | 39,000,000 | 39,150,000 | 521 | 708 | 0.232393624 | DHX38,PMFBP1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 39,075,000 | 39,225,000 | 522 | 682 | 0.764399979 | DHODH,DHX38,HP,PKD1L3,PMFBP1,TXNL4B,ENSBTAG0000019887 |
| 18 | 39,150,000 | 39,300,000 | 523 | 880 | -0.477894291 | DHODH,DHX38,HP,PKD1L3,TXNL4B,ENSBTAG00000019887 |
| 18 | 39,225,000 | 39,375,000 | 524 | 822 | -1.241925894 | IST1,PKD1L3,ZNF821 |
| 18 | 39,300,000 | 39,450,000 | 525 | 328 | -0.598004484 | AP1G1,ATXN1L,IST1,PKD1L3,ZNF821,ENSBTAG00000047787 |
| 18 | 39,375,000 | 39,525,000 | 526 | 270 | -0.398897613 | AP1G1,ATXN1L,PHLPP2,ENSBTAG00000047787 |
| 18 | 39,450,000 | 39,600,000 | 527 | 313 | -0.406301116 | AP1G1,MARVELD3,PHLPP2,TAT |
| 18 | 39,525,000 | 39,675,000 | 528 | 469 | 0.141183719 | CHST4,MARVELD3,PHLPP2,TAT |
| 18 | 39,600,000 | 39,750,000 | 529 | 476 | 0.088381534 | CHST4,TAT,ZNF19 |
| 18 | 39,675,000 | 39,825,000 | 530 | 307 | -0.72245704 | CALB2,ZNF19,ENSBTAG00000023617 |
| 18 | 39,750,000 | 39,900,000 | 531 | 533 | -0.333506619 | CALB2,ZNF19,ENSBTAG00000023617 |
| 18 | 39,825,000 | 39,975,000 | 532 | 1130 | 1.098366792 | CALB2,CMTR2 |
| 18 | 39,900,000 | 40,050,000 | 533 | 1057 | 1.356055779 | CMTR2,HYDIN |
| 18 | 39,975,000 | 40,125,000 | 534 | 675 | -0.215255511 | HYDIN |
| 18 | 40,050,000 | 40,200,000 | 535 | 634 | -0.625978771 | HYDIN |
| 18 | 40,125,000 | 40,275,000 | 536 | 493 | 0.402789125 | HYDIN |
| 18 | 40,200,000 | 40,350,000 | 537 | 742 | 0.973952615 | HYDIN |
| 18 | 40,275,000 | 40,425,000 | 538 | 874 | 0.719108022 | HYDIN,PLEKHF1,POP4 |
| 18 | 40,350,000 | 40,500,000 | 539 | 652 | -0.985941188 | PLEKHF1,POP4,ENSBTAG00000020434 |
| 18 | 40,425,000 | 40,575,000 | 540 | 675 | -2.845549535 | CCNE1,PLEKHF1,ENSBTAG00000020434 |
| 18 | 40,500,000 | 40,650,000 | 541 | 545 | -1.836089366 | CCNE1 |
| 18 | 40,575,000 | 40,725,000 | 542 | 550 | -0.04291427 | URI1 |
| 18 | 40,650,000 | 40,800,000 | 543 | 510 | -0.029654255 | URI1 |
| 18 | 40,725,000 | 40,875,000 | 544 | 427 | 0.6239704 | URI1 |
| 18 | 40,800,000 | 40,950,000 | 545 | 659 | 0.748628141 | |
| 18 | 40,875,000 | 41,025,000 | 546 | 628 | 0.334724145 | |
| 18 | 40,950,000 | 41,100,000 | 547 | 498 | -1.389598035 | |
| 18 | 41,025,000 | 41,175,000 | 548 | 637 | -1.551897735 | ZNF536 |
| 18 | 41,100,000 | 41,250,000 | 549 | 747 | -0.728651171 | ZNF536 |
| 18 | 41,175,000 | 41,325,000 | 550 | 806 | -0.050672775 | ZNF536 |
| 18 | 41,250,000 | 41,400,000 | 551 | 845 | 0.625588641 | |
| 18 | 41,325,000 | 41,475,000 | 552 | 910 | 0.758247636 | |
| 18 | 41,400,000 | 41,550,000 | 553 | 1144 | 0.804907639 | |
| 18 | 41,475,000 | 41,625,000 | 554 | 1101 | 0.832718206 | |
| 18 | 41,550,000 | 41,700,000 | 555 | 865 | 0.420675588 | |
| 18 | 41,625,000 | 41,775,000 | 556 | 953 | -0.687485531 | |
| 18 | 41,700,000 | 41,850,000 | 557 | 821 | -1.152616494 | |
| 18 | 41,775,000 | 41,925,000 | 558 | 411 | -0.443746313 | |
| 18 | 41,850,000 | 42,000,000 | 559 | 415 | 0.616509637 | TSHZ3 |
| 18 | 41,925,000 | 42,075,000 | 560 | 524 | 0.203100751 | TSHZ3 |
| 18 | 42,000,000 | 42,150,000 | 561 | 517 | 0.198047821 | |
| 18 | 42,075,000 | 42,225,000 | 562 | 498 | -1.270306466 | |
| 18 | 42,150,000 | 42,300,000 | 563 | 554 | -0.580011323 | |
| 18 | 42,225,000 | 42,375,000 | 564 | 841 | 0.715603198 | |
| 18 | 42,300,000 | 42,450,000 | 565 | 695 | 0.333825419 | |
| 18 | 42,375,000 | 42,525,000 | 566 | 367 | -1.278143759 | |
| 18 | 42,450,000 | 42,600,000 | 567 | 529 | 0.597425979 | |
| 18 | 42,525,000 | 42,675,000 | 568 | 797 | 0.741723509 | |
| 18 | 42,600,000 | 42,750,000 | 569 | 827 | 0.21459884 | |
| 18 | 42,675,000 | 42,825,000 | 570 | 835 | 0.159742545 | |
| 18 | 42,750,000 | 42,900,000 | 571 | 847 | 0.032186156 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 42,825,000 | 42,975,000 | 572 | 541 | -0.270148895 | |
| 18 | 42,900,000 | 43,050,000 | 573 | 371 | 0.148832674 | ZNF507 |
| 18 | 42,975,000 | 43,125,000 | 574 | 542 | 0.355216424 | DPY19L3,ZNF507 |
| 18 | 43,050,000 | 43,200,000 | 575 | 711 | 0.887496217 | DPY19L3,ZNF507 |
| 18 | 43,125,000 | 43,275,000 | 576 | 802 | 1.116952914 | ANKRD27,DPY19L3,PDCD5 |
| 18 | 43,200,000 | 43,350,000 | 577 | 746 | 1.03512286 | ANKRD27,NUDT19,PDCD5,RGS9BP |
| 18 | 43,275,000 | 43,425,000 | 578 | 842 | 1.089571594 | ANKRD27,NUDT19,RGS9BP,TDRD12 |
| 18 | 43,350,000 | 43,500,000 | 579 | 1312 | 1.124582616 | CEP89,SLC7A9,TDRD12 |
| 18 | 43,425,000 | 43,575,000 | 580 | 1358 | 0.432278066 | CEP89,FAAP24,RHPN2,SLC7A9,TDRD12 |
| 18 | 43,500,000 | 43,650,000 | 581 | 856 | -0.921237992 | CEP89,FAAP24,RHPN2 |
| 18 | 43,575,000 | 43,725,000 | 582 | 1060 | -0.365132782 | GPATCH1,RHPN2,WDR88 |
| 18 | 43,650,000 | 43,800,000 | 583 | 1322 | 0.247363114 | GPATCH1,WDR88 |
| 18 | 43,725,000 | 43,875,000 | 584 | 959 | 0.676886044 | LRP3,SLC7A10,WDR88 |
| 18 | 43,800,000 | 43,950,000 | 585 | 1086 | 0.707724338 | LRP3,SLC7A10 |
| 18 | 43,875,000 | 44,025,000 | 586 | 1555 | 0.608029196 | CEBPG,PEPD |
| 18 | 43,950,000 | 44,100,000 | 587 | 2070 | 0.177676982 | CEBPG,PEPD |
| 18 | 44,025,000 | 44,175,000 | 588 | 2201 | 0.416348933 | PEPD |
| 18 | 44,100,000 | 44,250,000 | 589 | 1716 | 0.690300382 | PEPD |
| 18 | 44,175,000 | 44,325,000 | 590 | 1361 | 0.651339078 | CHST8 |
| 18 | 44,250,000 | 44,400,000 | 591 | 1019 | 0.681643617 | CHST8 |
| 18 | 44,325,000 | 44,475,000 | 592 | 550 | 0.539801007 | CHST8,KCTD15 |
| 18 | 44,400,000 | 44,550,000 | 593 | 670 | 0.735649972 | KCTD15 |
| 18 | 44,475,000 | 44,625,000 | 594 | 902 | 0.931144711 | |
| 18 | 44,550,000 | 44,700,000 | 595 | 820 | 0.289670077 | |
| 18 | 44,625,000 | 44,775,000 | 596 | 944 | -1.143077956 | |
| 18 | 44,700,000 | 44,850,000 | 597 | 802 | -0.966596415 | LSM14A |
| 18 | 44,775,000 | 44,925,000 | 598 | 503 | 0.417271642 | KIAA0355,LSM14A |
| 18 | 44,850,000 | 45,000,000 | 599 | 451 | 0.175728749 | GPI,KIAA0355,LSM14A |
| 18 | 44,925,000 | 45,075,000 | 600 | 415 | -0.225224106 | GPI,KIAA0355,PDCD2L,UBA2 |
| 18 | 45,000,000 | 45,150,000 | 601 | 630 | -1.103671129 | GPI,PDCD2L,UBA2,WTIP |
| 18 | 45,075,000 | 45,225,000 | 602 | 1018 | -0.09998141 | WTIP |
| 18 | 45,150,000 | 45,300,000 | 603 | 1014 | 1.016094059 | |
| 18 | 45,225,000 | 45,375,000 | 604 | 707 | 0.983944402 | ENSBTAG00000045737 |
| 18 | 45,300,000 | 45,450,000 | 605 | 948 | 0.556520263 | ENSBTAG00000045737,ENSBTAG00000047571 |
| 18 | 45,375,000 | 45,525,000 | 606 | 1089 | 0.618656641 | ENSBTAG00000047571 |
| 18 | 45,450,000 | 45,600,000 | 607 | 768 | 0.878018762 | ENSBTAG00000047724 |
| 18 | 45,525,000 | 45,675,000 | 608 | 612 | 1.050501393 | ENSBTAG00000047724 |
| 18 | 45,600,000 | 45,750,000 | 609 | 504 | 0.823877149 | ZNF181,ZNF599,ENSBTAG00000023998 |
| 18 | 45,675,000 | 45,825,000 | 610 | 979 | 0.299266584 | ZNF181,ZNF599,ENSBTAG00000023998 |
| 18 | 45,750,000 | 45,900,000 | 611 | 1117 | 0.143114024 | ZNF792 |
| 18 | 45,825,000 | 45,975,000 | 612 | 867 | 0.188623426 | GRAMD1A,HPN,SCN1B,ZNF792 |
| 18 | 45,900,000 | 46,050,000 | 613 | 961 | 0.386286778 | FXYD3,GRAMD1A,HPN,LGI4,SCN1B |
| 18 | 45,975,000 | 46,125,000 | 614 | 1078 | 0.502301639 | FXYD1,FXYD3,FXYD5,FXYD7,HPN,LGI4 |
| 18 | 46,050,000 | 46,200,000 | 615 | 1004 | 0.500294824 | FAM187B,FXYD1,FXYD5,FXYD7,HAMP,LSR,MAG,USF2,ENSBTAG00000031420 |
| 18 | 46,125,000 | 46,275,000 | 616 | 724 | 0.406246392 | CD22,FAM187B,FFAR1,GPR41,HAMP,LSR,MAG,USF2,ENSBTAG00000031420 |
| 18 | 46,200,000 | 46,350,000 | 617 | 647 | 0.397856619 | CD22,FFAR1,GPR41,GPR43,KRTDAP,MAG,ENSBTAG00000045656 |
| 18 | 46,275,000 | 46,425,000 | 618 | 872 | 0.718202057 | ATP4A,DMKN,GAPDHS,GPR43,KRTDAP,SBSN,TMEM147,ENSBTAG00000045598,ENSBTAG00000045656 |
| 18 | 46,350,000 | 46,500,000 | 619 | 951 | 1.110625076 | ATP4A,DMKN,GAPDHS,SBSN,TMEM147,ENSBTAG00000045598 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 46,425,000 | 46,575,000 | 620 | 682 | 0.989391764 | ETV2,HAUS5,PNKD,RBM42 |
| 18 | 46,500,000 | 46,650,000 | 621 | 528 | -0.008593421 | ETV2,HAUS5,IGFLR1,KMT2B,LIN37,PNKD,PSENEEN,RBM42,U2AF1L4,UPK1A,ZBTB32 |
| 18 | 46,575,000 | 46,725,000 | 622 | 676 | -0.571054132 | ARHGAP33,HSPB6,IGFLR1,KMT2B,LIN37,NPHS1,PRODH2,PROSER3,PSENEEN,U2AF1L4,UPK1A,ZBTB32 |
| 18 | 46,650,000 | 46,800,000 | 623 | 648 | -0.446812191 | APLP1,ARHGAP33,HCST,HSPB6,KIRREL2,LIN37,NFKBID,NPHS1,PRODH2,PROSER3,TYROBP |
| 18 | 46,725,000 | 46,875,000 | 624 | 596 | -0.268189266 | ALKBH6,APLP1,HCST,KIRREL2,LRFN3,NFKBID,NPHS1,SDHAF1,SYNE4,TYROBP |
| 18 | 46,800,000 | 46,950,000 | 625 | 931 | -2.979254809 | ALKBH6,CLIP3,LRFN3,SDHAF1,SYNE4,THAP8,WDR62 |
| 18 | 46,875,000 | 47,025,000 | 626 | 814 | -5.58776526 | ALKBH6,CAPNS1,CLIP3,COX7A1,OVOL3,POLR2I,TBCB,THAP8,WDR62,ZNF565 |
| 18 | 46,950,000 | 47,100,000 | 627 | 497 | -4.505054538 | CAPNS1,COX7A1,OVOL3,POLR2I,TBCB,WDR62,ZNF565,ZNF567,ENSBTAG00000031687 |
| 18 | 47,025,000 | 47,175,000 | 628 | 848 | 0.339327873 | ZNF382,ZNF461,ZNF565,ZNF567,ENSBTAG00000031687 |
| 18 | 47,100,000 | 47,250,000 | 629 | 798 | 0.229262794 | ZNF382,ZNF461,ZNF566,ZNF567,ENSBTAG00000033563 |
| 18 | 47,175,000 | 47,325,000 | 630 | 382 | 0.443449924 | ZNF382,ZNF546,ZNF566,ENSBTAG00000033563 |
| 18 | 47,250,000 | 47,400,000 | 631 | 381 | -0.217287898 | ZNF546,ZNF566,ZNF568 |
| 18 | 47,325,000 | 47,475,000 | 632 | 677 | 0.081186572 | ZNF546,ZNF568,ZNF585A,ZNF793,ZNF829 |
| 18 | 47,400,000 | 47,550,000 | 633 | 707 | 0.895358048 | ZNF383,ZNF568,ZNF585A,ZNF793,ZNF829 |
| 18 | 47,475,000 | 47,625,000 | 634 | 802 | 0.511853941 | ZNF383,ZNF527,ZNF569 |
| 18 | 47,550,000 | 47,700,000 | 635 | 871 | 0.103209763 | ZNF527,ZNF569,ZNF570 |
| 18 | 47,625,000 | 47,775,000 | 636 | 540 | 0.352522371 | ZNF345,ZNF420,ZNF569,ZNF570 |
| 18 | 47,700,000 | 47,850,000 | 637 | 636 | 0.546264809 | ZNF345,ZNF420 |
| 18 | 47,775,000 | 47,925,000 | 638 | 746 | 0.801291354 | ZNF345,ENSBTAG00000046367 |
| 18 | 47,850,000 | 48,000,000 | 639 | 784 | 1.186924279 | WDR87,ENSBTAG00000040318,ENSBTAG00000046367 |
| 18 | 47,925,000 | 48,075,000 | 640 | 1041 | 1.014133168 | WDR87,ENSBTAG00000040318 |
| 18 | 48,000,000 | 48,150,000 | 641 | 1297 | 0.40436702 | SIPA1L3 |
| 18 | 48,075,000 | 48,225,000 | 642 | 1337 | 0.449836916 | SIPA1L3 |
| 18 | 48,150,000 | 48,300,000 | 643 | 985 | 0.741076205 | DPF1,PPP1R14A,SIPA1L3,SPINT2 |
| 18 | 48,225,000 | 48,375,000 | 644 | 602 | -0.575537016 | C18H19orf33,DPF1,PPP1R14A,SIPA1L3,SPINT2,YIF1B |
| 18 | 48,300,000 | 48,450,000 | 645 | 645 | -1.116160024 | C18H19orf33,CATSPERG,KCNK6,SPINT2,YIF1B |
| 18 | 48,375,000 | 48,525,000 | 646 | 779 | 0.309938294 | CATSPERG,FAM98C,GGN,KCNK6,PSMD8,RASGRP4,RYR1,SPRED3 |
| 18 | 48,450,000 | 48,600,000 | 647 | 968 | 0.632989685 | FAM98C,GGN,PSMD8,RASGRP4,RYR1,SPRED3 |
| 18 | 48,525,000 | 48,675,000 | 648 | 822 | 0.673089243 | ACTN4,EIF3K,MAP4K1,RYR1 |
| 18 | 48,600,000 | 48,750,000 | 649 | 674 | 0.732958652 | ACTN4,CAPN12,EIF3K,MAP4K1,RYR1 |
| 18 | 48,675,000 | 48,825,000 | 650 | 848 | 0.026826499 | ACTN4,CAPN12,ECH1,HNRNPL,LGALS4,ENSBTAG00000031538,ENSBTAG00000046365 |
| 18 | 48,750,000 | 48,900,000 | 651 | 742 | -0.244287475 | CAPN12,CCER2,ECH1,HNRNPL,LGALS4,NFKBIB,RINL,SARS2,SIRT2,ENSBTAG00000031538,ENSBTAG00000046365 |
| 18 | 48,825,000 | 48,975,000 | 652 | 848 | -1.164457243 | CCER2,FBXO17,HNRNPL,MRPS12,NFKBIB,RINL,SARS2,SIRT2 |
| 18 | 48,900,000 | 49,050,000 | 653 | 879 | -1.46301808 | FBXO17,MRPS12,SARS2 |
| 18 | 48,975,000 | 49,125,000 | 654 | 808 | -2.679832515 | ENSBTAG00000012590 |
| 18 | 49,050,000 | 49,200,000 | 655 | 795 | -3.260298938 | NCCRP1,PAK4,SYCN,ENSBTAG00000012590 |
| 18 | 49,125,000 | 49,275,000 | 656 | 606 | -0.005251379 | NCCRP1,PAK4,SYCN,ENSBTAG00000047307 |
| 18 | 49,200,000 | 49,350,000 | 657 | 403 | 0.304708847 | GMFG,IFNL1,LRFN1,PAF1,SAMD4B,ENSBTAG00000047307 |
| 18 | 49,275,000 | 49,425,000 | 658 | 315 | 0.732839812 | GMFG,IFNL1,LRFN1,MED29,PAF1,PLEKHG2,RPS16,SAMD4B,SUPT5H,ZFP36 |
| 18 | 49,350,000 | 49,500,000 | 659 | 578 | 0.664254799 | DLL3,EID2,MED29,PAF1,PLEKHG2,RPS16,SAMD4B,SELV,SUPT5H,TIMM50,ZFP36 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 49,425,000 | 49,575,000 | 660 | 1044 | 0.050906067 | DLL3,EID2,SELV,SUPT5H,TIMM50,ENSBTAG00000047030 |
| 18 | 49,500,000 | 49,650,000 | 661 | 1472 | 0.385402002 | LEUTX,ENSBTAG00000015260,ENSBTAG00000047030 |
| 18 | 49,575,000 | 49,725,000 | 662 | 993 | 0.694280054 | DYRK1B,FBL,LEUTX,PSMC4,ENSBTAG00000008502,ENSBTAG00000015260 |
| 18 | 49,650,000 | 49,800,000 | 663 | 515 | 0.197469282 | DYRK1B,FBL,FCGBP,PSMC4,ENSBTAG00000008502,ENSBTAG00000018242 |
| 18 | 49,725,000 | 49,875,000 | 664 | 789 | 0.293902375 | FCGBP,MAP3K10,ENSBTAG00000018242 |
| 18 | 49,800,000 | 49,950,000 | 665 | 580 | 0.162682574 | AKT2,CNTD2,MAP3K10,TTC9B |
| 18 | 49,875,000 | 50,025,000 | 666 | 295 | 0.021430205 | AKT2,C19orf47,CNTD2,HIPK4,MAP3K10,PLD3,PRX,TTC9B |
| 18 | 49,950,000 | 50,100,000 | 667 | 424 | 0.648319713 | AKT2,BLVRB,C19orf47,HIPK4,PLD3,PRX,SERTAD1,SERTAD3,SPTBN4 |
| 18 | 50,025,000 | 50,175,000 | 668 | 403 | -0.236422413 | BLVRB,LTBP4,PRX,SERTAD1,SERTAD3,SHKBP1,SPTBN4 |
| 18 | 50,100,000 | 50,250,000 | 669 | 319 | -1.763314216 | LTBP4,NUMBL,SHKBP1,SPTBN4 |
| 18 | 50,175,000 | 50,325,000 | 670 | 398 | -1.444812612 | ADCK4,C19orf54,ITPKC,LTBP4,MIA,NUMBL,SNRPA,ENSBTAG00000009079 |
| 18 | 50,250,000 | 50,400,000 | 671 | 434 | -0.740901854 | ADCK4,C19orf54,CYP2F1,EGLN2,ITPKC,MIA,NUMBL,SNRPA,ENSBTAG00000001350,ENSBTAG00000009079 |
| 18 | 50,325,000 | 50,475,000 | 672 | 383 | -0.230813046 | CYP2F1,EGLN2,ENSBTAG00000001350,ENSBTAG00000003272,ENSBTAG00000047815 |
| 18 | 50,400,000 | 50,550,000 | 673 | 386 | -0.552775717 | ENSBTAG00000003272,ENSBTAG00000047815 |
| 18 | 50,475,000 | 50,625,000 | 674 | 383 | -0.124164272 | C9orf3,CYP2B6 |
| 18 | 50,550,000 | 50,700,000 | 675 | 442 | -0.007168473 | AXL,C9orf3,CYP2B6,CYP2S1 |
| 18 | 50,625,000 | 50,775,000 | 676 | 531 | 0.232411558 | AXL,CCDC97,CYP2S1,HNRNPUL1,TGFB1 |
| 18 | 50,700,000 | 50,850,000 | 677 | 554 | 0.846868814 | ATP5SL,AXL,B3GNT8,B9D2,BCKDHA,CCDC97,EXOSC5,HNRNPUL1,TGFB1,TMEM91 |
| 18 | 50,775,000 | 50,925,000 | 678 | 577 | 0.300482481 | ATP5SL,B3GNT8,B9D2,BCKDHA,ERICH4,EXOSC5,TGFB1,TMEM91 |
| 18 | 50,850,000 | 51,000,000 | 679 | 605 | 0.180507225 | ATP5SL,ERICH4 |
| 18 | 50,925,000 | 51,075,000 | 680 | 513 | 0.176895993 | |
| 18 | 51,000,000 | 51,150,000 | 681 | 525 | 0.256278284 | CEACAM1 |
| 18 | 51,075,000 | 51,225,000 | 682 | 530 | 0.155933402 | CEACAM1,HSL |
| 18 | 51,150,000 | 51,300,000 | 683 | 359 | -0.60513747 | CEACAM1,CNFN,HSL,MEGF8,TMEM145 |
| 18 | 51,225,000 | 51,375,000 | 684 | 228 | -0.92713362 | CIC,CNFN,ERF,GSK3A,HSL,MEGF8,PAFAH1B3,PRR19,TMEM145,ZNF526 |
| 18 | 51,300,000 | 51,450,000 | 685 | 195 | -3.439577749 | CIC,DEDD2,ERF,GSK3A,PAFAH1B3,PRR19,TMEM145,ZNF526 |
| 18 | 51,375,000 | 51,525,000 | 686 | 253 | -2.71674462 | DEDD2,GRIK5,POU2F2,ZNF526,ZNF574 |
| 18 | 51,450,000 | 51,600,000 | 687 | 428 | -0.790525785 | ATP1A3,GRIK5,POU2F2,ZNF574 |
| 18 | 51,525,000 | 51,675,000 | 688 | 634 | 0.285221341 | ARHGEF1,ATP1A3,GRIK5,RABAC1 |
| 18 | 51,600,000 | 51,750,000 | 689 | 748 | 0.086903687 | ARHGEF1,ATP1A3,CD79A,DMRTC2,LYPD4,RABAC1,RPS19,ENSBTAG00000006859 |
| 18 | 51,675,000 | 51,825,000 | 690 | 1542 | -0.105355213 | ARHGEF1,CD79A,DMRTC2,LYPD4,RPS19,ENSBTAG00000006859 |
| 18 | 51,750,000 | 51,900,000 | 691 | 1720 | -0.069202478 | CD177,CXCL17,TEX101,ENSBTAG00000006859 |
| 18 | 51,825,000 | 51,975,000 | 692 | 1043 | 0.002834056 | BSP1,BSP3,BSP5,CD177,CXCL17,TEX101 |
| 18 | 51,900,000 | 52,050,000 | 693 | 1053 | 0.105479479 | BSP1,BSP3,BSP5,ETHE1,LYPD3,PHLDB3,TEX101 |
| 18 | 51,975,000 | 52,125,000 | 694 | 1152 | -1.434327842 | ETHE1,LYPD3,PHLDB3,PINLYP,XRCC1,ZNF575 |
| 18 | 52,050,000 | 52,200,000 | 695 | 1127 | -1.245791526 | CADM4,ETHE1,IRGQ,PINLYP,XRCC1,ZNF428,ZNF575,ZNF576 |
| 18 | 52,125,000 | 52,275,000 | 696 | 1207 | 0.253826875 | CADM4,IRGC,IRGQ,PLAUR,SMG9,ZNF428,ZNF576,ENSBTAG00000023439,ENSBTAG00000030922 |
| 18 | 52,200,000 | 52,350,000 | 697 | 1360 | -0.407752713 | IRGC,KCNN4,LYPD5,PLAUR,SMG9,ENSBTAG00000023439,ENSBTAG00000030922 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 52,275,000 | 52,425,000 | 698 | 1074 | -0.07401997 | KCNN4,LYPD5,SMG9,ZNF283,ZNF404 |
| 18 | 52,350,000 | 52,500,000 | 699 | 999 | 1.18393296 | ZNF226,ZNF283,ZNF404,ZNF45 |
| 18 | 52,425,000 | 52,575,000 | 700 | 1220 | 1.250044139 | ZNF226,ZNF235,ZNF45 |
| 18 | 52,500,000 | 52,650,000 | 701 | 860 | 0.945181506 | ZNF180,ZNF226,ZNF235,ENSBTAG00000040209 |
| 18 | 52,575,000 | 52,725,000 | 702 | 749 | 0.388497219 | CEACAM20,ZNF180,ENSBTAG00000040209 |
| 18 | 52,650,000 | 52,800,000 | 703 | 786 | 0.608668978 | CEACAM20,IGSF23,ZNF180 |
| 18 | 52,725,000 | 52,875,000 | 704 | 497 | 0.784242761 | CEACAM19,IGSF23 |
| 18 | 52,800,000 | 52,950,000 | 705 | 545 | 1.045137462 | BCL3,CBLC,CEACAM16,CEACAM19 |
| 18 | 52,875,000 | 53,025,000 | 706 | 863 | 0.927226087 | BCAM,BCL3,CBLC,CEACAM16,PVRL2,TOMM40,ENSBTAG0000047345 |
| 18 | 52,950,000 | 53,100,000 | 707 | 872 | 0.806337904 | APOC2,APOC4,APOE,BCAM,CBLC,CLPTM1,PVRL2,RELB,TOMM40,ENSBTAG00000047345 |
| 18 | 53,025,000 | 53,175,000 | 708 | 775 | 1.208928716 | APOC2,APOC4,APOE,CLASRP,CLPTM1,GEMIN7,PPP1R37,RELB,TOMM40,ZNF296 |
| 18 | 53,100,000 | 53,250,000 | 709 | 730 | 1.070568728 | BLOC1S3,CLASRP,GEMIN7,NKPD1,PPP1R37,RELB,TRAPPC6A,ZNF296 |
| 18 | 53,175,000 | 53,325,000 | 710 | 777 | 0.299341195 | BLOC1S3,EXOC3L2,NKPD1,PPP1R37,TRAPPC6A,ENSBTAG0000030882 |
| 18 | 53,250,000 | 53,400,000 | 711 | 730 | 0.286844193 | CKM,EXOC3L2,MARK4,ENSBTAG00000030882 |
| 18 | 53,325,000 | 53,475,000 | 712 | 606 | 0.318471602 | CD3EAP,CKM,ERCC1,ERCC2,KLC3,MARK4,PPP1R13L |
| 18 | 53,400,000 | 53,550,000 | 713 | 482 | 0.263947604 | CD3EAP,ERCC1,ERCC2,FOSB,KLC3,MGC148938,OPA3,PPP1R13L,RTN2,VASP |
| 18 | 53,475,000 | 53,625,000 | 714 | 324 | 0.120279825 | FOSB,GPR4,MGC148938,OPA3,RTN2,VASP |
| 18 | 53,550,000 | 53,700,000 | 715 | 429 | 0.380475205 | EML2,GIPR,GPR4,OPA3,QPCTL,SNRPD2 |
| 18 | 53,625,000 | 53,775,000 | 716 | 491 | 0.223903245 | DMPK,DMWD,EML2,GIPR,MYPOP,QPCTL,SIX5,SNRPD2 |
| 18 | 53,700,000 | 53,850,000 | 717 | 680 | -0.039387726 | DMPK,DMWD,FOXA3,MYPOP,RSPH6A,SIX5,SYMPK |
| 18 | 53,775,000 | 53,925,000 | 718 | 656 | -0.107278738 | DMWD,FOXA3,NANOS2,NOVA2,RSPH6A,SYMPK |
| 18 | 53,850,000 | 54,000,000 | 719 | 517 | -0.023943708 | CCDC61,HIF3A,IGFL1,NANOS2,NOVA2,PGLYRP1 |
| 18 | 53,925,000 | 54,075,000 | 720 | 915 | 0.186487557 | CCDC61,HIF3A,IGFL1,PGLYRP1,PPP5C |
| 18 | 54,000,000 | 54,150,000 | 721 | 1202 | 0.71162607 | CCDC8,HIF3A,PNMAL1,PNMAL2,PPP5C,ENSBTAG00000046451 |
| 18 | 54,075,000 | 54,225,000 | 722 | 980 | 0.925222228 | CALM,CCDC8,DACT3,GNG8,PNMAL1,PNMAL2,PRKD2,PTGIR,ENSBTAG00000046451 |
| 18 | 54,150,000 | 54,300,000 | 723 | 709 | -0.931079879 | CALM,DACT3,FKRP,GNG8,PRKD2,PTGIR,STRN4 |
| 18 | 54,225,000 | 54,375,000 | 724 | 706 | -1.226626107 | AP2S1,FKRP,PRKD2,SLC1A5,STRN4 |
| 18 | 54,300,000 | 54,450,000 | 725 | 614 | 0.52837993 | AP2S1,ARHGAP35,SLC1A5 |
| 18 | 54,375,000 | 54,525,000 | 726 | 668 | 1.047732339 | ARHGAP35,NPAS1 |
| 18 | 54,450,000 | 54,600,000 | 727 | 854 | 0.972997585 | ARHGAP35,NPAS1,TMEM160,ZC3H4 |
| 18 | 54,525,000 | 54,675,000 | 728 | 757 | 0.628484875 | NPAS1,SAE1,TMEM160,ZC3H4 |
| 18 | 54,600,000 | 54,750,000 | 729 | 951 | 0.355727195 | CCDC9,SAE1 |
| 18 | 54,675,000 | 54,825,000 | 730 | 1005 | -0.074601705 | C5AR1,CCDC9,DHX34,GPR77 |
| 18 | 54,750,000 | 54,900,000 | 731 | 521 | -0.586967774 | C5AR1,DHX34,GPR77,KPTN,MEIS3,SLC8A2 |
| 18 | 54,825,000 | 54,975,000 | 732 | 331 | -0.022138596 | KPTN,MEIS3,NAPA,SLC8A2,ZNF541 |
| 18 | 54,900,000 | 55,050,000 | 733 | 552 | 0.893931568 | GLTSCR1,NAPA,ZNF541 |
| 18 | 54,975,000 | 55,125,000 | 734 | 604 | 0.762032889 | EHD2,GLTSCR1,GLTSCR2,SEPW1 |
| 18 | 55,050,000 | 55,200,000 | 735 | 578 | -0.05592724 | CRX,EHD2,GLTSCR1,GLTSCR2,SEPW1,SULT2A1,ENSBTAG0000039971 |
| 18 | 55,125,000 | 55,275,000 | 736 | 1017 | -0.895147443 | CRX,SULT2A1,ENSBTAG00000039971,ENSBTAG00000040054 |
| 18 | 55,200,000 | 55,350,000 | 737 | 1682 | -0.076932027 | C19orf68,CABP5,ELSPBP1,LIG1,ENSBTAG00000039971,ENSBTAG00000040054 |
| 18 | 55,275,000 | 55,425,000 | 738 | 1546 | 0.859895022 | C19orf68,CABP5,ELSPBP1,LIG1,ENSBTAG00000011119,ENSBTAG00000038322,ENSBTAG00000038986 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 55,350,000 | 55,500,000 | 739 | 972 | 0.375510424 | C19orf68,CCDC114,EMP3,TMEM143,ZNF114,ENSBTAG000001119,ENSBTAG00000038322,ENSBTAG00000038986 |
| 18 | 55,425,000 | 55,575,000 | 740 | 694 | -0.506975213 | CCDC114,EMP3,GRIN2D,GRWD1,KDEL1R1,SYNGR4,TMEM143,ZNF114 |
| 18 | 55,500,000 | 55,650,000 | 741 | 726 | -0.320125953 | CYTH2,GRIN2D,GRWD1,KCNJ14,KDEL1R1,LMTK3,SYNGR4,TMEM143 |
| 18 | 55,575,000 | 55,725,000 | 742 | 845 | 0.30638361 | CYTH2,DBP,FAM83E,GRWD1,KCNJ14,LMTK3,RPL18,SPACA4,SPHK2,SULT2B1 |
| 18 | 55,650,000 | 55,800,000 | 743 | 524 | 0.333194627 | CA11,DBP,FAM83E,FUT2,NTN5,RPL18,SPACA4,SPHK2,SULT2B1,ENSBTAG00000014514 |
| 18 | 55,725,000 | 55,875,000 | 744 | 295 | -0.429392046 | BCAT2,CA11,DBP,FGF21,FUT1,FUT2,IZUMO1,MAMSTR,NTN5,RASIP1,ENSBTAG00000014514 |
| 18 | 55,800,000 | 55,950,000 | 745 | 314 | -1.256442221 | BCAT2,FGF21,FUT1,HSD17B14,IZUMO1,MAMSTR,NUCB1,PLEKHA4,PPP1R15A,RASIP1,TULP2 |
| 18 | 55,875,000 | 56,025,000 | 746 | 459 | 0.323437017 | BAX,BCAT2,DHDH,FTL,GYS1,HSD17B14,NUCB1,PLEKHA4,PPP1R15A,RUVBL2,TULP2 |
| 18 | 55,950,000 | 56,100,000 | 747 | 423 | 0.992730581 | BAX,DHDH,FTL,GYS1,KCNA7,LHB,LIN7B,NTF4,NUCB1,PPFIA3,RUVBL2,SNRNP70 |
| 18 | 56,025,000 | 56,175,000 | 748 | 208 | 0.573919925 | HRC,KCNA7,LHB,LIN7B,NTF4,PPFIA3,RUVBL2,SNRNP70,TRPM4 |
| 18 | 56,100,000 | 56,250,000 | 749 | 347 | 1.107252437 | HRC,PPFIA3,SLC6A16,TRPM4,ENSBTAG00000030502,ENSBTAG00000030505 |
| 18 | 56,175,000 | 56,325,000 | 750 | 566 | 1.018971283 | CCDC155,CD37,DKKL1,SLC6A16,TEAD2,ENSBTAG00000030502,ENSBTAG00000030505 |
| 18 | 56,250,000 | 56,400,000 | 751 | 613 | 0.476579289 | ALDH16A1,CCDC155,CD37,DKKL1,FLT3LG,PIH1D1,PTH2,RPL13A,SLC17A7,SLC6A16,TEAD2 |
| 18 | 56,325,000 | 56,475,000 | 752 | 440 | 0.437601703 | ALDH16A1,CCDC155,FCGRT,FLT3LG,NOSIP,PIH1D1,PRR12,PRRG2,PTH2,RCN3,RPL13A,RPS11,SLC17A7 |
| 18 | 56,400,000 | 56,550,000 | 753 | 285 | 0.995795079 | BCL2L12,CPT1C,FCGRT,HRMT1L2,IRF3,NOSIP,PRR12,PRRG2,RCN3,RPS11,RRAS,SCAF1 |
| 18 | 56,475,000 | 56,625,000 | 754 | 277 | 0.570704221 | AP2A1,BCL2L12,CPT1C,FUZ,HRMT1L2,IRF3,PRR12,RRAS,SCAF1,TSKS |
| 18 | 56,550,000 | 56,700,000 | 755 | 270 | 0.104342978 | AKT1S1,AP2A1,CPT1C,FUZ,IL4I1,MED25,PNKP,PTOV1,TBC1D17,TSKS |
| 18 | 56,625,000 | 56,775,000 | 756 | 464 | 0.823428509 | AKT1S1,ATF5,FUZ,IL4I1,MED25,PNKP,PTOV1,TBC1D17,VRK3,ENSBTAG00000016997 |
| 18 | 56,700,000 | 56,850,000 | 757 | 806 | 1.105826363 | ATF5,C18H19ORF41,IL4I1,VRK3,ZNF473,ENSBTAG00000016997 |
| 18 | 56,775,000 | 56,925,000 | 758 | 1208 | 1.048977306 | C18H19ORF41,MYH14,VRK3,ZNF473 |
| 18 | 56,850,000 | 57,000,000 | 759 | 968 | 0.805920108 | KCNC3,MYH14,NAPSA,NR1H2,ENSBTAG00000048283 |
| 18 | 56,925,000 | 57,075,000 | 760 | 662 | 0.296628556 | EMC10,FAM71E1,KCNC3,MYBPC2,MYH14,NAPSA,NR1H2,POLD1,ENSBTAG00000043953,ENSBTAG00000048283 |
| 18 | 57,000,000 | 57,150,000 | 761 | 836 | 0.304138994 | ASPDH,EMC10,FAM71E1,JOSD2,LRRC4B,MYBPC2,NR1H2,POLD1,ENSBTAG00000043953 |
| 18 | 57,075,000 | 57,225,000 | 762 | 838 | 0.372498775 | ASPDH,C19orf81,EMC10,JOSD2,LRRC4B,SHANK1,SYT3 |
| 18 | 57,150,000 | 57,300,000 | 763 | 1004 | 0.111256311 | C19orf81,CLEC11A,SHANK1,SYT3 |
| 18 | 57,225,000 | 57,375,000 | 764 | 1150 | 0.130367687 | ACPT,CLEC11A,KLK1,KLK15,KLK4,MGC137708,SHANK1 |
| 18 | 57,300,000 | 57,450,000 | 765 | 1195 | 0.755113773 | ACPT,KLK1,KLK10,KLK15,KLK4,KLK5,KLK6,KLK7,KLK8,KLK9,MGC137708 |
| 18 | 57,375,000 | 57,525,000 | 766 | 1142 | 1.087340164 | CTU1,KLK10,KLK11,KLK12,KLK13,KLK14,KLK5,KLK6,KLK7,KLK8,KLK9 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 57,450,000 | 57,600,000 | 767 | 1287 | 0.763880159 | CEACAM18,CTU1,KLK10,KLK11,KLK12,KLK13,KLK14,ENSBTAG00000004608,ENSBTAG000000037537 |
| 18 | 57,525,000 | 57,675,000 | 768 | 1776 | -0.146710897 | CEACAM18,ENSBTAG00000004608,ENSBTAG000000030440,ENSBTAG000000037537,ENSBTAG000000037699,ENSBTAG000000037710,ENSBTAG000000047301 |
| 18 | 57,600,000 | 57,750,000 | 769 | 2096 | -0.186540247 | SIGLECL1,ENSBTAG000000030440,ENSBTAG000000037699,ENSBTAG000000037710,ENSBTAG000000038526,ENSBTAG000000047301 |
| 18 | 57,675,000 | 57,825,000 | 770 | 1481 | -0.123307383 | CLDND2,ETFB,IGLON5,LIM2,NKG7,SIGLECL1,VSIG10L,ENSBTAG000000037699,ENSBTAG000000038526 |
| 18 | 57,750,000 | 57,900,000 | 771 | 1131 | 0.189918048 | CLDND2,ETFB,IGLON5,LIM2,NKG7,VSIG10L,ENSBTAG00000008851,ENSBTAG00000008852,ENSBTAG000000038526,ENSBTAG000000047675 |
| 18 | 57,825,000 | 57,975,000 | 772 | 1407 | 0.079232759 | LIM2,ZNF175,ENSBTAG00000008851,ENSBTAG00000008852,ENSBTAG000000023365,ENSBTAG000000035868,ENSBTAG000000045880,ENSBTAG000000047675 |
| 18 | 57,900,000 | 58,050,000 | 773 | 1309 | -0.0211125 | HAS1,ZNF175,ENSBTAG000000019227,ENSBTAG000000023365,ENSBTAG000000035868,ENSBTAG000000045880,ENSBTAG000000048204 |
| 18 | 57,975,000 | 58,125,000 | 774 | 1130 | 0.384086664 | HAS1,ENSBTAG000000014593,ENSBTAG000000019227,ENSBTAG000000035868,ENSBTAG000000039111,ENSBTAG000000039491,ENSBTAG000000048204 |
| 18 | 58,050,000 | 58,200,000 | 775 | 999 | 0.961365224 | ZNF432,ZNF613,ZNF614,ENSBTAG000000014593,ENSBTAG000000037906,ENSBTAG000000039111,ENSBTAG000000039491 |
| 18 | 58,125,000 | 58,275,000 | 776 | 1160 | 0.589439822 | ZNF350,ZNF432,ZNF613,ZNF614,ENSBTAG000000037906 |
| 18 | 58,200,000 | 58,350,000 | 777 | 1098 | 0.08679262 | ZNF350,ENSBTAG000000037906 |
| 18 | 58,275,000 | 58,425,000 | 778 | 1338 | 0.101717767 | |
| 18 | 58,350,000 | 58,500,000 | 779 | 2006 | 0.450114655 | PPP2R1A,VN1R4 |
| 18 | 58,425,000 | 58,575,000 | 780 | 1744 | 0.621868895 | PPP2R1A,VN1R4,ENSBTAG000000046472,ENSBTAG000000047617 |
| 18 | 58,500,000 | 58,650,000 | 781 | 1127 | 0.658046543 | ENSBTAG000000046472,ENSBTAG000000046510,ENSBTAG000000047617,ENSBTAG000000047761,ENSBTAG000000047791 |
| 18 | 58,575,000 | 58,725,000 | 782 | 1018 | 0.045803381 | ENSBTAG000000030470,ENSBTAG000000038903,ENSBTAG000000046510,ENSBTAG000000047761,ENSBTAG000000047791 |
| 18 | 58,650,000 | 58,800,000 | 783 | 1334 | 0.168657086 | ENSBTAG000000030470,ENSBTAG000000038125,ENSBTAG000000038903,ENSBTAG000000047761 |
| 18 | 58,725,000 | 58,875,000 | 784 | 1417 | 0.456412566 | ENSBTAG000000017651,ENSBTAG000000030470,ENSBTAG000000038125 |
| 18 | 58,800,000 | 58,950,000 | 785 | 891 | 0.591372921 | ENSBTAG000000017651 |
| 18 | 58,875,000 | 59,025,000 | 786 | 586 | 0.916311809 | ZNF493,ENSBTAG000000017651 |
| 18 | 58,950,000 | 59,100,000 | 787 | 634 | 0.731796897 | ZNF493,ENSBTAG000000033604 |
| 18 | 59,025,000 | 59,175,000 | 788 | 892 | 0.917400406 | ENSBTAG000000033604,ENSBTAG000000045571 |
| 18 | 59,100,000 | 59,250,000 | 789 | 1035 | 0.86602737 | ENSBTAG000000037440,ENSBTAG000000045571 |
| 18 | 59,175,000 | 59,325,000 | 790 | 769 | 0.461406905 | ENSBTAG000000037440 |
| 18 | 59,250,000 | 59,400,000 | 791 | 736 | 0.434324245 | ENSBTAG000000011052,ENSBTAG000000030454 |
| 18 | 59,325,000 | 59,475,000 | 792 | 920 | 0.157221404 | ENSBTAG000000011052,ENSBTAG000000030454 |
| 18 | 59,400,000 | 59,550,000 | 793 | 617 | -0.005064606 | ENSBTAG000000011052 |
| 18 | 59,475,000 | 59,625,000 | 794 | 516 | 0.702486229 | |
| 18 | 59,550,000 | 59,700,000 | 795 | 762 | 0.716336034 | ENSBTAG000000040411 |
| 18 | 59,625,000 | 59,775,000 | 796 | 769 | 0.854925157 | ENSBTAG000000040411 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 59,700,000 | 59,850,000 | 797 | 763 | 0.886694136 | ENSBTAG00000040411 |
| 18 | 59,775,000 | 59,925,000 | 798 | 766 | 0.629958914 | ENSBTAG00000015899,ENSBTAG00000021433 |
| 18 | 59,850,000 | 60,000,000 | 799 | 603 | 0.752264184 | ENSBTAG00000015899,ENSBTAG00000021433 |
| 18 | 59,925,000 | 60,075,000 | 800 | 508 | 1.153680311 | ENSBTAG00000011844,ENSBTAG00000021433 |
| 18 | 60,000,000 | 60,150,000 | 801 | 610 | 1.237879158 | ENSBTAG00000011844,ENSBTAG00000047053 |
| 18 | 60,075,000 | 60,225,000 | 802 | 458 | 1.14087629 | ENSBTAG00000011844,ENSBTAG00000047053 |
| 18 | 60,150,000 | 60,300,000 | 803 | 710 | -0.19947787 | ENSBTAG00000004925,ENSBTAG00000045985 |
| 18 | 60,225,000 | 60,375,000 | 804 | 1007 | 0.180190192 | ZNF677,ENSBTAG00000004925,ENSBTAG00000039969,ENSBTAG00000045985 |
| 18 | 60,300,000 | 60,450,000 | 805 | 1076 | -0.25887159 | ZNF677,ENSBTAG00000004925,ENSBTAG00000017993,ENSBTAG00000039969 |
| 18 | 60,375,000 | 60,525,000 | 806 | 1172 | -0.428533029 | ZNF519,ENSBTAG00000017993 |
| 18 | 60,450,000 | 60,600,000 | 807 | 969 | 0.31972002 | ZNF519,ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000039849 |
| 18 | 60,525,000 | 60,675,000 | 808 | 930 | 0.341122869 | ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000039849 |
| 18 | 60,600,000 | 60,750,000 | 809 | 960 | -0.170031184 | ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000045581 |
| 18 | 60,675,000 | 60,825,000 | 810 | 959 | 0.162340212 | ENSBTAG00000033642,ENSBTAG00000045581 |
| 18 | 60,750,000 | 60,900,000 | 811 | 1220 | 0.729906623 | ENSBTAG00000033642,ENSBTAG00000045581 |
| 18 | 60,825,000 | 60,975,000 | 812 | 1456 | 0.511651166 | ENSBTAG00000038755,ENSBTAG00000045581 |
| 18 | 60,900,000 | 61,050,000 | 813 | 992 | 0.460375616 | ZNF331,ENSBTAG00000015061,ENSBTAG00000038755,ENSBTAG00000045581 |
| 18 | 60,975,000 | 61,125,000 | 814 | 1025 | 0.769931759 | NLRP12,ZNF331,ENSBTAG00000015061,ENSBTAG00000038755 |
| 18 | 61,050,000 | 61,200,000 | 815 | 1719 | 0.173509341 | NLRP12 |
| 18 | 61,125,000 | 61,275,000 | 816 | 2290 | -0.096468312 | NLRP12,ENSBTAG00000000336,ENSBTAG00000040392,ENSBTAG00000046961 |
| 18 | 61,200,000 | 61,350,000 | 817 | 2100 | -0.565132516 | MGC157082,ENSBTAG00000000336,ENSBTAG00000040392,ENSBTAG00000046961 |
| 18 | 61,275,000 | 61,425,000 | 818 | 2301 | 0.080114112 | MGC157082,ENSBTAG00000009171,ENSBTAG00000014953 |
| 18 | 61,350,000 | 61,500,000 | 819 | 2279 | 0.36261353 | MGC157082,ENSBTAG00000009171,ENSBTAG00000014953 |
| 18 | 61,425,000 | 61,575,000 | 820 | 1712 | 0.035056865 | |
| 18 | 61,500,000 | 61,650,000 | 821 | 1859 | 0.733319376 | ENSBTAG00000014328,ENSBTAG00000047602 |
| 18 | 61,575,000 | 61,725,000 | 822 | 1366 | 0.661299835 | ENSBTAG00000002290,ENSBTAG00000009364,ENSBTAG00000014328,ENSBTAG00000047602 |
| 18 | 61,650,000 | 61,800,000 | 823 | 1253 | -1.525596177 | ENSBTAG00000002290,ENSBTAG00000009364 |
| 18 | 61,725,000 | 61,875,000 | 824 | 1832 | -2.443770757 | ENSBTAG00000013345,ENSBTAG00000015987 |
| 18 | 61,800,000 | 61,950,000 | 825 | 1703 | -2.143263906 | ENSBTAG00000013345,ENSBTAG00000015139,ENSBTAG00000015987 |
| 18 | 61,875,000 | 62,025,000 | 826 | 1694 | -0.115456504 | MYADM,ENSBTAG00000015139 |
| 18 | 61,950,000 | 62,100,000 | 827 | 1456 | 0.613328208 | CACNG7,CACNG8,MYADM,PRKCG,ENSBTAG00000015139 |
| 18 | 62,025,000 | 62,175,000 | 828 | 1414 | 0.526206452 | CACNG6,CACNG7,CACNG8,PRKCG,VSTM1 |
| 18 | 62,100,000 | 62,250,000 | 829 | 2129 | 0.719413983 | CACNG6,NLRP9,VSTM1,ENSBTAG00000023349 |
| 18 | 62,175,000 | 62,325,000 | 830 | 2080 | 0.90630892 | EPN1,NLRP9,ENSBTAG00000023349,ENSBTAG00000040294 |
| 18 | 62,250,000 | 62,400,000 | 831 | 1288 | 0.73342878 | CCDC106,EPN1,FIZ1,U2AF2,ZNF580,ZNF581,ZNF784,ENSBTAG00000037582,ENSBTAG00000040294 |
| 18 | 62,325,000 | 62,475,000 | 832 | 502 | -0.685986353 | CCDC106,FIZ1,NAT14,SBK2,SSC5D,U2AF2,ZNF580,ZNF581,ZNF784,ENSBTAG00000037582 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 62,400,000 | 62,550,000 | 833 | 290 | -0.676227707 | FIZ1,ISOC2,NAT14,RPL28,SBK2,SHISA7,SSC5D,UBE2S,ZNF628 |
| 18 | 62,475,000 | 62,625,000 | 834 | 364 | 0.574277978 | BRSK1,COX6B2,FAM71E2,IL11,ISOC2,RPL28,SHISA7,SUV420H2,TMEM150B,TMEM190,UBE2S,ZNF628 |
| 18 | 62,550,000 | 62,700,000 | 835 | 694 | 0.924543128 | BRSK1,COX6B2,FAM71E2,HSPBP1,IL11,PPP6R1,PTPRH,SUV420H2,TMEM150B,TMEM190,TMEM86B,ENSBTAG00000044492 |
| 18 | 62,625,000 | 62,775,000 | 836 | 872 | 0.949248732 | BRSK1,DNAAF3,EPS8L1,HSPBP1,PPP1R12C,PPP6R1,PTPRH,SYT5,TMEM86B,TNNI3,TNNT1,ENSBTAG00000044492 |
| 18 | 62,700,000 | 62,850,000 | 837 | 1381 | 0.820089806 | DNAAF3,EPS8L1,FCAR,KIR2DL5A,PPP1R12C,RDH13,SYT5,TNNI3,TNNT1 |
| 18 | 62,775,000 | 62,925,000 | 838 | 1552 | 0.439412338 | FCAR,KIR2DL5A,NCR1,RDH13,ENSBTAG00000045854,ENSBTAG00000047473,ENSBTAG00000047953,ENSBTAG00000048184 |
| 18 | 62,850,000 | 63,000,000 | 839 | 1382 | 0.144493962 | GP6,KIR2DS1,NCR1,ENSBTAG00000045854,ENSBTAG00000047473,ENSBTAG00000047953,ENSBTAG00000048184 |
| 18 | 62,925,000 | 63,075,000 | 840 | 1932 | 0.094836209 | GP6,KIR2DS1,ENSBTAG00000026080,ENSBTAG00000038797,ENSBTAG00000039413,ENSBTAG00000047953 |
| 18 | 63,000,000 | 63,150,000 | 841 | 1776 | -0.236187487 | CDC42EP5,LENG8,LENG9,TTYH1,ENSBTAG00000019547,ENSBTAG00000026080,ENSBTAG00000038797,ENSBTAG00000039413 |
| 18 | 63,075,000 | 63,225,000 | 842 | 1158 | -0.481486116 | CDC42EP5,LENG8,LENG9,LILRA4,TTYH1,ENSBTAG0000004043,ENSBTAG00000019547,ENSBTAG00000037830,ENSBTAG00000039892,ENSBTAG00000039932 |
| 18 | 63,150,000 | 63,300,000 | 843 | 699 | -0.501830679 | LILRA4,ENSBTAG0000000930,ENSBTAG0000004043,ENSBTAG00000019348,ENSBTAG00000019547,ENSBTAG00000037830,ENSBTAG00000039086,ENSBTAG00000039892,ENSBTAG00000039932,ENSBTAG00000048145 |
| 18 | 63,225,000 | 63,375,000 | 844 | 543 | -0.364197525 | ENSBTAG0000000930,ENSBTAG0000005841,ENSBTAG00000019348,ENSBTAG00000039086,ENSBTAG00000039691,ENSBTAG00000048145 |
| 18 | 63,300,000 | 63,450,000 | 845 | 1015 | -0.713997757 | CNOT3,LENG1,MBOAT7,PRPF31,RPS9,TMC4,TSEN34,ENSBTAG0000005841,ENSBTAG00000039691 |
| 18 | 63,375,000 | 63,525,000 | 846 | 1176 | -0.501477965 | CNOT3,LENG1,MBOAT7,NDUFA3,OSCAR,PRPF31,RPS9,TARM1,TFPT,TMC4,TSEN34,ENSBTAG00000038890 |
| 18 | 63,450,000 | 63,600,000 | 847 | 1172 | 0.366454281 | NDUFA3,OSCAR,PRPF31,TARM1,TFPT,ENSBTAG00000030360,ENSBTAG00000038416,ENSBTAG00000038890 |
| 18 | 63,525,000 | 63,675,000 | 848 | 1346 | 0.185789915 | NLRP13,NLRP5,NLRP8,ENSBTAG00000030360,ENSBTAG00000036215,ENSBTAG00000038416 |
| 18 | 63,600,000 | 63,750,000 | 849 | 1027 | 0.032711495 | NLRP13,NLRP5,NLRP8,ZNF444,ZNF787,ENSBTAG00000034302,ENSBTAG00000036215 |
| 18 | 63,675,000 | 63,825,000 | 850 | 1095 | 0.131973707 | NLRP5,ZNF444,ZNF787,ENSBTAG0000000688,ENSBTAG00000024895,ENSBTAG00000030344,ENSBTAG00000034302,ENSBTAG00000039081,ENSBTAG00000039628,ENSBTAG00000045803,ENSBTAG00000046087,ENSBTAG00000047236 |
| 18 | 63,750,000 | 63,900,000 | 851 | 1203 | -0.163801541 | ZNF667,ENSBTAG0000000688,ENSBTAG00000024895,ENSBTAG00000030344,ENSBTAG00000038022,ENSBTAG00000039081,ENSBTAG00000039628,ENSBTAG00000045803,ENSBTAG00000046087,ENSBTAG00000047236 |
| 18 | 63,825,000 | 63,975,000 | 852 | 826 | -0.791090609 | ZNF583,ZNF667,ENSBTAG00000030348,ENSBTAG00000037881,ENSBTAG00000038022,ENSBTAG00000046947 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 63,900,000 | 64,050,000 | 853 | 960 | 0.036859353 | ZFP28,ZNF583,ENSBTAG00000030348,ENSBTAG00000037881,ENSBTAG00000046101,ENSBTAG00000046947 |
| 18 | 63,975,000 | 64,125,000 | 854 | 1361 | 0.554015337 | ZFP28,ENSBTAG00000025288,ENSBTAG00000030348,ENSBTAG00000046101 |
| 18 | 64,050,000 | 64,200,000 | 855 | 1350 | 0.724283975 | ZFP28,ZIM2,ENSBTAG00000025288,ENSBTAG00000038911,ENSBTAG00000045731 |
| 18 | 64,125,000 | 64,275,000 | 856 | 977 | 0.649447138 | MGC157368,PEG3,ZIM2,ENSBTAG00000038326,ENSBTAG00000038911,ENSBTAG00000045731 |
| 18 | 64,200,000 | 64,350,000 | 857 | 580 | 0.22699652 | MGC157368,PEG3,ENSBTAG00000038326 |
| 18 | 64,275,000 | 64,425,000 | 858 | 581 | 0.622943674 | PEG3 |
| 18 | 64,350,000 | 64,500,000 | 859 | 646 | 0.113482035 | |
| 18 | 64,425,000 | 64,575,000 | 860 | 904 | 0.035173375 | |
| 18 | 64,500,000 | 64,650,000 | 861 | 1437 | 0.60610332 | ENSBTAG00000003261,ENSBTAG00000038926 |
| 18 | 64,575,000 | 64,725,000 | 862 | 1653 | 1.029157303 | ZNF304,ENSBTAG00000003261,ENSBTAG00000037721,ENSBTAG00000038926 |
| 18 | 64,650,000 | 64,800,000 | 863 | 1704 | 1.104321626 | ZNF304,ENSBTAG00000011262,ENSBTAG00000037375,ENSBTAG00000037721,ENSBTAG00000039341 |
| 18 | 64,725,000 | 64,875,000 | 864 | 1675 | 0.778204521 | ZNF772,ENSBTAG00000000195,ENSBTAG00000011262,ENSBTAG00000017613,ENSBTAG00000037375,ENSBTAG00000039341 |
| 18 | 64,800,000 | 64,950,000 | 865 | 1660 | 0.353508537 | ZNF550,ZNF772,ENSBTAG00000000195,ENSBTAG00000017613 |
| 18 | 64,875,000 | 65,025,000 | 866 | 1704 | 0.315474686 | ZNF550,ZNF772,ENSBTAG00000017613,ENSBTAG00000037981,ENSBTAG00000048261 |
| 18 | 64,950,000 | 65,100,000 | 867 | 1658 | 0.621554262 | VN1R1,ZNF134,ENSBTAG00000037981,ENSBTAG00000048261 |
| 18 | 65,025,000 | 65,175,000 | 868 | 1708 | 0.476000574 | VN1R1,ZNF134,ENSBTAG00000038635 |
| 18 | 65,100,000 | 65,250,000 | 869 | 1720 | -0.021721448 | ZNF211,ENSBTAG00000038635,ENSBTAG00000040169 |
| 18 | 65,175,000 | 65,325,000 | 870 | 1533 | -0.471577333 | ZNF211,ZNF551,ZSCAN4,ENSBTAG00000040169 |
| 18 | 65,250,000 | 65,400,000 | 871 | 1366 | -0.58228791 | ZNF551,ZSCAN4 |
| 18 | 65,325,000 | 65,475,000 | 872 | 832 | -0.319989989 | ZNF814 |
| 18 | 65,400,000 | 65,550,000 | 873 | 667 | -1.076412035 | ZNF814,ENSBTAG00000038715,ENSBTAG00000040442 |
| 18 | 65,475,000 | 65,625,000 | 874 | 994 | -0.226730207 | ZNF154,ENSBTAG00000027787,ENSBTAG00000038715,ENSBTAG00000040442 |
| 18 | 65,550,000 | 65,700,000 | 875 | 1164 | 0.24269715 | ZNF135,ZNF154,ZNF606,ENSBTAG00000027787,ENSBTAG00000040442 |
| 18 | 65,625,000 | 65,775,000 | 876 | 945 | -0.34869296 | ZNF135,ZNF274,ZNF329,ZNF606 |
| 18 | 65,700,000 | 65,850,000 | 877 | 796 | -0.407451444 | A1BG,RPS5,ZNF274,ZNF329,ZNF8 |
| 18 | 65,775,000 | 65,925,000 | 878 | 617 | 0.089329419 | A1BG,RPS5,SLC27A5,ZNF132,ZNF446,ZNF584,ZNF8,ENSBTAG00000039453 |
| 18 | 65,850,000 | 66,000,000 | 879 | 283 | 0.632055087 | CENPBD1,CHMP2A,MZF1,RPS5,SLC27A5,TRIM28,UBE2M,ZNF132,ZNF446,ZNF584,ENSBTAG00000037595,ENSBTAG00000039453 |
| 18 | 65,925,000 | 66,004,023 | 880 | 149 | 0.271136877 | CENPBD1,CHMP2A,MZF1,SLC27A5,TRIM28,UBE2M,ENSBTAG00000037595 |
| 19 | 0 | 150,000 | 1 | 115 | 0.472795607 | ENSBTAG00000045560,ENSBTAG00000048260 |
| 19 | 75,000 | 225,000 | 2 | 145 | 0.550013892 | ENSBTAG00000045560,ENSBTAG00000048260 |
| 19 | 150,000 | 300,000 | 3 | 126 | 0.16142249 | ENSBTAG00000045560 |
| 19 | 225,000 | 375,000 | 4 | 188 | 0.76003576 | |
| 19 | 300,000 | 450,000 | 5 | 780 | 1.111386832 | |
| 19 | 375,000 | 525,000 | 6 | 1000 | 1.158298072 | |
| 19 | 450,000 | 600,000 | 7 | 712 | 0.939749994 | |
| 19 | 525,000 | 675,000 | 8 | 513 | 0.613534823 | CA10 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------------------------|
| 19 | 600,000 | 750,000 | 9 | 313 | 0.538324028 | CA10 |
| 19 | 675,000 | 825,000 | 10 | 436 | 1.0440603 | CA10 |
| 19 | 750,000 | 900,000 | 11 | 423 | 1.05953294 | CA10 |
| 19 | 825,000 | 975,000 | 12 | 745 | 0.819895068 | CA10 |
| 19 | 900,000 | 1,050,000 | 13 | 1195 | 1.043825009 | CA10 |
| 19 | 975,000 | 1,125,000 | 14 | 1022 | 0.721085222 | CA10 |
| 19 | 1,050,000 | 1,200,000 | 15 | 980 | 0.658312033 | CA10 |
| 19 | 1,125,000 | 1,275,000 | 16 | 1346 | 1.111012572 | CA10 |
| 19 | 1,200,000 | 1,350,000 | 17 | 1430 | 1.168348953 | CA10 |
| 19 | 1,275,000 | 1,425,000 | 18 | 940 | 0.379396071 | CA10 |
| 19 | 1,350,000 | 1,500,000 | 19 | 672 | -2.06985694 | CA10 |
| 19 | 1,425,000 | 1,575,000 | 20 | 1058 | -3.239884733 | CA10 |
| 19 | 1,500,000 | 1,650,000 | 21 | 1303 | -3.191217624 | |
| 19 | 1,575,000 | 1,725,000 | 22 | 1433 | -1.252394502 | |
| 19 | 1,650,000 | 1,800,000 | 23 | 1851 | -0.33098002 | |
| 19 | 1,725,000 | 1,875,000 | 24 | 2110 | -0.674149417 | |
| 19 | 1,800,000 | 1,950,000 | 25 | 1794 | -0.751037739 | |
| 19 | 1,875,000 | 2,025,000 | 26 | 1898 | 0.07391875 | |
| 19 | 1,950,000 | 2,100,000 | 27 | 2195 | 0.334605706 | |
| 19 | 2,025,000 | 2,175,000 | 28 | 1546 | 0.585663301 | |
| 19 | 2,100,000 | 2,250,000 | 29 | 955 | 0.256420646 | |
| 19 | 2,175,000 | 2,325,000 | 30 | 1053 | 0.675885708 | |
| 19 | 2,250,000 | 2,400,000 | 31 | 1184 | 0.303860719 | |
| 19 | 2,325,000 | 2,475,000 | 32 | 1354 | -0.083196507 | |
| 19 | 2,400,000 | 2,550,000 | 33 | 1963 | -2.383489074 | |
| 19 | 2,475,000 | 2,625,000 | 34 | 2166 | -2.699367595 | |
| 19 | 2,550,000 | 2,700,000 | 35 | 1832 | -1.771237534 | |
| 19 | 2,625,000 | 2,775,000 | 36 | 1671 | -2.393650444 | |
| 19 | 2,700,000 | 2,850,000 | 37 | 1780 | -1.91033893 | |
| 19 | 2,775,000 | 2,925,000 | 38 | 2063 | -1.550036175 | |
| 19 | 2,850,000 | 3,000,000 | 39 | 2357 | -1.391612228 | |
| 19 | 2,925,000 | 3,075,000 | 40 | 2274 | -0.826618967 | |
| 19 | 3,000,000 | 3,150,000 | 41 | 1976 | -0.405488858 | |
| 19 | 3,075,000 | 3,225,000 | 42 | 1988 | 0.421027974 | |
| 19 | 3,150,000 | 3,300,000 | 43 | 2020 | 0.914463133 | |
| 19 | 3,225,000 | 3,375,000 | 44 | 1915 | 1.155109523 | |
| 19 | 3,300,000 | 3,450,000 | 45 | 1855 | 0.463062555 | IGLV5-52 |
| 19 | 3,375,000 | 3,525,000 | 46 | 1801 | 0.417247508 | IGLV5-52 |
| 19 | 3,450,000 | 3,600,000 | 47 | 1599 | 0.565968628 | |
| 19 | 3,525,000 | 3,675,000 | 48 | 1472 | 0.732939262 | |
| 19 | 3,600,000 | 3,750,000 | 49 | 1344 | 0.711526642 | |
| 19 | 3,675,000 | 3,825,000 | 50 | 1218 | 0.268312113 | |
| 19 | 3,750,000 | 3,900,000 | 51 | 1096 | 0.144760496 | KIF2B |
| 19 | 3,825,000 | 3,975,000 | 52 | 743 | -1.78215878 | KIF2B,ENSBTAG00000036115 |
| 19 | 3,900,000 | 4,050,000 | 53 | 519 | -3.736629594 | ENSBTAG00000036115 |
| 19 | 3,975,000 | 4,125,000 | 54 | 692 | -1.828833585 | ENSBTAG00000036115 |
| 19 | 4,050,000 | 4,200,000 | 55 | 1027 | -0.649821268 | |
| 19 | 4,125,000 | 4,275,000 | 56 | 1276 | -0.666531556 | |
| 19 | 4,200,000 | 4,350,000 | 57 | 1059 | -0.112137872 | |
| 19 | 4,275,000 | 4,425,000 | 58 | 690 | 0.614855778 | |
| 19 | 4,350,000 | 4,500,000 | 59 | 1001 | 0.704962865 | |
| 19 | 4,425,000 | 4,575,000 | 60 | 1412 | 0.244698753 | |
| 19 | 4,500,000 | 4,650,000 | 61 | 1081 | -0.211637523 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 19 | 4,575,000 | 4,725,000 | 62 | 967 | -0.287742537 | |
| 19 | 4,650,000 | 4,800,000 | 63 | 1035 | -0.183190137 | |
| 19 | 4,725,000 | 4,875,000 | 64 | 707 | 0.286089623 | |
| 19 | 4,800,000 | 4,950,000 | 65 | 812 | 0.292549524 | |
| 19 | 4,875,000 | 5,025,000 | 66 | 802 | -0.202449943 | |
| 19 | 4,950,000 | 5,100,000 | 67 | 828 | -0.733940176 | ENSBTAG00000017221 |
| 19 | 5,025,000 | 5,175,000 | 68 | 1146 | -1.316895587 | ENSBTAG00000017221 |
| 19 | 5,100,000 | 5,250,000 | 69 | 851 | -1.993051439 | TOM1L1 |
| 19 | 5,175,000 | 5,325,000 | 70 | 766 | 0.553073927 | COX11,STXBP4,TOM1L1 |
| 19 | 5,250,000 | 5,400,000 | 71 | 1140 | 0.103707316 | COX11,STXBP4,TOM1L1 |
| 19 | 5,325,000 | 5,475,000 | 72 | 1116 | -0.71113419 | STXBP4 |
| 19 | 5,400,000 | 5,550,000 | 73 | 959 | -0.828040933 | STXBP4 |
| 19 | 5,475,000 | 5,625,000 | 74 | 749 | -0.935904301 | STXBP4 |
| 19 | 5,550,000 | 5,700,000 | 75 | 602 | -1.224171024 | HLF |
| 19 | 5,625,000 | 5,775,000 | 76 | 821 | -1.300996253 | HLF |
| 19 | 5,700,000 | 5,850,000 | 77 | 933 | -0.045559352 | HLF,MMD |
| 19 | 5,775,000 | 5,925,000 | 78 | 792 | 0.787772584 | MMD |
| 19 | 5,850,000 | 6,000,000 | 79 | 1233 | 0.771424603 | |
| 19 | 5,925,000 | 6,075,000 | 80 | 1624 | 0.556503702 | |
| 19 | 6,000,000 | 6,150,000 | 81 | 1221 | -0.863714192 | |
| 19 | 6,075,000 | 6,225,000 | 82 | 1384 | -0.577117922 | |
| 19 | 6,150,000 | 6,300,000 | 83 | 1244 | 0.123354362 | TMEM100 |
| 19 | 6,225,000 | 6,375,000 | 84 | 756 | -0.299896217 | TMEM100,ENSBTAG00000038770,ENSBTAG00000039563,ENSBTAG00000040237 |
| 19 | 6,300,000 | 6,450,000 | 85 | 683 | 0.509545381 | PCTP,ENSBTAG00000038770,ENSBTAG00000039563,ENSBTAG00000040237 |
| 19 | 6,375,000 | 6,525,000 | 86 | 945 | 0.97037647 | PCTP,ENSBTAG00000039563 |
| 19 | 6,450,000 | 6,600,000 | 87 | 1639 | 0.666046798 | PCTP |
| 19 | 6,525,000 | 6,675,000 | 88 | 1926 | 0.483806051 | |
| 19 | 6,600,000 | 6,750,000 | 89 | 1681 | 0.693205114 | |
| 19 | 6,675,000 | 6,825,000 | 90 | 1107 | 0.745089149 | |
| 19 | 6,750,000 | 6,900,000 | 91 | 694 | 0.029030578 | |
| 19 | 6,825,000 | 6,975,000 | 92 | 777 | -0.981251553 | |
| 19 | 6,900,000 | 7,050,000 | 93 | 1067 | -0.632527158 | |
| 19 | 6,975,000 | 7,125,000 | 94 | 909 | -0.859646196 | |
| 19 | 7,050,000 | 7,200,000 | 95 | 672 | -2.173476476 | |
| 19 | 7,125,000 | 7,275,000 | 96 | 697 | -3.59153978 | |
| 19 | 7,200,000 | 7,350,000 | 97 | 732 | -2.753186883 | ANKFN1 |
| 19 | 7,275,000 | 7,425,000 | 98 | 743 | -0.693340227 | ANKFN1 |
| 19 | 7,350,000 | 7,500,000 | 99 | 585 | 0.037465382 | ANKFN1,ENSBTAG00000038823 |
| 19 | 7,425,000 | 7,575,000 | 100 | 513 | 0.069395356 | ANKFN1,ENSBTAG00000038823 |
| 19 | 7,500,000 | 7,650,000 | 101 | 643 | 0.800344483 | NOG,ENSBTAG00000038823 |
| 19 | 7,575,000 | 7,725,000 | 102 | 833 | 0.791616506 | NOG |
| 19 | 7,650,000 | 7,800,000 | 103 | 803 | 0.252535541 | |
| 19 | 7,725,000 | 7,875,000 | 104 | 1024 | -1.32184809 | C17orf67 |
| 19 | 7,800,000 | 7,950,000 | 105 | 1032 | -1.759832353 | C17orf67,DGKE,TRIM25 |
| 19 | 7,875,000 | 8,025,000 | 106 | 859 | -0.317731258 | COIL,DGKE,SCPEP1,TRIM25 |
| 19 | 7,950,000 | 8,100,000 | 107 | 1453 | 0.711344118 | COIL,SCPEP1,TRIM25,ENSBTAG00000046559 |
| 19 | 8,025,000 | 8,175,000 | 108 | 1598 | 0.589318414 | SCPEP1,ENSBTAG00000046559 |
| 19 | 8,100,000 | 8,250,000 | 109 | 1233 | 0.445071508 | AKAP1 |
| 19 | 8,175,000 | 8,325,000 | 110 | 1003 | 0.438795147 | AKAP1 |
| 19 | 8,250,000 | 8,400,000 | 111 | 748 | -0.142267538 | |
| 19 | 8,325,000 | 8,475,000 | 112 | 489 | -0.01229502 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 8,400,000 | 8,550,000 | 113 | 762 | 0.04332164 | |
| 19 | 8,475,000 | 8,625,000 | 114 | 1151 | 0.300709652 | |
| 19 | 8,550,000 | 8,700,000 | 115 | 984 | 0.694882853 | KLF5,MSI2 |
| 19 | 8,625,000 | 8,775,000 | 116 | 780 | 0.244162434 | KLF5,MSI2 |
| 19 | 8,700,000 | 8,850,000 | 117 | 869 | -0.336860707 | CCDC182,MSI2 |
| 19 | 8,775,000 | 8,925,000 | 118 | 848 | -1.095897657 | CCDC182,CUEDC1,MRPS23 |
| 19 | 8,850,000 | 9,000,000 | 119 | 629 | -1.537727022 | CUEDC1,MRPS23 |
| 19 | 8,925,000 | 9,075,000 | 120 | 656 | -0.283132811 | CUEDC1,SRSF1,VEZF1 |
| 19 | 9,000,000 | 9,150,000 | 121 | 894 | -0.433186784 | DYNLL2,SRSF1,VEZF1 |
| 19 | 9,075,000 | 9,225,000 | 122 | 1066 | -0.443060421 | DYNLL2,ENSBTAG00000035001,ENSBTAG00000037424 ENSBTAG00000035001,ENSBTAG00000037424,ENSBTAG0 0000045606,ENSBTAG00000047689,ENSBTAG0000004787 0 |
| 19 | 9,150,000 | 9,300,000 | 123 | 1333 | -0.325772651 | ENSBTAG00000037424,ENSBTAG00000045606,ENSBTAG0 0000045769,ENSBTAG00000045921,ENSBTAG0000004768 9,ENSBTAG00000047770,ENSBTAG00000047870 LPO,MKS1,ENSBTAG00000045769,ENSBTAG00000045921, ENSBTAG00000047770 |
| 19 | 9,225,000 | 9,375,000 | 124 | 1740 | -0.131371231 | BZRAP1,LPO,MKS1,MPO |
| 19 | 9,300,000 | 9,450,000 | 125 | 1707 | 0.166633109 | BZRAP1,LPO,MPO,RNF43,SUPT4H1 |
| 19 | 9,375,000 | 9,525,000 | 126 | 1352 | 0.041688242 | HSF5,MTMR4,RNF43,SUPT4H1 |
| 19 | 9,450,000 | 9,600,000 | 127 | 1159 | 0.16451905 | C17orf47,HSF5,MTMR4,RNF43,SEPT4,TEX14 |
| 19 | 9,525,000 | 9,675,000 | 128 | 923 | 0.409096827 | C17orf47,MTMR4,SEPT4,TEX14 |
| 19 | 9,600,000 | 9,750,000 | 129 | 822 | 0.76311327 | MGC137055,RAD51C,TEX14,ENSBTAG00000046283 |
| 19 | 9,675,000 | 9,825,000 | 130 | 949 | 0.902764247 | MGC137055,RAD51C,TEX14,ENSBTAG00000046283 |
| 19 | 9,750,000 | 9,900,000 | 131 | 777 | 0.37391081 | RAD51C |
| 19 | 9,825,000 | 9,975,000 | 132 | 502 | -0.846763878 | |
| 19 | 9,900,000 | 10,050,000 | 133 | 335 | -0.292172791 | PPM1E,TRIM37 |
| 19 | 9,975,000 | 10,125,000 | 134 | 305 | -0.588573351 | PPM1E,TRIM37,ENSBTAG00000025310 |
| 19 | 10,050,000 | 10,200,000 | 135 | 420 | -1.010710238 | SKA2,TRIM37,ENSBTAG00000025310 |
| 19 | 10,125,000 | 10,275,000 | 136 | 469 | 0.208816874 | GDPD1,PRR11,SKA2,SMG8,TRIM37 |
| 19 | 10,200,000 | 10,350,000 | 137 | 390 | 1.149696235 | GDPD1,PRR11,SKA2,SMG8 |
| 19 | 10,275,000 | 10,425,000 | 138 | 552 | 0.32164645 | GDPD1,YPEL2 |
| 19 | 10,350,000 | 10,500,000 | 139 | 614 | -0.048265776 | YPEL2 |
| 19 | 10,425,000 | 10,575,000 | 140 | 456 | 0.364136698 | YPEL2 |
| 19 | 10,500,000 | 10,650,000 | 141 | 551 | -0.131762503 | DHX40 |
| 19 | 10,575,000 | 10,725,000 | 142 | 825 | -0.48764912 | CLTC,DHX40 |
| 19 | 10,650,000 | 10,800,000 | 143 | 918 | 0.023274159 | CLTC,DHX40,PTRH2,VMP1 |
| 19 | 10,725,000 | 10,875,000 | 144 | 720 | 0.617934604 | CLTC,PTRH2,VMP1 |
| 19 | 10,800,000 | 10,950,000 | 145 | 565 | -0.237349431 | RPS6KB1,TUBD1,VMP1 |
| 19 | 10,875,000 | 11,025,000 | 146 | 488 | -0.98870705 | RNFT1,RPS6KB1,TUBD1,VMP1 |
| 19 | 10,950,000 | 11,100,000 | 147 | 545 | -1.104700862 | RNFT1,RPS6KB1 |
| 19 | 11,025,000 | 11,175,000 | 148 | 525 | -1.02172414 | MED13 |
| 19 | 11,100,000 | 11,250,000 | 149 | 588 | 0.14733059 | MED13 |
| 19 | 11,175,000 | 11,325,000 | 150 | 695 | -0.075518646 | INTS2,MED13 |
| 19 | 11,250,000 | 11,400,000 | 151 | 563 | -0.302219652 | BRIP1,INTS2,TSPY-M2 |
| 19 | 11,325,000 | 11,475,000 | 152 | 655 | 0.011499391 | BRIP1,TSPY-M2,ENSBTAG00000047777 |
| 19 | 11,400,000 | 11,550,000 | 153 | 655 | 0.242405735 | BRIP1,ENSBTAG00000047777 |
| 19 | 11,475,000 | 11,625,000 | 154 | 539 | 0.386722118 | BRIP1 |
| 19 | 11,550,000 | 11,700,000 | 155 | 777 | 0.416467805 | |
| 19 | 11,625,000 | 11,775,000 | 156 | 980 | 0.883391395 | TBX4 |
| 19 | 11,700,000 | 11,850,000 | 157 | 827 | 1.151142469 | TBX2,TBX4 |
| 19 | 11,775,000 | 11,925,000 | 158 | 765 | 0.677836844 | |
| 19 | 11,850,000 | 12,000,000 | 159 | 881 | -0.178390834 | TBX2 |
| 19 | 11,925,000 | 12,075,000 | 160 | 763 | -0.550444328 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 12,000,000 | 12,150,000 | 161 | 505 | -0.280915723 | |
| 19 | 12,075,000 | 12,225,000 | 162 | 403 | 0.629810395 | |
| 19 | 12,150,000 | 12,300,000 | 163 | 411 | -0.337147506 | BCAS3,SNRPG |
| 19 | 12,225,000 | 12,375,000 | 164 | 566 | -0.662910187 | BCAS3,SNRPG |
| 19 | 12,300,000 | 12,450,000 | 165 | 1021 | 0.673861263 | BCAS3 |
| 19 | 12,375,000 | 12,525,000 | 166 | 1236 | 1.005461231 | BCAS3 |
| 19 | 12,450,000 | 12,600,000 | 167 | 728 | 0.868417815 | BCAS3,ENSBTAG00000033841,ENSBTAG00000045964 |
| 19 | 12,525,000 | 12,675,000 | 168 | 298 | 0.354366068 | BCAS3,PPM1D,ENSBTAG00000033841,ENSBTAG00000045964 |
| 19 | 12,600,000 | 12,750,000 | 169 | 669 | -0.368671786 | PPM1D |
| 19 | 12,675,000 | 12,825,000 | 170 | 801 | -0.896489218 | APPBP2,C17orf64 |
| 19 | 12,750,000 | 12,900,000 | 171 | 515 | -1.323277595 | APPBP2,C17orf64,ENSBTAG00000034433 |
| 19 | 12,825,000 | 12,975,000 | 172 | 487 | -0.830410331 | C17orf64,ENSBTAG00000034433 |
| 19 | 12,900,000 | 13,050,000 | 173 | 539 | -0.314630376 | ENSBTAG00000020089 |
| 19 | 12,975,000 | 13,125,000 | 174 | 601 | -0.357876253 | CA4,ENSBTAG00000020089 |
| 19 | 13,050,000 | 13,200,000 | 175 | 983 | 0.009431284 | CA4,MYO19,PIGW,ZNHIT3,ENSBTAG00000020089 |
| 19 | 13,125,000 | 13,275,000 | 176 | 1098 | 0.227466931 | DHRS11,GGNBP2,MRM1,MYO19,PIGW,ZNHIT3 |
| 19 | 13,200,000 | 13,350,000 | 177 | 1068 | 0.319759379 | DHRS11,GGNBP2,MRM1 |
| 19 | 13,275,000 | 13,425,000 | 178 | 1192 | 0.693923993 | |
| 19 | 13,350,000 | 13,500,000 | 179 | 1097 | 0.561558916 | |
| 19 | 13,425,000 | 13,575,000 | 180 | 1059 | 0.460466824 | ENSBTAG00000000560 |
| 19 | 13,500,000 | 13,650,000 | 181 | 714 | 0.649045161 | AATF,LHX1,ENSBTAG00000000560 |
| 19 | 13,575,000 | 13,725,000 | 182 | 439 | -0.336698784 | AATF,LHX1 |
| 19 | 13,650,000 | 13,800,000 | 183 | 625 | -0.299999151 | AATF,ACACA |
| 19 | 13,725,000 | 13,875,000 | 184 | 885 | 0.398287169 | AATF,ACACA |
| 19 | 13,800,000 | 13,950,000 | 185 | 750 | 0.835327969 | ACACA |
| 19 | 13,875,000 | 14,025,000 | 186 | 559 | 1.248897055 | ACACA,C17orf78 |
| 19 | 13,950,000 | 14,100,000 | 187 | 439 | 1.05291654 | ACACA,C17orf78,DUSP14,TADA2A |
| 19 | 14,025,000 | 14,175,000 | 188 | 404 | -2.163666812 | DUSP14,SYNRG,TADA2A |
| 19 | 14,100,000 | 14,250,000 | 189 | 525 | -1.469565542 | DDX52,DUSP14,SYNRG |
| 19 | 14,175,000 | 14,325,000 | 190 | 418 | 0.440345048 | DDX52,HNF1B,SYNRG |
| 19 | 14,250,000 | 14,400,000 | 191 | 382 | 0.61590327 | HNF1B |
| 19 | 14,325,000 | 14,475,000 | 192 | 802 | -0.033984122 | HEATR6,HNF1B |
| 19 | 14,400,000 | 14,550,000 | 193 | 1344 | 0.365823988 | HEATR6,ENSBTAG00000025258 |
| 19 | 14,475,000 | 14,625,000 | 194 | 1393 | 0.556841338 | HEATR6,WFDC18,ENSBTAG00000025258,ENSBTAG00000046944,ENSBTAG00000046975 |
| 19 | 14,550,000 | 14,700,000 | 195 | 1112 | -0.199535131 | CCL3,CCL4,WFDC18,ENSBTAG00000039504,ENSBTAG000046944,ENSBTAG00000046975 |
| 19 | 14,625,000 | 14,775,000 | 196 | 1274 | -0.069523148 | CCL3,CCL4,ENSBTAG00000003289,ENSBTAG00000010155,ENSBTAG00000039504 |
| 19 | 14,700,000 | 14,850,000 | 197 | 1411 | 0.193519429 | CCL14,CCL16,CCL5,HEATR9,ENSBTAG0000003289,ENSBTAG00000010155 |
| 19 | 14,775,000 | 14,925,000 | 198 | 830 | 0.653048475 | CCL14,CCL16,CCL5,HEATR9,MMP28,TAF15 |
| 19 | 14,850,000 | 15,000,000 | 199 | 362 | 1.235881421 | C17orf50,GAS2L2,HEATR9,MMP28,RASL10B,TAF15 |
| 19 | 14,925,000 | 15,075,000 | 200 | 373 | 0.947388325 | AP2B1,C17orf50,GAS2L2,MMP28,RASL10B |
| 19 | 15,000,000 | 15,150,000 | 201 | 577 | 0.537485531 | AP2B1,PEX12,SLFN14,ENSBTAG00000019437 |
| 19 | 15,075,000 | 15,225,000 | 202 | 729 | 0.131732259 | AP2B1,PEX12,SLFN14,ENSBTAG00000019437,ENSBTAG000025219 |
| 19 | 15,150,000 | 15,300,000 | 203 | 1215 | 0.736461472 | FNDC8,NLE1,RAD51D,UNC45B,ENSBTAG00000025219 |
| 19 | 15,225,000 | 15,375,000 | 204 | 1272 | 0.935192718 | FNDC8,NLE1,RAD51D,UNC45B |
| 19 | 15,300,000 | 15,450,000 | 205 | 919 | 0.303053088 | CCT6B,LIG3,RAD51D,RFFL,ZNF830 |
| 19 | 15,375,000 | 15,525,000 | 206 | 746 | 0.005461812 | CCT6B,LIG3,RFFL,ZNF830 |
| 19 | 15,450,000 | 15,600,000 | 207 | 633 | 0.180057861 | CCT6B |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 19 | 15,525,000 | 15,675,000 | 208 | 867 | 0.658924577 | |
| 19 | 15,600,000 | 15,750,000 | 209 | 1192 | 0.9480407 | |
| 19 | 15,675,000 | 15,825,000 | 210 | 1145 | -0.1064977 | TMEM132E |
| 19 | 15,750,000 | 15,900,000 | 211 | 781 | -0.65653923 | TMEM132E |
| 19 | 15,825,000 | 15,975,000 | 212 | 881 | 0.369193131 | |
| 19 | 15,900,000 | 16,050,000 | 213 | 1439 | 0.411857008 | |
| 19 | 15,975,000 | 16,125,000 | 214 | 1526 | 0.633485665 | CCL1 |
| 19 | 16,050,000 | 16,200,000 | 215 | 1295 | 0.719441673 | CCL1,CCL11,CCL8 |
| 19 | 16,125,000 | 16,275,000 | 216 | 1001 | 0.69911285 | CCL11,CCL2,CCL8 |
| 19 | 16,200,000 | 16,350,000 | 217 | 868 | 0.937614443 | CCL2 |
| 19 | 16,275,000 | 16,425,000 | 218 | 797 | 0.803897393 | ACCN1 |
| 19 | 16,350,000 | 16,500,000 | 219 | 860 | 0.275038027 | ACCN1 |
| 19 | 16,425,000 | 16,575,000 | 220 | 1257 | -0.588670649 | ACCN1 |
| 19 | 16,500,000 | 16,650,000 | 221 | 1180 | -0.361864455 | ACCN1 |
| 19 | 16,575,000 | 16,725,000 | 222 | 815 | -0.394947893 | ACCN1 |
| 19 | 16,650,000 | 16,800,000 | 223 | 998 | -0.895836263 | ACCN1 |
| 19 | 16,725,000 | 16,875,000 | 224 | 1551 | -0.326996542 | ACCN1 |
| 19 | 16,800,000 | 16,950,000 | 225 | 1274 | -0.290235684 | ACCN1 |
| 19 | 16,875,000 | 17,025,000 | 226 | 930 | 0.986123611 | ACCN1 |
| 19 | 16,950,000 | 17,100,000 | 227 | 1050 | 1.334886084 | ACCN1 |
| 19 | 17,025,000 | 17,175,000 | 228 | 861 | 1.244490995 | ACCN1 |
| 19 | 17,100,000 | 17,250,000 | 229 | 596 | 0.641810241 | ACCN1 |
| 19 | 17,175,000 | 17,325,000 | 230 | 836 | -1.18821601 | ACCN1 |
| 19 | 17,250,000 | 17,400,000 | 231 | 1236 | -0.537283326 | ACCN1 |
| 19 | 17,325,000 | 17,475,000 | 232 | 1215 | 0.532923825 | ACCN1 |
| 19 | 17,400,000 | 17,550,000 | 233 | 1120 | 0.364103419 | ACCN1 |
| 19 | 17,475,000 | 17,625,000 | 234 | 1014 | 0.042798262 | ACCN1,SPACA3,TMEM98 |
| 19 | 17,550,000 | 17,700,000 | 235 | 835 | 0.401633292 | ACCN1,MYO1D,SPACA3,TMEM98 |
| 19 | 17,625,000 | 17,775,000 | 236 | 961 | 0.588633603 | MYO1D,TMEM98 |
| 19 | 17,700,000 | 17,850,000 | 237 | 1130 | 0.628221765 | MYO1D |
| 19 | 17,775,000 | 17,925,000 | 238 | 1161 | 0.800189394 | MYO1D |
| 19 | 17,850,000 | 18,000,000 | 239 | 802 | 0.525292565 | MYO1D |
| 19 | 17,925,000 | 18,075,000 | 240 | 404 | -0.267238408 | CDK5R1,MYO1D,PSMD11 |
| 19 | 18,000,000 | 18,150,000 | 241 | 477 | 0.571891079 | C17orf75,CDK5R1,MYO1D,PSMD11,ZNF207 |
| 19 | 18,075,000 | 18,225,000 | 242 | 683 | 0.636194646 | C17orf75,RHBDL3,ZNF207 |
| 19 | 18,150,000 | 18,300,000 | 243 | 819 | 0.422772794 | C17orf75,RHBDL3,RHOT1 |
| 19 | 18,225,000 | 18,375,000 | 244 | 765 | 0.113434493 | ADAP2,RHOT1,RNF135 |
| 19 | 18,300,000 | 18,450,000 | 245 | 630 | 0.315459256 | ADAP2,ATAD5,C19H17orf42,RHOT1,RNF135 |
| 19 | 18,375,000 | 18,525,000 | 246 | 540 | 0.211091023 | ADAP2,ATAD5,C19H17orf42,CRLF3,SUZ12 |
| 19 | 18,450,000 | 18,600,000 | 247 | 439 | -0.882074236 | CRLF3,SUZ12,UTP6 |
| 19 | 18,525,000 | 18,675,000 | 248 | 380 | -0.716510352 | COPRS,SUZ12,UTP6 |
| 19 | 18,600,000 | 18,750,000 | 249 | 394 | -0.319522628 | COPRS |
| 19 | 18,675,000 | 18,825,000 | 250 | 384 | -1.470151872 | |
| 19 | 18,750,000 | 18,900,000 | 251 | 624 | -2.566182737 | RAB11FIP4 |
| 19 | 18,825,000 | 18,975,000 | 252 | 693 | -1.345021526 | NF1,RAB11FIP4 |
| 19 | 18,900,000 | 19,050,000 | 253 | 519 | -0.520878958 | EVI2A,EVI2B,NF1,OMG |
| 19 | 18,975,000 | 19,125,000 | 254 | 377 | -1.000626212 | EVI2A,EVI2B,NF1,OMG |
| 19 | 19,050,000 | 19,200,000 | 255 | 332 | -1.577608984 | NF1 |
| 19 | 19,125,000 | 19,275,000 | 256 | 468 | -0.384089722 | NF1 |
| 19 | 19,200,000 | 19,350,000 | 257 | 716 | -0.07910492 | NF1 |
| 19 | 19,275,000 | 19,425,000 | 258 | 1062 | -0.138820439 | WSB1 |
| 19 | 19,350,000 | 19,500,000 | 259 | 1039 | 0.679380162 | WSB1 |
| 19 | 19,425,000 | 19,575,000 | 260 | 821 | 0.945110777 | KSR1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 19,500,000 | 19,650,000 | 261 | 726 | 0.716362602 | KSR1,ENSBTAG00000046372 |
| 19 | 19,575,000 | 19,725,000 | 262 | 840 | 0.611292503 | KSR1,ENSBTAG00000046372 |
| 19 | 19,650,000 | 19,800,000 | 263 | 997 | 0.332064146 | INOS,LGALS9,ENSBTAG00000046372 |
| 19 | 19,725,000 | 19,875,000 | 264 | 1065 | -0.89022824 | INOS,LGALS9,ULBP27 |
| 19 | 19,800,000 | 19,950,000 | 265 | 1060 | -1.307046734 | INOS,ULBP27,ENSBTAG0000001836,ENSBTAG00000023970,ENSBTAG00000046595 |
| 19 | 19,875,000 | 20,025,000 | 266 | 913 | -0.857697056 | INOS,LYRM9,ULBP27,ENSBTAG0000001836,ENSBTAG000007238,ENSBTAG00000023970,ENSBTAG00000046595 |
| 19 | 19,950,000 | 20,100,000 | 267 | 1031 | -1.442023858 | INOS,LYRM9,ENSBTAG00000007238 |
| 19 | 20,025,000 | 20,175,000 | 268 | 1212 | -1.601384885 | LYRM9 |
| 19 | 20,100,000 | 20,250,000 | 269 | 865 | -0.465452258 | NLK |
| 19 | 20,175,000 | 20,325,000 | 270 | 580 | 0.030834503 | NLK |
| 19 | 20,250,000 | 20,400,000 | 271 | 657 | 0.372414582 | IFT20,NLK,POLDIP2,TMEM199,TMEM97,TNFAIP1 |
| 19 | 20,325,000 | 20,475,000 | 272 | 736 | -0.23578451 | IFT20,POLDIP2,SARM1,SEBOX,SLC46A1,TMEM199,TMEM97,TNFAIP1,VTN |
| 19 | 20,400,000 | 20,550,000 | 273 | 651 | -0.557880032 | FOXN1,SARM1,SEBOX,SLC13A2,SLC46A1,TMEM199,VTN |
| 19 | 20,475,000 | 20,625,000 | 274 | 525 | 0.739914148 | ALDOC,FOXN1,KIAA0100,PIGS,SLC13A2,SPAG5,UNC119,ENSBTAG00000011984 |
| 19 | 20,550,000 | 20,700,000 | 275 | 404 | 1.179645056 | ALDOC,FOXN1,KIAA0100,PIGS,PROCA1,RAB34,SDF2,SPAG5,SUPT6H,UNC119,ENSBTAG00000011984 |
| 19 | 20,625,000 | 20,775,000 | 276 | 274 | 0.190102484 | FAM222B,KIAA0100,NEK8,PROCA1,RAB34,RPL23A,SDF2,SUPT6H,TLCD1,TRAF4 |
| 19 | 20,700,000 | 20,850,000 | 277 | 395 | 0.384437801 | DHRS13,ERAL1,FAM222B,FLOT2,NEK8,PHF12,RAB34,RPL23A,TLCD1,TRAF4 |
| 19 | 20,775,000 | 20,925,000 | 278 | 540 | 0.233630013 | DHRS13,ERAL1,FAM222B,FLOT2,PHF12,SEZ6 |
| 19 | 20,850,000 | 21,000,000 | 279 | 733 | 0.19648455 | MYO18A,PHF12,PIPOX,SEZ6 |
| 19 | 20,925,000 | 21,075,000 | 280 | 755 | -0.778619285 | MYO18A,PIPOX,SEZ6 |
| 19 | 21,000,000 | 21,150,000 | 281 | 545 | -1.318326301 | COX7C,CRYBA1,MYO18A |
| 19 | 21,075,000 | 21,225,000 | 282 | 445 | 0.263246988 | COX7C,CRYBA1,MYO18A,NUFIP2 |
| 19 | 21,150,000 | 21,300,000 | 283 | 350 | 0.17616337 | CRYBA1,NUFIP2 |
| 19 | 21,225,000 | 21,375,000 | 284 | 259 | -0.012866192 | TAOK1 |
| 19 | 21,300,000 | 21,450,000 | 285 | 276 | 0.095786934 | ABHD15,ANKRD13B,CORO6,GIT1,SSH2,TAOK1,TP53I13 |
| 19 | 21,375,000 | 21,525,000 | 286 | 308 | 0.057438306 | ABHD15,ANKRD13B,CORO6,GIT1,SSH2,TP53I13 |
| 19 | 21,450,000 | 21,600,000 | 287 | 324 | 0.17878553 | SSH2 |
| 19 | 21,525,000 | 21,675,000 | 288 | 375 | 0.653919868 | |
| 19 | 21,600,000 | 21,750,000 | 289 | 544 | 0.362794478 | EFCAB5 |
| 19 | 21,675,000 | 21,825,000 | 290 | 709 | 0.287530887 | EFCAB5,NSRP1 |
| 19 | 21,750,000 | 21,900,000 | 291 | 585 | 0.426980333 | BLMH,EFCAB5,NSRP1,SLC6A4 |
| 19 | 21,825,000 | 21,975,000 | 292 | 334 | 0.195448784 | BLMH,NSRP1,SLC6A4,TMIGD1 |
| 19 | 21,900,000 | 22,050,000 | 293 | 378 | 0.177975112 | BLMH,CPD,TMIGD1 |
| 19 | 21,975,000 | 22,125,000 | 294 | 449 | 0.255226581 | CPD,GOSR1 |
| 19 | 22,050,000 | 22,200,000 | 295 | 453 | 0.094494965 | BHLHA9,CPD,GOSR1,TUSC5 |
| 19 | 22,125,000 | 22,275,000 | 296 | 511 | -0.799152544 | BHLHA9,GOSR1,TUSC5 |
| 19 | 22,200,000 | 22,350,000 | 297 | 511 | -1.354174709 | ABR |
| 19 | 22,275,000 | 22,425,000 | 298 | 671 | -0.314257755 | ABR |
| 19 | 22,350,000 | 22,500,000 | 299 | 510 | -0.901119402 | ABR,NXN,TIMM22 |
| 19 | 22,425,000 | 22,575,000 | 300 | 258 | -1.974316146 | ABR,NXN,TIMM22 |
| 19 | 22,500,000 | 22,650,000 | 301 | 646 | -0.485894621 | GLOD4,NXN,RNMTL1 |
| 19 | 22,575,000 | 22,725,000 | 302 | 746 | -0.448582407 | DBIL5,GEMIN4,GLOD4,MGC155170,NXN,RNMTL1,VPS53 |
| 19 | 22,650,000 | 22,800,000 | 303 | 518 | -0.318954077 | DBIL5,GEMIN4,GLOD4,MGC155170,VPS53 |
| 19 | 22,725,000 | 22,875,000 | 304 | 527 | 0.123260022 | C17orf97,FAM101B,RPH3AL,VPS53 |
| 19 | 22,800,000 | 22,950,000 | 305 | 991 | 0.144689095 | C17orf97,FAM101B,RPH3AL,VPS53 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 22,875,000 | 23,025,000 | 306 | 1112 | -0.159533051 | RPH3AL |
| 19 | 22,950,000 | 23,100,000 | 307 | 735 | -0.156126211 | DOC2B,RPH3AL,YWHAE |
| 19 | 23,025,000 | 23,175,000 | 308 | 570 | 0.770312824 | CRK,DOC2B,MYO1C,YWHAE |
| 19 | 23,100,000 | 23,250,000 | 309 | 485 | 0.795390972 | CRK,INPP5K,MYO1C,PITPNA,YWHAE |
| 19 | 23,175,000 | 23,325,000 | 310 | 517 | -2.407910419 | INPP5K,MYO1C,PITPNA,PRPF8,RILP,SCARF1,SLC43A2 |
| 19 | 23,250,000 | 23,400,000 | 311 | 534 | -5.549494177 | PRPF8,RILP,SCARF1,SLC43A2,TLCD2,WDR81 |
| 19 | 23,325,000 | 23,475,000 | 312 | 492 | -6.337387511 | PRPF8,SERPINF1,SERPINF2,SMYD4,TLCD2,WDR81 |
| 19 | 23,400,000 | 23,550,000 | 313 | 540 | -6.802606947 | RPA1,SERPINF1,SERPINF2,SMYD4,WDR81 |
| 19 | 23,475,000 | 23,625,000 | 314 | 729 | -3.944946697 | RPA1,RTN4RL1,SMYD4 |
| 19 | 23,550,000 | 23,700,000 | 315 | 620 | -0.155707654 | DPH1,HIC1,OVCA2,RTN4RL1,SMG6 |
| 19 | 23,625,000 | 23,775,000 | 316 | 449 | -0.745136217 | DPH1,HIC1,OVCA2,SMG6 |
| 19 | 23,700,000 | 23,850,000 | 317 | 477 | -1.657873685 | SMG6 |
| 19 | 23,775,000 | 23,925,000 | 318 | 412 | -1.848311756 | SGSM2,SMG6,SRR,TSR1 |
| 19 | 23,850,000 | 24,000,000 | 319 | 275 | 0.041764934 | METTL16,MNT,SGSM2,SMG6,SRR,TSR1 |
| 19 | 23,925,000 | 24,075,000 | 320 | 250 | 0.833726101 | METTL16,MNT |
| 19 | 24,000,000 | 24,150,000 | 321 | 262 | 0.323775616 | METTL16,PAFAH1B1 |
| 19 | 24,075,000 | 24,225,000 | 322 | 331 | 0.223056708 | CLUH,PAFAH1B1 |
| 19 | 24,150,000 | 24,300,000 | 323 | 509 | -2.574784573 | CLUH,PAFAH1B1 |
| 19 | 24,225,000 | 24,375,000 | 324 | 763 | -1.8649705 | |
| 19 | 24,300,000 | 24,450,000 | 325 | 1240 | -0.475552592 | RAP1GAP2 |
| 19 | 24,375,000 | 24,525,000 | 326 | 1788 | -1.598945204 | OR1G1,RAP1GAP2,ENSBTAG00000008324,ENSBTAG00000008481,ENSBTAG000000040362 |
| 19 | 24,450,000 | 24,600,000 | 327 | 2439 | -0.278445405 | OR1G1,RAP1GAP2,ENSBTAG00000008324,ENSBTAG00000008481,ENSBTAG00000019391,ENSBTAG00000039411,ENSBTAG000000039633,ENSBTAG000000040362,ENSBTAG00000048282 |
| 19 | 24,525,000 | 24,675,000 | 328 | 2120 | 0.433332525 | OR3A1,ENSBTAG00000018221,ENSBTAG00000019391,ENSBTAG000000039411,ENSBTAG000000039633,ENSBTAG00000047049,ENSBTAG00000048099,ENSBTAG00000048282 |
| 19 | 24,600,000 | 24,750,000 | 329 | 1071 | 0.390782774 | OR3A1,ENSBTAG00000018221,ENSBTAG00000032467,ENSBTAG000000037529,ENSBTAG00000038059,ENSBTAG00000045667,ENSBTAG00000046217,ENSBTAG00000046652,ENSBTAG00000046960,ENSBTAG00000047049,ENSBTAG00000048099 |
| 19 | 24,675,000 | 24,825,000 | 330 | 1342 | -0.426038023 | SPATA22,ENSBTAG00000032457,ENSBTAG00000032467,ENSBTAG00000037529,ENSBTAG00000038059,ENSBTAG00000045667,ENSBTAG00000045899,ENSBTAG00000046217,ENSBTAG00000046652,ENSBTAG00000046960,ENSBTAG00000047458 |
| 19 | 24,750,000 | 24,900,000 | 331 | 1330 | -0.707964602 | ASPA,SPATA22,TRPV3,ENSBTAG00000018880,ENSBTAG00000032457,ENSBTAG00000045899,ENSBTAG00000046217,ENSBTAG00000047458 |
| 19 | 24,825,000 | 24,975,000 | 332 | 674 | -0.270517305 | ASPA,CARKL,CTNS,TAX1BP3,TRPV3,ENSBTAG00000018880 |
| 19 | 24,900,000 | 25,050,000 | 333 | 774 | 0.006750627 | CARKL,CTNS,EMC6,GSG2,ITGAE,TAX1BP3,ENSBTAG00000015258,ENSBTAG00000018880 |
| 19 | 24,975,000 | 25,125,000 | 334 | 886 | -0.31411003 | C17orf85,CAMKK1,EMC6,GSG2,ITGAE,TAX1BP3,ENSBTAG00000015258 |
| 19 | 25,050,000 | 25,200,000 | 335 | 842 | -0.023599895 | ATP2A3,C17orf85,CAMKK1,P2RX1 |
| 19 | 25,125,000 | 25,275,000 | 336 | 855 | 0.013017918 | ATP2A3,CAMKK1,P2RX1,ZZEF1 |
| 19 | 25,200,000 | 25,350,000 | 337 | 822 | 0.154181942 | ANKFY1,CYB5D2,ZZEF1 |
| 19 | 25,275,000 | 25,425,000 | 338 | 612 | 0.988014691 | ANKFY1,CYB5D2,UBE2G1,ZZEF1 |
| 19 | 25,350,000 | 25,500,000 | 339 | 470 | 1.255965299 | ANKFY1,UBE2G1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 25,425,000 | 25,575,000 | 340 | 744 | 1.148927602 | SPNS3,UBE2G1 |
| 19 | 25,500,000 | 25,650,000 | 341 | 1059 | 0.87350244 | MYBBP1A,SPNS2,SPNS3 |
| 19 | 25,575,000 | 25,725,000 | 342 | 892 | 0.393788643 | GGT6,MYBBP1A,SMTNL2,SPNS2,SPNS3,TEKT1 |
| 19 | 25,650,000 | 25,800,000 | 343 | 722 | 0.248750049 | FBXO39,GGT6,MYBBP1A,SLC13A5,SMTNL2,TEKT1,XAF1 |
| 19 | 25,725,000 | 25,875,000 | 344 | 647 | 0.460520612 | FBXO39,KIAA0753,MED31,SLC13A5,TXNDC17,XAF1 |
| 19 | 25,800,000 | 25,950,000 | 345 | 599 | 0.749540142 | KIAA0753,MED31,PITPNM3,SLC13A5,TXNDC17,ENSBTAG0000047858 |
| 19 | 25,875,000 | 26,025,000 | 346 | 873 | 0.887177061 | FAM64A,KIAA0753,PITPNM3,ENSBTAG0000047858 |
| 19 | 25,950,000 | 26,100,000 | 347 | 956 | -0.460934151 | AIPL1,FAM64A,PITPNM3 |
| 19 | 26,025,000 | 26,175,000 | 348 | 916 | -1.264309949 | AIPL1,FAM64A |
| 19 | 26,100,000 | 26,250,000 | 349 | 913 | 0.117330962 | |
| 19 | 26,175,000 | 26,325,000 | 350 | 1068 | 0.656476248 | WSCD1 |
| 19 | 26,250,000 | 26,400,000 | 351 | 1484 | 0.329237328 | WSCD1 |
| 19 | 26,325,000 | 26,475,000 | 352 | 1374 | -0.10495503 | |
| 19 | 26,400,000 | 26,550,000 | 353 | 1129 | 0.054046476 | |
| 19 | 26,475,000 | 26,625,000 | 354 | 1405 | 1.015115585 | |
| 19 | 26,550,000 | 26,700,000 | 355 | 1359 | 1.174545708 | DERL2,MIS12,NLRP1,ENSBTAG00000025126 |
| 19 | 26,625,000 | 26,775,000 | 356 | 922 | 0.545172336 | C1QBP,DERL2,DHX33,MIS12,NLRP1,NUP88,RABEP1,RPAIN,ENSBTAG00000025126 |
| 19 | 26,700,000 | 26,850,000 | 357 | 539 | -0.898855286 | C1QBP,DHX33,NUP88,RABEP1,RPAIN |
| 19 | 26,775,000 | 26,925,000 | 358 | 553 | -1.226922954 | RABEP1,SCIMP |
| 19 | 26,850,000 | 27,000,000 | 359 | 526 | -0.040731205 | RABEP1,SCIMP,ZFP3,ENSBTAG00000013906 |
| 19 | 26,925,000 | 27,075,000 | 360 | 392 | 0.223598703 | CAMTA2,ENO3,INCA1,KIF1C,SPAG7,ZFP3,ENSBTAG00000013906 |
| 19 | 27,000,000 | 27,150,000 | 361 | 597 | 0.059604705 | C17orf107,CAMTA2,CHRNE,ENO3,GP1BA,INCA1,KIF1C,MINK1,PFN1,RNF167,SLC25A11,SPAG7 |
| 19 | 27,075,000 | 27,225,000 | 362 | 505 | -0.086199579 | C17orf107,CHRNE,ENO3,GLTPD2,GP1BA,MINK1,PFN1,PLD2,PSMB6,RNF167,SLC25A11,TM4SF5,VMO1 |
| 19 | 27,150,000 | 27,300,000 | 363 | 431 | 0.170802946 | ARRB2,CXCL16,GLTPD2,MED11,MINK1,PELP1,PLD2,PSMB6,TM4SF5,VMO1,ZMYND15 |
| 19 | 27,225,000 | 27,375,000 | 364 | 772 | 0.43396794 | ALOX12E,ALOX15,ARRB2,CXCL16,MED11,PELP1,ZMYND15 |
| 19 | 27,300,000 | 27,450,000 | 365 | 628 | 0.260677875 | ALOX12,ALOX12E,ALOX15,BAP18,BCL6B,PELP1,RNASEK |
| 19 | 27,375,000 | 27,525,000 | 366 | 367 | 0.086582377 | ALOX12,ASGR2,BAP18,BCL6B,CLEC10A,RNASEK,SLC16A11,SLC16A13 |
| 19 | 27,450,000 | 27,600,000 | 367 | 415 | -1.177561881 | ACADVL,ASGR1,ASGR2,BCL6B,CLEC10A,CTDNEP1,DLG4,DVL2,ELP5,GABARAP,PHF23,SLC16A11,SLC16A13 |
| 19 | 27,525,000 | 27,675,000 | 368 | 321 | -2.81940566 | ACADVL,ACAP1,ASGR1,CLDN7,CTDNEP1,DLG4,DVL2,EIF5A,ELP5,GABARAP,GPS2,PHF23,SLC2A4,YBX2,ENSBTAG0000010519,ENSBTAG00000045892 |
| 19 | 27,600,000 | 27,750,000 | 369 | 240 | -3.853960788 | ACAP1,CLDN7,EIF5A,ELP5,GPS2,KCTD11,NLGN2,PLSCR3,SLC2A4,SPEM1,TMEM102,TMEM256,TNK1,YBX2,ENSBTAG0000010519,ENSBTAG00000045892 |
| 19 | 27,675,000 | 27,825,000 | 370 | 279 | -1.75177583 | ACAP1,CHRN1,FGF11,KCTD11,NLGN2,PLSCR3,POLR2A,SPEM1,TMEM102,TMEM256,TNK1,ZBTB4 |
| 19 | 27,750,000 | 27,900,000 | 371 | 472 | 0.332103151 | CHRN1,FGF11,POLR2A,TNFSF12,ZBTB4 |
| 19 | 27,825,000 | 27,975,000 | 372 | 424 | 0.626452083 | ATP1B2,CD68,EIF4A1,FXR2,MPDU1,SAT2,SHBG,SOX15,TNFSF12,TNFSF13,ENSBTAG00000000131 |
| 19 | 27,900,000 | 28,050,000 | 373 | 299 | -0.486029387 | ATP1B2,CD68,DNAH2,EFNB3,EIF4A1,FXR2,MPDU1,SAT2,SHBG,SOX15,TNFSF12,TNFSF13,TP53,WRAP53,ENSBTAG0000000131 |
| 19 | 27,975,000 | 28,125,000 | 374 | 428 | -0.369753603 | ATP1B2,DNAH2,EFNB3,TP53,WRAP53 |
| 19 | 28,050,000 | 28,200,000 | 375 | 395 | -0.856649465 | CHD3,CYB5D1,DNAH2,KDM6B,NAA38,TMEM88 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 28,125,000 | 28,275,000 | 376 | 388 | -1.844499566 | CHD3,CNTROB,CYB5D1,DNAH2,GUCY2D,KCNAB3,KDM6B,NAA38,TMEM88,TRAPPC1 |
| 19 | 28,200,000 | 28,350,000 | 377 | 506 | -1.821363669 | ALOX12B,ALOX15B,CHD3,CNTROB,GUCY2D,KCNAB3,TRAPPC1 |
| 19 | 28,275,000 | 28,425,000 | 378 | 478 | -2.03400379 | ALOX12B,ALOX15B,ALOXE3,GUCY2D,HES7,PER1,VAMP2 |
| 19 | 28,350,000 | 28,500,000 | 379 | 542 | -1.588631748 | ALOXE3,AURKB,C19H17orf59,CTC1,HES7,PER1,PFAS,TMEM107,VAMP2 |
| 19 | 28,425,000 | 28,575,000 | 380 | 617 | -0.608655778 | ARHGEF15,AURKB,C19H17orf59,CTC1,ODF4,PFAS,RANGRF,SLC25A35,TMEM107 |
| 19 | 28,500,000 | 28,650,000 | 381 | 653 | -0.4621646 | ARHGEF15,NDEL1,ODF4,PFAS,RANGRF,RNF222,RPL26,SLC25A35 |
| 19 | 28,575,000 | 28,725,000 | 382 | 721 | -0.856708626 | MYH10,NDEL1,RNF222,RPL26 |
| 19 | 28,650,000 | 28,800,000 | 383 | 661 | -0.376956485 | MYH10,NDEL1 |
| 19 | 28,725,000 | 28,875,000 | 384 | 542 | -0.127511434 | CCDC42,MYH10 |
| 19 | 28,800,000 | 28,950,000 | 385 | 474 | 0.358717855 | CCDC42,MFSD6L,MYH10,PIK3R6 |
| 19 | 28,875,000 | 29,025,000 | 386 | 541 | 0.728420378 | CCDC42,MFSD6L,PIK3R5,PIK3R6 |
| 19 | 28,950,000 | 29,100,000 | 387 | 458 | 0.479608673 | NTN1,PIK3R5,PIK3R6 |
| 19 | 29,025,000 | 29,175,000 | 388 | 308 | 0.035984934 | NTN1 |
| 19 | 29,100,000 | 29,250,000 | 389 | 431 | 0.403779683 | NTN1 |
| 19 | 29,175,000 | 29,325,000 | 390 | 485 | 0.590484587 | NTN1,STX8 |
| 19 | 29,250,000 | 29,400,000 | 391 | 410 | 0.067685445 | NTN1,STX8 |
| 19 | 29,325,000 | 29,475,000 | 392 | 559 | -0.538653865 | STX8 |
| 19 | 29,400,000 | 29,550,000 | 393 | 979 | 0.166474495 | STX8,USP43,WDR16 |
| 19 | 29,475,000 | 29,625,000 | 394 | 1293 | 0.485264356 | DHRS7C,GLP2R,STX8,USP43,WDR16,ENSBTAG00000005051 |
| 19 | 29,550,000 | 29,700,000 | 395 | 1311 | 0.493100081 | DHRS7C,GAS7,GLP2R,RCVRN,USP43,ENSBTAG00000005051 |
| 19 | 29,625,000 | 29,775,000 | 396 | 971 | 0.437980595 | GAS7,GLP2R,RCVRN |
| 19 | 29,700,000 | 29,850,000 | 397 | 700 | -0.066237206 | GAS7 |
| 19 | 29,775,000 | 29,925,000 | 398 | 595 | -0.067957944 | GAS7 |
| 19 | 29,850,000 | 30,000,000 | 399 | 737 | 0.803668216 | GAS7,MYH13 |
| 19 | 29,925,000 | 30,075,000 | 400 | 907 | 0.40813598 | MYH13,MYHC-FETAL |
| 19 | 30,000,000 | 30,150,000 | 401 | 847 | 0.109662777 | MYH1,MYH13,MYH2,MYH4,MYHC-FETAL |
| 19 | 30,075,000 | 30,225,000 | 402 | 748 | 0.743630946 | MYH1,MYH2,MYH4 |
| 19 | 30,150,000 | 30,300,000 | 403 | 502 | 0.782437997 | ADPRM,MYH2,MYHC-EMBRYONIC,SCO1 |
| 19 | 30,225,000 | 30,375,000 | 404 | 386 | 0.488750133 | ADPRM,MYHC-EMBRYONIC,SCO1,TMEM220 |
| 19 | 30,300,000 | 30,450,000 | 405 | 439 | 0.843870485 | ADPRM,PIRT,TMEM220 |
| 19 | 30,375,000 | 30,525,000 | 406 | 507 | 0.617176437 | PIRT |
| 19 | 30,450,000 | 30,600,000 | 407 | 687 | 0.309564901 | |
| 19 | 30,525,000 | 30,675,000 | 408 | 712 | 0.203894619 | |
| 19 | 30,600,000 | 30,750,000 | 409 | 677 | 0.512093644 | |
| 19 | 30,675,000 | 30,825,000 | 410 | 803 | 0.994157273 | |
| 19 | 30,750,000 | 30,900,000 | 411 | 802 | 0.903708941 | |
| 19 | 30,825,000 | 30,975,000 | 412 | 616 | 0.220253801 | DNAH9 |
| 19 | 30,900,000 | 31,050,000 | 413 | 463 | -0.208442875 | DNAH9 |
| 19 | 30,975,000 | 31,125,000 | 414 | 911 | 1.132045502 | DNAH9 |
| 19 | 31,050,000 | 31,200,000 | 415 | 1499 | 1.320429333 | DNAH9 |
| 19 | 31,125,000 | 31,275,000 | 416 | 1643 | 1.28027485 | DNAH9,ZNF18 |
| 19 | 31,200,000 | 31,350,000 | 417 | 1313 | 1.278500178 | DNAH9,MAP2K4,ZNF18 |
| 19 | 31,275,000 | 31,425,000 | 418 | 1165 | 1.234662521 | MAP2K4 |
| 19 | 31,350,000 | 31,500,000 | 419 | 1457 | 1.19927118 | MAP2K4 |
| 19 | 31,425,000 | 31,575,000 | 420 | 1240 | 1.202564121 | |
| 19 | 31,500,000 | 31,650,000 | 421 | 565 | 1.08666455 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 31,575,000 | 31,725,000 | 422 | 557 | 1.103772217 | |
| 19 | 31,650,000 | 31,800,000 | 423 | 1134 | 0.84427607 | MYOCD |
| 19 | 31,725,000 | 31,875,000 | 424 | 1185 | 0.586067839 | MYOCD |
| 19 | 31,800,000 | 31,950,000 | 425 | 740 | 0.462913474 | ARHGAP44,MYOCD |
| 19 | 31,875,000 | 32,025,000 | 426 | 880 | -0.879296607 | ARHGAP44,ELAC2 |
| 19 | 31,950,000 | 32,100,000 | 427 | 1132 | -0.06657661 | ARHGAP44,ELAC2 |
| 19 | 32,025,000 | 32,175,000 | 428 | 1088 | 1.148251831 | |
| 19 | 32,100,000 | 32,250,000 | 429 | 1271 | 1.039993998 | |
| 19 | 32,175,000 | 32,325,000 | 430 | 1103 | 0.402940732 | |
| 19 | 32,250,000 | 32,400,000 | 431 | 752 | 0.052912929 | ENSBTAG00000031107 |
| 19 | 32,325,000 | 32,475,000 | 432 | 865 | 0.757462751 | ENSBTAG00000031107 |
| 19 | 32,400,000 | 32,550,000 | 433 | 1106 | 0.17885481 | ENSBTAG00000031107 |
| 19 | 32,475,000 | 32,625,000 | 434 | 873 | 0.002120895 | |
| 19 | 32,550,000 | 32,700,000 | 435 | 629 | 0.042547876 | COX10 |
| 19 | 32,625,000 | 32,775,000 | 436 | 726 | -0.061690364 | COX10 |
| 19 | 32,700,000 | 32,850,000 | 437 | 818 | 0.840981633 | COX10,HS3ST3B1 |
| 19 | 32,775,000 | 32,925,000 | 438 | 684 | 1.326992623 | COX10,HS3ST3B1 |
| 19 | 32,850,000 | 33,000,000 | 439 | 650 | 1.242155677 | HS3ST3B1 |
| 19 | 32,925,000 | 33,075,000 | 440 | 891 | 0.950706493 | |
| 19 | 33,000,000 | 33,150,000 | 441 | 916 | 0.617732615 | |
| 19 | 33,075,000 | 33,225,000 | 442 | 700 | 0.517707671 | |
| 19 | 33,150,000 | 33,300,000 | 443 | 985 | 1.14381893 | |
| 19 | 33,225,000 | 33,375,000 | 444 | 1283 | 0.848924411 | PMP22 |
| 19 | 33,300,000 | 33,450,000 | 445 | 773 | 0.36465963 | PMP22,TEKT3 |
| 19 | 33,375,000 | 33,525,000 | 446 | 575 | 0.451123326 | CDRT4,PMP22,TEKT3 |
| 19 | 33,450,000 | 33,600,000 | 447 | 666 | 0.288717477 | CDRT4,TEKT3,TVP23B |
| 19 | 33,525,000 | 33,675,000 | 448 | 888 | 0.852385512 | CDRT4,TVP23B,ZNF286A,ENSBTAG00000002605 |
| 19 | 33,600,000 | 33,750,000 | 449 | 818 | 1.228019363 | ZNF286A,ENSBTAG00000002605,ENSBTAG00000031071 |
| 19 | 33,675,000 | 33,825,000 | 450 | 594 | 0.959746679 | LRR75A,TRPV2,ZNF286A,ENSBTAG00000031071 |
| 19 | 33,750,000 | 33,900,000 | 451 | 801 | 0.75209254 | CENPV,LRR75A,PIGL,TRPV2,UBB |
| 19 | 33,825,000 | 33,975,000 | 452 | 617 | 0.766357531 | CENPV,NCOR1,PIGL,TRPV2,UBB |
| 19 | 33,900,000 | 34,050,000 | 453 | 353 | 0.624612306 | NCOR1,PIGL,TTC19 |
| 19 | 33,975,000 | 34,125,000 | 454 | 350 | -0.756908707 | ADORA2B,NCOR1,SPECC1,TTC19,ZSWIM7 |
| 19 | 34,050,000 | 34,200,000 | 455 | 385 | -1.108574769 | ADORA2B,SPECC1,TTC19,ZSWIM7 |
| 19 | 34,125,000 | 34,275,000 | 456 | 385 | -0.841387479 | SPECC1 |
| 19 | 34,200,000 | 34,350,000 | 457 | 628 | -0.696481253 | AKAP10 |
| 19 | 34,275,000 | 34,425,000 | 458 | 618 | -0.891304439 | AKAP10,ULK2 |
| 19 | 34,350,000 | 34,500,000 | 459 | 562 | -0.766620218 | AKAP10,ALDH3A1,ULK2 |
| 19 | 34,425,000 | 34,575,000 | 460 | 635 | -0.030475015 | ALDH3A1,ALDH3A2,SLC47A2,ULK2 |
| 19 | 34,500,000 | 34,650,000 | 461 | 564 | -0.121586754 | ALDH3A2,SLC47A1,SLC47A2 |
| 19 | 34,575,000 | 34,725,000 | 462 | 407 | -1.057438481 | B9D1,EPN2,MAPK7,MFAP4,RNF112,SLC47A1 |
| 19 | 34,650,000 | 34,800,000 | 463 | 386 | -0.865000397 | B9D1,EPN2,GRAP,MAPK7,MFAP4,RNF112 |
| 19 | 34,725,000 | 34,875,000 | 464 | 497 | -0.086517985 | EPN2,FAM83G,GRAP,SLC5A10 |
| 19 | 34,800,000 | 34,950,000 | 465 | 328 | 0.380117602 | FAM83G,GRAP,PRPSAP2,SHMT1,SLC5A10,SMCR8 |
| 19 | 34,875,000 | 35,025,000 | 466 | 221 | 0.419814964 | FLII,LLGL1,MIEF2,PRPSAP2,SHMT1,SMCR8,TOP3A |
| 19 | 34,950,000 | 35,100,000 | 467 | 269 | -0.386615704 | ALKBH5,DRG2,FLII,LLGL1,MIEF2,MYO15A,SMCR8,TOP3A |
| 19 | 35,025,000 | 35,175,000 | 468 | 341 | -0.520853187 | ALKBH5,ATPAF2,C19H17ORF39,DRG2,LRR48,MYO15A,TOM1L2 |
| 19 | 35,100,000 | 35,250,000 | 469 | 332 | -0.279748815 | ATPAF2,C19H17ORF39,DRG2,LRR48,SREBF1,TOM1L2 |
| 19 | 35,175,000 | 35,325,000 | 470 | 272 | -0.388647414 | RAI1,SREBF1,TOM1L2 |
| 19 | 35,250,000 | 35,400,000 | 471 | 273 | -0.732305785 | PEMT,RAI1,SREBF1 |
| 19 | 35,325,000 | 35,475,000 | 472 | 554 | -0.005732944 | MED9,NT5M,PEMT,RASD1 |
| 19 | 35,400,000 | 35,550,000 | 473 | 568 | 0.390324048 | COPS3,FLCN,MED9,NT5M,PEMT,PLD6,RASD1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 35,475,000 | 35,625,000 | 474 | 354 | 0.134911815 | COPS3,FLCN,M-RIP,NT5M,PLD6 |
| 19 | 35,550,000 | 35,700,000 | 475 | 356 | -0.891721331 | M-RIP |
| 19 | 35,625,000 | 35,775,000 | 476 | 253 | -1.085788359 | DHRS7B,M-RIP,TFNRSF13B,USP22 |
| 19 | 35,700,000 | 35,850,000 | 477 | 170 | -1.06001289 | DHRS7B,GTLF3B,TMEM11,TFNRSF13B,USP22 |
| 19 | 35,775,000 | 35,925,000 | 478 | 175 | -0.733082098 | DHRS7B,GTLF3B,MAP2K3,TMEM11 |
| 19 | 35,850,000 | 36,000,000 | 479 | 207 | 0.212863222 | KCNJ12,MAP2K3 |
| 19 | 35,925,000 | 36,075,000 | 480 | 397 | 0.390203456 | KCNJ12,ENSBTAG00000018840 |
| 19 | 36,000,000 | 36,150,000 | 481 | 606 | 0.626995577 | UTP18,ENSBTAG00000018840 |
| 19 | 36,075,000 | 36,225,000 | 482 | 519 | 1.022325503 | MBTD1,NME1,NME2,UTP18 |
| 19 | 36,150,000 | 36,300,000 | 483 | 583 | 1.131316168 | MBTD1,NME1,NME2 |
| 19 | 36,225,000 | 36,375,000 | 484 | 590 | 0.988016133 | NME1,SPAG9 |
| 19 | 36,300,000 | 36,450,000 | 485 | 439 | 0.660808258 | SPAG9,ENSBTAG00000037660 |
| 19 | 36,375,000 | 36,525,000 | 486 | 458 | 0.040069027 | SPAG9,TOB1,ENSBTAG00000037660 |
| 19 | 36,450,000 | 36,600,000 | 487 | 467 | -0.250014644 | TOB1,WFIKKN2 |
| 19 | 36,525,000 | 36,675,000 | 488 | 583 | 0.467077432 | ANKRD40,LUC7L3,WFIKKN2 |
| 19 | 36,600,000 | 36,750,000 | 489 | 807 | 0.436317716 | ABCC3,ANKRD40,CACNA1G,LUC7L3 |
| 19 | 36,675,000 | 36,825,000 | 490 | 908 | 0.113267567 | ABCC3,ANKRD40,CACNA1G,EPN3,MYCBPAP,SPATA20 |
| 19 | 36,750,000 | 36,900,000 | 491 | 859 | -0.192808827 | ACSF2,CACNA1G,CHAD,EPN3,MYCBPAP,RSAD1,SPATA20 |
| 19 | 36,825,000 | 36,975,000 | 492 | 771 | 0.310878971 | ACSF2,CHAD,EME1,LRRC59,MRPL27,MYCBPAP,RSAD1,XYL T2 |
| 19 | 36,900,000 | 37,050,000 | 493 | 976 | 1.04352334 | ACSF2,EME1,LRRC59,MRPL27,TMEM92,XYL T2 |
| 19 | 36,975,000 | 37,125,000 | 494 | 1052 | 0.871617188 | COL1A1,SGCA,TMEM92,ENSBTAG00000043979 |
| 19 | 37,050,000 | 37,200,000 | 495 | 644 | 0.21895091 | COL1A1,ITGA3,PKK2,SAMD14,SGCA,ENSBTAG000000439 79 |
| 19 | 37,125,000 | 37,275,000 | 496 | 728 | -0.282971642 | ITGA3,PKK2,SAMD14 |
| 19 | 37,200,000 | 37,350,000 | 497 | 804 | -0.243841529 | DLX3,DLX4,ITGA3,ENSBTAG00000045805 |
| 19 | 37,275,000 | 37,425,000 | 498 | 427 | -0.922834714 | DLX3,DLX4,ENSBTAG00000045805 |
| 19 | 37,350,000 | 37,500,000 | 499 | 556 | 0.281599855 | MYST2 |
| 19 | 37,425,000 | 37,575,000 | 500 | 536 | 0.603038044 | FAM117A,MYST2,SLC35B1,SPOP |
| 19 | 37,500,000 | 37,650,000 | 501 | 256 | 0.698223092 | FAM117A,SLC35B1,SPOP |
| 19 | 37,575,000 | 37,725,000 | 502 | 431 | 0.958686965 | NXPH3,SPOP |
| 19 | 37,650,000 | 37,800,000 | 503 | 557 | 0.139298266 | NGFR,NXPH3,SPOP |
| 19 | 37,725,000 | 37,875,000 | 504 | 459 | 0.124690723 | NGFR,PHB |
| 19 | 37,800,000 | 37,950,000 | 505 | 339 | 1.213684487 | PHB,ZNF652 |
| 19 | 37,875,000 | 38,025,000 | 506 | 531 | 1.394037237 | ABI3,GNGT2,PHOSPHO1,ZNF652 |
| 19 | 37,950,000 | 38,100,000 | 507 | 905 | 1.325849934 | ABI3,B4GALNT2,GNGT2,PHOSPHO1 |
| 19 | 38,025,000 | 38,175,000 | 508 | 883 | 1.19727954 | B4GALNT2,IGF2BP1 |
| 19 | 38,100,000 | 38,250,000 | 509 | 657 | 1.228237382 | GIP,IGF2BP1,SNF8,UBE2Z |
| 19 | 38,175,000 | 38,325,000 | 510 | 561 | 0.4050514 | ATP5G1,CALCOCO2,GIP,IGF2BP1,SNF8,UBE2Z |
| 19 | 38,250,000 | 38,400,000 | 511 | 511 | 0.46907691 | ATP5G1,CALCOCO2,TTLL6 |
| 19 | 38,325,000 | 38,475,000 | 512 | 431 | 0.822730787 | CALCOCO2,HOXB13,TTLL6 |
| 19 | 38,400,000 | 38,550,000 | 513 | 327 | 0.058011015 | HOXB13,HOXB5,HOXB7,HOXB9 |
| 19 | 38,475,000 | 38,625,000 | 514 | 228 | -1.041597814 | HOXB1,HOXB2,HOXB3,HOXB4,HOXB5,HOXB7,HOXB9 |
| 19 | 38,550,000 | 38,700,000 | 515 | 225 | 0.512403281 | HOXB1,HOXB2,HOXB3,HOXB4,SKAP1 |
| 19 | 38,625,000 | 38,775,000 | 516 | 295 | 0.769864662 | SKAP1 |
| 19 | 38,700,000 | 38,850,000 | 517 | 276 | 0.267147999 | SKAP1 |
| 19 | 38,775,000 | 38,925,000 | 518 | 266 | 0.264076676 | SKAP1 |
| 19 | 38,850,000 | 39,000,000 | 519 | 298 | 0.580038776 | SKAP1 |
| 19 | 38,925,000 | 39,075,000 | 520 | 205 | 0.799676531 | CBX1,NFE2L1,SKAP1,SNX11 |
| 19 | 39,000,000 | 39,150,000 | 521 | 240 | 1.127722085 | CBX1,CDK5RAP3,COPZ2,NFE2L1,SKAP1,SNX11 |
| 19 | 39,075,000 | 39,225,000 | 522 | 470 | 0.473567976 | CDK5RAP3,COPZ2,PNPO,PRR15L,SP2 |
| 19 | 39,150,000 | 39,300,000 | 523 | 442 | -0.430294532 | LRRC46,MRPL10,OSBPL7,PNPO,PRR15L,SCRN2,SP2,SP6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 39,225,000 | 39,375,000 | 524 | 267 | -0.749138632 | LRRC46,MRPL10,OSBPL7,SCRN2,SP2,SP6,TBX21 |
| 19 | 39,300,000 | 39,450,000 | 525 | 185 | -1.639990925 | KPNB1,TBKBP1,TBX21 |
| 19 | 39,375,000 | 39,525,000 | 526 | 187 | -2.001976544 | KPNB1,NPEPPS,TBKBP1 |
| 19 | 39,450,000 | 39,600,000 | 527 | 271 | -1.812949231 | NPEPPS |
| 19 | 39,525,000 | 39,675,000 | 528 | 322 | -0.173208525 | GPR179,MRPL45,NPEPPS,SOCS7 |
| 19 | 39,600,000 | 39,750,000 | 529 | 293 | 0.998423901 | ARHGAP23,GPR179,MRPL45,SOCS7,ENSBTAG00000046615 |
| 19 | 39,675,000 | 39,825,000 | 530 | 268 | 0.14780582 | ARHGAP23,SRCIN1,ENSBTAG00000046615 |
| 19 | 39,750,000 | 39,900,000 | 531 | 368 | 0.300422223 | ARHGAP23,SRCIN1 |
| 19 | 39,825,000 | 39,975,000 | 532 | 466 | 0.575215248 | C17orf96,CISD3,MLLT6,PCGF2,SRCIN1 |
| 19 | 39,900,000 | 40,050,000 | 533 | 531 | 0.957257806 | C17orf96,CCDC49,CISD3,MLLT6,PCGF2,PIP4K2B,PSMB3 |
| 19 | 39,975,000 | 40,125,000 | 534 | 657 | 1.189710028 | C19H17orf98,CCDC49,LASP1,PIP4K2B,PSMB3,RPL23 |
| 19 | 40,050,000 | 40,200,000 | 535 | 633 | 0.768338235 | C19H17orf98,FBXO47,LASP1,RPL23 |
| 19 | 40,125,000 | 40,275,000 | 536 | 602 | -0.027341614 | FBXO47,LASP1,PLXDC1 |
| 19 | 40,200,000 | 40,350,000 | 537 | 492 | 0.10691719 | ARL5C,CACNB1,PLXDC1,RPL19,STAC2 |
| 19 | 40,275,000 | 40,425,000 | 538 | 373 | -0.06697369 | ARL5C,CACNB1,FBXL20,PLXDC1,RPL19,STAC2,ENSBTAG000008368 |
| 19 | 40,350,000 | 40,500,000 | 539 | 312 | 0.106280033 | FBXL20,MED1,STAC2,ENSBTAG0000008368 |
| 19 | 40,425,000 | 40,575,000 | 540 | 269 | 0.985050586 | CDK12,FBXL20,MED1 |
| 19 | 40,500,000 | 40,650,000 | 541 | 275 | 0.912781147 | CDK12,MED1,NEUROD2 |
| 19 | 40,575,000 | 40,725,000 | 542 | 480 | 1.065191967 | ERBB2,NEUROD2,PGAP3,PNMT,PPP1R1B,STARD3,TCAP |
| 19 | 40,650,000 | 40,800,000 | 543 | 482 | 0.824690821 | ERBB2,GRB7,IKZF3,MIEN1,PGAP3,PNMT,PPP1R1B,STARD3,TCAP |
| 19 | 40,725,000 | 40,875,000 | 544 | 282 | 0.247584587 | ERBB2,GRB7,IKZF3,MIEN1,ZPBP2 |
| 19 | 40,800,000 | 40,950,000 | 545 | 506 | -0.253891575 | GSDMA,GSDMB,IKZF3,LRRC3C,ORMDL3,ZPBP2 |
| 19 | 40,875,000 | 41,025,000 | 546 | 518 | -0.323767091 | CSF3,GSDMA,GSDMB,LRRC3C,MED24,ORMDL3,PSMD3,THRA,ZPBP2 |
| 19 | 40,950,000 | 41,100,000 | 547 | 472 | 0.621883745 | CASC3,CSF3,GSDMA,MED24,MSL1,NR1D1,PSMD3,THRA |
| 19 | 41,025,000 | 41,175,000 | 548 | 642 | 0.873421823 | CASC3,MSL1,NR1D1,RAPGEFL1,THRA,WIPF2 |
| 19 | 41,100,000 | 41,250,000 | 549 | 589 | 0.683092038 | CASC3,CDC6,RAPGEFL1,RARA,WIPF2 |
| 19 | 41,175,000 | 41,325,000 | 550 | 640 | 0.947755823 | CDC6,RARA,TOP2A,WIPF2 |
| 19 | 41,250,000 | 41,400,000 | 551 | 915 | 1.190006131 | IGFBP4,TNS4,TOP2A |
| 19 | 41,325,000 | 41,475,000 | 552 | 937 | 1.020565425 | CCR7,IGFBP4,TNS4 |
| 19 | 41,400,000 | 41,550,000 | 553 | 891 | 0.588801559 | CCR7,KRT222,SMARCE1 |
| 19 | 41,475,000 | 41,625,000 | 554 | 1292 | -0.566756082 | KRT222,KRT24,KRT25,KRT26,SMARCE1 |
| 19 | 41,550,000 | 41,700,000 | 555 | 1585 | -0.949498684 | KRT10,KRT24,KRT25,KRT26,KRT27,KRT28 |
| 19 | 41,625,000 | 41,775,000 | 556 | 1162 | 0.085662446 | KRT10,KRT12,KRT20,KRT23,KRT27,KRT28 |
| 19 | 41,700,000 | 41,850,000 | 557 | 1039 | 0.140052865 | KRT12,KRT20,KRT23,KRT39,KRT40,KRTAP3-3,KRT23,KRT39,KRT40,KRTAP1-1,KRTAP3-1,KRTAP3-3,ENSBTAG00000024995,ENSBTAG00000038759,ENSBTAG00000046225 |
| 19 | 41,775,000 | 41,925,000 | 558 | 897 | -0.00358594 | KRTAP1-1,KRTAP3-1,KRTAP4-7,RPL17,ENSBTAG00000024995,ENSBTAG00000037665,ENSBTAG00000037943,ENSBTAG00000038759,ENSBTAG0000039587,ENSBTAG00000039644,ENSBTAG00000040118,ENSBTAG00000046075,ENSBTAG00000046225,ENSBTAG0000046907 |
| 19 | 41,850,000 | 42,000,000 | 559 | 681 | 0.813664995 | KRTAP4-7,RPL17,ENSBTAG00000037665,ENSBTAG00000037943,ENSBTAG00000039587,ENSBTAG00000039644,ENSBTAG00000040118,ENSBTAG00000046075,ENSBTAG00000046907 |
| 19 | 41,925,000 | 42,075,000 | 560 | 875 | 0.8678027 | KRTAP9-1,ENSBTAG00000001672,ENSBTAG00000039880 |
| 19 | 42,000,000 | 42,150,000 | 561 | 905 | 0.306632623 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 42,075,000 | 42,225,000 | 562 | 885 | 0.110798216 | KRT33A,KRTAP9-1,ENSBTAG00000001672,ENSBTAG000000030519 |
| 19 | 42,150,000 | 42,300,000 | 563 | 948 | 0.263309294 | HKA1,KRT31,KRT33A,ENSBTAG00000000573,ENSBTAG000000030519 |
| 19 | 42,225,000 | 42,375,000 | 564 | 1036 | 0.458725024 | HKA1,KRT15,KRT19,KRT31,KRT32,KRT35,KRT36,ENSBTAG0000000573 |
| 19 | 42,300,000 | 42,450,000 | 565 | 1015 | 0.45337451 | KRT14,KRT15,KRT19,KRT32,KRT35,KRT36,KRT9 |
| 19 | 42,375,000 | 42,525,000 | 566 | 1190 | 0.527090042 | KRT14,KRT16,KRT17,KRT9,ENSBTAG000000047262 |
| 19 | 42,450,000 | 42,600,000 | 567 | 1294 | 0.539004353 | EIF1,GAST,KRT16,KRT17,ENSBTAG000000047262 |
| 19 | 42,525,000 | 42,675,000 | 568 | 1061 | 0.747896541 | EIF1,FKBP10,GAST,JUP,KLHL10,LEPREL4,NT5C3L |
| 19 | 42,600,000 | 42,750,000 | 569 | 870 | 0.952643008 | ACLY,FKBP10,JUP,KLHL10,KLHL11,LEPREL4,NT5C3L,TTC25 |
| 19 | 42,675,000 | 42,825,000 | 570 | 717 | 0.877975573 | ACLY,CNP,DNAJC7,KLHL10,KLHL11,NKIRAS2,TTC25,ZNF385C |
| 19 | 42,750,000 | 42,900,000 | 571 | 599 | 0.518854212 | CNP,DNAJC7,HSPB9,KAT2A,LGP2,NKIRAS2,RAB5C,TTC25,ZNF385C |
| 19 | 42,825,000 | 42,975,000 | 572 | 654 | 0.400390847 | BORX,GHDC,HSPB9,KAT2A,KCNH4,LGP2,RAB5C,STAT5B,ZNF385C |
| 19 | 42,900,000 | 43,050,000 | 573 | 647 | 0.16482039 | BORX,GHDC,KCNH4,RAB5C,STAT5A,STAT5B |
| 19 | 42,975,000 | 43,125,000 | 574 | 774 | -0.358348412 | STAT3,STAT5A,STAT5B |
| 19 | 43,050,000 | 43,200,000 | 575 | 617 | -0.216850037 | PTRF,STAT3,STAT5A |
| 19 | 43,125,000 | 43,275,000 | 576 | 223 | 0.389853457 | ATP6V0A1,HSD17B1,NAGLU,PTRF,STAT3 |
| 19 | 43,200,000 | 43,350,000 | 577 | 391 | 0.098111172 | ATP6V0A1,COASY,FAM134C,HSD17B1,MLX,NAGLU,PSMC3IP,TUBG1 |
| 19 | 43,275,000 | 43,425,000 | 578 | 409 | -0.022329083 | CCR10,CNTNAP1,COASY,EZH1,FAM134C,MLX,PLEKHH3,PSMC3IP,TUBG1,TUBG2 |
| 19 | 43,350,000 | 43,500,000 | 579 | 261 | 0.798337784 | BECN1,CCR10,CNTD1,CNTNAP1,COA3,EZH1,PLEKHH3,RAMP2,TUBG2,VPS25,WNK4 |
| 19 | 43,425,000 | 43,575,000 | 580 | 486 | 0.410829922 | AOC2,AOC3,BECN1,CNTD1,COA3,EZH1,PSME3,RAMP2,VP S25,WNK4,ENSBTAG00000001041,ENSBTAG000000030333,ENSBTAG000000039321 |
| 19 | 43,500,000 | 43,650,000 | 581 | 500 | 0.13741379 | AARSD1,AOC2,AOC3,G6PC,PSME3,ENSBTAG00000001041,ENSBTAG000000030333,ENSBTAG000000039321 |
| 19 | 43,575,000 | 43,725,000 | 582 | 298 | -0.06644183 | AARSD1,BRCA1,G6PC,IFI35,RND2,RPL27,RUNDC1,VAT1 |
| 19 | 43,650,000 | 43,800,000 | 583 | 284 | -0.649814844 | AARSD1,BRCA1,IFI35,NBR1,RND2,RPL27,RUNDC1,VAT1 |
| 19 | 43,725,000 | 43,875,000 | 584 | 297 | 0.282925697 | BRCA1,NBR1,SNRPE,TMEM106A |
| 19 | 43,800,000 | 43,950,000 | 585 | 456 | 1.129765633 | ARL4D,NBR1,SNRPE,TMEM106A |
| 19 | 43,875,000 | 44,025,000 | 586 | 503 | 1.000906912 | ARL4D |
| 19 | 43,950,000 | 44,100,000 | 587 | 438 | 0.624542319 | DHX8,ETV4 |
| 19 | 44,025,000 | 44,175,000 | 588 | 361 | 1.027958628 | DHX8,ETV4,MEOX1 |
| 19 | 44,100,000 | 44,250,000 | 589 | 246 | 1.29702151 | MEOX1 |
| 19 | 44,175,000 | 44,325,000 | 590 | 347 | 1.179765896 | C17orf105,DUSP3,MEOX1,MPP3,SOST |
| 19 | 44,250,000 | 44,400,000 | 591 | 528 | 1.14798869 | C17orf105,CD300LG,DUSP3,MPP2,MPP3,SOST |
| 19 | 44,325,000 | 44,475,000 | 592 | 705 | 1.2557002 | CD300LG,MPP2,MPP3,PPY,PYY,PYY2 |
| 19 | 44,400,000 | 44,550,000 | 593 | 597 | 1.260430088 | G6PC3,HDAC5,LSM12,MPP2,NAGS,PPY,PYY,PYY2,TMEM101 |
| 19 | 44,475,000 | 44,625,000 | 594 | 359 | 1.01338146 | ASB16,C17orf53,G6PC3,HDAC5,LSM12,NAGS,TMEM101 |
| 19 | 44,550,000 | 44,700,000 | 595 | 272 | 0.792176384 | ASB16,ATXN7L3,BEB3,C17orf53,HDAC5,TMUB2,UBF |
| 19 | 44,625,000 | 44,775,000 | 596 | 237 | -0.71947723 | ATXN7L3,BEB3,RUNDC3A,SLC25A39,TMUB2,UBF |
| 19 | 44,700,000 | 44,850,000 | 597 | 233 | -1.822881015 | BEB3,FAM171A2,GPATCH8,GRN,ITGA2B,RUNDC3A,SLC25A39 |
| 19 | 44,775,000 | 44,925,000 | 598 | 230 | -0.579001918 | FAM171A2,GPATCH8,GRN,ITGA2B |
| 19 | 44,850,000 | 45,000,000 | 599 | 326 | -3.112255005 | FZD2,GPATCH8 |
| 19 | 44,925,000 | 45,075,000 | 600 | 500 | -3.77591481 | C17orf104,CCDC43,DBF4B,FZD2 |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|--|--------|
| 19 | 45,000,000 | 45,150,000 | 601 | 481 | -2.726780302 | ADAM11,C17orf104,CCDC43,DBF4B | |
| 19 | 45,075,000 | 45,225,000 | 602 | 511 | -3.73756603 | ADAM11,DBF4B,EFTUD2,GJC1,HIGD1B | |
| 19 | 45,150,000 | 45,300,000 | 603 | 595 | -3.040545204 | C1QL1,EFTUD2,FAM187A,GFAP,GJC1,HIGD1B,KIF18B,ENSBTAG00000013529 | |
| 19 | 45,225,000 | 45,375,000 | 604 | 553 | 0.501926872 | C1QL1,DCAKD,EFTUD2,FAM187A,GFAP,KIF18B,ENSBTAG0000013529 | |
| 19 | 45,300,000 | 45,450,000 | 605 | 467 | 0.828606107 | ACBD4,DCAKD,HEXIM1,NMT1,PLCD3 | |
| 19 | 45,375,000 | 45,525,000 | 606 | 308 | 0.939617409 | ACBD4,FMNL1,HEXIM1,HEXIM2,NMT1,PLCD3,ENSBTAG000024975 | |
| 19 | 45,450,000 | 45,600,000 | 607 | 222 | 1.061821283 | FMNL1,HEXIM2,MAP3K14,SPATA32,ENSBTAG00000024975 | |
| 19 | 45,525,000 | 45,675,000 | 608 | 374 | 0.751689795 | MAP3K14,SPATA32,ENSBTAG00000024975 | |
| 19 | 45,600,000 | 45,750,000 | 609 | 825 | 0.555721184 | ARHGAP27,PLEKHM1 | |
| 19 | 45,675,000 | 45,825,000 | 610 | 773 | 0.43085097 | ARHGAP27,PLEKHM1,ENSBTAG00000027274 | |
| 19 | 45,750,000 | 45,900,000 | 611 | 502 | 0.176509568 | LYZL6,PLEKHM1,RDM1,RPRML,ENSBTAG00000027274 | |
| 19 | 45,825,000 | 45,975,000 | 612 | 600 | -0.124193789 | GOSR2,LYZL6,RDM1,RPRML,WNT9B,ENSBTAG00000027274 | |
| 19 | 45,900,000 | 46,050,000 | 613 | 498 | -0.017471223 | GOSR2,WNT9B | |
| 19 | 45,975,000 | 46,125,000 | 614 | 424 | 0.807861285 | NSF,WNT3,WNT9B | |
| 19 | 46,050,000 | 46,200,000 | 615 | 407 | 1.059789465 | NSF,WNT3 | |
| 19 | 46,125,000 | 46,275,000 | 616 | 418 | 0.894637668 | ARF2,NSF | |
| 19 | 46,200,000 | 46,350,000 | 617 | 636 | 0.953575568 | ARF2,NSF | |
| 19 | 46,275,000 | 46,425,000 | 618 | 765 | 0.827577503 | | |
| 19 | 46,350,000 | 46,500,000 | 619 | 640 | 0.716049952 | CRHR1,SPPL2C | |
| 19 | 46,425,000 | 46,575,000 | 620 | 436 | 0.754485108 | CRHR1,MAPT,SPPL2C | |
| 19 | 46,500,000 | 46,650,000 | 621 | 576 | 0.985163861 | MAPT | |
| 19 | 46,575,000 | 46,725,000 | 622 | 689 | 1.149178036 | KANSL1,MAPT | |
| 19 | 46,650,000 | 46,800,000 | 623 | 797 | 1.259422145 | KANSL1,ENSBTAG00000046260 | |
| 19 | 46,725,000 | 46,875,000 | 624 | 753 | 1.203725456 | CDC27,KANSL1,ENSBTAG00000046260 | |
| 19 | 46,800,000 | 46,950,000 | 625 | 558 | 1.293933304 | CDC27,MYL4 | |
| 19 | 46,875,000 | 47,025,000 | 626 | 845 | 0.59813022 | CDC27,INTB3,MYL4 | |
| 19 | 46,950,000 | 47,100,000 | 627 | 1145 | -0.357978239 | EFCAB13,INTB3 | |
| 19 | 47,025,000 | 47,175,000 | 628 | 1065 | -0.882935513 | EFCAB13,INTB3,ENSBTAG00000045837 | |
| 19 | 47,100,000 | 47,250,000 | 629 | 663 | -0.811095741 | ENSBTAG00000045837 | |
| 19 | 47,175,000 | 47,325,000 | 630 | 837 | 0.178908262 | | |
| 19 | 47,250,000 | 47,400,000 | 631 | 1179 | -0.722707008 | | |
| 19 | 47,325,000 | 47,475,000 | 632 | 1069 | -1.582692061 | EFCAB3 | |
| 19 | 47,400,000 | 47,550,000 | 633 | 1002 | -0.807132423 | EFCAB3,METTL2 | |
| 19 | 47,475,000 | 47,625,000 | 634 | 729 | 0.429048637 | EFCAB3,METTL2,TLK2 | |
| 19 | 47,550,000 | 47,700,000 | 635 | 438 | 1.067408218 | TLK2 | |
| 19 | 47,625,000 | 47,775,000 | 636 | 310 | 0.349780176 | MARCH10,MRC2,TLK2 | |
| 19 | 47,700,000 | 47,850,000 | 637 | 534 | 0.43412061 | MARCH10,MRC2 | |
| 19 | 47,775,000 | 47,925,000 | 638 | 626 | 0.383751413 | | 10-Mar |
| 19 | 47,850,000 | 48,000,000 | 639 | 519 | 0.138160107 | | 10-Mar |
| 19 | 47,925,000 | 48,075,000 | 640 | 764 | 0.555912721 | | |
| 19 | 48,000,000 | 48,150,000 | 641 | 776 | 0.914068489 | TANC2 | |
| 19 | 48,075,000 | 48,225,000 | 642 | 618 | 0.633097045 | TANC2 | |
| 19 | 48,150,000 | 48,300,000 | 643 | 525 | -0.04810572 | TANC2 | |
| 19 | 48,225,000 | 48,375,000 | 644 | 523 | 0.211446618 | TANC2 | |
| 19 | 48,300,000 | 48,450,000 | 645 | 550 | 0.32738526 | ACE,CYB561,TANC2,ENSBTAG00000047866 | |
| 19 | 48,375,000 | 48,525,000 | 646 | 434 | 0.677753944 | ACE,CYB561,KCNH6,TANC2,WDR68,ENSBTAG00000038138,ENSBTAG00000047866 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 48,450,000 | 48,600,000 | 647 | 572 | 1.242116328 | ACE,KCNH6,MAP3K3,TACO1,WDR68,ENSBTAG00000038138 |
| 19 | 48,525,000 | 48,675,000 | 648 | 577 | 1.145105908 | CCDC47,LIMD2,MAP3K3,STRADA,TACO1,WDR68 |
| 19 | 48,600,000 | 48,750,000 | 649 | 426 | -0.444036141 | CCDC47,DDX42,FTSJ3,LIMD2,MAP3K3,PSMC5,SMARCD2,STRADA |
| 19 | 48,675,000 | 48,825,000 | 650 | 779 | -0.047380168 | CCDC47,CD79B,DDX42,FTSJ3,GH1,PSMC5,SCN4A,SMARCD2,ENSBTAG00000024947 |
| 19 | 48,750,000 | 48,900,000 | 651 | 1366 | 0.483487573 | CD79B,GH1,ICAM2,SCN4A,ENSBTAG00000024947 |
| 19 | 48,825,000 | 48,975,000 | 652 | 1256 | 0.118257103 | ERN1,ICAM2,SCN4A |
| 19 | 48,900,000 | 49,050,000 | 653 | 942 | -1.252143986 | ERN1,TEX2 |
| 19 | 48,975,000 | 49,125,000 | 654 | 939 | -2.851375742 | TEX2 |
| 19 | 49,050,000 | 49,200,000 | 655 | 875 | -2.878377223 | PECAM1,TEX2 |
| 19 | 49,125,000 | 49,275,000 | 656 | 660 | -2.26431596 | MILR1,PECAM1 |
| 19 | 49,200,000 | 49,350,000 | 657 | 475 | -2.00444188 | CEP95,DDX5,MILR1,PECAM1,POLG2 |
| 19 | 49,275,000 | 49,425,000 | 658 | 394 | 0.397280621 | CEP95,DDX5,MILR1,POLG2,SMURF2 |
| 19 | 49,350,000 | 49,500,000 | 659 | 245 | 0.577100032 | CEP95,SMURF2 |
| 19 | 49,425,000 | 49,575,000 | 660 | 370 | 0.950665512 | KPNA2,SMURF2 |
| 19 | 49,500,000 | 49,650,000 | 661 | 638 | 0.975936602 | BPTF,KPNA2 |
| 19 | 49,575,000 | 49,725,000 | 662 | 611 | 0.853003237 | BPTF,KPNA2 |
| 19 | 49,650,000 | 49,800,000 | 663 | 508 | 0.498098419 | BPTF,NOL11 |
| 19 | 49,725,000 | 49,875,000 | 664 | 436 | 0.239711659 | NOL11,ENSBTAG00000044065 |
| 19 | 49,800,000 | 49,950,000 | 665 | 474 | -0.05045039 | NOL11,ENSBTAG00000044065 |
| 19 | 49,875,000 | 50,025,000 | 666 | 477 | 0.278152336 | ENSBTAG00000044065 |
| 19 | 49,950,000 | 50,100,000 | 667 | 393 | 0.700021636 | |
| 19 | 50,025,000 | 50,175,000 | 668 | 635 | 0.514358241 | PSMD12 |
| 19 | 50,100,000 | 50,250,000 | 669 | 636 | 0.746515298 | METRNL,PSMD12 |
| 19 | 50,175,000 | 50,325,000 | 670 | 437 | 0.719611974 | METRNL |
| 19 | 50,250,000 | 50,400,000 | 671 | 892 | -1.778693742 | METRNL,TBCD |
| 19 | 50,325,000 | 50,475,000 | 672 | 1025 | -1.67644559 | TBCD |
| 19 | 50,400,000 | 50,550,000 | 673 | 763 | -0.07236932 | FN3K,TBCD,ZNF750 |
| 19 | 50,475,000 | 50,625,000 | 674 | 685 | 0.331844496 | FN3K,FN3KRP,RAB40B,TBCD,WDR45L,ZNF750 |
| 19 | 50,550,000 | 50,700,000 | 675 | 722 | 0.484624555 | FN3KRP,FOXK2,RAB40B,WDR45L |
| 19 | 50,625,000 | 50,775,000 | 676 | 689 | 0.681513881 | C17orf62,FOXK2,HEXDC,NARF,WDR45L |
| 19 | 50,700,000 | 50,850,000 | 677 | 467 | 0.751280822 | C17orf62,HEXDC,NARF,OGFOD3,UTS2R,ENSBTAG00000015299,ENSBTAG00000047667 |
| 19 | 50,775,000 | 50,925,000 | 678 | 1007 | 0.784808663 | HEXDC,OGFOD3,UTS2R,ENSBTAG00000015299,ENSBTAG00000024934,ENSBTAG00000039765,ENSBTAG00000047667 |
| 19 | 50,850,000 | 51,000,000 | 679 | 1219 | 0.527632245 | SECTM1,ENSBTAG00000024915,ENSBTAG00000024934,ENSBTAG00000039765 |
| 19 | 50,925,000 | 51,075,000 | 680 | 975 | -0.684197432 | SECTM1,ENSBTAG00000024915 |
| 19 | 51,000,000 | 51,150,000 | 681 | 1175 | -1.818707591 | SECTM1 |
| 19 | 51,075,000 | 51,225,000 | 682 | 853 | -1.599644194 | CD7,CSNK1D,SECTM1 |
| 19 | 51,150,000 | 51,300,000 | 683 | 389 | -0.130626687 | CCDC57,CD7,CSNK1D,SLC16A3 |
| 19 | 51,225,000 | 51,375,000 | 684 | 357 | -1.557422507 | CCDC57,CSNK1D,SLC16A3 |
| 19 | 51,300,000 | 51,450,000 | 685 | 349 | -1.670286737 | CCDC57,DUS1L,FASN,GPS1,RFNG |
| 19 | 51,375,000 | 51,525,000 | 686 | 341 | 0.319535756 | DCXR,DUS1L,FASN,GPS1,LRR45,RAC3,RFNG,STRA13,ENSBTAG0000004632,ENSBTAG00000047973 |
| 19 | 51,450,000 | 51,600,000 | 687 | 282 | 0.697590967 | DCXR,LRR45,MAFG,MYADML2,PCYT2,PCYR1,RAC3,SIRT7,STRA13,ENSBTAG0000004632,ENSBTAG00000047973 |
| 19 | 51,525,000 | 51,675,000 | 688 | 278 | -0.07605976 | ALYREF,ANAPC11,ARHGDI1,FAM195B,GCGR,MAFG,MYADML2,NPB,P4HB,PCYT2,PPP1R27,PCYR1,SIRT7,ENSBTAG0000004632 |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|---|--------|
| 19 | 51,600,000 | 51,750,000 | 689 | 536 | -0.307389458 | ALYREF,ANAPC11,ARHGDI1,ARL16,FAM195B,GCGR,HGS,MRPL12,NPB,P4HB,PPP1R27 | |
| 19 | 51,675,000 | 51,825,000 | 690 | 728 | -1.031025267 | ARL16,CCDC137,GCGR,HGS,MRPL12,NPLOC4,OXLD1,PDE6G,TSPAN10 | |
| 19 | 51,750,000 | 51,900,000 | 691 | 528 | -1.415335236 | ACTG1,C17orf70,CCDC137,FSCN2,NPLOC4,OXLD1,PDE6G,TSPAN10 | |
| 19 | 51,825,000 | 51,975,000 | 692 | 338 | 0.048013553 | ACTG1,BAHCC1,C17orf70,FSCN2,NPLOC4 | |
| 19 | 51,900,000 | 52,050,000 | 693 | 334 | -0.106886586 | BAHCC1,SLC38A10 | |
| 19 | 51,975,000 | 52,125,000 | 694 | 620 | -0.609413799 | CEP131,ENTHD2,SLC38A10 | |
| 19 | 52,050,000 | 52,200,000 | 695 | 990 | -0.440291074 | AATK,BAIAP2,CEP131,ENTHD2,SLC38A10 | |
| 19 | 52,125,000 | 52,275,000 | 696 | 969 | -0.162915479 | AATK,BAIAP2 | |
| 19 | 52,200,000 | 52,350,000 | 697 | 873 | 0.26689063 | BAIAP2,CHMP6,RPTOR | |
| 19 | 52,275,000 | 52,425,000 | 698 | 819 | 0.411460936 | CHMP6,RPTOR | |
| 19 | 52,350,000 | 52,500,000 | 699 | 692 | 0.323182125 | RPTOR | |
| 19 | 52,425,000 | 52,575,000 | 700 | 470 | 0.182271346 | RPTOR | |
| 19 | 52,500,000 | 52,650,000 | 701 | 496 | 0.541237096 | RPTOR | |
| 19 | 52,575,000 | 52,725,000 | 702 | 522 | 0.664652738 | ENDOV,NPTX1,RPTOR | |
| 19 | 52,650,000 | 52,800,000 | 703 | 397 | 0.918417753 | ENDOV,NPTX1,RNF213 | |
| 19 | 52,725,000 | 52,875,000 | 704 | 597 | 0.899178481 | ENDOV,RNF213 | |
| 19 | 52,800,000 | 52,950,000 | 705 | 806 | 0.861751779 | ENSBTAG00000017233 | |
| 19 | 52,875,000 | 53,025,000 | 706 | 811 | 0.585405191 | SLC26A11,ENSBTAG00000017233 | |
| 19 | 52,950,000 | 53,100,000 | 707 | 886 | 0.47374585 | CARD14,EIF4A3,SGSH,SLC26A11,ENSBTAG00000017233 | |
| 19 | 53,025,000 | 53,175,000 | 708 | 891 | 0.465036228 | CARD14,CCDC40,EIF4A3,GAA,SGSH,SLC26A11,USMG5 | |
| 19 | 53,100,000 | 53,250,000 | 709 | 639 | -0.653112571 | CCDC40,GAA,TBC1D16,USMG5 | |
| 19 | 53,175,000 | 53,325,000 | 710 | 407 | -1.115913542 | CBX4,TBC1D16 | |
| 19 | 53,250,000 | 53,400,000 | 711 | 294 | 0.312318312 | CBX2,CBX4,CBX8 | |
| 19 | 53,325,000 | 53,475,000 | 712 | 562 | -0.97823233 | CBX2,CBX4,CBX8,ENPP7 | |
| 19 | 53,400,000 | 53,550,000 | 713 | 715 | -1.243608972 | ENPP7 | |
| 19 | 53,475,000 | 53,625,000 | 714 | 878 | -0.777420661 | RBFOX3 | |
| 19 | 53,550,000 | 53,700,000 | 715 | 1286 | -0.663480844 | RBFOX3 | |
| 19 | 53,625,000 | 53,775,000 | 716 | 981 | -1.011536621 | RBFOX3 | |
| 19 | 53,700,000 | 53,850,000 | 717 | 660 | -0.636205538 | RBFOX3 | |
| 19 | 53,775,000 | 53,925,000 | 718 | 623 | 0.043366459 | RBFOX3 | |
| 19 | 53,850,000 | 54,000,000 | 719 | 431 | -0.00362807 | C1QTNF1,ENGASE,RBFOX3 | |
| 19 | 53,925,000 | 54,075,000 | 720 | 414 | -0.372742651 | C1QTNF1,CANT1,ENGASE,LGALS3BP,RBFOX3 | |
| 19 | 54,000,000 | 54,150,000 | 721 | 601 | -0.45920667 | CANT1,LGALS3BP,TIMP2,USP36 | |
| 19 | 54,075,000 | 54,225,000 | 722 | 601 | -0.415113996 | TIMP2,USP36 | |
| 19 | 54,150,000 | 54,300,000 | 723 | 474 | -0.790398284 | CYTH1,USP36 | |
| 19 | 54,225,000 | 54,375,000 | 724 | 720 | -0.067111852 | CYTH1,DNAH17 | |
| 19 | 54,300,000 | 54,450,000 | 725 | 939 | 0.416092164 | DNAH17,PGS1 | |
| 19 | 54,375,000 | 54,525,000 | 726 | 784 | 0.469092396 | DNAH17,PGS1,SOCS3 | |
| 19 | 54,450,000 | 54,600,000 | 727 | 761 | 0.138827349 | AFMID,BIRC5,SOCS3,TK1,TMEM235,ENSBTAG00000009029 | |
| 19 | 54,525,000 | 54,675,000 | 728 | 1032 | -0.360980177 | AFMID,BIRC5,SYNGR2,TK1,TMC6,TMC8,TMEM235,TNRC6C,ENSBTAG00000009029 | |
| 19 | 54,600,000 | 54,750,000 | 729 | 1004 | -0.581249936 | SYNGR2,TK1,TMC6,TMC8,TNRC6C | |
| 19 | 54,675,000 | 54,825,000 | 730 | 654 | -0.36408951 | TNRC6C | |
| 19 | 54,750,000 | 54,900,000 | 731 | 689 | -0.815803268 | | |
| 19 | 54,825,000 | 54,975,000 | 732 | 908 | -0.808222654 | | |
| 19 | 54,900,000 | 55,050,000 | 733 | 982 | -0.306211062 | | |
| 19 | 54,975,000 | 55,125,000 | 734 | 1191 | 0.285943592 | | 09-Sep |
| 19 | 55,050,000 | 55,200,000 | 735 | 1145 | 0.132695195 | | 09-Sep |
| 19 | 55,125,000 | 55,275,000 | 736 | 963 | 0.07258154 | | 09-Sep |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 55,200,000 | 55,350,000 | 737 | 1132 | 0.072123427 | SEC14L1 |
| 19 | 55,275,000 | 55,425,000 | 738 | 1195 | -0.880823586 | SEC14L1 |
| 19 | 55,350,000 | 55,500,000 | 739 | 1298 | -1.004796453 | SEC14L1 |
| 19 | 55,425,000 | 55,575,000 | 740 | 1179 | -1.113215014 | MGAT5B |
| 19 | 55,500,000 | 55,650,000 | 741 | 943 | -0.885509236 | MFSD11,MGAT5B |
| 19 | 55,575,000 | 55,725,000 | 742 | 953 | -0.019610183 | JMJD6,MFSD11,MGAT5B,SRSF2,ENSBTAG00000044138 |
| 19 | 55,650,000 | 55,800,000 | 743 | 1016 | 0.049805286 | JMJD6,MFSD11,SRSF2,ST6GALNAC1,ENSBTAG00000044138 |
| 19 | 55,725,000 | 55,875,000 | 744 | 795 | 0.103056666 | CYGB,PRCD,ST6GALNAC1,ST6GALNAC2 |
| 19 | 55,800,000 | 55,950,000 | 745 | 395 | 0.353996925 | AANAT,CYGB,PRCD,RHBDF2,ST6GALNAC2,UBE2O,ENSBTAG00000039119 |
| 19 | 55,875,000 | 56,025,000 | 746 | 591 | 0.150194151 | AANAT,PRPSAP1,RHBDF2,SPHK1,UBE2O,ENSBTAG00000039119 |
| 19 | 55,950,000 | 56,100,000 | 747 | 777 | 0.193252771 | PRPSAP1,QRICH2,SPHK1,UBALD2,UBE2O |
| 19 | 56,025,000 | 56,175,000 | 748 | 663 | -0.015760379 | FOXJ1,PRPSAP1,QRICH2,RNF157,UBALD2 |
| 19 | 56,100,000 | 56,250,000 | 749 | 685 | -0.343299464 | EXOC7,FOXJ1,GALR2,RNF157,SRP68,ZACN |
| 19 | 56,175,000 | 56,325,000 | 750 | 637 | -0.02571482 | ACOX1,CDK3,EVPL,EXOC7,FOXJ1,GALR2,SRP68,TEN1,ZACN |
| 19 | 56,250,000 | 56,400,000 | 751 | 567 | 0.297197323 | ACOX1,CDK3,EVPL,FBF1,MRPL38,TEN1,TRIM47,TRIM65,WBP2 |
| 19 | 56,325,000 | 56,475,000 | 752 | 560 | 0.00591387 | FBF1,GALK1,H3F3A,ITGB4,MRPL38,TRIM47,TRIM65,UNC13D,UNK,WBP2 |
| 19 | 56,400,000 | 56,550,000 | 753 | 774 | 0.006830226 | GALK1,H3F3A,ITGB4,SAP30BP,UNC13D,UNK,WBP2 |
| 19 | 56,475,000 | 56,625,000 | 754 | 894 | 0.275667778 | ITGB4,LLGL2,RECQL5,SAP30BP,SMIM5,SMIM6,ENSBTAG0000011713 |
| 19 | 56,550,000 | 56,700,000 | 755 | 740 | 0.537364322 | CASKIN2,KIAA0195,LLGL2,RECQL5,SMIM5,SMIM6,TSEN54,ENSBTAG00000011713 |
| 19 | 56,625,000 | 56,775,000 | 756 | 782 | 0.189612466 | CASKIN2,GRB2,KIAA0195,LLGL2,TSEN54 |
| 19 | 56,700,000 | 56,850,000 | 757 | 629 | -0.513107831 | GRB2,SLC25A19 |
| 19 | 56,775,000 | 56,925,000 | 758 | 410 | -0.370590031 | GGA3,GRB2,MIF4GD,MRPS7,NUP85,SLC25A19,SUMO2 |
| 19 | 56,850,000 | 57,000,000 | 759 | 364 | 0.167888105 | ARMC7,GGA3,HN1,MIF4GD,MRPS7,NT5C,NUP85,SLC16A5,SLC25A19,SUMO2,ENSBTAG00000026645 |
| 19 | 56,925,000 | 57,075,000 | 760 | 378 | 0.105819422 | ARMC7,ATP5H,CDR2L,HN1,ICT1,KCTD2,NT5C,SLC16A5,SUMO2,ENSBTAG00000026645 |
| 19 | 57,000,000 | 57,150,000 | 761 | 925 | 0.102155466 | ATP5H,CDR2L,FADS6,HID1,ICT1,KCTD2,OTOP2,OTOP3,USH1G,ENSBTAG00000017248 |
| 19 | 57,075,000 | 57,225,000 | 762 | 1115 | 0.117070063 | FADS6,FDXR,GRIN2C,HID1,OTOP2,OTOP3,USH1G,ENSBTAG00000017248 |
| 19 | 57,150,000 | 57,300,000 | 763 | 726 | 0.091191048 | FADS6,FDXR,GRIN2C,NAT9,RAB37,SLC9A3R1,TMEM104 |
| 19 | 57,225,000 | 57,375,000 | 764 | 500 | -0.499318392 | NAT9,RAB37,SLC9A3R1,TMEM104,ENSBTAG00000002773 |
| 19 | 57,300,000 | 57,450,000 | 765 | 541 | -0.791000255 | CD300E,RAB37,ENSBTAG00000002773 |
| 19 | 57,375,000 | 57,525,000 | 766 | 1407 | -0.140059863 | CD300E,RAB37,ENSBTAG00000024901,ENSBTAG00000046693 |
| 19 | 57,450,000 | 57,600,000 | 767 | 1952 | 0.27192006 | CD300LB,ENSBTAG00000008328,ENSBTAG00000024901,ENSBTAG00000046693 |
| 19 | 57,525,000 | 57,675,000 | 768 | 1586 | 0.434277549 | CD300LB,GPRC5C,ENSBTAG0000000812,ENSBTAG00000008328 |
| 19 | 57,600,000 | 57,750,000 | 769 | 1071 | -0.287757926 | BTBD17,GPR142,GPRC5C,KIF19,ENSBTAG0000000812 |
| 19 | 57,675,000 | 57,825,000 | 770 | 1128 | -0.646647649 | BTBD17,DNAI2,GPR142,KIF19,TTYH2 |
| 19 | 57,750,000 | 57,900,000 | 771 | 1262 | -0.276042347 | DNAI2,KIF19,RPL38,TTYH2 |
| 19 | 57,825,000 | 57,975,000 | 772 | 1120 | -0.354032314 | RPL38,TTYH2 |
| 19 | 57,900,000 | 58,050,000 | 773 | 1199 | -0.260608685 | |
| 19 | 57,975,000 | 58,125,000 | 774 | 962 | -0.611113882 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 58,050,000 | 58,200,000 | 775 | 898 | -0.816809918 | |
| 19 | 58,125,000 | 58,275,000 | 776 | 1012 | -0.348914416 | |
| 19 | 58,200,000 | 58,350,000 | 777 | 866 | -0.758488078 | |
| 19 | 58,275,000 | 58,425,000 | 778 | 1153 | 0.28223214 | |
| 19 | 58,350,000 | 58,500,000 | 779 | 1369 | 0.132105669 | SDK2 |
| 19 | 58,425,000 | 58,575,000 | 780 | 1395 | -0.193664785 | SDK2 |
| 19 | 58,500,000 | 58,650,000 | 781 | 1170 | 0.340642152 | C17orf80,CDC42EP4,SDK2 |
| 19 | 58,575,000 | 58,725,000 | 782 | 827 | -0.350733451 | C17orf80,CDC42EP4,COG1,MGC128049,SDK2,SSTR2 |
| 19 | 58,650,000 | 58,800,000 | 783 | 1078 | -0.627307347 | C17orf80,COG1,MGC128049,SLC39A11,SSTR2 |
| 19 | 58,725,000 | 58,875,000 | 784 | 1127 | -0.362007627 | SLC39A11 |
| 19 | 58,800,000 | 58,950,000 | 785 | 1417 | 0.10434799 | SLC39A11 |
| 19 | 58,875,000 | 59,025,000 | 786 | 1551 | -0.551253386 | SLC39A11 |
| 19 | 58,950,000 | 59,100,000 | 787 | 1141 | -1.413024166 | SLC39A11 |
| 19 | 59,025,000 | 59,175,000 | 788 | 796 | -0.55694414 | SLC39A11 |
| 19 | 59,100,000 | 59,250,000 | 789 | 489 | -0.064290244 | |
| 19 | 59,175,000 | 59,325,000 | 790 | 937 | 0.043027459 | |
| 19 | 59,250,000 | 59,400,000 | 791 | 1502 | 0.180325632 | |
| 19 | 59,325,000 | 59,475,000 | 792 | 1337 | 0.185188045 | |
| 19 | 59,400,000 | 59,550,000 | 793 | 984 | -0.462953872 | SOX9 |
| 19 | 59,475,000 | 59,625,000 | 794 | 1027 | -0.929849216 | SOX9 |
| 19 | 59,550,000 | 59,700,000 | 795 | 1040 | -0.518449253 | |
| 19 | 59,625,000 | 59,775,000 | 796 | 835 | 0.146238155 | |
| 19 | 59,700,000 | 59,850,000 | 797 | 1135 | 0.177301165 | |
| 19 | 59,775,000 | 59,925,000 | 798 | 1609 | 0.329186284 | |
| 19 | 59,850,000 | 60,000,000 | 799 | 1411 | -0.129929362 | |
| 19 | 59,925,000 | 60,075,000 | 800 | 1093 | 0.217146635 | |
| 19 | 60,000,000 | 60,150,000 | 801 | 891 | 0.714307765 | |
| 19 | 60,075,000 | 60,225,000 | 802 | 881 | -0.713891904 | |
| 19 | 60,150,000 | 60,300,000 | 803 | 913 | -1.034541141 | |
| 19 | 60,225,000 | 60,375,000 | 804 | 766 | -0.657780655 | |
| 19 | 60,300,000 | 60,450,000 | 805 | 774 | -0.253199587 | |
| 19 | 60,375,000 | 60,525,000 | 806 | 755 | 0.369276224 | |
| 19 | 60,450,000 | 60,600,000 | 807 | 1029 | -1.08971484 | |
| 19 | 60,525,000 | 60,675,000 | 808 | 945 | -1.698304368 | |
| 19 | 60,600,000 | 60,750,000 | 809 | 772 | 0.890264617 | |
| 19 | 60,675,000 | 60,825,000 | 810 | 842 | 0.865027269 | |
| 19 | 60,750,000 | 60,900,000 | 811 | 752 | 0.167124002 | |
| 19 | 60,825,000 | 60,975,000 | 812 | 1017 | -0.008228941 | |
| 19 | 60,900,000 | 61,050,000 | 813 | 1117 | -0.596894169 | |
| 19 | 60,975,000 | 61,125,000 | 814 | 991 | -0.898291206 | |
| 19 | 61,050,000 | 61,200,000 | 815 | 862 | 0.229946421 | KCNJ2 |
| 19 | 61,125,000 | 61,275,000 | 816 | 997 | -0.214989901 | KCNJ16,KCNJ2 |
| 19 | 61,200,000 | 61,350,000 | 817 | 1031 | -0.335988299 | KCNJ16 |
| 19 | 61,275,000 | 61,425,000 | 818 | 925 | -0.45670216 | |
| 19 | 61,350,000 | 61,500,000 | 819 | 946 | -0.446269991 | |
| 19 | 61,425,000 | 61,575,000 | 820 | 663 | -0.088186932 | |
| 19 | 61,500,000 | 61,650,000 | 821 | 595 | -0.429150227 | |
| 19 | 61,575,000 | 61,725,000 | 822 | 635 | -0.346452263 | MAP2K6 |
| 19 | 61,650,000 | 61,800,000 | 823 | 979 | -0.197102624 | MAP2K6 |
| 19 | 61,725,000 | 61,875,000 | 824 | 1080 | -0.290048263 | ABCA5,MAP2K6 |
| 19 | 61,800,000 | 61,950,000 | 825 | 671 | -0.108424006 | ABCA5,MAP2K6 |
| 19 | 61,875,000 | 62,025,000 | 826 | 787 | -0.550873813 | ABCA10,ABCA5 |
| 19 | 61,950,000 | 62,100,000 | 827 | 793 | -1.277576681 | ABCA10,ABCA6,ABCA9 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 62,025,000 | 62,175,000 | 828 | 830 | -0.932452482 | ABCA6,ABCA9 |
| 19 | 62,100,000 | 62,250,000 | 829 | 1131 | 0.179217235 | ABCA9,ENSBTAG00000024899 |
| 19 | 62,175,000 | 62,325,000 | 830 | 1062 | 0.675982709 | FAM20A,PRKAR1A,ENSBTAG00000024899 |
| 19 | 62,250,000 | 62,400,000 | 831 | 951 | -0.033510558 | ARSG,FAM20A,PRKAR1A |
| 19 | 62,325,000 | 62,475,000 | 832 | 902 | 0.078036104 | ARSG,MGC159964,PRKAR1A |
| 19 | 62,400,000 | 62,550,000 | 833 | 814 | -0.57186985 | AMZ2,ARSG,MGC159964,SLC16A6 |
| 19 | 62,475,000 | 62,625,000 | 834 | 745 | -1.026315028 | AMZ2,GNA13,RGS9,SLC16A6,ENSBTAG00000047055 |
| 19 | 62,550,000 | 62,700,000 | 835 | 818 | -1.778854836 | GNA13,RGS9,ENSBTAG00000047055 |
| 19 | 62,625,000 | 62,775,000 | 836 | 873 | -0.964916346 | RGS9 |
| 19 | 62,700,000 | 62,850,000 | 837 | 859 | 0.204321469 | AXIN2 |
| 19 | 62,775,000 | 62,925,000 | 838 | 939 | -0.215650656 | AXIN2 |
| 19 | 62,850,000 | 63,000,000 | 839 | 1000 | -0.053645921 | AXIN2 |
| 19 | 62,925,000 | 63,075,000 | 840 | 1081 | 0.402401638 | CEP112 |
| 19 | 63,000,000 | 63,150,000 | 841 | 1114 | 0.416125259 | CEP112 |
| 19 | 63,075,000 | 63,225,000 | 842 | 1182 | 0.387603253 | CEP112 |
| 19 | 63,150,000 | 63,300,000 | 843 | 1288 | 0.437026817 | APOH,CEP112 |
| 19 | 63,225,000 | 63,375,000 | 844 | 1352 | -0.047654263 | APOH |
| 19 | 63,300,000 | 63,450,000 | 845 | 1420 | -0.101861261 | |
| 19 | 63,375,000 | 63,525,000 | 846 | 1419 | 0.384548506 | PRKCA |
| 19 | 63,450,000 | 63,600,000 | 847 | 1269 | 0.004147788 | PRKCA |
| 19 | 63,525,000 | 63,675,000 | 848 | 1058 | -0.846884064 | CACNG5,PRKCA |
| 19 | 63,600,000 | 63,750,000 | 849 | 966 | -1.729742367 | CACNG1,CACNG4,CACNG5 |
| 19 | 63,675,000 | 63,825,000 | 850 | 798 | -3.393436398 | CACNG1,CACNG4,HELZ |
| 19 | 63,750,000 | 63,900,000 | 851 | 510 | -4.188188894 | HELZ |
| 19 | 63,825,000 | 63,975,000 | 852 | 480 | -3.269017647 | HELZ |
| 19 | 63,900,000 | 64,050,000 | 853 | 707 | -2.173288629 | HELZ |
| 19 | 63,975,000 | 64,057,457 | 854 | 456 | -1.691420884 | |
| 20 | 0 | 150,000 | 1 | 367 | 0.942613309 | ENSBTAG0000000617,ENSBTAG00000038364,ENSBTAG0000038537,ENSBTAG00000047333 |
| 20 | 75,000 | 225,000 | 2 | 683 | 0.530394832 | PANK3,SPZ1,ENSBTAG00000047333 |
| 20 | 150,000 | 300,000 | 3 | 1035 | 0.398690945 | PANK3,SPZ1 |
| 20 | 225,000 | 375,000 | 4 | 850 | 0.75603617 | SLIT3 |
| 20 | 300,000 | 450,000 | 5 | 1051 | 0.933616105 | SLIT3 |
| 20 | 375,000 | 525,000 | 6 | 1541 | 0.971138402 | SLIT3 |
| 20 | 450,000 | 600,000 | 7 | 1368 | 1.140505078 | SLIT3 |
| 20 | 525,000 | 675,000 | 8 | 1100 | 0.965586505 | |
| 20 | 600,000 | 750,000 | 9 | 1422 | 0.550342817 | |
| 20 | 675,000 | 825,000 | 10 | 1941 | 0.397277245 | |
| 20 | 750,000 | 900,000 | 11 | 1630 | 0.330407198 | |
| 20 | 825,000 | 975,000 | 12 | 1149 | 0.720279032 | |
| 20 | 900,000 | 1,050,000 | 13 | 909 | 0.993879749 | |
| 20 | 975,000 | 1,125,000 | 14 | 865 | 0.727052455 | |
| 20 | 1,050,000 | 1,200,000 | 15 | 740 | 0.526333312 | |
| 20 | 1,125,000 | 1,275,000 | 16 | 440 | 0.276551505 | |
| 20 | 1,200,000 | 1,350,000 | 17 | 614 | 0.98055418 | |
| 20 | 1,275,000 | 1,425,000 | 18 | 767 | 1.375558313 | SPDL1 |
| 20 | 1,350,000 | 1,500,000 | 19 | 860 | 1.040985014 | DOCK2,SPDL1 |
| 20 | 1,425,000 | 1,575,000 | 20 | 1102 | -0.510378446 | DOCK2 |
| 20 | 1,500,000 | 1,650,000 | 21 | 1182 | -1.186080447 | DOCK2 |
| 20 | 1,575,000 | 1,725,000 | 22 | 1268 | -1.135657634 | DOCK2,FAM196B |
| 20 | 1,650,000 | 1,800,000 | 23 | 1179 | -0.979498688 | DOCK2,FAM196B |
| 20 | 1,725,000 | 1,875,000 | 24 | 903 | 0.220144716 | DOCK2 |
| 20 | 1,800,000 | 1,950,000 | 25 | 989 | 0.125514159 | DOCK2,FOX11,ENSBTAG00000046449 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 20 | 1,875,000 | 2,025,000 | 26 | 947 | 0.028604642 | DOCK2,FOXI1,ENSBTAG00000046449 |
| 20 | 1,950,000 | 2,100,000 | 27 | 797 | 0.920897469 | LCP2 |
| 20 | 2,025,000 | 2,175,000 | 28 | 640 | 0.661360669 | KCNMB1,LCP2 |
| 20 | 2,100,000 | 2,250,000 | 29 | 579 | 0.497699542 | KCNMB1 |
| 20 | 2,175,000 | 2,325,000 | 30 | 1007 | 0.557256065 | KCNIP1 |
| 20 | 2,250,000 | 2,400,000 | 31 | 1109 | -0.209443525 | KCNIP1 |
| 20 | 2,325,000 | 2,475,000 | 32 | 1161 | -0.660877417 | KCNIP1 |
| 20 | 2,400,000 | 2,550,000 | 33 | 1181 | 0.073665651 | KCNIP1 |
| 20 | 2,475,000 | 2,625,000 | 34 | 1081 | 0.293946314 | GABRP,KCNIP1 |
| 20 | 2,550,000 | 2,700,000 | 35 | 928 | 0.072694947 | GABRP,RANBP17 |
| 20 | 2,625,000 | 2,775,000 | 36 | 582 | -0.087224543 | RANBP17 |
| 20 | 2,700,000 | 2,850,000 | 37 | 434 | -0.377583091 | RANBP17 |
| 20 | 2,775,000 | 2,925,000 | 38 | 504 | 0.138042721 | RANBP17 |
| 20 | 2,850,000 | 3,000,000 | 39 | 560 | 0.668448267 | RANBP17 |
| 20 | 2,925,000 | 3,075,000 | 40 | 798 | 0.75716488 | RANBP17,TLX3,ENSBTAG00000022684 |
| 20 | 3,000,000 | 3,150,000 | 41 | 1012 | 0.554683001 | FGF18,NPM1,RANBP17,TLX3,ENSBTAG00000022684 |
| 20 | 3,075,000 | 3,225,000 | 42 | 855 | 0.292561542 | FGF18,NPM1 |
| 20 | 3,150,000 | 3,300,000 | 43 | 956 | 0.428826599 | FGF18 |
| 20 | 3,225,000 | 3,375,000 | 44 | 801 | 0.124382525 | |
| 20 | 3,300,000 | 3,450,000 | 45 | 443 | -0.716096733 | |
| 20 | 3,375,000 | 3,525,000 | 46 | 344 | -1.248613881 | SMIM23 |
| 20 | 3,450,000 | 3,600,000 | 47 | 328 | -0.928514657 | FBXW11,SMIM23 |
| 20 | 3,525,000 | 3,675,000 | 48 | 374 | -0.281077956 | FBXW11 |
| 20 | 3,600,000 | 3,750,000 | 49 | 275 | -0.316749512 | FBXW11 |
| 20 | 3,675,000 | 3,825,000 | 50 | 429 | -0.985477747 | STK10 |
| 20 | 3,750,000 | 3,900,000 | 51 | 569 | -1.329975523 | EFCAB9,STK10 |
| 20 | 3,825,000 | 3,975,000 | 52 | 383 | -1.828232197 | EFCAB9,STK10,UBTD2 |
| 20 | 3,900,000 | 4,050,000 | 53 | 275 | -1.922549715 | SH3PXD2B,UBTD2 |
| 20 | 3,975,000 | 4,125,000 | 54 | 510 | -1.809256877 | SH3PXD2B |
| 20 | 4,050,000 | 4,200,000 | 55 | 632 | -1.795282065 | SH3PXD2B |
| 20 | 4,125,000 | 4,275,000 | 56 | 535 | -1.557890452 | |
| 20 | 4,200,000 | 4,350,000 | 57 | 478 | -1.864556694 | NEURL1B |
| 20 | 4,275,000 | 4,425,000 | 58 | 412 | -0.576026228 | NEURL1B |
| 20 | 4,350,000 | 4,500,000 | 59 | 345 | 0.849613123 | DUSP1,NEURL1B |
| 20 | 4,425,000 | 4,575,000 | 60 | 485 | -0.576885166 | DUSP1,ERGIC1 |
| 20 | 4,500,000 | 4,650,000 | 61 | 584 | -1.03317032 | ATP6V0E1,ERGIC1,RPL26L1 |
| 20 | 4,575,000 | 4,725,000 | 62 | 285 | -1.577288578 | ATP6V0E1,CREBRF,ERGIC1,RPL26L1 |
| 20 | 4,650,000 | 4,800,000 | 63 | 164 | -2.440462981 | ATP6V0E1,BNIP1,CREBRF |
| 20 | 4,725,000 | 4,875,000 | 64 | 276 | -1.520070288 | BNIP1,CREBRF,NKX2-5 |
| 20 | 4,800,000 | 4,950,000 | 65 | 541 | -0.422985837 | NKX2-5,STC2 |
| 20 | 4,875,000 | 5,025,000 | 66 | 598 | 0.551090362 | STC2 |
| 20 | 4,950,000 | 5,100,000 | 67 | 401 | 0.670547028 | |
| 20 | 5,025,000 | 5,175,000 | 68 | 295 | -0.275032578 | |
| 20 | 5,100,000 | 5,250,000 | 69 | 621 | 0.275907916 | BOD1 |
| 20 | 5,175,000 | 5,325,000 | 70 | 761 | 0.10769574 | BOD1 |
| 20 | 5,250,000 | 5,400,000 | 71 | 645 | -0.334437009 | |
| 20 | 5,325,000 | 5,475,000 | 72 | 663 | 0.049849549 | |
| 20 | 5,400,000 | 5,550,000 | 73 | 524 | 0.670409817 | CPEB4 |
| 20 | 5,475,000 | 5,625,000 | 74 | 577 | 0.604266351 | CPEB4 |
| 20 | 5,550,000 | 5,700,000 | 75 | 715 | 0.178165702 | CPEB4,NSG2 |
| 20 | 5,625,000 | 5,775,000 | 76 | 901 | -0.266495389 | NSG2 |
| 20 | 5,700,000 | 5,850,000 | 77 | 1210 | 0.131536707 | NSG2 |
| 20 | 5,775,000 | 5,925,000 | 78 | 1550 | 0.185498858 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 20 | 5,850,000 | 6,000,000 | 79 | 1561 | 0.491969033 | |
| 20 | 5,925,000 | 6,075,000 | 80 | 1138 | 0.146264451 | |
| 20 | 6,000,000 | 6,150,000 | 81 | 851 | -0.159528181 | |
| 20 | 6,075,000 | 6,225,000 | 82 | 767 | 0.811199122 | |
| 20 | 6,150,000 | 6,300,000 | 83 | 750 | -0.079306944 | |
| 20 | 6,225,000 | 6,375,000 | 84 | 656 | -0.105541567 | MSX2 |
| 20 | 6,300,000 | 6,450,000 | 85 | 444 | 0.229234646 | MSX2 |
| 20 | 6,375,000 | 6,525,000 | 86 | 855 | 0.22330644 | |
| 20 | 6,450,000 | 6,600,000 | 87 | 947 | 0.111298794 | FAM169A |
| 20 | 6,525,000 | 6,675,000 | 88 | 653 | -0.403286932 | FAM169A,GFM2,NSA2 |
| 20 | 6,600,000 | 6,750,000 | 89 | 870 | 0.400595088 | FAM169A,GFM2,NSA2,ENSBTAG00000015512 |
| 20 | 6,675,000 | 6,825,000 | 90 | 977 | 0.058462397 | GFM2,ENSBTAG00000015512,ENSBTAG00000034138 |
| 20 | 6,750,000 | 6,900,000 | 91 | 1027 | 0.108608557 | ENC1,ENSBTAG00000015512,ENSBTAG00000034138 |
| 20 | 6,825,000 | 6,975,000 | 92 | 1433 | 0.984516538 | ENC1 |
| 20 | 6,900,000 | 7,050,000 | 93 | 1260 | -0.067203473 | |
| 20 | 6,975,000 | 7,125,000 | 94 | 1087 | -0.832262584 | |
| 20 | 7,050,000 | 7,200,000 | 95 | 1236 | 0.381595863 | |
| 20 | 7,125,000 | 7,275,000 | 96 | 639 | 0.163230839 | |
| 20 | 7,200,000 | 7,350,000 | 97 | 328 | 0.870277067 | |
| 20 | 7,275,000 | 7,425,000 | 98 | 555 | 0.776951828 | |
| 20 | 7,350,000 | 7,500,000 | 99 | 626 | 0.864528805 | |
| 20 | 7,425,000 | 7,575,000 | 100 | 506 | 0.862530873 | |
| 20 | 7,500,000 | 7,650,000 | 101 | 454 | 0.560688324 | RGNEF |
| 20 | 7,575,000 | 7,725,000 | 102 | 681 | 0.438267727 | RGNEF |
| 20 | 7,650,000 | 7,800,000 | 103 | 698 | 0.24356854 | RGNEF |
| 20 | 7,725,000 | 7,875,000 | 104 | 812 | -0.126212559 | |
| 20 | 7,800,000 | 7,950,000 | 105 | 989 | -0.590697432 | |
| 20 | 7,875,000 | 8,025,000 | 106 | 803 | -0.770042553 | ANKRA2,UTP15 |
| 20 | 7,950,000 | 8,100,000 | 107 | 830 | -0.349451426 | ANKRA2,BTF3,CALM,UTP15 |
| 20 | 8,025,000 | 8,175,000 | 108 | 617 | -0.332028677 | BTF3,CALM |
| 20 | 8,100,000 | 8,250,000 | 109 | 412 | -0.91766516 | |
| 20 | 8,175,000 | 8,325,000 | 110 | 686 | -1.396256553 | |
| 20 | 8,250,000 | 8,400,000 | 111 | 892 | -0.681482024 | TMEM174 |
| 20 | 8,325,000 | 8,475,000 | 112 | 950 | 0.343304473 | FCHO2,TMEM171,TMEM174 |
| 20 | 8,400,000 | 8,550,000 | 113 | 842 | 0.581682557 | FCHO2,TMEM171 |
| 20 | 8,475,000 | 8,625,000 | 114 | 888 | 0.427430476 | FCHO2 |
| 20 | 8,550,000 | 8,700,000 | 115 | 902 | 0.138954691 | FCHO2,TNPO1 |
| 20 | 8,625,000 | 8,775,000 | 116 | 668 | -0.259244372 | TNPO1 |
| 20 | 8,700,000 | 8,850,000 | 117 | 854 | 0.028742708 | SUBH2BV |
| 20 | 8,775,000 | 8,925,000 | 118 | 1016 | 0.136796124 | SUBH2BV |
| 20 | 8,850,000 | 9,000,000 | 119 | 1093 | 0.299185442 | |
| 20 | 8,925,000 | 9,075,000 | 120 | 948 | 0.391905595 | |
| 20 | 9,000,000 | 9,150,000 | 121 | 735 | 0.780137932 | ZNF366 |
| 20 | 9,075,000 | 9,225,000 | 122 | 985 | 1.049892132 | MRPS27,PTCD2,ZNF366 |
| 20 | 9,150,000 | 9,300,000 | 123 | 823 | 0.882111142 | MRPS27,PTCD2 |
| 20 | 9,225,000 | 9,375,000 | 124 | 510 | 0.528705452 | MAP1B,MRPS27 |
| 20 | 9,300,000 | 9,450,000 | 125 | 546 | 0.499618303 | MAP1B,MRPS27 |
| 20 | 9,375,000 | 9,525,000 | 126 | 601 | -0.856797234 | MAP1B |
| 20 | 9,450,000 | 9,600,000 | 127 | 748 | -1.305881627 | |
| 20 | 9,525,000 | 9,675,000 | 128 | 1059 | -0.077535258 | |
| 20 | 9,600,000 | 9,750,000 | 129 | 978 | -0.154036599 | |
| 20 | 9,675,000 | 9,825,000 | 130 | 683 | -0.027130914 | CARTPT |
| 20 | 9,750,000 | 9,900,000 | 131 | 596 | 0.141677337 | CARTPT,MCCC2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 20 | 9,825,000 | 9,975,000 | 132 | 841 | -1.086255327 | BDP1,MCCC2 |
| 20 | 9,900,000 | 10,050,000 | 133 | 954 | -1.149136512 | BDP1,MCCC2,SERF1,SMN1 |
| 20 | 9,975,000 | 10,125,000 | 134 | 529 | 0.054890448 | BDP1,NAIP,SERF1,SMN1 |
| 20 | 10,050,000 | 10,200,000 | 135 | 484 | -0.009014417 | GTF2H2,NAIP,OCLN,SMN1 |
| 20 | 10,125,000 | 10,275,000 | 136 | 718 | 0.455046025 | GTF2H2,MARVELD2,OCLN,RAD17 |
| 20 | 10,200,000 | 10,350,000 | 137 | 615 | 0.511927174 | AK6,CCDC125,MARVELD2,OCLN,RAD17,TAF9 |
| 20 | 10,275,000 | 10,425,000 | 138 | 365 | -0.186860959 | AK6,CCDC125,CDK7,CENPH,MRPS36,RAD17,TAF9 |
| 20 | 10,350,000 | 10,500,000 | 139 | 308 | -0.069693622 | CCDC125,CCNB1,CDK7,CENPH,MRPS36,SLC30A5 |
| 20 | 10,425,000 | 10,575,000 | 140 | 655 | 0.126826216 | CCNB1,CENPH,SLC30A5 |
| 20 | 10,500,000 | 10,650,000 | 141 | 899 | 0.314822734 | |
| 20 | 10,575,000 | 10,725,000 | 142 | 994 | 0.65984732 | |
| 20 | 10,650,000 | 10,800,000 | 143 | 829 | 0.428458653 | |
| 20 | 10,725,000 | 10,875,000 | 144 | 596 | 0.203261728 | |
| 20 | 10,800,000 | 10,950,000 | 145 | 635 | 0.162754556 | |
| 20 | 10,875,000 | 11,025,000 | 146 | 896 | 0.203933132 | |
| 20 | 10,950,000 | 11,100,000 | 147 | 1284 | 0.669997623 | |
| 20 | 11,025,000 | 11,175,000 | 148 | 1140 | 0.583489249 | |
| 20 | 11,100,000 | 11,250,000 | 149 | 979 | 0.243716539 | |
| 20 | 11,175,000 | 11,325,000 | 150 | 1164 | 0.787896913 | |
| 20 | 11,250,000 | 11,400,000 | 151 | 1061 | 1.027759968 | PIK3R1 |
| 20 | 11,325,000 | 11,475,000 | 152 | 811 | 0.586364357 | PIK3R1 |
| 20 | 11,400,000 | 11,550,000 | 153 | 872 | 0.442763849 | PIK3R1 |
| 20 | 11,475,000 | 11,625,000 | 154 | 892 | 0.474921362 | |
| 20 | 11,550,000 | 11,700,000 | 155 | 1015 | 0.626165702 | |
| 20 | 11,625,000 | 11,775,000 | 156 | 1035 | 0.391707246 | DYNLL1 |
| 20 | 11,700,000 | 11,850,000 | 157 | 611 | 0.193995724 | DYNLL1 |
| 20 | 11,775,000 | 11,925,000 | 158 | 577 | 1.068594184 | |
| 20 | 11,850,000 | 12,000,000 | 159 | 592 | 1.166117972 | |
| 20 | 11,925,000 | 12,075,000 | 160 | 668 | 1.12468279 | |
| 20 | 12,000,000 | 12,150,000 | 161 | 1028 | 0.506257431 | |
| 20 | 12,075,000 | 12,225,000 | 162 | 966 | -0.170216482 | |
| 20 | 12,150,000 | 12,300,000 | 163 | 701 | -0.348067834 | |
| 20 | 12,225,000 | 12,375,000 | 164 | 827 | -0.200231423 | CD180 |
| 20 | 12,300,000 | 12,450,000 | 165 | 1056 | -0.21829377 | CD180,MAST4 |
| 20 | 12,375,000 | 12,525,000 | 166 | 772 | -0.163759483 | MAST4 |
| 20 | 12,450,000 | 12,600,000 | 167 | 594 | 0.402826522 | MAST4 |
| 20 | 12,525,000 | 12,675,000 | 168 | 759 | 0.768162871 | |
| 20 | 12,600,000 | 12,750,000 | 169 | 807 | 0.34962391 | |
| 20 | 12,675,000 | 12,825,000 | 170 | 732 | 0.218637957 | |
| 20 | 12,750,000 | 12,900,000 | 171 | 726 | -0.11316229 | |
| 20 | 12,825,000 | 12,975,000 | 172 | 791 | -0.492251926 | |
| 20 | 12,900,000 | 13,050,000 | 173 | 852 | -0.080051485 | |
| 20 | 12,975,000 | 13,125,000 | 174 | 791 | 0.625866253 | |
| 20 | 13,050,000 | 13,200,000 | 175 | 602 | 1.039436735 | |
| 20 | 13,125,000 | 13,275,000 | 176 | 551 | 0.829188125 | |
| 20 | 13,200,000 | 13,350,000 | 177 | 740 | -0.258627687 | |
| 20 | 13,275,000 | 13,425,000 | 178 | 791 | -0.269927813 | SREK1 |
| 20 | 13,350,000 | 13,500,000 | 179 | 504 | 0.692527799 | ERBB2IP,SREK1 |
| 20 | 13,425,000 | 13,575,000 | 180 | 426 | 0.978743932 | ERBB2IP,SREK1 |
| 20 | 13,500,000 | 13,650,000 | 181 | 467 | 1.02493188 | ERBB2IP |
| 20 | 13,575,000 | 13,725,000 | 182 | 498 | 0.776478762 | NLN |
| 20 | 13,650,000 | 13,800,000 | 183 | 439 | 0.562996193 | NLN |
| 20 | 13,725,000 | 13,875,000 | 184 | 565 | 0.416647635 | NLN,SGTB,TRAPPC13 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 20 | 13,800,000 | 13,950,000 | 185 | 539 | 0.328257497 | PPWD1,SGTB,TRAPPC13,TRIM23,ENSBTAG00000047828 |
| 20 | 13,875,000 | 14,025,000 | 186 | 189 | -0.615722326 | ADAMTS6,CENPK,PPWD1,TRAPPC13,TRIM23,ENSBTAG000046810,ENSBTAG00000047828 |
| 20 | 13,950,000 | 14,100,000 | 187 | 153 | -0.70852305 | ADAMTS6,CENPK,PPWD1,ENSBTAG00000046810 |
| 20 | 14,025,000 | 14,175,000 | 188 | 141 | -0.579123392 | ADAMTS6 |
| 20 | 14,100,000 | 14,250,000 | 189 | 138 | -0.810027129 | ADAMTS6 |
| 20 | 14,175,000 | 14,325,000 | 190 | 194 | -0.807310785 | ADAMTS6 |
| 20 | 14,250,000 | 14,400,000 | 191 | 288 | -0.280037353 | ADAMTS6 |
| 20 | 14,325,000 | 14,475,000 | 192 | 278 | -0.18998884 | CWC27 |
| 20 | 14,400,000 | 14,550,000 | 193 | 197 | 0.4339903 | CWC27 |
| 20 | 14,475,000 | 14,625,000 | 194 | 245 | 0.94484986 | CWC27 |
| 20 | 14,550,000 | 14,700,000 | 195 | 315 | 0.713491025 | CWC27,SREK1IP1 |
| 20 | 14,625,000 | 14,775,000 | 196 | 276 | 0.931381149 | CWC27,FAM159B,SREK1IP1 |
| 20 | 14,700,000 | 14,850,000 | 197 | 230 | 1.116710076 | FAM159B,RGS7BP,SREK1IP1 |
| 20 | 14,775,000 | 14,925,000 | 198 | 281 | 1.028646378 | RGS7BP |
| 20 | 14,850,000 | 15,000,000 | 199 | 335 | 0.407990566 | RGS7BP |
| 20 | 14,925,000 | 15,075,000 | 200 | 350 | 0.600569199 | RGS7BP |
| 20 | 15,000,000 | 15,150,000 | 201 | 551 | 0.933520335 | RNF180 |
| 20 | 15,075,000 | 15,225,000 | 202 | 608 | 0.720998231 | RNF180 |
| 20 | 15,150,000 | 15,300,000 | 203 | 468 | -0.127387456 | RNF180 |
| 20 | 15,225,000 | 15,375,000 | 204 | 402 | -1.106174358 | RNF180 |
| 20 | 15,300,000 | 15,450,000 | 205 | 571 | -0.305528054 | RNF180 |
| 20 | 15,375,000 | 15,525,000 | 206 | 826 | 0.34699041 | |
| 20 | 15,450,000 | 15,600,000 | 207 | 858 | 0.699136845 | 5HTR1A |
| 20 | 15,525,000 | 15,675,000 | 208 | 1053 | 0.68736028 | 5HTR1A |
| 20 | 15,600,000 | 15,750,000 | 209 | 1216 | 0.501910526 | |
| 20 | 15,675,000 | 15,825,000 | 210 | 974 | 0.607457928 | |
| 20 | 15,750,000 | 15,900,000 | 211 | 799 | 0.784100253 | |
| 20 | 15,825,000 | 15,975,000 | 212 | 671 | 0.556905972 | |
| 20 | 15,900,000 | 16,050,000 | 213 | 676 | 0.505608707 | |
| 20 | 15,975,000 | 16,125,000 | 214 | 775 | 0.555663125 | |
| 20 | 16,050,000 | 16,200,000 | 215 | 799 | 0.814967636 | |
| 20 | 16,125,000 | 16,275,000 | 216 | 1043 | 0.694121818 | |
| 20 | 16,200,000 | 16,350,000 | 217 | 1292 | 0.3278208 | |
| 20 | 16,275,000 | 16,425,000 | 218 | 1418 | 0.554356734 | |
| 20 | 16,350,000 | 16,500,000 | 219 | 1370 | 0.029055001 | |
| 20 | 16,425,000 | 16,575,000 | 220 | 1108 | -1.066507167 | |
| 20 | 16,500,000 | 16,650,000 | 221 | 893 | 0.074644721 | |
| 20 | 16,575,000 | 16,725,000 | 222 | 695 | 0.115561974 | |
| 20 | 16,650,000 | 16,800,000 | 223 | 971 | 0.114270772 | IPO11 |
| 20 | 16,725,000 | 16,875,000 | 224 | 872 | 0.671884391 | IPO11 |
| 20 | 16,800,000 | 16,950,000 | 225 | 463 | -0.604510087 | IPO11 |
| 20 | 16,875,000 | 17,025,000 | 226 | 493 | -0.167709536 | DIMT1,IPO11,KIF2A |
| 20 | 16,950,000 | 17,100,000 | 227 | 357 | 0.689410323 | DIMT1,IPO11,KIF2A |
| 20 | 17,025,000 | 17,175,000 | 228 | 439 | 0.380041893 | KIF2A |
| 20 | 17,100,000 | 17,250,000 | 229 | 882 | -0.081379674 | |
| 20 | 17,175,000 | 17,325,000 | 230 | 846 | -0.084635394 | |
| 20 | 17,250,000 | 17,400,000 | 231 | 734 | 0.893401198 | |
| 20 | 17,325,000 | 17,475,000 | 232 | 740 | 1.144923718 | |
| 20 | 17,400,000 | 17,550,000 | 233 | 453 | 0.87462072 | |
| 20 | 17,475,000 | 17,625,000 | 234 | 430 | 0.50217236 | |
| 20 | 17,550,000 | 17,700,000 | 235 | 530 | 0.207002438 | |
| 20 | 17,625,000 | 17,775,000 | 236 | 731 | -0.593031314 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 20 | 17,700,000 | 17,850,000 | 237 | 896 | -0.257813928 | ZSWIM6 |
| 20 | 17,775,000 | 17,925,000 | 238 | 617 | 0.66367057 | ZSWIM6 |
| 20 | 17,850,000 | 18,000,000 | 239 | 285 | 0.714521911 | ZSWIM6 |
| 20 | 17,925,000 | 18,075,000 | 240 | 280 | -0.62848088 | |
| 20 | 18,000,000 | 18,150,000 | 241 | 283 | -1.550188886 | |
| 20 | 18,075,000 | 18,225,000 | 242 | 441 | -1.580041317 | NDUFAF2 |
| 20 | 18,150,000 | 18,300,000 | 243 | 801 | -1.593863465 | NDUFAF2 |
| 20 | 18,225,000 | 18,375,000 | 244 | 866 | -0.658549514 | ERCC8,NDUFAF2 |
| 20 | 18,300,000 | 18,450,000 | 245 | 872 | 0.501058838 | ERCC8,NDUFAF2 |
| 20 | 18,375,000 | 18,525,000 | 246 | 753 | 0.445785876 | ELOVL7,ERCC8 |
| 20 | 18,450,000 | 18,600,000 | 247 | 802 | 0.901158057 | DEPDC1B,ELOVL7 |
| 20 | 18,525,000 | 18,675,000 | 248 | 851 | 1.145734218 | DEPDC1B,ELOVL7 |
| 20 | 18,600,000 | 18,750,000 | 249 | 713 | 0.865047468 | DEPDC1B |
| 20 | 18,675,000 | 18,825,000 | 250 | 793 | 0.707232967 | |
| 20 | 18,750,000 | 18,900,000 | 251 | 864 | 0.735856244 | |
| 20 | 18,825,000 | 18,975,000 | 252 | 1352 | -0.774336703 | |
| 20 | 18,900,000 | 19,050,000 | 253 | 1398 | -0.941839389 | |
| 20 | 18,975,000 | 19,125,000 | 254 | 922 | 0.001251339 | |
| 20 | 19,050,000 | 19,200,000 | 255 | 980 | 0.619656664 | |
| 20 | 19,125,000 | 19,275,000 | 256 | 1062 | 0.885806319 | |
| 20 | 19,200,000 | 19,350,000 | 257 | 909 | 0.544592977 | |
| 20 | 19,275,000 | 19,425,000 | 258 | 664 | 0.098925251 | |
| 20 | 19,350,000 | 19,500,000 | 259 | 702 | 0.688823235 | |
| 20 | 19,425,000 | 19,575,000 | 260 | 796 | 0.584595399 | |
| 20 | 19,500,000 | 19,650,000 | 261 | 576 | -0.112819112 | |
| 20 | 19,575,000 | 19,725,000 | 262 | 843 | 0.020428392 | |
| 20 | 19,650,000 | 19,800,000 | 263 | 1024 | 0.249654737 | |
| 20 | 19,725,000 | 19,875,000 | 264 | 743 | 0.598680246 | |
| 20 | 19,800,000 | 19,950,000 | 265 | 619 | 0.918561691 | |
| 20 | 19,875,000 | 20,025,000 | 266 | 790 | 0.533187704 | |
| 20 | 19,950,000 | 20,100,000 | 267 | 860 | 0.167675733 | ENSBTAG00000039486 |
| 20 | 20,025,000 | 20,175,000 | 268 | 721 | 0.154646835 | ENSBTAG00000039486 |
| 20 | 20,100,000 | 20,250,000 | 269 | 590 | -0.277906737 | ENSBTAG00000039486 |
| 20 | 20,175,000 | 20,325,000 | 270 | 390 | -0.646691117 | PDE4D,ENSBTAG00000039486 |
| 20 | 20,250,000 | 20,400,000 | 271 | 591 | -0.70985183 | PDE4D |
| 20 | 20,325,000 | 20,475,000 | 272 | 979 | -0.095142695 | RAB3C |
| 20 | 20,400,000 | 20,550,000 | 273 | 1077 | 0.859261081 | RAB3C |
| 20 | 20,475,000 | 20,625,000 | 274 | 879 | 0.462813514 | RAB3C,ENSBTAG0000005229 |
| 20 | 20,550,000 | 20,700,000 | 275 | 839 | 0.066535239 | RAB3C,ENSBTAG0000005229 |
| 20 | 20,625,000 | 20,775,000 | 276 | 937 | 0.456491235 | RAB3C |
| 20 | 20,700,000 | 20,850,000 | 277 | 1042 | -0.068534542 | GAPT,RAB3C |
| 20 | 20,775,000 | 20,925,000 | 278 | 908 | 0.156904268 | GAPT,PLK2 |
| 20 | 20,850,000 | 21,000,000 | 279 | 680 | 0.375145886 | PLK2 |
| 20 | 20,925,000 | 21,075,000 | 280 | 962 | 0.719587585 | |
| 20 | 21,000,000 | 21,150,000 | 281 | 985 | 0.141807571 | |
| 20 | 21,075,000 | 21,225,000 | 282 | 990 | -0.433919068 | |
| 20 | 21,150,000 | 21,300,000 | 283 | 977 | 0.460238793 | |
| 20 | 21,225,000 | 21,375,000 | 284 | 1092 | 0.926662642 | |
| 20 | 21,300,000 | 21,450,000 | 285 | 1069 | 0.978815394 | |
| 20 | 21,375,000 | 21,525,000 | 286 | 850 | 0.557304616 | |
| 20 | 21,450,000 | 21,600,000 | 287 | 1200 | 0.364047547 | |
| 20 | 21,525,000 | 21,675,000 | 288 | 1556 | 0.10431578 | |
| 20 | 21,600,000 | 21,750,000 | 289 | 1642 | 0.018257027 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 21,675,000 | 21,825,000 | 290 | 1365 | 0.275075344 | |
| 20 | 21,750,000 | 21,900,000 | 291 | 1196 | -1.762382527 | |
| 20 | 21,825,000 | 21,975,000 | 292 | 1098 | -1.943178648 | ENSBTAG00000026505 |
| 20 | 21,900,000 | 22,050,000 | 293 | 809 | 0.657135698 | GPBP1,ENSBTAG00000026505 |
| 20 | 21,975,000 | 22,125,000 | 294 | 804 | 0.660964863 | GPBP1 |
| 20 | 22,050,000 | 22,200,000 | 295 | 881 | -0.087589332 | GPBP1,ENSBTAG00000047548 |
| 20 | 22,125,000 | 22,275,000 | 296 | 877 | -0.692440891 | ENSBTAG00000047548 |
| 20 | 22,200,000 | 22,350,000 | 297 | 909 | -0.554208131 | MIER3,SETD9 |
| 20 | 22,275,000 | 22,425,000 | 298 | 793 | -0.031739944 | MAP3K1,MIER3,SETD9 |
| 20 | 22,350,000 | 22,500,000 | 299 | 743 | 0.763367244 | MAP3K1 |
| 20 | 22,425,000 | 22,575,000 | 300 | 762 | 0.968784666 | MAP3K1 |
| 20 | 22,500,000 | 22,650,000 | 301 | 595 | 0.100773744 | |
| 20 | 22,575,000 | 22,725,000 | 302 | 698 | -2.493240066 | |
| 20 | 22,650,000 | 22,800,000 | 303 | 976 | -0.473128949 | |
| 20 | 22,725,000 | 22,875,000 | 304 | 941 | 0.812079215 | |
| 20 | 22,800,000 | 22,950,000 | 305 | 727 | 0.067560662 | |
| 20 | 22,875,000 | 23,025,000 | 306 | 721 | -0.606426138 | ANKRD55 |
| 20 | 22,950,000 | 23,100,000 | 307 | 797 | -0.436341321 | ANKRD55 |
| 20 | 23,025,000 | 23,175,000 | 308 | 639 | -0.496967096 | ANKRD55 |
| 20 | 23,100,000 | 23,250,000 | 309 | 518 | 0.598740632 | ANKRD55,IL6ST |
| 20 | 23,175,000 | 23,325,000 | 310 | 551 | 0.955824846 | IL31RA,IL6ST |
| 20 | 23,250,000 | 23,400,000 | 311 | 733 | 0.989995488 | DDX4,IL31RA,IL6ST |
| 20 | 23,325,000 | 23,475,000 | 312 | 970 | 1.069795411 | DDX4,IL31RA,SLC38A9 |
| 20 | 23,400,000 | 23,550,000 | 313 | 763 | 1.010507669 | DDX4,SLC38A9 |
| 20 | 23,475,000 | 23,625,000 | 314 | 446 | -0.328685977 | SLC38A9 |
| 20 | 23,550,000 | 23,700,000 | 315 | 345 | -0.17244571 | PPAP2A,SLC38A9 |
| 20 | 23,625,000 | 23,775,000 | 316 | 282 | 1.070828833 | PPAP2A,SKIV2L2 |
| 20 | 23,700,000 | 23,850,000 | 317 | 281 | 0.967257705 | PPAP2A,SKIV2L2 |
| 20 | 23,775,000 | 23,925,000 | 318 | 535 | 0.385413767 | CCNO,DHX29,PPAP2A,SKIV2L2 |
| 20 | 23,850,000 | 24,000,000 | 319 | 744 | 0.775345767 | CCNO,CDC20B,DHX29,GPX8,MCIDAS,SKIV2L2 |
| 20 | 23,925,000 | 24,075,000 | 320 | 715 | 1.183159277 | CCNO,CDC20B,GPX8,GZMA,MCIDAS |
| 20 | 24,000,000 | 24,150,000 | 321 | 674 | 0.979678366 | CDC20B,ESM1,GZMA,GZMK |
| 20 | 24,075,000 | 24,225,000 | 322 | 703 | 1.124103414 | ESM1,GZMK |
| 20 | 24,150,000 | 24,300,000 | 323 | 558 | 1.102376546 | ENSBTAG00000003200 |
| 20 | 24,225,000 | 24,375,000 | 324 | 293 | 0.524607145 | ENSBTAG00000003200 |
| 20 | 24,300,000 | 24,450,000 | 325 | 386 | 0.191739367 | COX8A |
| 20 | 24,375,000 | 24,525,000 | 326 | 592 | -0.102293695 | COX8A |
| 20 | 24,450,000 | 24,600,000 | 327 | 591 | -0.191195116 | SNX18 |
| 20 | 24,525,000 | 24,675,000 | 328 | 634 | -2.200482766 | HSPB3,SNX18 |
| 20 | 24,600,000 | 24,750,000 | 329 | 581 | -2.532212082 | HSPB3 |
| 20 | 24,675,000 | 24,825,000 | 330 | 696 | -1.317191268 | |
| 20 | 24,750,000 | 24,900,000 | 331 | 884 | -0.575785147 | |
| 20 | 24,825,000 | 24,975,000 | 332 | 565 | -0.121118901 | ARL15 |
| 20 | 24,900,000 | 25,050,000 | 333 | 450 | 0.259074544 | ARL15 |
| 20 | 24,975,000 | 25,125,000 | 334 | 348 | 0.743636452 | ARL15 |
| 20 | 25,050,000 | 25,200,000 | 335 | 105 | 0.725362333 | |
| 20 | 25,125,000 | 25,275,000 | 336 | 125 | 0.572534451 | |
| 20 | 25,200,000 | 25,350,000 | 337 | 490 | -0.791026633 | |
| 20 | 25,275,000 | 25,425,000 | 338 | 876 | -0.736251893 | NDUFS4 |
| 20 | 25,350,000 | 25,500,000 | 339 | 637 | -0.242244312 | NDUFS4 |
| 20 | 25,425,000 | 25,575,000 | 340 | 406 | -0.059359223 | NDUFS4 |
| 20 | 25,500,000 | 25,650,000 | 341 | 533 | -0.909049121 | FST,NDUFS4,ENSBTAG00000046997 |
| 20 | 25,575,000 | 25,725,000 | 342 | 679 | 0.45509845 | FST,ENSBTAG00000046997 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 20 | 25,650,000 | 25,800,000 | 343 | 864 | 0.443030573 | |
| 20 | 25,725,000 | 25,875,000 | 344 | 772 | 0.28520477 | |
| 20 | 25,800,000 | 25,950,000 | 345 | 553 | 0.588338067 | |
| 20 | 25,875,000 | 26,025,000 | 346 | 475 | 0.495652981 | ITGA2,MOCS2 |
| 20 | 25,950,000 | 26,100,000 | 347 | 513 | 0.102152349 | ITGA2,MOCS2 |
| 20 | 26,025,000 | 26,175,000 | 348 | 501 | -0.353820385 | ITGA1,ITGA2,ENSBTAG00000046575 |
| 20 | 26,100,000 | 26,250,000 | 349 | 323 | 0.927401471 | ITGA1,ENSBTAG00000046575 |
| 20 | 26,175,000 | 26,325,000 | 350 | 393 | 0.576616898 | ITGA1,PELO |
| 20 | 26,250,000 | 26,400,000 | 351 | 915 | 0.12947558 | PELO |
| 20 | 26,325,000 | 26,475,000 | 352 | 1066 | 0.137145972 | |
| 20 | 26,400,000 | 26,550,000 | 353 | 781 | 0.265538512 | |
| 20 | 26,475,000 | 26,625,000 | 354 | 673 | 0.281605084 | |
| 20 | 26,550,000 | 26,700,000 | 355 | 700 | -0.814635483 | |
| 20 | 26,625,000 | 26,775,000 | 356 | 748 | -0.266376402 | |
| 20 | 26,700,000 | 26,850,000 | 357 | 828 | 0.30221441 | |
| 20 | 26,775,000 | 26,925,000 | 358 | 632 | -0.243710533 | |
| 20 | 26,850,000 | 27,000,000 | 359 | 660 | 0.855449826 | |
| 20 | 26,925,000 | 27,075,000 | 360 | 998 | 0.115001887 | |
| 20 | 27,000,000 | 27,150,000 | 361 | 721 | -0.563378538 | |
| 20 | 27,075,000 | 27,225,000 | 362 | 674 | 0.503027603 | |
| 20 | 27,150,000 | 27,300,000 | 363 | 687 | 1.039772475 | |
| 20 | 27,225,000 | 27,375,000 | 364 | 491 | 1.03335538 | |
| 20 | 27,300,000 | 27,450,000 | 365 | 695 | 0.847774741 | |
| 20 | 27,375,000 | 27,525,000 | 366 | 672 | 0.398467665 | |
| 20 | 27,450,000 | 27,600,000 | 367 | 1003 | -0.17743262 | |
| 20 | 27,525,000 | 27,675,000 | 368 | 1222 | 0.121129185 | |
| 20 | 27,600,000 | 27,750,000 | 369 | 605 | 0.526763235 | ISL1 |
| 20 | 27,675,000 | 27,825,000 | 370 | 429 | 0.095445566 | ISL1 |
| 20 | 27,750,000 | 27,900,000 | 371 | 489 | 0.309625338 | ISL1 |
| 20 | 27,825,000 | 27,975,000 | 372 | 445 | 0.779463291 | |
| 20 | 27,900,000 | 28,050,000 | 373 | 734 | -2.500671324 | |
| 20 | 27,975,000 | 28,125,000 | 374 | 685 | -3.001032097 | |
| 20 | 28,050,000 | 28,200,000 | 375 | 389 | -1.134212873 | |
| 20 | 28,125,000 | 28,275,000 | 376 | 534 | -3.005064931 | |
| 20 | 28,200,000 | 28,350,000 | 377 | 726 | -2.665560566 | PARP8 |
| 20 | 28,275,000 | 28,425,000 | 378 | 802 | -2.242626808 | PARP8 |
| 20 | 28,350,000 | 28,500,000 | 379 | 659 | -1.109987994 | PARP8 |
| 20 | 28,425,000 | 28,575,000 | 380 | 418 | -1.173564549 | PARP8 |
| 20 | 28,500,000 | 28,650,000 | 381 | 488 | -4.111170955 | PARP8 |
| 20 | 28,575,000 | 28,725,000 | 382 | 410 | -2.403814284 | EMB |
| 20 | 28,650,000 | 28,800,000 | 383 | 340 | 1.162159746 | EMB |
| 20 | 28,725,000 | 28,875,000 | 384 | 552 | 0.944071979 | EMB |
| 20 | 28,800,000 | 28,950,000 | 385 | 705 | 0.487487872 | |
| 20 | 28,875,000 | 29,025,000 | 386 | 675 | 0.419159411 | |
| 20 | 28,950,000 | 29,100,000 | 387 | 544 | 0.261607964 | |
| 20 | 29,025,000 | 29,175,000 | 388 | 777 | -0.690627809 | HCN1 |
| 20 | 29,100,000 | 29,250,000 | 389 | 897 | -1.450114662 | HCN1 |
| 20 | 29,175,000 | 29,325,000 | 390 | 1011 | -2.173645283 | HCN1 |
| 20 | 29,250,000 | 29,400,000 | 391 | 953 | -1.892237819 | HCN1 |
| 20 | 29,325,000 | 29,475,000 | 392 | 497 | -0.766177262 | HCN1 |
| 20 | 29,400,000 | 29,550,000 | 393 | 346 | -0.213599075 | HCN1 |
| 20 | 29,475,000 | 29,625,000 | 394 | 344 | 0.152230458 | HCN1 |
| 20 | 29,550,000 | 29,700,000 | 395 | 519 | 0.455319873 | HCN1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 29,625,000 | 29,775,000 | 396 | 1090 | -0.305614101 | |
| 20 | 29,700,000 | 29,850,000 | 397 | 1125 | -0.465045155 | |
| 20 | 29,775,000 | 29,925,000 | 398 | 799 | -2.744206921 | |
| 20 | 29,850,000 | 30,000,000 | 399 | 1131 | -4.233823142 | |
| 20 | 29,925,000 | 30,075,000 | 400 | 857 | -3.016691143 | MRPS30 |
| 20 | 30,000,000 | 30,150,000 | 401 | 298 | -0.335894921 | MRPS30 |
| 20 | 30,075,000 | 30,225,000 | 402 | 311 | -0.437148112 | MRPS30 |
| 20 | 30,150,000 | 30,300,000 | 403 | 311 | -0.186840782 | |
| 20 | 30,225,000 | 30,375,000 | 404 | 409 | -0.657210111 | |
| 20 | 30,300,000 | 30,450,000 | 405 | 425 | -0.014927447 | ENSBTAG00000011657 |
| 20 | 30,375,000 | 30,525,000 | 406 | 239 | 0.968812911 | ENSBTAG00000011657 |
| 20 | 30,450,000 | 30,600,000 | 407 | 168 | -1.566237549 | |
| 20 | 30,525,000 | 30,675,000 | 408 | 337 | 0.11193598 | |
| 20 | 30,600,000 | 30,750,000 | 409 | 482 | 1.22498418 | |
| 20 | 30,675,000 | 30,825,000 | 410 | 348 | 1.072622781 | |
| 20 | 30,750,000 | 30,900,000 | 411 | 170 | -0.081073448 | |
| 20 | 30,825,000 | 30,975,000 | 412 | 257 | 0.941941481 | |
| 20 | 30,900,000 | 31,050,000 | 413 | 299 | 1.107366428 | |
| 20 | 30,975,000 | 31,125,000 | 414 | 189 | 1.037542633 | |
| 20 | 31,050,000 | 31,200,000 | 415 | 213 | 1.123475751 | NNT,ENSBTAG00000033187 |
| 20 | 31,125,000 | 31,275,000 | 416 | 267 | 0.990372058 | NNT,ENSBTAG00000033187 |
| 20 | 31,200,000 | 31,350,000 | 417 | 268 | -0.063745013 | C20H5orf34,NNT,PAIP1 |
| 20 | 31,275,000 | 31,425,000 | 418 | 404 | 0.728019804 | C20H5orf34,C5orf28,CCL28,PAIP1 |
| 20 | 31,350,000 | 31,500,000 | 419 | 511 | 1.002124327 | C20H5orf34,C5orf28,CCL28,HMGCS1,NIM1K |
| 20 | 31,425,000 | 31,575,000 | 420 | 451 | 0.307650347 | HMGCS1,NIM1K,ZNF131 |
| 20 | 31,500,000 | 31,650,000 | 421 | 493 | 0.027360535 | NIM1K,ZNF131 |
| 20 | 31,575,000 | 31,725,000 | 422 | 959 | 0.965661485 | ZNF131 |
| 20 | 31,650,000 | 31,800,000 | 423 | 1216 | 1.094182588 | CCDC152 |
| 20 | 31,725,000 | 31,875,000 | 424 | 1220 | 0.71203119 | CCDC152 |
| 20 | 31,800,000 | 31,950,000 | 425 | 971 | 0.465286281 | CCDC152,GHR |
| 20 | 31,875,000 | 32,025,000 | 426 | 725 | 0.022910693 | GHR |
| 20 | 31,950,000 | 32,100,000 | 427 | 980 | 0.069427599 | GHR |
| 20 | 32,025,000 | 32,175,000 | 428 | 1027 | 0.914730677 | GHR |
| 20 | 32,100,000 | 32,250,000 | 429 | 638 | 1.269552723 | GHR |
| 20 | 32,175,000 | 32,325,000 | 430 | 284 | 1.019973501 | GHR |
| 20 | 32,250,000 | 32,400,000 | 431 | 221 | 0.84497813 | |
| 20 | 32,325,000 | 32,475,000 | 432 | 248 | 0.198684387 | |
| 20 | 32,400,000 | 32,550,000 | 433 | 288 | -0.429894338 | |
| 20 | 32,475,000 | 32,625,000 | 434 | 285 | -0.29824776 | FBXO4 |
| 20 | 32,550,000 | 32,700,000 | 435 | 441 | 0.236513291 | C5orf51,FBXO4,OXCT1 |
| 20 | 32,625,000 | 32,775,000 | 436 | 545 | -0.366961763 | C5orf51,OXCT1 |
| 20 | 32,700,000 | 32,850,000 | 437 | 474 | -0.327183159 | OXCT1 |
| 20 | 32,775,000 | 32,925,000 | 438 | 665 | 0.133386125 | OXCT1 |
| 20 | 32,850,000 | 33,000,000 | 439 | 967 | 0.092980276 | |
| 20 | 32,925,000 | 33,075,000 | 440 | 591 | -0.20583171 | PLCXD3 |
| 20 | 33,000,000 | 33,150,000 | 441 | 433 | -1.96791466 | PLCXD3 |
| 20 | 33,075,000 | 33,225,000 | 442 | 614 | -1.806688433 | PLCXD3 |
| 20 | 33,150,000 | 33,300,000 | 443 | 518 | -1.673335385 | PLCXD3 |
| 20 | 33,225,000 | 33,375,000 | 444 | 545 | -2.465667772 | C6,PLCXD3 |
| 20 | 33,300,000 | 33,450,000 | 445 | 986 | -1.100796236 | C6 |
| 20 | 33,375,000 | 33,525,000 | 446 | 1376 | 0.201181587 | C6,MROH2B |
| 20 | 33,450,000 | 33,600,000 | 447 | 1311 | -1.355459586 | C7,MROH2B |
| 20 | 33,525,000 | 33,675,000 | 448 | 976 | -2.879668281 | C7,CARD6,MROH2B,RPL37 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 20 | 33,600,000 | 33,750,000 | 449 | 660 | -2.164307607 | C7,CARD6,PRKAA1,RPL37,TTC33 |
| 20 | 33,675,000 | 33,825,000 | 450 | 587 | -0.058341479 | PRKAA1,PTGER4,TTC33 |
| 20 | 33,750,000 | 33,900,000 | 451 | 485 | -0.045753874 | PTGER4 |
| 20 | 33,825,000 | 33,975,000 | 452 | 579 | -0.285388955 | |
| 20 | 33,900,000 | 34,050,000 | 453 | 690 | -0.028329234 | |
| 20 | 33,975,000 | 34,125,000 | 454 | 570 | -1.297155561 | |
| 20 | 34,050,000 | 34,200,000 | 455 | 568 | -2.481756194 | |
| 20 | 34,125,000 | 34,275,000 | 456 | 604 | -1.618359716 | |
| 20 | 34,200,000 | 34,350,000 | 457 | 530 | -0.693393227 | |
| 20 | 34,275,000 | 34,425,000 | 458 | 750 | -1.562420464 | |
| 20 | 34,350,000 | 34,500,000 | 459 | 916 | -0.599217807 | |
| 20 | 34,425,000 | 34,575,000 | 460 | 1091 | 0.585885856 | |
| 20 | 34,500,000 | 34,650,000 | 461 | 1218 | 0.647060119 | |
| 20 | 34,575,000 | 34,725,000 | 462 | 1126 | 0.682980014 | |
| 20 | 34,650,000 | 34,800,000 | 463 | 1110 | 0.930958813 | |
| 20 | 34,725,000 | 34,875,000 | 464 | 924 | 0.640976419 | |
| 20 | 34,800,000 | 34,950,000 | 465 | 853 | -0.587773967 | |
| 20 | 34,875,000 | 35,025,000 | 466 | 731 | -1.424368175 | DAB2 |
| 20 | 34,950,000 | 35,100,000 | 467 | 612 | -1.306385529 | C9,DAB2 |
| 20 | 35,025,000 | 35,175,000 | 468 | 744 | 0.293340598 | C9,DAB2 |
| 20 | 35,100,000 | 35,250,000 | 469 | 512 | 0.078213495 | C9,FYB |
| 20 | 35,175,000 | 35,325,000 | 470 | 301 | -0.665684321 | FYB |
| 20 | 35,250,000 | 35,400,000 | 471 | 436 | -0.309630373 | FYB,RICTOR |
| 20 | 35,325,000 | 35,475,000 | 472 | 423 | 0.361467631 | FYB,RICTOR |
| 20 | 35,400,000 | 35,550,000 | 473 | 329 | -1.338531701 | OSMR,RICTOR |
| 20 | 35,475,000 | 35,625,000 | 474 | 529 | -1.168909829 | OSMR,RICTOR |
| 20 | 35,550,000 | 35,700,000 | 475 | 615 | -0.434499602 | OSMR |
| 20 | 35,625,000 | 35,775,000 | 476 | 528 | 0.244277018 | |
| 20 | 35,700,000 | 35,850,000 | 477 | 585 | 0.122022031 | |
| 20 | 35,775,000 | 35,925,000 | 478 | 559 | -0.042406509 | LIFR |
| 20 | 35,850,000 | 36,000,000 | 479 | 415 | -0.812342106 | EGFLAM,LIFR |
| 20 | 35,925,000 | 36,075,000 | 480 | 674 | 0.245046808 | EGFLAM,LIFR |
| 20 | 36,000,000 | 36,150,000 | 481 | 1297 | 0.09732584 | EGFLAM |
| 20 | 36,075,000 | 36,225,000 | 482 | 1264 | -0.158274008 | EGFLAM |
| 20 | 36,150,000 | 36,300,000 | 483 | 1129 | 0.500682655 | EGFLAM |
| 20 | 36,225,000 | 36,375,000 | 484 | 1218 | -0.024316792 | |
| 20 | 36,300,000 | 36,450,000 | 485 | 903 | -0.738460001 | |
| 20 | 36,375,000 | 36,525,000 | 486 | 557 | -0.164681778 | |
| 20 | 36,450,000 | 36,600,000 | 487 | 581 | 0.347204297 | |
| 20 | 36,525,000 | 36,675,000 | 488 | 561 | -0.094914352 | GDNF |
| 20 | 36,600,000 | 36,750,000 | 489 | 518 | -1.524221934 | GDNF,WDR70 |
| 20 | 36,675,000 | 36,825,000 | 490 | 524 | -3.013853427 | WDR70 |
| 20 | 36,750,000 | 36,900,000 | 491 | 615 | -2.520831776 | WDR70 |
| 20 | 36,825,000 | 36,975,000 | 492 | 568 | -1.641974746 | WDR70 |
| 20 | 36,900,000 | 37,050,000 | 493 | 318 | -1.069910809 | NUP155,WDR70 |
| 20 | 36,975,000 | 37,125,000 | 494 | 329 | -0.039553034 | C5orf42,NUP155,WDR70 |
| 20 | 37,050,000 | 37,200,000 | 495 | 647 | -2.524999238 | C5orf42,NIPBL |
| 20 | 37,125,000 | 37,275,000 | 496 | 609 | -3.598397079 | C5orf42,NIPBL |
| 20 | 37,200,000 | 37,350,000 | 497 | 220 | -4.192585687 | NIPBL |
| 20 | 37,275,000 | 37,425,000 | 498 | 344 | -2.536003789 | NIPBL |
| 20 | 37,350,000 | 37,500,000 | 499 | 660 | -3.481961237 | ENSBTAG00000047208 |
| 20 | 37,425,000 | 37,575,000 | 500 | 532 | -2.984492284 | ENSBTAG00000047208 |
| 20 | 37,500,000 | 37,650,000 | 501 | 441 | 0.065624496 | SLC1A3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 20 | 37,575,000 | 37,725,000 | 502 | 576 | 0.330039687 | SLC1A3 |
| 20 | 37,650,000 | 37,800,000 | 503 | 433 | 0.198250461 | SLC1A3 |
| 20 | 37,725,000 | 37,875,000 | 504 | 434 | 0.248959305 | |
| 20 | 37,800,000 | 37,950,000 | 505 | 601 | 0.519331715 | |
| 20 | 37,875,000 | 38,025,000 | 506 | 503 | 0.336644012 | RANBP3L |
| 20 | 37,950,000 | 38,100,000 | 507 | 334 | -0.258711597 | NADK2,RANBP3L,SKP2 |
| 20 | 38,025,000 | 38,175,000 | 508 | 323 | 0.054727338 | LMBRD2,NADK2,SKP2 |
| 20 | 38,100,000 | 38,250,000 | 509 | 480 | 0.315813245 | LMBRD2,SKP2,UGT3A1 |
| 20 | 38,175,000 | 38,325,000 | 510 | 533 | 0.187662985 | CAPSL,UGT3A1 |
| 20 | 38,250,000 | 38,400,000 | 511 | 402 | -0.035194823 | CAPSL,IL7R |
| 20 | 38,325,000 | 38,475,000 | 512 | 308 | -0.461166937 | IL7R,SPEF2 |
| 20 | 38,400,000 | 38,550,000 | 513 | 230 | -1.23703222 | SPEF2 |
| 20 | 38,475,000 | 38,625,000 | 514 | 269 | -1.860741836 | SPEF2 |
| 20 | 38,550,000 | 38,700,000 | 515 | 359 | -0.472653251 | SPEF2 |
| 20 | 38,625,000 | 38,775,000 | 516 | 453 | 0.194524184 | |
| 20 | 38,700,000 | 38,850,000 | 517 | 427 | 0.010272562 | |
| 20 | 38,775,000 | 38,925,000 | 518 | 639 | 0.247629796 | |
| 20 | 38,850,000 | 39,000,000 | 519 | 861 | 0.319062038 | |
| 20 | 38,925,000 | 39,075,000 | 520 | 581 | 0.563940882 | PRLR |
| 20 | 39,000,000 | 39,150,000 | 521 | 388 | 0.644389737 | PRLR |
| 20 | 39,075,000 | 39,225,000 | 522 | 449 | 0.349389867 | AGXT2,PRLR |
| 20 | 39,150,000 | 39,300,000 | 523 | 529 | 0.34446398 | AGXT2,BRIX1,DNAJC21,RAD1,TTC23L |
| 20 | 39,225,000 | 39,375,000 | 524 | 380 | -0.112553855 | BRIX1,DNAJC21,RAD1,RAI14,TTC23L |
| 20 | 39,300,000 | 39,450,000 | 525 | 411 | 0.699816467 | RAI14,TTC23L |
| 20 | 39,375,000 | 39,525,000 | 526 | 508 | 0.761766024 | RAI14 |
| 20 | 39,450,000 | 39,600,000 | 527 | 399 | -0.024298545 | |
| 20 | 39,525,000 | 39,675,000 | 528 | 622 | 0.538873326 | |
| 20 | 39,600,000 | 39,750,000 | 529 | 634 | 0.571848273 | |
| 20 | 39,675,000 | 39,825,000 | 530 | 565 | -0.251616148 | AMACR,C1QTNF3 |
| 20 | 39,750,000 | 39,900,000 | 531 | 743 | -0.251707773 | AMACR,C1QTNF3,RXFP3,SLC45A2 |
| 20 | 39,825,000 | 39,975,000 | 532 | 738 | 0.403774838 | ADAMTS12,RXFP3,SLC45A2 |
| 20 | 39,900,000 | 40,050,000 | 533 | 616 | 0.561159996 | ADAMTS12 |
| 20 | 39,975,000 | 40,125,000 | 534 | 659 | 0.62787871 | ADAMTS12 |
| 20 | 40,050,000 | 40,200,000 | 535 | 927 | 0.549181876 | ADAMTS12 |
| 20 | 40,125,000 | 40,275,000 | 536 | 1015 | 0.4744725 | ADAMTS12 |
| 20 | 40,200,000 | 40,350,000 | 537 | 666 | 0.6603034 | ADAMTS12,TARS |
| 20 | 40,275,000 | 40,425,000 | 538 | 445 | 0.875778025 | ADAMTS12,TARS |
| 20 | 40,350,000 | 40,500,000 | 539 | 671 | 0.803885427 | TARS |
| 20 | 40,425,000 | 40,575,000 | 540 | 634 | 0.404410561 | |
| 20 | 40,500,000 | 40,650,000 | 541 | 459 | -0.784240773 | |
| 20 | 40,575,000 | 40,725,000 | 542 | 645 | -2.187339736 | |
| 20 | 40,650,000 | 40,800,000 | 543 | 814 | -0.904497641 | |
| 20 | 40,725,000 | 40,875,000 | 544 | 785 | -0.787147758 | |
| 20 | 40,800,000 | 40,950,000 | 545 | 688 | -5.260420725 | |
| 20 | 40,875,000 | 41,025,000 | 546 | 685 | -6.765934941 | NPR3 |
| 20 | 40,950,000 | 41,100,000 | 547 | 675 | -4.12201554 | NPR3 |
| 20 | 41,025,000 | 41,175,000 | 548 | 529 | 0.395587247 | NPR3,SUB1 |
| 20 | 41,100,000 | 41,250,000 | 549 | 360 | 0.639798999 | SUB1 |
| 20 | 41,175,000 | 41,325,000 | 550 | 257 | -0.12914613 | ZFR |
| 20 | 41,250,000 | 41,400,000 | 551 | 242 | -0.041863973 | MTMR12,ZFR |
| 20 | 41,325,000 | 41,475,000 | 552 | 303 | 0.214802581 | MTMR12,ZFR |
| 20 | 41,400,000 | 41,550,000 | 553 | 283 | -0.291783082 | GOLPH3,MTMR12 |
| 20 | 41,475,000 | 41,625,000 | 554 | 289 | 0.003961481 | GOLPH3,ENSBTAG00000014455 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 20 | 41,550,000 | 41,700,000 | 555 | 401 | 0.309692227 | GOLPH3,ENSBTAG00000014455 |
| 20 | 41,625,000 | 41,775,000 | 556 | 503 | -2.003444562 | ENSBTAG00000014455 |
| 20 | 41,700,000 | 41,850,000 | 557 | 422 | -1.639962072 | ENSBTAG00000038985 |
| 20 | 41,775,000 | 41,925,000 | 558 | 394 | 0.615842724 | ENSBTAG00000038985 |
| 20 | 41,850,000 | 42,000,000 | 559 | 428 | 0.27891471 | |
| 20 | 41,925,000 | 42,075,000 | 560 | 537 | 0.150420584 | C20H5ORF22,DROSHA |
| 20 | 42,000,000 | 42,150,000 | 561 | 876 | -1.045140839 | C20H5ORF22,DROSHA |
| 20 | 42,075,000 | 42,225,000 | 562 | 927 | -2.275884884 | DROSHA |
| 20 | 42,150,000 | 42,300,000 | 563 | 808 | -1.646356312 | CDH6,DROSHA |
| 20 | 42,225,000 | 42,375,000 | 564 | 570 | -0.834969128 | CDH6 |
| 20 | 42,300,000 | 42,450,000 | 565 | 415 | -2.440715869 | CDH6 |
| 20 | 42,375,000 | 42,525,000 | 566 | 384 | -3.306655306 | CDH6 |
| 20 | 42,450,000 | 42,600,000 | 567 | 336 | -0.606211615 | |
| 20 | 42,525,000 | 42,675,000 | 568 | 463 | -0.089350413 | |
| 20 | 42,600,000 | 42,750,000 | 569 | 521 | -0.367207957 | |
| 20 | 42,675,000 | 42,825,000 | 570 | 482 | 0.206073146 | |
| 20 | 42,750,000 | 42,900,000 | 571 | 532 | 0.278048969 | |
| 20 | 42,825,000 | 42,975,000 | 572 | 852 | 0.389948234 | |
| 20 | 42,900,000 | 43,050,000 | 573 | 905 | 0.707286404 | |
| 20 | 42,975,000 | 43,125,000 | 574 | 575 | -0.206875328 | |
| 20 | 43,050,000 | 43,200,000 | 575 | 653 | -0.628893368 | |
| 20 | 43,125,000 | 43,275,000 | 576 | 783 | -0.307867805 | |
| 20 | 43,200,000 | 43,350,000 | 577 | 950 | -0.134051452 | |
| 20 | 43,275,000 | 43,425,000 | 578 | 1000 | 0.384361197 | |
| 20 | 43,350,000 | 43,500,000 | 579 | 875 | -0.653486041 | |
| 20 | 43,425,000 | 43,575,000 | 580 | 1127 | -0.935361331 | |
| 20 | 43,500,000 | 43,650,000 | 581 | 1229 | 0.024096641 | |
| 20 | 43,575,000 | 43,725,000 | 582 | 1033 | 0.002319335 | |
| 20 | 43,650,000 | 43,800,000 | 583 | 1267 | -0.080519511 | |
| 20 | 43,725,000 | 43,875,000 | 584 | 1088 | 0.30268207 | |
| 20 | 43,800,000 | 43,950,000 | 585 | 649 | -0.070722956 | |
| 20 | 43,875,000 | 44,025,000 | 586 | 1148 | 0.29207096 | |
| 20 | 43,950,000 | 44,100,000 | 587 | 1471 | -0.441686892 | |
| 20 | 44,025,000 | 44,175,000 | 588 | 1195 | -1.251910418 | |
| 20 | 44,100,000 | 44,250,000 | 589 | 928 | -0.222850638 | |
| 20 | 44,175,000 | 44,325,000 | 590 | 996 | 0.594572948 | |
| 20 | 44,250,000 | 44,400,000 | 591 | 1172 | 0.363234354 | |
| 20 | 44,325,000 | 44,475,000 | 592 | 1214 | -0.695265521 | |
| 20 | 44,400,000 | 44,550,000 | 593 | 1090 | -1.533113182 | |
| 20 | 44,475,000 | 44,625,000 | 594 | 1082 | -1.472126351 | |
| 20 | 44,550,000 | 44,700,000 | 595 | 1209 | -1.490858703 | |
| 20 | 44,625,000 | 44,775,000 | 596 | 1223 | -1.120495765 | |
| 20 | 44,700,000 | 44,850,000 | 597 | 1080 | 0.20443291 | |
| 20 | 44,775,000 | 44,925,000 | 598 | 957 | -0.8889048 | |
| 20 | 44,850,000 | 45,000,000 | 599 | 980 | -1.710942163 | |
| 20 | 44,925,000 | 45,075,000 | 600 | 833 | -1.194085578 | |
| 20 | 45,000,000 | 45,150,000 | 601 | 1037 | 0.438155703 | |
| 20 | 45,075,000 | 45,225,000 | 602 | 884 | 0.500548748 | |
| 20 | 45,150,000 | 45,300,000 | 603 | 452 | 0.25799029 | |
| 20 | 45,225,000 | 45,375,000 | 604 | 852 | -1.82358519 | |
| 20 | 45,300,000 | 45,450,000 | 605 | 790 | -2.080374704 | |
| 20 | 45,375,000 | 45,525,000 | 606 | 964 | -0.415638691 | |
| 20 | 45,450,000 | 45,600,000 | 607 | 1299 | -0.332697072 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 20 | 45,525,000 | 45,675,000 | 608 | 986 | -0.464297137 | |
| 20 | 45,600,000 | 45,750,000 | 609 | 1155 | 0.619827629 | |
| 20 | 45,675,000 | 45,825,000 | 610 | 958 | 0.878620972 | |
| 20 | 45,750,000 | 45,900,000 | 611 | 736 | 0.527630043 | |
| 20 | 45,825,000 | 45,975,000 | 612 | 1102 | -0.203099134 | |
| 20 | 45,900,000 | 46,050,000 | 613 | 1154 | -0.948186229 | |
| 20 | 45,975,000 | 46,125,000 | 614 | 1086 | -0.876130512 | |
| 20 | 46,050,000 | 46,200,000 | 615 | 1075 | 0.02728212 | |
| 20 | 46,125,000 | 46,275,000 | 616 | 940 | 0.694165546 | |
| 20 | 46,200,000 | 46,350,000 | 617 | 1121 | 0.646207423 | |
| 20 | 46,275,000 | 46,425,000 | 618 | 1143 | 0.548734926 | |
| 20 | 46,350,000 | 46,500,000 | 619 | 829 | 0.196469029 | |
| 20 | 46,425,000 | 46,575,000 | 620 | 892 | 0.34602836 | |
| 20 | 46,500,000 | 46,650,000 | 621 | 765 | 0.627839854 | |
| 20 | 46,575,000 | 46,725,000 | 622 | 521 | 0.848294199 | |
| 20 | 46,650,000 | 46,800,000 | 623 | 807 | 0.472523405 | CDH9 |
| 20 | 46,725,000 | 46,875,000 | 624 | 824 | 0.204276895 | CDH9 |
| 20 | 46,800,000 | 46,950,000 | 625 | 487 | -0.192858892 | |
| 20 | 46,875,000 | 47,025,000 | 626 | 443 | -0.235606959 | |
| 20 | 46,950,000 | 47,100,000 | 627 | 538 | -0.750874318 | |
| 20 | 47,025,000 | 47,175,000 | 628 | 613 | -0.087090434 | |
| 20 | 47,100,000 | 47,250,000 | 629 | 737 | 0.435093142 | ENSBTAG00000048105 |
| 20 | 47,175,000 | 47,325,000 | 630 | 895 | 0.629608982 | ENSBTAG00000048105 |
| 20 | 47,250,000 | 47,400,000 | 631 | 1162 | 0.771801382 | |
| 20 | 47,325,000 | 47,475,000 | 632 | 1450 | 0.865547937 | |
| 20 | 47,400,000 | 47,550,000 | 633 | 1195 | 0.94173821 | |
| 20 | 47,475,000 | 47,625,000 | 634 | 827 | -0.87565836 | |
| 20 | 47,550,000 | 47,700,000 | 635 | 730 | -2.254102817 | |
| 20 | 47,625,000 | 47,775,000 | 636 | 863 | 0.04480745 | |
| 20 | 47,700,000 | 47,850,000 | 637 | 994 | 0.344999435 | |
| 20 | 47,775,000 | 47,925,000 | 638 | 1159 | 0.131435938 | |
| 20 | 47,850,000 | 48,000,000 | 639 | 1395 | -0.404390178 | ENSBTAG00000045813 |
| 20 | 47,925,000 | 48,075,000 | 640 | 1360 | -0.481592713 | ENSBTAG00000045813 |
| 20 | 48,000,000 | 48,150,000 | 641 | 1042 | -0.50027419 | |
| 20 | 48,075,000 | 48,225,000 | 642 | 630 | -1.042711491 | |
| 20 | 48,150,000 | 48,300,000 | 643 | 459 | -0.262850679 | |
| 20 | 48,225,000 | 48,375,000 | 644 | 469 | -0.434166177 | |
| 20 | 48,300,000 | 48,450,000 | 645 | 521 | -0.198072775 | |
| 20 | 48,375,000 | 48,525,000 | 646 | 581 | 0.368048207 | |
| 20 | 48,450,000 | 48,600,000 | 647 | 640 | -1.301638057 | |
| 20 | 48,525,000 | 48,675,000 | 648 | 757 | -0.904037167 | |
| 20 | 48,600,000 | 48,750,000 | 649 | 623 | 0.371485109 | |
| 20 | 48,675,000 | 48,825,000 | 650 | 503 | -0.33802475 | |
| 20 | 48,750,000 | 48,900,000 | 651 | 845 | -0.885139106 | CDH10 |
| 20 | 48,825,000 | 48,975,000 | 652 | 1243 | -3.921641924 | CDH10 |
| 20 | 48,900,000 | 49,050,000 | 653 | 923 | -5.117836569 | CDH10 |
| 20 | 48,975,000 | 49,125,000 | 654 | 407 | -2.062536809 | CDH10 |
| 20 | 49,050,000 | 49,200,000 | 655 | 574 | -0.691922033 | CDH10 |
| 20 | 49,125,000 | 49,275,000 | 656 | 688 | 0.216353947 | |
| 20 | 49,200,000 | 49,350,000 | 657 | 984 | 0.708288277 | |
| 20 | 49,275,000 | 49,425,000 | 658 | 1088 | -1.074612978 | |
| 20 | 49,350,000 | 49,500,000 | 659 | 926 | -5.240137953 | |
| 20 | 49,425,000 | 49,575,000 | 660 | 745 | -5.806912243 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------|
| 20 | 49,500,000 | 49,650,000 | 661 | 837 | -1.225363419 | |
| 20 | 49,575,000 | 49,725,000 | 662 | 1414 | -0.042995467 | |
| 20 | 49,650,000 | 49,800,000 | 663 | 1321 | 0.275123368 | |
| 20 | 49,725,000 | 49,875,000 | 664 | 1229 | 0.995019858 | |
| 20 | 49,800,000 | 49,950,000 | 665 | 1181 | 0.894944695 | |
| 20 | 49,875,000 | 50,025,000 | 666 | 838 | 0.807556934 | |
| 20 | 49,950,000 | 50,100,000 | 667 | 598 | 0.751851996 | |
| 20 | 50,025,000 | 50,175,000 | 668 | 648 | -0.242734923 | |
| 20 | 50,100,000 | 50,250,000 | 669 | 873 | -1.803868466 | |
| 20 | 50,175,000 | 50,325,000 | 670 | 662 | -2.356082143 | |
| 20 | 50,250,000 | 50,400,000 | 671 | 702 | -0.068930696 | |
| 20 | 50,325,000 | 50,475,000 | 672 | 785 | -0.547767116 | |
| 20 | 50,400,000 | 50,550,000 | 673 | 783 | -1.088928815 | |
| 20 | 50,475,000 | 50,625,000 | 674 | 799 | -0.119966053 | |
| 20 | 50,550,000 | 50,700,000 | 675 | 457 | -0.200053539 | |
| 20 | 50,625,000 | 50,775,000 | 676 | 581 | -0.797141856 | |
| 20 | 50,700,000 | 50,850,000 | 677 | 751 | -0.813856329 | |
| 20 | 50,775,000 | 50,925,000 | 678 | 901 | -0.255069246 | |
| 20 | 50,850,000 | 51,000,000 | 679 | 839 | 0.207874343 | |
| 20 | 50,925,000 | 51,075,000 | 680 | 572 | 0.060005542 | |
| 20 | 51,000,000 | 51,150,000 | 681 | 798 | 0.726592434 | |
| 20 | 51,075,000 | 51,225,000 | 682 | 706 | 0.797056126 | |
| 20 | 51,150,000 | 51,300,000 | 683 | 326 | -0.283930163 | |
| 20 | 51,225,000 | 51,375,000 | 684 | 267 | -3.258245732 | |
| 20 | 51,300,000 | 51,450,000 | 685 | 414 | -2.64900277 | |
| 20 | 51,375,000 | 51,525,000 | 686 | 459 | -1.408470749 | CDH12 |
| 20 | 51,450,000 | 51,600,000 | 687 | 706 | -1.378489973 | CDH12 |
| 20 | 51,525,000 | 51,675,000 | 688 | 824 | -1.163136589 | CDH12 |
| 20 | 51,600,000 | 51,750,000 | 689 | 745 | 0.726700321 | CDH12 |
| 20 | 51,675,000 | 51,825,000 | 690 | 982 | 0.970406103 | |
| 20 | 51,750,000 | 51,900,000 | 691 | 931 | 0.430983942 | |
| 20 | 51,825,000 | 51,975,000 | 692 | 821 | -0.604300543 | |
| 20 | 51,900,000 | 52,050,000 | 693 | 894 | -0.012695173 | |
| 20 | 51,975,000 | 52,125,000 | 694 | 812 | 0.077596032 | |
| 20 | 52,050,000 | 52,200,000 | 695 | 741 | -0.174411093 | |
| 20 | 52,125,000 | 52,275,000 | 696 | 1086 | -0.037729278 | |
| 20 | 52,200,000 | 52,350,000 | 697 | 1053 | -0.379551073 | |
| 20 | 52,275,000 | 52,425,000 | 698 | 555 | -0.983492278 | |
| 20 | 52,350,000 | 52,500,000 | 699 | 498 | 0.647305207 | |
| 20 | 52,425,000 | 52,575,000 | 700 | 831 | 0.840775228 | |
| 20 | 52,500,000 | 52,650,000 | 701 | 1148 | 0.986240949 | |
| 20 | 52,575,000 | 52,725,000 | 702 | 991 | 1.009432227 | |
| 20 | 52,650,000 | 52,800,000 | 703 | 947 | 0.83425455 | |
| 20 | 52,725,000 | 52,875,000 | 704 | 988 | 0.834853747 | |
| 20 | 52,800,000 | 52,950,000 | 705 | 801 | 1.001703223 | |
| 20 | 52,875,000 | 53,025,000 | 706 | 726 | -0.035589139 | |
| 20 | 52,950,000 | 53,100,000 | 707 | 943 | -2.256220673 | |
| 20 | 53,025,000 | 53,175,000 | 708 | 882 | -3.856194671 | |
| 20 | 53,100,000 | 53,250,000 | 709 | 445 | -4.279896496 | |
| 20 | 53,175,000 | 53,325,000 | 710 | 437 | -2.402684955 | |
| 20 | 53,250,000 | 53,400,000 | 711 | 678 | -3.724345778 | |
| 20 | 53,325,000 | 53,475,000 | 712 | 1077 | -1.334157798 | CDH18 |
| 20 | 53,400,000 | 53,550,000 | 713 | 1202 | 0.165704638 | CDH18 |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|--------|
| 20 | 53,475,000 | 53,625,000 | 714 | 901 | 0.533721406 | CDH18 | |
| 20 | 53,550,000 | 53,700,000 | 715 | 970 | 0.595704068 | CDH18 | |
| 20 | 53,625,000 | 53,775,000 | 716 | 1093 | -0.46657461 | CDH18 | |
| 20 | 53,700,000 | 53,850,000 | 717 | 792 | -1.061544636 | CDH18 | |
| 20 | 53,775,000 | 53,925,000 | 718 | 555 | 0.81452091 | CDH18 | |
| 20 | 53,850,000 | 54,000,000 | 719 | 693 | 0.466345951 | CDH18 | |
| 20 | 53,925,000 | 54,075,000 | 720 | 927 | 0.085155243 | CDH18 | |
| 20 | 54,000,000 | 54,150,000 | 721 | 1038 | -0.231514742 | CDH18 | |
| 20 | 54,075,000 | 54,225,000 | 722 | 685 | -1.540301198 | | |
| 20 | 54,150,000 | 54,300,000 | 723 | 357 | -3.175216848 | | |
| 20 | 54,225,000 | 54,375,000 | 724 | 398 | -0.720223187 | | |
| 20 | 54,300,000 | 54,450,000 | 725 | 518 | 0.032899999 | | |
| 20 | 54,375,000 | 54,525,000 | 726 | 1262 | 0.198739501 | | |
| 20 | 54,450,000 | 54,600,000 | 727 | 1544 | 0.175665349 | | |
| 20 | 54,525,000 | 54,675,000 | 728 | 778 | 0.149112611 | | |
| 20 | 54,600,000 | 54,750,000 | 729 | 357 | 0.635684689 | | |
| 20 | 54,675,000 | 54,825,000 | 730 | 487 | 0.459731488 | | |
| 20 | 54,750,000 | 54,900,000 | 731 | 882 | -0.153753285 | | |
| 20 | 54,825,000 | 54,975,000 | 732 | 838 | -2.450998076 | | |
| 20 | 54,900,000 | 55,050,000 | 733 | 727 | -3.521710803 | | |
| 20 | 54,975,000 | 55,125,000 | 734 | 720 | -2.163850976 | | |
| 20 | 55,050,000 | 55,200,000 | 735 | 687 | -1.466056605 | | |
| 20 | 55,125,000 | 55,275,000 | 736 | 850 | 0.524099535 | | |
| 20 | 55,200,000 | 55,350,000 | 737 | 737 | 0.342911139 | | |
| 20 | 55,275,000 | 55,425,000 | 738 | 969 | -0.404558395 | | |
| 20 | 55,350,000 | 55,500,000 | 739 | 1338 | -1.059419997 | | |
| 20 | 55,425,000 | 55,575,000 | 740 | 1226 | -1.044635378 | | |
| 20 | 55,500,000 | 55,650,000 | 741 | 1085 | 0.466275608 | | |
| 20 | 55,575,000 | 55,725,000 | 742 | 1203 | 0.583058171 | ENSBTAG00000012971 | |
| 20 | 55,650,000 | 55,800,000 | 743 | 884 | 0.322613438 | ENSBTAG00000005491,ENSBTAG00000012971 | |
| 20 | 55,725,000 | 55,875,000 | 744 | 428 | 0.446547735 | ENSBTAG00000005491 | |
| 20 | 55,800,000 | 55,950,000 | 745 | 909 | 0.641525638 | | |
| 20 | 55,875,000 | 56,025,000 | 746 | 1142 | 0.812145464 | | |
| 20 | 55,950,000 | 56,100,000 | 747 | 763 | 0.048110182 | | |
| 20 | 56,025,000 | 56,175,000 | 748 | 624 | -1.792508338 | | |
| 20 | 56,100,000 | 56,250,000 | 749 | 397 | -0.674331085 | | |
| 20 | 56,175,000 | 56,325,000 | 750 | 486 | 0.367771753 | MYO10 | |
| 20 | 56,250,000 | 56,400,000 | 751 | 732 | 0.274956037 | MYO10 | |
| 20 | 56,325,000 | 56,475,000 | 752 | 739 | 0.407875186 | MYO10 | |
| 20 | 56,400,000 | 56,550,000 | 753 | 725 | 0.532777535 | MYO10 | |
| 20 | 56,475,000 | 56,625,000 | 754 | 771 | -1.276093002 | MYO10 | |
| 20 | 56,550,000 | 56,700,000 | 755 | 1105 | -0.388997718 | MYO10 | |
| 20 | 56,625,000 | 56,775,000 | 756 | 1123 | 0.263874093 | FAM134B,ZNF622 | |
| 20 | 56,700,000 | 56,850,000 | 757 | 784 | -1.133927315 | FAM134B,ZNF622 | |
| 20 | 56,775,000 | 56,925,000 | 758 | 703 | -2.021882194 | ZNF622 | |
| 20 | 56,850,000 | 57,000,000 | 759 | 894 | -0.865005314 | | |
| 20 | 56,925,000 | 57,075,000 | 760 | 867 | -0.357682052 | | 11-Mar |
| 20 | 57,000,000 | 57,150,000 | 761 | 697 | -0.485308895 | | 11-Mar |
| 20 | 57,075,000 | 57,225,000 | 762 | 491 | -0.514164212 | | 11-Mar |
| 20 | 57,150,000 | 57,300,000 | 763 | 333 | -0.302393369 | | |
| 20 | 57,225,000 | 57,375,000 | 764 | 310 | 0.133038575 | FBXL7 | |
| 20 | 57,300,000 | 57,450,000 | 765 | 471 | -1.827134446 | FBXL7 | |
| 20 | 57,375,000 | 57,525,000 | 766 | 783 | -2.715934877 | | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------|
| 20 | 57,450,000 | 57,600,000 | 767 | 897 | -1.92651063 | |
| 20 | 57,525,000 | 57,675,000 | 768 | 967 | -0.204086579 | |
| 20 | 57,600,000 | 57,750,000 | 769 | 1076 | -1.178341979 | |
| 20 | 57,675,000 | 57,825,000 | 770 | 1197 | -0.890991566 | |
| 20 | 57,750,000 | 57,900,000 | 771 | 1243 | 0.512445476 | |
| 20 | 57,825,000 | 57,975,000 | 772 | 824 | -0.525122931 | |
| 20 | 57,900,000 | 58,050,000 | 773 | 691 | 0.19737245 | |
| 20 | 57,975,000 | 58,125,000 | 774 | 1062 | 0.229984488 | |
| 20 | 58,050,000 | 58,200,000 | 775 | 1057 | -1.189658849 | |
| 20 | 58,125,000 | 58,275,000 | 776 | 680 | -0.731003688 | |
| 20 | 58,200,000 | 58,350,000 | 777 | 541 | -0.355466124 | |
| 20 | 58,275,000 | 58,425,000 | 778 | 780 | -0.181188803 | ANKH |
| 20 | 58,350,000 | 58,500,000 | 779 | 837 | 0.291937864 | ANKH |
| 20 | 58,425,000 | 58,575,000 | 780 | 879 | -0.833218375 | ANKH,OTULIN |
| 20 | 58,500,000 | 58,650,000 | 781 | 767 | -2.360987107 | ANKH,MGC143209,OTULIN |
| 20 | 58,575,000 | 58,725,000 | 782 | 706 | -0.988959051 | MGC143209,OTULIN,TRIO |
| 20 | 58,650,000 | 58,800,000 | 783 | 779 | 0.114896205 | MGC143209,TRIO |
| 20 | 58,725,000 | 58,875,000 | 784 | 861 | -0.083288795 | TRIO |
| 20 | 58,800,000 | 58,950,000 | 785 | 1076 | -1.675779164 | TRIO |
| 20 | 58,875,000 | 59,025,000 | 786 | 791 | -2.740572125 | TRIO |
| 20 | 58,950,000 | 59,100,000 | 787 | 396 | -1.09901237 | |
| 20 | 59,025,000 | 59,175,000 | 788 | 815 | -0.701148527 | |
| 20 | 59,100,000 | 59,250,000 | 789 | 1008 | -0.57578192 | |
| 20 | 59,175,000 | 59,325,000 | 790 | 626 | -1.118449123 | DNAH5 |
| 20 | 59,250,000 | 59,400,000 | 791 | 918 | -0.276317662 | DNAH5 |
| 20 | 59,325,000 | 59,475,000 | 792 | 1464 | -0.042828372 | DNAH5 |
| 20 | 59,400,000 | 59,550,000 | 793 | 1429 | -0.425616562 | DNAH5 |
| 20 | 59,475,000 | 59,625,000 | 794 | 920 | -0.183149178 | DNAH5 |
| 20 | 59,550,000 | 59,700,000 | 795 | 774 | -2.566423866 | DNAH5 |
| 20 | 59,625,000 | 59,775,000 | 796 | 742 | -3.640847102 | |
| 20 | 59,700,000 | 59,850,000 | 797 | 520 | -1.005022337 | |
| 20 | 59,775,000 | 59,925,000 | 798 | 688 | -1.696453325 | |
| 20 | 59,850,000 | 60,000,000 | 799 | 966 | -1.276832289 | |
| 20 | 59,925,000 | 60,075,000 | 800 | 1093 | -0.135935828 | |
| 20 | 60,000,000 | 60,150,000 | 801 | 1052 | 0.351713479 | |
| 20 | 60,075,000 | 60,225,000 | 802 | 1210 | 0.801996246 | |
| 20 | 60,150,000 | 60,300,000 | 803 | 1128 | 0.94028694 | |
| 20 | 60,225,000 | 60,375,000 | 804 | 971 | 0.545289385 | |
| 20 | 60,300,000 | 60,450,000 | 805 | 1240 | 0.205460102 | |
| 20 | 60,375,000 | 60,525,000 | 806 | 1389 | -0.05152368 | |
| 20 | 60,450,000 | 60,600,000 | 807 | 997 | 0.240592141 | |
| 20 | 60,525,000 | 60,675,000 | 808 | 831 | -0.579125638 | |
| 20 | 60,600,000 | 60,750,000 | 809 | 842 | -0.785032336 | |
| 20 | 60,675,000 | 60,825,000 | 810 | 771 | 0.029046697 | |
| 20 | 60,750,000 | 60,900,000 | 811 | 1276 | 0.254750906 | |
| 20 | 60,825,000 | 60,975,000 | 812 | 1511 | 0.280508821 | |
| 20 | 60,900,000 | 61,050,000 | 813 | 1283 | -0.379844931 | |
| 20 | 60,975,000 | 61,125,000 | 814 | 794 | -0.475043945 | |
| 20 | 61,050,000 | 61,200,000 | 815 | 516 | 0.54546008 | |
| 20 | 61,125,000 | 61,275,000 | 816 | 933 | 0.944625365 | |
| 20 | 61,200,000 | 61,350,000 | 817 | 994 | 0.969489184 | |
| 20 | 61,275,000 | 61,425,000 | 818 | 717 | 0.57693577 | |
| 20 | 61,350,000 | 61,500,000 | 819 | 679 | -0.36197331 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 61,425,000 | 61,575,000 | 820 | 713 | -1.17894075 | |
| 20 | 61,500,000 | 61,650,000 | 821 | 826 | -0.855520004 | |
| 20 | 61,575,000 | 61,725,000 | 822 | 942 | 0.15111697 | |
| 20 | 61,650,000 | 61,800,000 | 823 | 1050 | 0.65984794 | |
| 20 | 61,725,000 | 61,875,000 | 824 | 701 | 0.715206131 | |
| 20 | 61,800,000 | 61,950,000 | 825 | 647 | -0.452074718 | CTNND2 |
| 20 | 61,875,000 | 62,025,000 | 826 | 1012 | -1.465341134 | CTNND2 |
| 20 | 61,950,000 | 62,100,000 | 827 | 769 | -3.776837855 | CTNND2 |
| 20 | 62,025,000 | 62,175,000 | 828 | 826 | -3.46031687 | CTNND2 |
| 20 | 62,100,000 | 62,250,000 | 829 | 1121 | -3.314909309 | CTNND2 |
| 20 | 62,175,000 | 62,325,000 | 830 | 942 | -2.46199746 | CTNND2 |
| 20 | 62,250,000 | 62,400,000 | 831 | 868 | 0.338779504 | CTNND2 |
| 20 | 62,325,000 | 62,475,000 | 832 | 945 | -1.038776343 | CTNND2 |
| 20 | 62,400,000 | 62,550,000 | 833 | 698 | -1.670106033 | CTNND2 |
| 20 | 62,475,000 | 62,625,000 | 834 | 656 | 0.902468101 | |
| 20 | 62,550,000 | 62,700,000 | 835 | 1118 | 0.052553528 | DAP |
| 20 | 62,625,000 | 62,775,000 | 836 | 932 | -0.875440528 | ANKRD33B,DAP |
| 20 | 62,700,000 | 62,850,000 | 837 | 707 | -1.141751204 | ANKRD33B |
| 20 | 62,775,000 | 62,925,000 | 838 | 920 | -1.656012489 | ANKRD33B,ROPN1L |
| 20 | 62,850,000 | 63,000,000 | 839 | 579 | -2.856822097 | MARCH6,ROPN1L |
| 20 | 62,925,000 | 63,075,000 | 840 | 377 | -0.672102981 | CMBL,MARCH6,ROPN1L,ENSBTAG00000022809 |
| 20 | 63,000,000 | 63,150,000 | 841 | 523 | 0.400728721 | CCT5,CMBL,FAM173B,ENSBTAG00000022809 |
| 20 | 63,075,000 | 63,225,000 | 842 | 718 | 0.378716431 | CCT5,CMBL,FAM173B |
| 20 | 63,150,000 | 63,300,000 | 843 | 714 | -0.311634155 | |
| 20 | 63,225,000 | 63,375,000 | 844 | 641 | -0.114877746 | |
| 20 | 63,300,000 | 63,450,000 | 845 | 739 | -1.711651192 | |
| 20 | 63,375,000 | 63,525,000 | 846 | 815 | -4.702740779 | |
| 20 | 63,450,000 | 63,600,000 | 847 | 679 | -4.889029348 | |
| 20 | 63,525,000 | 63,675,000 | 848 | 442 | -3.808355931 | |
| 20 | 63,600,000 | 63,750,000 | 849 | 373 | -2.034497927 | TAS2R1 |
| 20 | 63,675,000 | 63,825,000 | 850 | 361 | -0.316375113 | TAS2R1 |
| 20 | 63,750,000 | 63,900,000 | 851 | 384 | -0.485093917 | |
| 20 | 63,825,000 | 63,975,000 | 852 | 685 | -0.674795641 | |
| 20 | 63,900,000 | 64,050,000 | 853 | 1152 | -0.161095242 | |
| 20 | 63,975,000 | 64,125,000 | 854 | 1199 | -0.351500351 | |
| 20 | 64,050,000 | 64,200,000 | 855 | 1024 | -0.360005376 | SEMA5A |
| 20 | 64,125,000 | 64,275,000 | 856 | 861 | -1.81874006 | SEMA5A |
| 20 | 64,200,000 | 64,350,000 | 857 | 909 | -2.954886436 | SEMA5A |
| 20 | 64,275,000 | 64,425,000 | 858 | 1487 | 0.364868626 | SEMA5A |
| 20 | 64,350,000 | 64,500,000 | 859 | 1805 | 1.001869805 | SEMA5A |
| 20 | 64,425,000 | 64,575,000 | 860 | 1487 | 0.917128216 | |
| 20 | 64,500,000 | 64,650,000 | 861 | 1397 | -0.066106194 | |
| 20 | 64,575,000 | 64,725,000 | 862 | 1357 | -0.012893433 | |
| 20 | 64,650,000 | 64,800,000 | 863 | 1208 | -0.002493529 | |
| 20 | 64,725,000 | 64,875,000 | 864 | 798 | -0.267065242 | |
| 20 | 64,800,000 | 64,950,000 | 865 | 411 | -0.447708232 | |
| 20 | 64,875,000 | 65,025,000 | 866 | 690 | 0.298999945 | |
| 20 | 64,950,000 | 65,100,000 | 867 | 914 | -0.154381302 | |
| 20 | 65,025,000 | 65,175,000 | 868 | 972 | 0.331863436 | |
| 20 | 65,100,000 | 65,250,000 | 869 | 1162 | 0.50078431 | |
| 20 | 65,175,000 | 65,325,000 | 870 | 1401 | -0.020069147 | |
| 20 | 65,250,000 | 65,400,000 | 871 | 1486 | -0.317431057 | |
| 20 | 65,325,000 | 65,475,000 | 872 | 1346 | 0.107467585 | FASTKD3,MTRR |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 20 | 65,400,000 | 65,550,000 | 873 | 1092 | 0.963593433 | ADCY2,FASTKD3,MTRR |
| 20 | 65,475,000 | 65,625,000 | 874 | 1034 | 0.290434711 | ADCY2 |
| 20 | 65,550,000 | 65,700,000 | 875 | 1439 | 0.24923599 | ADCY2 |
| 20 | 65,625,000 | 65,775,000 | 876 | 1643 | 0.147820329 | ADCY2 |
| 20 | 65,700,000 | 65,850,000 | 877 | 1456 | -1.063719106 | |
| 20 | 65,775,000 | 65,925,000 | 878 | 1414 | -1.011876527 | |
| 20 | 65,850,000 | 66,000,000 | 879 | 1220 | -0.002174391 | |
| 20 | 65,925,000 | 66,075,000 | 880 | 1010 | -0.12437715 | |
| 20 | 66,000,000 | 66,150,000 | 881 | 1324 | -0.093874074 | |
| 20 | 66,075,000 | 66,225,000 | 882 | 1508 | -1.424781344 | |
| 20 | 66,150,000 | 66,300,000 | 883 | 963 | -2.568654034 | |
| 20 | 66,225,000 | 66,375,000 | 884 | 859 | -2.328799207 | ENSBTAG00000032442 |
| 20 | 66,300,000 | 66,450,000 | 885 | 1339 | -1.814822844 | ENSBTAG00000032442 |
| 20 | 66,375,000 | 66,525,000 | 886 | 1422 | -0.011097922 | |
| 20 | 66,450,000 | 66,600,000 | 887 | 1000 | 0.150046667 | PAPD7 |
| 20 | 66,525,000 | 66,675,000 | 888 | 495 | -1.436264406 | PAPD7 |
| 20 | 66,600,000 | 66,750,000 | 889 | 388 | -0.484391414 | NSUN2,PAPD7,SRD5A1 |
| 20 | 66,675,000 | 66,825,000 | 890 | 518 | 0.55838501 | NSUN2,SRD5A1 |
| 20 | 66,750,000 | 66,900,000 | 891 | 530 | 0.547448001 | NSUN2 |
| 20 | 66,825,000 | 66,975,000 | 892 | 418 | 0.062726384 | MED10 |
| 20 | 66,900,000 | 67,050,000 | 893 | 749 | 0.254363936 | MED10 |
| 20 | 66,975,000 | 67,125,000 | 894 | 1226 | -1.326721539 | |
| 20 | 67,050,000 | 67,200,000 | 895 | 1924 | -0.804018562 | |
| 20 | 67,125,000 | 67,275,000 | 896 | 2310 | -0.483139385 | |
| 20 | 67,200,000 | 67,350,000 | 897 | 2091 | -2.092088264 | |
| 20 | 67,275,000 | 67,425,000 | 898 | 1860 | -1.494467393 | |
| 20 | 67,350,000 | 67,500,000 | 899 | 1418 | -0.743295918 | |
| 20 | 67,425,000 | 67,575,000 | 900 | 921 | -1.24337768 | |
| 20 | 67,500,000 | 67,650,000 | 901 | 904 | 0.648455444 | |
| 20 | 67,575,000 | 67,725,000 | 902 | 1394 | 0.956821752 | |
| 20 | 67,650,000 | 67,800,000 | 903 | 1542 | 0.686218236 | ICE1 |
| 20 | 67,725,000 | 67,875,000 | 904 | 1178 | 0.171526873 | ICE1 |
| 20 | 67,800,000 | 67,950,000 | 905 | 759 | -0.529644106 | ADAMTS16,ICE1 |
| 20 | 67,875,000 | 68,025,000 | 906 | 504 | -0.335073208 | ADAMTS16 |
| 20 | 67,950,000 | 68,100,000 | 907 | 369 | 0.29139901 | ADAMTS16 |
| 20 | 68,025,000 | 68,175,000 | 908 | 427 | 0.767076674 | ADAMTS16 |
| 20 | 68,100,000 | 68,250,000 | 909 | 602 | 0.887714241 | |
| 20 | 68,175,000 | 68,325,000 | 910 | 510 | 0.851026498 | |
| 20 | 68,250,000 | 68,400,000 | 911 | 422 | -0.082684538 | |
| 20 | 68,325,000 | 68,475,000 | 912 | 749 | -0.333281462 | |
| 20 | 68,400,000 | 68,550,000 | 913 | 842 | 0.338501081 | |
| 20 | 68,475,000 | 68,625,000 | 914 | 731 | 0.674819293 | |
| 20 | 68,550,000 | 68,700,000 | 915 | 737 | 0.556472971 | |
| 20 | 68,625,000 | 68,775,000 | 916 | 811 | 0.290591127 | |
| 20 | 68,700,000 | 68,850,000 | 917 | 846 | 0.164630061 | |
| 20 | 68,775,000 | 68,925,000 | 918 | 753 | 0.273378336 | |
| 20 | 68,850,000 | 69,000,000 | 919 | 690 | -0.111698893 | |
| 20 | 68,925,000 | 69,075,000 | 920 | 770 | -1.226402023 | |
| 20 | 69,000,000 | 69,150,000 | 921 | 1252 | -0.490187856 | |
| 20 | 69,075,000 | 69,225,000 | 922 | 1259 | -0.165699116 | |
| 20 | 69,150,000 | 69,300,000 | 923 | 806 | -0.80501162 | |
| 20 | 69,225,000 | 69,375,000 | 924 | 517 | -1.5614041 | |
| 20 | 69,300,000 | 69,450,000 | 925 | 459 | -1.557474722 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 20 | 69,375,000 | 69,525,000 | 926 | 594 | -0.739146861 | IRX1 |
| 20 | 69,450,000 | 69,600,000 | 927 | 708 | 0.019293012 | IRX1 |
| 20 | 69,525,000 | 69,675,000 | 928 | 732 | -0.391057182 | |
| 20 | 69,600,000 | 69,750,000 | 929 | 602 | -1.272526488 | |
| 20 | 69,675,000 | 69,825,000 | 930 | 615 | -1.058269215 | |
| 20 | 69,750,000 | 69,900,000 | 931 | 578 | -1.646744632 | |
| 20 | 69,825,000 | 69,975,000 | 932 | 693 | -1.174767897 | |
| 20 | 69,900,000 | 70,050,000 | 933 | 1287 | -0.657886345 | |
| 20 | 69,975,000 | 70,125,000 | 934 | 1010 | -0.694005185 | |
| 20 | 70,050,000 | 70,200,000 | 935 | 272 | -0.350424431 | IRX2 |
| 20 | 70,125,000 | 70,275,000 | 936 | 631 | -1.694019033 | IRX2 |
| 20 | 70,200,000 | 70,350,000 | 937 | 1053 | -1.170617869 | |
| 20 | 70,275,000 | 70,425,000 | 938 | 1034 | -0.867984032 | |
| 20 | 70,350,000 | 70,500,000 | 939 | 1020 | -1.753336262 | |
| 20 | 70,425,000 | 70,575,000 | 940 | 1113 | -1.206317661 | |
| 20 | 70,500,000 | 70,650,000 | 941 | 1032 | -0.415179816 | |
| 20 | 70,575,000 | 70,725,000 | 942 | 1009 | 0.357999441 | |
| 20 | 70,650,000 | 70,800,000 | 943 | 979 | 0.59753281 | |
| 20 | 70,725,000 | 70,875,000 | 944 | 581 | 0.746535558 | |
| 20 | 70,800,000 | 70,950,000 | 945 | 380 | 0.641499188 | IRX4 |
| 20 | 70,875,000 | 71,025,000 | 946 | 422 | 0.491629971 | IRX4,MRPL36,NDUFS6 |
| 20 | 70,950,000 | 71,100,000 | 947 | 788 | 0.295186277 | MRPL36,NDUFS6 |
| 20 | 71,025,000 | 71,175,000 | 948 | 1154 | 0.586000577 | LPCAT1 |
| 20 | 71,100,000 | 71,250,000 | 949 | 1083 | 0.263165998 | CLPTM1L,LPCAT1,SLC6A3 |
| 20 | 71,175,000 | 71,325,000 | 950 | 824 | -1.125166077 | CLPTM1L,SLC6A18,SLC6A19,SLC6A3,TERT |
| 20 | 71,250,000 | 71,400,000 | 951 | 690 | -1.068128673 | SLC12A7,SLC6A18,SLC6A19,TERT |
| 20 | 71,325,000 | 71,475,000 | 952 | 750 | -0.80268638 | NKD2,SLC12A7,ENSBTAG00000046181 |
| 20 | 71,400,000 | 71,550,000 | 953 | 724 | -0.249529985 | BRD9,NKD2,SLC12A7,TRIP13,ENSBTAG00000034431,ENSBTAG00000046181 |
| 20 | 71,475,000 | 71,625,000 | 954 | 591 | 0.48213822 | BRD9,CEP72,TPPP,TRIP13,ENSBTAG00000034431 |
| 20 | 71,550,000 | 71,700,000 | 955 | 609 | 0.648145783 | CEP72,TPPP |
| 20 | 71,625,000 | 71,775,000 | 956 | 498 | 0.688967788 | CEP72,EXOC3,SLC9A3,ENSBTAG00000039409 |
| 20 | 71,700,000 | 71,850,000 | 957 | 267 | 0.53765484 | AHRR,EXOC3,SLC9A3,ENSBTAG00000039409 |
| 20 | 71,775,000 | 71,925,000 | 958 | 394 | 0.329617714 | AHRR,EXOC3,PDCD6,ENSBTAG00000048135 |
| 20 | 71,850,000 | 72,000,000 | 959 | 366 | 0.343171198 | AHRR,CCDC127,LRRC14B,PDCD6,SDHA,ENSBTAG00000048135 |
| 20 | 71,925,000 | 72,042,655 | 960 | 122 | 0.504276736 | CCDC127,LRRC14B,PDCD6,SDHA,ENSBTAG00000034577 |
| 21 | 0 | 150,000 | 1 | 913 | -0.087342105 | SNRPN |
| 21 | 75,000 | 225,000 | 2 | 1081 | 0.007528233 | |
| 21 | 150,000 | 300,000 | 3 | 708 | 0.316138567 | |
| 21 | 225,000 | 375,000 | 4 | 537 | 0.551290688 | |
| 21 | 300,000 | 450,000 | 5 | 403 | 0.311540631 | |
| 21 | 375,000 | 525,000 | 6 | 439 | -0.281905034 | |
| 21 | 450,000 | 600,000 | 7 | 437 | -1.319690569 | |
| 21 | 525,000 | 675,000 | 8 | 336 | -2.144921819 | |
| 21 | 600,000 | 750,000 | 9 | 294 | -3.1987255 | NDN |
| 21 | 675,000 | 825,000 | 10 | 365 | -2.603809291 | MAGEL2,NDN |
| 21 | 750,000 | 900,000 | 11 | 323 | -2.712535425 | MAGEL2 |
| 21 | 825,000 | 975,000 | 12 | 218 | -4.281336588 | |
| 21 | 900,000 | 1,050,000 | 13 | 251 | -4.289941984 | |
| 21 | 975,000 | 1,125,000 | 14 | 372 | -3.344579765 | |
| 21 | 1,050,000 | 1,200,000 | 15 | 413 | -2.31026388 | |
| 21 | 1,125,000 | 1,275,000 | 16 | 455 | -2.743284295 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------------------|
| 21 | 1,200,000 | 1,350,000 | 17 | 705 | -2.672308179 | |
| 21 | 1,275,000 | 1,425,000 | 18 | 623 | -1.568265229 | |
| 21 | 1,350,000 | 1,500,000 | 19 | 386 | -0.66363635 | FZD3 |
| 21 | 1,425,000 | 1,575,000 | 20 | 397 | -1.008391741 | FZD3 |
| 21 | 1,500,000 | 1,650,000 | 21 | 722 | -2.865950402 | FZD3,ENSBTAG00000023079 |
| 21 | 1,575,000 | 1,725,000 | 22 | 978 | -4.06654314 | ENSBTAG00000023079 |
| 21 | 1,650,000 | 1,800,000 | 23 | 1001 | -4.257626264 | ENSBTAG00000006648 |
| 21 | 1,725,000 | 1,875,000 | 24 | 875 | -3.116392378 | ENSBTAG00000006648,ENSBTAG00000013567 |
| 21 | 1,800,000 | 1,950,000 | 25 | 484 | -0.81409295 | ENSBTAG00000013567,ENSBTAG00000035333 |
| 21 | 1,875,000 | 2,025,000 | 26 | 309 | 0.53537482 | ENSBTAG00000035333 |
| 21 | 1,950,000 | 2,100,000 | 27 | 220 | 0.764546722 | |
| 21 | 2,025,000 | 2,175,000 | 28 | 143 | 0.653985752 | |
| 21 | 2,100,000 | 2,250,000 | 29 | 198 | 0.156636368 | |
| 21 | 2,175,000 | 2,325,000 | 30 | 201 | -1.284420144 | |
| 21 | 2,250,000 | 2,400,000 | 31 | 191 | -2.63913365 | UBE3A |
| 21 | 2,325,000 | 2,475,000 | 32 | 261 | -1.870373855 | UBE3A |
| 21 | 2,400,000 | 2,550,000 | 33 | 282 | -1.087862717 | UBE3A |
| 21 | 2,475,000 | 2,625,000 | 34 | 296 | 0.448914766 | |
| 21 | 2,550,000 | 2,700,000 | 35 | 662 | 0.818482263 | |
| 21 | 2,625,000 | 2,775,000 | 36 | 1047 | 0.378040516 | |
| 21 | 2,700,000 | 2,850,000 | 37 | 1349 | 0.042659132 | ATP10A |
| 21 | 2,775,000 | 2,925,000 | 38 | 1532 | 0.527408808 | ATP10A |
| 21 | 2,850,000 | 3,000,000 | 39 | 1098 | 0.595528595 | ATP10A |
| 21 | 2,925,000 | 3,075,000 | 40 | 520 | -0.284465528 | ATP10A |
| 21 | 3,000,000 | 3,150,000 | 41 | 626 | 0.629410775 | |
| 21 | 3,075,000 | 3,225,000 | 42 | 1317 | 1.200414497 | |
| 21 | 3,150,000 | 3,300,000 | 43 | 1302 | 1.373132834 | |
| 21 | 3,225,000 | 3,375,000 | 44 | 1231 | 0.956474679 | |
| 21 | 3,300,000 | 3,450,000 | 45 | 1240 | 1.052180371 | |
| 21 | 3,375,000 | 3,525,000 | 46 | 845 | -0.43316639 | |
| 21 | 3,450,000 | 3,600,000 | 47 | 988 | -0.605828355 | |
| 21 | 3,525,000 | 3,675,000 | 48 | 773 | 1.161524854 | |
| 21 | 3,600,000 | 3,750,000 | 49 | 471 | 1.006299053 | |
| 21 | 3,675,000 | 3,825,000 | 50 | 457 | 0.6142231 | |
| 21 | 3,750,000 | 3,900,000 | 51 | 253 | -2.509260999 | |
| 21 | 3,825,000 | 3,975,000 | 52 | 189 | -4.199488576 | |
| 21 | 3,900,000 | 4,050,000 | 53 | 210 | -3.217709853 | GABRB3 |
| 21 | 3,975,000 | 4,125,000 | 54 | 288 | -3.789786258 | GABRB3 |
| 21 | 4,050,000 | 4,200,000 | 55 | 537 | -1.879236811 | GABRB3 |
| 21 | 4,125,000 | 4,275,000 | 56 | 879 | -0.096704116 | |
| 21 | 4,200,000 | 4,350,000 | 57 | 879 | 0.366364389 | |
| 21 | 4,275,000 | 4,425,000 | 58 | 616 | 0.322013144 | GABRA5 |
| 21 | 4,350,000 | 4,500,000 | 59 | 445 | -0.130727327 | GABRA5 |
| 21 | 4,425,000 | 4,575,000 | 60 | 413 | -0.133757628 | GABRA5 |
| 21 | 4,500,000 | 4,650,000 | 61 | 373 | 0.636434013 | |
| 21 | 4,575,000 | 4,725,000 | 62 | 376 | 1.162849478 | |
| 21 | 4,650,000 | 4,800,000 | 63 | 811 | 0.988153903 | |
| 21 | 4,725,000 | 4,875,000 | 64 | 932 | 0.870496932 | |
| 21 | 4,800,000 | 4,950,000 | 65 | 606 | 1.090414794 | |
| 21 | 4,875,000 | 5,025,000 | 66 | 493 | 1.117653754 | ENSBTAG00000035184 |
| 21 | 4,950,000 | 5,100,000 | 67 | 841 | 0.700021852 | ENSBTAG00000035184 |
| 21 | 5,025,000 | 5,175,000 | 68 | 824 | 0.671285147 | |
| 21 | 5,100,000 | 5,250,000 | 69 | 621 | 0.688109961 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--------------------------|
| 21 | 5,175,000 | 5,325,000 | 70 | 833 | 0.785771067 | |
| 21 | 5,250,000 | 5,400,000 | 71 | 1034 | 0.760229929 | VIMP |
| 21 | 5,325,000 | 5,475,000 | 72 | 1096 | 0.312813729 | CHSY,VIMP |
| 21 | 5,400,000 | 5,550,000 | 73 | 1164 | 0.204602989 | CHSY |
| 21 | 5,475,000 | 5,625,000 | 74 | 1367 | 0.166725856 | CHSY |
| 21 | 5,550,000 | 5,700,000 | 75 | 1191 | -0.926904052 | LRRK1 |
| 21 | 5,625,000 | 5,775,000 | 76 | 1276 | -1.245871593 | LRRK1 |
| 21 | 5,700,000 | 5,850,000 | 77 | 1188 | -0.389712182 | ALDH1A3,LRRK1 |
| 21 | 5,775,000 | 5,925,000 | 78 | 971 | -0.015340174 | ALDH1A3 |
| 21 | 5,850,000 | 6,000,000 | 79 | 1306 | -1.549575636 | |
| 21 | 5,925,000 | 6,075,000 | 80 | 1655 | -0.419622457 | |
| 21 | 6,000,000 | 6,150,000 | 81 | 1447 | 0.639759685 | ENSBTAG00000048048 |
| 21 | 6,075,000 | 6,225,000 | 82 | 897 | 0.415283762 | ASB7,ENSBTAG00000048048 |
| 21 | 6,150,000 | 6,300,000 | 83 | 628 | -0.772539761 | ASB7,LASS3,LINS |
| 21 | 6,225,000 | 6,375,000 | 84 | 500 | -0.316318414 | LASS3,LINS |
| 21 | 6,300,000 | 6,450,000 | 85 | 533 | 1.095463471 | LASS3 |
| 21 | 6,375,000 | 6,525,000 | 86 | 557 | 0.779402112 | ADAMTS17,LASS3 |
| 21 | 6,450,000 | 6,600,000 | 87 | 683 | 0.192122692 | ADAMTS17 |
| 21 | 6,525,000 | 6,675,000 | 88 | 1105 | -0.726318979 | ADAMTS17 |
| 21 | 6,600,000 | 6,750,000 | 89 | 1091 | -0.677908089 | ADAMTS17 |
| 21 | 6,675,000 | 6,825,000 | 90 | 738 | 0.885042532 | ADAMTS17 |
| 21 | 6,750,000 | 6,900,000 | 91 | 556 | 0.999142158 | ADAMTS17 |
| 21 | 6,825,000 | 6,975,000 | 92 | 524 | -0.191965507 | ADAMTS17 |
| 21 | 6,900,000 | 7,050,000 | 93 | 805 | -0.534212755 | ADAMTS17,MEF2A,MGC155141 |
| 21 | 6,975,000 | 7,125,000 | 94 | 832 | -0.793481829 | MEF2A,MGC155141 |
| 21 | 7,050,000 | 7,200,000 | 95 | 661 | -0.593158613 | MEF2A |
| 21 | 7,125,000 | 7,275,000 | 96 | 857 | 0.94735179 | MEF2A |
| 21 | 7,200,000 | 7,350,000 | 97 | 1060 | 1.08397234 | MEF2A |
| 21 | 7,275,000 | 7,425,000 | 98 | 746 | 0.950556158 | LRRC28 |
| 21 | 7,350,000 | 7,500,000 | 99 | 313 | 1.150688301 | LRRC28 |
| 21 | 7,425,000 | 7,575,000 | 100 | 265 | 1.316912341 | LRRC28 |
| 21 | 7,500,000 | 7,650,000 | 101 | 228 | 1.369932819 | LRRC28,TTC23 |
| 21 | 7,575,000 | 7,725,000 | 102 | 201 | 1.221269665 | LRRC28,TTC23 |
| 21 | 7,650,000 | 7,800,000 | 103 | 217 | 1.183580762 | SYNM,TTC23 |
| 21 | 7,725,000 | 7,875,000 | 104 | 250 | 1.292677377 | SYNM,TTC23 |
| 21 | 7,800,000 | 7,950,000 | 105 | 269 | 1.241874606 | |
| 21 | 7,875,000 | 8,025,000 | 106 | 321 | 0.70141774 | |
| 21 | 7,950,000 | 8,100,000 | 107 | 573 | 0.172402221 | |
| 21 | 8,025,000 | 8,175,000 | 108 | 480 | -0.131881576 | |
| 21 | 8,100,000 | 8,250,000 | 109 | 284 | -0.335460575 | IGF1R |
| 21 | 8,175,000 | 8,325,000 | 110 | 391 | 0.229130671 | IGF1R,PGPEP1L |
| 21 | 8,250,000 | 8,400,000 | 111 | 501 | 0.480255684 | FAM169B,IGF1R,PGPEP1L |
| 21 | 8,325,000 | 8,475,000 | 112 | 542 | 0.1300211 | FAM169B |
| 21 | 8,400,000 | 8,550,000 | 113 | 626 | -0.85685646 | FAM169B |
| 21 | 8,475,000 | 8,625,000 | 114 | 770 | -0.220772474 | |
| 21 | 8,550,000 | 8,700,000 | 115 | 1045 | 0.712833406 | |
| 21 | 8,625,000 | 8,775,000 | 116 | 1292 | 0.793093384 | |
| 21 | 8,700,000 | 8,850,000 | 117 | 1141 | 0.310059538 | |
| 21 | 8,775,000 | 8,925,000 | 118 | 975 | 0.115467014 | ARRDC4 |
| 21 | 8,850,000 | 9,000,000 | 119 | 878 | -0.237637006 | ARRDC4 |
| 21 | 8,925,000 | 9,075,000 | 120 | 1050 | -1.311467257 | ARRDC4 |
| 21 | 9,000,000 | 9,150,000 | 121 | 1382 | -0.813666332 | |
| 21 | 9,075,000 | 9,225,000 | 122 | 1451 | 0.164028273 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 21 | 9,150,000 | 9,300,000 | 123 | 1363 | 0.571671927 | |
| 21 | 9,225,000 | 9,375,000 | 124 | 1405 | 0.637926595 | |
| 21 | 9,300,000 | 9,450,000 | 125 | 1618 | 1.019499402 | |
| 21 | 9,375,000 | 9,525,000 | 126 | 1291 | 1.147654949 | |
| 21 | 9,450,000 | 9,600,000 | 127 | 862 | 1.084005098 | |
| 21 | 9,525,000 | 9,675,000 | 128 | 1207 | 0.315928111 | ENSBTAG00000046611 |
| 21 | 9,600,000 | 9,750,000 | 129 | 988 | -0.028502504 | ENSBTAG00000046611 |
| 21 | 9,675,000 | 9,825,000 | 130 | 602 | -1.392156258 | |
| 21 | 9,750,000 | 9,900,000 | 131 | 898 | -0.465799778 | |
| 21 | 9,825,000 | 9,975,000 | 132 | 755 | 0.596566162 | |
| 21 | 9,900,000 | 10,050,000 | 133 | 536 | 0.369207742 | |
| 21 | 9,975,000 | 10,125,000 | 134 | 628 | 0.790893586 | |
| 21 | 10,050,000 | 10,200,000 | 135 | 535 | 0.312231009 | |
| 21 | 10,125,000 | 10,275,000 | 136 | 423 | -0.4855126 | |
| 21 | 10,200,000 | 10,350,000 | 137 | 484 | 0.435185821 | |
| 21 | 10,275,000 | 10,425,000 | 138 | 719 | 0.380032556 | |
| 21 | 10,350,000 | 10,500,000 | 139 | 1068 | 0.442856718 | |
| 21 | 10,425,000 | 10,575,000 | 140 | 831 | 0.21214676 | |
| 21 | 10,500,000 | 10,650,000 | 141 | 639 | -0.79602851 | |
| 21 | 10,575,000 | 10,725,000 | 142 | 732 | -1.509082516 | |
| 21 | 10,650,000 | 10,800,000 | 143 | 466 | -1.444052651 | NR2F2 |
| 21 | 10,725,000 | 10,875,000 | 144 | 348 | 0.830581442 | NR2F2 |
| 21 | 10,800,000 | 10,950,000 | 145 | 451 | 0.585799948 | NR2F2 |
| 21 | 10,875,000 | 11,025,000 | 146 | 688 | 0.639829493 | |
| 21 | 10,950,000 | 11,100,000 | 147 | 830 | 0.620052205 | |
| 21 | 11,025,000 | 11,175,000 | 148 | 900 | -0.849588386 | |
| 21 | 11,100,000 | 11,250,000 | 149 | 1023 | -0.464392964 | |
| 21 | 11,175,000 | 11,325,000 | 150 | 743 | 0.106177025 | |
| 21 | 11,250,000 | 11,400,000 | 151 | 738 | -0.445501617 | |
| 21 | 11,325,000 | 11,475,000 | 152 | 1022 | -0.407444605 | |
| 21 | 11,400,000 | 11,550,000 | 153 | 957 | -0.843610816 | |
| 21 | 11,475,000 | 11,625,000 | 154 | 774 | -1.359113053 | |
| 21 | 11,550,000 | 11,700,000 | 155 | 796 | -0.238978738 | |
| 21 | 11,625,000 | 11,775,000 | 156 | 985 | -0.42534361 | |
| 21 | 11,700,000 | 11,850,000 | 157 | 870 | -1.394580417 | |
| 21 | 11,775,000 | 11,925,000 | 158 | 840 | -1.462679443 | |
| 21 | 11,850,000 | 12,000,000 | 159 | 979 | -0.726403141 | |
| 21 | 11,925,000 | 12,075,000 | 160 | 1021 | 0.223957608 | |
| 21 | 12,000,000 | 12,150,000 | 161 | 968 | 0.582524508 | |
| 21 | 12,075,000 | 12,225,000 | 162 | 693 | -0.179180504 | |
| 21 | 12,150,000 | 12,300,000 | 163 | 815 | -0.561430347 | |
| 21 | 12,225,000 | 12,375,000 | 164 | 1052 | 0.085211244 | |
| 21 | 12,300,000 | 12,450,000 | 165 | 899 | 0.828607337 | |
| 21 | 12,375,000 | 12,525,000 | 166 | 854 | 0.592788925 | |
| 21 | 12,450,000 | 12,600,000 | 167 | 971 | 0.553794668 | |
| 21 | 12,525,000 | 12,675,000 | 168 | 935 | 0.654082266 | |
| 21 | 12,600,000 | 12,750,000 | 169 | 830 | 0.669109052 | |
| 21 | 12,675,000 | 12,825,000 | 170 | 899 | 0.692688156 | |
| 21 | 12,750,000 | 12,900,000 | 171 | 727 | 0.536604487 | MCTP2 |
| 21 | 12,825,000 | 12,975,000 | 172 | 654 | 0.819736648 | MCTP2 |
| 21 | 12,900,000 | 13,050,000 | 173 | 1170 | 0.854949853 | MCTP2 |
| 21 | 12,975,000 | 13,125,000 | 174 | 1443 | 0.597053475 | MCTP2 |
| 21 | 13,050,000 | 13,200,000 | 175 | 1498 | -0.188049839 | MCTP2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 21 | 13,125,000 | 13,275,000 | 176 | 1251 | 0.021973981 | |
| 21 | 13,200,000 | 13,350,000 | 177 | 660 | 0.701733607 | |
| 21 | 13,275,000 | 13,425,000 | 178 | 795 | -0.144077589 | ENSBTAG00000033335 |
| 21 | 13,350,000 | 13,500,000 | 179 | 1060 | 0.50333831 | ENSBTAG00000033335 |
| 21 | 13,425,000 | 13,575,000 | 180 | 942 | 0.259388758 | |
| 21 | 13,500,000 | 13,650,000 | 181 | 819 | -0.355005975 | |
| 21 | 13,575,000 | 13,725,000 | 182 | 913 | 0.151360898 | |
| 21 | 13,650,000 | 13,800,000 | 183 | 1164 | -0.93615433 | |
| 21 | 13,725,000 | 13,875,000 | 184 | 1144 | -0.775185321 | |
| 21 | 13,800,000 | 13,950,000 | 185 | 1027 | 0.287410154 | |
| 21 | 13,875,000 | 14,025,000 | 186 | 775 | -0.127403795 | |
| 21 | 13,950,000 | 14,100,000 | 187 | 625 | -0.403055476 | |
| 21 | 14,025,000 | 14,175,000 | 188 | 615 | 0.302876066 | |
| 21 | 14,100,000 | 14,250,000 | 189 | 815 | 0.375707375 | |
| 21 | 14,175,000 | 14,325,000 | 190 | 964 | 0.380429135 | ENSBTAG00000027075 |
| 21 | 14,250,000 | 14,400,000 | 191 | 623 | 0.431821916 | CHD2,RGMA,ENSBTAG00000027075 |
| 21 | 14,325,000 | 14,475,000 | 192 | 327 | 0.543420041 | CHD2,RGMA |
| 21 | 14,400,000 | 14,550,000 | 193 | 238 | -0.038100146 | CHD2 |
| 21 | 14,475,000 | 14,625,000 | 194 | 541 | 0.935967851 | CHD2 |
| 21 | 14,550,000 | 14,700,000 | 195 | 1210 | 0.103588677 | FAM174B |
| 21 | 14,625,000 | 14,775,000 | 196 | 1007 | -0.42543813 | FAM174B |
| 21 | 14,700,000 | 14,850,000 | 197 | 431 | -0.089602024 | FAM174B |
| 21 | 14,775,000 | 14,925,000 | 198 | 885 | 0.784708894 | ST8SIA2 |
| 21 | 14,850,000 | 15,000,000 | 199 | 1161 | 0.652654677 | ST8SIA2 |
| 21 | 14,925,000 | 15,075,000 | 200 | 1280 | -0.649173701 | ST8SIA2 |
| 21 | 15,000,000 | 15,150,000 | 201 | 1420 | -0.308071045 | |
| 21 | 15,075,000 | 15,225,000 | 202 | 1241 | 0.223123791 | SLCO3A1 |
| 21 | 15,150,000 | 15,300,000 | 203 | 918 | 0.064085786 | SLCO3A1 |
| 21 | 15,225,000 | 15,375,000 | 204 | 956 | 0.709337057 | SLCO3A1 |
| 21 | 15,300,000 | 15,450,000 | 205 | 1460 | 0.501046654 | SLCO3A1 |
| 21 | 15,375,000 | 15,525,000 | 206 | 1282 | -0.18293879 | SLCO3A1 |
| 21 | 15,450,000 | 15,600,000 | 207 | 934 | -0.678395903 | SLCO3A1 |
| 21 | 15,525,000 | 15,675,000 | 208 | 1072 | 0.398315405 | SLCO3A1 |
| 21 | 15,600,000 | 15,750,000 | 209 | 960 | 0.765709347 | |
| 21 | 15,675,000 | 15,825,000 | 210 | 623 | 0.382209262 | |
| 21 | 15,750,000 | 15,900,000 | 211 | 597 | 0.817723483 | |
| 21 | 15,825,000 | 15,975,000 | 212 | 570 | 0.821017242 | |
| 21 | 15,900,000 | 16,050,000 | 213 | 1078 | 0.259202707 | ENSBTAG00000021064 |
| 21 | 15,975,000 | 16,125,000 | 214 | 1348 | -0.198684021 | ENSBTAG00000021064 |
| 21 | 16,050,000 | 16,200,000 | 215 | 1221 | -0.726652447 | ENSBTAG00000021064 |
| 21 | 16,125,000 | 16,275,000 | 216 | 1512 | -0.789405629 | SV2B |
| 21 | 16,200,000 | 16,350,000 | 217 | 1043 | -0.764668041 | SV2B |
| 21 | 16,275,000 | 16,425,000 | 218 | 742 | 0.27926282 | SV2B |
| 21 | 16,350,000 | 16,500,000 | 219 | 712 | 0.876331903 | SV2B |
| 21 | 16,425,000 | 16,575,000 | 220 | 417 | 0.527155851 | SV2B |
| 21 | 16,500,000 | 16,650,000 | 221 | 493 | -0.059062288 | |
| 21 | 16,575,000 | 16,725,000 | 222 | 581 | -0.971313248 | AKAP13 |
| 21 | 16,650,000 | 16,800,000 | 223 | 757 | 0.028823997 | AKAP13 |
| 21 | 16,725,000 | 16,875,000 | 224 | 1090 | 0.563050013 | AKAP13 |
| 21 | 16,800,000 | 16,950,000 | 225 | 1129 | 0.198861745 | AKAP13,KLHL25 |
| 21 | 16,875,000 | 17,025,000 | 226 | 1291 | 0.155778874 | AKAP13,KLHL25 |
| 21 | 16,950,000 | 17,100,000 | 227 | 1782 | 0.144900263 | KLHL25 |
| 21 | 17,025,000 | 17,175,000 | 228 | 1864 | 0.361394225 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 17,100,000 | 17,250,000 | 229 | 1476 | 0.818497373 | |
| 21 | 17,175,000 | 17,325,000 | 230 | 1689 | 1.0456218 | |
| 21 | 17,250,000 | 17,400,000 | 231 | 1637 | 0.651894965 | |
| 21 | 17,325,000 | 17,475,000 | 232 | 826 | -0.479526423 | |
| 21 | 17,400,000 | 17,550,000 | 233 | 548 | -1.08754737 | |
| 21 | 17,475,000 | 17,625,000 | 234 | 598 | -0.537130233 | |
| 21 | 17,550,000 | 17,700,000 | 235 | 615 | 0.653157596 | |
| 21 | 17,625,000 | 17,775,000 | 236 | 644 | 0.514659388 | |
| 21 | 17,700,000 | 17,850,000 | 237 | 989 | 0.163871292 | |
| 21 | 17,775,000 | 17,925,000 | 238 | 1218 | 0.523117648 | |
| 21 | 17,850,000 | 18,000,000 | 239 | 1067 | 0.95256714 | |
| 21 | 17,925,000 | 18,075,000 | 240 | 950 | 0.392737693 | |
| 21 | 18,000,000 | 18,150,000 | 241 | 1112 | -0.698862192 | |
| 21 | 18,075,000 | 18,225,000 | 242 | 1098 | -0.383315022 | |
| 21 | 18,150,000 | 18,300,000 | 243 | 673 | 0.722854447 | |
| 21 | 18,225,000 | 18,375,000 | 244 | 511 | 0.698243051 | |
| 21 | 18,300,000 | 18,450,000 | 245 | 666 | 0.905830775 | |
| 21 | 18,375,000 | 18,525,000 | 246 | 738 | 0.872237735 | |
| 21 | 18,450,000 | 18,600,000 | 247 | 864 | 0.841805669 | |
| 21 | 18,525,000 | 18,675,000 | 248 | 1085 | 0.864726371 | |
| 21 | 18,600,000 | 18,750,000 | 249 | 1215 | 0.099917312 | |
| 21 | 18,675,000 | 18,825,000 | 250 | 1402 | -0.594800515 | |
| 21 | 18,750,000 | 18,900,000 | 251 | 1294 | -0.513075568 | |
| 21 | 18,825,000 | 18,975,000 | 252 | 845 | -0.346106295 | |
| 21 | 18,900,000 | 19,050,000 | 253 | 1025 | -0.900479202 | |
| 21 | 18,975,000 | 19,125,000 | 254 | 1122 | -0.466273173 | |
| 21 | 19,050,000 | 19,200,000 | 255 | 846 | 0.360724627 | |
| 21 | 19,125,000 | 19,275,000 | 256 | 898 | 0.308183753 | ENSBTAG00000011213 |
| 21 | 19,200,000 | 19,350,000 | 257 | 843 | 0.106441522 | ENSBTAG00000011213 |
| 21 | 19,275,000 | 19,425,000 | 258 | 857 | -1.264943176 | ENSBTAG00000011213 |
| 21 | 19,350,000 | 19,500,000 | 259 | 1610 | -0.326729228 | NTRK3 |
| 21 | 19,425,000 | 19,575,000 | 260 | 1936 | 0.908958349 | NTRK3 |
| 21 | 19,500,000 | 19,650,000 | 261 | 1869 | -0.598019591 | NTRK3 |
| 21 | 19,575,000 | 19,725,000 | 262 | 2000 | -0.379364724 | |
| 21 | 19,650,000 | 19,800,000 | 263 | 1679 | 0.500379022 | |
| 21 | 19,725,000 | 19,875,000 | 264 | 1508 | 0.100783202 | MRPL46,MRPS11 |
| 21 | 19,800,000 | 19,950,000 | 265 | 1341 | 0.091250375 | DET1,MRPL46,MRPS11 |
| 21 | 19,875,000 | 20,025,000 | 266 | 1251 | 0.468835228 | AEN,DET1,ISG20,MRPS11 |
| 21 | 19,950,000 | 20,100,000 | 267 | 2019 | 0.070297577 | AEN,DET1,ISG20,ENSBTAG0000001308,ENSBTAG00000047729 |
| 21 | 20,025,000 | 20,175,000 | 268 | 2225 | -0.483809492 | ISG20,ENSBTAG0000001308,ENSBTAG00000040580,ENSBTAG00000045929,ENSBTAG00000047729 |
| 21 | 20,100,000 | 20,250,000 | 269 | 2205 | -0.409662577 | ENSBTAG0000001308,ENSBTAG0000002786,ENSBTAG0000040580,ENSBTAG00000045929,ENSBTAG00000047729 |
| 21 | 20,175,000 | 20,325,000 | 270 | 2445 | -0.150770468 | ENSBTAG0000001308,ENSBTAG0000002786 |
| 21 | 20,250,000 | 20,400,000 | 271 | 2275 | 0.025015417 | ENSBTAG00000012326,ENSBTAG00000038494 |
| 21 | 20,325,000 | 20,475,000 | 272 | 2570 | 0.641230779 | ENSBTAG0000004339,ENSBTAG00000012326,ENSBTAG0000038494 |
| 21 | 20,400,000 | 20,550,000 | 273 | 3108 | 0.615245802 | ENSBTAG0000001526,ENSBTAG0000004339 |
| 21 | 20,475,000 | 20,625,000 | 274 | 2820 | 0.314143322 | ENSBTAG0000001526,ENSBTAG00000036082,ENSBTAG0000046377,ENSBTAG00000046412 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 20,550,000 | 20,700,000 | 275 | 2332 | 0.277953146 | ENSBTAG00000017054,ENSBTAG00000036082,ENSBTAG0000046377,ENSBTAG00000046412,ENSBTAG00000048096 |
| | | | | | | 6 |
| 21 | 20,625,000 | 20,775,000 | 276 | 2082 | 0.547822129 | ENSBTAG00000017054,ENSBTAG00000048096 |
| 21 | 20,700,000 | 20,850,000 | 277 | 1480 | 0.95991767 | ACAN |
| 21 | 20,775,000 | 20,925,000 | 278 | 1279 | 1.002657024 | ACAN,HAPLN3,MFGE8 |
| 21 | 20,850,000 | 21,000,000 | 279 | 1468 | 0.577047034 | ABHD2,ACAN,HAPLN3,MFGE8 |
| 21 | 20,925,000 | 21,075,000 | 280 | 1478 | 0.134509987 | ABHD2 |
| 21 | 21,000,000 | 21,150,000 | 281 | 1406 | 0.105755378 | ABHD2,FANCI,RLBP1 |
| 21 | 21,075,000 | 21,225,000 | 282 | 1231 | 0.266657862 | ABHD2,FANCI,POLG,RLBP1 |
| 21 | 21,150,000 | 21,300,000 | 283 | 862 | -1.19630377 | FANCI,POLG,RLBP1 |
| 21 | 21,225,000 | 21,375,000 | 284 | 728 | -1.288723192 | RHCG,RLBP1 |
| 21 | 21,300,000 | 21,450,000 | 285 | 849 | -0.317357186 | RHCG,TICRR |
| 21 | 21,375,000 | 21,525,000 | 286 | 775 | -2.33544512 | KIF7,PEX11A,PLIN,RHCG,TICRR |
| 21 | 21,450,000 | 21,600,000 | 287 | 470 | -3.389919332 | KIF7,PEX11A,PLIN,TICRR,WDR93 |
| 21 | 21,525,000 | 21,675,000 | 288 | 450 | -4.476218925 | ANPEP,MESP2,PEX11A,WDR93 |
| 21 | 21,600,000 | 21,750,000 | 289 | 536 | -3.275712985 | ANPEP,AP3S2,ARPIN,MESP2 |
| 21 | 21,675,000 | 21,825,000 | 290 | 884 | -0.759187853 | AP3S2,ARPIN |
| 21 | 21,750,000 | 21,900,000 | 291 | 1155 | 0.022287179 | ZNF710 |
| 21 | 21,825,000 | 21,975,000 | 292 | 866 | 0.874301994 | IDH2,ZNF710 |
| 21 | 21,900,000 | 22,050,000 | 293 | 533 | 0.694599909 | CIB1,GDPGP1,IDH2,SEMA4B |
| 21 | 21,975,000 | 22,125,000 | 294 | 326 | 0.063159158 | CIB1,GDPGP1,NGRN,PRC1,SEMA4B,VPS33B |
| 21 | 22,050,000 | 22,200,000 | 295 | 310 | -0.164603884 | FES,GDPGP1,HDDC3,MAN2A2,NGRN,PRC1,RCCD1,UNC45A,VPS33B |
| 21 | 22,125,000 | 22,275,000 | 296 | 365 | -0.066125172 | BLM,FES,FURIN,HDDC3,MAN2A2,RCCD1,UNC45A |
| 21 | 22,200,000 | 22,350,000 | 297 | 503 | -1.552956384 | BLM,FES,FURIN |
| 21 | 22,275,000 | 22,425,000 | 298 | 624 | -2.157807258 | BLM,CRTC3 |
| 21 | 22,350,000 | 22,500,000 | 299 | 481 | -1.342878541 | CRTC3 |
| 21 | 22,425,000 | 22,575,000 | 300 | 722 | -0.318462828 | CRTC3,IQGAP1 |
| 21 | 22,500,000 | 22,650,000 | 301 | 962 | -0.208640774 | IQGAP1 |
| 21 | 22,575,000 | 22,725,000 | 302 | 824 | 0.398548909 | IQGAP1,ZNF774,ZSCAN2 |
| 21 | 22,650,000 | 22,800,000 | 303 | 641 | 0.787057205 | NMB,SEC11A,WDR73,ZNF774,ZSCAN2 |
| 21 | 22,725,000 | 22,875,000 | 304 | 452 | 0.996137258 | NMB,SEC11A,WDR73,ZNF592 |
| 21 | 22,800,000 | 22,950,000 | 305 | 547 | 0.972295584 | ALPK3,SLC28A1,ZNF592 |
| 21 | 22,875,000 | 23,025,000 | 306 | 803 | 0.858035774 | ALPK3,SLC28A1 |
| 21 | 22,950,000 | 23,100,000 | 307 | 949 | 0.071514043 | SLC28A1 |
| 21 | 23,025,000 | 23,175,000 | 308 | 696 | -0.722811377 | PDE8A,SLC28A1 |
| 21 | 23,100,000 | 23,250,000 | 309 | 461 | -0.038067994 | PDE8A |
| 21 | 23,175,000 | 23,325,000 | 310 | 612 | 0.1313654 | PDE8A,RPS17,ENSBTAG00000000623 |
| 21 | 23,250,000 | 23,400,000 | 311 | 724 | 0.007305537 | PDE8A,RPS17,ENSBTAG00000000623 |
| 21 | 23,325,000 | 23,475,000 | 312 | 775 | 0.483200978 | ENSBTAG00000000623,ENSBTAG00000008495 |
| 21 | 23,400,000 | 23,550,000 | 313 | 1137 | 0.757106552 | FSD2,WHAMM,ENSBTAG00000008495 |
| 21 | 23,475,000 | 23,625,000 | 314 | 1297 | 0.855101718 | FSD2,HOMER2,WHAMM |
| 21 | 23,550,000 | 23,700,000 | 315 | 1087 | 0.875040427 | HOMER2,WHAMM |
| 21 | 23,625,000 | 23,775,000 | 316 | 1104 | 0.693637543 | C21H15ORF40,HOMER2,MGC127733 |
| 21 | 23,700,000 | 23,850,000 | 317 | 1319 | 0.853953984 | C21H15ORF40,MGC127733 |
| 21 | 23,775,000 | 23,925,000 | 318 | 1666 | 0.907442918 | ENSBTAG00000047366 |
| 21 | 23,850,000 | 24,000,000 | 319 | 1272 | 0.874982139 | ENSBTAG00000047366 |
| 21 | 23,925,000 | 24,075,000 | 320 | 434 | 0.913503892 | |
| 21 | 24,000,000 | 24,150,000 | 321 | 295 | 0.761630347 | |
| 21 | 24,075,000 | 24,225,000 | 322 | 277 | 1.125654964 | |
| 21 | 24,150,000 | 24,300,000 | 323 | 254 | 1.24843901 | |
| 21 | 24,225,000 | 24,375,000 | 324 | 440 | 1.12506113 | MEX3B |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 21 | 24,300,000 | 24,450,000 | 325 | 642 | 0.788901047 | EFTUD1,MEX3B |
| 21 | 24,375,000 | 24,525,000 | 326 | 848 | 0.663714278 | EFTUD1,FAM154B |
| 21 | 24,450,000 | 24,600,000 | 327 | 693 | 0.642800662 | ADAMTSL3,EFTUD1,FAM154B |
| 21 | 24,525,000 | 24,675,000 | 328 | 352 | 0.586528266 | ADAMTSL3,FAM154B |
| 21 | 24,600,000 | 24,750,000 | 329 | 325 | 0.331994711 | ADAMTSL3 |
| 21 | 24,675,000 | 24,825,000 | 330 | 350 | -0.824821988 | ADAMTSL3 |
| 21 | 24,750,000 | 24,900,000 | 331 | 376 | -1.311386808 | ADAMTSL3 |
| 21 | 24,825,000 | 24,975,000 | 332 | 347 | -1.73525708 | ADAMTSL3 |
| 21 | 24,900,000 | 25,050,000 | 333 | 559 | -1.399729159 | SH3GL3 |
| 21 | 24,975,000 | 25,125,000 | 334 | 682 | -0.113257478 | SH3GL3 |
| 21 | 25,050,000 | 25,200,000 | 335 | 446 | 0.307113693 | |
| 21 | 25,125,000 | 25,275,000 | 336 | 330 | -0.213258464 | BNC1 |
| 21 | 25,200,000 | 25,350,000 | 337 | 322 | -0.502373606 | BNC1,HDGFRP3 |
| 21 | 25,275,000 | 25,425,000 | 338 | 486 | -0.145843465 | HDGFRP3,TM6SF1 |
| 21 | 25,350,000 | 25,500,000 | 339 | 495 | -0.007653354 | BTBD1,HDGFRP3,TM6SF1 |
| 21 | 25,425,000 | 25,575,000 | 340 | 349 | 0.006371589 | BTBD1 |
| 21 | 25,500,000 | 25,650,000 | 341 | 360 | -0.267816012 | BTBD1 |
| 21 | 25,575,000 | 25,725,000 | 342 | 464 | -0.805223355 | CTSH,RASGRF1,ENSBTAG00000010988 |
| 21 | 25,650,000 | 25,800,000 | 343 | 486 | -1.076495305 | CTSH,RASGRF1,ENSBTAG00000010988 |
| 21 | 25,725,000 | 25,875,000 | 344 | 416 | -0.681380981 | RASGRF1 |
| 21 | 25,800,000 | 25,950,000 | 345 | 391 | 0.359890551 | RASGRF1 |
| 21 | 25,875,000 | 26,025,000 | 346 | 530 | 0.549357801 | ANKRD34C,TMED3 |
| 21 | 25,950,000 | 26,100,000 | 347 | 481 | 0.34414375 | ANKRD34C,TMED3 |
| 21 | 26,025,000 | 26,175,000 | 348 | 457 | -0.087534799 | KIAA1024 |
| 21 | 26,100,000 | 26,250,000 | 349 | 723 | -0.04916538 | KIAA1024,ENSBTAG00000047935 |
| 21 | 26,175,000 | 26,325,000 | 350 | 807 | 0.31341484 | ENSBTAG00000047935 |
| 21 | 26,250,000 | 26,400,000 | 351 | 1336 | -0.606430263 | |
| 21 | 26,325,000 | 26,475,000 | 352 | 1322 | -0.83897174 | MTHFS |
| 21 | 26,400,000 | 26,550,000 | 353 | 582 | 0.211809649 | BCL2A1,MTHFS,ZFAND6 |
| 21 | 26,475,000 | 26,625,000 | 354 | 358 | 1.001574333 | BCL2A1,FAH,ZFAND6,ENSBTAG00000048314 |
| 21 | 26,550,000 | 26,700,000 | 355 | 429 | 0.20009596 | FAH,ZFAND6,ENSBTAG00000048314 |
| 21 | 26,625,000 | 26,775,000 | 356 | 611 | 0.232906645 | FAH |
| 21 | 26,700,000 | 26,850,000 | 357 | 876 | 0.858868224 | ENSBTAG00000047587 |
| 21 | 26,775,000 | 26,925,000 | 358 | 1056 | 0.345533368 | ARNT2,ENSBTAG00000047587 |
| 21 | 26,850,000 | 27,000,000 | 359 | 792 | -1.070698386 | ARNT2 |
| 21 | 26,925,000 | 27,075,000 | 360 | 661 | -0.061782596 | ABHD17C,ARNT2 |
| 21 | 27,000,000 | 27,150,000 | 361 | 637 | 0.934934605 | ABHD17C |
| 21 | 27,075,000 | 27,225,000 | 362 | 434 | 0.443563428 | ABHD17C |
| 21 | 27,150,000 | 27,300,000 | 363 | 391 | 0.175418717 | CEMIP |
| 21 | 27,225,000 | 27,375,000 | 364 | 359 | -0.64402753 | CEMIP,MESDC1,MESDC2 |
| 21 | 27,300,000 | 27,450,000 | 365 | 352 | -1.449133138 | C21H15ORF26,MESDC1,MESDC2 |
| 21 | 27,375,000 | 27,525,000 | 366 | 489 | -1.138545008 | C21H15ORF26 |
| 21 | 27,450,000 | 27,600,000 | 367 | 403 | -1.106223427 | C21H15ORF26,IL16 |
| 21 | 27,525,000 | 27,675,000 | 368 | 421 | -2.439980514 | IL16,STARD5,TMC3 |
| 21 | 27,600,000 | 27,750,000 | 369 | 726 | -1.694738832 | IL16,STARD5,TMC3 |
| 21 | 27,675,000 | 27,825,000 | 370 | 703 | -0.777402495 | TMC3 |
| 21 | 27,750,000 | 27,900,000 | 371 | 456 | -0.719911042 | MCEE |
| 21 | 27,825,000 | 27,975,000 | 372 | 322 | -0.046061544 | FAN1,MCEE,MPHOSPH10,MTMR10 |
| 21 | 27,900,000 | 28,050,000 | 373 | 377 | 0.907720162 | FAN1,MCEE,MPHOSPH10,MTMR10,TRPM1 |
| 21 | 27,975,000 | 28,125,000 | 374 | 702 | 1.161897541 | MTMR10,TRPM1 |
| 21 | 28,050,000 | 28,200,000 | 375 | 842 | 1.146339731 | TRPM1 |
| 21 | 28,125,000 | 28,275,000 | 376 | 579 | 1.095271599 | |
| 21 | 28,200,000 | 28,350,000 | 377 | 601 | -0.371372795 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 21 | 28,275,000 | 28,425,000 | 378 | 1224 | 0.078973594 | |
| 21 | 28,350,000 | 28,500,000 | 379 | 1524 | 0.550597512 | |
| 21 | 28,425,000 | 28,575,000 | 380 | 1082 | 0.326550231 | APBA2 |
| 21 | 28,500,000 | 28,650,000 | 381 | 550 | 0.582408829 | APBA2,FAM189A1 |
| 21 | 28,575,000 | 28,725,000 | 382 | 287 | 0.078564581 | APBA2,FAM189A1,NDNL2 |
| 21 | 28,650,000 | 28,800,000 | 383 | 314 | 0.062064279 | FAM189A1,NDNL2 |
| 21 | 28,725,000 | 28,875,000 | 384 | 367 | 0.653415296 | |
| 21 | 28,800,000 | 28,950,000 | 385 | 431 | 0.89483499 | ZO1 |
| 21 | 28,875,000 | 29,025,000 | 386 | 322 | 0.839620131 | ZO1 |
| 21 | 28,950,000 | 29,100,000 | 387 | 202 | 0.627053647 | ZO1 |
| 21 | 29,025,000 | 29,175,000 | 388 | 207 | 0.594482751 | |
| 21 | 29,100,000 | 29,250,000 | 389 | 220 | 1.024942809 | |
| 21 | 29,175,000 | 29,325,000 | 390 | 418 | 0.610066261 | TARSL2 |
| 21 | 29,250,000 | 29,400,000 | 391 | 454 | 0.356840249 | TARSL2,TM2D3 |
| 21 | 29,325,000 | 29,475,000 | 392 | 267 | 0.229177138 | TARSL2,TM2D3 |
| 21 | 29,400,000 | 29,550,000 | 393 | 259 | -0.455304195 | |
| 21 | 29,475,000 | 29,625,000 | 394 | 517 | 0.021250669 | PCSK6 |
| 21 | 29,550,000 | 29,700,000 | 395 | 847 | 0.685372509 | PCSK6,SNRPA1 |
| 21 | 29,625,000 | 29,775,000 | 396 | 990 | 0.786412243 | PCSK6,SNRPA1,ENSBTAG00000003957 |
| 21 | 29,700,000 | 29,850,000 | 397 | 896 | 0.807639726 | ENSBTAG00000003957 |
| 21 | 29,775,000 | 29,925,000 | 398 | 613 | 0.791237097 | |
| 21 | 29,850,000 | 30,000,000 | 399 | 611 | -0.053571915 | ENSBTAG00000047130 |
| 21 | 29,925,000 | 30,075,000 | 400 | 542 | 0.112865298 | ENSBTAG00000047130 |
| 21 | 30,000,000 | 30,150,000 | 401 | 439 | 0.286531729 | CHRNA7 |
| 21 | 30,075,000 | 30,225,000 | 402 | 518 | 0.252314103 | CHRNA7 |
| 21 | 30,150,000 | 30,300,000 | 403 | 615 | 0.604652501 | |
| 21 | 30,225,000 | 30,375,000 | 404 | 618 | 0.548958026 | |
| 21 | 30,300,000 | 30,450,000 | 405 | 819 | 0.506816306 | |
| 21 | 30,375,000 | 30,525,000 | 406 | 985 | 0.871319021 | |
| 21 | 30,450,000 | 30,600,000 | 407 | 529 | 1.126767633 | |
| 21 | 30,525,000 | 30,675,000 | 408 | 286 | -1.063311226 | OTUD7A |
| 21 | 30,600,000 | 30,750,000 | 409 | 445 | -4.976478904 | OTUD7A |
| 21 | 30,675,000 | 30,825,000 | 410 | 533 | -4.918983072 | OTUD7A |
| 21 | 30,750,000 | 30,900,000 | 411 | 509 | -0.996998218 | ADAMTS7,OTUD7A |
| 21 | 30,825,000 | 30,975,000 | 412 | 583 | -0.687747304 | ADAMTS7,TBC1D2B |
| 21 | 30,900,000 | 31,050,000 | 413 | 569 | -1.516100676 | CIB2,SH2D7,TBC1D2B |
| 21 | 30,975,000 | 31,125,000 | 414 | 535 | -0.863194314 | ACSBG1,CIB2,IDH3A,SH2D7 |
| 21 | 31,050,000 | 31,200,000 | 415 | 403 | 0.100918983 | ACSBG1,DNAJA4,IDH3A,WDR61 |
| 21 | 31,125,000 | 31,275,000 | 416 | 218 | -0.891724679 | ACSBG1,CRABP1,DNAJA4,WDR61 |
| 21 | 31,200,000 | 31,350,000 | 417 | 386 | -1.871187487 | CRABP1,WDR61 |
| 21 | 31,275,000 | 31,425,000 | 418 | 464 | -1.84887896 | HYKK,IREB2 |
| 21 | 31,350,000 | 31,500,000 | 419 | 455 | -0.328249843 | CHRNA5,HYKK,IREB2,PSMA4 |
| 21 | 31,425,000 | 31,575,000 | 420 | 576 | 0.24661077 | CHRNA3,CHRNA5,CHRN4,HYKK,PSMA4 |
| 21 | 31,500,000 | 31,650,000 | 421 | 574 | 0.011734376 | CHRNA3,CHRN4,UBE2Q2 |
| 21 | 31,575,000 | 31,725,000 | 422 | 339 | 0.128839074 | FBXO22,UBE2Q2 |
| 21 | 31,650,000 | 31,800,000 | 423 | 122 | 8.37E-05 | FBXO22,UBE2Q2 |
| 21 | 31,725,000 | 31,875,000 | 424 | 128 | -1.336569825 | C15orf27,FBXO22 |
| 21 | 31,800,000 | 31,950,000 | 425 | 274 | -0.571215385 | C15orf27 |
| 21 | 31,875,000 | 32,025,000 | 426 | 245 | 0.07147691 | C15orf27,ETFA |
| 21 | 31,950,000 | 32,100,000 | 427 | 101 | 1.23376071 | C15orf27,ETFA |
| 21 | 32,025,000 | 32,175,000 | 428 | 136 | 1.365760609 | ETFA,ISL2,SCAPER |
| 21 | 32,100,000 | 32,250,000 | 429 | 167 | 1.367751255 | ISL2,SCAPER |
| 21 | 32,175,000 | 32,325,000 | 430 | 166 | 1.412897766 | SCAPER |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 32,250,000 | 32,400,000 | 431 | 141 | 1.411606291 | SCAPER |
| 21 | 32,325,000 | 32,475,000 | 432 | 260 | 0.966053252 | SCAPER |
| 21 | 32,400,000 | 32,550,000 | 433 | 526 | 0.744044709 | SCAPER |
| 21 | 32,475,000 | 32,625,000 | 434 | 431 | -0.516335526 | RCN2,SCAPER |
| 21 | 32,550,000 | 32,700,000 | 435 | 285 | -5.066379756 | PSTPIP1,RCN2 |
| 21 | 32,625,000 | 32,775,000 | 436 | 239 | -5.26056939 | PEAK1,PSTPIP1,TSPAN3 |
| 21 | 32,700,000 | 32,850,000 | 437 | 161 | -1.797357984 | PEAK1,TSPAN3 |
| 21 | 32,775,000 | 32,925,000 | 438 | 207 | 0.268796373 | PEAK1 |
| 21 | 32,850,000 | 33,000,000 | 439 | 157 | 0.798484601 | |
| 21 | 32,925,000 | 33,075,000 | 440 | 108 | -0.032296838 | |
| 21 | 33,000,000 | 33,150,000 | 441 | 214 | -2.680025203 | HMG20A |
| 21 | 33,075,000 | 33,225,000 | 442 | 565 | -0.353302016 | HMG20A |
| 21 | 33,150,000 | 33,300,000 | 443 | 717 | 0.872944175 | HMG20A,LINGO1 |
| 21 | 33,225,000 | 33,375,000 | 444 | 461 | 1.088578581 | LINGO1 |
| 21 | 33,300,000 | 33,450,000 | 445 | 420 | 1.267720577 | |
| 21 | 33,375,000 | 33,525,000 | 446 | 496 | 0.717534204 | |
| 21 | 33,450,000 | 33,600,000 | 447 | 408 | -2.370962778 | CSPG4,ODF3L1 |
| 21 | 33,525,000 | 33,675,000 | 448 | 438 | -2.081887841 | CSPG4,IMP3,ODF3L1,SNUPN,SNX33 |
| 21 | 33,600,000 | 33,750,000 | 449 | 406 | -2.079539524 | CSPG4,IMP3,PTPN9,SNUPN,SNX33 |
| 21 | 33,675,000 | 33,825,000 | 450 | 268 | -2.46816062 | PTPN9,SIN3A,SNUPN |
| 21 | 33,750,000 | 33,900,000 | 451 | 366 | -2.298188915 | COMMD4,MAN2C1,NEIL1,PTPN9,SIN3A |
| 21 | 33,825,000 | 33,975,000 | 452 | 534 | -0.727237553 | C15orf39,COMMD4,MAN2C1,NEIL1,SIN3A,ENSBTAG000000032631 |
| 21 | 33,900,000 | 34,050,000 | 453 | 676 | -0.14272894 | C15orf39,ENSBTAG000000032631 |
| 21 | 33,975,000 | 34,125,000 | 454 | 531 | -0.635495462 | MDS018,SCAMP5 |
| 21 | 34,050,000 | 34,200,000 | 455 | 340 | -0.565071078 | COX5A,FAM219B,MDS018,MPI,RPP25,SCAMP5 |
| 21 | 34,125,000 | 34,275,000 | 456 | 339 | 0.124970399 | COX5A,CPLX3,CSK,FAM219B,LMAN1L,MPI,RPP25,SCAMP2,ULK3 |
| 21 | 34,200,000 | 34,350,000 | 457 | 304 | 0.451313591 | CPLX3,CSK,CYP1A1,CYP1A2,LMAN1L,SCAMP2,ULK3 |
| 21 | 34,275,000 | 34,425,000 | 458 | 389 | -1.417135855 | CSK,CYP1A1,CYP1A2,FLJ21128 |
| 21 | 34,350,000 | 34,500,000 | 459 | 379 | -3.354675018 | ARID3B,CLK3,FLJ21128 |
| 21 | 34,425,000 | 34,575,000 | 460 | 405 | -2.549510539 | ARID3B,CLK3,FLJ21128 |
| 21 | 34,500,000 | 34,650,000 | 461 | 352 | -1.97400176 | ARID3B,BMSC-UBP,SEMA7A |
| 21 | 34,575,000 | 34,725,000 | 462 | 460 | -0.316593131 | BMSC-UBP,CYP11A1,SEMA7A |
| 21 | 34,650,000 | 34,800,000 | 463 | 540 | 0.239650899 | CCDC33,CYP11A1,SEMA7A |
| 21 | 34,725,000 | 34,875,000 | 464 | 409 | 0.895907356 | CCDC33,CYP11A1 |
| 21 | 34,800,000 | 34,950,000 | 465 | 428 | 0.987205395 | CCDC33,ISLR,STRA6 |
| 21 | 34,875,000 | 35,025,000 | 466 | 381 | 0.908230201 | ISLR,ISLR2,PML,STRA6 |
| 21 | 34,950,000 | 35,100,000 | 467 | 399 | -0.908994449 | ISLR2,LOXL1,PML,STOML1 |
| 21 | 35,025,000 | 35,175,000 | 468 | 551 | -2.540873698 | GZMB,LOXL1,PML,STOML1,ENSBTAG00000013234,ENSBTAG00000027033,ENSBTAG00000037578,ENSBTAG00000038159 |
| 21 | 35,100,000 | 35,250,000 | 469 | 620 | -2.011734318 | GZMB,ENSBTAG00000010828,ENSBTAG00000013055,ENSBTAG00000013234,ENSBTAG00000027033,ENSBTAG00000037578,ENSBTAG00000038080,ENSBTAG00000038159,ENSBTAG00000040134 |
| 21 | 35,175,000 | 35,325,000 | 470 | 565 | -2.374676455 | GZMB,ENSBTAG00000010828,ENSBTAG00000013055,ENSBTAG00000038080,ENSBTAG00000040134 |
| 21 | 35,250,000 | 35,400,000 | 471 | 1087 | -1.232117602 | GZMB |
| 21 | 35,325,000 | 35,475,000 | 472 | 1498 | -1.437684356 | STXBP6 |
| 21 | 35,400,000 | 35,550,000 | 473 | 1388 | -1.727207303 | STXBP6 |
| 21 | 35,475,000 | 35,625,000 | 474 | 974 | -1.029594042 | STXBP6 |
| 21 | 35,550,000 | 35,700,000 | 475 | 1040 | 0.181974909 | STXBP6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 21 | 35,625,000 | 35,775,000 | 476 | 1413 | -0.015750276 | STXBP6 |
| 21 | 35,700,000 | 35,850,000 | 477 | 1633 | -0.302003461 | |
| 21 | 35,775,000 | 35,925,000 | 478 | 1777 | 0.415634551 | |
| 21 | 35,850,000 | 36,000,000 | 479 | 1516 | 0.651632499 | |
| 21 | 35,925,000 | 36,075,000 | 480 | 1061 | 0.433406638 | |
| 21 | 36,000,000 | 36,150,000 | 481 | 730 | 0.553775213 | |
| 21 | 36,075,000 | 36,225,000 | 482 | 1164 | 0.071295334 | |
| 21 | 36,150,000 | 36,300,000 | 483 | 1086 | -0.37464869 | |
| 21 | 36,225,000 | 36,375,000 | 484 | 539 | -0.639003357 | |
| 21 | 36,300,000 | 36,450,000 | 485 | 556 | 0.28064711 | |
| 21 | 36,375,000 | 36,525,000 | 486 | 766 | -0.009545725 | |
| 21 | 36,450,000 | 36,600,000 | 487 | 1012 | -0.161311732 | |
| 21 | 36,525,000 | 36,675,000 | 488 | 818 | -0.115346221 | |
| 21 | 36,600,000 | 36,750,000 | 489 | 496 | -0.068701534 | |
| 21 | 36,675,000 | 36,825,000 | 490 | 573 | 0.196015268 | |
| 21 | 36,750,000 | 36,900,000 | 491 | 801 | -0.841934328 | |
| 21 | 36,825,000 | 36,975,000 | 492 | 1144 | -0.972520022 | |
| 21 | 36,900,000 | 37,050,000 | 493 | 1102 | -0.07708411 | |
| 21 | 36,975,000 | 37,125,000 | 494 | 855 | 0.469146326 | NOVA1 |
| 21 | 37,050,000 | 37,200,000 | 495 | 708 | 0.601275921 | NOVA1 |
| 21 | 37,125,000 | 37,275,000 | 496 | 475 | 0.056626487 | NOVA1 |
| 21 | 37,200,000 | 37,350,000 | 497 | 426 | -0.917762196 | NOVA1 |
| 21 | 37,275,000 | 37,425,000 | 498 | 604 | -0.070441218 | |
| 21 | 37,350,000 | 37,500,000 | 499 | 925 | 0.515095386 | |
| 21 | 37,425,000 | 37,575,000 | 500 | 1153 | 0.096787551 | |
| 21 | 37,500,000 | 37,650,000 | 501 | 959 | 0.409276297 | |
| 21 | 37,575,000 | 37,725,000 | 502 | 553 | 1.062671744 | |
| 21 | 37,650,000 | 37,800,000 | 503 | 358 | 0.620815225 | |
| 21 | 37,725,000 | 37,875,000 | 504 | 629 | 0.551515176 | |
| 21 | 37,800,000 | 37,950,000 | 505 | 920 | 0.459848996 | |
| 21 | 37,875,000 | 38,025,000 | 506 | 1129 | 0.834253804 | |
| 21 | 37,950,000 | 38,100,000 | 507 | 1007 | 1.089159011 | |
| 21 | 38,025,000 | 38,175,000 | 508 | 786 | 1.144475997 | |
| 21 | 38,100,000 | 38,250,000 | 509 | 1180 | 1.082703938 | |
| 21 | 38,175,000 | 38,325,000 | 510 | 1360 | 0.795716093 | ENSBTAG00000031558 |
| 21 | 38,250,000 | 38,400,000 | 511 | 937 | 0.21866277 | ENSBTAG00000031558 |
| 21 | 38,325,000 | 38,475,000 | 512 | 596 | 0.161176927 | |
| 21 | 38,400,000 | 38,550,000 | 513 | 818 | 0.127190764 | |
| 21 | 38,475,000 | 38,625,000 | 514 | 887 | -0.501629481 | |
| 21 | 38,550,000 | 38,700,000 | 515 | 919 | 0.728093877 | |
| 21 | 38,625,000 | 38,775,000 | 516 | 1153 | 0.965499891 | |
| 21 | 38,700,000 | 38,850,000 | 517 | 1205 | 0.700203079 | |
| 21 | 38,775,000 | 38,925,000 | 518 | 1149 | -0.295408999 | |
| 21 | 38,850,000 | 39,000,000 | 519 | 718 | -0.701286322 | |
| 21 | 38,925,000 | 39,075,000 | 520 | 331 | -0.101757965 | |
| 21 | 39,000,000 | 39,150,000 | 521 | 300 | -0.022435853 | |
| 21 | 39,075,000 | 39,225,000 | 522 | 444 | -0.633836793 | |
| 21 | 39,150,000 | 39,300,000 | 523 | 531 | -0.153665731 | |
| 21 | 39,225,000 | 39,375,000 | 524 | 522 | 0.664089483 | |
| 21 | 39,300,000 | 39,450,000 | 525 | 503 | 0.075528793 | |
| 21 | 39,375,000 | 39,525,000 | 526 | 618 | 0.489711791 | |
| 21 | 39,450,000 | 39,600,000 | 527 | 625 | 0.460660114 | |
| 21 | 39,525,000 | 39,675,000 | 528 | 599 | 0.088982153 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 21 | 39,600,000 | 39,750,000 | 529 | 643 | -0.983211335 | |
| 21 | 39,675,000 | 39,825,000 | 530 | 580 | -1.418272405 | |
| 21 | 39,750,000 | 39,900,000 | 531 | 422 | 0.554093758 | |
| 21 | 39,825,000 | 39,975,000 | 532 | 393 | -0.060437794 | |
| 21 | 39,900,000 | 40,050,000 | 533 | 522 | 0.202798223 | |
| 21 | 39,975,000 | 40,125,000 | 534 | 482 | 0.583097303 | |
| 21 | 40,050,000 | 40,200,000 | 535 | 369 | 0.717923257 | |
| 21 | 40,125,000 | 40,275,000 | 536 | 337 | 0.361827396 | |
| 21 | 40,200,000 | 40,350,000 | 537 | 427 | -0.54257604 | |
| 21 | 40,275,000 | 40,425,000 | 538 | 698 | -0.17431408 | |
| 21 | 40,350,000 | 40,500,000 | 539 | 696 | -0.694206273 | |
| 21 | 40,425,000 | 40,575,000 | 540 | 477 | -1.20989493 | PRKD1 |
| 21 | 40,500,000 | 40,650,000 | 541 | 401 | -0.55163868 | PRKD1 |
| 21 | 40,575,000 | 40,725,000 | 542 | 642 | 0.289997237 | PRKD1 |
| 21 | 40,650,000 | 40,800,000 | 543 | 940 | 0.91767338 | PRKD1 |
| 21 | 40,725,000 | 40,875,000 | 544 | 812 | 0.600027275 | |
| 21 | 40,800,000 | 40,950,000 | 545 | 745 | 0.390391935 | |
| 21 | 40,875,000 | 41,025,000 | 546 | 530 | 0.132810432 | |
| 21 | 40,950,000 | 41,100,000 | 547 | 277 | -1.027049016 | |
| 21 | 41,025,000 | 41,175,000 | 548 | 301 | -0.452921457 | |
| 21 | 41,100,000 | 41,250,000 | 549 | 366 | 0.020086389 | |
| 21 | 41,175,000 | 41,325,000 | 550 | 493 | 0.72697962 | |
| 21 | 41,250,000 | 41,400,000 | 551 | 436 | 0.879354945 | |
| 21 | 41,325,000 | 41,475,000 | 552 | 252 | 0.573491758 | |
| 21 | 41,400,000 | 41,550,000 | 553 | 324 | 0.835057498 | |
| 21 | 41,475,000 | 41,625,000 | 554 | 404 | 0.415272458 | |
| 21 | 41,550,000 | 41,700,000 | 555 | 378 | 0.518415992 | G2E3,SCFD1 |
| 21 | 41,625,000 | 41,775,000 | 556 | 450 | 1.163693949 | G2E3,SCFD1 |
| 21 | 41,700,000 | 41,850,000 | 557 | 839 | 0.284582392 | SCFD1 |
| 21 | 41,775,000 | 41,925,000 | 558 | 1080 | 0.236739944 | SCFD1 |
| 21 | 41,850,000 | 42,000,000 | 559 | 730 | 0.554763416 | COCH,STRN3 |
| 21 | 41,925,000 | 42,075,000 | 560 | 349 | -0.358807504 | AP4S1,COCH,STRN3 |
| 21 | 42,000,000 | 42,150,000 | 561 | 288 | -0.767255138 | AP4S1,HECTD1,STRN3 |
| 21 | 42,075,000 | 42,225,000 | 562 | 300 | -0.822935419 | AP4S1,HECTD1 |
| 21 | 42,150,000 | 42,300,000 | 563 | 279 | -2.070359886 | HEATR5A,HECTD1 |
| 21 | 42,225,000 | 42,375,000 | 564 | 587 | -0.959053615 | HEATR5A |
| 21 | 42,300,000 | 42,450,000 | 565 | 701 | 0.078866857 | GPR33,HEATR5A,ENSBTAG00000038020 |
| 21 | 42,375,000 | 42,525,000 | 566 | 784 | 1.093532782 | GPR33,NUBPL,ENSBTAG00000038020 |
| 21 | 42,450,000 | 42,600,000 | 567 | 1186 | 1.17164052 | NUBPL |
| 21 | 42,525,000 | 42,675,000 | 568 | 1080 | 0.914339564 | NUBPL |
| 21 | 42,600,000 | 42,750,000 | 569 | 563 | 0.613192746 | NUBPL |
| 21 | 42,675,000 | 42,825,000 | 570 | 231 | 0.509085235 | NUBPL |
| 21 | 42,750,000 | 42,900,000 | 571 | 166 | -0.915451496 | |
| 21 | 42,825,000 | 42,975,000 | 572 | 180 | -0.609443332 | ARHGAP5 |
| 21 | 42,900,000 | 43,050,000 | 573 | 347 | 0.066155866 | ARHGAP5 |
| 21 | 42,975,000 | 43,125,000 | 574 | 675 | 0.239472362 | ARHGAP5 |
| 21 | 43,050,000 | 43,200,000 | 575 | 853 | 0.097201286 | AKAP6 |
| 21 | 43,125,000 | 43,275,000 | 576 | 810 | -0.30098719 | AKAP6 |
| 21 | 43,200,000 | 43,350,000 | 577 | 782 | -0.864914625 | AKAP6 |
| 21 | 43,275,000 | 43,425,000 | 578 | 836 | -0.853354223 | AKAP6 |
| 21 | 43,350,000 | 43,500,000 | 579 | 557 | -0.202712394 | AKAP6 |
| 21 | 43,425,000 | 43,575,000 | 580 | 264 | -0.44265469 | AKAP6 |
| 21 | 43,500,000 | 43,650,000 | 581 | 546 | 0.114454335 | AKAP6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 43,575,000 | 43,725,000 | 582 | 710 | 0.209699237 | AKAP6 |
| 21 | 43,650,000 | 43,800,000 | 583 | 557 | 0.449183959 | |
| 21 | 43,725,000 | 43,875,000 | 584 | 638 | 0.222888988 | |
| 21 | 43,800,000 | 43,950,000 | 585 | 734 | 0.066683429 | |
| 21 | 43,875,000 | 44,025,000 | 586 | 641 | -0.071797856 | |
| 21 | 43,950,000 | 44,100,000 | 587 | 531 | -0.842266535 | |
| 21 | 44,025,000 | 44,175,000 | 588 | 669 | -1.234861436 | |
| 21 | 44,100,000 | 44,250,000 | 589 | 615 | -0.595977615 | |
| 21 | 44,175,000 | 44,325,000 | 590 | 431 | -0.020090665 | |
| 21 | 44,250,000 | 44,400,000 | 591 | 522 | 0.084912207 | |
| 21 | 44,325,000 | 44,475,000 | 592 | 682 | 0.027522097 | |
| 21 | 44,400,000 | 44,550,000 | 593 | 634 | -0.180474096 | |
| 21 | 44,475,000 | 44,625,000 | 594 | 382 | -0.11962204 | |
| 21 | 44,550,000 | 44,700,000 | 595 | 368 | -3.566458009 | NPAS3 |
| 21 | 44,625,000 | 44,775,000 | 596 | 499 | -1.609859426 | NPAS3 |
| 21 | 44,700,000 | 44,850,000 | 597 | 657 | 0.555568635 | EGLN3,NPAS3 |
| 21 | 44,775,000 | 44,925,000 | 598 | 955 | 0.778670471 | EGLN3 |
| 21 | 44,850,000 | 45,000,000 | 599 | 837 | 0.372171196 | |
| 21 | 44,925,000 | 45,075,000 | 600 | 651 | -1.396489451 | |
| 21 | 45,000,000 | 45,150,000 | 601 | 862 | -0.35760446 | |
| 21 | 45,075,000 | 45,225,000 | 602 | 1270 | 0.28336559 | |
| 21 | 45,150,000 | 45,300,000 | 603 | 1344 | -0.640263743 | ENSBTAG00000047905 |
| 21 | 45,225,000 | 45,375,000 | 604 | 749 | -1.90308931 | EAPP,SPTSSA,ENSBTAG00000047905 |
| 21 | 45,300,000 | 45,450,000 | 605 | 461 | -2.970897269 | EAPP,SNX6,SPTSSA,ENSBTAG00000047905 |
| 21 | 45,375,000 | 45,525,000 | 606 | 406 | -2.735709947 | CFL2,SNX6 |
| 21 | 45,450,000 | 45,600,000 | 607 | 315 | 1.034941127 | BAZ1A,CFL2,SNX6 |
| 21 | 45,525,000 | 45,675,000 | 608 | 327 | 1.181881181 | BAZ1A |
| 21 | 45,600,000 | 45,750,000 | 609 | 549 | 1.253425752 | MGC142695,SRP54 |
| 21 | 45,675,000 | 45,825,000 | 610 | 610 | 0.90765565 | FAM177A1,KIAA0391,MGC142695,PPP2R3C,SRP54 |
| 21 | 45,750,000 | 45,900,000 | 611 | 372 | 0.400689355 | FAM177A1,KIAA0391,PPP2R3C,SRP54 |
| 21 | 45,825,000 | 45,975,000 | 612 | 499 | 0.012863168 | KIAA0391,PSMA6 |
| 21 | 45,900,000 | 46,050,000 | 613 | 753 | 0.24054677 | KIAA0391,PSMA6 |
| 21 | 45,975,000 | 46,125,000 | 614 | 597 | 0.666646218 | BIKBA,PSMA6 |
| 21 | 46,050,000 | 46,200,000 | 615 | 629 | 0.49841919 | BIKBA |
| 21 | 46,125,000 | 46,275,000 | 616 | 574 | 0.226432299 | GARNL1 |
| 21 | 46,200,000 | 46,350,000 | 617 | 380 | 0.788141394 | GARNL1 |
| 21 | 46,275,000 | 46,425,000 | 618 | 494 | 0.823621777 | GARNL1 |
| 21 | 46,350,000 | 46,500,000 | 619 | 458 | 0.613195918 | BRMS1L,GARNL1 |
| 21 | 46,425,000 | 46,575,000 | 620 | 388 | -0.342153522 | BRMS1L |
| 21 | 46,500,000 | 46,650,000 | 621 | 356 | -0.446119609 | |
| 21 | 46,575,000 | 46,725,000 | 622 | 459 | 0.589036801 | |
| 21 | 46,650,000 | 46,800,000 | 623 | 570 | 0.50252078 | |
| 21 | 46,725,000 | 46,875,000 | 624 | 631 | -0.390547949 | |
| 21 | 46,800,000 | 46,950,000 | 625 | 675 | -1.120614296 | MBIP |
| 21 | 46,875,000 | 47,025,000 | 626 | 735 | -0.187071616 | MBIP |
| 21 | 46,950,000 | 47,100,000 | 627 | 692 | 0.632980927 | |
| 21 | 47,025,000 | 47,175,000 | 628 | 440 | 0.906039656 | NKX2-1 |
| 21 | 47,100,000 | 47,250,000 | 629 | 342 | 0.724026794 | NKX2-1,NKX2-8 |
| 21 | 47,175,000 | 47,325,000 | 630 | 294 | 0.669445259 | NKX2-8,PAX9,SLC25A21 |
| 21 | 47,250,000 | 47,400,000 | 631 | 399 | 1.11341071 | PAX9,SLC25A21 |
| 21 | 47,325,000 | 47,475,000 | 632 | 537 | 0.877260651 | SLC25A21 |
| 21 | 47,400,000 | 47,550,000 | 633 | 333 | 0.151861691 | SLC25A21 |
| 21 | 47,475,000 | 47,625,000 | 634 | 248 | -0.408893391 | SLC25A21 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 47,550,000 | 47,700,000 | 635 | 460 | -0.005622819 | SLC25A21 |
| 21 | 47,625,000 | 47,775,000 | 636 | 743 | -1.472137225 | SLC25A21 |
| 21 | 47,700,000 | 47,850,000 | 637 | 956 | -2.17614689 | SLC25A21 |
| 21 | 47,775,000 | 47,925,000 | 638 | 1127 | -1.368364741 | MIPOL1,SLC25A21 |
| 21 | 47,850,000 | 48,000,000 | 639 | 910 | -0.408899289 | MIPOL1 |
| 21 | 47,925,000 | 48,075,000 | 640 | 828 | -1.056536035 | MIPOL1 |
| 21 | 48,000,000 | 48,150,000 | 641 | 873 | -1.170521752 | MIPOL1 |
| 21 | 48,075,000 | 48,225,000 | 642 | 622 | -0.294190693 | FOXA1,MIPOL1 |
| 21 | 48,150,000 | 48,300,000 | 643 | 492 | -0.310758472 | FOXA1,MIPOL1 |
| 21 | 48,225,000 | 48,375,000 | 644 | 615 | 0.054890733 | |
| 21 | 48,300,000 | 48,450,000 | 645 | 707 | 0.565980002 | TTC6 |
| 21 | 48,375,000 | 48,525,000 | 646 | 641 | 0.236786024 | TTC6 |
| 21 | 48,450,000 | 48,600,000 | 647 | 995 | 0.624496262 | |
| 21 | 48,525,000 | 48,675,000 | 648 | 1026 | 0.977901056 | |
| 21 | 48,600,000 | 48,750,000 | 649 | 864 | 0.033693446 | |
| 21 | 48,675,000 | 48,825,000 | 650 | 833 | -0.190791365 | SSTR1 |
| 21 | 48,750,000 | 48,900,000 | 651 | 662 | 0.268945272 | CLEC14A,SSTR1 |
| 21 | 48,825,000 | 48,975,000 | 652 | 601 | 0.353657806 | CLEC14A |
| 21 | 48,900,000 | 49,050,000 | 653 | 858 | 1.071035604 | |
| 21 | 48,975,000 | 49,125,000 | 654 | 1121 | 0.962971198 | |
| 21 | 49,050,000 | 49,200,000 | 655 | 1290 | 0.004966053 | |
| 21 | 49,125,000 | 49,275,000 | 656 | 994 | -0.397489266 | |
| 21 | 49,200,000 | 49,350,000 | 657 | 878 | 0.93986456 | |
| 21 | 49,275,000 | 49,425,000 | 658 | 1197 | 0.498242597 | |
| 21 | 49,350,000 | 49,500,000 | 659 | 1001 | -0.129127135 | SEC23A |
| 21 | 49,425,000 | 49,575,000 | 660 | 635 | 0.481308338 | GEMIN2,SEC23A,ENSBTAG00000048042 |
| 21 | 49,500,000 | 49,650,000 | 661 | 758 | -0.220332414 | GEMIN2,PNN,SEC23A,TRAPPC6B,ENSBTAG00000045986,E NSBTAG00000048042 |
| 21 | 49,575,000 | 49,725,000 | 662 | 791 | -1.068531321 | GEMIN2,PNN,TRAPPC6B,ENSBTAG0000006819,ENSBTAG 00000045986 |
| 21 | 49,650,000 | 49,800,000 | 663 | 643 | -0.993160877 | FBXO33,ENSBTAG0000006819 |
| 21 | 49,725,000 | 49,875,000 | 664 | 570 | 0.746859113 | FBXO33,ENSBTAG0000006819 |
| 21 | 49,800,000 | 49,950,000 | 665 | 869 | 1.158405618 | |
| 21 | 49,875,000 | 50,025,000 | 666 | 1532 | 0.941490822 | |
| 21 | 49,950,000 | 50,100,000 | 667 | 1590 | 0.436019555 | |
| 21 | 50,025,000 | 50,175,000 | 668 | 1188 | -0.021808337 | |
| 21 | 50,100,000 | 50,250,000 | 669 | 896 | -0.066386692 | |
| 21 | 50,175,000 | 50,325,000 | 670 | 897 | 0.502252081 | ODC1 |
| 21 | 50,250,000 | 50,400,000 | 671 | 1218 | 0.35159313 | ODC1,ENSBTAG0000009980 |
| 21 | 50,325,000 | 50,475,000 | 672 | 1058 | -0.283043908 | ENSBTAG0000009980 |
| 21 | 50,400,000 | 50,550,000 | 673 | 844 | -0.484267832 | |
| 21 | 50,475,000 | 50,625,000 | 674 | 1147 | -0.080465472 | |
| 21 | 50,550,000 | 50,700,000 | 675 | 963 | 0.659243511 | |
| 21 | 50,625,000 | 50,775,000 | 676 | 670 | 1.059324017 | |
| 21 | 50,700,000 | 50,850,000 | 677 | 591 | 1.012005703 | |
| 21 | 50,775,000 | 50,925,000 | 678 | 571 | 0.747983497 | |
| 21 | 50,850,000 | 51,000,000 | 679 | 613 | 0.337786951 | |
| 21 | 50,925,000 | 51,075,000 | 680 | 787 | -1.089246205 | |
| 21 | 51,000,000 | 51,150,000 | 681 | 1103 | -0.004334549 | |
| 21 | 51,075,000 | 51,225,000 | 682 | 1403 | 0.658621931 | |
| 21 | 51,150,000 | 51,300,000 | 683 | 1494 | 0.331693859 | |
| 21 | 51,225,000 | 51,375,000 | 684 | 1054 | 0.066273872 | |
| 21 | 51,300,000 | 51,450,000 | 685 | 797 | 0.306378348 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 51,375,000 | 51,525,000 | 686 | 792 | 0.255051638 | |
| 21 | 51,450,000 | 51,600,000 | 687 | 787 | 0.532106872 | |
| 21 | 51,525,000 | 51,675,000 | 688 | 697 | 0.770859103 | |
| 21 | 51,600,000 | 51,750,000 | 689 | 1030 | 0.747382465 | |
| 21 | 51,675,000 | 51,825,000 | 690 | 1110 | 0.77444223 | LRFN5 |
| 21 | 51,750,000 | 51,900,000 | 691 | 529 | 0.442936328 | LRFN5 |
| 21 | 51,825,000 | 51,975,000 | 692 | 418 | 0.138984042 | LRFN5 |
| 21 | 51,900,000 | 52,050,000 | 693 | 509 | 0.781102003 | LRFN5 |
| 21 | 51,975,000 | 52,125,000 | 694 | 1112 | 1.099806978 | LRFN5 |
| 21 | 52,050,000 | 52,200,000 | 695 | 1744 | 0.926653648 | LRFN5 |
| 21 | 52,125,000 | 52,275,000 | 696 | 1533 | 0.790625832 | |
| 21 | 52,200,000 | 52,350,000 | 697 | 1099 | 0.423791578 | |
| 21 | 52,275,000 | 52,425,000 | 698 | 1093 | -0.305299516 | |
| 21 | 52,350,000 | 52,500,000 | 699 | 982 | -0.085438715 | |
| 21 | 52,425,000 | 52,575,000 | 700 | 770 | 0.174032372 | |
| 21 | 52,500,000 | 52,650,000 | 701 | 681 | 0.144202622 | |
| 21 | 52,575,000 | 52,725,000 | 702 | 510 | 0.302461564 | |
| 21 | 52,650,000 | 52,800,000 | 703 | 495 | -0.789584198 | |
| 21 | 52,725,000 | 52,875,000 | 704 | 899 | 0.285968856 | |
| 21 | 52,800,000 | 52,950,000 | 705 | 1036 | 0.482665316 | |
| 21 | 52,875,000 | 53,025,000 | 706 | 1398 | 0.655969823 | |
| 21 | 52,950,000 | 53,100,000 | 707 | 1599 | 0.98309024 | |
| 21 | 53,025,000 | 53,175,000 | 708 | 1055 | 0.7124706 | |
| 21 | 53,100,000 | 53,250,000 | 709 | 596 | 0.096497007 | |
| 21 | 53,175,000 | 53,325,000 | 710 | 614 | -0.364305186 | ENSBTAG00000047710 |
| 21 | 53,250,000 | 53,400,000 | 711 | 633 | -0.358997916 | ENSBTAG00000047710 |
| 21 | 53,325,000 | 53,475,000 | 712 | 385 | 0.298003593 | |
| 21 | 53,400,000 | 53,550,000 | 713 | 283 | 0.704990454 | |
| 21 | 53,475,000 | 53,625,000 | 714 | 511 | 0.686697901 | |
| 21 | 53,550,000 | 53,700,000 | 715 | 1342 | 0.337650973 | |
| 21 | 53,625,000 | 53,775,000 | 716 | 1986 | 0.459101169 | |
| 21 | 53,700,000 | 53,850,000 | 717 | 1781 | 0.461145107 | |
| 21 | 53,775,000 | 53,925,000 | 718 | 923 | -0.38429391 | |
| 21 | 53,850,000 | 54,000,000 | 719 | 420 | -0.68129578 | |
| 21 | 53,925,000 | 54,075,000 | 720 | 588 | 0.995703323 | |
| 21 | 54,000,000 | 54,150,000 | 721 | 499 | 0.855188011 | |
| 21 | 54,075,000 | 54,225,000 | 722 | 720 | 1.033635063 | ENSBTAG00000047240 |
| 21 | 54,150,000 | 54,300,000 | 723 | 1293 | 1.042360588 | ENSBTAG00000047240 |
| 21 | 54,225,000 | 54,375,000 | 724 | 1251 | 0.714532854 | |
| 21 | 54,300,000 | 54,450,000 | 725 | 1209 | -0.247538822 | |
| 21 | 54,375,000 | 54,525,000 | 726 | 1145 | -0.421061733 | |
| 21 | 54,450,000 | 54,600,000 | 727 | 915 | 0.415641834 | |
| 21 | 54,525,000 | 54,675,000 | 728 | 808 | 0.438222343 | |
| 21 | 54,600,000 | 54,750,000 | 729 | 630 | 0.593542104 | FSCB |
| 21 | 54,675,000 | 54,825,000 | 730 | 607 | 0.670129519 | FSCB |
| 21 | 54,750,000 | 54,900,000 | 731 | 536 | 0.77670994 | FSCB |
| 21 | 54,825,000 | 54,975,000 | 732 | 469 | 0.850249866 | |
| 21 | 54,900,000 | 55,050,000 | 733 | 668 | 0.566870529 | |
| 21 | 54,975,000 | 55,125,000 | 734 | 930 | -0.062625353 | |
| 21 | 55,050,000 | 55,200,000 | 735 | 931 | -0.017698807 | C14orf28,KLHL28 |
| 21 | 55,125,000 | 55,275,000 | 736 | 726 | 0.588414094 | C14orf28,FAM179B,KLHL28 |
| 21 | 55,200,000 | 55,350,000 | 737 | 711 | -0.001739834 | FAM179B,FKBP3,KLHL28,PRPF39,ENSBTAG00000047002 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 55,275,000 | 55,425,000 | 738 | 867 | -0.492085641 | FAM179B,FANCM,FKBP3,MIS18BP1,PRPF39,ENSBTAG00000047002 |
| 21 | 55,350,000 | 55,500,000 | 739 | 913 | 0.014163461 | FANCM,MIS18BP1,ENSBTAG00000047002 |
| 21 | 55,425,000 | 55,575,000 | 740 | 994 | 0.555368122 | MIS18BP1,TGM5,TGM7 |
| 21 | 55,500,000 | 55,650,000 | 741 | 1016 | 0.851300505 | ADAL,LCMT2,RPL17,TGM5,TGM7,TUBGCP4,ZSCAN29 |
| 21 | 55,575,000 | 55,725,000 | 742 | 790 | 0.751580015 | ADAL,LCMT2,RPL17,TGM7,TP53BP1,TUBGCP4,ZSCAN29 |
| 21 | 55,650,000 | 55,800,000 | 743 | 661 | 0.094437222 | TP53BP1,TUBGCP4 |
| 21 | 55,725,000 | 55,875,000 | 744 | 577 | 0.317454681 | MAP1A,PPIP5K1,TP53BP1 |
| 21 | 55,800,000 | 55,950,000 | 745 | 436 | 0.889946277 | CATSPER2,CKMT1,ELL3,MAP1A,PDIA3,PPIP5K1,STRC |
| 21 | 55,875,000 | 56,025,000 | 746 | 586 | 0.105245435 | C21H15orf63,CATSPER2,CKMT1,ELL3,MFAP1,PDIA3,SERINC4,STRC,WDR76,ENSBTAG00000047694 |
| 21 | 55,950,000 | 56,100,000 | 747 | 910 | -0.382955718 | C21H15orf63,ELL3,FRMD5,MFAP1,SERINC4,WDR76,ENSBTAG00000047694 |
| 21 | 56,025,000 | 56,175,000 | 748 | 1024 | -0.076176533 | FRMD5,WDR76 |
| 21 | 56,100,000 | 56,250,000 | 749 | 873 | 0.808555828 | |
| 21 | 56,175,000 | 56,325,000 | 750 | 687 | 0.997436369 | |
| 21 | 56,250,000 | 56,400,000 | 751 | 831 | 0.321615906 | |
| 21 | 56,325,000 | 56,475,000 | 752 | 1111 | 0.425880866 | |
| 21 | 56,400,000 | 56,550,000 | 753 | 1134 | 0.433326595 | C14orf159 |
| 21 | 56,475,000 | 56,625,000 | 754 | 836 | -0.343424501 | C14orf159,GPR68 |
| 21 | 56,550,000 | 56,700,000 | 755 | 903 | -1.055337475 | C14orf159,CCDC88C,GPR68 |
| 21 | 56,625,000 | 56,775,000 | 756 | 953 | -0.446284222 | CCDC88C |
| 21 | 56,700,000 | 56,850,000 | 757 | 601 | 0.532378582 | CCDC88C,SMEK1 |
| 21 | 56,775,000 | 56,925,000 | 758 | 564 | 0.754902119 | CATSPERB,SMEK1,UTP14A |
| 21 | 56,850,000 | 57,000,000 | 759 | 687 | 0.890138325 | CATSPERB,UTP14A |
| 21 | 56,925,000 | 57,075,000 | 760 | 592 | 0.488455556 | CATSPERB |
| 21 | 57,000,000 | 57,150,000 | 761 | 448 | 0.033906554 | CATSPERB,TC2N |
| 21 | 57,075,000 | 57,225,000 | 762 | 457 | 0.464376868 | FBLN5,TC2N |
| 21 | 57,150,000 | 57,300,000 | 763 | 679 | 0.831711173 | FBLN5 |
| 21 | 57,225,000 | 57,375,000 | 764 | 731 | 0.99057797 | ATXN3,FBLN5,TRIP11 |
| 21 | 57,300,000 | 57,450,000 | 765 | 656 | 0.81965724 | ATXN3,CPSF2,NDUFB1,TRIP11 |
| 21 | 57,375,000 | 57,525,000 | 766 | 1174 | 0.841442218 | ATXN3,CPSF2,NDUFB1 |
| 21 | 57,450,000 | 57,600,000 | 767 | 1494 | 0.668306499 | SLC24A4 |
| 21 | 57,525,000 | 57,675,000 | 768 | 1434 | 0.57940544 | SLC24A4 |
| 21 | 57,600,000 | 57,750,000 | 769 | 1225 | 0.885498477 | SLC24A4 |
| 21 | 57,675,000 | 57,825,000 | 770 | 881 | 0.832308002 | SLC24A4 |
| 21 | 57,750,000 | 57,900,000 | 771 | 668 | 0.85969121 | RIN3,SLC24A4 |
| 21 | 57,825,000 | 57,975,000 | 772 | 459 | 0.853068017 | LGMN,RIN3 |
| 21 | 57,900,000 | 58,050,000 | 773 | 598 | 0.275129916 | LGMN,RIN3 |
| 21 | 57,975,000 | 58,125,000 | 774 | 1103 | 1.211481181 | GOLGA5,LGMN |
| 21 | 58,050,000 | 58,200,000 | 775 | 1116 | 1.362599856 | CHGA,GOLGA5,ITPK1 |
| 21 | 58,125,000 | 58,275,000 | 776 | 827 | 0.075206643 | CHGA,ITPK1 |
| 21 | 58,200,000 | 58,350,000 | 777 | 502 | -1.405053717 | ITPK1 |
| 21 | 58,275,000 | 58,425,000 | 778 | 254 | -0.352584908 | C21H14orf142,ITPK1,TMEM251,UBR7 |
| 21 | 58,350,000 | 58,500,000 | 779 | 324 | 0.188130285 | BTBD7,C21H14orf142,TMEM251,UBR7 |
| 21 | 58,425,000 | 58,575,000 | 780 | 381 | 0.77100667 | BTBD7,UBR7 |
| 21 | 58,500,000 | 58,650,000 | 781 | 699 | 0.496427713 | BTBD7 |
| 21 | 58,575,000 | 58,725,000 | 782 | 987 | -0.103144495 | UNC79 |
| 21 | 58,650,000 | 58,800,000 | 783 | 726 | 0.065000949 | UNC79 |
| 21 | 58,725,000 | 58,875,000 | 784 | 422 | 1.009935798 | UNC79 |
| 21 | 58,800,000 | 58,950,000 | 785 | 445 | 0.83372848 | PRIMA1,UNC79 |
| 21 | 58,875,000 | 59,025,000 | 786 | 801 | 0.487648992 | PRIMA1,UNC79 |
| 21 | 58,950,000 | 59,100,000 | 787 | 1122 | 0.239967389 | PRIMA1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 59,025,000 | 59,175,000 | 788 | 1106 | -0.46820818 | ASB2,FAM181A |
| 21 | 59,100,000 | 59,250,000 | 789 | 1581 | -0.700034231 | ASB2,FAM181A,OTUB2,ENSBTAG00000016112 |
| 21 | 59,175,000 | 59,325,000 | 790 | 1889 | -0.523633442 | DDX24,ISG12(B),OTUB2,ENSBTAG00000016112,ENSBTAG00000031834 |
| 21 | 59,250,000 | 59,400,000 | 791 | 1231 | -0.830798496 | DDX24,IFI27,IFI27L2,ISG12(B),OTUB2,PPP4R4,ENSBTAG000031834 |
| 21 | 59,325,000 | 59,475,000 | 792 | 610 | -1.302963058 | IFI27,IFI27L2,PPP4R4 |
| 21 | 59,400,000 | 59,550,000 | 793 | 566 | -0.910928059 | PPP4R4,SERPINA10,SERPINA6 |
| 21 | 59,475,000 | 59,625,000 | 794 | 624 | -0.144194189 | PPP4R4,SERPINA1,SERPINA10,SERPINA6 |
| 21 | 59,550,000 | 59,700,000 | 795 | 916 | -0.063649904 | SERPINA1,SERPINA11,ENSBTAG00000007392 |
| 21 | 59,625,000 | 59,775,000 | 796 | 938 | -0.097920038 | SERPINA11,SERPINA12,SERPINA4,ENSBTAG00000007392 |
| 21 | 59,700,000 | 59,850,000 | 797 | 684 | -0.010579531 | SERPINA12,SERPINA3-1,SERPINA4,SERPINA5 |
| 21 | 59,775,000 | 59,925,000 | 798 | 615 | -0.017304568 | SERPINA3-1,SERPINA5 |
| 21 | 59,850,000 | 60,000,000 | 799 | 507 | 0.850924796 | |
| 21 | 59,925,000 | 60,075,000 | 800 | 383 | 0.997844187 | |
| 21 | 60,000,000 | 60,150,000 | 801 | 304 | 0.297563364 | |
| 21 | 60,075,000 | 60,225,000 | 802 | 474 | 0.446693437 | |
| 21 | 60,150,000 | 60,300,000 | 803 | 641 | 0.321156384 | |
| 21 | 60,225,000 | 60,375,000 | 804 | 798 | 0.304810673 | |
| 21 | 60,300,000 | 60,450,000 | 805 | 663 | 0.126477143 | |
| 21 | 60,375,000 | 60,525,000 | 806 | 358 | 0.124503358 | ERICH1 |
| 21 | 60,450,000 | 60,600,000 | 807 | 262 | 0.840388864 | ERICH1 |
| 21 | 60,525,000 | 60,675,000 | 808 | 176 | 0.759485462 | |
| 21 | 60,600,000 | 60,750,000 | 809 | 121 | 0.513012295 | |
| 21 | 60,675,000 | 60,825,000 | 810 | 119 | 0.282362958 | |
| 21 | 60,750,000 | 60,900,000 | 811 | 106 | -0.02306278 | ENSBTAG00000024311 |
| 21 | 60,825,000 | 60,975,000 | 812 | 408 | 0.668109092 | SERPINA3- 6,ENSBTAG00000007043,ENSBTAG00000024311,ENSBTAG00000026917 |
| 21 | 60,900,000 | 61,050,000 | 813 | 753 | 0.910905393 | SERPINA3- 6,ENSBTAG00000003492,ENSBTAG00000007041,ENSBTAG00000007043,ENSBTAG00000026917 |
| 21 | 60,975,000 | 61,125,000 | 814 | 1169 | 0.457238144 | ENSBTAG00000003492,ENSBTAG00000007041,ENSBTAG0000007043 |
| 21 | 61,050,000 | 61,200,000 | 815 | 993 | 0.305531874 | GSC |
| 21 | 61,125,000 | 61,275,000 | 816 | 771 | 0.558877209 | GSC |
| 21 | 61,200,000 | 61,350,000 | 817 | 1315 | -0.977901288 | |
| 21 | 61,275,000 | 61,425,000 | 818 | 1492 | -0.625801622 | |
| 21 | 61,350,000 | 61,500,000 | 819 | 1397 | 0.84062309 | |
| 21 | 61,425,000 | 61,575,000 | 820 | 1132 | 1.049573824 | DICER1 |
| 21 | 61,500,000 | 61,650,000 | 821 | 1220 | 1.0777274 | CLMN,DICER1 |
| 21 | 61,575,000 | 61,725,000 | 822 | 1282 | 0.951748138 | CLMN,ENSBTAG00000048094 |
| 21 | 61,650,000 | 61,800,000 | 823 | 856 | 0.937431261 | CLMN,ENSBTAG00000048094 |
| 21 | 61,725,000 | 61,875,000 | 824 | 947 | 0.775351142 | SYNE3 |
| 21 | 61,800,000 | 61,950,000 | 825 | 1551 | 0.864282779 | SYNE3 |
| 21 | 61,875,000 | 62,025,000 | 826 | 1426 | 0.603307258 | GLRX5,SYNE3 |
| 21 | 61,950,000 | 62,100,000 | 827 | 1213 | 0.440305938 | GLRX5,SYNE3,TCL1B |
| 21 | 62,025,000 | 62,175,000 | 828 | 1207 | 0.705259114 | TCL1A,TCL1B |
| 21 | 62,100,000 | 62,250,000 | 829 | 924 | 0.741983819 | TCL1A,TCL1B |
| 21 | 62,175,000 | 62,325,000 | 830 | 799 | 0.844920941 | |
| 21 | 62,250,000 | 62,400,000 | 831 | 851 | -1.271219168 | |
| 21 | 62,325,000 | 62,475,000 | 832 | 1015 | -0.95530165 | |
| 21 | 62,400,000 | 62,550,000 | 833 | 1229 | -0.679117266 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 21 | 62,475,000 | 62,625,000 | 834 | 1258 | -0.779152861 | |
| 21 | 62,550,000 | 62,700,000 | 835 | 1434 | 0.025802347 | |
| 21 | 62,625,000 | 62,775,000 | 836 | 1431 | -0.013662506 | BDKRB1,BDKRB2 |
| 21 | 62,700,000 | 62,850,000 | 837 | 955 | 0.735464995 | ATG2B,BDKRB1,BDKRB2 |
| 21 | 62,775,000 | 62,925,000 | 838 | 925 | 0.810072314 | AK7,ATG2B,GSKIP |
| 21 | 62,850,000 | 63,000,000 | 839 | 797 | 0.50133041 | AK7,ATG2B,GSKIP,PAPOLA |
| 21 | 62,925,000 | 63,075,000 | 840 | 494 | 0.596694942 | AK7,PAPOLA |
| 21 | 63,000,000 | 63,150,000 | 841 | 385 | 1.066251302 | PAPOLA |
| 21 | 63,075,000 | 63,225,000 | 842 | 368 | 0.37683346 | |
| 21 | 63,150,000 | 63,300,000 | 843 | 380 | -0.303747049 | VRK1 |
| 21 | 63,225,000 | 63,375,000 | 844 | 441 | -0.710335765 | VRK1 |
| 21 | 63,300,000 | 63,450,000 | 845 | 706 | 0.094701318 | VRK1 |
| 21 | 63,375,000 | 63,525,000 | 846 | 688 | 0.194662611 | |
| 21 | 63,450,000 | 63,600,000 | 847 | 709 | 0.223834708 | |
| 21 | 63,525,000 | 63,675,000 | 848 | 939 | 0.409263854 | |
| 21 | 63,600,000 | 63,750,000 | 849 | 845 | 0.138389591 | |
| 21 | 63,675,000 | 63,825,000 | 850 | 731 | -0.094501273 | |
| 21 | 63,750,000 | 63,900,000 | 851 | 542 | 0.175386336 | |
| 21 | 63,825,000 | 63,975,000 | 852 | 498 | 0.542752084 | |
| 21 | 63,900,000 | 64,050,000 | 853 | 858 | -0.166129524 | |
| 21 | 63,975,000 | 64,125,000 | 854 | 993 | 0.381429907 | |
| 21 | 64,050,000 | 64,200,000 | 855 | 1079 | 0.895165041 | |
| 21 | 64,125,000 | 64,275,000 | 856 | 1102 | 0.472518724 | |
| 21 | 64,200,000 | 64,350,000 | 857 | 1010 | 0.522224662 | |
| 21 | 64,275,000 | 64,425,000 | 858 | 1000 | 0.286714728 | |
| 21 | 64,350,000 | 64,500,000 | 859 | 838 | -0.086040348 | |
| 21 | 64,425,000 | 64,575,000 | 860 | 904 | 0.098068253 | |
| 21 | 64,500,000 | 64,650,000 | 861 | 741 | -0.485794474 | |
| 21 | 64,575,000 | 64,725,000 | 862 | 337 | -0.73571735 | |
| 21 | 64,650,000 | 64,800,000 | 863 | 540 | 1.085665816 | |
| 21 | 64,725,000 | 64,875,000 | 864 | 772 | 1.183774185 | |
| 21 | 64,800,000 | 64,950,000 | 865 | 575 | 0.939883248 | |
| 21 | 64,875,000 | 65,025,000 | 866 | 343 | 0.821212747 | |
| 21 | 64,950,000 | 65,100,000 | 867 | 388 | 0.004300302 | |
| 21 | 65,025,000 | 65,175,000 | 868 | 652 | 0.70785497 | |
| 21 | 65,100,000 | 65,250,000 | 869 | 863 | 0.917662252 | |
| 21 | 65,175,000 | 65,325,000 | 870 | 882 | 0.723214392 | |
| 21 | 65,250,000 | 65,400,000 | 871 | 865 | 0.674405411 | |
| 21 | 65,325,000 | 65,475,000 | 872 | 691 | 0.513034261 | |
| 21 | 65,400,000 | 65,550,000 | 873 | 604 | 0.630707813 | |
| 21 | 65,475,000 | 65,625,000 | 874 | 636 | 0.714498629 | |
| 21 | 65,550,000 | 65,700,000 | 875 | 669 | 0.47351487 | |
| 21 | 65,625,000 | 65,775,000 | 876 | 665 | 0.502426395 | |
| 21 | 65,700,000 | 65,850,000 | 877 | 514 | 0.904940751 | BCL11B |
| 21 | 65,775,000 | 65,925,000 | 878 | 435 | 1.100024808 | BCL11B |
| 21 | 65,850,000 | 66,000,000 | 879 | 632 | 0.301254518 | BCL11B |
| 21 | 65,925,000 | 66,075,000 | 880 | 840 | 0.38155201 | BCL11B,SETD3 |
| 21 | 66,000,000 | 66,150,000 | 881 | 773 | 0.942549266 | SETD3 |
| 21 | 66,075,000 | 66,225,000 | 882 | 923 | 1.287299683 | CCDC85C,CCNK,SETD3 |
| 21 | 66,150,000 | 66,300,000 | 883 | 990 | 0.766310881 | CCDC85C,CCNK,HHIPL1 |
| 21 | 66,225,000 | 66,375,000 | 884 | 1175 | 0.601454314 | CCDC85C,CYP46A1,EMAPL,HHIPL1 |
| 21 | 66,300,000 | 66,450,000 | 885 | 1213 | 0.864987653 | CYP46A1,EMAPL,HHIPL1 |
| 21 | 66,375,000 | 66,525,000 | 886 | 988 | 0.787531033 | EMAPL |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 66,450,000 | 66,600,000 | 887 | 838 | -0.415414119 | EMAPL |
| 21 | 66,525,000 | 66,675,000 | 888 | 495 | -2.152625818 | EMAPL |
| 21 | 66,600,000 | 66,750,000 | 889 | 454 | -1.89269855 | DEGS2,EVL |
| 21 | 66,675,000 | 66,825,000 | 890 | 899 | -0.158128757 | DEGS2,EVL,YY1,ENSBTAG00000045497 |
| 21 | 66,750,000 | 66,900,000 | 891 | 1054 | 0.439016161 | DEGS2,SLC25A29,SLC25A47,WARS,YY1,ENSBTAG00000045497 |
| 21 | 66,825,000 | 66,975,000 | 892 | 1098 | 0.226674952 | SLC25A29,SLC25A47,WARS,WDR25,YY1 |
| 21 | 66,900,000 | 67,050,000 | 893 | 1254 | 0.247647636 | WARS,WDR25 |
| 21 | 66,975,000 | 67,125,000 | 894 | 784 | 0.059615413 | BEGAIN,WDR25 |
| 21 | 67,050,000 | 67,200,000 | 895 | 716 | -0.384106152 | BEGAIN,WDR25 |
| 21 | 67,125,000 | 67,275,000 | 896 | 690 | -0.324178681 | DLK |
| 21 | 67,200,000 | 67,350,000 | 897 | 326 | 0.136769623 | DLK |
| 21 | 67,275,000 | 67,425,000 | 898 | 396 | 0.681454311 | DLK |
| 21 | 67,350,000 | 67,500,000 | 899 | 419 | 0.737465396 | RTL1 |
| 21 | 67,425,000 | 67,575,000 | 900 | 499 | 0.434889584 | RTL1 |
| 21 | 67,500,000 | 67,650,000 | 901 | 497 | 0.01722001 | |
| 21 | 67,575,000 | 67,725,000 | 902 | 837 | 0.541517996 | |
| 21 | 67,650,000 | 67,800,000 | 903 | 1184 | 0.83805783 | |
| 21 | 67,725,000 | 67,875,000 | 904 | 1125 | 0.738080073 | |
| 21 | 67,800,000 | 67,950,000 | 905 | 1065 | 0.761035547 | |
| 21 | 67,875,000 | 68,025,000 | 906 | 680 | 0.867129863 | |
| 21 | 67,950,000 | 68,100,000 | 907 | 457 | 1.050414711 | |
| 21 | 68,025,000 | 68,175,000 | 908 | 617 | 1.248316875 | DIO3 |
| 21 | 68,100,000 | 68,250,000 | 909 | 557 | 1.03324311 | DIO3 |
| 21 | 68,175,000 | 68,325,000 | 910 | 533 | 0.484228387 | |
| 21 | 68,250,000 | 68,400,000 | 911 | 696 | -0.64414098 | PPP2R5C |
| 21 | 68,325,000 | 68,475,000 | 912 | 472 | -1.228336982 | PPP2R5C |
| 21 | 68,400,000 | 68,550,000 | 913 | 173 | 0.298256781 | DYNC1H1,PPP2R5C |
| 21 | 68,475,000 | 68,625,000 | 914 | 369 | 1.300475377 | DYNC1H1,HSP90AA1,MGC152337 |
| 21 | 68,550,000 | 68,700,000 | 915 | 680 | 1.066532611 | DYNC1H1,HSP90AA1,MGC152337,WDR20 |
| 21 | 68,625,000 | 68,775,000 | 916 | 833 | -0.129021067 | MOK,RPL9,WDR20 |
| 21 | 68,700,000 | 68,850,000 | 917 | 606 | -0.565842609 | CINP,MOK,RPL9,TECPR2,ZNF839 |
| 21 | 68,775,000 | 68,925,000 | 918 | 342 | 0.216395623 | ANKRD9,CINP,TECPR2,ZNF839 |
| 21 | 68,850,000 | 69,000,000 | 919 | 388 | 0.360667099 | ANKRD9,RCOR1,TECPR2 |
| 21 | 68,925,000 | 69,075,000 | 920 | 526 | 0.852821404 | RCOR1 |
| 21 | 69,000,000 | 69,150,000 | 921 | 772 | 1.227341548 | RCOR1 |
| 21 | 69,075,000 | 69,225,000 | 922 | 940 | 1.148688265 | RCOR1 |
| 21 | 69,150,000 | 69,300,000 | 923 | 801 | 0.966025336 | AMN,CDC42BPB,TRAF3 |
| 21 | 69,225,000 | 69,375,000 | 924 | 507 | 0.089237419 | AMN,CDC42BPB,TRAF3 |
| 21 | 69,300,000 | 69,450,000 | 925 | 801 | 0.388072272 | CDC42BPB,EXOC3L4 |
| 21 | 69,375,000 | 69,525,000 | 926 | 1296 | 0.235370557 | EXOC3L4,TNFAIP2 |
| 21 | 69,450,000 | 69,600,000 | 927 | 972 | -0.213485762 | TNFAIP2,ENSBTAG00000047319 |
| 21 | 69,525,000 | 69,675,000 | 928 | 536 | -0.879319241 | EIF5,ENSBTAG00000047319 |
| 21 | 69,600,000 | 69,750,000 | 929 | 403 | -0.322770475 | EIF5,MARK3 |
| 21 | 69,675,000 | 69,825,000 | 930 | 304 | 0.838764899 | CKB,MARK3,TRMT61A |
| 21 | 69,750,000 | 69,900,000 | 931 | 656 | 0.825459609 | APOPT1,BAG5,CKB,KLC1,MARK3,TRMT61A |
| 21 | 69,825,000 | 69,975,000 | 932 | 779 | 0.981822728 | APOPT1,BAG5,KLC1,XRCC3 |
| 21 | 69,900,000 | 70,050,000 | 933 | 512 | -0.256463088 | KLC1,PPP1R13B,XRCC3,ZFYVE21 |
| 21 | 69,975,000 | 70,125,000 | 934 | 609 | -0.735668244 | MP68,PPP1R13B,TDRD9,ZFYVE21,ENSBTAG00000046186 |
| 21 | 70,050,000 | 70,200,000 | 935 | 1022 | -0.523443529 | MP68,PPP1R13B,RD3L,TDRD9,ENSBTAG00000046186 |
| 21 | 70,125,000 | 70,275,000 | 936 | 1084 | -0.54135463 | ASPG,RD3L,TDRD9 |
| 21 | 70,200,000 | 70,350,000 | 937 | 937 | 0.067408107 | ASPG,KIF26A,TDRD9 |
| 21 | 70,275,000 | 70,425,000 | 938 | 1248 | 0.363411981 | ASPG,KIF26A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 70,350,000 | 70,500,000 | 939 | 1615 | -0.287604626 | KIF26A |
| 21 | 70,425,000 | 70,575,000 | 940 | 1485 | -2.278984654 | |
| 21 | 70,500,000 | 70,650,000 | 941 | 876 | -3.093743181 | |
| 21 | 70,575,000 | 70,725,000 | 942 | 815 | -0.464793434 | C14orf180,TMEM179 |
| 21 | 70,650,000 | 70,800,000 | 943 | 928 | -1.022087301 | C14orf180,TMEM179 |
| 21 | 70,725,000 | 70,875,000 | 944 | 644 | -1.616112329 | ADSSL1,INF2,SIVA1,TMEM179 |
| 21 | 70,800,000 | 70,950,000 | 945 | 452 | -1.486254967 | ADSSL1,AKT1,CEP170B,INF2,SIVA1,ZBTB42 |
| 21 | 70,875,000 | 71,025,000 | 946 | 343 | -1.780421778 | AHNAK2,AKT1,CEP170B,PLD4,ZBTB42 |
| 21 | 70,950,000 | 71,100,000 | 947 | 337 | -0.582575306 | AHNAK2,C14orf79,CDCA4,CEP170B,GPR132,PLD4 |
| 21 | 71,025,000 | 71,175,000 | 948 | 288 | 0.114742185 | C14orf79,CDCA4,GPR132,JAG2,NUDT14 |
| 21 | 71,100,000 | 71,250,000 | 949 | 405 | -0.200268239 | BRF1,BTBD6,JAG2,NUDT14,ENSBTAG00000046364 |
| 21 | 71,175,000 | 71,325,000 | 950 | 520 | 0.092578724 | BRF1,BTBD6,PACS2,ENSBTAG00000046364 |
| 21 | 71,250,000 | 71,400,000 | 951 | 575 | -0.270757672 | C14orf80,CRIP1,MTA1,PACS2,ENSBTAG00000046364 |
| 21 | 71,325,000 | 71,475,000 | 952 | 1003 | -0.803997364 | C14orf80,CRIP1,IGHE,MTA1,TMEM121,ENSBTAG00000046364,ENSBTAG00000047700,ENSBTAG00000047970 |
| 21 | 71,400,000 | 71,550,000 | 953 | 1318 | -0.035228575 | IGHE,IGHM,TMEM121,ENSBTAG00000046161,ENSBTAG00000047700,ENSBTAG00000047970,ENSBTAG00000048268 |
| 21 | 71,475,000 | 71,599,096 | 954 | 947 | 0.400849831 | IGHM,ENSBTAG00000046076,ENSBTAG00000046161,ENSBTAG00000048268 |
| 22 | 0 | 150,000 | 1 | 465 | 0.409753851 | ENSBTAG00000023954,ENSBTAG00000045666,ENSBTAG00000046011,ENSBTAG00000046634 |
| 22 | 75,000 | 225,000 | 2 | 716 | -3.424612 | MRPS24,URGCP,ENSBTAG00000023954 |
| 22 | 150,000 | 300,000 | 3 | 908 | -2.94171461 | MRPS24,URGCP |
| 22 | 225,000 | 375,000 | 4 | 749 | -0.338241091 | DBNL,PGAM2,UBE2D4,URGCP |
| 22 | 300,000 | 450,000 | 5 | 843 | -0.07580422 | DBNL,PGAM2,UBE2D4 |
| 22 | 375,000 | 525,000 | 6 | 971 | 0.361273884 | VOPP1 |
| 22 | 450,000 | 600,000 | 7 | 942 | -0.279590988 | VOPP1 |
| 22 | 525,000 | 675,000 | 8 | 1002 | -0.385080949 | VOPP1 |
| 22 | 600,000 | 750,000 | 9 | 1126 | 0.100962492 | LANCL2,VOPP1 |
| 22 | 675,000 | 825,000 | 10 | 1230 | -0.057075215 | LANCL2,VOPP1 |
| 22 | 750,000 | 900,000 | 11 | 1231 | -0.307451091 | EGFR,LANCL2 |
| 22 | 825,000 | 975,000 | 12 | 1044 | -0.155460462 | EGFR |
| 22 | 900,000 | 1,050,000 | 13 | 713 | 0.373618216 | EGFR |
| 22 | 975,000 | 1,125,000 | 14 | 431 | 0.600749513 | EGFR |
| 22 | 1,050,000 | 1,200,000 | 15 | 348 | 0.29638694 | EGFR |
| 22 | 1,125,000 | 1,275,000 | 16 | 799 | -0.202307391 | |
| 22 | 1,200,000 | 1,350,000 | 17 | 1016 | -0.086986201 | |
| 22 | 1,275,000 | 1,425,000 | 18 | 1104 | 0.403109149 | |
| 22 | 1,350,000 | 1,500,000 | 19 | 1349 | 0.212774508 | NEK10,SEC61G |
| 22 | 1,425,000 | 1,575,000 | 20 | 1091 | 0.114021973 | NEK10,SEC61G |
| 22 | 1,500,000 | 1,650,000 | 21 | 954 | 0.794997007 | NEK10 |
| 22 | 1,575,000 | 1,725,000 | 22 | 953 | -0.002284967 | NEK10 |
| 22 | 1,650,000 | 1,800,000 | 23 | 704 | -2.222241943 | NEK10,SLC4A7 |
| 22 | 1,725,000 | 1,875,000 | 24 | 412 | -2.613161999 | SLC4A7 |
| 22 | 1,800,000 | 1,950,000 | 25 | 548 | 0.78646444 | SLC4A7,ENSBTAG00000030494 |
| 22 | 1,875,000 | 2,025,000 | 26 | 600 | 0.670640365 | SLC4A7,ENSBTAG00000030494 |
| 22 | 1,950,000 | 2,100,000 | 27 | 543 | -1.812532096 | |
| 22 | 2,025,000 | 2,175,000 | 28 | 526 | -1.591054278 | EOMES |
| 22 | 2,100,000 | 2,250,000 | 29 | 468 | 0.104624655 | EOMES |
| 22 | 2,175,000 | 2,325,000 | 30 | 468 | -0.321557299 | |
| 22 | 2,250,000 | 2,400,000 | 31 | 316 | -0.205193285 | |
| 22 | 2,325,000 | 2,475,000 | 32 | 436 | 0.137564481 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|------------------|
| 22 | 2,400,000 | 2,550,000 | 33 | 630 | -0.151866522 | |
| 22 | 2,475,000 | 2,625,000 | 34 | 1059 | -0.962181422 | |
| 22 | 2,550,000 | 2,700,000 | 35 | 1225 | -1.341366896 | CMC1 |
| 22 | 2,625,000 | 2,775,000 | 36 | 765 | -1.271099116 | AZI2,CMC1 |
| 22 | 2,700,000 | 2,850,000 | 37 | 504 | -0.464756205 | AZI2,CMC1,ZCWPW2 |
| 22 | 2,775,000 | 2,925,000 | 38 | 510 | -0.055124373 | AZI2,ZCWPW2 |
| 22 | 2,850,000 | 3,000,000 | 39 | 649 | 0.060375775 | ZCWPW2 |
| 22 | 2,925,000 | 3,075,000 | 40 | 791 | 0.132403127 | ZCWPW2 |
| 22 | 3,000,000 | 3,150,000 | 41 | 715 | 0.566763428 | |
| 22 | 3,075,000 | 3,225,000 | 42 | 723 | 0.907290729 | |
| 22 | 3,150,000 | 3,300,000 | 43 | 1021 | 0.870755562 | |
| 22 | 3,225,000 | 3,375,000 | 44 | 939 | 0.660775586 | |
| 22 | 3,300,000 | 3,450,000 | 45 | 642 | 0.602441544 | |
| 22 | 3,375,000 | 3,525,000 | 46 | 808 | 1.079332993 | |
| 22 | 3,450,000 | 3,600,000 | 47 | 1105 | 0.862148268 | |
| 22 | 3,525,000 | 3,675,000 | 48 | 1045 | 0.600724105 | |
| 22 | 3,600,000 | 3,750,000 | 49 | 838 | 0.136574422 | |
| 22 | 3,675,000 | 3,825,000 | 50 | 747 | 0.049269252 | |
| 22 | 3,750,000 | 3,900,000 | 51 | 737 | 0.154851695 | RBMS3 |
| 22 | 3,825,000 | 3,975,000 | 52 | 667 | -0.643589133 | RBMS3 |
| 22 | 3,900,000 | 4,050,000 | 53 | 631 | -1.045986463 | RBMS3 |
| 22 | 3,975,000 | 4,125,000 | 54 | 586 | -0.21298352 | RBMS3 |
| 22 | 4,050,000 | 4,200,000 | 55 | 680 | 1.08040344 | RBMS3 |
| 22 | 4,125,000 | 4,275,000 | 56 | 676 | 0.896983919 | RBMS3 |
| 22 | 4,200,000 | 4,350,000 | 57 | 548 | 0.586295116 | RBMS3 |
| 22 | 4,275,000 | 4,425,000 | 58 | 791 | 1.067830306 | RBMS3 |
| 22 | 4,350,000 | 4,500,000 | 59 | 1031 | 1.186376426 | RBMS3 |
| 22 | 4,425,000 | 4,575,000 | 60 | 700 | 0.981649122 | RBMS3 |
| 22 | 4,500,000 | 4,650,000 | 61 | 489 | 0.376773859 | RBMS3 |
| 22 | 4,575,000 | 4,725,000 | 62 | 748 | 0.252732641 | RBMS3 |
| 22 | 4,650,000 | 4,800,000 | 63 | 1142 | 0.881992828 | RBMS3 |
| 22 | 4,725,000 | 4,875,000 | 64 | 1307 | 1.119876017 | |
| 22 | 4,800,000 | 4,950,000 | 65 | 1055 | -0.160649388 | |
| 22 | 4,875,000 | 5,025,000 | 66 | 1112 | -0.755748495 | |
| 22 | 4,950,000 | 5,100,000 | 67 | 894 | -0.181111715 | |
| 22 | 5,025,000 | 5,175,000 | 68 | 518 | -0.250895087 | TGFBR2 |
| 22 | 5,100,000 | 5,250,000 | 69 | 619 | -0.282711335 | TGFBR2 |
| 22 | 5,175,000 | 5,325,000 | 70 | 855 | -0.066287621 | GADL1,TGFBR2 |
| 22 | 5,250,000 | 5,400,000 | 71 | 961 | -0.049958871 | GADL1 |
| 22 | 5,325,000 | 5,475,000 | 72 | 672 | -0.638446275 | GADL1 |
| 22 | 5,400,000 | 5,550,000 | 73 | 565 | -0.36239912 | GADL1 |
| 22 | 5,475,000 | 5,625,000 | 74 | 1047 | 0.280811096 | |
| 22 | 5,550,000 | 5,700,000 | 75 | 1220 | 0.451001253 | |
| 22 | 5,625,000 | 5,775,000 | 76 | 1271 | 0.450326344 | |
| 22 | 5,700,000 | 5,850,000 | 77 | 1129 | 0.128327188 | |
| 22 | 5,775,000 | 5,925,000 | 78 | 816 | 0.139895461 | |
| 22 | 5,850,000 | 6,000,000 | 79 | 1017 | 0.9695023 | |
| 22 | 5,925,000 | 6,075,000 | 80 | 1271 | 0.815610595 | |
| 22 | 6,000,000 | 6,150,000 | 81 | 935 | 0.633190859 | STT3B |
| 22 | 6,075,000 | 6,225,000 | 82 | 663 | 1.079233724 | OSBPL10,STT3B |
| 22 | 6,150,000 | 6,300,000 | 83 | 969 | 0.82447562 | OSBPL10,STT3B |
| 22 | 6,225,000 | 6,375,000 | 84 | 1027 | 0.28201552 | OSBPL10 |
| 22 | 6,300,000 | 6,450,000 | 85 | 964 | 0.051102107 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 6,375,000 | 6,525,000 | 86 | 1102 | 0.051064991 | |
| 22 | 6,450,000 | 6,600,000 | 87 | 1048 | -0.246094259 | |
| 22 | 6,525,000 | 6,675,000 | 88 | 1085 | -0.512328582 | GPD1L |
| 22 | 6,600,000 | 6,750,000 | 89 | 1227 | 0.330336731 | GPD1L |
| 22 | 6,675,000 | 6,825,000 | 90 | 1382 | 1.286459264 | CMTM8,GPD1L |
| 22 | 6,750,000 | 6,900,000 | 91 | 1415 | 0.953959345 | CMTM7,CMTM8 |
| 22 | 6,825,000 | 6,975,000 | 92 | 1135 | 0.524677594 | CMTM7,CMTM8 |
| 22 | 6,900,000 | 7,050,000 | 93 | 1225 | 0.758015424 | CMTM6,CMTM7,DYNC1LI1 |
| 22 | 6,975,000 | 7,125,000 | 94 | 1343 | 0.980474509 | CMTM6,DYNC1LI1,ENSBTAG00000025595 |
| 22 | 7,050,000 | 7,200,000 | 95 | 1214 | 1.218077276 | CNOT10,DYNC1LI1,ENSBTAG00000025595 |
| 22 | 7,125,000 | 7,275,000 | 96 | 1202 | 1.133634075 | CNOT10 |
| 22 | 7,200,000 | 7,350,000 | 97 | 1112 | 0.980487223 | CNOT10,TRIM71 |
| 22 | 7,275,000 | 7,425,000 | 98 | 1100 | 0.481460374 | CCR4,GLB1,TRIM71 |
| 22 | 7,350,000 | 7,500,000 | 99 | 994 | 0.249924183 | CCR4,GLB1 |
| 22 | 7,425,000 | 7,575,000 | 100 | 1110 | 0.567183203 | CRTAP,GLB1,SUSD5,ENSBTAG00000034871 |
| 22 | 7,500,000 | 7,650,000 | 101 | 1285 | -0.789433596 | CRTAP,FBXL2,GLB1,SUSD5,ENSBTAG00000034871 |
| 22 | 7,575,000 | 7,725,000 | 102 | 1117 | -0.906155228 | FBXL2,SUSD5,UBP1 |
| 22 | 7,650,000 | 7,800,000 | 103 | 861 | 0.950521346 | FBXL2,UBP1 |
| 22 | 7,725,000 | 7,875,000 | 104 | 445 | 1.176665256 | CLASP2,UBP1 |
| 22 | 7,800,000 | 7,950,000 | 105 | 311 | 0.552887311 | CLASP2 |
| 22 | 7,875,000 | 8,025,000 | 106 | 462 | -1.367065397 | CLASP2 |
| 22 | 7,950,000 | 8,100,000 | 107 | 893 | -0.77187651 | CLASP2,PDCD6IP |
| 22 | 8,025,000 | 8,175,000 | 108 | 951 | 0.026292756 | PDCD6IP |
| 22 | 8,100,000 | 8,250,000 | 109 | 1062 | 0.457772655 | PDCD6IP |
| 22 | 8,175,000 | 8,325,000 | 110 | 1372 | 0.401310715 | |
| 22 | 8,250,000 | 8,400,000 | 111 | 1137 | 0.64168555 | |
| 22 | 8,325,000 | 8,475,000 | 112 | 1134 | 0.958025633 | |
| 22 | 8,400,000 | 8,550,000 | 113 | 1016 | 0.578247404 | |
| 22 | 8,475,000 | 8,625,000 | 114 | 715 | -0.834823305 | |
| 22 | 8,550,000 | 8,700,000 | 115 | 689 | -0.540463027 | |
| 22 | 8,625,000 | 8,775,000 | 116 | 598 | 0.220565012 | |
| 22 | 8,700,000 | 8,850,000 | 117 | 765 | 0.348994348 | |
| 22 | 8,775,000 | 8,925,000 | 118 | 1357 | 0.49883042 | |
| 22 | 8,850,000 | 9,000,000 | 119 | 1270 | 0.554062081 | |
| 22 | 8,925,000 | 9,075,000 | 120 | 890 | 0.441275187 | |
| 22 | 9,000,000 | 9,150,000 | 121 | 899 | 0.289579147 | |
| 22 | 9,075,000 | 9,225,000 | 122 | 860 | 0.362455613 | |
| 22 | 9,150,000 | 9,300,000 | 123 | 634 | 0.154657143 | |
| 22 | 9,225,000 | 9,375,000 | 124 | 506 | 0.122368797 | |
| 22 | 9,300,000 | 9,450,000 | 125 | 628 | 0.681391547 | |
| 22 | 9,375,000 | 9,525,000 | 126 | 622 | 0.12365307 | |
| 22 | 9,450,000 | 9,600,000 | 127 | 776 | -0.298257517 | |
| 22 | 9,525,000 | 9,675,000 | 128 | 664 | -0.077476208 | ARPP21 |
| 22 | 9,600,000 | 9,750,000 | 129 | 532 | -0.025207174 | ARPP21 |
| 22 | 9,675,000 | 9,825,000 | 130 | 801 | 0.219788349 | ARPP21 |
| 22 | 9,750,000 | 9,900,000 | 131 | 867 | 0.268844369 | ARPP21 |
| 22 | 9,825,000 | 9,975,000 | 132 | 676 | 0.634334637 | |
| 22 | 9,900,000 | 10,050,000 | 133 | 452 | 0.79152068 | |
| 22 | 9,975,000 | 10,125,000 | 134 | 849 | 0.399383831 | |
| 22 | 10,050,000 | 10,200,000 | 135 | 1059 | 0.492383325 | STAC |
| 22 | 10,125,000 | 10,275,000 | 136 | 989 | 0.651280767 | STAC |
| 22 | 10,200,000 | 10,350,000 | 137 | 1091 | -0.512696962 | STAC |
| 22 | 10,275,000 | 10,425,000 | 138 | 590 | -2.758026759 | LRRFIP2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 10,350,000 | 10,500,000 | 139 | 243 | 0.350778831 | LRRFIP2,MLH1 |
| 22 | 10,425,000 | 10,575,000 | 140 | 317 | 0.419708756 | LRRFIP2,MLH1 |
| 22 | 10,500,000 | 10,650,000 | 141 | 514 | -1.122807606 | EPM2AIP1,MLH1 |
| 22 | 10,575,000 | 10,725,000 | 142 | 608 | -1.101147339 | EPM2AIP1,MLH1,TRANK1 |
| 22 | 10,650,000 | 10,800,000 | 143 | 394 | -0.530659529 | DCLK3,TRANK1 |
| 22 | 10,725,000 | 10,875,000 | 144 | 150 | -1.207677911 | DCLK3,GOLGA4 |
| 22 | 10,800,000 | 10,950,000 | 145 | 75 | 0.960355883 | GOLGA4,ITGA9 |
| 22 | 10,875,000 | 11,025,000 | 146 | 405 | 0.964348588 | GOLGA4,ITGA9 |
| 22 | 10,950,000 | 11,100,000 | 147 | 691 | 1.003747395 | ITGA9 |
| 22 | 11,025,000 | 11,175,000 | 148 | 694 | 0.843219056 | ITGA9,ENSBTAG00000047965 |
| 22 | 11,100,000 | 11,250,000 | 149 | 851 | 0.879891513 | ITGA9,ENSBTAG00000047965 |
| 22 | 11,175,000 | 11,325,000 | 150 | 886 | 0.740141045 | ITGA9 |
| 22 | 11,250,000 | 11,400,000 | 151 | 645 | 0.478312933 | CTDSPL,ITGA9 |
| 22 | 11,325,000 | 11,475,000 | 152 | 535 | 0.74657895 | CTDSPL |
| 22 | 11,400,000 | 11,550,000 | 153 | 820 | 0.973676598 | CTDSPL,DLEC1,PLCD1,VILL |
| 22 | 11,475,000 | 11,625,000 | 154 | 752 | 1.024096347 | ACAA1,DLEC1,PLCD1,VILL |
| 22 | 11,550,000 | 11,700,000 | 155 | 403 | 0.423130759 | ACAA1,DLEC1,MYD88,OXSR1 |
| 22 | 11,625,000 | 11,775,000 | 156 | 368 | 0.252448459 | ACAA1,MYD88,OXSR1,SLC22A13 |
| 22 | 11,700,000 | 11,850,000 | 157 | 460 | 0.603467227 | OXSR1,SLC22A13,SLC22A14,XVLB |
| 22 | 11,775,000 | 11,925,000 | 158 | 548 | 0.776029578 | ACVR2B,EXO,SLC22A14,XVLB |
| 22 | 11,850,000 | 12,000,000 | 159 | 642 | -0.96207733 | ACVR2B,EXO |
| 22 | 11,925,000 | 12,075,000 | 160 | 874 | -0.872270767 | EXO,SCN5A |
| 22 | 12,000,000 | 12,150,000 | 161 | 817 | 0.08509163 | SCN10A,SCN5A |
| 22 | 12,075,000 | 12,225,000 | 162 | 687 | 0.360504611 | SCN10A,SCN5A |
| 22 | 12,150,000 | 12,300,000 | 163 | 697 | 0.031094887 | SCN10A,SCN11A |
| 22 | 12,225,000 | 12,375,000 | 164 | 828 | 0.043921465 | SCN10A,SCN11A |
| 22 | 12,300,000 | 12,450,000 | 165 | 799 | 0.30195505 | SCN11A,WDR48 |
| 22 | 12,375,000 | 12,525,000 | 166 | 448 | 0.519293382 | CSRNP1,GORASP1,TTC21A,WDR48 |
| 22 | 12,450,000 | 12,600,000 | 167 | 357 | 1.097209642 | CMYA1,CSRNP1,GORASP1,TTC21A,WDR48 |
| 22 | 12,525,000 | 12,675,000 | 168 | 448 | 1.199928466 | CMYA1,CSRNP1,CX3CR1 |
| 22 | 12,600,000 | 12,750,000 | 169 | 522 | 1.091998709 | CCR8,CX3CR1,RPSA,SLC25A38,ENSBTAG0000009760,ENSBTAG00000015493 |
| 22 | 12,675,000 | 12,825,000 | 170 | 441 | -0.059308733 | CCR8,MOBP,RPSA,SLC25A38,ENSBTAG0000009760,ENSBTAG00000015493 |
| 22 | 12,750,000 | 12,900,000 | 171 | 610 | -0.483623025 | MOBP |
| 22 | 12,825,000 | 12,975,000 | 172 | 828 | -0.027899155 | |
| 22 | 12,900,000 | 13,050,000 | 173 | 642 | -0.202527561 | |
| 22 | 12,975,000 | 13,125,000 | 174 | 659 | 0.339573543 | MYRIP |
| 22 | 13,050,000 | 13,200,000 | 175 | 549 | 0.049089169 | MYRIP |
| 22 | 13,125,000 | 13,275,000 | 176 | 298 | 0.065040524 | EIF1B,ENTPD3,MYRIP |
| 22 | 13,200,000 | 13,350,000 | 177 | 288 | 0.692587087 | EIF1B,ENTPD3,RPL14,ENSBTAG00000018057 |
| 22 | 13,275,000 | 13,425,000 | 178 | 298 | 0.681445921 | ENTPD3,RPL14,ENSBTAG00000018057 |
| 22 | 13,350,000 | 13,500,000 | 179 | 321 | 0.621226046 | ENSBTAG00000018057 |
| 22 | 13,425,000 | 13,575,000 | 180 | 640 | 0.523357243 | |
| 22 | 13,500,000 | 13,650,000 | 181 | 843 | 0.441437967 | |
| 22 | 13,575,000 | 13,725,000 | 182 | 637 | 0.043350999 | |
| 22 | 13,650,000 | 13,800,000 | 183 | 581 | -1.059105238 | |
| 22 | 13,725,000 | 13,875,000 | 184 | 466 | -1.293303397 | CTNNB1 |
| 22 | 13,800,000 | 13,950,000 | 185 | 287 | -0.885690678 | CTNNB1 |
| 22 | 13,875,000 | 14,025,000 | 186 | 698 | -1.601928161 | CTNNB1 |
| 22 | 13,950,000 | 14,100,000 | 187 | 1110 | -0.494312183 | |
| 22 | 14,025,000 | 14,175,000 | 188 | 1026 | 0.134036085 | |
| 22 | 14,100,000 | 14,250,000 | 189 | 824 | 0.161472574 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 14,175,000 | 14,325,000 | 190 | 800 | 0.625276021 | |
| 22 | 14,250,000 | 14,400,000 | 191 | 723 | 1.017518118 | |
| 22 | 14,325,000 | 14,475,000 | 192 | 451 | 0.70568475 | ABHD5 |
| 22 | 14,400,000 | 14,550,000 | 193 | 492 | -0.420787349 | ABHD5 |
| 22 | 14,475,000 | 14,625,000 | 194 | 526 | 0.21389269 | ABHD5 |
| 22 | 14,550,000 | 14,700,000 | 195 | 531 | 0.72918492 | |
| 22 | 14,625,000 | 14,775,000 | 196 | 626 | 0.847649382 | |
| 22 | 14,700,000 | 14,850,000 | 197 | 612 | 1.067959006 | |
| 22 | 14,775,000 | 14,925,000 | 198 | 494 | 0.985775636 | |
| 22 | 14,850,000 | 15,000,000 | 199 | 428 | 0.98032723 | |
| 22 | 14,925,000 | 15,075,000 | 200 | 856 | 0.572227512 | |
| 22 | 15,000,000 | 15,150,000 | 201 | 872 | 0.22274471 | TRAK1 |
| 22 | 15,075,000 | 15,225,000 | 202 | 483 | 0.174861892 | CCK,TRAK1,ENSBTAG00000047883 |
| 22 | 15,150,000 | 15,300,000 | 203 | 398 | 0.283103659 | CCK,LYZL4,TRAK1,VIPR1,ENSBTAG00000047883 |
| 22 | 15,225,000 | 15,375,000 | 204 | 354 | 0.405071729 | LYZL4,NKTR,SEC22C,VIPR1 |
| 22 | 15,300,000 | 15,450,000 | 205 | 313 | 0.125831563 | KBTBD5,NKTR,SEC22C,VIPR1,ZBTB47 |
| 22 | 15,375,000 | 15,525,000 | 206 | 303 | 0.589570885 | CCDC13,HHATL,HIGD1D,KBTBD5,NKTR,ZBTB47 |
| 22 | 15,450,000 | 15,600,000 | 207 | 477 | 0.794853918 | CCBP2,CCDC13,CYP8B1,HHATL,HIGD1D,KBTBD5 |
| 22 | 15,525,000 | 15,675,000 | 208 | 611 | 0.624244965 | CCBP2,CYP8B1 |
| 22 | 15,600,000 | 15,750,000 | 209 | 607 | 0.518354993 | POMGNT2 |
| 22 | 15,675,000 | 15,825,000 | 210 | 393 | 0.47294098 | POMGNT2 |
| 22 | 15,750,000 | 15,900,000 | 211 | 431 | 0.425879135 | SNRK,ENSBTAG00000008244 |
| 22 | 15,825,000 | 15,975,000 | 212 | 519 | 0.644384223 | ANO10,SNRK,ENSBTAG00000008244 |
| 22 | 15,900,000 | 16,050,000 | 213 | 414 | 1.1314995 | ANO10,SNRK |
| 22 | 15,975,000 | 16,125,000 | 214 | 431 | 0.738678461 | ANO10 |
| 22 | 16,050,000 | 16,200,000 | 215 | 311 | 0.196723606 | ANO10 |
| 22 | 16,125,000 | 16,275,000 | 216 | 371 | 0.795366913 | ANO10,TOPAZ1 |
| 22 | 16,200,000 | 16,350,000 | 217 | 501 | -0.290840243 | TCAIM,TOPAZ1 |
| 22 | 16,275,000 | 16,425,000 | 218 | 777 | -0.279397761 | TCAIM,TOPAZ1,ZNF445,ZNF852,ENSBTAG00000030533 |
| 22 | 16,350,000 | 16,500,000 | 219 | 666 | -0.232727351 | ZNF197,ZNF35,ZNF445,ZNF852,ENSBTAG00000030533 |
| 22 | 16,425,000 | 16,575,000 | 220 | 511 | -0.336769429 | KIAA1143,KIF15,ZNF197,ZNF35,ZNF502,ZNF852 |
| 22 | 16,500,000 | 16,650,000 | 221 | 1072 | -0.37842635 | KIAA1143,KIF15,ZNF35,ZNF502,ENSBTAG00000047611 |
| 22 | 16,575,000 | 16,725,000 | 222 | 1275 | -0.058946043 | IRAK2,KIF15,ENSBTAG00000019479,ENSBTAG00000047611 |
| 22 | 16,650,000 | 16,800,000 | 223 | 731 | 0.201668232 | C22H3ORF10,FANCD2,FANCD2OS,IRAK2,VHL,ENSBTAG0000019479 |
| 22 | 16,725,000 | 16,875,000 | 224 | 283 | -0.517956435 | C22H3ORF10,CRELD1,EMC3,FANCD2,FANCD2OS,IL17RC,IRAK2,PRRT3,VHL |
| 22 | 16,800,000 | 16,950,000 | 225 | 264 | -0.514753522 | CIDEC,CRELD1,EMC3,FANCD2,IL17RC,IL17RE,JAGN1,PRRT3,RPUSD3,ENSBTAG00000007966 |
| 22 | 16,875,000 | 17,025,000 | 226 | 241 | 0.262634287 | ARPC4,BRPF1,CAMK1,CIDEC,IL17RC,IL17RE,JAGN1,OGG1,RPUSD3,TADA3,ENSBTAG00000007966 |
| 22 | 16,950,000 | 17,100,000 | 227 | 241 | 1.204647426 | ARPC4,BRPF1,CAMK1,CPNE9,MTMR14,OGG1,TADA3,ENSBTAG00000007966 |
| 22 | 17,025,000 | 17,175,000 | 228 | 228 | 0.324078375 | CPNE9,LHFPL4,MTMR14 |
| 22 | 17,100,000 | 17,250,000 | 229 | 166 | -1.06606462 | LHFPL4,SETD5 |
| 22 | 17,175,000 | 17,325,000 | 230 | 133 | -1.163677906 | SETD5,THUMPD3 |
| 22 | 17,250,000 | 17,400,000 | 231 | 162 | -0.982582641 | SRGAP3,THUMPD3 |
| 22 | 17,325,000 | 17,475,000 | 232 | 183 | -0.301877003 | SRGAP3 |
| 22 | 17,400,000 | 17,550,000 | 233 | 327 | 0.023844464 | SRGAP3 |
| 22 | 17,475,000 | 17,625,000 | 234 | 454 | 0.017928271 | SRGAP3 |
| 22 | 17,550,000 | 17,700,000 | 235 | 383 | 0.074868973 | RAD18,SRGAP3 |
| 22 | 17,625,000 | 17,775,000 | 236 | 354 | 0.348360406 | RAD18 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------|
| 22 | 17,700,000 | 17,850,000 | 237 | 418 | 0.003967223 | CAV3,OXTR,RAD18 |
| 22 | 17,775,000 | 17,925,000 | 238 | 550 | -0.02086088 | CAV3,OXTR,SSUH2 |
| 22 | 17,850,000 | 18,000,000 | 239 | 671 | -0.727531241 | LMCD1,SSUH2 |
| 22 | 17,925,000 | 18,075,000 | 240 | 630 | -0.67387775 | LMCD1 |
| 22 | 18,000,000 | 18,150,000 | 241 | 738 | 0.308765368 | LMCD1 |
| 22 | 18,075,000 | 18,225,000 | 242 | 917 | 0.503459794 | |
| 22 | 18,150,000 | 18,300,000 | 243 | 898 | 0.508888064 | |
| 22 | 18,225,000 | 18,375,000 | 244 | 831 | -1.644392496 | |
| 22 | 18,300,000 | 18,450,000 | 245 | 886 | -2.258612601 | |
| 22 | 18,375,000 | 18,525,000 | 246 | 931 | -1.397481397 | |
| 22 | 18,450,000 | 18,600,000 | 247 | 1021 | -0.152921022 | |
| 22 | 18,525,000 | 18,675,000 | 248 | 867 | 0.619638328 | |
| 22 | 18,600,000 | 18,750,000 | 249 | 529 | 0.009695799 | GRM7 |
| 22 | 18,675,000 | 18,825,000 | 250 | 940 | -0.25179718 | GRM7 |
| 22 | 18,750,000 | 18,900,000 | 251 | 1442 | -0.417547662 | GRM7 |
| 22 | 18,825,000 | 18,975,000 | 252 | 1518 | -0.386033513 | GRM7 |
| 22 | 18,900,000 | 19,050,000 | 253 | 1305 | 0.262636028 | GRM7 |
| 22 | 18,975,000 | 19,125,000 | 254 | 911 | 0.953066192 | GRM7 |
| 22 | 19,050,000 | 19,200,000 | 255 | 632 | 0.847469018 | GRM7 |
| 22 | 19,125,000 | 19,275,000 | 256 | 587 | 0.785267213 | GRM7 |
| 22 | 19,200,000 | 19,350,000 | 257 | 1020 | 0.910923276 | GRM7 |
| 22 | 19,275,000 | 19,425,000 | 258 | 1066 | 0.149604586 | GRM7 |
| 22 | 19,350,000 | 19,500,000 | 259 | 997 | -0.162843413 | GRM7 |
| 22 | 19,425,000 | 19,575,000 | 260 | 1149 | 0.146885144 | GRM7 |
| 22 | 19,500,000 | 19,650,000 | 261 | 876 | -2.632333001 | GRM7 |
| 22 | 19,575,000 | 19,725,000 | 262 | 644 | -3.617456282 | GRM7 |
| 22 | 19,650,000 | 19,800,000 | 263 | 745 | 0.04311774 | |
| 22 | 19,725,000 | 19,875,000 | 264 | 1151 | 0.242025835 | |
| 22 | 19,800,000 | 19,950,000 | 265 | 1587 | -0.096462559 | |
| 22 | 19,875,000 | 20,025,000 | 266 | 1573 | 0.367955952 | |
| 22 | 19,950,000 | 20,100,000 | 267 | 1069 | 0.747891966 | |
| 22 | 20,025,000 | 20,175,000 | 268 | 728 | 0.186695639 | |
| 22 | 20,100,000 | 20,250,000 | 269 | 654 | 0.611877949 | |
| 22 | 20,175,000 | 20,325,000 | 270 | 518 | 0.777292854 | |
| 22 | 20,250,000 | 20,400,000 | 271 | 434 | 0.355123469 | |
| 22 | 20,325,000 | 20,475,000 | 272 | 628 | 0.686995036 | |
| 22 | 20,400,000 | 20,550,000 | 273 | 1050 | 0.983015602 | |
| 22 | 20,475,000 | 20,625,000 | 274 | 998 | 0.522579584 | |
| 22 | 20,550,000 | 20,700,000 | 275 | 547 | -0.573145202 | |
| 22 | 20,625,000 | 20,775,000 | 276 | 660 | -0.307398169 | |
| 22 | 20,700,000 | 20,850,000 | 277 | 693 | -1.024264122 | |
| 22 | 20,775,000 | 20,925,000 | 278 | 517 | -1.001842997 | |
| 22 | 20,850,000 | 21,000,000 | 279 | 527 | 0.536928847 | |
| 22 | 20,925,000 | 21,075,000 | 280 | 673 | 0.999124365 | |
| 22 | 21,000,000 | 21,150,000 | 281 | 1111 | 0.683035789 | |
| 22 | 21,075,000 | 21,225,000 | 282 | 1074 | -0.025113602 | |
| 22 | 21,150,000 | 21,300,000 | 283 | 653 | -1.89254854 | EDEM1 |
| 22 | 21,225,000 | 21,375,000 | 284 | 391 | -3.042939446 | ARL8B,EDEM1 |
| 22 | 21,300,000 | 21,450,000 | 285 | 411 | -2.396245089 | ARL8B |
| 22 | 21,375,000 | 21,525,000 | 286 | 423 | -1.688794712 | BHLHE40 |
| 22 | 21,450,000 | 21,600,000 | 287 | 281 | -0.13610148 | BHLHE40 |
| 22 | 21,525,000 | 21,675,000 | 288 | 543 | -0.07440919 | ITPR1 |
| 22 | 21,600,000 | 21,750,000 | 289 | 937 | -0.030374442 | ITPR1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------|
| 22 | 21,675,000 | 21,825,000 | 290 | 963 | 0.766265707 | ITPR1 |
| 22 | 21,750,000 | 21,900,000 | 291 | 774 | 1.151224284 | ITPR1 |
| 22 | 21,825,000 | 21,975,000 | 292 | 617 | 0.856373504 | ITPR1 |
| 22 | 21,900,000 | 22,050,000 | 293 | 659 | 1.134633248 | SUMF1 |
| 22 | 21,975,000 | 22,125,000 | 294 | 823 | 1.114576725 | SETMAR,SHFM1,SUMF1 |
| 22 | 22,050,000 | 22,200,000 | 295 | 1007 | 1.092444939 | SETMAR,SHFM1,SUMF1 |
| 22 | 22,125,000 | 22,275,000 | 296 | 782 | 0.915548343 | |
| 22 | 22,200,000 | 22,350,000 | 297 | 462 | 0.235858096 | |
| 22 | 22,275,000 | 22,425,000 | 298 | 740 | 0.58855975 | |
| 22 | 22,350,000 | 22,500,000 | 299 | 874 | 0.944436152 | |
| 22 | 22,425,000 | 22,575,000 | 300 | 787 | 1.222596733 | |
| 22 | 22,500,000 | 22,650,000 | 301 | 788 | 1.237724201 | LRRN1 |
| 22 | 22,575,000 | 22,725,000 | 302 | 725 | 0.328530414 | LRRN1 |
| 22 | 22,650,000 | 22,800,000 | 303 | 582 | -0.268363219 | |
| 22 | 22,725,000 | 22,875,000 | 304 | 719 | 0.028248994 | |
| 22 | 22,800,000 | 22,950,000 | 305 | 942 | -0.655956328 | |
| 22 | 22,875,000 | 23,025,000 | 306 | 1210 | -1.193350253 | |
| 22 | 22,950,000 | 23,100,000 | 307 | 1329 | -1.696111646 | |
| 22 | 23,025,000 | 23,175,000 | 308 | 930 | -1.58236873 | |
| 22 | 23,100,000 | 23,250,000 | 309 | 866 | -0.544892681 | CRBN |
| 22 | 23,175,000 | 23,325,000 | 310 | 859 | -1.340151771 | CRBN,IL5RA,TRNT1 |
| 22 | 23,250,000 | 23,400,000 | 311 | 840 | -0.203356381 | CNTN4,CRBN,IL5RA,TRNT1 |
| 22 | 23,325,000 | 23,475,000 | 312 | 1015 | 0.822451681 | CNTN4,IL5RA |
| 22 | 23,400,000 | 23,550,000 | 313 | 832 | 0.365622775 | CNTN4 |
| 22 | 23,475,000 | 23,625,000 | 314 | 832 | 0.84777128 | CNTN4 |
| 22 | 23,550,000 | 23,700,000 | 315 | 923 | 1.009187403 | CNTN4 |
| 22 | 23,625,000 | 23,775,000 | 316 | 971 | 0.893797352 | |
| 22 | 23,700,000 | 23,850,000 | 317 | 951 | 1.103228564 | |
| 22 | 23,775,000 | 23,925,000 | 318 | 793 | 0.525094696 | |
| 22 | 23,850,000 | 24,000,000 | 319 | 667 | 0.673741536 | |
| 22 | 23,925,000 | 24,075,000 | 320 | 757 | 1.00077838 | |
| 22 | 24,000,000 | 24,150,000 | 321 | 920 | 1.061212852 | |
| 22 | 24,075,000 | 24,225,000 | 322 | 764 | 0.536171026 | |
| 22 | 24,150,000 | 24,300,000 | 323 | 648 | -0.391638374 | |
| 22 | 24,225,000 | 24,375,000 | 324 | 569 | 0.195861801 | |
| 22 | 24,300,000 | 24,450,000 | 325 | 425 | 0.576756938 | |
| 22 | 24,375,000 | 24,525,000 | 326 | 588 | -0.622592912 | |
| 22 | 24,450,000 | 24,600,000 | 327 | 1005 | -1.425516341 | |
| 22 | 24,525,000 | 24,675,000 | 328 | 900 | -2.088070214 | |
| 22 | 24,600,000 | 24,750,000 | 329 | 649 | -0.645931086 | |
| 22 | 24,675,000 | 24,825,000 | 330 | 748 | 0.958573152 | |
| 22 | 24,750,000 | 24,900,000 | 331 | 744 | 0.797315158 | |
| 22 | 24,825,000 | 24,975,000 | 332 | 841 | -0.888726306 | |
| 22 | 24,900,000 | 25,050,000 | 333 | 873 | -0.758911732 | |
| 22 | 24,975,000 | 25,125,000 | 334 | 551 | 0.233153275 | CNTN6 |
| 22 | 25,050,000 | 25,200,000 | 335 | 550 | -0.691310585 | CNTN6 |
| 22 | 25,125,000 | 25,275,000 | 336 | 630 | -0.655748681 | CNTN6 |
| 22 | 25,200,000 | 25,350,000 | 337 | 891 | -2.196661007 | CNTN6 |
| 22 | 25,275,000 | 25,425,000 | 338 | 1054 | -1.47191785 | |
| 22 | 25,350,000 | 25,500,000 | 339 | 1126 | -0.63744038 | |
| 22 | 25,425,000 | 25,575,000 | 340 | 945 | -1.388235018 | |
| 22 | 25,500,000 | 25,650,000 | 341 | 645 | 0.100129756 | |
| 22 | 25,575,000 | 25,725,000 | 342 | 871 | 1.193255837 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------|
| 22 | 25,650,000 | 25,800,000 | 343 | 777 | 1.164360301 | |
| 22 | 25,725,000 | 25,875,000 | 344 | 519 | 0.812421378 | |
| 22 | 25,800,000 | 25,950,000 | 345 | 645 | 1.088120002 | |
| 22 | 25,875,000 | 26,025,000 | 346 | 672 | 0.762484609 | |
| 22 | 25,950,000 | 26,100,000 | 347 | 601 | 0.21313634 | |
| 22 | 26,025,000 | 26,175,000 | 348 | 644 | 0.347250485 | CHL1 |
| 22 | 26,100,000 | 26,250,000 | 349 | 537 | 0.276571156 | CHL1 |
| 22 | 26,175,000 | 26,325,000 | 350 | 664 | 0.536765828 | CHL1 |
| 22 | 26,250,000 | 26,400,000 | 351 | 786 | 0.796758013 | CHL1 |
| 22 | 26,325,000 | 26,475,000 | 352 | 686 | 0.303546973 | |
| 22 | 26,400,000 | 26,550,000 | 353 | 449 | -0.101022418 | |
| 22 | 26,475,000 | 26,625,000 | 354 | 232 | 0.671207107 | |
| 22 | 26,550,000 | 26,700,000 | 355 | 413 | 0.597980218 | |
| 22 | 26,625,000 | 26,775,000 | 356 | 863 | 0.904656085 | |
| 22 | 26,700,000 | 26,850,000 | 357 | 1090 | 1.069351845 | |
| 22 | 26,775,000 | 26,925,000 | 358 | 829 | 0.797065927 | |
| 22 | 26,850,000 | 27,000,000 | 359 | 524 | 0.124986732 | |
| 22 | 26,925,000 | 27,075,000 | 360 | 570 | -2.112011892 | |
| 22 | 27,000,000 | 27,150,000 | 361 | 641 | -3.459469526 | |
| 22 | 27,075,000 | 27,225,000 | 362 | 795 | -1.28352497 | |
| 22 | 27,150,000 | 27,300,000 | 363 | 948 | 0.240726863 | CNTN3 |
| 22 | 27,225,000 | 27,375,000 | 364 | 1194 | 0.712746896 | CNTN3 |
| 22 | 27,300,000 | 27,450,000 | 365 | 1410 | 0.668990532 | CNTN3 |
| 22 | 27,375,000 | 27,525,000 | 366 | 1176 | -0.039083809 | CNTN3 |
| 22 | 27,450,000 | 27,600,000 | 367 | 1298 | -0.552189831 | CNTN3 |
| 22 | 27,525,000 | 27,675,000 | 368 | 1622 | 0.572206804 | CNTN3 |
| 22 | 27,600,000 | 27,750,000 | 369 | 1241 | 0.680659482 | |
| 22 | 27,675,000 | 27,825,000 | 370 | 838 | -0.453001504 | |
| 22 | 27,750,000 | 27,900,000 | 371 | 1048 | -1.003565146 | |
| 22 | 27,825,000 | 27,975,000 | 372 | 1164 | -0.814088641 | |
| 22 | 27,900,000 | 28,050,000 | 373 | 1179 | 0.308573508 | |
| 22 | 27,975,000 | 28,125,000 | 374 | 1041 | 0.990965158 | |
| 22 | 28,050,000 | 28,200,000 | 375 | 965 | 0.951352823 | |
| 22 | 28,125,000 | 28,275,000 | 376 | 1037 | 1.174301531 | PDZRN3 |
| 22 | 28,200,000 | 28,350,000 | 377 | 1071 | 0.560898223 | PDZRN3 |
| 22 | 28,275,000 | 28,425,000 | 378 | 965 | 0.359180496 | PDZRN3 |
| 22 | 28,350,000 | 28,500,000 | 379 | 634 | 0.734906298 | PDZRN3 |
| 22 | 28,425,000 | 28,575,000 | 380 | 614 | 0.633746261 | PDZRN3 |
| 22 | 28,500,000 | 28,650,000 | 381 | 757 | 0.209481966 | PDZRN3 |
| 22 | 28,575,000 | 28,725,000 | 382 | 772 | 0.55113136 | |
| 22 | 28,650,000 | 28,800,000 | 383 | 563 | 1.223513908 | PPP4R2 |
| 22 | 28,725,000 | 28,875,000 | 384 | 371 | 1.15534199 | GXYLT2,PPP4R2 |
| 22 | 28,800,000 | 28,950,000 | 385 | 451 | 0.973217812 | GXYLT2,PPP4R2 |
| 22 | 28,875,000 | 29,025,000 | 386 | 490 | 0.960980461 | GXYLT2,SHQ1 |
| 22 | 28,950,000 | 29,100,000 | 387 | 316 | 1.092444558 | SHQ1 |
| 22 | 29,025,000 | 29,175,000 | 388 | 258 | 0.658445905 | SHQ1 |
| 22 | 29,100,000 | 29,250,000 | 389 | 344 | 0.629870502 | |
| 22 | 29,175,000 | 29,325,000 | 390 | 345 | 0.587469223 | RYBP |
| 22 | 29,250,000 | 29,400,000 | 391 | 319 | 0.369576742 | RYBP |
| 22 | 29,325,000 | 29,475,000 | 392 | 447 | -0.636356265 | RYBP |
| 22 | 29,400,000 | 29,550,000 | 393 | 725 | -0.11888908 | |
| 22 | 29,475,000 | 29,625,000 | 394 | 825 | 0.315071063 | |
| 22 | 29,550,000 | 29,700,000 | 395 | 703 | -0.397859903 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 22 | 29,625,000 | 29,775,000 | 396 | 558 | -0.334529674 | |
| 22 | 29,700,000 | 29,850,000 | 397 | 765 | -1.431482853 | |
| 22 | 29,775,000 | 29,925,000 | 398 | 977 | -0.978403756 | |
| 22 | 29,850,000 | 30,000,000 | 399 | 661 | -0.134570476 | |
| 22 | 29,925,000 | 30,075,000 | 400 | 381 | -0.599058528 | EIF4E3,PROK2 |
| 22 | 30,000,000 | 30,150,000 | 401 | 456 | -0.09080486 | EIF4E3,PROK2 |
| 22 | 30,075,000 | 30,225,000 | 402 | 474 | 0.375456257 | EIF4E3 |
| 22 | 30,150,000 | 30,300,000 | 403 | 380 | 0.639801006 | |
| 22 | 30,225,000 | 30,375,000 | 404 | 395 | 0.628670983 | |
| 22 | 30,300,000 | 30,450,000 | 405 | 320 | 0.318050502 | FOXP1 |
| 22 | 30,375,000 | 30,525,000 | 406 | 230 | -0.100144299 | FOXP1 |
| 22 | 30,450,000 | 30,600,000 | 407 | 309 | 0.617223656 | FOXP1 |
| 22 | 30,525,000 | 30,675,000 | 408 | 347 | 0.555825577 | FOXP1 |
| 22 | 30,600,000 | 30,750,000 | 409 | 354 | -3.119622557 | FOXP1 |
| 22 | 30,675,000 | 30,825,000 | 410 | 374 | -3.077077916 | FOXP1 |
| 22 | 30,750,000 | 30,900,000 | 411 | 316 | -0.095928121 | FOXP1 |
| 22 | 30,825,000 | 30,975,000 | 412 | 341 | -0.14354856 | |
| 22 | 30,900,000 | 31,050,000 | 413 | 383 | -1.301082722 | |
| 22 | 30,975,000 | 31,125,000 | 414 | 521 | -0.505817578 | |
| 22 | 31,050,000 | 31,200,000 | 415 | 637 | 0.697584916 | |
| 22 | 31,125,000 | 31,275,000 | 416 | 636 | 0.048478059 | |
| 22 | 31,200,000 | 31,350,000 | 417 | 921 | 0.351247166 | |
| 22 | 31,275,000 | 31,425,000 | 418 | 845 | 0.223309982 | |
| 22 | 31,350,000 | 31,500,000 | 419 | 526 | -1.075107886 | |
| 22 | 31,425,000 | 31,575,000 | 420 | 516 | 0.053813023 | ENSBTAG00000048050 |
| 22 | 31,500,000 | 31,650,000 | 421 | 459 | 0.433597658 | ENSBTAG00000048050 |
| 22 | 31,575,000 | 31,725,000 | 422 | 635 | -0.168274395 | |
| 22 | 31,650,000 | 31,800,000 | 423 | 666 | -0.227801737 | MITF |
| 22 | 31,725,000 | 31,875,000 | 424 | 458 | -0.255651895 | MITF |
| 22 | 31,800,000 | 31,950,000 | 425 | 429 | -1.539693524 | |
| 22 | 31,875,000 | 32,025,000 | 426 | 569 | -1.9451981 | |
| 22 | 31,950,000 | 32,100,000 | 427 | 607 | -0.366497694 | |
| 22 | 32,025,000 | 32,175,000 | 428 | 448 | 0.784085027 | |
| 22 | 32,100,000 | 32,250,000 | 429 | 717 | -0.197579236 | |
| 22 | 32,175,000 | 32,325,000 | 430 | 1140 | -0.540536475 | |
| 22 | 32,250,000 | 32,400,000 | 431 | 780 | -0.224036687 | FRMD4B |
| 22 | 32,325,000 | 32,475,000 | 432 | 297 | 1.150588589 | FRMD4B |
| 22 | 32,400,000 | 32,550,000 | 433 | 382 | 0.76188787 | FRMD4B,LMOD3 |
| 22 | 32,475,000 | 32,625,000 | 434 | 343 | 0.10632841 | ARL6IP5,FRMD4B,LMOD3,TMF1,UBA3 |
| 22 | 32,550,000 | 32,700,000 | 435 | 273 | -2.580806045 | ARL6IP5,EOGT,LMOD3,TMF1,UBA3 |
| 22 | 32,625,000 | 32,775,000 | 436 | 390 | -2.298662567 | EOGT,FAM19A4,TMF1 |
| 22 | 32,700,000 | 32,850,000 | 437 | 738 | -1.615035661 | FAM19A4 |
| 22 | 32,775,000 | 32,925,000 | 438 | 888 | -0.692220403 | FAM19A4 |
| 22 | 32,850,000 | 33,000,000 | 439 | 665 | 0.287548409 | FAM19A4 |
| 22 | 32,925,000 | 33,075,000 | 440 | 577 | -1.241272767 | FAM19A1 |
| 22 | 33,000,000 | 33,150,000 | 441 | 644 | -3.264497303 | FAM19A1 |
| 22 | 33,075,000 | 33,225,000 | 442 | 744 | -2.1037669 | FAM19A1 |
| 22 | 33,150,000 | 33,300,000 | 443 | 875 | 0.482200205 | FAM19A1 |
| 22 | 33,225,000 | 33,375,000 | 444 | 1111 | 0.323754561 | FAM19A1 |
| 22 | 33,300,000 | 33,450,000 | 445 | 1037 | -0.712239451 | FAM19A1 |
| 22 | 33,375,000 | 33,525,000 | 446 | 831 | -1.754968554 | FAM19A1 |
| 22 | 33,450,000 | 33,600,000 | 447 | 640 | -1.143288343 | FAM19A1 |
| 22 | 33,525,000 | 33,675,000 | 448 | 685 | -0.24916737 | FAM19A1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 33,600,000 | 33,750,000 | 449 | 642 | -0.012080521 | |
| 22 | 33,675,000 | 33,825,000 | 450 | 780 | 0.764449317 | |
| 22 | 33,750,000 | 33,900,000 | 451 | 1021 | 0.898105959 | |
| 22 | 33,825,000 | 33,975,000 | 452 | 762 | 1.21876224 | |
| 22 | 33,900,000 | 34,050,000 | 453 | 539 | 1.141012654 | SUCLG2 |
| 22 | 33,975,000 | 34,125,000 | 454 | 433 | 1.104657191 | SUCLG2 |
| 22 | 34,050,000 | 34,200,000 | 455 | 351 | 0.957909519 | SUCLG2 |
| 22 | 34,125,000 | 34,275,000 | 456 | 288 | 0.51771566 | SUCLG2 |
| 22 | 34,200,000 | 34,350,000 | 457 | 296 | 0.668138998 | SUCLG2 |
| 22 | 34,275,000 | 34,425,000 | 458 | 386 | -1.255894241 | |
| 22 | 34,350,000 | 34,500,000 | 459 | 458 | -1.925893482 | |
| 22 | 34,425,000 | 34,575,000 | 460 | 464 | -1.22227506 | |
| 22 | 34,500,000 | 34,650,000 | 461 | 593 | -1.301743239 | KBTD8 |
| 22 | 34,575,000 | 34,725,000 | 462 | 599 | -0.653843678 | KBTD8 |
| 22 | 34,650,000 | 34,800,000 | 463 | 404 | 0.127802348 | |
| 22 | 34,725,000 | 34,875,000 | 464 | 371 | -0.186864653 | |
| 22 | 34,800,000 | 34,950,000 | 465 | 551 | -1.093770894 | |
| 22 | 34,875,000 | 35,025,000 | 466 | 519 | -2.233810552 | |
| 22 | 34,950,000 | 35,100,000 | 467 | 408 | -1.151238152 | LRIG1,ENSBTAG00000046330,ENSBTAG00000047851 |
| 22 | 35,025,000 | 35,175,000 | 468 | 505 | 0.698985799 | LRIG1,ENSBTAG00000046330,ENSBTAG00000047851 |
| 22 | 35,100,000 | 35,250,000 | 469 | 485 | -0.124578425 | LRIG1,SLC25A26 |
| 22 | 35,175,000 | 35,325,000 | 470 | 322 | -2.17187774 | LRIG1,SLC25A26 |
| 22 | 35,250,000 | 35,400,000 | 471 | 525 | -0.325116392 | ATP5E,SLC25A26 |
| 22 | 35,325,000 | 35,475,000 | 472 | 716 | -0.61064443 | ATP5E,SLC25A26 |
| 22 | 35,400,000 | 35,550,000 | 473 | 731 | -0.815326681 | |
| 22 | 35,475,000 | 35,625,000 | 474 | 1055 | 0.497282722 | |
| 22 | 35,550,000 | 35,700,000 | 475 | 984 | 0.776038726 | |
| 22 | 35,625,000 | 35,775,000 | 476 | 577 | 0.40701264 | |
| 22 | 35,700,000 | 35,850,000 | 477 | 498 | 0.264019324 | |
| 22 | 35,775,000 | 35,925,000 | 478 | 415 | 0.284622317 | |
| 22 | 35,850,000 | 36,000,000 | 479 | 386 | 0.094101688 | |
| 22 | 35,925,000 | 36,075,000 | 480 | 472 | 0.22945585 | MAGI1 |
| 22 | 36,000,000 | 36,150,000 | 481 | 674 | 0.816405018 | MAGI1 |
| 22 | 36,075,000 | 36,225,000 | 482 | 1016 | 0.804483002 | MAGI1 |
| 22 | 36,150,000 | 36,300,000 | 483 | 1038 | 0.752121471 | |
| 22 | 36,225,000 | 36,375,000 | 484 | 978 | 0.914639919 | |
| 22 | 36,300,000 | 36,450,000 | 485 | 996 | 0.905012042 | |
| 22 | 36,375,000 | 36,525,000 | 486 | 825 | 0.620511037 | |
| 22 | 36,450,000 | 36,600,000 | 487 | 595 | 0.23998116 | |
| 22 | 36,525,000 | 36,675,000 | 488 | 414 | 0.347236452 | |
| 22 | 36,600,000 | 36,750,000 | 489 | 352 | 0.476273552 | ENSBTAG00000008534 |
| 22 | 36,675,000 | 36,825,000 | 490 | 392 | -0.558480182 | ENSBTAG00000008534 |
| 22 | 36,750,000 | 36,900,000 | 491 | 391 | -0.99434123 | ADAMTS9 |
| 22 | 36,825,000 | 36,975,000 | 492 | 316 | 0.059380756 | ADAMTS9 |
| 22 | 36,900,000 | 37,050,000 | 493 | 457 | -0.100523661 | ADAMTS9 |
| 22 | 36,975,000 | 37,125,000 | 494 | 645 | 0.089265866 | ADAMTS9 |
| 22 | 37,050,000 | 37,200,000 | 495 | 514 | 0.595654734 | |
| 22 | 37,125,000 | 37,275,000 | 496 | 586 | 0.479807374 | |
| 22 | 37,200,000 | 37,350,000 | 497 | 687 | -0.001821222 | PRICKLE2 |
| 22 | 37,275,000 | 37,425,000 | 498 | 743 | 0.173247727 | PRICKLE2 |
| 22 | 37,350,000 | 37,500,000 | 499 | 650 | 0.628149412 | PRICKLE2 |
| 22 | 37,425,000 | 37,575,000 | 500 | 589 | -0.569855304 | PRICKLE2,PSMD6 |
| 22 | 37,500,000 | 37,650,000 | 501 | 568 | -2.241479126 | ATXN7,PSMD6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 22 | 37,575,000 | 37,725,000 | 502 | 275 | -3.079512119 | ATXN7 |
| 22 | 37,650,000 | 37,800,000 | 503 | 659 | 0.387407156 | ATXN7,C3orf49,ENSBTAG00000032872 |
| 22 | 37,725,000 | 37,875,000 | 504 | 1100 | 0.107068455 | C3orf49,SNTN,ENSBTAG00000032872 |
| 22 | 37,800,000 | 37,950,000 | 505 | 877 | -0.179697529 | SNTN,SYNPR |
| 22 | 37,875,000 | 38,025,000 | 506 | 567 | 0.133887815 | SNTN,SYNPR |
| 22 | 37,950,000 | 38,100,000 | 507 | 479 | -0.368487204 | SYNPR |
| 22 | 38,025,000 | 38,175,000 | 508 | 502 | 0.085601985 | SYNPR |
| 22 | 38,100,000 | 38,250,000 | 509 | 546 | 0.24764258 | |
| 22 | 38,175,000 | 38,325,000 | 510 | 580 | 0.082485034 | |
| 22 | 38,250,000 | 38,400,000 | 511 | 439 | -0.167907184 | |
| 22 | 38,325,000 | 38,475,000 | 512 | 498 | -2.368005917 | |
| 22 | 38,400,000 | 38,550,000 | 513 | 707 | -1.095816698 | |
| 22 | 38,475,000 | 38,625,000 | 514 | 771 | 0.86941651 | |
| 22 | 38,550,000 | 38,700,000 | 515 | 870 | 0.537436594 | CADPS |
| 22 | 38,625,000 | 38,775,000 | 516 | 692 | 0.262879679 | CADPS |
| 22 | 38,700,000 | 38,850,000 | 517 | 793 | 0.713905051 | CADPS |
| 22 | 38,775,000 | 38,925,000 | 518 | 840 | 0.304813497 | CADPS |
| 22 | 38,850,000 | 39,000,000 | 519 | 483 | -0.470144366 | CADPS |
| 22 | 38,925,000 | 39,075,000 | 520 | 400 | 0.434551318 | CADPS,FEZF2 |
| 22 | 39,000,000 | 39,150,000 | 521 | 496 | 0.402008761 | C3orf14,CADPS,FEZF2 |
| 22 | 39,075,000 | 39,225,000 | 522 | 720 | 0.538388442 | C3orf14,PTPRG |
| 22 | 39,150,000 | 39,300,000 | 523 | 1096 | 0.402237521 | PTPRG |
| 22 | 39,225,000 | 39,375,000 | 524 | 981 | 0.541800724 | PTPRG |
| 22 | 39,300,000 | 39,450,000 | 525 | 880 | 0.145564455 | PTPRG |
| 22 | 39,375,000 | 39,525,000 | 526 | 892 | -0.340040212 | PTPRG |
| 22 | 39,450,000 | 39,600,000 | 527 | 578 | -0.254941397 | PTPRG |
| 22 | 39,525,000 | 39,675,000 | 528 | 712 | 0.194193393 | PTPRG |
| 22 | 39,600,000 | 39,750,000 | 529 | 895 | 0.566038032 | PTPRG |
| 22 | 39,675,000 | 39,825,000 | 530 | 474 | 0.577518373 | PTPRG |
| 22 | 39,750,000 | 39,900,000 | 531 | 42 | -6.473081823 | PTPRG |
| 22 | 39,825,000 | 39,975,000 | 532 | 177 | -0.120258035 | PTPRG |
| 22 | 39,900,000 | 40,050,000 | 533 | 273 | 0.005537108 | PTPRG |
| 22 | 39,975,000 | 40,125,000 | 534 | 374 | 0.376002255 | PTPRG |
| 22 | 40,050,000 | 40,200,000 | 535 | 687 | 1.072220676 | PTPRG |
| 22 | 40,125,000 | 40,275,000 | 536 | 965 | 0.784629356 | PTPRG |
| 22 | 40,200,000 | 40,350,000 | 537 | 1022 | 0.455090154 | PTPRG |
| 22 | 40,275,000 | 40,425,000 | 538 | 1082 | -0.419564297 | PTPRG |
| 22 | 40,350,000 | 40,500,000 | 539 | 1021 | -0.992678669 | PTPRG |
| 22 | 40,425,000 | 40,575,000 | 540 | 933 | 0.278878031 | |
| 22 | 40,500,000 | 40,650,000 | 541 | 1146 | -0.056565049 | |
| 22 | 40,575,000 | 40,725,000 | 542 | 1322 | -0.5731541 | |
| 22 | 40,650,000 | 40,800,000 | 543 | 1193 | -0.294399479 | |
| 22 | 40,725,000 | 40,875,000 | 544 | 992 | 0.514429387 | |
| 22 | 40,800,000 | 40,950,000 | 545 | 763 | 1.096750651 | |
| 22 | 40,875,000 | 41,025,000 | 546 | 450 | 1.10690372 | |
| 22 | 40,950,000 | 41,100,000 | 547 | 572 | 1.219761588 | |
| 22 | 41,025,000 | 41,175,000 | 548 | 703 | 1.206239067 | |
| 22 | 41,100,000 | 41,250,000 | 549 | 749 | 0.886676683 | |
| 22 | 41,175,000 | 41,325,000 | 550 | 1006 | -0.397743351 | FHIT |
| 22 | 41,250,000 | 41,400,000 | 551 | 1149 | -1.006284809 | FHIT |
| 22 | 41,325,000 | 41,475,000 | 552 | 1134 | -0.74085551 | FHIT,ENSBTAG00000047771 |
| 22 | 41,400,000 | 41,550,000 | 553 | 1154 | -1.234975076 | FHIT,ENSBTAG00000047771 |
| 22 | 41,475,000 | 41,625,000 | 554 | 1002 | -1.114666056 | FHIT |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 22 | 41,550,000 | 41,700,000 | 555 | 829 | -0.798495874 | FHIT |
| 22 | 41,625,000 | 41,775,000 | 556 | 1053 | -0.659189475 | FHIT |
| 22 | 41,700,000 | 41,850,000 | 557 | 1372 | -0.904207742 | FHIT |
| 22 | 41,775,000 | 41,925,000 | 558 | 1434 | -0.675264847 | FHIT |
| 22 | 41,850,000 | 42,000,000 | 559 | 1346 | 0.431433891 | FHIT |
| 22 | 41,925,000 | 42,075,000 | 560 | 1026 | 0.443766735 | FHIT |
| 22 | 42,000,000 | 42,150,000 | 561 | 711 | 0.293277897 | FHIT |
| 22 | 42,075,000 | 42,225,000 | 562 | 706 | -0.739513973 | FHIT |
| 22 | 42,150,000 | 42,300,000 | 563 | 908 | 0.223403087 | |
| 22 | 42,225,000 | 42,375,000 | 564 | 1210 | 1.029975675 | |
| 22 | 42,300,000 | 42,450,000 | 565 | 952 | 0.659026967 | |
| 22 | 42,375,000 | 42,525,000 | 566 | 987 | 0.928790528 | |
| 22 | 42,450,000 | 42,600,000 | 567 | 1189 | 1.170524246 | |
| 22 | 42,525,000 | 42,675,000 | 568 | 1068 | 1.138326435 | |
| 22 | 42,600,000 | 42,750,000 | 569 | 1262 | 1.016914657 | |
| 22 | 42,675,000 | 42,825,000 | 570 | 1194 | 0.833855505 | |
| 22 | 42,750,000 | 42,900,000 | 571 | 1115 | 1.085247345 | |
| 22 | 42,825,000 | 42,975,000 | 572 | 862 | 1.037945188 | |
| 22 | 42,900,000 | 43,050,000 | 573 | 556 | 0.061039784 | C3orf67 |
| 22 | 42,975,000 | 43,125,000 | 574 | 714 | -0.376720988 | C3orf67 |
| 22 | 43,050,000 | 43,200,000 | 575 | 1127 | -0.25669692 | C3orf67 |
| 22 | 43,125,000 | 43,275,000 | 576 | 1413 | 0.359943911 | C3orf67,FAM3D |
| 22 | 43,200,000 | 43,350,000 | 577 | 1423 | 1.053380197 | FAM3D,MGC143103 |
| 22 | 43,275,000 | 43,425,000 | 578 | 1055 | 1.013643925 | ACOX2,KCTD6,MGC143103 |
| 22 | 43,350,000 | 43,500,000 | 579 | 682 | -0.165306934 | ACOX2,KCTD6,MGC143103,PDHB,PXK |
| 22 | 43,425,000 | 43,575,000 | 580 | 632 | -0.226777035 | ABHD6,PDHB,PXK,RPP14 |
| 22 | 43,500,000 | 43,650,000 | 581 | 462 | 0.631889142 | ABHD6,DNASE1L3,PXK,RPP14 |
| 22 | 43,575,000 | 43,725,000 | 582 | 591 | 0.803892208 | ABHD6,DNASE1L3,FLNB |
| 22 | 43,650,000 | 43,800,000 | 583 | 745 | 0.718496215 | DNASE1L3,FLNB |
| 22 | 43,725,000 | 43,875,000 | 584 | 884 | 0.782547683 | FLNB,SLMAP |
| 22 | 43,800,000 | 43,950,000 | 585 | 969 | 0.496675916 | FLNB,SLMAP |
| 22 | 43,875,000 | 44,025,000 | 586 | 717 | 0.149854529 | SLMAP |
| 22 | 43,950,000 | 44,100,000 | 587 | 612 | 0.869750587 | DENND6A,SLMAP |
| 22 | 44,025,000 | 44,175,000 | 588 | 860 | 0.95427048 | ARF4,DENND6A |
| 22 | 44,100,000 | 44,250,000 | 589 | 817 | 0.97691291 | ARF4,DENND6A,PDE12,ENSBTAG00000020802 |
| 22 | 44,175,000 | 44,325,000 | 590 | 857 | 0.785370464 | PDE12,ENSBTAG00000020802 |
| 22 | 44,250,000 | 44,400,000 | 591 | 1041 | 0.778887598 | APPL1,DNAH12,ENSBTAG00000020802 |
| 22 | 44,325,000 | 44,475,000 | 592 | 726 | 1.000432074 | APPL1,DNAH12,HESX1,ENSBTAG00000020802 |
| 22 | 44,400,000 | 44,550,000 | 593 | 695 | 0.755795541 | APPL1,HESX1,IL17RD |
| 22 | 44,475,000 | 44,625,000 | 594 | 1003 | 0.345740874 | IL17RD |
| 22 | 44,550,000 | 44,700,000 | 595 | 1084 | 0.059152922 | |
| 22 | 44,625,000 | 44,775,000 | 596 | 1244 | 0.659518655 | |
| 22 | 44,700,000 | 44,850,000 | 597 | 1234 | 0.975590037 | ARHGEF3 |
| 22 | 44,775,000 | 44,925,000 | 598 | 959 | 0.805997349 | ARHGEF3,FAM208A |
| 22 | 44,850,000 | 45,000,000 | 599 | 710 | 0.86172193 | ARHGEF3,CCDC66,FAM208A |
| 22 | 44,925,000 | 45,075,000 | 600 | 739 | 0.951688028 | CCDC66,FAM208A |
| 22 | 45,000,000 | 45,150,000 | 601 | 1019 | 0.754355673 | ERC2 |
| 22 | 45,075,000 | 45,225,000 | 602 | 997 | 0.757161499 | ERC2 |
| 22 | 45,150,000 | 45,300,000 | 603 | 936 | 0.993085772 | ERC2 |
| 22 | 45,225,000 | 45,375,000 | 604 | 849 | 0.937336348 | ERC2 |
| 22 | 45,300,000 | 45,450,000 | 605 | 757 | 0.914177614 | ERC2 |
| 22 | 45,375,000 | 45,525,000 | 606 | 671 | 0.838579493 | ERC2 |
| 22 | 45,450,000 | 45,600,000 | 607 | 675 | 0.769806075 | ERC2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 45,525,000 | 45,675,000 | 608 | 709 | 0.816139596 | ERC2 |
| 22 | 45,600,000 | 45,750,000 | 609 | 674 | 0.828378163 | |
| 22 | 45,675,000 | 45,825,000 | 610 | 748 | 1.03406607 | |
| 22 | 45,750,000 | 45,900,000 | 611 | 732 | 0.966285036 | |
| 22 | 45,825,000 | 45,975,000 | 612 | 641 | 0.448117751 | |
| 22 | 45,900,000 | 46,050,000 | 613 | 664 | 0.661975123 | |
| 22 | 45,975,000 | 46,125,000 | 614 | 663 | 1.128575725 | WNT5A |
| 22 | 46,050,000 | 46,200,000 | 615 | 1248 | 0.698273168 | WNT5A |
| 22 | 46,125,000 | 46,275,000 | 616 | 1395 | 0.559517458 | |
| 22 | 46,200,000 | 46,350,000 | 617 | 939 | 0.765576803 | |
| 22 | 46,275,000 | 46,425,000 | 618 | 962 | 0.909938113 | |
| 22 | 46,350,000 | 46,500,000 | 619 | 1061 | 0.983109114 | CACNA2D3 |
| 22 | 46,425,000 | 46,575,000 | 620 | 992 | 1.111130274 | CACNA2D3 |
| 22 | 46,500,000 | 46,650,000 | 621 | 874 | 1.201173774 | CACNA2D3,LRTM1 |
| 22 | 46,575,000 | 46,725,000 | 622 | 1116 | 0.737508616 | CACNA2D3,LRTM1 |
| 22 | 46,650,000 | 46,800,000 | 623 | 1016 | 0.402046199 | CACNA2D3 |
| 22 | 46,725,000 | 46,875,000 | 624 | 646 | 0.541038456 | CACNA2D3 |
| 22 | 46,800,000 | 46,950,000 | 625 | 599 | 0.688296901 | CACNA2D3 |
| 22 | 46,875,000 | 47,025,000 | 626 | 815 | 0.624807865 | CACNA2D3 |
| 22 | 46,950,000 | 47,100,000 | 627 | 1050 | 0.261833003 | |
| 22 | 47,025,000 | 47,175,000 | 628 | 956 | 0.140424236 | |
| 22 | 47,100,000 | 47,250,000 | 629 | 944 | -0.999296178 | |
| 22 | 47,175,000 | 47,325,000 | 630 | 1157 | -0.529965074 | |
| 22 | 47,250,000 | 47,400,000 | 631 | 902 | 0.62855457 | |
| 22 | 47,325,000 | 47,475,000 | 632 | 798 | -0.292629158 | |
| 22 | 47,400,000 | 47,550,000 | 633 | 959 | -0.255666517 | |
| 22 | 47,475,000 | 47,625,000 | 634 | 988 | 0.625572349 | ACTR8,IL17RB,SELK |
| 22 | 47,550,000 | 47,700,000 | 635 | 1098 | 0.804183207 | ACTR8,CHDH,IL17RB,SELK |
| 22 | 47,625,000 | 47,775,000 | 636 | 711 | 0.890837443 | CACNA1D,CHDH,IL17RB |
| 22 | 47,700,000 | 47,850,000 | 637 | 360 | 0.798064292 | CACNA1D,CHDH |
| 22 | 47,775,000 | 47,925,000 | 638 | 516 | 0.789838407 | CACNA1D |
| 22 | 47,850,000 | 48,000,000 | 639 | 1043 | 0.92369956 | CACNA1D |
| 22 | 47,925,000 | 48,075,000 | 640 | 1069 | 0.919451247 | CACNA1D |
| 22 | 48,000,000 | 48,150,000 | 641 | 855 | 0.532530726 | CACNA1D,CHCHD5 |
| 22 | 48,075,000 | 48,225,000 | 642 | 1051 | 0.51031206 | CHCHD5,DCP1A |
| 22 | 48,150,000 | 48,300,000 | 643 | 932 | 0.64339892 | DCP1A,TKT |
| 22 | 48,225,000 | 48,375,000 | 644 | 925 | 0.604968969 | DCP1A,PRKCD,TKT,ENSBTAG00000020973 |
| 22 | 48,300,000 | 48,450,000 | 645 | 1128 | 0.607647266 | PRKCD,ENSBTAG00000020973 |
| 22 | 48,375,000 | 48,525,000 | 646 | 1017 | 0.825130309 | SFMBT1,ENSBTAG00000020973 |
| 22 | 48,450,000 | 48,600,000 | 647 | 829 | 0.983165436 | SFMBT1,TMEM110 |
| 22 | 48,525,000 | 48,675,000 | 648 | 682 | 0.913170083 | ITIH1,ITIH3,ITIH4,MUSTN1,SFMBT1,TMEM110 |
| 22 | 48,600,000 | 48,750,000 | 649 | 368 | 0.816491363 | GLT8D1,GNL3,ITIH1,ITIH3,ITIH4,MUSTN1,NEK4,PBRM1,SPCS1,TMEM110 |
| 22 | 48,675,000 | 48,825,000 | 650 | 201 | 0.650531121 | GLT8D1,GNL3,NEK4,PBRM1,SPCS1 |
| 22 | 48,750,000 | 48,900,000 | 651 | 270 | -0.797590367 | NT5DC2,PBRM1,SMIM4,STAB1 |
| 22 | 48,825,000 | 48,975,000 | 652 | 320 | -2.17642592 | NISCH,NT5DC2,PBRM1,SMIM4,STAB1 |
| 22 | 48,900,000 | 49,050,000 | 653 | 267 | -1.597573149 | BAP1,DNAH1,NISCH,PHF7,SEMA3G,STAB1,TNNC1 |
| 22 | 48,975,000 | 49,125,000 | 654 | 197 | -0.473230613 | BAP1,DNAH1,NISCH,PHF7,SEMA3G,TNNC1 |
| 22 | 49,050,000 | 49,200,000 | 655 | 158 | -0.785400122 | DNAH1,GLYCTK,WDR82P1 |
| 22 | 49,125,000 | 49,275,000 | 656 | 347 | -0.45964191 | ALAS1,GLYCTK,PPM1M,TLR9,WDR82P1 |
| 22 | 49,200,000 | 49,350,000 | 657 | 403 | -2.520582414 | ALAS1,POC1A,PPM1M,TLR9,WDR82P1 |
| 22 | 49,275,000 | 49,425,000 | 658 | 358 | -7.302848494 | DUSP7,POC1A |
| 22 | 49,350,000 | 49,500,000 | 659 | 484 | -4.838330032 | DUSP7,POC1A,RPL29 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 49,425,000 | 49,575,000 | 660 | 416 | -1.521632022 | ABHD14B,ACY1,GPR62,IQCF1,IQCF5,PARP3,PCBP4,RPL29,RRP9 |
| 22 | 49,500,000 | 49,650,000 | 661 | 298 | 0.041555815 | ABHD14B,ACY1,GPR62,IQCF1,IQCF2,IQCF3,IQCF5,IQCF6,PARP3,PCBP4,RPL29,RRP9,ENSBTAG00000037410 |
| 22 | 49,575,000 | 49,725,000 | 662 | 337 | 0.545270178 | GRM2,IQCF2,IQCF3,IQCF6,TEX264,ENSBTAG00000037410 |
| 22 | 49,650,000 | 49,800,000 | 663 | 305 | 1.069076653 | GRM2,RAD54L2,TEX264 |
| 22 | 49,725,000 | 49,875,000 | 664 | 194 | 1.224101699 | RAD54L2,VPRBP |
| 22 | 49,800,000 | 49,950,000 | 665 | 166 | 1.36275589 | MANF,RBM15B,VPRBP |
| 22 | 49,875,000 | 50,025,000 | 666 | 261 | 1.352206954 | DOCK3,MANF,RBM15B,VPRBP |
| 22 | 49,950,000 | 50,100,000 | 667 | 270 | 1.347120752 | DOCK3,MANF |
| 22 | 50,025,000 | 50,175,000 | 668 | 205 | 1.344866323 | DOCK3 |
| 22 | 50,100,000 | 50,250,000 | 669 | 212 | 1.25707551 | DOCK3 |
| 22 | 50,175,000 | 50,325,000 | 670 | 199 | 1.26896699 | CISH,MAPKAPK3 |
| 22 | 50,250,000 | 50,400,000 | 671 | 249 | 1.067183035 | C22H3ORF18,CISH,HEMK1,MAPKAPK3 |
| 22 | 50,325,000 | 50,475,000 | 672 | 389 | 1.084010509 | C22H3ORF18,CISH,HEMK1 |
| 22 | 50,400,000 | 50,550,000 | 673 | 555 | 1.262828302 | CACNA2D2 |
| 22 | 50,475,000 | 50,625,000 | 674 | 493 | 1.170924605 | CACNA2D2,CYB561D2,HYAL1,HYAL2,IFRD2,NAT6,NPRL2,RASSF1,TMEM115,TUSC2,ZMYND10,ENSBTAG00000047200 |
| 22 | 50,550,000 | 50,700,000 | 675 | 368 | 0.462928117 | CACNA2D2,CYB561D2,GNAI2,HYAL1,HYAL2,IFRD2,LSMEM2,NAT6,NPRL2,RASSF1,SEMA3B,TMEM115,TUSC2,ZMYND10,ENSBTAG00000047200 |
| 22 | 50,625,000 | 50,775,000 | 676 | 409 | -1.413112685 | GNAI2,GNAT1,IFRD2,LSMEM2,SEMA3B,SEMA3F,SLC38A3 |
| 22 | 50,700,000 | 50,850,000 | 677 | 335 | -1.793817827 | GNAT1,RBM5,RBM6,SEMA3F,SLC38A3 |
| 22 | 50,775,000 | 50,925,000 | 678 | 220 | -0.59520123 | MON1A,RBM5,RBM6 |
| 22 | 50,850,000 | 51,000,000 | 679 | 333 | 0.685170738 | CAMKV,MON1A,MST1R,RBM6,TRAI,UBA7,ENSBTAG00000040083 |
| 22 | 50,925,000 | 51,075,000 | 680 | 310 | 0.9934299 | AMIGO3,CAMKV,CDHR4,FAM212A,GMPPB,IP6K1,MST1R,RNF123,TRAI,UBA7,ENSBTAG00000040083 |
| 22 | 51,000,000 | 51,150,000 | 681 | 274 | -2.117495926 | AMIGO3,APEH,BSN,CDHR4,FAM212A,GMPPB,IP6K1,MST1,RNF123,UBA7 |
| 22 | 51,075,000 | 51,225,000 | 682 | 670 | -2.501585663 | APEH,BSN,DAG1,MST1,RNF123 |
| 22 | 51,150,000 | 51,300,000 | 683 | 704 | -1.349032494 | AMT,BSN,DAG1,NICN1,RHOA,TCTA |
| 22 | 51,225,000 | 51,375,000 | 684 | 367 | -0.002831314 | AMT,NICN1,RHOA,TCTA,USP4 |
| 22 | 51,300,000 | 51,450,000 | 685 | 284 | 0.32963721 | C3orf62,CCDC36,CCDC71,KLHDC8B,MGC137053,RHOA,USP4 |
| 22 | 51,375,000 | 51,525,000 | 686 | 262 | 0.09561475 | C3orf62,CCDC36,CCDC71,KLHDC8B,LAMC1,MGC137053,QARS,QRIC1,USP19 |
| 22 | 51,450,000 | 51,600,000 | 687 | 258 | 0.229912271 | ARIH2,DALRD3,IMPDH2,LAMC1,NDUFAF3,P4HTM,QARS,QRIC1,USP19,WDR6 |
| 22 | 51,525,000 | 51,675,000 | 688 | 286 | 0.421819866 | ARIH2,DALRD3,IMPDH2,NDUFAF3,P4HTM,PRKAR2A,QRIC1,SLC25A20,WDR6 |
| 22 | 51,600,000 | 51,750,000 | 689 | 312 | 0.554528858 | ARIH2,IP6K2,PRKAR2A,SLC25A20 |
| 22 | 51,675,000 | 51,825,000 | 690 | 342 | 0.585211867 | CELSR3,IP6K2,NCKIPSD,PRKAR2A,SLC26A6 |
| 22 | 51,750,000 | 51,900,000 | 691 | 350 | -0.366242737 | CELSR3,COL7A1,IP6K2,NCKIPSD,PFKFB4,SLC26A6,TMEM89,UCN2,UQCRC1 |
| 22 | 51,825,000 | 51,975,000 | 692 | 356 | -0.412317004 | ATRIP,COL7A1,PFKFB4,SHISA5,SLC26A6,TMEM89,TREX1,UCN2,UQCRC1 |
| 22 | 51,900,000 | 52,050,000 | 693 | 535 | 0.104647763 | ATRIP,CCDC51,PFKFB4,PLXNB1,SHISA5,TREX1 |
| 22 | 51,975,000 | 52,125,000 | 694 | 1106 | -1.18850446 | ATRIP,CCDC51,PLXNB1,SPINK8 |
| 22 | 52,050,000 | 52,200,000 | 695 | 1137 | -1.756014136 | CATHL1,CATHL2,CATHL3,CATHL7,NME6,SPINK8,ENSBTAG0000016153,ENSBTAG00000039879 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| | | | | | | CATHL1,CATHL2,CATHL3,CATHL5,CATHL6,CATHL7,CDC25 |
| 22 | 52,125,000 | 52,275,000 | 696 | 658 | -1.380846478 | A,NME6,ENSBTAG00000016153,ENSBTAG00000031594,E NSBTAG00000039879 |
| 22 | 52,200,000 | 52,350,000 | 697 | 587 | -0.594812552 | CATHL5,CATHL6,CDC25A,ENSBTAG00000031594 |
| 22 | 52,275,000 | 52,425,000 | 698 | 637 | -0.19512024 | MAP4 |
| 22 | 52,350,000 | 52,500,000 | 699 | 520 | -0.751585114 | DHX30,MAP4,ENSBTAG00000047174 |
| 22 | 52,425,000 | 52,575,000 | 700 | 411 | -0.989819916 | DHX30,MAP4,SMARCC1,ENSBTAG00000047174 |
| 22 | 52,500,000 | 52,650,000 | 701 | 493 | 0.069789118 | CSPG5,SMARCC1 |
| 22 | 52,575,000 | 52,725,000 | 702 | 603 | -0.009264965 | C22H3orf75,CSPG5,SMARCC1 |
| 22 | 52,650,000 | 52,800,000 | 703 | 581 | -1.525712182 | C22H3orf75,CSPG5,SCAP |
| 22 | 52,725,000 | 52,875,000 | 704 | 451 | -2.549677255 | KLHL18,NGP,PTPN23,SCAP |
| 22 | 52,800,000 | 52,950,000 | 705 | 458 | -2.19614258 | KIF9,KLHL18,NGP,PTPN23,SCAP |
| 22 | 52,875,000 | 53,025,000 | 706 | 437 | -1.604921429 | KIF9,KLHL18,SETD2 |
| 22 | 52,950,000 | 53,100,000 | 707 | 364 | -0.220891268 | KIF9,SETD2,ENSBTAG00000022598 |
| 22 | 53,025,000 | 53,175,000 | 708 | 466 | 0.467001463 | CCDC12,PTH1R,SETD2,ENSBTAG00000022598 |
| 22 | 53,100,000 | 53,250,000 | 709 | 424 | 0.702139539 | CCDC12,MYL3,PRSS42,PTH1R |
| 22 | 53,175,000 | 53,325,000 | 710 | 383 | -0.387072451 | MYL3,PRSS42,PRSS45,PRSS46,PTH1R,ENSBTAG000000378 21 |
| 22 | 53,250,000 | 53,400,000 | 711 | 633 | 0.466718391 | ALS2CL,PRSS45,PRSS46,PRSS50,TMIE,ENSBTAG000000378 21 |
| 22 | 53,325,000 | 53,475,000 | 712 | 987 | 0.745037268 | ALS2CL,LRRC2,PRSS46,PRSS50,TDGF1,TMIE |
| 22 | 53,400,000 | 53,550,000 | 713 | 1127 | -0.593106921 | LRRC2,LTF,RTP3,TDGF1 |
| 22 | 53,475,000 | 53,625,000 | 714 | 861 | -1.483867428 | CCR2,CCR5,CCRL2,LRRC2,LTF,RTP3 |
| 22 | 53,550,000 | 53,700,000 | 715 | 379 | -1.269259771 | CCR2,CCR5,CCRL2,LTF |
| 22 | 53,625,000 | 53,775,000 | 716 | 247 | -2.395926136 | CCR3 |
| 22 | 53,700,000 | 53,850,000 | 717 | 475 | -0.011288786 | CCR3,ENSBTAG00000031355 |
| 22 | 53,775,000 | 53,925,000 | 718 | 626 | 0.897381582 | CCR1,ENSBTAG00000031355 |
| 22 | 53,850,000 | 54,000,000 | 719 | 729 | 0.017427852 | CCR1,CXCR6,FYCO1,XCR1 |
| 22 | 53,925,000 | 54,075,000 | 720 | 950 | -0.438509484 | CCR9,CXCR6,FYCO1,XCR1 |
| 22 | 54,000,000 | 54,150,000 | 721 | 993 | -0.13005533 | CCR9,CXCR6,FYCO1,LZTFL1,SLC6A20 |
| 22 | 54,075,000 | 54,225,000 | 722 | 1127 | -1.631714527 | LZTFL1,SACM1L,SLC6A20 |
| 22 | 54,150,000 | 54,300,000 | 723 | 1424 | -2.435909982 | LIMD1,SACM1L,SLC6A20 |
| 22 | 54,225,000 | 54,375,000 | 724 | 1178 | -1.241528367 | LARS2,LIMD1,SACM1L |
| 22 | 54,300,000 | 54,450,000 | 725 | 901 | -0.490333359 | LARS2,LIMD1 |
| 22 | 54,375,000 | 54,525,000 | 726 | 863 | -0.429663421 | LARS2 |
| 22 | 54,450,000 | 54,600,000 | 727 | 819 | 0.415783917 | LARS2 |
| 22 | 54,525,000 | 54,675,000 | 728 | 776 | 0.699502333 | TMEM158 |
| 22 | 54,600,000 | 54,750,000 | 729 | 775 | 0.609029248 | CDCP1,TMEM158,ENSBTAG00000026650 |
| 22 | 54,675,000 | 54,825,000 | 730 | 728 | 0.427499217 | CDCP1,CLEC3B,EXOSC7,ENSBTAG00000026650 |
| 22 | 54,750,000 | 54,900,000 | 731 | 580 | 0.667287861 | CDCP1,CLEC3B,EXOSC7,ZDHHC3 |
| 22 | 54,825,000 | 54,975,000 | 732 | 825 | 0.486291786 | EXOSC7,GHRL,SEC13,TMEM42,ZDHHC3 |
| 22 | 54,900,000 | 55,050,000 | 733 | 786 | 0.423383612 | ATP2B2,GHRL,SEC13,TMEM42 |
| 22 | 54,975,000 | 55,125,000 | 734 | 734 | 0.442777735 | ATP2B2,SEC13 |
| 22 | 55,050,000 | 55,200,000 | 735 | 713 | 0.387619219 | ATP2B2 |
| 22 | 55,125,000 | 55,275,000 | 736 | 624 | -0.016925181 | ATP2B2 |
| 22 | 55,200,000 | 55,350,000 | 737 | 768 | 0.255834812 | ATP2B2 |
| 22 | 55,275,000 | 55,425,000 | 738 | 644 | 0.733134082 | ATP2B2 |
| 22 | 55,350,000 | 55,500,000 | 739 | 525 | 0.930357088 | SLC6A11 |
| 22 | 55,425,000 | 55,575,000 | 740 | 627 | 1.303225176 | SLC6A11 |
| 22 | 55,500,000 | 55,650,000 | 741 | 719 | 1.135511748 | SLC6A11 |
| 22 | 55,575,000 | 55,725,000 | 742 | 1119 | 0.458923348 | SLC6A1,SLC6A11 |
| 22 | 55,650,000 | 55,800,000 | 743 | 1323 | -0.65298901 | SLC6A1 |
| 22 | 55,725,000 | 55,875,000 | 744 | 971 | -0.634171931 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 55,800,000 | 55,950,000 | 745 | 918 | 0.591123585 | ATG7,HRH1 |
| 22 | 55,875,000 | 56,025,000 | 746 | 749 | 0.559453328 | ATG7,HRH1 |
| 22 | 55,950,000 | 56,100,000 | 747 | 795 | 0.378086489 | ATG7,ENSBTAG00000031065 |
| 22 | 56,025,000 | 56,175,000 | 748 | 949 | 0.283034567 | ATG7,ENSBTAG00000031065 |
| 22 | 56,100,000 | 56,250,000 | 749 | 730 | -0.243585083 | ATG7,VGLL4 |
| 22 | 56,175,000 | 56,325,000 | 750 | 718 | -0.117353616 | ATG7,VGLL4 |
| 22 | 56,250,000 | 56,400,000 | 751 | 864 | 0.802423796 | VGLL4 |
| 22 | 56,325,000 | 56,475,000 | 752 | 884 | 0.860417028 | TAMM41 |
| 22 | 56,400,000 | 56,550,000 | 753 | 1170 | 0.349796837 | TAMM41,TRH |
| 22 | 56,475,000 | 56,625,000 | 754 | 1006 | 0.064388778 | TAMM41,TRH |
| 22 | 56,550,000 | 56,700,000 | 755 | 542 | 0.261023452 | |
| 22 | 56,625,000 | 56,775,000 | 756 | 516 | 0.509511408 | PLXND1,TMCC1 |
| 22 | 56,700,000 | 56,850,000 | 757 | 499 | 0.469215909 | H1FOO,PLXND1,TMCC1 |
| 22 | 56,775,000 | 56,925,000 | 758 | 746 | 0.519406937 | H1FOO,IFT122,PLXND1,RHO |
| 22 | 56,850,000 | 57,000,000 | 759 | 1175 | 0.566727149 | CAND2,EFCAB12,H1FOO,IFT122,MBD4,RHO,RPL32 |
| 22 | 56,925,000 | 57,075,000 | 760 | 1266 | 0.60268211 | CAND2,EFCAB12,IFT122,MBD4,RPL32,TMEM40 |
| 22 | 57,000,000 | 57,150,000 | 761 | 1046 | 0.692088877 | CAND2,RAF1,TMEM40 |
| 22 | 57,075,000 | 57,225,000 | 762 | 741 | -0.336702647 | MKRN2,RAF1,ENSBTAG00000045748 |
| 22 | 57,150,000 | 57,300,000 | 763 | 785 | -0.792347968 | MKRN2,MKRN2OS,RAF1,TSEN2,ENSBTAG00000045748 |
| 22 | 57,225,000 | 57,375,000 | 764 | 763 | 0.275097114 | MKRN2OS,PPARG,TSEN2 |
| 22 | 57,300,000 | 57,450,000 | 765 | 448 | 0.231151928 | PPARG,TSEN2 |
| 22 | 57,375,000 | 57,525,000 | 766 | 411 | 0.297064644 | PPARG |
| 22 | 57,450,000 | 57,600,000 | 767 | 406 | 0.261120434 | PPARG,SYN2 |
| 22 | 57,525,000 | 57,675,000 | 768 | 440 | -0.168983403 | SYN2,TIMP4 |
| 22 | 57,600,000 | 57,750,000 | 769 | 618 | -0.223032588 | SYN2,TIMP4 |
| 22 | 57,675,000 | 57,825,000 | 770 | 915 | 0.340651723 | ENSBTAG00000031115 |
| 22 | 57,750,000 | 57,900,000 | 771 | 877 | 0.734140495 | MRPS25,ZFYVE20,ENSBTAG00000031115 |
| 22 | 57,825,000 | 57,975,000 | 772 | 485 | 0.581291686 | MRPS25,NR2C2,ZFYVE20 |
| 22 | 57,900,000 | 58,050,000 | 773 | 411 | -0.105843507 | FGD5,MRPS25,NR2C2 |
| 22 | 57,975,000 | 58,125,000 | 774 | 596 | -0.190810235 | FGD5 |
| 22 | 58,050,000 | 58,200,000 | 775 | 707 | -1.892849407 | FGD5 |
| 22 | 58,125,000 | 58,275,000 | 776 | 736 | -0.803626549 | C22H3ORF19,C3orf20,FGD5 |
| 22 | 58,200,000 | 58,350,000 | 777 | 774 | 0.412620476 | C22H3ORF19,C3orf20 |
| 22 | 58,275,000 | 58,425,000 | 778 | 680 | -0.753457828 | C22H3ORF19,GRIP2 |
| 22 | 58,350,000 | 58,500,000 | 779 | 466 | -4.467390903 | GRIP2,SLC6A6 |
| 22 | 58,425,000 | 58,575,000 | 780 | 223 | -5.902774393 | SLC6A6 |
| 22 | 58,500,000 | 58,650,000 | 781 | 500 | 0.190403313 | |
| 22 | 58,575,000 | 58,725,000 | 782 | 971 | 0.774170694 | LSM3,XPC |
| 22 | 58,650,000 | 58,800,000 | 783 | 977 | 0.927656707 | CHCHD4,LSM3,TMEM43,XPC,ENSBTAG00000017173,ENSBTAG00000023918 |
| 22 | 58,725,000 | 58,875,000 | 784 | 827 | 0.55069202 | CHCHD4,TMEM43,WNT7A,ENSBTAG00000017173,ENSBTAG00000023918 |
| 22 | 58,800,000 | 58,950,000 | 785 | 946 | 0.278231247 | WNT7A |
| 22 | 58,875,000 | 59,025,000 | 786 | 1106 | 0.55532736 | FBLN2 |
| 22 | 58,950,000 | 59,100,000 | 787 | 1348 | 0.599818109 | FBLN2,HDAC11 |
| 22 | 59,025,000 | 59,175,000 | 788 | 1475 | 0.079192873 | FBLN2,HDAC11,NUP210 |
| 22 | 59,100,000 | 59,250,000 | 789 | 1149 | -0.046044152 | HDAC11,NUP210 |
| 22 | 59,175,000 | 59,325,000 | 790 | 922 | 0.797833109 | NUP210 |
| 22 | 59,250,000 | 59,400,000 | 791 | 1209 | 0.874229181 | |
| 22 | 59,325,000 | 59,475,000 | 792 | 1085 | 0.55217937 | IQSEC1 |
| 22 | 59,400,000 | 59,550,000 | 793 | 477 | -0.612256527 | IQSEC1 |
| 22 | 59,475,000 | 59,625,000 | 794 | 417 | -2.225778562 | ACAD9,IQSEC1,ENSBTAG0000003244 |
| 22 | 59,550,000 | 59,700,000 | 795 | 616 | -2.73746649 | ACAD9,EFCC1,GP9,KIAA1257,ENSBTAG0000003244 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 59,625,000 | 59,775,000 | 796 | 711 | -1.471007478 | CNBP,EFCC1,GP9,ISY1,KIAA1257 |
| 22 | 59,700,000 | 59,850,000 | 797 | 615 | 0.267942984 | CNBP,COPG1,H1FX,HMCES,ISY1 |
| 22 | 59,775,000 | 59,925,000 | 798 | 534 | 0.544290038 | COPG1,H1FX,HMCES,RAB7A,ENSBTAG00000030941 |
| 22 | 59,850,000 | 60,000,000 | 799 | 736 | 0.656800045 | RAB7A,RPN1,ENSBTAG00000030941 |
| 22 | 59,925,000 | 60,075,000 | 800 | 731 | 0.735696939 | DNAJB8,EEFSEC,GATA2,RPN1 |
| 22 | 60,000,000 | 60,150,000 | 801 | 743 | -1.545394149 | DNAJB8,EEFSEC,GATA2 |
| 22 | 60,075,000 | 60,225,000 | 802 | 939 | -1.676324037 | EEFSEC,RUVBL1,SEC61A1 |
| 22 | 60,150,000 | 60,300,000 | 803 | 1025 | -0.352309093 | EEFSEC,KBTD12,RUVBL1,SEC61A1 |
| 22 | 60,225,000 | 60,375,000 | 804 | 1233 | -0.325440598 | KBTD12,SEC61A1 |
| 22 | 60,300,000 | 60,450,000 | 805 | 1389 | -0.686212572 | MGLL |
| 22 | 60,375,000 | 60,525,000 | 806 | 1139 | -0.569633958 | ABTB1,MGLL,PODXL2 |
| 22 | 60,450,000 | 60,600,000 | 807 | 615 | -0.096894225 | ABTB1,MCM2,MGLL,PODXL2,TPRA1 |
| 22 | 60,525,000 | 60,675,000 | 808 | 630 | -0.396841357 | MCM2,PODXL2,TPRA1 |
| 22 | 60,600,000 | 60,750,000 | 809 | 1034 | -0.523776076 | |
| 22 | 60,675,000 | 60,825,000 | 810 | 1228 | 0.071886244 | |
| 22 | 60,750,000 | 60,900,000 | 811 | 1165 | 0.348348925 | |
| 22 | 60,825,000 | 60,975,000 | 812 | 747 | -0.026750835 | CHCHD6,PLXNA1 |
| 22 | 60,900,000 | 61,050,000 | 813 | 457 | -1.067188439 | CHCHD6,PLXNA1 |
| 22 | 60,975,000 | 61,125,000 | 814 | 661 | -0.615451027 | C3H3orf22,CHCHD6,CHST13,TRXR3 |
| 22 | 61,050,000 | 61,200,000 | 815 | 664 | -0.181082708 | C3H3orf22,CHCHD6,CHST13,SLC41A3,TRXR3,UROC1,ZXD C |
| 22 | 61,125,000 | 61,275,000 | 816 | 785 | 0.328814097 | ALDH1L1,CHST13,SLC41A3,UROC1,ZXDC |
| 22 | 61,200,000 | 61,350,000 | 817 | 1581 | 1.00795802 | ALDH1L1,CCDC37,KLF15,SLC41A3 |
| 22 | 61,275,000 | 61,425,000 | 818 | 1765 | 1.109976867 | CCDC37,KLF15 |
| 22 | 61,350,000 | 61,435,874 | 819 | 714 | 1.078805883 | |
| 23 | 0 | 150,000 | 1 | 493 | -0.924866435 | |
| 23 | 75,000 | 225,000 | 2 | 274 | -0.721818687 | KHDRBS2 |
| 23 | 150,000 | 300,000 | 3 | 157 | -0.502919893 | KHDRBS2 |
| 23 | 225,000 | 375,000 | 4 | 195 | -0.779586091 | KHDRBS2 |
| 23 | 300,000 | 450,000 | 5 | 445 | -1.9656647 | KHDRBS2 |
| 23 | 375,000 | 525,000 | 6 | 629 | -2.24729492 | KHDRBS2 |
| 23 | 450,000 | 600,000 | 7 | 528 | -2.013721333 | KHDRBS2 |
| 23 | 525,000 | 675,000 | 8 | 449 | -1.412223425 | KHDRBS2 |
| 23 | 600,000 | 750,000 | 9 | 423 | -0.929980309 | KHDRBS2 |
| 23 | 675,000 | 825,000 | 10 | 471 | -0.816706233 | KHDRBS2 |
| 23 | 750,000 | 900,000 | 11 | 650 | -0.590258467 | KHDRBS2 |
| 23 | 825,000 | 975,000 | 12 | 541 | -0.14807448 | KHDRBS2 |
| 23 | 900,000 | 1,050,000 | 13 | 279 | 0.710501303 | |
| 23 | 975,000 | 1,125,000 | 14 | 487 | 0.903425997 | |
| 23 | 1,050,000 | 1,200,000 | 15 | 824 | 0.860230335 | |
| 23 | 1,125,000 | 1,275,000 | 16 | 773 | 0.772385979 | |
| 23 | 1,200,000 | 1,350,000 | 17 | 652 | 0.94200358 | |
| 23 | 1,275,000 | 1,425,000 | 18 | 548 | 1.243578943 | |
| 23 | 1,350,000 | 1,500,000 | 19 | 386 | 1.384846164 | |
| 23 | 1,425,000 | 1,575,000 | 20 | 370 | 0.494988533 | |
| 23 | 1,500,000 | 1,650,000 | 21 | 793 | 0.712110872 | |
| 23 | 1,575,000 | 1,725,000 | 22 | 1195 | 0.11378016 | |
| 23 | 1,650,000 | 1,800,000 | 23 | 1085 | -2.604982333 | |
| 23 | 1,725,000 | 1,875,000 | 24 | 788 | -2.438589008 | |
| 23 | 1,800,000 | 1,950,000 | 25 | 971 | 0.931340117 | |
| 23 | 1,875,000 | 2,025,000 | 26 | 1451 | 0.952758561 | |
| 23 | 1,950,000 | 2,100,000 | 27 | 1589 | 0.806636577 | |
| 23 | 2,025,000 | 2,175,000 | 28 | 1409 | 0.85854083 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|----------------------------|
| 23 | 2,100,000 | 2,250,000 | 29 | 1505 | 0.684063343 | |
| 23 | 2,175,000 | 2,325,000 | 30 | 1665 | 0.703156296 | |
| 23 | 2,250,000 | 2,400,000 | 31 | 1323 | 0.840732211 | |
| 23 | 2,325,000 | 2,475,000 | 32 | 1158 | 0.619491416 | |
| 23 | 2,400,000 | 2,550,000 | 33 | 1099 | 0.692643166 | PRIM2 |
| 23 | 2,475,000 | 2,625,000 | 34 | 1157 | 0.807174771 | PRIM2 |
| 23 | 2,550,000 | 2,700,000 | 35 | 1066 | 0.727759497 | PRIM2 |
| 23 | 2,625,000 | 2,775,000 | 36 | 798 | 0.988233781 | PRIM2 |
| 23 | 2,700,000 | 2,850,000 | 37 | 935 | 0.970952917 | PRIM2 |
| 23 | 2,775,000 | 2,925,000 | 38 | 1313 | 0.913456829 | PRIM2 |
| 23 | 2,850,000 | 3,000,000 | 39 | 937 | 0.936003828 | BAG2,RAB23,ZNF451 |
| 23 | 2,925,000 | 3,075,000 | 40 | 285 | 1.094538981 | BAG2,RAB23,ZNF451 |
| 23 | 3,000,000 | 3,150,000 | 41 | 522 | 1.034924156 | BEND6,ZNF451 |
| 23 | 3,075,000 | 3,225,000 | 42 | 810 | 0.016901538 | BEND6 |
| 23 | 3,150,000 | 3,300,000 | 43 | 630 | -0.688073852 | |
| 23 | 3,225,000 | 3,375,000 | 44 | 547 | -0.565465946 | |
| 23 | 3,300,000 | 3,450,000 | 45 | 1293 | -0.906987428 | DST |
| 23 | 3,375,000 | 3,525,000 | 46 | 1726 | -0.066872481 | DST |
| 23 | 3,450,000 | 3,600,000 | 47 | 1434 | 0.172142091 | DST |
| 23 | 3,525,000 | 3,675,000 | 48 | 1527 | -0.824466023 | DST |
| 23 | 3,600,000 | 3,750,000 | 49 | 1403 | -1.749771591 | DST |
| 23 | 3,675,000 | 3,825,000 | 50 | 1026 | -1.020369507 | DST |
| 23 | 3,750,000 | 3,900,000 | 51 | 1144 | -0.076669909 | |
| 23 | 3,825,000 | 3,975,000 | 52 | 1120 | 0.113441467 | COL21A1 |
| 23 | 3,900,000 | 4,050,000 | 53 | 1189 | 0.480524831 | COL21A1 |
| 23 | 3,975,000 | 4,125,000 | 54 | 1459 | 0.702034307 | COL21A1 |
| 23 | 4,050,000 | 4,200,000 | 55 | 1546 | 0.313980047 | COL21A1,ENSBTAG00000046193 |
| 23 | 4,125,000 | 4,275,000 | 56 | 1245 | 0.34492107 | ENSBTAG00000046193 |
| 23 | 4,200,000 | 4,350,000 | 57 | 1019 | -0.010401509 | |
| 23 | 4,275,000 | 4,425,000 | 58 | 1077 | 0.257168638 | BMP5 |
| 23 | 4,350,000 | 4,500,000 | 59 | 787 | 0.489154495 | BMP5 |
| 23 | 4,425,000 | 4,575,000 | 60 | 711 | -0.411945806 | BMP5 |
| 23 | 4,500,000 | 4,650,000 | 61 | 910 | 0.614255364 | BMP5 |
| 23 | 4,575,000 | 4,725,000 | 62 | 1024 | 1.063386856 | HMGCLL1 |
| 23 | 4,650,000 | 4,800,000 | 63 | 986 | 1.138869258 | HMGCLL1 |
| 23 | 4,725,000 | 4,875,000 | 64 | 704 | 0.956716653 | HMGCLL1 |
| 23 | 4,800,000 | 4,950,000 | 65 | 566 | 0.212638774 | HMGCLL1 |
| 23 | 4,875,000 | 5,025,000 | 66 | 1073 | -0.41775557 | GFRAL,HMGCLL1 |
| 23 | 4,950,000 | 5,100,000 | 67 | 1272 | -0.056407254 | GFRAL,HCRTR2 |
| 23 | 5,025,000 | 5,175,000 | 68 | 1170 | 0.570790767 | HCRTR2 |
| 23 | 5,100,000 | 5,250,000 | 69 | 1222 | 0.229179162 | HCRTR2 |
| 23 | 5,175,000 | 5,325,000 | 70 | 1207 | 0.03946961 | HCRTR2 |
| 23 | 5,250,000 | 5,400,000 | 71 | 913 | 0.160502648 | FAM83B |
| 23 | 5,325,000 | 5,475,000 | 72 | 737 | -0.126200339 | FAM83B |
| 23 | 5,400,000 | 5,550,000 | 73 | 1152 | -0.934299806 | FAM83B |
| 23 | 5,475,000 | 5,625,000 | 74 | 1483 | -1.015975611 | FAM83B |
| 23 | 5,550,000 | 5,700,000 | 75 | 1090 | -0.298597924 | |
| 23 | 5,625,000 | 5,775,000 | 76 | 804 | 0.850512878 | |
| 23 | 5,700,000 | 5,850,000 | 77 | 723 | 0.756454281 | |
| 23 | 5,775,000 | 5,925,000 | 78 | 937 | 0.646598997 | |
| 23 | 5,850,000 | 6,000,000 | 79 | 1011 | 0.864872086 | TINAG |
| 23 | 5,925,000 | 6,075,000 | 80 | 688 | 0.974709303 | TINAG |
| 23 | 6,000,000 | 6,150,000 | 81 | 852 | 1.123425423 | MLIP,TINAG |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---|
| 23 | 6,075,000 | 6,225,000 | 82 | 904 | 1.315050794 | MLIP |
| 23 | 6,150,000 | 6,300,000 | 83 | 1053 | 0.799860929 | MLIP |
| 23 | 6,225,000 | 6,375,000 | 84 | 1333 | -0.186520392 | MLIP |
| 23 | 6,300,000 | 6,450,000 | 85 | 1276 | -0.064763124 | MLIP |
| 23 | 6,375,000 | 6,525,000 | 86 | 1327 | 0.79517747 | MLIP |
| 23 | 6,450,000 | 6,600,000 | 87 | 1320 | 0.787606976 | LRRRC1 |
| 23 | 6,525,000 | 6,675,000 | 88 | 1316 | -0.358660818 | LRRRC1 |
| 23 | 6,600,000 | 6,750,000 | 89 | 1200 | -0.843399053 | |
| 23 | 6,675,000 | 6,825,000 | 90 | 725 | -0.252596153 | KLHL31 |
| 23 | 6,750,000 | 6,900,000 | 91 | 562 | -0.034951339 | KLHL31 |
| 23 | 6,825,000 | 6,975,000 | 92 | 489 | 0.025899751 | GCLC |
| 23 | 6,900,000 | 7,050,000 | 93 | 636 | 0.979485766 | BOLA-DIB,BOLA-DYA,DSB,GCLC |
| 23 | 6,975,000 | 7,125,000 | 94 | 864 | 1.147000592 | BOLA-DIB,BOLA-DOB,BOLA-DYA,DSB,PSMB8,TAP1,TAP2,ENSBTAG00000003037 |
| 23 | 7,050,000 | 7,200,000 | 95 | 1094 | 0.658551868 | BOLA-DOB,H2B,HLA-DMB,PSMB8,PSMB9,TAP1,TAP2,ENSBTAG00000003037 |
| 23 | 7,125,000 | 7,275,000 | 96 | 1142 | 0.117998204 | BOLA-DMA,BOLA-DNA,BRD2,H2B,HLA-DMB,PSMB9,TAP1 |
| 23 | 7,200,000 | 7,350,000 | 97 | 687 | 0.241104591 | BOLA-DMA,BOLA-DNA,BRD2,COL11A2,HSD17B8,RING1,RXRB,SLC39A7 |
| 23 | 7,275,000 | 7,425,000 | 98 | 671 | 0.515515024 | B3GALT4,C6ORF11,COL11A2,HSD17B8,PFDN6,RGL2,RING1,RPS18,RXRB,SLC39A7,TAPBP,VPS52 |
| 23 | 7,350,000 | 7,500,000 | 99 | 934 | -0.666510148 | B3GALT4,C6ORF11,DAXX,PFDN6,RGL2,RPS18,TAPBP,VPS52,ZBTB22 |
| 23 | 7,425,000 | 7,575,000 | 100 | 583 | -1.29555774 | CUTA,DAXX,KIFC1,PHF1,SYNGAP1,TAPBP,ZBTB22,ZBTB9 |
| 23 | 7,500,000 | 7,650,000 | 101 | 300 | -0.166408306 | CUTA,KIFC1,PHF1,SYNGAP1,ZBTB9 |
| 23 | 7,575,000 | 7,725,000 | 102 | 550 | 0.445949357 | BAK1,GGNBP1,ITPR3 |
| 23 | 7,650,000 | 7,800,000 | 103 | 788 | 0.012235447 | BAK1,GGNBP1,ITPR3,UQCC2 |
| 23 | 7,725,000 | 7,875,000 | 104 | 725 | -0.192454699 | ITPR3,LEMD2,MLN,UQCC2 |
| 23 | 7,800,000 | 7,950,000 | 105 | 472 | 0.071095795 | LEMD2,MLN,UQCC2 |
| 23 | 7,875,000 | 8,025,000 | 106 | 521 | 0.546300533 | |
| 23 | 7,950,000 | 8,100,000 | 107 | 574 | -0.574113096 | GRM4 |
| 23 | 8,025,000 | 8,175,000 | 108 | 637 | -2.66652054 | GRM4 |
| 23 | 8,100,000 | 8,250,000 | 109 | 591 | -1.55569194 | GRM4 |
| 23 | 8,175,000 | 8,325,000 | 110 | 350 | -0.019611368 | GRM4,HMGA1,NUDT3,ENSBTAG000000034519 |
| 23 | 8,250,000 | 8,400,000 | 111 | 301 | -1.201019559 | HMGA1,NUDT3,ENSBTAG000000034519 |
| 23 | 8,325,000 | 8,475,000 | 112 | 358 | -0.188383975 | NUDT3,PACSIN1,RPS10 |
| 23 | 8,400,000 | 8,550,000 | 113 | 551 | -1.399852222 | NUDT3,PACSIN1,RPS10,SPDEF |
| 23 | 8,475,000 | 8,625,000 | 114 | 475 | -1.519483018 | C6ORF106,PACSIN1,SPDEF |
| 23 | 8,550,000 | 8,700,000 | 115 | 289 | 0.624106384 | C6ORF106,SPDEF |
| 23 | 8,625,000 | 8,775,000 | 116 | 303 | -0.485214873 | C6ORF106,SNRPC |
| 23 | 8,700,000 | 8,850,000 | 117 | 370 | -0.930541241 | ANKS1A,SNRPC,TAF11,UHRF1BP1 |
| 23 | 8,775,000 | 8,925,000 | 118 | 417 | -0.237390671 | ANKS1A,TAF11,UHRF1BP1 |
| 23 | 8,850,000 | 9,000,000 | 119 | 579 | 0.252331636 | ANKS1A |
| 23 | 8,925,000 | 9,075,000 | 120 | 707 | 0.532423368 | ANKS1A,TCP11 |
| 23 | 9,000,000 | 9,150,000 | 121 | 610 | 0.442220037 | ANKS1A,SCUBE3,TCP11 |
| 23 | 9,075,000 | 9,225,000 | 122 | 396 | -0.20193753 | SCUBE3,ZNF76 |
| 23 | 9,150,000 | 9,300,000 | 123 | 325 | 0.835705874 | DEF6,SCUBE3,ZNF76 |
| 23 | 9,225,000 | 9,375,000 | 124 | 503 | 1.225276168 | DEF6,PPARD,ZNF76 |
| 23 | 9,300,000 | 9,450,000 | 125 | 664 | 0.640194699 | FANCE,PPARD,RPL10A,TEAD3,TULP1 |
| 23 | 9,375,000 | 9,525,000 | 126 | 857 | -0.23965402 | FANCE,FKBP5,RPL10A,TEAD3,TULP1 |
| 23 | 9,450,000 | 9,600,000 | 127 | 628 | -0.696825257 | FKBP5 |
| 23 | 9,525,000 | 9,675,000 | 128 | 258 | -0.925304626 | FKBP5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 9,600,000 | 9,750,000 | 129 | 400 | -1.117575137 | ARMC12,CLPS,FKBP5,LHFPL5 |
| 23 | 9,675,000 | 9,825,000 | 130 | 456 | -1.083123306 | ARMC12,CLPS,LHFPL5,SRPK1 |
| 23 | 9,750,000 | 9,900,000 | 131 | 393 | -0.057872954 | SLC26A8,SRPK1 |
| 23 | 9,825,000 | 9,975,000 | 132 | 377 | 0.56853224 | MAPK14,SLC26A8 |
| 23 | 9,900,000 | 10,050,000 | 133 | 351 | 0.60722142 | MAPK13,MAPK14,SLC26A8 |
| 23 | 9,975,000 | 10,125,000 | 134 | 255 | -1.329297099 | BRPF3,MAPK13,MAPK14 |
| 23 | 10,050,000 | 10,200,000 | 135 | 201 | -1.705110113 | BRPF3,PNPLA1 |
| 23 | 10,125,000 | 10,275,000 | 136 | 305 | -1.07955848 | BRPF3,C6orf222,PNPLA1 |
| 23 | 10,200,000 | 10,350,000 | 137 | 602 | -0.053541453 | C6orf222,PNPLA1 |
| 23 | 10,275,000 | 10,425,000 | 138 | 594 | 0.543597414 | KCTD20,STK38 |
| 23 | 10,350,000 | 10,500,000 | 139 | 518 | 0.835816656 | KCTD20,SRSF3,STK38,ENSBTAG00000004219 |
| 23 | 10,425,000 | 10,575,000 | 140 | 553 | 0.405157176 | CDKN1A,RPS4Y1,SRSF3,STK38,ENSBTAG00000004219,ENSBTAG000000045551 |
| 23 | 10,500,000 | 10,650,000 | 141 | 634 | 0.152795088 | CDKN1A,CPNE5,RAB44,RPS4Y1,ENSBTAG00000010730,ENSBTAG000000045551 |
| 23 | 10,575,000 | 10,725,000 | 142 | 898 | 0.269138686 | CPNE5,RAB44,ENSBTAG00000010730,ENSBTAG00000004551 |
| 23 | 10,650,000 | 10,800,000 | 143 | 629 | 0.254821788 | C6orf89,CPNE5,PPIL1 |
| 23 | 10,725,000 | 10,875,000 | 144 | 454 | 0.466429333 | C6orf89,CPNE5,MTCH1,PI16,PPIL1 |
| 23 | 10,800,000 | 10,950,000 | 145 | 756 | 0.774655335 | C6orf89,FGD2,MTCH1,PI16 |
| 23 | 10,875,000 | 11,025,000 | 146 | 763 | 0.664508144 | FGD2 |
| 23 | 10,950,000 | 11,100,000 | 147 | 725 | 0.65467654 | PIM1,ENSBTAG000000045936 |
| 23 | 11,025,000 | 11,175,000 | 148 | 1077 | 0.552395387 | PIM1,TBC1D22B,TMEM217,ENSBTAG000000045936 |
| 23 | 11,100,000 | 11,250,000 | 149 | 1075 | -0.029992607 | RNF8,TBC1D22B,TMEM217,ENSBTAG000000045936 |
| 23 | 11,175,000 | 11,325,000 | 150 | 895 | 0.001564493 | CMTR1,RNF8,TBC1D22B |
| 23 | 11,250,000 | 11,400,000 | 151 | 817 | 0.477260801 | CCDC167,CMTR1,RNF8 |
| 23 | 11,325,000 | 11,475,000 | 152 | 932 | -0.029369411 | CCDC167,CMTR1 |
| 23 | 11,400,000 | 11,550,000 | 153 | 825 | -0.291981069 | MDGA1 |
| 23 | 11,475,000 | 11,625,000 | 154 | 867 | 1.12580625 | MDGA1 |
| 23 | 11,550,000 | 11,700,000 | 155 | 1017 | 0.816424345 | MDGA1 |
| 23 | 11,625,000 | 11,775,000 | 156 | 897 | 0.084160071 | ZFAND3 |
| 23 | 11,700,000 | 11,850,000 | 157 | 866 | -0.382973576 | ZFAND3 |
| 23 | 11,775,000 | 11,925,000 | 158 | 603 | -1.731697278 | ZFAND3 |
| 23 | 11,850,000 | 12,000,000 | 159 | 726 | -3.657609649 | ZFAND3 |
| 23 | 11,925,000 | 12,075,000 | 160 | 868 | -2.171484836 | ZFAND3 |
| 23 | 12,000,000 | 12,150,000 | 161 | 742 | 0.514069542 | ZFAND3 |
| 23 | 12,075,000 | 12,225,000 | 162 | 693 | 1.20423157 | |
| 23 | 12,150,000 | 12,300,000 | 163 | 602 | 0.84545944 | |
| 23 | 12,225,000 | 12,375,000 | 164 | 434 | -0.170321802 | |
| 23 | 12,300,000 | 12,450,000 | 165 | 333 | 0.206659972 | BTBD9 |
| 23 | 12,375,000 | 12,525,000 | 166 | 422 | -0.254983631 | BTBD9,GLO1 |
| 23 | 12,450,000 | 12,600,000 | 167 | 895 | -0.279111843 | BTBD9,DNAH8,GLO1 |
| 23 | 12,525,000 | 12,675,000 | 168 | 1125 | 0.190160803 | DNAH8 |
| 23 | 12,600,000 | 12,750,000 | 169 | 905 | 0.789272582 | DNAH8 |
| 23 | 12,675,000 | 12,825,000 | 170 | 899 | 0.960924972 | DNAH8 |
| 23 | 12,750,000 | 12,900,000 | 171 | 1344 | 1.026300872 | DNAH8 |
| 23 | 12,825,000 | 12,975,000 | 172 | 1308 | 0.111032918 | DNAH8,GLP1R,SAYSD1 |
| 23 | 12,900,000 | 13,050,000 | 173 | 1112 | -0.596869041 | GLP1R,SAYSD1 |
| 23 | 12,975,000 | 13,125,000 | 174 | 1280 | 0.209195705 | KCNK5,ENSBTAG00000007140 |
| 23 | 13,050,000 | 13,200,000 | 175 | 975 | 0.472800399 | KCNK16,KCNK17,KCNK5,ENSBTAG00000007140 |
| 23 | 13,125,000 | 13,275,000 | 176 | 809 | 0.518171135 | KCNK16,KCNK17 |
| 23 | 13,200,000 | 13,350,000 | 177 | 876 | 0.714589409 | |
| 23 | 13,275,000 | 13,425,000 | 178 | 1075 | 0.348749189 | KIF6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 13,350,000 | 13,500,000 | 179 | 1419 | 0.894531371 | KIF6 |
| 23 | 13,425,000 | 13,575,000 | 180 | 1322 | 1.131927139 | KIF6 |
| 23 | 13,500,000 | 13,650,000 | 181 | 1233 | 0.945588839 | KIF6 |
| 23 | 13,575,000 | 13,725,000 | 182 | 1324 | 0.98468551 | |
| 23 | 13,650,000 | 13,800,000 | 183 | 911 | 0.761821662 | DAAM2 |
| 23 | 13,725,000 | 13,875,000 | 184 | 363 | 0.055667585 | DAAM2,MOCS1 |
| 23 | 13,800,000 | 13,950,000 | 185 | 418 | 0.566989385 | DAAM2,MOCS1 |
| 23 | 13,875,000 | 14,025,000 | 186 | 1037 | 0.987484304 | |
| 23 | 13,950,000 | 14,100,000 | 187 | 1455 | 1.003847831 | |
| 23 | 14,025,000 | 14,175,000 | 188 | 1167 | 1.008698832 | |
| 23 | 14,100,000 | 14,250,000 | 189 | 810 | 1.23405934 | |
| 23 | 14,175,000 | 14,325,000 | 190 | 613 | 1.269731449 | LRFN2 |
| 23 | 14,250,000 | 14,400,000 | 191 | 771 | 0.735508863 | LRFN2 |
| 23 | 14,325,000 | 14,475,000 | 192 | 951 | 0.500196574 | LRFN2 |
| 23 | 14,400,000 | 14,550,000 | 193 | 761 | 0.327561225 | |
| 23 | 14,475,000 | 14,625,000 | 194 | 1091 | 0.965583728 | |
| 23 | 14,550,000 | 14,700,000 | 195 | 1708 | 0.973336432 | |
| 23 | 14,625,000 | 14,775,000 | 196 | 1772 | 0.442526526 | |
| 23 | 14,700,000 | 14,850,000 | 197 | 1557 | 0.087784063 | |
| 23 | 14,775,000 | 14,925,000 | 198 | 1604 | -0.169416191 | |
| 23 | 14,850,000 | 15,000,000 | 199 | 1311 | 0.035166431 | APOBEC2,TSPO2,UNC5CL |
| 23 | 14,925,000 | 15,075,000 | 200 | 719 | 0.813880949 | APOBEC2,NFYA,OARD1,TSPO2,UNC5CL,ENSBTAG00000021359 |
| 23 | 15,000,000 | 15,150,000 | 201 | 603 | -1.268661527 | NFYA,OARD1,TREM1,TREM2,TREML1,TREML2,ENSBTAG000021359 |
| 23 | 15,075,000 | 15,225,000 | 202 | 569 | -2.261284011 | TREM1,TREM2,TREML1,TREML2 |
| 23 | 15,150,000 | 15,300,000 | 203 | 431 | -0.975601514 | TREM1 |
| 23 | 15,225,000 | 15,375,000 | 204 | 530 | -0.158871271 | |
| 23 | 15,300,000 | 15,450,000 | 205 | 594 | -0.077412815 | FOXP4 |
| 23 | 15,375,000 | 15,525,000 | 206 | 397 | 0.313759261 | FOXP4,MDFI,TFEB |
| 23 | 15,450,000 | 15,600,000 | 207 | 401 | 0.40556713 | FRS3,MDFI,PGC,TFEB |
| 23 | 15,525,000 | 15,675,000 | 208 | 561 | 0.522059013 | FRS3,PGC,TOMM6,USP49,ENSBTAG00000038916 |
| 23 | 15,600,000 | 15,750,000 | 209 | 541 | 0.474218207 | BYSL,CCND3,FRS3,MED20,TOMM6,USP49,ENSBTAG00000038916 |
| 23 | 15,675,000 | 15,825,000 | 210 | 498 | 0.327958456 | BYSL,CCND3,MED20,TAF8 |
| 23 | 15,750,000 | 15,900,000 | 211 | 520 | 0.681124973 | C6orf132,MGC137036,TAF8 |
| 23 | 15,825,000 | 15,975,000 | 212 | 646 | 0.451968678 | C6orf132,GUCA1A,GUCA1B,MGC137036,MRPS10,TRERF1 |
| 23 | 15,900,000 | 16,050,000 | 213 | 923 | -1.200213775 | GUCA1A,GUCA1B,MRPS10,TRERF1 |
| 23 | 15,975,000 | 16,125,000 | 214 | 854 | -2.205335533 | TRERF1 |
| 23 | 16,050,000 | 16,200,000 | 215 | 431 | -1.398569785 | |
| 23 | 16,125,000 | 16,275,000 | 216 | 286 | 0.558748602 | UBR2 |
| 23 | 16,200,000 | 16,350,000 | 217 | 296 | -0.33814291 | UBR2 |
| 23 | 16,275,000 | 16,425,000 | 218 | 336 | -0.642658802 | PRPH2,TBCC,UBR2 |
| 23 | 16,350,000 | 16,500,000 | 219 | 434 | -0.271299622 | GLTSCR1L,PRPH2,TBCC,UBR2 |
| 23 | 16,425,000 | 16,575,000 | 220 | 388 | -0.098033714 | CNPY3,GLTSCR1L,PTCRA,RPL7L1 |
| 23 | 16,500,000 | 16,650,000 | 221 | 337 | 0.406001441 | CNPY3,CUL7,GLTSCR1L,GNMT,KLHDC3,MEA1,PEX6,PPP2R5D,PTCRA,RPL7L1 |
| 23 | 16,575,000 | 16,725,000 | 222 | 382 | 0.194082289 | CUL7,GNMT,KLC4,KLHDC3,MEA1,MRPL2,PEX6,PPP2R5D,PTK7 |
| 23 | 16,650,000 | 16,800,000 | 223 | 301 | 0.257128867 | CUL7,CUL9,DNPH1,KLC4,MRPL2,PTK7,SRF |
| 23 | 16,725,000 | 16,875,000 | 224 | 239 | 0.520850154 | CRIP3,CUL9,DNPH1,PTK7,SLC22A7,SRF,ENSBTAG00000045499,ENSBTAG00000046107 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 16,800,000 | 16,950,000 | 225 | 292 | 0.637467343 | CRIP3,SLC22A7,ZNF318,ENSBTAG00000045499,ENSBTAG00000046107 |
| 23 | 16,875,000 | 17,025,000 | 226 | 415 | 0.504382594 | ABCC10,CRIP3,DLK2,TJAP1,ZNF318 |
| 23 | 16,950,000 | 17,100,000 | 227 | 612 | 0.297816182 | ABCC10,DLK2,LRRC73,POLH,POLR1C,TJAP1,XPO5,YIPF3 |
| 23 | 17,025,000 | 17,175,000 | 228 | 834 | 0.10707089 | GTPBP2,LRRC73,MAD2L1BP,MRPS18A,POLH,POLR1C,RSPH9,TJAP1,XPO5,YIPF3 |
| 23 | 17,100,000 | 17,250,000 | 229 | 687 | 0.061714595 | GTPBP2,MAD2L1BP,MRPS18A,POLH,RSPH9 |
| 23 | 17,175,000 | 17,325,000 | 230 | 344 | 0.253657472 | VEGFA,ENSBTAG00000005339 |
| 23 | 17,250,000 | 17,400,000 | 231 | 514 | 1.161481357 | VEGFA,ENSBTAG00000005339 |
| 23 | 17,325,000 | 17,475,000 | 232 | 585 | 1.170087971 | |
| 23 | 17,400,000 | 17,550,000 | 233 | 504 | 0.421684053 | |
| 23 | 17,475,000 | 17,625,000 | 234 | 455 | 0.344506386 | AARS2 |
| 23 | 17,550,000 | 17,700,000 | 235 | 380 | 0.17693139 | AARS2,MRPL14,TMEM63B |
| 23 | 17,625,000 | 17,775,000 | 236 | 664 | -0.016380911 | AARS2,CDC5L,MRPL14,TMEM63B |
| 23 | 17,700,000 | 17,850,000 | 237 | 646 | -0.085752683 | CAPN11,CDC5L,SLC29A1,TMEM63B |
| 23 | 17,775,000 | 17,925,000 | 238 | 354 | -1.22518883 | CAPN11,NFKBIE,SLC29A1,SLC35B2,TMEM151B,TMEM63B,ENSBTAG00000000778 |
| 23 | 17,850,000 | 18,000,000 | 239 | 322 | -1.109577238 | NFKBIE,SLC29A1,SLC35B2,TMEM151B,ENSBTAG00000000778 |
| 23 | 17,925,000 | 18,075,000 | 240 | 425 | 0.036132623 | |
| 23 | 18,000,000 | 18,150,000 | 241 | 459 | -0.858137551 | |
| 23 | 18,075,000 | 18,225,000 | 242 | 358 | -1.182222775 | |
| 23 | 18,150,000 | 18,300,000 | 243 | 285 | -0.139717487 | SUPT3H |
| 23 | 18,225,000 | 18,375,000 | 244 | 233 | -0.943368948 | SUPT3H |
| 23 | 18,300,000 | 18,450,000 | 245 | 222 | -1.05743243 | SUPT3H |
| 23 | 18,375,000 | 18,525,000 | 246 | 253 | 0.393604922 | SUPT3H |
| 23 | 18,450,000 | 18,600,000 | 247 | 241 | -0.101359715 | SUPT3H |
| 23 | 18,525,000 | 18,675,000 | 248 | 200 | 0.27856418 | RUNX2,SUPT3H |
| 23 | 18,600,000 | 18,750,000 | 249 | 201 | 1.132624024 | RUNX2,SUPT3H |
| 23 | 18,675,000 | 18,825,000 | 250 | 317 | 0.790901806 | RUNX2 |
| 23 | 18,750,000 | 18,900,000 | 251 | 728 | 1.087228987 | RUNX2 |
| 23 | 18,825,000 | 18,975,000 | 252 | 1103 | 1.038554365 | |
| 23 | 18,900,000 | 19,050,000 | 253 | 1241 | 0.92617754 | |
| 23 | 18,975,000 | 19,125,000 | 254 | 1095 | 0.784911916 | |
| 23 | 19,050,000 | 19,200,000 | 255 | 951 | 0.664304175 | CLIC5 |
| 23 | 19,125,000 | 19,275,000 | 256 | 1358 | 0.325879994 | CLIC5 |
| 23 | 19,200,000 | 19,350,000 | 257 | 1504 | -0.48657133 | CLIC5 |
| 23 | 19,275,000 | 19,425,000 | 258 | 1212 | -0.387043529 | CLIC5,ENPP4,ENPP5 |
| 23 | 19,350,000 | 19,500,000 | 259 | 914 | 0.170401316 | ENPP4,ENPP5,RCAN2 |
| 23 | 19,425,000 | 19,575,000 | 260 | 660 | -1.291646973 | RCAN2 |
| 23 | 19,500,000 | 19,650,000 | 261 | 824 | -1.715359209 | RCAN2 |
| 23 | 19,575,000 | 19,725,000 | 262 | 1355 | 0.331004897 | RCAN2 |
| 23 | 19,650,000 | 19,800,000 | 263 | 1333 | 0.912869037 | CYP39A1,RCAN2 |
| 23 | 19,725,000 | 19,875,000 | 264 | 939 | 0.99805594 | CYP39A1,SLC25A27 |
| 23 | 19,800,000 | 19,950,000 | 265 | 1026 | 0.39082988 | CYP39A1,PLA2G7,SLC25A27,TDRD6 |
| 23 | 19,875,000 | 20,025,000 | 266 | 1073 | -2.241010227 | ANKRD66,MEP1A,PLA2G7,SLC25A27,TDRD6 |
| 23 | 19,950,000 | 20,100,000 | 267 | 829 | -2.926474796 | ANKRD66,GPR116,MEP1A |
| 23 | 20,025,000 | 20,175,000 | 268 | 824 | 0.194370368 | GPR116,MEP1A |
| 23 | 20,100,000 | 20,250,000 | 269 | 1058 | 0.304108615 | GPR110,GPR116 |
| 23 | 20,175,000 | 20,325,000 | 270 | 982 | -1.190689137 | GPR110 |
| 23 | 20,250,000 | 20,400,000 | 271 | 975 | -1.894224609 | GPR110 |
| 23 | 20,325,000 | 20,475,000 | 272 | 1061 | -0.100525325 | TNFRSF21 |
| 23 | 20,400,000 | 20,550,000 | 273 | 1082 | -0.372544856 | TNFRSF21 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------------|
| 23 | 20,475,000 | 20,625,000 | 274 | 1136 | -0.519354626 | CD2AP |
| 23 | 20,550,000 | 20,700,000 | 275 | 1104 | 0.473104589 | CD2AP |
| 23 | 20,625,000 | 20,775,000 | 276 | 855 | 1.185602698 | CD2AP,GPR111,GPR115 |
| 23 | 20,700,000 | 20,850,000 | 277 | 897 | 0.48553275 | GPR111,GPR115,OPN5 |
| 23 | 20,775,000 | 20,925,000 | 278 | 795 | 0.408270386 | C23H6orf138,OPN5 |
| 23 | 20,850,000 | 21,000,000 | 279 | 730 | 0.868606879 | C23H6orf138 |
| 23 | 20,925,000 | 21,075,000 | 280 | 1039 | 0.382844819 | C23H6orf138 |
| 23 | 21,000,000 | 21,150,000 | 281 | 845 | 0.265615556 | C23H6orf138 |
| 23 | 21,075,000 | 21,225,000 | 282 | 1012 | -0.574644842 | C23H6orf138 |
| 23 | 21,150,000 | 21,300,000 | 283 | 1524 | -0.321144056 | |
| 23 | 21,225,000 | 21,375,000 | 284 | 1421 | 0.334028411 | |
| 23 | 21,300,000 | 21,450,000 | 285 | 1427 | 0.110521496 | |
| 23 | 21,375,000 | 21,525,000 | 286 | 1710 | -0.116529511 | |
| 23 | 21,450,000 | 21,600,000 | 287 | 1367 | -0.36135819 | |
| 23 | 21,525,000 | 21,675,000 | 288 | 1008 | -0.399328582 | |
| 23 | 21,600,000 | 21,750,000 | 289 | 1422 | -0.346122756 | |
| 23 | 21,675,000 | 21,825,000 | 290 | 1583 | -0.320805185 | |
| 23 | 21,750,000 | 21,900,000 | 291 | 1533 | 0.270510078 | |
| 23 | 21,825,000 | 21,975,000 | 292 | 1591 | 0.385400384 | MUT |
| 23 | 21,900,000 | 22,050,000 | 293 | 1144 | 0.45413401 | C23H6orf141,CENPQ,GLYATL3,MUT |
| 23 | 21,975,000 | 22,125,000 | 294 | 1079 | 0.098550374 | C23H6orf141,CENPQ,GLYATL3,MUT,RHAG |
| 23 | 22,050,000 | 22,200,000 | 295 | 1215 | 0.539340215 | CRISP2,CRISP3,RHAG |
| 23 | 22,125,000 | 22,275,000 | 296 | 1043 | 0.816254976 | CRISP1,CRISP2,CRISP3 |
| 23 | 22,200,000 | 22,350,000 | 297 | 1284 | 0.224787132 | CRISP1 |
| 23 | 22,275,000 | 22,425,000 | 298 | 1387 | 0.355661023 | DEFB112 |
| 23 | 22,350,000 | 22,500,000 | 299 | 1218 | 0.948740425 | DEFB112 |
| 23 | 22,425,000 | 22,575,000 | 300 | 1097 | 0.899537932 | |
| 23 | 22,500,000 | 22,650,000 | 301 | 902 | 0.570054736 | |
| 23 | 22,575,000 | 22,725,000 | 302 | 924 | 0.497789318 | |
| 23 | 22,650,000 | 22,800,000 | 303 | 973 | -0.037457031 | |
| 23 | 22,725,000 | 22,875,000 | 304 | 962 | 0.021993235 | |
| 23 | 22,800,000 | 22,950,000 | 305 | 1095 | 0.548456892 | |
| 23 | 22,875,000 | 23,025,000 | 306 | 1008 | 0.552567661 | TFAP2D |
| 23 | 22,950,000 | 23,100,000 | 307 | 1081 | -0.241785378 | TFAP2B,TFAP2D |
| 23 | 23,025,000 | 23,175,000 | 308 | 1135 | 0.014616131 | TFAP2B,TFAP2D |
| 23 | 23,100,000 | 23,250,000 | 309 | 966 | 0.522084139 | TFAP2B |
| 23 | 23,175,000 | 23,325,000 | 310 | 1422 | 0.334562282 | |
| 23 | 23,250,000 | 23,400,000 | 311 | 1804 | 0.563525708 | |
| 23 | 23,325,000 | 23,475,000 | 312 | 1874 | 0.703669172 | |
| 23 | 23,400,000 | 23,550,000 | 313 | 1929 | 0.940480631 | |
| 23 | 23,475,000 | 23,625,000 | 314 | 2005 | 0.717932258 | |
| 23 | 23,550,000 | 23,700,000 | 315 | 1854 | 0.024738332 | |
| 23 | 23,625,000 | 23,775,000 | 316 | 1882 | 0.044641712 | |
| 23 | 23,700,000 | 23,850,000 | 317 | 1900 | 0.136405805 | PKHD1 |
| 23 | 23,775,000 | 23,925,000 | 318 | 1835 | -0.174777585 | PKHD1 |
| 23 | 23,850,000 | 24,000,000 | 319 | 1983 | -0.453849364 | PKHD1 |
| 23 | 23,925,000 | 24,075,000 | 320 | 1782 | -0.357904538 | PKHD1 |
| 23 | 24,000,000 | 24,150,000 | 321 | 1643 | 0.129346783 | PKHD1 |
| 23 | 24,075,000 | 24,225,000 | 322 | 1904 | 0.350399229 | PKHD1 |
| 23 | 24,150,000 | 24,300,000 | 323 | 2394 | 0.718224476 | PKHD1 |
| 23 | 24,225,000 | 24,375,000 | 324 | 2476 | 0.870595255 | IL17,PKHD1 |
| 23 | 24,300,000 | 24,450,000 | 325 | 2472 | 0.509002542 | IL17,IL17F,MCM3 |
| 23 | 24,375,000 | 24,525,000 | 326 | 2194 | 0.296783402 | IL17F,MCM3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 24,450,000 | 24,600,000 | 327 | 2131 | -0.110493712 | EFHC1,MCM3,PAQR8 |
| 23 | 24,525,000 | 24,675,000 | 328 | 2572 | -0.155298027 | EFHC1,PAQR8,TRAM2 |
| 23 | 24,600,000 | 24,750,000 | 329 | 2268 | 0.102767943 | EFHC1,TRAM2 |
| 23 | 24,675,000 | 24,825,000 | 330 | 2201 | 0.228943012 | GSTA2,TMEM14A,TRAM2 |
| 23 | 24,750,000 | 24,900,000 | 331 | 2401 | -0.578988991 | GSTA1,GSTA2,GSTA5,TMEM14A,ENSBTAG00000025485 |
| 23 | 24,825,000 | 24,975,000 | 332 | 2372 | -0.91585483 | GSTA1,GSTA2,GSTA4,GSTA5,ENSBTAG00000025485,ENSBTAG00000032642 |
| 23 | 24,900,000 | 25,050,000 | 333 | 2502 | -0.018284252 | FBXO9,GSTA4,GSTA5,ICK,ENSBTAG00000032642 |
| 23 | 24,975,000 | 25,125,000 | 334 | 2881 | 0.193381445 | FBXO9,GCM-1,GSTA4,ICK |
| 23 | 25,050,000 | 25,200,000 | 335 | 2652 | 0.021244432 | ELOVL5,FBXO9,GCM-1 |
| 23 | 25,125,000 | 25,275,000 | 336 | 2306 | -0.021559752 | ELOVL5 |
| 23 | 25,200,000 | 25,350,000 | 337 | 3157 | 0.076852862 | ELOVL5 |
| 23 | 25,275,000 | 25,425,000 | 338 | 2684 | -0.167667712 | BOLA-DQA2,BOLA-DQA5,BOLA-DQB,ENSBTAG00000003352 |
| 23 | 25,350,000 | 25,500,000 | 339 | 2596 | -0.581515139 | BOLA-DQA1,BOLA-DQA2,BOLA-DQA5,BOLA-DQB,BOLA-DRB3,ENSBTAG00000003352 |
| 23 | 25,425,000 | 25,575,000 | 340 | 3551 | 0.043453916 | BOLA-DQA1,BOLA-DRB3,ENSBTAG00000038397 |
| 23 | 25,500,000 | 25,650,000 | 341 | 3083 | 0.419796514 | BOLA-DRA,BTNL2,ENSBTAG00000007618,ENSBTAG00000034945,ENSBTAG00000038397 |
| 23 | 25,575,000 | 25,725,000 | 342 | 2489 | 0.496854922 | BOLA-DRA,BTNL2,ENSBTAG00000007618,ENSBTAG00000034945,ENSBTAG00000038397 |
| 23 | 25,650,000 | 25,800,000 | 343 | 2194 | 0.189480737 | ENSBTAG00000007618 |
| 23 | 25,725,000 | 25,875,000 | 344 | 2771 | -0.85958776 | BOLA-DQB |
| 23 | 25,800,000 | 25,950,000 | 345 | 2993 | -0.40871273 | BOLA-DQB |
| 23 | 25,875,000 | 26,025,000 | 346 | 2363 | -0.361047785 | ENSBTAG00000033979 |
| 23 | 25,950,000 | 26,100,000 | 347 | 2031 | -1.453258147 | ENSBTAG00000033979 |
| 23 | 26,025,000 | 26,175,000 | 348 | 1290 | -2.526942951 | |
| 23 | 26,100,000 | 26,250,000 | 349 | 823 | -1.613077622 | |
| 23 | 26,175,000 | 26,325,000 | 350 | 1558 | -0.525508262 | |
| 23 | 26,250,000 | 26,400,000 | 351 | 1781 | -1.194558084 | ENSBTAG00000026163 |
| 23 | 26,325,000 | 26,475,000 | 352 | 1982 | -1.645027591 | ENSBTAG00000026163 |
| 23 | 26,400,000 | 26,550,000 | 353 | 2287 | 0.062332926 | |
| 23 | 26,475,000 | 26,625,000 | 354 | 2054 | 0.058724554 | |
| 23 | 26,550,000 | 26,700,000 | 355 | 1990 | -0.092204311 | ENSBTAG00000046116 |
| 23 | 26,625,000 | 26,775,000 | 356 | 2240 | 0.048261538 | C6orf10,ENSBTAG00000046116 |
| 23 | 26,700,000 | 26,850,000 | 357 | 2555 | -0.065991408 | C6orf10 |
| 23 | 26,775,000 | 26,925,000 | 358 | 2736 | -0.40988518 | C6orf10,ENSBTAG00000023563 |
| 23 | 26,850,000 | 27,000,000 | 359 | 3174 | -0.275672899 | NOTCH4,ENSBTAG00000023563,ENSBTAG00000048304 |
| 23 | 26,925,000 | 27,075,000 | 360 | 2600 | -0.004374259 | AGER,AGPAT1,ATF6B,EGFL8,FKBPL,NOTCH4,PBX2,PPT2,PRRT1,RNF5,ENSBTAG00000023563,ENSBTAG00000048304 |
| 23 | 27,000,000 | 27,150,000 | 361 | 1859 | -0.115208888 | AGER,AGPAT1,ATF6B,EGFL8,FKBPL,PBX2,PPT2,PRRT1,RNF5,TNXB,ENSBTAG00000047039 |
| 23 | 27,075,000 | 27,225,000 | 362 | 1854 | -0.224856555 | DOM3Z,NELFE,SKIV2L,STK19,TNXB,ENSBTAG00000001443,ENSBTAG00000006864,ENSBTAG00000037533,ENSBTAG00000047039 |
| 23 | 27,150,000 | 27,300,000 | 363 | 1833 | 0.202860822 | BAT8,C2,CFB,DOM3Z,NELFE,SKIV2L,SLC44A4,STK19,ZBTB12,ENSBTAG00000001443,ENSBTAG00000006864,ENSBTAG00000037533 |
| 23 | 27,225,000 | 27,375,000 | 364 | 1912 | 0.184442668 | BAT8,C2,CFB,HSPA1A,HSPA1L,LSM2,MGC151586,NELFE,NEU1,SLC44A4,VAR5,VWA7,ZBTB12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 27,300,000 | 27,450,000 | 365 | 1827 | 0.080406906 | ABHD16A,C6ORF25,CLIC1,CSNK2B,DDAH2,HSPA1A,HSPA1L,LSM2,LY6G5B,LY6G5C,LY6G6C,LY6G6E,MGC151586,MSH5,NEU1,SLC44A4,VAR5,VWA7,ENSBTAG00000000580,ENSBTAG00000038955 |
| 23 | 27,375,000 | 27,525,000 | 366 | 1787 | 0.313266838 | ABHD16A,AIF1,APOM,BAG6,BAT4,C23H6ORF47,C6ORF25,CLIC1,CSNK2B,DDAH2,LY6G5B,LY6G5C,LY6G6C,LY6G6E,MGC151586,MSH5,NCR3,PRRC2A,ENSBTAG00000000580,ENSBTAG00000038955 |
| 23 | 27,450,000 | 27,600,000 | 367 | 2078 | 0.484776485 | AIF1,APOM,ATP6V1G2,BAG6,BAT4,C23H6ORF47,CSNK2B,DDX39B,LTA,LTB,MCCD1,NCR3,NFKBIL1,PRRC2A,TNF |
| 23 | 27,525,000 | 27,675,000 | 368 | 2305 | 0.207553886 | ATP6V1G2,BOLA,DDX39B,LTA,LTB,MCCD1,NFKBIL1,TNF,ENSBTAG00000008959,ENSBTAG00000010166,ENSBTAG00000031905 |
| 23 | 27,600,000 | 27,750,000 | 369 | 2795 | 0.104417387 | BOLA,ENSBTAG00000001476,ENSBTAG00000008959,ENSBTAG00000010166,ENSBTAG00000012208,ENSBTAG00000031905 |
| 23 | 27,675,000 | 27,825,000 | 370 | 2760 | 0.296551266 | C6orf15,CCHCR1,CDSN,POU5F1,PSORS1C2,TCF19,ENSBTAG00000001476,ENSBTAG00000010166,ENSBTAG00000012208 |
| 23 | 27,750,000 | 27,900,000 | 371 | 2505 | 0.577312194 | BOLA,C6orf15,CCHCR1,CDSN,POU5F1,PSORS1C2,TCF19,ENSBTAG00000007075 |
| 23 | 27,825,000 | 27,975,000 | 372 | 2263 | 0.580429126 | BOLA,GTF2H4,SFTA2,VAR5,ENSBTAG00000007075 |
| 23 | 27,900,000 | 28,050,000 | 373 | 2152 | 0.32133447 | DDR1,GTF2H4,SFTA2,VAR5 |
| 23 | 27,975,000 | 28,125,000 | 374 | 2135 | 0.338831459 | DDR1,FLOT1,IER3,MDC1,NRM,TUBB5 |
| 23 | 28,050,000 | 28,200,000 | 375 | 1572 | 0.592104847 | ABCF1,ATAT1,C6orf136,DHX16,FLOT1,IER3,KIAA1949,MDC1,MRPS18B,NRM,PPP1R10,TUBB5 |
| 23 | 28,125,000 | 28,275,000 | 376 | 1596 | 0.509109926 | ABCF1,ATAT1,C6orf136,DHX16,GNL1,KIAA1949,MDC1,MRPS18B,PPP1R10,PRR3,TRIM39-RPP21 |
| 23 | 28,200,000 | 28,350,000 | 377 | 2234 | 0.441826747 | ABCF1,GNL1,PRR3,TRIM39-RPP21,ENSBTAG00000005146,ENSBTAG00000038619 |
| 23 | 28,275,000 | 28,425,000 | 378 | 3301 | -0.009292144 | BOLA-NC,ENSBTAG00000005146,ENSBTAG00000038619 |
| 23 | 28,350,000 | 28,500,000 | 379 | 3815 | 0.013499777 | BOLA-NC,JSP.1 |
| 23 | 28,425,000 | 28,575,000 | 380 | 3648 | 0.34372129 | BOLA,JSP.1,TRIM26,ENSBTAG00000037421 |
| 23 | 28,500,000 | 28,650,000 | 381 | 3701 | 0.173982765 | BOLA,TRIM10,TRIM15,TRIM26,TRIM40,ENSBTAG00000037421 |
| 23 | 28,575,000 | 28,725,000 | 382 | 3148 | 0.277240802 | PPP1R11,TRIM10,TRIM15,TRIM26,TRIM31,TRIM40,ZNRD1 |
| 23 | 28,650,000 | 28,800,000 | 383 | 2386 | 0.597902672 | GABBR1,MOG,PPP1R11,TRIM31,ZFP57,ZNRD1 |
| 23 | 28,725,000 | 28,875,000 | 384 | 2295 | 0.569739634 | GABBR1,MOG,ZFP57,ENSBTAG00000025398,ENSBTAG00000031825 |
| 23 | 28,800,000 | 28,950,000 | 385 | 2086 | 0.620261603 | GABBR1,UBD,ENSBTAG00000003250,ENSBTAG00000017227,ENSBTAG00000025398,ENSBTAG00000027245,ENSBTAG00000031825 |
| 23 | 28,875,000 | 29,025,000 | 386 | 2406 | 0.398484349 | UBD,ENSBTAG00000003250,ENSBTAG00000012956,ENSBTAG00000017227,ENSBTAG00000027245,ENSBTAG00000031832,ENSBTAG00000045586,ENSBTAG00000046934,ENSBTAG00000047014,ENSBTAG00000047644,ENSBTAG00000048194 |
| 23 | 28,950,000 | 29,100,000 | 387 | 3220 | 0.410998781 | ENSBTAG00000012956,ENSBTAG00000031832,ENSBTAG00000031835,ENSBTAG00000039390,ENSBTAG00000045586,ENSBTAG00000046892,ENSBTAG00000046934,ENSBTAG00000047014,ENSBTAG00000047644,ENSBTAG00000047763,ENSBTAG00000047829,ENSBTAG00000048019,ENSBTAG00000048194 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 29,025,000 | 29,175,000 | 388 | 3111 | 0.629103729 | OR12D2,OR12D3,ENSBTAG00000031835,ENSBTAG00000039116,ENSBTAG00000039390,ENSBTAG00000039683,ENSBTAG00000046892,ENSBTAG00000047763,ENSBTAG00000047829,ENSBTAG00000048019 |
| 23 | 29,100,000 | 29,250,000 | 389 | 2588 | 0.621611237 | OR12D2,OR12D3,OR14J1,OR5V1,ENSBTAG00000031843,ENSBTAG00000039116,ENSBTAG00000039534,ENSBTAG00000039683,ENSBTAG00000039901 |
| 23 | 29,175,000 | 29,325,000 | 390 | 2810 | 0.122189846 | OR14J1,OR5V1,ENSBTAG00000031843,ENSBTAG00000038608,ENSBTAG00000039534,ENSBTAG00000039901,ENSBTAG00000046023,ENSBTAG00000046777,ENSBTAG00000047086 |
| 23 | 29,250,000 | 29,400,000 | 391 | 2801 | 0.382690013 | ENSBTAG0000000228,ENSBTAG00000031850,ENSBTAG00000037628,ENSBTAG00000038608,ENSBTAG00000046023,ENSBTAG00000046777,ENSBTAG00000047086 |
| 23 | 29,325,000 | 29,475,000 | 392 | 2162 | 0.133830308 | ENSBTAG0000000228,ENSBTAG00000006339,ENSBTAG00000027955,ENSBTAG00000031850,ENSBTAG00000037628,ENSBTAG00000040582 |
| 23 | 29,400,000 | 29,550,000 | 393 | 1710 | -1.711248325 | ENSBTAG00000006339,ENSBTAG00000027955,ENSBTAG00000038562,ENSBTAG00000038928,ENSBTAG00000040280,ENSBTAG00000040582,ENSBTAG00000047558 |
| 23 | 29,475,000 | 29,625,000 | 394 | 1656 | -1.677671698 | ENSBTAG00000037577,ENSBTAG00000038444,ENSBTAG00000038562,ENSBTAG00000038928,ENSBTAG00000039052,ENSBTAG00000040064,ENSBTAG00000040280,ENSBTAG00000047558,ENSBTAG00000047736 |
| 23 | 29,550,000 | 29,700,000 | 395 | 1315 | -0.701696147 | ENSBTAG00000015175,ENSBTAG00000037577,ENSBTAG00000038444,ENSBTAG00000039052,ENSBTAG00000040026,ENSBTAG00000040064,ENSBTAG00000040187,ENSBTAG00000040457,ENSBTAG00000047736 |
| 23 | 29,625,000 | 29,775,000 | 396 | 844 | 0.345795922 | ENSBTAG00000000214,ENSBTAG00000015175,ENSBTAG00000040026,ENSBTAG00000040187,ENSBTAG00000040457 |
| 23 | 29,700,000 | 29,850,000 | 397 | 1292 | 0.213751474 | ENSBTAG00000000214,ENSBTAG00000047585 |
| 23 | 29,775,000 | 29,925,000 | 398 | 1736 | 0.239160291 | TRIM27,ZNF311,ENSBTAG00000047585 |
| 23 | 29,850,000 | 30,000,000 | 399 | 1696 | 0.147318671 | TRIM27,ZNF311 |
| 23 | 29,925,000 | 30,075,000 | 400 | 1752 | 0.083985028 | ENSBTAG00000038782 |
| 23 | 30,000,000 | 30,150,000 | 401 | 2035 | 0.375211032 | PGBD1,ZNF323,ZSCAN12,ENSBTAG00000038782 |
| 23 | 30,075,000 | 30,225,000 | 402 | 2115 | -0.063171003 | NKAPL,PGBD1,ZNF323,ZSCAN12,ZSCAN26,ZSCAN9,ENSBTAG00000003575 |
| 23 | 30,150,000 | 30,300,000 | 403 | 1991 | 0.078032983 | NKAPL,PGBD1,ZNF192,ZSCAN26,ZSCAN9,ENSBTAG00000002641,ENSBTAG00000003575 |
| 23 | 30,225,000 | 30,375,000 | 404 | 2156 | 0.134436988 | ZNF165,ZNF192,ZSCAN16,ENSBTAG00000002641,ENSBTAG00000013384 |
| 23 | 30,300,000 | 30,450,000 | 405 | 1959 | 0.059783479 | ZNF165,ZSCAN16,ENSBTAG00000013384,ENSBTAG00000038908,ENSBTAG00000039079 |
| 23 | 30,375,000 | 30,525,000 | 406 | 2052 | 0.582561841 | ENSBTAG000000031881,ENSBTAG00000038908,ENSBTAG00000038983,ENSBTAG00000039079,ENSBTAG00000040454,ENSBTAG00000040583 |
| 23 | 30,450,000 | 30,600,000 | 407 | 2580 | 0.129420471 | ENSBTAG00000005885,ENSBTAG00000031881,ENSBTAG00000038983,ENSBTAG00000040171,ENSBTAG00000040307,ENSBTAG00000040454,ENSBTAG00000040583 |
| 23 | 30,525,000 | 30,675,000 | 408 | 2552 | -0.304594838 | OR2B6,ENSBTAG00000005885,ENSBTAG00000038597,ENSBTAG00000039145,ENSBTAG00000040171,ENSBTAG00000040307 |

| | | | | | | |
|----|------------|------------|-----|------|-------------|---|
| 23 | 30,600,000 | 30,750,000 | 409 | 2078 | 0.133643618 | H2B,HIST1H2AD,HIST1H2AG,HIST1H3B,HIST1H3F,HIST1H4D,OR2B6,ENSBTAG00000024179,ENSBTAG00000038597,ENSBTAG00000039145,ENSBTAG00000039274 |
| 23 | 30,675,000 | 30,825,000 | 410 | 1705 | 0.035610433 | H2B,HIST1H2AD,HIST1H2AG,HIST1H2AJ,HIST1H3B,HIST1H3F,HIST1H4D,ENSBTAG00000024175,ENSBTAG00000024178,ENSBTAG00000024179,ENSBTAG00000039274 |
| 23 | 30,750,000 | 30,900,000 | 411 | 1700 | 0.243840241 | H2B,HIST1H2AG,HIST1H2AJ,ENSBTAG00000024175,ENSBTAG00000024178 |
| 23 | 30,825,000 | 30,975,000 | 412 | 1375 | 1.058155798 | ZNF184 |
| 23 | 30,900,000 | 31,050,000 | 413 | 1150 | 1.292324466 | POM121L2,ZNF184,ZNF391 |
| 23 | 30,975,000 | 31,125,000 | 414 | 1329 | 1.150067579 | HIST1H2AG,HIST1H2BJ,POM121L2,PRSS16,ZNF184,ZNF391,ENSBTAG00000038173,ENSBTAG00000046096 |
| 23 | 31,050,000 | 31,200,000 | 415 | 1515 | 1.017132904 | HIST1H2AG,HIST1H2BJ,PRSS16,ENSBTAG00000038173,ENSBTAG00000046096 |
| 23 | 31,125,000 | 31,275,000 | 416 | 1461 | 0.959217463 | HIST1H2BJ,MGC157324,ENSBTAG00000027547,ENSBTAG00000037597 |
| 23 | 31,200,000 | 31,350,000 | 417 | 1382 | 1.073060328 | ABT1,HMGN4,MGC157324,ENSBTAG00000010852,ENSBTAG00000027547,ENSBTAG00000037597 |
| 23 | 31,275,000 | 31,425,000 | 418 | 1384 | 0.9630345 | ABT1,BTN1A1,HMGN4,ENSBTAG00000010852 |
| 23 | 31,350,000 | 31,500,000 | 419 | 1304 | 0.387480074 | BTN1A1,H2B,HIST1H1D,HIST1H2AG,HIST1H3A,HIST1H3G,HIST2H4B,ENSBTAG00000010852,ENSBTAG00000031762,ENSBTAG00000031763,ENSBTAG00000031766 |
| 23 | 31,425,000 | 31,575,000 | 420 | 1357 | 0.739227835 | H2B,HIST1H1D,HIST1H1E,HIST1H2AG,HIST1H2BI,HIST1H3A,HIST1H3G,HIST2H4B,ENSBTAG00000031762,ENSBTAG00000031763,ENSBTAG00000031766,ENSBTAG00000031768,ENSBTAG00000040277 |
| 23 | 31,500,000 | 31,650,000 | 421 | 1308 | 1.162944893 | H2B,HFE,HIST1H1C,HIST1H1E,HIST1H2AC,HIST1H2AG,HIST1H2BB,HIST1H2BI,ENSBTAG00000025391,ENSBTAG00000031717,ENSBTAG00000031768,ENSBTAG00000040277 |
| 23 | 31,575,000 | 31,725,000 | 422 | 1294 | 1.002251541 | H2B,HFE,HIST1H1A,HIST1H1C,HIST1H2AC,HIST1H2BB,HIST1H3D,HIST1H3I,HIST2H4A,SLC17A2,TRIM38,ENSBTAG00000025391,ENSBTAG00000031717,ENSBTAG00000031719,ENSBTAG00000031738 |
| 23 | 31,650,000 | 31,800,000 | 423 | 1239 | 0.868660307 | HIST1H1A,HIST1H3D,HIST1H3I,HIST2H4A,SLC17A1,SLC17A2,SLC17A3,TRIM38,ENSBTAG00000031719,ENSBTAG00000031738 |
| 23 | 31,725,000 | 31,875,000 | 424 | 874 | 0.144291209 | SLC17A1,SLC17A2,SLC17A3,SLC17A4 |
| 23 | 31,800,000 | 31,950,000 | 425 | 931 | 0.053079982 | HIST1H2BA,SLC17A1,SLC17A4,ENSBTAG00000046992,ENSBTAG00000048235 |
| 23 | 31,875,000 | 32,025,000 | 426 | 1348 | 0.309375166 | HIST1H2BA,SCGN,ENSBTAG00000046992,ENSBTAG00000048235 |
| 23 | 31,950,000 | 32,100,000 | 427 | 1829 | 0.383564187 | LRRC16A,SCGN |
| 23 | 32,025,000 | 32,175,000 | 428 | 2118 | 0.498993215 | LRRC16A |
| 23 | 32,100,000 | 32,250,000 | 429 | 2194 | 0.763327276 | LRRC16A |
| 23 | 32,175,000 | 32,325,000 | 430 | 2004 | 0.989065625 | LRRC16A,ENSBTAG00000038783 |
| 23 | 32,250,000 | 32,400,000 | 431 | 1520 | 1.004095727 | LRRC16A,ENSBTAG00000038783 |
| 23 | 32,325,000 | 32,475,000 | 432 | 1439 | 0.067073727 | LRRC16A,ENSBTAG00000003892 |
| 23 | 32,400,000 | 32,550,000 | 433 | 1478 | 0.14857867 | ENSBTAG00000003892 |
| 23 | 32,475,000 | 32,625,000 | 434 | 1519 | 0.920247642 | ENSBTAG00000003892 |
| 23 | 32,550,000 | 32,700,000 | 435 | 1405 | 0.955159101 | FAM65B |
| 23 | 32,625,000 | 32,775,000 | 436 | 1342 | 0.730968707 | FAM65B |
| 23 | 32,700,000 | 32,850,000 | 437 | 1121 | 0.405074499 | C23H6ORF62,FAM65B,GMNN,TDP2,THEM2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 32,775,000 | 32,925,000 | 438 | 739 | 0.052632524 | C23H6ORF62,GMNN,KIAA0319,TDP2,THEM2 |
| 23 | 32,850,000 | 33,000,000 | 439 | 1178 | 0.428705347 | ALDH5A1,GPLD1,KIAA0319,TDP2 |
| 23 | 32,925,000 | 33,075,000 | 440 | 1446 | 0.619368159 | ALDH5A1,GPLD1,KIAA0319,MRS2 |
| 23 | 33,000,000 | 33,150,000 | 441 | 1167 | 0.33372215 | DCDC2,GPLD1,MRS2 |
| 23 | 33,075,000 | 33,225,000 | 442 | 1184 | 0.235735296 | DCDC2,MRS2 |
| 23 | 33,150,000 | 33,300,000 | 443 | 1246 | -0.228332746 | DCDC2,NRSN1 |
| 23 | 33,225,000 | 33,375,000 | 444 | 1088 | -0.945649419 | DCDC2,NRSN1 |
| 23 | 33,300,000 | 33,450,000 | 445 | 962 | -0.613435193 | |
| 23 | 33,375,000 | 33,525,000 | 446 | 1082 | 0.087754796 | |
| 23 | 33,450,000 | 33,600,000 | 447 | 1078 | 0.368953375 | |
| 23 | 33,525,000 | 33,675,000 | 448 | 1097 | 0.34436681 | |
| 23 | 33,600,000 | 33,750,000 | 449 | 1004 | 0.512972282 | |
| 23 | 33,675,000 | 33,825,000 | 450 | 765 | 0.643705119 | |
| 23 | 33,750,000 | 33,900,000 | 451 | 612 | 0.739344781 | |
| 23 | 33,825,000 | 33,975,000 | 452 | 471 | 1.059287444 | |
| 23 | 33,900,000 | 34,050,000 | 453 | 720 | 0.840893121 | |
| 23 | 33,975,000 | 34,125,000 | 454 | 1114 | 0.421495784 | |
| 23 | 34,050,000 | 34,200,000 | 455 | 1008 | 0.284316113 | |
| 23 | 34,125,000 | 34,275,000 | 456 | 1018 | -0.717030232 | |
| 23 | 34,200,000 | 34,350,000 | 457 | 1222 | -0.242598336 | |
| 23 | 34,275,000 | 34,425,000 | 458 | 1114 | 0.167386339 | PRP5 |
| 23 | 34,350,000 | 34,500,000 | 459 | 959 | 0.283795746 | PRP5,PRP6,PRP8 |
| 23 | 34,425,000 | 34,575,000 | 460 | 911 | 0.822727527 | PRP1,PRP6,PRP8 |
| 23 | 34,500,000 | 34,650,000 | 461 | 748 | 0.606648667 | PRP1,ENSBTAG00000038718,ENSBTAG00000047671 |
| 23 | 34,575,000 | 34,725,000 | 462 | 619 | -0.481734878 | PRP14,PRP9,ENSBTAG00000036106,ENSBTAG00000038718,ENSBTAG00000047671 |
| 23 | 34,650,000 | 34,800,000 | 463 | 625 | -0.541300756 | PRP14,PRP9,ENSBTAG00000036106,ENSBTAG00000047671 |
| 23 | 34,725,000 | 34,875,000 | 464 | 604 | 0.701455452 | PRP7,PRP9,ENSBTAG00000031640 |
| 23 | 34,800,000 | 34,950,000 | 465 | 885 | 0.782522199 | PRP7,ENSBTAG00000031640 |
| 23 | 34,875,000 | 35,025,000 | 466 | 911 | 0.642044927 | ENSBTAG00000040136 |
| 23 | 34,950,000 | 35,100,000 | 467 | 836 | 0.778180071 | CSH1,ENSBTAG00000040136 |
| 23 | 35,025,000 | 35,175,000 | 468 | 757 | 0.711129065 | CSH1,PRL |
| 23 | 35,100,000 | 35,250,000 | 469 | 764 | 0.780894371 | PRL |
| 23 | 35,175,000 | 35,325,000 | 470 | 809 | 0.286557399 | |
| 23 | 35,250,000 | 35,400,000 | 471 | 612 | -0.459571542 | |
| 23 | 35,325,000 | 35,475,000 | 472 | 512 | -1.110831056 | HDGFL1 |
| 23 | 35,400,000 | 35,550,000 | 473 | 559 | -1.035729033 | HDGFL1 |
| 23 | 35,475,000 | 35,625,000 | 474 | 827 | 0.675805575 | |
| 23 | 35,550,000 | 35,700,000 | 475 | 713 | 0.911779099 | |
| 23 | 35,625,000 | 35,775,000 | 476 | 369 | 0.543678134 | |
| 23 | 35,700,000 | 35,850,000 | 477 | 468 | 0.068135189 | |
| 23 | 35,775,000 | 35,925,000 | 478 | 685 | 0.314867319 | |
| 23 | 35,850,000 | 36,000,000 | 479 | 701 | 0.522772282 | |
| 23 | 35,925,000 | 36,075,000 | 480 | 506 | 0.040179097 | |
| 23 | 36,000,000 | 36,150,000 | 481 | 295 | -0.221346733 | |
| 23 | 36,075,000 | 36,225,000 | 482 | 227 | 0.303430415 | |
| 23 | 36,150,000 | 36,300,000 | 483 | 462 | 0.506239051 | SOX4 |
| 23 | 36,225,000 | 36,375,000 | 484 | 751 | 0.842252915 | SOX4 |
| 23 | 36,300,000 | 36,450,000 | 485 | 790 | 1.048624705 | |
| 23 | 36,375,000 | 36,525,000 | 486 | 824 | 0.790182649 | |
| 23 | 36,450,000 | 36,600,000 | 487 | 889 | -0.063603839 | |
| 23 | 36,525,000 | 36,675,000 | 488 | 1033 | 0.059696173 | CDKAL1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 23 | 36,600,000 | 36,750,000 | 489 | 1152 | 0.793175543 | CDKAL1 |
| 23 | 36,675,000 | 36,825,000 | 490 | 929 | 0.812050054 | CDKAL1 |
| 23 | 36,750,000 | 36,900,000 | 491 | 606 | 0.317995452 | CDKAL1 |
| 23 | 36,825,000 | 36,975,000 | 492 | 596 | -0.123496711 | CDKAL1 |
| 23 | 36,900,000 | 37,050,000 | 493 | 835 | -0.2760725 | CDKAL1 |
| 23 | 36,975,000 | 37,125,000 | 494 | 977 | -1.20054967 | CDKAL1 |
| 23 | 37,050,000 | 37,200,000 | 495 | 996 | -0.694645745 | CDKAL1 |
| 23 | 37,125,000 | 37,275,000 | 496 | 926 | 0.415907789 | CDKAL1,E2F3 |
| 23 | 37,200,000 | 37,350,000 | 497 | 1062 | -0.985155593 | CDKAL1,E2F3 |
| 23 | 37,275,000 | 37,425,000 | 498 | 1266 | -0.40560209 | E2F3 |
| 23 | 37,350,000 | 37,500,000 | 499 | 908 | 0.147451201 | MBOAT1 |
| 23 | 37,425,000 | 37,575,000 | 500 | 806 | 0.152054982 | MBOAT1 |
| 23 | 37,500,000 | 37,650,000 | 501 | 1186 | 0.83893361 | MBOAT1 |
| 23 | 37,575,000 | 37,725,000 | 502 | 1129 | 1.169690018 | MBOAT1 |
| 23 | 37,650,000 | 37,800,000 | 503 | 622 | 1.336465906 | |
| 23 | 37,725,000 | 37,875,000 | 504 | 461 | 1.101046126 | |
| 23 | 37,800,000 | 37,950,000 | 505 | 522 | 0.653702777 | |
| 23 | 37,875,000 | 38,025,000 | 506 | 665 | -0.148929242 | |
| 23 | 37,950,000 | 38,100,000 | 507 | 1030 | 0.338875584 | |
| 23 | 38,025,000 | 38,175,000 | 508 | 1392 | 0.808021873 | |
| 23 | 38,100,000 | 38,250,000 | 509 | 1608 | 1.072841178 | |
| 23 | 38,175,000 | 38,325,000 | 510 | 1113 | 1.330275049 | |
| 23 | 38,250,000 | 38,400,000 | 511 | 792 | 1.235022024 | |
| 23 | 38,325,000 | 38,475,000 | 512 | 1064 | 1.073327922 | |
| 23 | 38,400,000 | 38,550,000 | 513 | 917 | 0.745043689 | |
| 23 | 38,475,000 | 38,625,000 | 514 | 767 | -0.019559669 | |
| 23 | 38,550,000 | 38,700,000 | 515 | 1112 | 0.003265597 | |
| 23 | 38,625,000 | 38,775,000 | 516 | 1186 | 0.451702426 | |
| 23 | 38,700,000 | 38,850,000 | 517 | 694 | 0.535307509 | |
| 23 | 38,775,000 | 38,925,000 | 518 | 776 | -0.338663523 | |
| 23 | 38,850,000 | 39,000,000 | 519 | 1032 | 0.234174544 | RNF144B |
| 23 | 38,925,000 | 39,075,000 | 520 | 840 | 0.875076794 | RNF144B |
| 23 | 39,000,000 | 39,150,000 | 521 | 607 | 0.724444271 | DEK,RNF144B |
| 23 | 39,075,000 | 39,225,000 | 522 | 368 | 0.763694655 | DEK,KDM1B,TPMT |
| 23 | 39,150,000 | 39,300,000 | 523 | 497 | 0.776953963 | DEK,KDM1B,NHLRC1,TPMT |
| 23 | 39,225,000 | 39,375,000 | 524 | 821 | 0.398837612 | NHLRC1,TPMT |
| 23 | 39,300,000 | 39,450,000 | 525 | 1043 | 0.607190575 | KIF13A |
| 23 | 39,375,000 | 39,525,000 | 526 | 897 | 0.809539453 | KIF13A |
| 23 | 39,450,000 | 39,600,000 | 527 | 585 | 0.323497094 | KIF13A,NUP153 |
| 23 | 39,525,000 | 39,675,000 | 528 | 529 | 0.10517147 | CAP2,FAM8A1,NUP153 |
| 23 | 39,600,000 | 39,750,000 | 529 | 607 | 0.169291923 | CAP2,FAM8A1,NUP153 |
| 23 | 39,675,000 | 39,825,000 | 530 | 497 | -0.104585454 | CAP2 |
| 23 | 39,750,000 | 39,900,000 | 531 | 642 | -0.575847962 | CAP2,RBM24 |
| 23 | 39,825,000 | 39,975,000 | 532 | 767 | -0.50775985 | RBM24,STMND1 |
| 23 | 39,900,000 | 40,050,000 | 533 | 496 | -0.018106802 | STMND1 |
| 23 | 39,975,000 | 40,125,000 | 534 | 479 | 0.073424889 | |
| 23 | 40,050,000 | 40,200,000 | 535 | 584 | 0.448251156 | |
| 23 | 40,125,000 | 40,275,000 | 536 | 489 | 0.928464511 | |
| 23 | 40,200,000 | 40,350,000 | 537 | 451 | 0.227794197 | |
| 23 | 40,275,000 | 40,425,000 | 538 | 687 | 0.100583061 | |
| 23 | 40,350,000 | 40,500,000 | 539 | 683 | 0.233587728 | |
| 23 | 40,425,000 | 40,575,000 | 540 | 515 | 0.390521712 | |
| 23 | 40,500,000 | 40,650,000 | 541 | 659 | -0.207662902 | ATXN1,GMPR,ENSBTAG00000019672 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 23 | 40,575,000 | 40,725,000 | 542 | 1136 | -0.149615684 | ATXN1,GMPR,ENSBTAG00000019672 |
| 23 | 40,650,000 | 40,800,000 | 543 | 1143 | -0.323576802 | GMPR,MYLIP |
| 23 | 40,725,000 | 40,875,000 | 544 | 967 | -0.250002901 | MYLIP |
| 23 | 40,800,000 | 40,950,000 | 545 | 1185 | 0.628656094 | |
| 23 | 40,875,000 | 41,025,000 | 546 | 1500 | -0.558939385 | |
| 23 | 40,950,000 | 41,100,000 | 547 | 1515 | -1.305224815 | DTNBP1 |
| 23 | 41,025,000 | 41,175,000 | 548 | 1213 | -0.572501838 | DTNBP1,JARID2 |
| 23 | 41,100,000 | 41,250,000 | 549 | 859 | 0.374258382 | DTNBP1,JARID2 |
| 23 | 41,175,000 | 41,325,000 | 550 | 537 | 1.003869459 | JARID2 |
| 23 | 41,250,000 | 41,400,000 | 551 | 406 | 0.706033897 | JARID2 |
| 23 | 41,325,000 | 41,475,000 | 552 | 509 | 0.979978824 | |
| 23 | 41,400,000 | 41,550,000 | 553 | 884 | 0.662459024 | |
| 23 | 41,475,000 | 41,625,000 | 554 | 853 | 0.45362562 | |
| 23 | 41,550,000 | 41,700,000 | 555 | 477 | 0.511214839 | |
| 23 | 41,625,000 | 41,775,000 | 556 | 330 | 0.631493875 | |
| 23 | 41,700,000 | 41,850,000 | 557 | 367 | 0.755768978 | |
| 23 | 41,775,000 | 41,925,000 | 558 | 485 | 0.54318621 | |
| 23 | 41,850,000 | 42,000,000 | 559 | 778 | 0.421333485 | |
| 23 | 41,925,000 | 42,075,000 | 560 | 823 | -0.006464356 | |
| 23 | 42,000,000 | 42,150,000 | 561 | 972 | 0.303560644 | |
| 23 | 42,075,000 | 42,225,000 | 562 | 1172 | 0.438543633 | |
| 23 | 42,150,000 | 42,300,000 | 563 | 696 | 0.192945589 | |
| 23 | 42,225,000 | 42,375,000 | 564 | 607 | -0.06457883 | CD83 |
| 23 | 42,300,000 | 42,450,000 | 565 | 942 | 0.566448626 | CD83 |
| 23 | 42,375,000 | 42,525,000 | 566 | 1075 | 0.548417075 | RNF182 |
| 23 | 42,450,000 | 42,600,000 | 567 | 1008 | -0.763245868 | CCDC90A,RNF182 |
| 23 | 42,525,000 | 42,675,000 | 568 | 1154 | -0.728987854 | CCDC90A |
| 23 | 42,600,000 | 42,750,000 | 569 | 1243 | -0.471717231 | RANBP9 |
| 23 | 42,675,000 | 42,825,000 | 570 | 912 | -0.804987186 | NOL7,RANBP9,SIRT5 |
| 23 | 42,750,000 | 42,900,000 | 571 | 717 | -0.923794001 | NOL7,RANBP9,SIRT5 |
| 23 | 42,825,000 | 42,975,000 | 572 | 512 | -0.654430926 | SIRT5 |
| 23 | 42,900,000 | 43,050,000 | 573 | 439 | -0.271100902 | TBC1D7 |
| 23 | 42,975,000 | 43,125,000 | 574 | 649 | -0.814289916 | PHACTR1,TBC1D7 |
| 23 | 43,050,000 | 43,200,000 | 575 | 1204 | -0.196905044 | PHACTR1 |
| 23 | 43,125,000 | 43,275,000 | 576 | 1543 | 0.260190922 | PHACTR1 |
| 23 | 43,200,000 | 43,350,000 | 577 | 1512 | 0.767022309 | PHACTR1 |
| 23 | 43,275,000 | 43,425,000 | 578 | 1366 | 0.628697707 | PHACTR1 |
| 23 | 43,350,000 | 43,500,000 | 579 | 1531 | -0.646961183 | PHACTR1 |
| 23 | 43,425,000 | 43,575,000 | 580 | 1845 | -0.533380874 | PHACTR1 |
| 23 | 43,500,000 | 43,650,000 | 581 | 1492 | 0.090344854 | PHACTR1 |
| 23 | 43,575,000 | 43,725,000 | 582 | 1344 | 0.655027801 | PHACTR1 |
| 23 | 43,650,000 | 43,800,000 | 583 | 1551 | 0.576479897 | |
| 23 | 43,725,000 | 43,875,000 | 584 | 1500 | 0.287229741 | |
| 23 | 43,800,000 | 43,950,000 | 585 | 1493 | 0.611883591 | |
| 23 | 43,875,000 | 44,025,000 | 586 | 1455 | 0.852634605 | EDN1 |
| 23 | 43,950,000 | 44,100,000 | 587 | 1248 | 0.647246418 | EDN1 |
| 23 | 44,025,000 | 44,175,000 | 588 | 1214 | 0.495436701 | HIVEP1 |
| 23 | 44,100,000 | 44,250,000 | 589 | 1179 | 0.408733486 | HIVEP1 |
| 23 | 44,175,000 | 44,325,000 | 590 | 993 | 0.054761216 | HIVEP1 |
| 23 | 44,250,000 | 44,400,000 | 591 | 955 | -0.002757158 | |
| 23 | 44,325,000 | 44,475,000 | 592 | 1158 | 0.004926914 | C23H6ORF105 |
| 23 | 44,400,000 | 44,550,000 | 593 | 1015 | -0.267959115 | C23H6ORF105 |
| 23 | 44,475,000 | 44,625,000 | 594 | 726 | -0.575809064 | C23H6ORF105 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 44,550,000 | 44,700,000 | 595 | 621 | -0.268006171 | TMEM170B |
| 23 | 44,625,000 | 44,775,000 | 596 | 514 | -0.338320845 | TMEM170B |
| 23 | 44,700,000 | 44,850,000 | 597 | 534 | -0.782250813 | |
| 23 | 44,775,000 | 44,925,000 | 598 | 534 | -0.146931647 | NEDD9 |
| 23 | 44,850,000 | 45,000,000 | 599 | 594 | 0.457293055 | NEDD9 |
| 23 | 44,925,000 | 45,075,000 | 600 | 606 | 0.460536434 | NEDD9,SMIM13 |
| 23 | 45,000,000 | 45,150,000 | 601 | 693 | 0.03475036 | ELOVL2,SMIM13,SYCP2L |
| 23 | 45,075,000 | 45,225,000 | 602 | 656 | -0.139135897 | ELOVL2,GCM2,MAK,SYCP2L |
| 23 | 45,150,000 | 45,300,000 | 603 | 590 | -0.136584253 | GCM2,MAK,PAK1IP1,SYCP2L,TMEM14C |
| 23 | 45,225,000 | 45,375,000 | 604 | 881 | 0.067593057 | GCNT2,MAK,PAK1IP1,TMEM14C |
| 23 | 45,300,000 | 45,450,000 | 605 | 1011 | -0.508650643 | GCNT2 |
| 23 | 45,375,000 | 45,525,000 | 606 | 726 | -1.319499426 | TFAP2A |
| 23 | 45,450,000 | 45,600,000 | 607 | 569 | -1.546677424 | TFAP2A |
| 23 | 45,525,000 | 45,675,000 | 608 | 690 | -0.54869304 | |
| 23 | 45,600,000 | 45,750,000 | 609 | 805 | -0.592209118 | |
| 23 | 45,675,000 | 45,825,000 | 610 | 1177 | -0.144349864 | |
| 23 | 45,750,000 | 45,900,000 | 611 | 1154 | 0.58431157 | OFCC1 |
| 23 | 45,825,000 | 45,975,000 | 612 | 702 | 0.631059632 | OFCC1 |
| 23 | 45,900,000 | 46,050,000 | 613 | 788 | -0.197628792 | |
| 23 | 45,975,000 | 46,125,000 | 614 | 907 | 0.216670447 | |
| 23 | 46,050,000 | 46,200,000 | 615 | 884 | -0.089158719 | |
| 23 | 46,125,000 | 46,275,000 | 616 | 885 | -0.637349341 | |
| 23 | 46,200,000 | 46,350,000 | 617 | 705 | -0.283974936 | |
| 23 | 46,275,000 | 46,425,000 | 618 | 769 | 0.219732141 | |
| 23 | 46,350,000 | 46,500,000 | 619 | 896 | 0.318281039 | |
| 23 | 46,425,000 | 46,575,000 | 620 | 1047 | 0.209305659 | |
| 23 | 46,500,000 | 46,650,000 | 621 | 1194 | 0.380321288 | |
| 23 | 46,575,000 | 46,725,000 | 622 | 1156 | 0.699945563 | |
| 23 | 46,650,000 | 46,800,000 | 623 | 991 | 0.443913823 | |
| 23 | 46,725,000 | 46,875,000 | 624 | 845 | 0.360911305 | |
| 23 | 46,800,000 | 46,950,000 | 625 | 762 | 0.658583796 | |
| 23 | 46,875,000 | 47,025,000 | 626 | 939 | 0.88941995 | SLC35B3 |
| 23 | 46,950,000 | 47,100,000 | 627 | 889 | 0.692238465 | SLC35B3 |
| 23 | 47,025,000 | 47,175,000 | 628 | 574 | 0.074570972 | SLC35B3 |
| 23 | 47,100,000 | 47,250,000 | 629 | 677 | -0.299163435 | BLOC1S5,EEF1E1 |
| 23 | 47,175,000 | 47,325,000 | 630 | 746 | -0.075290586 | BLOC1S5,EEF1E1 |
| 23 | 47,250,000 | 47,400,000 | 631 | 604 | 0.186989427 | BLOC1S5,BMP6,TXNDC5,ENSBTAG00000046839 |
| 23 | 47,325,000 | 47,475,000 | 632 | 592 | 0.997849097 | BMP6,TXNDC5,ENSBTAG00000046839 |
| 23 | 47,400,000 | 47,550,000 | 633 | 446 | 1.229143106 | BMP6 |
| 23 | 47,475,000 | 47,625,000 | 634 | 480 | 0.926489683 | BMP6,ENSBTAG00000008517 |
| 23 | 47,550,000 | 47,700,000 | 635 | 851 | 0.745262282 | DSP,SNRNP48,ENSBTAG00000008517 |
| 23 | 47,625,000 | 47,775,000 | 636 | 1460 | 0.287088807 | DSP,SNRNP48 |
| 23 | 47,700,000 | 47,850,000 | 637 | 1481 | -0.330306252 | CAGE1,DSP,RIOK1 |
| 23 | 47,775,000 | 47,925,000 | 638 | 818 | -1.182308347 | CAGE1,RIOK1,RREB1,SSR1 |
| 23 | 47,850,000 | 48,000,000 | 639 | 557 | -0.422743223 | RREB1,SSR1 |
| 23 | 47,925,000 | 48,075,000 | 640 | 524 | 0.385837154 | RREB1 |
| 23 | 48,000,000 | 48,150,000 | 641 | 820 | -0.262419017 | |
| 23 | 48,075,000 | 48,225,000 | 642 | 958 | -0.060193375 | |
| 23 | 48,150,000 | 48,300,000 | 643 | 784 | 0.965810748 | |
| 23 | 48,225,000 | 48,375,000 | 644 | 649 | 1.15891674 | |
| 23 | 48,300,000 | 48,450,000 | 645 | 779 | 0.739547459 | LY86 |
| 23 | 48,375,000 | 48,525,000 | 646 | 878 | 0.285041795 | LY86 |
| 23 | 48,450,000 | 48,600,000 | 647 | 886 | -0.93434617 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 48,525,000 | 48,675,000 | 648 | 1130 | -0.533429403 | F13A1 |
| 23 | 48,600,000 | 48,750,000 | 649 | 1403 | 0.315952268 | F13A1 |
| 23 | 48,675,000 | 48,825,000 | 650 | 1324 | 0.438728827 | F13A1 |
| 23 | 48,750,000 | 48,900,000 | 651 | 964 | 0.289160858 | F13A1,NRN1 |
| 23 | 48,825,000 | 48,975,000 | 652 | 1250 | 0.678032721 | FARS2,NRN1,ENSBTAG00000010640 |
| 23 | 48,900,000 | 49,050,000 | 653 | 1056 | 0.880909731 | FARS2,ENSBTAG00000010640 |
| 23 | 48,975,000 | 49,125,000 | 654 | 822 | 0.728661735 | FARS2 |
| 23 | 49,050,000 | 49,200,000 | 655 | 1222 | 0.656189333 | FARS2 |
| 23 | 49,125,000 | 49,275,000 | 656 | 1174 | 0.489271832 | FARS2 |
| 23 | 49,200,000 | 49,350,000 | 657 | 1407 | 0.865240855 | FARS2,LYRM4 |
| 23 | 49,275,000 | 49,425,000 | 658 | 1354 | 0.612877954 | LYRM4,PPP1R3G,RPP40 |
| 23 | 49,350,000 | 49,500,000 | 659 | 899 | -0.377659812 | CDYL,LYRM4,PPP1R3G,RPP40 |
| 23 | 49,425,000 | 49,575,000 | 660 | 976 | 0.375157879 | CDYL |
| 23 | 49,500,000 | 49,650,000 | 661 | 1031 | 0.701832865 | CDYL |
| 23 | 49,575,000 | 49,725,000 | 662 | 912 | 0.501466632 | CDYL |
| 23 | 49,650,000 | 49,800,000 | 663 | 903 | 0.200594631 | |
| 23 | 49,725,000 | 49,875,000 | 664 | 928 | 0.166533097 | |
| 23 | 49,800,000 | 49,950,000 | 665 | 836 | -0.006312738 | C6orf201,FAM217A,PECI |
| 23 | 49,875,000 | 50,025,000 | 666 | 573 | -0.044445819 | C6orf201,FAM217A,PECI,PRPF4B |
| 23 | 49,950,000 | 50,100,000 | 667 | 819 | 0.457016315 | PRPF4B,PXDC1 |
| 23 | 50,025,000 | 50,175,000 | 668 | 805 | -0.010793701 | PXDC1 |
| 23 | 50,100,000 | 50,250,000 | 669 | 753 | -1.19575214 | SLC22A23 |
| 23 | 50,175,000 | 50,325,000 | 670 | 1155 | -0.366321727 | SLC22A23 |
| 23 | 50,250,000 | 50,400,000 | 671 | 910 | -0.161371498 | BPHL,PSMG4,SLC22A23,TUBB2B |
| 23 | 50,325,000 | 50,475,000 | 672 | 475 | -0.455944543 | BPHL,PSMG4,RIPK1,TUBB2B |
| 23 | 50,400,000 | 50,550,000 | 673 | 487 | 0.362140808 | BPHL,NQO2,RIPK1,ENSBTAG00000017483 |
| 23 | 50,475,000 | 50,625,000 | 674 | 714 | 0.592798397 | NQO2,ENSBTAG00000017483,ENSBTAG00000017949,ENSBTAG00000025280 |
| 23 | 50,550,000 | 50,700,000 | 675 | 622 | 0.24990147 | SERPINB1,SERPINB9,ENSBTAG00000017949,ENSBTAG00000025280 |
| 23 | 50,625,000 | 50,775,000 | 676 | 432 | -0.345358433 | MYLK4,SERPINB1,SERPINB9,WRNIP1 |
| 23 | 50,700,000 | 50,850,000 | 677 | 630 | -0.120726519 | MYLK4,WRNIP1 |
| 23 | 50,775,000 | 50,925,000 | 678 | 781 | -0.020637682 | MYLK4 |
| 23 | 50,850,000 | 51,000,000 | 679 | 676 | -0.676647837 | |
| 23 | 50,925,000 | 51,075,000 | 680 | 713 | -0.77493486 | |
| 23 | 51,000,000 | 51,150,000 | 681 | 656 | -0.187122922 | GMDS |
| 23 | 51,075,000 | 51,225,000 | 682 | 536 | -0.040658256 | GMDS |
| 23 | 51,150,000 | 51,300,000 | 683 | 560 | 0.329118369 | GMDS |
| 23 | 51,225,000 | 51,375,000 | 684 | 562 | -0.012114002 | GMDS |
| 23 | 51,300,000 | 51,450,000 | 685 | 696 | -0.35333623 | GMDS |
| 23 | 51,375,000 | 51,525,000 | 686 | 690 | -0.019837141 | GMDS |
| 23 | 51,450,000 | 51,600,000 | 687 | 569 | 0.14327555 | FOXF2,GMDS |
| 23 | 51,525,000 | 51,675,000 | 688 | 588 | -0.482281019 | FOXF2 |
| 23 | 51,600,000 | 51,750,000 | 689 | 931 | -0.804833326 | |
| 23 | 51,675,000 | 51,825,000 | 690 | 871 | -0.55349737 | |
| 23 | 51,750,000 | 51,900,000 | 691 | 492 | -0.586894062 | |
| 23 | 51,825,000 | 51,975,000 | 692 | 443 | -0.785009156 | EXOC2 |
| 23 | 51,900,000 | 52,050,000 | 693 | 396 | -0.390634325 | EXOC2 |
| 23 | 51,975,000 | 52,125,000 | 694 | 531 | -1.907121972 | DUSP22,EXOC2,IRF4 |
| 23 | 52,050,000 | 52,200,000 | 695 | 587 | -1.653724884 | DUSP22,IRF4 |
| 23 | 52,125,000 | 52,275,000 | 696 | 597 | -0.330976882 | DUSP22 |
| 23 | 52,200,000 | 52,350,000 | 697 | 569 | -0.330732071 | |
| 23 | 52,275,000 | 52,425,000 | 698 | 513 | -1.77983219 | ENSBTAG00000047812 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 52,350,000 | 52,500,000 | 699 | 521 | -4.762283892 | ENSBTAG00000047485,ENSBTAG00000047516,ENSBTAG0000047812 |
| 23 | 52,425,000 | 52,530,062 | 700 | 296 | -4.079135223 | ENSBTAG00000047485,ENSBTAG00000047516 |
| 24 | 0 | 150,000 | 1 | 424 | -2.205748253 | |
| 24 | 75,000 | 225,000 | 2 | 748 | -1.736858364 | ENSBTAG00000013809 |
| 24 | 150,000 | 300,000 | 3 | 662 | -0.959915161 | ENSBTAG00000013809 |
| 24 | 225,000 | 375,000 | 4 | 746 | 0.01225354 | ENSBTAG00000045511 |
| 24 | 300,000 | 450,000 | 5 | 1318 | 1.151686997 | ENSBTAG00000045511 |
| 24 | 375,000 | 525,000 | 6 | 1368 | 1.103741499 | ENSBTAG00000046170,ENSBTAG00000047013 |
| 24 | 450,000 | 600,000 | 7 | 1074 | 0.639787768 | PARD6G,ENSBTAG00000046170,ENSBTAG00000047013 |
| 24 | 525,000 | 675,000 | 8 | 937 | 0.441971057 | PARD6G |
| 24 | 600,000 | 750,000 | 9 | 718 | 0.347661611 | ADNP2,PARD6G,RBFA,ENSBTAG00000036298 |
| 24 | 675,000 | 825,000 | 10 | 675 | 0.2655682 | ADNP2,PQLC1,RBFA,TXNL4A,ENSBTAG00000036298 |
| 24 | 750,000 | 900,000 | 11 | 719 | 0.593165532 | KCNG2,PQLC1,TXNL4A,ENSBTAG00000036298 |
| 24 | 825,000 | 975,000 | 12 | 668 | 0.90380441 | KCNG2,PQLC1 |
| 24 | 900,000 | 1,050,000 | 13 | 573 | 0.912909742 | NFATC1 |
| 24 | 975,000 | 1,125,000 | 14 | 489 | 0.955981833 | ATP9B,NFATC1 |
| 24 | 1,050,000 | 1,200,000 | 15 | 432 | 0.723610369 | ATP9B,NFATC1 |
| 24 | 1,125,000 | 1,275,000 | 16 | 539 | 0.575831121 | ATP9B |
| 24 | 1,200,000 | 1,350,000 | 17 | 723 | 0.990377161 | ATP9B |
| 24 | 1,275,000 | 1,425,000 | 18 | 790 | 0.984135711 | |
| 24 | 1,350,000 | 1,500,000 | 19 | 694 | 0.295610611 | |
| 24 | 1,425,000 | 1,575,000 | 20 | 644 | -0.278953103 | |
| 24 | 1,500,000 | 1,650,000 | 21 | 807 | 0.240893067 | |
| 24 | 1,575,000 | 1,725,000 | 22 | 1023 | 1.033425795 | |
| 24 | 1,650,000 | 1,800,000 | 23 | 1285 | 0.718763217 | |
| 24 | 1,725,000 | 1,875,000 | 24 | 1589 | 0.656510251 | |
| 24 | 1,800,000 | 1,950,000 | 25 | 1351 | 0.844687529 | |
| 24 | 1,875,000 | 2,025,000 | 26 | 1019 | 0.607102987 | |
| 24 | 1,950,000 | 2,100,000 | 27 | 1055 | 0.279210605 | |
| 24 | 2,025,000 | 2,175,000 | 28 | 1189 | -0.033503416 | |
| 24 | 2,100,000 | 2,250,000 | 29 | 1353 | -0.371963885 | |
| 24 | 2,175,000 | 2,325,000 | 30 | 1335 | 0.166436404 | |
| 24 | 2,250,000 | 2,400,000 | 31 | 1355 | 0.807077983 | |
| 24 | 2,325,000 | 2,475,000 | 32 | 1310 | 0.798547078 | GALR1 |
| 24 | 2,400,000 | 2,550,000 | 33 | 1650 | 0.252483866 | GALR1 |
| 24 | 2,475,000 | 2,625,000 | 34 | 1802 | 0.300013768 | MBP,ZNF236 |
| 24 | 2,550,000 | 2,700,000 | 35 | 1113 | 0.900889708 | MBP,ZNF236 |
| 24 | 2,625,000 | 2,775,000 | 36 | 902 | 1.181421415 | ZNF236 |
| 24 | 2,700,000 | 2,850,000 | 37 | 962 | 1.058832681 | |
| 24 | 2,775,000 | 2,925,000 | 38 | 1231 | 0.886625119 | ZNF516 |
| 24 | 2,850,000 | 3,000,000 | 39 | 1615 | 0.433809702 | ZNF516 |
| 24 | 2,925,000 | 3,075,000 | 40 | 1549 | 0.264893455 | |
| 24 | 3,000,000 | 3,150,000 | 41 | 1471 | 0.2458135 | |
| 24 | 3,075,000 | 3,225,000 | 42 | 1219 | 0.318970453 | |
| 24 | 3,150,000 | 3,300,000 | 43 | 1097 | 0.668886985 | |
| 24 | 3,225,000 | 3,375,000 | 44 | 1089 | 0.53699366 | |
| 24 | 3,300,000 | 3,450,000 | 45 | 1061 | 0.316789189 | |
| 24 | 3,375,000 | 3,525,000 | 46 | 1315 | 0.620088556 | |
| 24 | 3,450,000 | 3,600,000 | 47 | 1433 | 0.29048879 | |
| 24 | 3,525,000 | 3,675,000 | 48 | 1035 | 0.097855141 | TSHZ1 |
| 24 | 3,600,000 | 3,750,000 | 49 | 621 | -0.073744069 | TSHZ1 |
| 24 | 3,675,000 | 3,825,000 | 50 | 665 | -0.142226458 | TSHZ1,ZADH2 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|-----------------------------|
| 24 | 3,750,000 | 3,900,000 | 51 | 770 | 0.425653299 | ZADH2,ZNF407 |
| 24 | 3,825,000 | 3,975,000 | 52 | 749 | 0.310922166 | ZNF407 |
| 24 | 3,900,000 | 4,050,000 | 53 | 474 | 0.441326764 | ZNF407 |
| 24 | 3,975,000 | 4,125,000 | 54 | 258 | 0.966092427 | ZNF407 |
| 24 | 4,050,000 | 4,200,000 | 55 | 423 | 0.71806441 | ZNF407 |
| 24 | 4,125,000 | 4,275,000 | 56 | 588 | 0.513883521 | CNDP1,CNDP2,ZNF407 |
| 24 | 4,200,000 | 4,350,000 | 57 | 716 | 1.119103146 | CNDP1,CNDP2,FAM69C |
| 24 | 4,275,000 | 4,425,000 | 58 | 569 | 1.106616329 | C18orf63,CNDP2,CYB5A,FAM69C |
| 24 | 4,350,000 | 4,500,000 | 59 | 377 | 0.38994727 | C18orf63,CYB5A |
| 24 | 4,425,000 | 4,575,000 | 60 | 375 | 0.465773255 | CYB5A,FBXO15,TIMM21 |
| 24 | 4,500,000 | 4,650,000 | 61 | 692 | 0.446290845 | FBXO15,TIMM21 |
| 24 | 4,575,000 | 4,725,000 | 62 | 995 | 0.882432592 | |
| 24 | 4,650,000 | 4,800,000 | 63 | 1024 | 1.162746281 | |
| 24 | 4,725,000 | 4,875,000 | 64 | 988 | 1.152849196 | |
| 24 | 4,800,000 | 4,950,000 | 65 | 737 | -1.437013142 | |
| 24 | 4,875,000 | 5,025,000 | 66 | 495 | -3.380272191 | |
| 24 | 4,950,000 | 5,100,000 | 67 | 454 | -0.300380386 | |
| 24 | 5,025,000 | 5,175,000 | 68 | 827 | 0.243473664 | |
| 24 | 5,100,000 | 5,250,000 | 69 | 1056 | 0.446766157 | |
| 24 | 5,175,000 | 5,325,000 | 70 | 955 | 0.190676463 | |
| 24 | 5,250,000 | 5,400,000 | 71 | 760 | -0.282087992 | NETO1 |
| 24 | 5,325,000 | 5,475,000 | 72 | 857 | 0.091215826 | NETO1 |
| 24 | 5,400,000 | 5,550,000 | 73 | 814 | 0.28399765 | NETO1 |
| 24 | 5,475,000 | 5,625,000 | 74 | 859 | 0.064792632 | CBLN2 |
| 24 | 5,550,000 | 5,700,000 | 75 | 1136 | 0.459279963 | CBLN2 |
| 24 | 5,625,000 | 5,775,000 | 76 | 1097 | 0.674561192 | |
| 24 | 5,700,000 | 5,850,000 | 77 | 1303 | 0.656910832 | |
| 24 | 5,775,000 | 5,925,000 | 78 | 1244 | 0.486683898 | |
| 24 | 5,850,000 | 6,000,000 | 79 | 1149 | 0.055980389 | |
| 24 | 5,925,000 | 6,075,000 | 80 | 1397 | -0.228527578 | |
| 24 | 6,000,000 | 6,150,000 | 81 | 1377 | -0.052453506 | |
| 24 | 6,075,000 | 6,225,000 | 82 | 1287 | -0.070866082 | |
| 24 | 6,150,000 | 6,300,000 | 83 | 1369 | -0.254620411 | |
| 24 | 6,225,000 | 6,375,000 | 84 | 1316 | -0.233713799 | |
| 24 | 6,300,000 | 6,450,000 | 85 | 1468 | -1.65641958 | |
| 24 | 6,375,000 | 6,525,000 | 86 | 1266 | -3.039797213 | |
| 24 | 6,450,000 | 6,600,000 | 87 | 860 | -2.407334329 | |
| 24 | 6,525,000 | 6,675,000 | 88 | 1063 | 0.772816659 | |
| 24 | 6,600,000 | 6,750,000 | 89 | 1415 | 1.097409663 | |
| 24 | 6,675,000 | 6,825,000 | 90 | 1313 | 0.868566178 | |
| 24 | 6,750,000 | 6,900,000 | 91 | 1231 | -0.329085972 | |
| 24 | 6,825,000 | 6,975,000 | 92 | 1229 | -1.107209119 | |
| 24 | 6,900,000 | 7,050,000 | 93 | 1300 | -0.553985919 | |
| 24 | 6,975,000 | 7,125,000 | 94 | 1550 | 0.593163433 | |
| 24 | 7,050,000 | 7,200,000 | 95 | 1173 | 0.668438429 | |
| 24 | 7,125,000 | 7,275,000 | 96 | 1017 | 0.474375858 | |
| 24 | 7,200,000 | 7,350,000 | 97 | 1251 | 0.603878957 | SOCS6 |
| 24 | 7,275,000 | 7,425,000 | 98 | 1317 | 0.59656763 | RTTN,SOCS6 |
| 24 | 7,350,000 | 7,500,000 | 99 | 860 | 0.655790022 | RTTN |
| 24 | 7,425,000 | 7,575,000 | 100 | 717 | 0.564053532 | RTTN |
| 24 | 7,500,000 | 7,650,000 | 101 | 886 | 0.611341112 | CD226,RTTN |
| 24 | 7,575,000 | 7,725,000 | 102 | 981 | 0.719811366 | CD226,DOK6 |
| 24 | 7,650,000 | 7,800,000 | 103 | 1034 | -0.065683401 | CD226,DOK6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------|
| 24 | 7,725,000 | 7,875,000 | 104 | 830 | -1.393571916 | DOK6 |
| 24 | 7,800,000 | 7,950,000 | 105 | 815 | -0.916077931 | DOK6 |
| 24 | 7,875,000 | 8,025,000 | 106 | 1008 | 0.302418759 | DOK6 |
| 24 | 7,950,000 | 8,100,000 | 107 | 1168 | 0.575887977 | DOK6 |
| 24 | 8,025,000 | 8,175,000 | 108 | 1094 | 0.431419013 | DOK6 |
| 24 | 8,100,000 | 8,250,000 | 109 | 938 | 0.211774965 | DOK6 |
| 24 | 8,175,000 | 8,325,000 | 110 | 792 | -1.371679465 | |
| 24 | 8,250,000 | 8,400,000 | 111 | 1063 | -1.007359346 | |
| 24 | 8,325,000 | 8,475,000 | 112 | 1046 | -0.653122015 | |
| 24 | 8,400,000 | 8,550,000 | 113 | 872 | -0.686954539 | |
| 24 | 8,475,000 | 8,625,000 | 114 | 1073 | -0.361699243 | CCDC102B |
| 24 | 8,550,000 | 8,700,000 | 115 | 919 | 0.099402071 | CCDC102B |
| 24 | 8,625,000 | 8,775,000 | 116 | 911 | 1.034932115 | CCDC102B,TMX3 |
| 24 | 8,700,000 | 8,850,000 | 117 | 889 | 1.044007655 | HIGD1D,TMX3 |
| 24 | 8,775,000 | 8,925,000 | 118 | 475 | 0.670925956 | HIGD1D,TMX3 |
| 24 | 8,850,000 | 9,000,000 | 119 | 515 | 0.319723317 | |
| 24 | 8,925,000 | 9,075,000 | 120 | 765 | 0.470533598 | |
| 24 | 9,000,000 | 9,150,000 | 121 | 707 | -0.33212647 | |
| 24 | 9,075,000 | 9,225,000 | 122 | 868 | -2.178029065 | |
| 24 | 9,150,000 | 9,300,000 | 123 | 1157 | -2.077496898 | |
| 24 | 9,225,000 | 9,375,000 | 124 | 1361 | -0.664745424 | |
| 24 | 9,300,000 | 9,450,000 | 125 | 1351 | 0.278477573 | |
| 24 | 9,375,000 | 9,525,000 | 126 | 1123 | 0.791430441 | |
| 24 | 9,450,000 | 9,600,000 | 127 | 932 | 0.641039704 | |
| 24 | 9,525,000 | 9,675,000 | 128 | 903 | 0.978976075 | |
| 24 | 9,600,000 | 9,750,000 | 129 | 892 | 0.42639083 | DSEL |
| 24 | 9,675,000 | 9,825,000 | 130 | 1125 | -0.434046259 | DSEL |
| 24 | 9,750,000 | 9,900,000 | 131 | 1350 | 0.292035601 | |
| 24 | 9,825,000 | 9,975,000 | 132 | 1334 | 0.085736071 | |
| 24 | 9,900,000 | 10,050,000 | 133 | 1409 | -0.271287113 | |
| 24 | 9,975,000 | 10,125,000 | 134 | 1334 | 0.549383611 | |
| 24 | 10,050,000 | 10,200,000 | 135 | 1322 | 1.108329027 | |
| 24 | 10,125,000 | 10,275,000 | 136 | 1164 | 0.695135262 | |
| 24 | 10,200,000 | 10,350,000 | 137 | 1225 | -0.00831096 | |
| 24 | 10,275,000 | 10,425,000 | 138 | 1483 | 0.11221807 | |
| 24 | 10,350,000 | 10,500,000 | 139 | 1390 | 0.16424851 | CDH19 |
| 24 | 10,425,000 | 10,575,000 | 140 | 1155 | 0.426311781 | CDH19 |
| 24 | 10,500,000 | 10,650,000 | 141 | 1335 | 0.688953935 | CDH19 |
| 24 | 10,575,000 | 10,725,000 | 142 | 1441 | 0.827907891 | |
| 24 | 10,650,000 | 10,800,000 | 143 | 1128 | 1.178094183 | |
| 24 | 10,725,000 | 10,875,000 | 144 | 1076 | 0.833305231 | |
| 24 | 10,800,000 | 10,950,000 | 145 | 1071 | -0.677142338 | |
| 24 | 10,875,000 | 11,025,000 | 146 | 980 | -0.718944907 | |
| 24 | 10,950,000 | 11,100,000 | 147 | 1380 | -0.372317379 | CDH7 |
| 24 | 11,025,000 | 11,175,000 | 148 | 1391 | 0.147374444 | CDH7 |
| 24 | 11,100,000 | 11,250,000 | 149 | 715 | 0.98801376 | CDH7 |
| 24 | 11,175,000 | 11,325,000 | 150 | 915 | 0.719800586 | CDH7 |
| 24 | 11,250,000 | 11,400,000 | 151 | 977 | 0.567821564 | |
| 24 | 11,325,000 | 11,475,000 | 152 | 607 | 0.265286045 | |
| 24 | 11,400,000 | 11,550,000 | 153 | 654 | -0.47674761 | |
| 24 | 11,475,000 | 11,625,000 | 154 | 853 | -0.504156321 | |
| 24 | 11,550,000 | 11,700,000 | 155 | 950 | 0.318177696 | |
| 24 | 11,625,000 | 11,775,000 | 156 | 1166 | 0.671216465 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 24 | 11,700,000 | 11,850,000 | 157 | 1418 | 0.930019555 | |
| 24 | 11,775,000 | 11,925,000 | 158 | 1433 | 0.161935885 | |
| 24 | 11,850,000 | 12,000,000 | 159 | 1042 | -1.457840647 | |
| 24 | 11,925,000 | 12,075,000 | 160 | 875 | 0.340692987 | |
| 24 | 12,000,000 | 12,150,000 | 161 | 949 | 0.555056613 | |
| 24 | 12,075,000 | 12,225,000 | 162 | 1275 | 0.388026062 | |
| 24 | 12,150,000 | 12,300,000 | 163 | 1218 | 0.764765546 | |
| 24 | 12,225,000 | 12,375,000 | 164 | 896 | 0.279482778 | |
| 24 | 12,300,000 | 12,450,000 | 165 | 1179 | 0.077882085 | |
| 24 | 12,375,000 | 12,525,000 | 166 | 1308 | -0.002659234 | |
| 24 | 12,450,000 | 12,600,000 | 167 | 1479 | -0.032397824 | |
| 24 | 12,525,000 | 12,675,000 | 168 | 1353 | -0.019977395 | |
| 24 | 12,600,000 | 12,750,000 | 169 | 1326 | -0.304333139 | SERPINB2,SERPINB8 |
| 24 | 12,675,000 | 12,825,000 | 170 | 1135 | -0.633062592 | SERPINB2,SERPINB8,ENSBTAG00000034656 |
| 24 | 12,750,000 | 12,900,000 | 171 | 1536 | -0.361296436 | SERPINB2,ENSBTAG00000034656 |
| 24 | 12,825,000 | 12,975,000 | 172 | 1440 | -0.06471642 | SYT4 |
| 24 | 12,900,000 | 13,050,000 | 173 | 979 | -0.674352085 | SYT4 |
| 24 | 12,975,000 | 13,125,000 | 174 | 1242 | -0.235670664 | |
| 24 | 13,050,000 | 13,200,000 | 175 | 1250 | 0.805633337 | |
| 24 | 13,125,000 | 13,275,000 | 176 | 1735 | 0.710561338 | |
| 24 | 13,200,000 | 13,350,000 | 177 | 2025 | 0.394264161 | |
| 24 | 13,275,000 | 13,425,000 | 178 | 2303 | 0.98572105 | |
| 24 | 13,350,000 | 13,500,000 | 179 | 2096 | 1.172452484 | |
| 24 | 13,425,000 | 13,575,000 | 180 | 1872 | 0.791765354 | |
| 24 | 13,500,000 | 13,650,000 | 181 | 2000 | 0.820876018 | |
| 24 | 13,575,000 | 13,725,000 | 182 | 1556 | 0.952006302 | |
| 24 | 13,650,000 | 13,800,000 | 183 | 1121 | 0.910296259 | |
| 24 | 13,725,000 | 13,875,000 | 184 | 1240 | 0.013754672 | |
| 24 | 13,800,000 | 13,950,000 | 185 | 1181 | 0.013645484 | |
| 24 | 13,875,000 | 14,025,000 | 186 | 805 | 0.324260924 | |
| 24 | 13,950,000 | 14,100,000 | 187 | 834 | 0.235297258 | |
| 24 | 14,025,000 | 14,175,000 | 188 | 1319 | 0.77516292 | |
| 24 | 14,100,000 | 14,250,000 | 189 | 1434 | 1.092064569 | PIK3C3 |
| 24 | 14,175,000 | 14,325,000 | 190 | 938 | 1.072342617 | PIK3C3 |
| 24 | 14,250,000 | 14,400,000 | 191 | 1106 | 1.008088745 | PIK3C3 |
| 24 | 14,325,000 | 14,475,000 | 192 | 1260 | 0.612785174 | PIK3C3 |
| 24 | 14,400,000 | 14,550,000 | 193 | 810 | -0.117746383 | |
| 24 | 14,475,000 | 14,625,000 | 194 | 570 | -0.306082487 | |
| 24 | 14,550,000 | 14,700,000 | 195 | 927 | 0.312317986 | |
| 24 | 14,625,000 | 14,775,000 | 196 | 1010 | 0.1126411 | |
| 24 | 14,700,000 | 14,850,000 | 197 | 927 | 0.626424099 | |
| 24 | 14,775,000 | 14,925,000 | 198 | 1092 | 1.083294881 | |
| 24 | 14,850,000 | 15,000,000 | 199 | 1297 | 0.954897904 | |
| 24 | 14,925,000 | 15,075,000 | 200 | 1282 | 0.051908219 | |
| 24 | 15,000,000 | 15,150,000 | 201 | 1115 | -0.008499355 | |
| 24 | 15,075,000 | 15,225,000 | 202 | 797 | 0.825946581 | |
| 24 | 15,150,000 | 15,300,000 | 203 | 622 | -0.016027232 | |
| 24 | 15,225,000 | 15,375,000 | 204 | 580 | 0.106207156 | |
| 24 | 15,300,000 | 15,450,000 | 205 | 361 | 0.418899007 | |
| 24 | 15,375,000 | 15,525,000 | 206 | 385 | 0.541461384 | |
| 24 | 15,450,000 | 15,600,000 | 207 | 618 | 0.850133196 | |
| 24 | 15,525,000 | 15,675,000 | 208 | 721 | 0.81205122 | |
| 24 | 15,600,000 | 15,750,000 | 209 | 587 | 0.747917186 | |

| | | | | | |
|----|------------|------------|-----|------|--------------|
| 24 | 15,675,000 | 15,825,000 | 210 | 866 | 0.96730845 |
| 24 | 15,750,000 | 15,900,000 | 211 | 1096 | 0.961658843 |
| 24 | 15,825,000 | 15,975,000 | 212 | 956 | 0.914805599 |
| 24 | 15,900,000 | 16,050,000 | 213 | 607 | 0.608145339 |
| 24 | 15,975,000 | 16,125,000 | 214 | 605 | -1.487065825 |
| 24 | 16,050,000 | 16,200,000 | 215 | 608 | -1.380561628 |
| 24 | 16,125,000 | 16,275,000 | 216 | 497 | -0.417268908 |
| 24 | 16,200,000 | 16,350,000 | 217 | 573 | 0.125107955 |
| 24 | 16,275,000 | 16,425,000 | 218 | 464 | 0.735271794 |
| 24 | 16,350,000 | 16,500,000 | 219 | 517 | 0.202289984 |
| 24 | 16,425,000 | 16,575,000 | 220 | 803 | 0.000608089 |
| 24 | 16,500,000 | 16,650,000 | 221 | 1348 | -0.196788393 |
| 24 | 16,575,000 | 16,725,000 | 222 | 1503 | 0.109160566 |
| 24 | 16,650,000 | 16,800,000 | 223 | 1164 | 0.816947048 |
| 24 | 16,725,000 | 16,875,000 | 224 | 823 | 0.436485814 |
| 24 | 16,800,000 | 16,950,000 | 225 | 608 | -0.002523208 |
| 24 | 16,875,000 | 17,025,000 | 226 | 869 | -0.203124281 |
| 24 | 16,950,000 | 17,100,000 | 227 | 1592 | 0.203003084 |
| 24 | 17,025,000 | 17,175,000 | 228 | 1693 | 0.758785021 |
| 24 | 17,100,000 | 17,250,000 | 229 | 1354 | 0.38586518 |
| 24 | 17,175,000 | 17,325,000 | 230 | 1276 | -0.004618043 |
| 24 | 17,250,000 | 17,400,000 | 231 | 1113 | -0.107173753 |
| 24 | 17,325,000 | 17,475,000 | 232 | 756 | -0.0016342 |
| 24 | 17,400,000 | 17,550,000 | 233 | 405 | 0.338579541 |
| 24 | 17,475,000 | 17,625,000 | 234 | 505 | 0.967528745 |
| 24 | 17,550,000 | 17,700,000 | 235 | 728 | 0.562322002 |
| 24 | 17,625,000 | 17,775,000 | 236 | 775 | 0.614707448 |
| 24 | 17,700,000 | 17,850,000 | 237 | 1030 | 1.13492942 |
| 24 | 17,775,000 | 17,925,000 | 238 | 1172 | 1.189463688 |
| 24 | 17,850,000 | 18,000,000 | 239 | 893 | 0.833570096 |
| 24 | 17,925,000 | 18,075,000 | 240 | 854 | 0.180861589 |
| 24 | 18,000,000 | 18,150,000 | 241 | 739 | -0.313837888 |
| 24 | 18,075,000 | 18,225,000 | 242 | 532 | 0.05152175 |
| 24 | 18,150,000 | 18,300,000 | 243 | 755 | -0.328003787 |
| 24 | 18,225,000 | 18,375,000 | 244 | 859 | -0.185276177 |
| 24 | 18,300,000 | 18,450,000 | 245 | 1083 | 0.937131559 |
| 24 | 18,375,000 | 18,525,000 | 246 | 995 | 0.638275222 |
| 24 | 18,450,000 | 18,600,000 | 247 | 644 | -0.641799802 |
| 24 | 18,525,000 | 18,675,000 | 248 | 907 | 0.294379568 |
| 24 | 18,600,000 | 18,750,000 | 249 | 964 | 0.545819642 |
| 24 | 18,675,000 | 18,825,000 | 250 | 617 | 0.086926031 |
| 24 | 18,750,000 | 18,900,000 | 251 | 550 | 0.559464583 |
| 24 | 18,825,000 | 18,975,000 | 252 | 709 | 0.970364888 |
| 24 | 18,900,000 | 19,050,000 | 253 | 507 | 1.097118965 |
| 24 | 18,975,000 | 19,125,000 | 254 | 476 | 0.510080255 |
| 24 | 19,050,000 | 19,200,000 | 255 | 1105 | 0.514393748 |
| 24 | 19,125,000 | 19,275,000 | 256 | 1296 | 0.418271385 |
| 24 | 19,200,000 | 19,350,000 | 257 | 1080 | 0.117047778 |
| 24 | 19,275,000 | 19,425,000 | 258 | 1205 | 0.325559505 |
| 24 | 19,350,000 | 19,500,000 | 259 | 1031 | 0.295344925 |
| 24 | 19,425,000 | 19,575,000 | 260 | 667 | -1.835475218 |
| 24 | 19,500,000 | 19,650,000 | 261 | 660 | -3.633034001 |
| 24 | 19,575,000 | 19,725,000 | 262 | 736 | -0.070854392 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 19,650,000 | 19,800,000 | 263 | 717 | 0.968136716 | |
| 24 | 19,725,000 | 19,875,000 | 264 | 574 | 0.017861072 | BRUNOL4 |
| 24 | 19,800,000 | 19,950,000 | 265 | 610 | -1.058699828 | BRUNOL4 |
| 24 | 19,875,000 | 20,025,000 | 266 | 745 | -1.491100477 | BRUNOL4 |
| 24 | 19,950,000 | 20,100,000 | 267 | 699 | -1.069218925 | BRUNOL4 |
| 24 | 20,025,000 | 20,175,000 | 268 | 703 | 0.483967443 | BRUNOL4 |
| 24 | 20,100,000 | 20,250,000 | 269 | 889 | 0.875349785 | BRUNOL4 |
| 24 | 20,175,000 | 20,325,000 | 270 | 820 | 1.177089609 | KIAA1328 |
| 24 | 20,250,000 | 20,400,000 | 271 | 554 | 1.163789565 | KIAA1328 |
| 24 | 20,325,000 | 20,475,000 | 272 | 481 | 1.01515693 | |
| 24 | 20,400,000 | 20,550,000 | 273 | 344 | 0.913981534 | |
| 24 | 20,475,000 | 20,625,000 | 274 | 290 | 1.046651104 | C24H18ORF10 |
| 24 | 20,550,000 | 20,700,000 | 275 | 441 | 0.770089746 | C24H18ORF10,FHOD3 |
| 24 | 20,625,000 | 20,775,000 | 276 | 558 | 0.435087027 | C24H18ORF10,FHOD3 |
| 24 | 20,700,000 | 20,850,000 | 277 | 677 | 0.582168772 | FHOD3 |
| 24 | 20,775,000 | 20,925,000 | 278 | 960 | 0.919477613 | FHOD3 |
| 24 | 20,850,000 | 21,000,000 | 279 | 883 | 0.969521321 | FHOD3 |
| 24 | 20,925,000 | 21,075,000 | 280 | 769 | 0.493051235 | FHOD3 |
| 24 | 21,000,000 | 21,150,000 | 281 | 936 | 0.451338905 | FHOD3 |
| 24 | 21,075,000 | 21,225,000 | 282 | 1261 | 0.725127755 | FHOD3,MOCOS |
| 24 | 21,150,000 | 21,300,000 | 283 | 1136 | 0.6878277 | ELP2,FHOD3,MOCOS |
| 24 | 21,225,000 | 21,375,000 | 284 | 640 | 0.597758092 | ELP2,MOCOS,RPRD1A,SLC39A6 |
| 24 | 21,300,000 | 21,450,000 | 285 | 665 | -0.279813415 | C18orf21,ELP2,RPRD1A,SLC39A6 |
| 24 | 21,375,000 | 21,525,000 | 286 | 878 | -1.064908279 | C18orf21,RPRD1A |
| 24 | 21,450,000 | 21,600,000 | 287 | 970 | -1.120496623 | C18orf21 |
| 24 | 21,525,000 | 21,675,000 | 288 | 958 | -0.667706232 | |
| 24 | 21,600,000 | 21,750,000 | 289 | 970 | 0.235405884 | GALNT1 |
| 24 | 21,675,000 | 21,825,000 | 290 | 921 | 0.147536357 | GALNT1 |
| 24 | 21,750,000 | 21,900,000 | 291 | 908 | -0.001546084 | GALNT1,INO80C |
| 24 | 21,825,000 | 21,975,000 | 292 | 705 | 0.034026441 | INO80C |
| 24 | 21,900,000 | 22,050,000 | 293 | 762 | 0.676344348 | INO80C,ZNF24 |
| 24 | 21,975,000 | 22,125,000 | 294 | 754 | 0.773741891 | ZNF24,ZNF397 |
| 24 | 22,050,000 | 22,200,000 | 295 | 545 | 0.520387899 | MAPRE2,ZNF24,ZNF397,ENSBTAG00000015315 |
| 24 | 22,125,000 | 22,275,000 | 296 | 854 | 0.870387961 | MAPRE2,ENSBTAG00000015315 |
| 24 | 22,200,000 | 22,350,000 | 297 | 791 | 1.004555676 | MAPRE2 |
| 24 | 22,275,000 | 22,425,000 | 298 | 603 | 0.798838236 | MAPRE2 |
| 24 | 22,350,000 | 22,500,000 | 299 | 696 | 0.739920067 | DTNA |
| 24 | 22,425,000 | 22,575,000 | 300 | 822 | -0.122360254 | DTNA |
| 24 | 22,500,000 | 22,650,000 | 301 | 899 | -0.642121243 | DTNA |
| 24 | 22,575,000 | 22,725,000 | 302 | 1022 | -0.065798972 | DTNA |
| 24 | 22,650,000 | 22,800,000 | 303 | 1113 | 0.590255745 | DTNA |
| 24 | 22,725,000 | 22,875,000 | 304 | 855 | 0.762847466 | DTNA |
| 24 | 22,800,000 | 22,950,000 | 305 | 620 | 0.918364057 | |
| 24 | 22,875,000 | 23,025,000 | 306 | 832 | 0.898288622 | |
| 24 | 22,950,000 | 23,100,000 | 307 | 1229 | 0.894888643 | |
| 24 | 23,025,000 | 23,175,000 | 308 | 1085 | 0.804148799 | NOL4 |
| 24 | 23,100,000 | 23,250,000 | 309 | 790 | -1.429221076 | NOL4 |
| 24 | 23,175,000 | 23,325,000 | 310 | 744 | -3.695469641 | NOL4 |
| 24 | 23,250,000 | 23,400,000 | 311 | 772 | -3.288124704 | NOL4 |
| 24 | 23,325,000 | 23,475,000 | 312 | 658 | -1.046851336 | NOL4 |
| 24 | 23,400,000 | 23,550,000 | 313 | 607 | 0.491198276 | NOL4 |
| 24 | 23,475,000 | 23,625,000 | 314 | 1162 | 0.866049959 | NOL4 |
| 24 | 23,550,000 | 23,700,000 | 315 | 1331 | 0.881681446 | NOL4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 24 | 23,625,000 | 23,775,000 | 316 | 669 | 0.23507142 | ASXL3,NOL4 |
| 24 | 23,700,000 | 23,850,000 | 317 | 346 | -1.202455973 | ASXL3 |
| 24 | 23,775,000 | 23,925,000 | 318 | 519 | -0.589848523 | ASXL3 |
| 24 | 23,850,000 | 24,000,000 | 319 | 700 | 0.482092995 | ASXL3 |
| 24 | 23,925,000 | 24,075,000 | 320 | 549 | 0.889229988 | ASXL3 |
| 24 | 24,000,000 | 24,150,000 | 321 | 279 | 0.906566542 | CCDC178 |
| 24 | 24,075,000 | 24,225,000 | 322 | 334 | -0.318624899 | CCDC178 |
| 24 | 24,150,000 | 24,300,000 | 323 | 376 | -0.399889155 | CCDC178 |
| 24 | 24,225,000 | 24,375,000 | 324 | 554 | -0.745596618 | CCDC178 |
| 24 | 24,300,000 | 24,450,000 | 325 | 617 | -0.433256383 | ENSBTAG00000048303 |
| 24 | 24,375,000 | 24,525,000 | 326 | 566 | 0.953196842 | ENSBTAG00000048303 |
| 24 | 24,450,000 | 24,600,000 | 327 | 649 | 0.949739189 | |
| 24 | 24,525,000 | 24,675,000 | 328 | 741 | 0.967018278 | KLHL14 |
| 24 | 24,600,000 | 24,750,000 | 329 | 1032 | 0.917983459 | KLHL14 |
| 24 | 24,675,000 | 24,825,000 | 330 | 1146 | 0.428154414 | KLHL14 |
| 24 | 24,750,000 | 24,900,000 | 331 | 1119 | 0.307249482 | KLHL14 |
| 24 | 24,825,000 | 24,975,000 | 332 | 1267 | 0.388439948 | |
| 24 | 24,900,000 | 25,050,000 | 333 | 1267 | 0.479187891 | GAREM |
| 24 | 24,975,000 | 25,125,000 | 334 | 1150 | 0.814317581 | GAREM |
| 24 | 25,050,000 | 25,200,000 | 335 | 1182 | 0.825991633 | GAREM |
| 24 | 25,125,000 | 25,275,000 | 336 | 1148 | 0.914989421 | GAREM |
| 24 | 25,200,000 | 25,350,000 | 337 | 1189 | 0.86275266 | GAREM,MEP1B |
| 24 | 25,275,000 | 25,425,000 | 338 | 1254 | 0.816051754 | MEP1B,RNF138 |
| 24 | 25,350,000 | 25,500,000 | 339 | 1166 | 0.399936791 | RNF125,RNF138 |
| 24 | 25,425,000 | 25,575,000 | 340 | 999 | -0.178485063 | RNF125,RNF138,ENSBTAG00000039296 |
| 24 | 25,500,000 | 25,650,000 | 341 | 864 | 0.306848918 | ENSBTAG00000007696,ENSBTAG00000039296 |
| 24 | 25,575,000 | 25,725,000 | 342 | 1015 | 0.803018805 | ENSBTAG00000007696,ENSBTAG00000039296 |
| 24 | 25,650,000 | 25,800,000 | 343 | 1047 | 0.764042212 | B4GALT6,ENSBTAG00000007696 |
| 24 | 25,725,000 | 25,875,000 | 344 | 1247 | 1.004749999 | B4GALT6,TTR |
| 24 | 25,800,000 | 25,950,000 | 345 | 1798 | 0.993299849 | B4GALT6,DSG2,TTR |
| 24 | 25,875,000 | 26,025,000 | 346 | 1736 | 0.909125204 | DSG2,DSG3 |
| 24 | 25,950,000 | 26,100,000 | 347 | 1472 | 0.335785955 | DSG1,DSG2,DSG3,DSG4 |
| 24 | 26,025,000 | 26,175,000 | 348 | 1559 | -0.623728375 | DSG1,DSG4 |
| 24 | 26,100,000 | 26,250,000 | 349 | 1569 | -0.90982332 | DSG1 |
| 24 | 26,175,000 | 26,325,000 | 350 | 1459 | -0.905274137 | DSC1 |
| 24 | 26,250,000 | 26,400,000 | 351 | 1405 | 0.030468865 | DSC1,DSC2,DSC3 |
| 24 | 26,325,000 | 26,475,000 | 352 | 1118 | 0.826628989 | DSC2,DSC3 |
| 24 | 26,400,000 | 26,550,000 | 353 | 615 | 0.683930776 | DSC3 |
| 24 | 26,475,000 | 26,625,000 | 354 | 488 | 0.428029127 | |
| 24 | 26,550,000 | 26,700,000 | 355 | 785 | 0.091475517 | |
| 24 | 26,625,000 | 26,775,000 | 356 | 1065 | 0.260890985 | |
| 24 | 26,700,000 | 26,850,000 | 357 | 1178 | -0.669264253 | |
| 24 | 26,775,000 | 26,925,000 | 358 | 1248 | -0.492159727 | |
| 24 | 26,850,000 | 27,000,000 | 359 | 1293 | 0.24834778 | |
| 24 | 26,925,000 | 27,075,000 | 360 | 1287 | -0.616093147 | |
| 24 | 27,000,000 | 27,150,000 | 361 | 1120 | -0.707138112 | |
| 24 | 27,075,000 | 27,225,000 | 362 | 862 | -0.745749104 | |
| 24 | 27,150,000 | 27,300,000 | 363 | 804 | -0.536722145 | |
| 24 | 27,225,000 | 27,375,000 | 364 | 693 | 0.300647209 | |
| 24 | 27,300,000 | 27,450,000 | 365 | 543 | 0.522545806 | |
| 24 | 27,375,000 | 27,525,000 | 366 | 1111 | 0.505821612 | |
| 24 | 27,450,000 | 27,600,000 | 367 | 1080 | 0.536232449 | |
| 24 | 27,525,000 | 27,675,000 | 368 | 1082 | -2.214610722 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 24 | 27,600,000 | 27,750,000 | 369 | 1305 | -2.423181711 | |
| 24 | 27,675,000 | 27,825,000 | 370 | 837 | -0.244297933 | |
| 24 | 27,750,000 | 27,900,000 | 371 | 1049 | 0.515826494 | |
| 24 | 27,825,000 | 27,975,000 | 372 | 1277 | -0.138329774 | |
| 24 | 27,900,000 | 28,050,000 | 373 | 1150 | -0.567892429 | |
| 24 | 27,975,000 | 28,125,000 | 374 | 958 | -0.240302793 | |
| 24 | 28,050,000 | 28,200,000 | 375 | 904 | -0.095699376 | |
| 24 | 28,125,000 | 28,275,000 | 376 | 1034 | -0.088734644 | |
| 24 | 28,200,000 | 28,350,000 | 377 | 1247 | 0.231873051 | |
| 24 | 28,275,000 | 28,425,000 | 378 | 1405 | 0.786774269 | |
| 24 | 28,350,000 | 28,500,000 | 379 | 1088 | 1.044614675 | |
| 24 | 28,425,000 | 28,575,000 | 380 | 1074 | 1.112429804 | |
| 24 | 28,500,000 | 28,650,000 | 381 | 1429 | 1.105506388 | |
| 24 | 28,575,000 | 28,725,000 | 382 | 1089 | 1.180880287 | |
| 24 | 28,650,000 | 28,800,000 | 383 | 882 | -1.995448732 | |
| 24 | 28,725,000 | 28,875,000 | 384 | 1232 | -2.759709486 | |
| 24 | 28,800,000 | 28,950,000 | 385 | 970 | -1.618022774 | |
| 24 | 28,875,000 | 29,025,000 | 386 | 646 | 0.63702919 | CDH2 |
| 24 | 28,950,000 | 29,100,000 | 387 | 817 | 1.055874794 | CDH2 |
| 24 | 29,025,000 | 29,175,000 | 388 | 957 | 0.992721208 | CDH2 |
| 24 | 29,100,000 | 29,250,000 | 389 | 900 | 1.0123205 | CDH2 |
| 24 | 29,175,000 | 29,325,000 | 390 | 893 | -0.981837111 | CDH2 |
| 24 | 29,250,000 | 29,400,000 | 391 | 684 | -2.09421492 | |
| 24 | 29,325,000 | 29,475,000 | 392 | 346 | -1.082777272 | |
| 24 | 29,400,000 | 29,550,000 | 393 | 367 | -0.984496231 | ENSBTAG00000044212 |
| 24 | 29,475,000 | 29,625,000 | 394 | 528 | -0.007116237 | ENSBTAG00000044212 |
| 24 | 29,550,000 | 29,700,000 | 395 | 581 | -0.135646946 | |
| 24 | 29,625,000 | 29,775,000 | 396 | 559 | -1.065453208 | |
| 24 | 29,700,000 | 29,850,000 | 397 | 718 | -1.672623271 | |
| 24 | 29,775,000 | 29,925,000 | 398 | 855 | -1.63884963 | |
| 24 | 29,850,000 | 30,000,000 | 399 | 789 | -1.877039351 | |
| 24 | 29,925,000 | 30,075,000 | 400 | 632 | -1.464810615 | CHST9 |
| 24 | 30,000,000 | 30,150,000 | 401 | 619 | -1.512406134 | CHST9 |
| 24 | 30,075,000 | 30,225,000 | 402 | 1068 | -1.369826371 | CHST9 |
| 24 | 30,150,000 | 30,300,000 | 403 | 1075 | -0.712938919 | CHST9 |
| 24 | 30,225,000 | 30,375,000 | 404 | 509 | -0.361586788 | AQP4,CHST9 |
| 24 | 30,300,000 | 30,450,000 | 405 | 649 | 0.436516328 | AQP4,CHST9 |
| 24 | 30,375,000 | 30,525,000 | 406 | 978 | 0.104672065 | AQP4 |
| 24 | 30,450,000 | 30,600,000 | 407 | 762 | -0.280061473 | |
| 24 | 30,525,000 | 30,675,000 | 408 | 751 | 0.832510743 | |
| 24 | 30,600,000 | 30,750,000 | 409 | 718 | 1.174717074 | KCTD1 |
| 24 | 30,675,000 | 30,825,000 | 410 | 551 | 1.219031343 | KCTD1 |
| 24 | 30,750,000 | 30,900,000 | 411 | 657 | 1.077646259 | KCTD1,TAF4B |
| 24 | 30,825,000 | 30,975,000 | 412 | 917 | 1.175119653 | TAF4B |
| 24 | 30,900,000 | 31,050,000 | 413 | 885 | 1.124093887 | PSMA8,SS18,TAF4B |
| 24 | 30,975,000 | 31,125,000 | 414 | 534 | 1.038251315 | PSMA8,SS18 |
| 24 | 31,050,000 | 31,200,000 | 415 | 666 | 1.307562689 | SS18 |
| 24 | 31,125,000 | 31,275,000 | 416 | 707 | 1.428539406 | |
| 24 | 31,200,000 | 31,350,000 | 417 | 535 | 1.471531344 | |
| 24 | 31,275,000 | 31,425,000 | 418 | 445 | 1.33241116 | |
| 24 | 31,350,000 | 31,500,000 | 419 | 386 | 0.094308244 | |
| 24 | 31,425,000 | 31,575,000 | 420 | 567 | -3.480798182 | |
| 24 | 31,500,000 | 31,650,000 | 421 | 758 | -3.245023965 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 24 | 31,575,000 | 31,725,000 | 422 | 605 | -0.981234267 | ZNF521 |
| 24 | 31,650,000 | 31,800,000 | 423 | 487 | -1.799183686 | ZNF521 |
| 24 | 31,725,000 | 31,875,000 | 424 | 537 | -2.212958384 | ZNF521 |
| 24 | 31,800,000 | 31,950,000 | 425 | 552 | -0.125980946 | ZNF521 |
| 24 | 31,875,000 | 32,025,000 | 426 | 487 | 0.438094286 | ZNF521 |
| 24 | 31,950,000 | 32,100,000 | 427 | 549 | -1.656568283 | ZNF521 |
| 24 | 32,025,000 | 32,175,000 | 428 | 666 | -2.39132463 | ZNF521 |
| 24 | 32,100,000 | 32,250,000 | 429 | 932 | -1.88303952 | |
| 24 | 32,175,000 | 32,325,000 | 430 | 1054 | -0.937308933 | |
| 24 | 32,250,000 | 32,400,000 | 431 | 1186 | -0.109378257 | |
| 24 | 32,325,000 | 32,475,000 | 432 | 1393 | -0.373947055 | |
| 24 | 32,400,000 | 32,550,000 | 433 | 1049 | -0.131779452 | |
| 24 | 32,475,000 | 32,625,000 | 434 | 805 | -0.021613851 | HRH4,IMPACT |
| 24 | 32,550,000 | 32,700,000 | 435 | 696 | -2.199621865 | HRH4,IMPACT,OSBPL1A |
| 24 | 32,625,000 | 32,775,000 | 436 | 709 | -3.273622854 | IMPACT,OSBPL1A |
| 24 | 32,700,000 | 32,850,000 | 437 | 688 | -1.523771813 | OSBPL1A |
| 24 | 32,775,000 | 32,925,000 | 438 | 583 | -0.323840451 | CABYR,OSBPL1A,TTC39C |
| 24 | 32,850,000 | 33,000,000 | 439 | 586 | -1.361124529 | CABYR,OSBPL1A,TTC39C |
| 24 | 32,925,000 | 33,075,000 | 440 | 691 | -1.508729808 | LAMA3,TTC39C |
| 24 | 33,000,000 | 33,150,000 | 441 | 739 | -0.133133573 | LAMA3 |
| 24 | 33,075,000 | 33,225,000 | 442 | 748 | 0.535646399 | LAMA3 |
| 24 | 33,150,000 | 33,300,000 | 443 | 924 | 0.647613787 | LAMA3 |
| 24 | 33,225,000 | 33,375,000 | 444 | 1077 | 0.437135814 | LAMA3,ENSBTAG00000039850 |
| 24 | 33,300,000 | 33,450,000 | 445 | 1173 | 0.448796656 | ANKRD29,LAMA3,NPC1,ENSBTAG00000039850 |
| 24 | 33,375,000 | 33,525,000 | 446 | 987 | 0.347588263 | ANKRD29,C18orf8,NPC1,RIOK3 |
| 24 | 33,450,000 | 33,600,000 | 447 | 715 | 0.372721552 | C18orf8,NPC1,RIOK3,TMEM241 |
| 24 | 33,525,000 | 33,675,000 | 448 | 841 | 0.388761885 | RIOK3,TMEM241 |
| 24 | 33,600,000 | 33,750,000 | 449 | 817 | -0.596214311 | CABLES1,TMEM241 |
| 24 | 33,675,000 | 33,825,000 | 450 | 525 | -1.229663827 | CABLES1 |
| 24 | 33,750,000 | 33,900,000 | 451 | 444 | -1.206426461 | CABLES1,RBBP8 |
| 24 | 33,825,000 | 33,975,000 | 452 | 323 | -1.216524596 | RBBP8 |
| 24 | 33,900,000 | 34,050,000 | 453 | 279 | 0.581361925 | RBBP8 |
| 24 | 33,975,000 | 34,125,000 | 454 | 359 | 0.481682335 | |
| 24 | 34,050,000 | 34,200,000 | 455 | 454 | 0.386101679 | |
| 24 | 34,125,000 | 34,275,000 | 456 | 608 | 0.753335626 | |
| 24 | 34,200,000 | 34,350,000 | 457 | 560 | 0.611246934 | |
| 24 | 34,275,000 | 34,425,000 | 458 | 396 | 0.242966124 | |
| 24 | 34,350,000 | 34,500,000 | 459 | 320 | 0.857270238 | |
| 24 | 34,425,000 | 34,575,000 | 460 | 308 | 0.428249806 | GATA6 |
| 24 | 34,500,000 | 34,650,000 | 461 | 318 | 0.103521614 | GATA6,ENSBTAG00000047113 |
| 24 | 34,575,000 | 34,725,000 | 462 | 322 | 0.610300256 | GATA6,ENSBTAG00000047113 |
| 24 | 34,650,000 | 34,800,000 | 463 | 301 | 1.198987086 | |
| 24 | 34,725,000 | 34,875,000 | 464 | 272 | 0.981231034 | MIB1 |
| 24 | 34,800,000 | 34,950,000 | 465 | 421 | 0.752685094 | ABHD3,MIB1 |
| 24 | 34,875,000 | 35,025,000 | 466 | 498 | 0.827371422 | ABHD3,ESCO1,MIB1,SNRPD1 |
| 24 | 34,950,000 | 35,100,000 | 467 | 360 | 1.001485949 | ABHD3,ESCO1,GREB1L,SNRPD1 |
| 24 | 35,025,000 | 35,175,000 | 468 | 554 | -1.669652188 | ESCO1,GREB1L |
| 24 | 35,100,000 | 35,250,000 | 469 | 608 | -2.584294158 | GREB1L |
| 24 | 35,175,000 | 35,325,000 | 470 | 375 | -1.270399161 | |
| 24 | 35,250,000 | 35,400,000 | 471 | 312 | -0.072042279 | MGC133647 |
| 24 | 35,325,000 | 35,475,000 | 472 | 350 | 0.264784825 | MGC133647,ROCK1 |
| 24 | 35,400,000 | 35,550,000 | 473 | 506 | 0.375421447 | ROCK1,USP14 |
| 24 | 35,475,000 | 35,625,000 | 474 | 840 | 1.049937309 | ROCK1,THOC1,USP14 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 24 | 35,550,000 | 35,700,000 | 475 | 966 | 0.982048972 | COLEC12,THOC1,USP14 |
| 24 | 35,625,000 | 35,775,000 | 476 | 736 | 0.787342173 | COLEC12 |
| 24 | 35,700,000 | 35,850,000 | 477 | 610 | 0.352054336 | COLEC12 |
| 24 | 35,775,000 | 35,925,000 | 478 | 813 | -0.35091998 | CETN1,CLUL1,COLEC12 |
| 24 | 35,850,000 | 36,000,000 | 479 | 998 | -0.365160389 | CETN1,CLUL1,ENOSF1,TYMS,YES1 |
| 24 | 35,925,000 | 36,075,000 | 480 | 929 | -0.36263086 | CLUL1,ENOSF1,TYMS,YES1 |
| 24 | 36,000,000 | 36,150,000 | 481 | 965 | 0.059186661 | ADCYAP1,YES1 |
| 24 | 36,075,000 | 36,225,000 | 482 | 1112 | 0.618525401 | ADCYAP1 |
| 24 | 36,150,000 | 36,300,000 | 483 | 950 | 0.537551151 | |
| 24 | 36,225,000 | 36,375,000 | 484 | 706 | 0.237748418 | |
| 24 | 36,300,000 | 36,450,000 | 485 | 625 | 0.239685493 | |
| 24 | 36,375,000 | 36,525,000 | 486 | 643 | -0.170106283 | |
| 24 | 36,450,000 | 36,600,000 | 487 | 977 | 0.182113343 | |
| 24 | 36,525,000 | 36,675,000 | 488 | 1143 | 0.31678093 | |
| 24 | 36,600,000 | 36,750,000 | 489 | 924 | -0.430196463 | |
| 24 | 36,675,000 | 36,825,000 | 490 | 772 | 0.131483594 | |
| 24 | 36,750,000 | 36,900,000 | 491 | 772 | 0.077644877 | |
| 24 | 36,825,000 | 36,975,000 | 492 | 915 | 0.229296724 | |
| 24 | 36,900,000 | 37,050,000 | 493 | 790 | 0.668369821 | |
| 24 | 36,975,000 | 37,125,000 | 494 | 591 | 0.266762164 | |
| 24 | 37,050,000 | 37,200,000 | 495 | 675 | -0.227595101 | |
| 24 | 37,125,000 | 37,275,000 | 496 | 869 | -0.564080009 | METTL4 |
| 24 | 37,200,000 | 37,350,000 | 497 | 886 | 0.106370933 | METTL4,NDC80,SMCHD1 |
| 24 | 37,275,000 | 37,425,000 | 498 | 871 | 1.006995261 | METTL4,NDC80,SMCHD1 |
| 24 | 37,350,000 | 37,500,000 | 499 | 873 | 0.885461429 | EMILIN2,SMCHD1 |
| 24 | 37,425,000 | 37,575,000 | 500 | 620 | 0.080866885 | EMILIN2,LPIN2,SMCHD1 |
| 24 | 37,500,000 | 37,650,000 | 501 | 728 | 0.136327637 | EMILIN2,LPIN2 |
| 24 | 37,575,000 | 37,725,000 | 502 | 869 | 1.04252977 | LPIN2,MYOM1 |
| 24 | 37,650,000 | 37,800,000 | 503 | 569 | 1.265321958 | MYOM1 |
| 24 | 37,725,000 | 37,875,000 | 504 | 468 | 1.033178656 | MYL12B,MYL9,MYOM1 |
| 24 | 37,800,000 | 37,950,000 | 505 | 553 | 0.991243498 | MYL12B,MYL9,TGIF1 |
| 24 | 37,875,000 | 38,025,000 | 506 | 665 | 0.855403256 | MYL12B,TGIF1,ENSBTAG00000005372 |
| 24 | 37,950,000 | 38,100,000 | 507 | 625 | 0.950182251 | ENSBTAG00000005372 |
| 24 | 38,025,000 | 38,175,000 | 508 | 536 | 0.416499805 | ENSBTAG00000005372 |
| 24 | 38,100,000 | 38,250,000 | 509 | 724 | 0.184585236 | ENSBTAG00000005372 |
| 24 | 38,175,000 | 38,325,000 | 510 | 802 | 0.310247868 | ENSBTAG00000005372 |
| 24 | 38,250,000 | 38,400,000 | 511 | 595 | 0.143181634 | ENSBTAG00000005372 |
| 24 | 38,325,000 | 38,475,000 | 512 | 530 | -0.349738951 | |
| 24 | 38,400,000 | 38,550,000 | 513 | 926 | 0.118829055 | |
| 24 | 38,475,000 | 38,625,000 | 514 | 1144 | 0.693362251 | |
| 24 | 38,550,000 | 38,700,000 | 515 | 1110 | 1.3561548 | |
| 24 | 38,625,000 | 38,775,000 | 516 | 969 | 1.005306624 | |
| 24 | 38,700,000 | 38,850,000 | 517 | 634 | -0.025327246 | |
| 24 | 38,775,000 | 38,925,000 | 518 | 622 | -0.138339038 | |
| 24 | 38,850,000 | 39,000,000 | 519 | 613 | -0.210558671 | |
| 24 | 38,925,000 | 39,075,000 | 520 | 535 | -0.565818398 | |
| 24 | 39,000,000 | 39,150,000 | 521 | 554 | 0.188540927 | ENSBTAG00000046269 |
| 24 | 39,075,000 | 39,225,000 | 522 | 518 | 0.893131407 | ENSBTAG00000046269 |
| 24 | 39,150,000 | 39,300,000 | 523 | 623 | -0.298367833 | ZBTB14 |
| 24 | 39,225,000 | 39,375,000 | 524 | 767 | -0.220677749 | EPB41L3,ZBTB14 |
| 24 | 39,300,000 | 39,450,000 | 525 | 920 | 0.487646403 | EPB41L3 |
| 24 | 39,375,000 | 39,525,000 | 526 | 994 | -0.418305717 | EPB41L3 |
| 24 | 39,450,000 | 39,600,000 | 527 | 824 | -2.280425622 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 24 | 39,525,000 | 39,675,000 | 528 | 678 | -3.357382367 | |
| 24 | 39,600,000 | 39,750,000 | 529 | 745 | -2.007908683 | TMEM200C |
| 24 | 39,675,000 | 39,825,000 | 530 | 617 | -1.172575793 | TMEM200C |
| 24 | 39,750,000 | 39,900,000 | 531 | 504 | -1.027149663 | |
| 24 | 39,825,000 | 39,975,000 | 532 | 736 | -1.249430196 | |
| 24 | 39,900,000 | 40,050,000 | 533 | 870 | -0.963329536 | |
| 24 | 39,975,000 | 40,125,000 | 534 | 917 | -0.060417554 | |
| 24 | 40,050,000 | 40,200,000 | 535 | 829 | -1.081063752 | |
| 24 | 40,125,000 | 40,275,000 | 536 | 733 | -1.089527245 | |
| 24 | 40,200,000 | 40,350,000 | 537 | 886 | -0.249775914 | ARHGAP28 |
| 24 | 40,275,000 | 40,425,000 | 538 | 833 | -0.943002204 | ARHGAP28,LAMA1 |
| 24 | 40,350,000 | 40,500,000 | 539 | 884 | -0.366945175 | ARHGAP28,LAMA1 |
| 24 | 40,425,000 | 40,575,000 | 540 | 1161 | -0.006857618 | LAMA1,MGC160046 |
| 24 | 40,500,000 | 40,650,000 | 541 | 1106 | 0.485507997 | LAMA1,MGC160046 |
| 24 | 40,575,000 | 40,725,000 | 542 | 992 | 0.205293526 | |
| 24 | 40,650,000 | 40,800,000 | 543 | 1093 | -0.415425996 | PTPRM |
| 24 | 40,725,000 | 40,875,000 | 544 | 888 | -0.178257975 | PTPRM |
| 24 | 40,800,000 | 40,950,000 | 545 | 620 | 0.229824442 | PTPRM |
| 24 | 40,875,000 | 41,025,000 | 546 | 828 | 0.770093732 | PTPRM |
| 24 | 40,950,000 | 41,100,000 | 547 | 955 | 1.308955724 | PTPRM |
| 24 | 41,025,000 | 41,175,000 | 548 | 796 | 1.217752666 | PTPRM |
| 24 | 41,100,000 | 41,250,000 | 549 | 563 | 0.964380334 | PTPRM |
| 24 | 41,175,000 | 41,325,000 | 550 | 600 | 1.124408906 | PTPRM |
| 24 | 41,250,000 | 41,400,000 | 551 | 708 | 0.918219599 | PTPRM |
| 24 | 41,325,000 | 41,475,000 | 552 | 617 | 0.369442856 | PTPRM |
| 24 | 41,400,000 | 41,550,000 | 553 | 586 | 0.067907 | PTPRM,RAB12 |
| 24 | 41,475,000 | 41,625,000 | 554 | 789 | -0.285926224 | MTCL1,RAB12 |
| 24 | 41,550,000 | 41,700,000 | 555 | 842 | -0.020072845 | MTCL1 |
| 24 | 41,625,000 | 41,775,000 | 556 | 626 | 1.067084734 | MTCL1 |
| 24 | 41,700,000 | 41,850,000 | 557 | 598 | 1.402841513 | |
| 24 | 41,775,000 | 41,925,000 | 558 | 513 | 1.429835663 | ANKRD12,NDUFV2 |
| 24 | 41,850,000 | 42,000,000 | 559 | 383 | 1.401246531 | ANKRD12,NDUFV2,TWSG1 |
| 24 | 41,925,000 | 42,075,000 | 560 | 413 | 1.420236924 | ANKRD12,RALBP1,TWSG1 |
| 24 | 42,000,000 | 42,150,000 | 561 | 470 | 1.364943879 | PPP4R1,RALBP1,TWSG1 |
| 24 | 42,075,000 | 42,225,000 | 562 | 523 | 1.065570513 | PPP4R1,RALBP1 |
| 24 | 42,150,000 | 42,300,000 | 563 | 562 | -0.872052163 | RAB31 |
| 24 | 42,225,000 | 42,375,000 | 564 | 667 | -3.96934254 | RAB31,TXNDC2,VAPA |
| 24 | 42,300,000 | 42,450,000 | 565 | 560 | -3.59413773 | RAB31,TXNDC2,VAPA |
| 24 | 42,375,000 | 42,525,000 | 566 | 418 | -0.441523636 | |
| 24 | 42,450,000 | 42,600,000 | 567 | 611 | -0.016854585 | APCDD1 |
| 24 | 42,525,000 | 42,675,000 | 568 | 814 | -0.087228264 | APCDD1,NAPG,PIEZO2 |
| 24 | 42,600,000 | 42,750,000 | 569 | 812 | 0.521017061 | NAPG,PIEZO2 |
| 24 | 42,675,000 | 42,825,000 | 570 | 711 | 1.078997727 | PIEZO2 |
| 24 | 42,750,000 | 42,900,000 | 571 | 691 | 1.00525825 | PIEZO2 |
| 24 | 42,825,000 | 42,975,000 | 572 | 564 | 0.395648009 | |
| 24 | 42,900,000 | 43,050,000 | 573 | 387 | 0.287578727 | |
| 24 | 42,975,000 | 43,125,000 | 574 | 498 | 0.704498977 | GNAL |
| 24 | 43,050,000 | 43,200,000 | 575 | 653 | 1.029154638 | GNAL,IMPA2,MPPE1 |
| 24 | 43,125,000 | 43,275,000 | 576 | 413 | 1.084832656 | AFG3L2,CIDEA,GNAL,IMPA2,MPPE1,TUBB6,ENSBTAG0000046547 |
| 24 | 43,200,000 | 43,350,000 | 577 | 193 | 0.361396676 | AFG3L2,CIDEA,IMPA2,SLMO1,SPIRE1,TUBB6,ENSBTAG0000046547 |
| 24 | 43,275,000 | 43,425,000 | 578 | 176 | 0.424406696 | SLMO1,SPIRE1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 43,350,000 | 43,500,000 | 579 | 131 | 0.825613806 | SPIRE1 |
| 24 | 43,425,000 | 43,575,000 | 580 | 144 | 0.834823556 | CEP76,PSMG2,PTPN2,SPIRE1 |
| 24 | 43,500,000 | 43,650,000 | 581 | 177 | 0.773031854 | CEP76,PSMG2,PTPN2,SEH1L |
| 24 | 43,575,000 | 43,725,000 | 582 | 190 | 0.915510712 | CEP192,PTPN2,SEH1L |
| 24 | 43,650,000 | 43,800,000 | 583 | 231 | 0.871744535 | CEP192,SEH1L |
| 24 | 43,725,000 | 43,875,000 | 584 | 249 | 0.62382375 | CEP192,LDLRAD4 |
| 24 | 43,800,000 | 43,950,000 | 585 | 210 | 0.164630403 | FAM210A,LDLRAD4,RNMT |
| 24 | 43,875,000 | 44,025,000 | 586 | 206 | -0.190025733 | FAM210A,LDLRAD4,MC2R,MC5R,RNMT |
| 24 | 43,950,000 | 44,100,000 | 587 | 402 | -2.018904867 | MC2R,MC5R,RNMT |
| 24 | 44,025,000 | 44,175,000 | 588 | 436 | -2.238663372 | |
| 24 | 44,100,000 | 44,250,000 | 589 | 233 | -1.905168944 | |
| 24 | 44,175,000 | 44,325,000 | 590 | 174 | -1.883066734 | |
| 24 | 44,250,000 | 44,400,000 | 591 | 158 | -0.938355822 | |
| 24 | 44,325,000 | 44,475,000 | 592 | 195 | -1.83321417 | |
| 24 | 44,400,000 | 44,550,000 | 593 | 366 | -0.504174987 | |
| 24 | 44,475,000 | 44,625,000 | 594 | 557 | -0.748511142 | |
| 24 | 44,550,000 | 44,700,000 | 595 | 588 | -1.670953803 | |
| 24 | 44,625,000 | 44,775,000 | 596 | 511 | -0.330904357 | |
| 24 | 44,700,000 | 44,850,000 | 597 | 460 | 1.249390178 | |
| 24 | 44,775,000 | 44,925,000 | 598 | 504 | 0.42134488 | |
| 24 | 44,850,000 | 45,000,000 | 599 | 577 | 0.138165929 | |
| 24 | 44,925,000 | 45,075,000 | 600 | 455 | 0.504088028 | SETBP1 |
| 24 | 45,000,000 | 45,150,000 | 601 | 315 | 0.642604469 | SETBP1 |
| 24 | 45,075,000 | 45,225,000 | 602 | 333 | 1.000535684 | SETBP1 |
| 24 | 45,150,000 | 45,300,000 | 603 | 381 | 0.911098076 | |
| 24 | 45,225,000 | 45,375,000 | 604 | 463 | 0.677353531 | |
| 24 | 45,300,000 | 45,450,000 | 605 | 484 | 0.408555876 | |
| 24 | 45,375,000 | 45,525,000 | 606 | 641 | 0.705100434 | |
| 24 | 45,450,000 | 45,600,000 | 607 | 696 | 0.730858341 | |
| 24 | 45,525,000 | 45,675,000 | 608 | 818 | -0.274018608 | |
| 24 | 45,600,000 | 45,750,000 | 609 | 868 | -0.019101873 | |
| 24 | 45,675,000 | 45,825,000 | 610 | 773 | 0.485507596 | SLC14A2 |
| 24 | 45,750,000 | 45,900,000 | 611 | 777 | 0.228933868 | SLC14A2 |
| 24 | 45,825,000 | 45,975,000 | 612 | 948 | 0.100372081 | SLC14A1,SLC14A2 |
| 24 | 45,900,000 | 46,050,000 | 613 | 1177 | 0.130214067 | EPG5,SIGLEC15,SLC14A1 |
| 24 | 45,975,000 | 46,125,000 | 614 | 1116 | 0.731014436 | EPG5,SIGLEC15 |
| 24 | 46,050,000 | 46,200,000 | 615 | 710 | 1.224870209 | EPG5,PSTPIP2 |
| 24 | 46,125,000 | 46,275,000 | 616 | 325 | 0.754973036 | EPG5,PSTPIP2 |
| 24 | 46,200,000 | 46,350,000 | 617 | 658 | 0.675330107 | ATP5A1,HAUS1,PSTPIP2 |
| 24 | 46,275,000 | 46,425,000 | 618 | 708 | 0.268089212 | ATP5A1,C24H18orf25,HAUS1,PSTPIP2 |
| 24 | 46,350,000 | 46,500,000 | 619 | 450 | -0.154901408 | C24H18orf25 |
| 24 | 46,425,000 | 46,575,000 | 620 | 629 | 0.042340537 | C24H18orf25 |
| 24 | 46,500,000 | 46,650,000 | 621 | 860 | -0.029260408 | RNF165 |
| 24 | 46,575,000 | 46,725,000 | 622 | 844 | -0.542295635 | RNF165 |
| 24 | 46,650,000 | 46,800,000 | 623 | 642 | -1.758671965 | LOXHD1 |
| 24 | 46,725,000 | 46,875,000 | 624 | 590 | -2.308899632 | LOXHD1 |
| 24 | 46,800,000 | 46,950,000 | 625 | 972 | -1.478209076 | LOXHD1,ST8SIA5 |
| 24 | 46,875,000 | 47,025,000 | 626 | 862 | -0.166492206 | PIAS2,ST8SIA5 |
| 24 | 46,950,000 | 47,100,000 | 627 | 372 | 1.252181387 | PIAS2 |
| 24 | 47,025,000 | 47,175,000 | 628 | 456 | 1.305682942 | PIAS2 |
| 24 | 47,100,000 | 47,250,000 | 629 | 586 | 0.672613876 | HDHD2,KATNAL2 |
| 24 | 47,175,000 | 47,325,000 | 630 | 651 | 0.022107409 | HDHD2,IER3IP1,KATNAL2,ENSBTAG00000047809 |
| 24 | 47,250,000 | 47,400,000 | 631 | 722 | 0.119889172 | HDHD2,IER3IP1,SKOR2,ENSBTAG00000047809 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 24 | 47,325,000 | 47,475,000 | 632 | 795 | -0.707382387 | SKOR2 |
| 24 | 47,400,000 | 47,550,000 | 633 | 810 | -0.453723203 | |
| 24 | 47,475,000 | 47,625,000 | 634 | 824 | 0.839803244 | |
| 24 | 47,550,000 | 47,700,000 | 635 | 736 | 0.747483223 | |
| 24 | 47,625,000 | 47,775,000 | 636 | 591 | -0.065073029 | |
| 24 | 47,700,000 | 47,850,000 | 637 | 459 | -0.676183596 | |
| 24 | 47,775,000 | 47,925,000 | 638 | 430 | -0.900251935 | |
| 24 | 47,850,000 | 48,000,000 | 639 | 421 | -0.504383443 | SMAD2 |
| 24 | 47,925,000 | 48,075,000 | 640 | 278 | 0.833796614 | SMAD2 |
| 24 | 48,000,000 | 48,150,000 | 641 | 339 | 0.036033849 | SMAD2 |
| 24 | 48,075,000 | 48,225,000 | 642 | 452 | -0.978184895 | ZBTB7C |
| 24 | 48,150,000 | 48,300,000 | 643 | 470 | -3.369226484 | ZBTB7C |
| 24 | 48,225,000 | 48,375,000 | 644 | 482 | -5.29851707 | |
| 24 | 48,300,000 | 48,450,000 | 645 | 604 | -1.648462156 | |
| 24 | 48,375,000 | 48,525,000 | 646 | 525 | 0.841206093 | |
| 24 | 48,450,000 | 48,600,000 | 647 | 478 | -0.217802792 | |
| 24 | 48,525,000 | 48,675,000 | 648 | 833 | -2.346523645 | |
| 24 | 48,600,000 | 48,750,000 | 649 | 801 | -1.516489964 | |
| 24 | 48,675,000 | 48,825,000 | 650 | 594 | 0.661853156 | CTIF |
| 24 | 48,750,000 | 48,900,000 | 651 | 662 | -0.151491078 | CTIF |
| 24 | 48,825,000 | 48,975,000 | 652 | 466 | -0.757193907 | CTIF |
| 24 | 48,900,000 | 49,050,000 | 653 | 459 | 0.317434157 | CTIF |
| 24 | 48,975,000 | 49,125,000 | 654 | 449 | 0.660095048 | CTIF,SMAD7 |
| 24 | 49,050,000 | 49,200,000 | 655 | 359 | 0.928361673 | DYM,SMAD7 |
| 24 | 49,125,000 | 49,275,000 | 656 | 394 | 0.761231224 | DYM |
| 24 | 49,200,000 | 49,350,000 | 657 | 286 | 0.812089333 | DYM |
| 24 | 49,275,000 | 49,425,000 | 658 | 250 | 1.184361739 | DYM |
| 24 | 49,350,000 | 49,500,000 | 659 | 291 | 1.270671458 | DYM |
| 24 | 49,425,000 | 49,575,000 | 660 | 313 | 0.832821855 | DYM |
| 24 | 49,500,000 | 49,650,000 | 661 | 334 | 0.888413778 | C24H18orf32,DYM,RPL17 |
| 24 | 49,575,000 | 49,725,000 | 662 | 332 | 1.142821713 | C24H18orf32,DYM,RPL17 |
| 24 | 49,650,000 | 49,800,000 | 663 | 358 | 0.785668829 | |
| 24 | 49,725,000 | 49,875,000 | 664 | 484 | 0.480431137 | ENSBTAG00000039248 |
| 24 | 49,800,000 | 49,950,000 | 665 | 373 | 0.573261532 | ACAA2,ENSBTAG00000039248 |
| 24 | 49,875,000 | 50,025,000 | 666 | 559 | 1.4592432 | ACAA2,MYO5B |
| 24 | 49,950,000 | 50,100,000 | 667 | 643 | 1.442891074 | MYO5B |
| 24 | 50,025,000 | 50,175,000 | 668 | 521 | -0.653408329 | MYO5B |
| 24 | 50,100,000 | 50,250,000 | 669 | 548 | -1.916410826 | MYO5B |
| 24 | 50,175,000 | 50,325,000 | 670 | 755 | -1.667433036 | CCDC11 |
| 24 | 50,250,000 | 50,400,000 | 671 | 772 | -0.61994015 | CCDC11,MBD1 |
| 24 | 50,325,000 | 50,475,000 | 672 | 438 | 1.101518235 | CCDC11,CXXC1,MBD1,SKA1 |
| 24 | 50,400,000 | 50,550,000 | 673 | 290 | 0.877845399 | CXXC1,SKA1 |
| 24 | 50,475,000 | 50,625,000 | 674 | 376 | -0.466826398 | |
| 24 | 50,550,000 | 50,700,000 | 675 | 687 | -1.400230797 | MAPK4 |
| 24 | 50,625,000 | 50,775,000 | 676 | 874 | 0.108666186 | MAPK4 |
| 24 | 50,700,000 | 50,850,000 | 677 | 879 | 1.068283669 | MAPK4,MRO |
| 24 | 50,775,000 | 50,925,000 | 678 | 736 | 0.91176825 | ME2,MRO |
| 24 | 50,850,000 | 51,000,000 | 679 | 702 | 1.099751385 | ELAC1,ME2,SMAD4 |
| 24 | 50,925,000 | 51,075,000 | 680 | 621 | 0.476483073 | ELAC1,ME2,SMAD4 |
| 24 | 51,000,000 | 51,150,000 | 681 | 487 | -0.237643375 | MEX3C,SMAD4 |
| 24 | 51,075,000 | 51,225,000 | 682 | 637 | 0.807258519 | AP3S1,MEX3C |
| 24 | 51,150,000 | 51,300,000 | 683 | 1047 | 1.039435854 | AP3S1 |
| 24 | 51,225,000 | 51,375,000 | 684 | 1091 | 1.030733653 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 24 | 51,300,000 | 51,450,000 | 685 | 835 | 0.842656612 | |
| 24 | 51,375,000 | 51,525,000 | 686 | 879 | 0.488136259 | |
| 24 | 51,450,000 | 51,600,000 | 687 | 1115 | 0.7485029 | |
| 24 | 51,525,000 | 51,675,000 | 688 | 1254 | 0.947157217 | |
| 24 | 51,600,000 | 51,750,000 | 689 | 1083 | 0.856915283 | |
| 24 | 51,675,000 | 51,825,000 | 690 | 669 | 0.302419184 | |
| 24 | 51,750,000 | 51,900,000 | 691 | 884 | 0.458792123 | |
| 24 | 51,825,000 | 51,975,000 | 692 | 1360 | 0.899841198 | |
| 24 | 51,900,000 | 52,050,000 | 693 | 1410 | 1.097328822 | |
| 24 | 51,975,000 | 52,125,000 | 694 | 1390 | 1.21120654 | |
| 24 | 52,050,000 | 52,200,000 | 695 | 1265 | 0.927305883 | |
| 24 | 52,125,000 | 52,275,000 | 696 | 1086 | -0.613314137 | |
| 24 | 52,200,000 | 52,350,000 | 697 | 989 | -1.053411393 | |
| 24 | 52,275,000 | 52,425,000 | 698 | 1027 | 0.130619643 | |
| 24 | 52,350,000 | 52,500,000 | 699 | 942 | 0.552265573 | |
| 24 | 52,425,000 | 52,575,000 | 700 | 781 | -0.188516814 | |
| 24 | 52,500,000 | 52,650,000 | 701 | 739 | -0.292930873 | |
| 24 | 52,575,000 | 52,725,000 | 702 | 715 | 1.19222459 | |
| 24 | 52,650,000 | 52,800,000 | 703 | 728 | 0.352325457 | |
| 24 | 52,725,000 | 52,875,000 | 704 | 1000 | 0.080883474 | |
| 24 | 52,800,000 | 52,950,000 | 705 | 1075 | 0.634006794 | |
| 24 | 52,875,000 | 53,025,000 | 706 | 688 | 1.060522802 | |
| 24 | 52,950,000 | 53,100,000 | 707 | 399 | 1.103555776 | |
| 24 | 53,025,000 | 53,175,000 | 708 | 595 | 1.399478258 | |
| 24 | 53,100,000 | 53,250,000 | 709 | 1084 | 0.536570726 | |
| 24 | 53,175,000 | 53,325,000 | 710 | 1119 | -0.645494893 | |
| 24 | 53,250,000 | 53,400,000 | 711 | 958 | -1.665551189 | |
| 24 | 53,325,000 | 53,475,000 | 712 | 762 | -2.454260884 | |
| 24 | 53,400,000 | 53,550,000 | 713 | 914 | -0.552117306 | |
| 24 | 53,475,000 | 53,625,000 | 714 | 1397 | 0.827140107 | |
| 24 | 53,550,000 | 53,700,000 | 715 | 1249 | 1.06936964 | |
| 24 | 53,625,000 | 53,775,000 | 716 | 952 | 0.303824149 | |
| 24 | 53,700,000 | 53,850,000 | 717 | 1057 | 0.452581556 | |
| 24 | 53,775,000 | 53,925,000 | 718 | 1308 | 0.662604041 | |
| 24 | 53,850,000 | 54,000,000 | 719 | 1522 | 0.32447882 | |
| 24 | 53,925,000 | 54,075,000 | 720 | 1269 | 0.466390719 | MBD2 |
| 24 | 54,000,000 | 54,150,000 | 721 | 814 | -1.365423873 | MBD2 |
| 24 | 54,075,000 | 54,225,000 | 722 | 907 | -1.137076209 | C18orf54,MBD2,POLI,STARD6 |
| 24 | 54,150,000 | 54,300,000 | 723 | 1069 | 0.96144179 | C18orf54,POLI,STARD6,ENSBTAG00000046901 |
| 24 | 54,225,000 | 54,375,000 | 724 | 990 | 1.292339982 | C18orf54,ENSBTAG00000046901 |
| 24 | 54,300,000 | 54,450,000 | 725 | 1159 | 0.589790705 | |
| 24 | 54,375,000 | 54,525,000 | 726 | 1449 | -0.191183128 | ENSBTAG00000013871 |
| 24 | 54,450,000 | 54,600,000 | 727 | 1616 | 0.343042733 | RAB27B,ENSBTAG00000013871 |
| 24 | 54,525,000 | 54,675,000 | 728 | 1637 | 1.177988246 | RAB27B |
| 24 | 54,600,000 | 54,750,000 | 729 | 1098 | 1.116596413 | CCDC68,RAB27B |
| 24 | 54,675,000 | 54,825,000 | 730 | 955 | -0.179386599 | CCDC68,RAB27B |
| 24 | 54,750,000 | 54,900,000 | 731 | 986 | -0.127937415 | CCDC68 |
| 24 | 54,825,000 | 54,975,000 | 732 | 578 | 0.345925404 | |
| 24 | 54,900,000 | 55,050,000 | 733 | 623 | 0.245257773 | |
| 24 | 54,975,000 | 55,125,000 | 734 | 529 | -0.713972 | TCF7L2 |
| 24 | 55,050,000 | 55,200,000 | 735 | 249 | -3.058506204 | TCF7L2 |
| 24 | 55,125,000 | 55,275,000 | 736 | 240 | -2.505705962 | TCF7L2 |
| 24 | 55,200,000 | 55,350,000 | 737 | 254 | -0.764307211 | TCF7L2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 24 | 55,275,000 | 55,425,000 | 738 | 264 | -0.724435523 | TCF7L2 |
| 24 | 55,350,000 | 55,500,000 | 739 | 440 | -0.558376505 | TCF7L2 |
| 24 | 55,425,000 | 55,575,000 | 740 | 642 | -0.664075013 | TCF7L2 |
| 24 | 55,500,000 | 55,650,000 | 741 | 663 | 0.263813641 | |
| 24 | 55,575,000 | 55,725,000 | 742 | 600 | 1.07529468 | |
| 24 | 55,650,000 | 55,800,000 | 743 | 505 | 0.7312435 | |
| 24 | 55,725,000 | 55,875,000 | 744 | 486 | 0.512356828 | |
| 24 | 55,800,000 | 55,950,000 | 745 | 663 | 0.671951531 | |
| 24 | 55,875,000 | 56,025,000 | 746 | 1098 | 0.647951383 | |
| 24 | 55,950,000 | 56,100,000 | 747 | 1220 | 0.41527063 | |
| 24 | 56,025,000 | 56,175,000 | 748 | 1091 | 0.060214177 | |
| 24 | 56,100,000 | 56,250,000 | 749 | 801 | -0.715504681 | |
| 24 | 56,175,000 | 56,325,000 | 750 | 481 | -1.769238616 | |
| 24 | 56,250,000 | 56,400,000 | 751 | 380 | -0.507187847 | |
| 24 | 56,325,000 | 56,475,000 | 752 | 444 | -2.285481206 | TXNL1,WDR7 |
| 24 | 56,400,000 | 56,550,000 | 753 | 507 | -2.003618979 | TXNL1,WDR7 |
| 24 | 56,475,000 | 56,625,000 | 754 | 504 | 0.165766957 | WDR7 |
| 24 | 56,550,000 | 56,700,000 | 755 | 619 | 0.317020677 | WDR7 |
| 24 | 56,625,000 | 56,775,000 | 756 | 652 | -0.048205492 | WDR7 |
| 24 | 56,700,000 | 56,850,000 | 757 | 669 | -0.203324717 | WDR7 |
| 24 | 56,775,000 | 56,925,000 | 758 | 678 | -0.334826749 | WDR7 |
| 24 | 56,850,000 | 57,000,000 | 759 | 597 | -0.275585188 | |
| 24 | 56,925,000 | 57,075,000 | 760 | 622 | 0.57985018 | |
| 24 | 57,000,000 | 57,150,000 | 761 | 694 | 0.946078297 | ST8SIA3 |
| 24 | 57,075,000 | 57,225,000 | 762 | 580 | 1.066116384 | ONECUT2,ST8SIA3 |
| 24 | 57,150,000 | 57,300,000 | 763 | 462 | 0.712434089 | FECH,ONECUT2 |
| 24 | 57,225,000 | 57,375,000 | 764 | 446 | 0.795354496 | FECH,ONECUT2,ENSBTAG00000019271 |
| 24 | 57,300,000 | 57,450,000 | 765 | 566 | 0.989886183 | ATP8B1,FECH,ENSBTAG00000019271 |
| 24 | 57,375,000 | 57,525,000 | 766 | 608 | 0.81743004 | ATP8B1 |
| 24 | 57,450,000 | 57,600,000 | 767 | 554 | 0.725845392 | ATP8B1 |
| 24 | 57,525,000 | 57,675,000 | 768 | 525 | 0.362653596 | |
| 24 | 57,600,000 | 57,750,000 | 769 | 639 | -0.570395333 | |
| 24 | 57,675,000 | 57,825,000 | 770 | 829 | -0.54004859 | |
| 24 | 57,750,000 | 57,900,000 | 771 | 758 | -0.051626847 | |
| 24 | 57,825,000 | 57,975,000 | 772 | 576 | 0.556009967 | NEDD4L |
| 24 | 57,900,000 | 58,050,000 | 773 | 522 | -0.696022534 | NEDD4L |
| 24 | 57,975,000 | 58,125,000 | 774 | 920 | -0.443084758 | ALPK2,NEDD4L |
| 24 | 58,050,000 | 58,200,000 | 775 | 1166 | 0.345524708 | ALPK2,NEDD4L |
| 24 | 58,125,000 | 58,275,000 | 776 | 784 | 0.935170881 | ALPK2 |
| 24 | 58,200,000 | 58,350,000 | 777 | 495 | 1.080231711 | ALPK2,MALT1 |
| 24 | 58,275,000 | 58,425,000 | 778 | 580 | 0.063530946 | MALT1 |
| 24 | 58,350,000 | 58,500,000 | 779 | 691 | -0.083167307 | ZNF532 |
| 24 | 58,425,000 | 58,575,000 | 780 | 987 | -0.869293267 | ZNF532,ENSBTAG00000022829 |
| 24 | 58,500,000 | 58,650,000 | 781 | 1251 | -0.316703227 | ZNF532,ENSBTAG00000022829 |
| 24 | 58,575,000 | 58,725,000 | 782 | 1268 | 0.855528419 | GRP,SEC11C,ENSBTAG00000022829 |
| 24 | 58,650,000 | 58,800,000 | 783 | 1028 | 0.850108972 | CPLX4,GRP,LMAN1,RAX,SEC11C |
| 24 | 58,725,000 | 58,875,000 | 784 | 740 | 0.364777029 | CPLX4,LMAN1,RAX |
| 24 | 58,800,000 | 58,950,000 | 785 | 843 | 0.346068886 | CCBE1,LMAN1 |
| 24 | 58,875,000 | 59,025,000 | 786 | 1027 | -0.260579972 | CCBE1 |
| 24 | 58,950,000 | 59,100,000 | 787 | 1318 | -1.407067124 | |
| 24 | 59,025,000 | 59,175,000 | 788 | 1362 | -1.086394969 | |
| 24 | 59,100,000 | 59,250,000 | 789 | 1097 | -0.33828577 | |
| 24 | 59,175,000 | 59,325,000 | 790 | 877 | -0.358412146 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 24 | 59,250,000 | 59,400,000 | 791 | 884 | -1.09453045 | |
| 24 | 59,325,000 | 59,475,000 | 792 | 1319 | -0.093192125 | |
| 24 | 59,400,000 | 59,550,000 | 793 | 1508 | 0.598008684 | |
| 24 | 59,475,000 | 59,625,000 | 794 | 942 | 0.628443522 | |
| 24 | 59,550,000 | 59,700,000 | 795 | 553 | 0.705903297 | MC4R |
| 24 | 59,625,000 | 59,775,000 | 796 | 626 | 0.952660373 | MC4R |
| 24 | 59,700,000 | 59,850,000 | 797 | 838 | 0.462150328 | ENSBTAG00000000531 |
| 24 | 59,775,000 | 59,925,000 | 798 | 1050 | 0.236512656 | ENSBTAG00000000531 |
| 24 | 59,850,000 | 60,000,000 | 799 | 745 | 0.611792923 | |
| 24 | 59,925,000 | 60,075,000 | 800 | 595 | -0.488166251 | |
| 24 | 60,000,000 | 60,150,000 | 801 | 884 | 0.413610911 | |
| 24 | 60,075,000 | 60,225,000 | 802 | 868 | 1.051100018 | |
| 24 | 60,150,000 | 60,300,000 | 803 | 582 | 0.834774316 | |
| 24 | 60,225,000 | 60,375,000 | 804 | 437 | 0.131043242 | ENSBTAG00000047569 |
| 24 | 60,300,000 | 60,450,000 | 805 | 671 | 0.562217203 | ENSBTAG00000047569 |
| 24 | 60,375,000 | 60,525,000 | 806 | 700 | 0.880659645 | |
| 24 | 60,450,000 | 60,600,000 | 807 | 957 | 0.438701185 | CDH20 |
| 24 | 60,525,000 | 60,675,000 | 808 | 1131 | 0.021027528 | CDH20 |
| 24 | 60,600,000 | 60,750,000 | 809 | 794 | -0.544300245 | |
| 24 | 60,675,000 | 60,825,000 | 810 | 962 | 0.213255035 | |
| 24 | 60,750,000 | 60,900,000 | 811 | 1072 | 0.398022227 | |
| 24 | 60,825,000 | 60,975,000 | 812 | 984 | 0.499102185 | |
| 24 | 60,900,000 | 61,050,000 | 813 | 909 | 0.334638397 | PIGN |
| 24 | 60,975,000 | 61,125,000 | 814 | 681 | -0.587148602 | KIAA1468,PIGN |
| 24 | 61,050,000 | 61,200,000 | 815 | 444 | -1.43625636 | KIAA1468,PIGN |
| 24 | 61,125,000 | 61,275,000 | 816 | 512 | -0.938866109 | KIAA1468,TNFRSF11A |
| 24 | 61,200,000 | 61,350,000 | 817 | 944 | -1.206815179 | KIAA1468,TNFRSF11A |
| 24 | 61,275,000 | 61,425,000 | 818 | 854 | -1.074383186 | TNFRSF11A |
| 24 | 61,350,000 | 61,500,000 | 819 | 712 | -0.0684266 | |
| 24 | 61,425,000 | 61,575,000 | 820 | 790 | 0.326052452 | |
| 24 | 61,500,000 | 61,650,000 | 821 | 814 | 0.631283862 | |
| 24 | 61,575,000 | 61,725,000 | 822 | 653 | 0.522537884 | PHLPP1 |
| 24 | 61,650,000 | 61,800,000 | 823 | 457 | 0.106724208 | PHLPP1 |
| 24 | 61,725,000 | 61,875,000 | 824 | 671 | 0.07581522 | PHLPP1 |
| 24 | 61,800,000 | 61,950,000 | 825 | 737 | 0.083588772 | BCL2 |
| 24 | 61,875,000 | 62,025,000 | 826 | 689 | 0.026509693 | BCL2 |
| 24 | 61,950,000 | 62,100,000 | 827 | 576 | 0.444729906 | BCL2 |
| 24 | 62,025,000 | 62,175,000 | 828 | 407 | 1.018325892 | BCL2,KDSR |
| 24 | 62,100,000 | 62,250,000 | 829 | 708 | 1.078690175 | BCL2,KDSR,SERPINB5,VPS4B |
| 24 | 62,175,000 | 62,325,000 | 830 | 1195 | 0.700850169 | SERPINB12,SERPINB5,VPS4B |
| 24 | 62,250,000 | 62,400,000 | 831 | 1114 | 0.107948074 | HMSD,SERPINB12,SERPINB13,SERPINB4,SERPINB5,ENSBTAG00000037554 |
| 24 | 62,325,000 | 62,475,000 | 832 | 1331 | 0.307562844 | HMSD,SERPINB12,SERPINB13,SERPINB4,ENSBTAG00000035224,ENSBTAG00000037554,ENSBTAG00000040586 |
| 24 | 62,400,000 | 62,550,000 | 833 | 1350 | 0.051313781 | SERPINB7,ENSBTAG0000005324,ENSBTAG00000035224,ENSBTAG00000037554,ENSBTAG00000040586 |
| 24 | 62,475,000 | 62,625,000 | 834 | 866 | -0.954635983 | SERPINB10,SERPINB2,SERPINB7,ENSBTAG0000005324 |
| 24 | 62,550,000 | 62,700,000 | 835 | 1046 | -0.215708849 | SERPINB10,SERPINB2 |
| 24 | 62,625,000 | 62,714,930 | 836 | 684 | -0.548723005 | SERPINB10 |
| 25 | 0 | 150,000 | 1 | 317 | -1.535199031 | IL9R,MPG,NPRL3,POLR3K,RHBDF1,SNRNP25 |
| 25 | 75,000 | 225,000 | 2 | 312 | -2.242253494 | HBA,HBM,HBQ1,IL9R,MPG,NPRL3,POLR3K,RHBDF1,SNRN P25,ENSBTAG00000032198,ENSBTAG00000034024,ENSBTAG00000038921 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 25 | 150,000 | 300,000 | 3 | 295 | -0.28975295 | HBA,HBM,HBQ1,ITFG3,LUC7L,NPRL3,RGS11,ENSBTAG0000032198,ENSBTAG00000034024,ENSBTAG00000038921 |
| 25 | 225,000 | 375,000 | 4 | 364 | 0.859543421 | ARHGDIG,AXIN1,ITFG3,LUC7L,MRPL28,PDIA2,RGS11,TMEM8 |
| 25 | 300,000 | 450,000 | 5 | 353 | 1.045147651 | ARHGDIG,AXIN1,DECR2,MRPL28,NME4,PDIA2,RAB11FIP3,TMEM8 |
| 25 | 375,000 | 525,000 | 6 | 321 | 1.076834974 | CAPN15,DECR2,NHLRC4,NME4,PIGQ,PRR35,RAB11FIP3,RAB40C |
| 25 | 450,000 | 600,000 | 7 | 252 | 1.057875879 | C25H16ORF13,CAPN15,FAM195A,FBXL16,JMJD8,NHLRC4,PIGQ,PRR35,RAB11FIP3,RAB40C,RHBDL1,RHOT2,STUB1,WDR24,WDR90,WFIKKN1,ENSBTAG00000038330 |
| 25 | 525,000 | 675,000 | 8 | 486 | 1.410545655 | C25H16ORF13,CCDC78,CHTF18,FAM173A,FAM195A,FBXL16,HAGHL,JMJD8,METRNL,MSLN,MSLNL,NARFL,RAB40C,RHBDL1,RHOT2,RPUSD1,STUB1,WDR24,WDR90,WFIKKN1,ENSBTAG00000038330 |
| 25 | 600,000 | 750,000 | 9 | 714 | 1.335173898 | CCDC78,CHTF18,FAM173A,FBXL16,GNG13,HAGHL,LMF1,METRNL,MSLN,MSLNL,NARFL,RPUSD1 |
| 25 | 675,000 | 825,000 | 10 | 523 | 0.980220322 | CHTF18,GNG13,LMF1,SOX8 |
| 25 | 750,000 | 900,000 | 11 | 502 | 0.776310469 | C1QTNF8,LMF1,SOX8,SSTR5,TEKT4 |
| 25 | 825,000 | 975,000 | 12 | 632 | 0.792473604 | C1QTNF8,CACNA1H,SSTR5,TEKT4 |
| 25 | 900,000 | 1,050,000 | 13 | 700 | 0.259764993 | CACNA1H,TPSB1,UBE2I,ENSBTAG00000046722,ENSBTAG00000046965 |
| 25 | 975,000 | 1,125,000 | 14 | 1011 | -0.529379178 | BAIAP3,C25H16ORF42,CACNA1H,CCSMST1,GNPTG,TPSB1,UBE2I,UNKL,ENSBTAG00000046722,ENSBTAG00000046965 |
| 25 | 1,050,000 | 1,200,000 | 15 | 1012 | -0.141663725 | BAIAP3,C25H16ORF42,CCDC154,CCSMST1,CLCN7,GNPTG,IFT140,PTX4,TELO2,TMEM204,UNKL |
| 25 | 1,125,000 | 1,275,000 | 16 | 695 | 0.806464119 | CCDC154,CLCN7,CRAMP1L,IFT140,PTX4,TELO2,TMEM204 |
| 25 | 1,200,000 | 1,350,000 | 17 | 695 | 0.145938902 | CRAMP1L,HN1L,IFT140,MAPK8IP3,MRPS34,NME3,TMEM204 |
| 25 | 1,275,000 | 1,425,000 | 18 | 691 | -0.260585934 | CRAMP1L,EME2,FAHD1,HAGH,HN1L,IGFALS,MAPK8IP3,MEIOB,MRPS34,NME3,NUBP2,SPSB3,TPT1 |
| 25 | 1,350,000 | 1,500,000 | 19 | 831 | -0.738636596 | EME2,FAHD1,HAGH,HS3ST6,IGFALS,MEIOB,MRPS34,NUBP2,SPSB3,TPT1 |
| 25 | 1,425,000 | 1,575,000 | 20 | 765 | -0.334251696 | GFER,HS3ST6,MEIOB,NDUFB10,NOXO1,NPW,RNF151,RPL3L,RPS2,SYNGR3,TBL3,ZNF598 |
| 25 | 1,500,000 | 1,650,000 | 21 | 407 | 0.929479281 | GFER,NDUFB10,NOXO1,NPW,NTHL1,PKD1,RNF151,RPL3L,RPS2,SLC9A3R2,SYNGR3,TBL3,TSC2,ZNF598 |
| 25 | 1,575,000 | 1,725,000 | 22 | 400 | 0.44383894 | CASKIN1,NTHL1,PKD1,RAB26,SLC9A3R2,TRAF7,TSC2 |
| 25 | 1,650,000 | 1,800,000 | 23 | 587 | 0.855678485 | ABCA3,BRICD5,CASKIN1,DNASE1L2,E4F1,ECI1,MLST8,PGP,PKD1,RAB26,RNPS1,TRAF7 |
| 25 | 1,725,000 | 1,875,000 | 24 | 703 | 0.876852606 | ABCA3,BRICD5,CASKIN1,DNASE1L2,E4F1,ECI1,MLST8,PGP,RNPS1,ENSBTAG00000034643 |
| 25 | 1,800,000 | 1,950,000 | 25 | 674 | 0.469466332 | ABCA3,CCNF,ENSBTAG00000034643 |
| 25 | 1,875,000 | 2,025,000 | 26 | 452 | 0.634750009 | AMDHD2,ATP6V0C,C16orf59,CCNF,NTN3,ENSBTAG00000005458,ENSBTAG00000034643 |
| 25 | 1,950,000 | 2,100,000 | 27 | 460 | 0.862589914 | AMDHD2,ATP6V0C,C16orf59,CCNF,NTN3,PDPK1,ENSBTAG00000005458 |
| 25 | 2,025,000 | 2,175,000 | 28 | 654 | 0.517635773 | AMDHD2,KCTD5,PDPK1,PRSS27 |
| 25 | 2,100,000 | 2,250,000 | 29 | 1123 | 0.490412009 | KCTD5,PRSS21,PRSS22,PRSS27,ENSBTAG00000019103,ENSBTAG00000034372,ENSBTAG00000047368 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 25 | 2,175,000 | 2,325,000 | 30 | 1030 | 0.360289651 | FLYWCH2,PRSS21,PRSS22,PRSS33,SRRM2,TCEB2,ENSBTA G00000019103,ENSBTAG000000034372,ENSBTAG00000003 8568,ENSBTAG000000047368 |
| 25 | 2,250,000 | 2,400,000 | 31 | 350 | 0.070124667 | FLYWCH1,FLYWCH2,KREMEN2,PAQR4,PKMYT1,PRSS33,SR RM2,TCEB2,ENSBTAG000000038568 |
| 25 | 2,325,000 | 2,475,000 | 32 | 274 | 1.107212801 | CCDC64B,CLDN6,CLDN9,FLYWCH1,FLYWCH2,HCFC1R1,K REMEN2,PAQR4,PKMYT1,THOC6,TNFRSF12A |
| 25 | 2,400,000 | 2,550,000 | 33 | 733 | 0.353662673 | CCDC64B,CLDN6,CLDN9,HCFC1R1,MMP25,THOC6,TNFRS F12A,ZSCAN10 |
| 25 | 2,475,000 | 2,625,000 | 34 | 763 | -0.249183336 | CASP16,MMP25,ZNF205,ZNF213,ZSCAN10 |
| 25 | 2,550,000 | 2,700,000 | 35 | 632 | -0.929380613 | CASP16,MEFV,ZNF200,ZNF205,ZNF213,ENSBTAG0000004 0438,ENSBTAG000000046326,ENSBTAG000000047634 |
| 25 | 2,625,000 | 2,775,000 | 36 | 845 | -0.605202327 | MEFV,TIGD7,ZNF200,ZNF263,ZNF75A,ENSBTAG00000040 438,ENSBTAG000000046326,ENSBTAG000000047634 |
| 25 | 2,700,000 | 2,850,000 | 37 | 1019 | 0.062613678 | MEFV,OR2C1,TIGD7,ZNF174,ZNF263,ZNF75A |
| 25 | 2,775,000 | 2,925,000 | 38 | 875 | 0.903098409 | C16orf90,CLUAP1,NAT15,OR2C1,ZNF174,ZNF597 |
| 25 | 2,850,000 | 3,000,000 | 39 | 381 | 1.209479386 | C16orf90,CLUAP1,DNASE1,NAT15,NLRC3,SLX4,TRAP1,ZNF 597 |
| 25 | 2,925,000 | 3,075,000 | 40 | 262 | 0.700457894 | CREBBP,DNASE1,NLRC3,SLX4,TRAP1 |
| 25 | 3,000,000 | 3,150,000 | 41 | 338 | -0.610828638 | CREBBP,TRAP1 |
| 25 | 3,075,000 | 3,225,000 | 42 | 329 | -0.685347595 | CREBBP |
| 25 | 3,150,000 | 3,300,000 | 43 | 265 | -0.017408378 | ADCY9,CREBBP |
| 25 | 3,225,000 | 3,375,000 | 44 | 284 | -0.279974631 | ADCY9 |
| 25 | 3,300,000 | 3,450,000 | 45 | 474 | -0.353378808 | ADCY9,SRL,TFAP4 |
| 25 | 3,375,000 | 3,525,000 | 46 | 479 | -0.523817913 | CORO7,GLIS2,PAM16,SRL,TFAP4,VASN |
| 25 | 3,450,000 | 3,600,000 | 47 | 421 | 0.456753234 | CORO7,DNAJA3,GLIS2,PAM16,TFAP4,VASN |
| 25 | 3,525,000 | 3,675,000 | 48 | 496 | 0.948340959 | CDIP1,CORO7,DNAJA3,HMOX2,NMRAL1,VASN |
| 25 | 3,600,000 | 3,750,000 | 49 | 645 | 0.800285551 | CDIP1,DNAJA3,HMOX2,MGC142811,NMRAL1,ENSBTAG00 000047316 |
| 25 | 3,675,000 | 3,825,000 | 50 | 638 | 0.864886029 | ANKS3,C25H16ORF71,MGC142811,MGRN1,NUDT16L1,EN SBTAG000000047316 |
| 25 | 3,750,000 | 3,900,000 | 51 | 428 | 0.425267491 | ANKS3,C25H16ORF71,MGRN1,NUDT16L1,ROGDI,SEPT12, ZNF500 |
| 25 | 3,825,000 | 3,975,000 | 52 | 314 | -0.080693455 | C25H16ORF71,GLYR1,PPL,ROGDI,SEPT12,UBN1,ZNF500 |
| 25 | 3,900,000 | 4,050,000 | 53 | 559 | 0.529706572 | GLYR1,PPL,ROGDI,SEC14L5,UBN1 |
| 25 | 3,975,000 | 4,125,000 | 54 | 733 | 0.162652098 | ALG1,C16orf89,FAM86A,NAGPA,PPL,SEC14L5 |
| 25 | 4,050,000 | 4,200,000 | 55 | 569 | -0.841231838 | ALG1,C16orf89,FAM86A,NAGPA,SEC14L5,ENSBTAG00000 026383 |
| 25 | 4,125,000 | 4,275,000 | 56 | 805 | -1.758662467 | FAM86A,ENSBTAG000000026383 |
| 25 | 4,200,000 | 4,350,000 | 57 | 1235 | -0.963477978 | |
| 25 | 4,275,000 | 4,425,000 | 58 | 1515 | 0.217866503 | |
| 25 | 4,350,000 | 4,500,000 | 59 | 1485 | 0.597420261 | |
| 25 | 4,425,000 | 4,575,000 | 60 | 1055 | 0.252734795 | |
| 25 | 4,500,000 | 4,650,000 | 61 | 844 | -0.313149376 | |
| 25 | 4,575,000 | 4,725,000 | 62 | 954 | 0.011479712 | |
| 25 | 4,650,000 | 4,800,000 | 63 | 1023 | 0.377286919 | |
| 25 | 4,725,000 | 4,875,000 | 64 | 891 | 0.744926835 | |
| 25 | 4,800,000 | 4,950,000 | 65 | 631 | 1.112461533 | |
| 25 | 4,875,000 | 5,025,000 | 66 | 564 | 1.209945568 | |
| 25 | 4,950,000 | 5,100,000 | 67 | 480 | 0.890686929 | |
| 25 | 5,025,000 | 5,175,000 | 68 | 831 | 1.077251351 | |
| 25 | 5,100,000 | 5,250,000 | 69 | 1188 | 0.557229114 | |
| 25 | 5,175,000 | 5,325,000 | 70 | 791 | -0.263464539 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--------------------------------|
| 25 | 5,250,000 | 5,400,000 | 71 | 817 | 0.590011135 | |
| 25 | 5,325,000 | 5,475,000 | 72 | 840 | 0.737070657 | |
| 25 | 5,400,000 | 5,550,000 | 73 | 804 | -0.095234931 | |
| 25 | 5,475,000 | 5,625,000 | 74 | 851 | -0.728599819 | |
| 25 | 5,550,000 | 5,700,000 | 75 | 861 | 0.78234199 | |
| 25 | 5,625,000 | 5,775,000 | 76 | 1116 | 0.619373772 | |
| 25 | 5,700,000 | 5,850,000 | 77 | 901 | -0.164069094 | |
| 25 | 5,775,000 | 5,925,000 | 78 | 862 | -0.221825997 | |
| 25 | 5,850,000 | 6,000,000 | 79 | 944 | -0.303192504 | |
| 25 | 5,925,000 | 6,075,000 | 80 | 695 | -0.14871265 | |
| 25 | 6,000,000 | 6,150,000 | 81 | 1051 | 0.306538415 | |
| 25 | 6,075,000 | 6,225,000 | 82 | 1107 | 0.330955747 | |
| 25 | 6,150,000 | 6,300,000 | 83 | 786 | 0.330101787 | |
| 25 | 6,225,000 | 6,375,000 | 84 | 892 | 0.225346769 | |
| 25 | 6,300,000 | 6,450,000 | 85 | 966 | -0.698593936 | |
| 25 | 6,375,000 | 6,525,000 | 86 | 1046 | -0.159809148 | RBFOX1 |
| 25 | 6,450,000 | 6,600,000 | 87 | 827 | 0.795192749 | RBFOX1 |
| 25 | 6,525,000 | 6,675,000 | 88 | 695 | 0.253849608 | RBFOX1 |
| 25 | 6,600,000 | 6,750,000 | 89 | 1288 | -0.958057865 | RBFOX1 |
| 25 | 6,675,000 | 6,825,000 | 90 | 1501 | -0.216500015 | RBFOX1 |
| 25 | 6,750,000 | 6,900,000 | 91 | 1188 | 1.116345099 | |
| 25 | 6,825,000 | 6,975,000 | 92 | 1073 | 0.531070006 | |
| 25 | 6,900,000 | 7,050,000 | 93 | 898 | 0.405218568 | |
| 25 | 6,975,000 | 7,125,000 | 94 | 708 | 0.956202476 | |
| 25 | 7,050,000 | 7,200,000 | 95 | 652 | -1.006461215 | |
| 25 | 7,125,000 | 7,275,000 | 96 | 821 | -0.902746833 | |
| 25 | 7,200,000 | 7,350,000 | 97 | 839 | 0.746483582 | |
| 25 | 7,275,000 | 7,425,000 | 98 | 913 | -0.277880604 | |
| 25 | 7,350,000 | 7,500,000 | 99 | 1054 | -0.372644464 | |
| 25 | 7,425,000 | 7,575,000 | 100 | 881 | 0.407858772 | METTTL22,TMEM114 |
| 25 | 7,500,000 | 7,650,000 | 101 | 872 | 0.328765029 | ABAT,METTTL22,TMEM114 |
| 25 | 7,575,000 | 7,725,000 | 102 | 726 | -0.009017944 | ABAT,METTTL22,PMM2,TMEM186 |
| 25 | 7,650,000 | 7,800,000 | 103 | 526 | 0.301592252 | ABAT,CARHSP1,PMM2,TMEM186,USP7 |
| 25 | 7,725,000 | 7,875,000 | 104 | 662 | 0.884210392 | CARHSP1,PMM2,USP7 |
| 25 | 7,800,000 | 7,950,000 | 105 | 784 | 0.452367808 | C25H16ORF72 |
| 25 | 7,875,000 | 8,025,000 | 106 | 846 | 0.48478037 | C25H16ORF72 |
| 25 | 7,950,000 | 8,100,000 | 107 | 858 | 0.409027206 | C25H16ORF72 |
| 25 | 8,025,000 | 8,175,000 | 108 | 900 | -0.537690614 | |
| 25 | 8,100,000 | 8,250,000 | 109 | 992 | -1.082900221 | |
| 25 | 8,175,000 | 8,325,000 | 110 | 1007 | -1.343627511 | |
| 25 | 8,250,000 | 8,400,000 | 111 | 867 | -0.484599688 | |
| 25 | 8,325,000 | 8,475,000 | 112 | 714 | 0.097112411 | |
| 25 | 8,400,000 | 8,550,000 | 113 | 840 | -0.975132636 | |
| 25 | 8,475,000 | 8,625,000 | 114 | 716 | -0.789275339 | GRIN2A |
| 25 | 8,550,000 | 8,700,000 | 115 | 612 | -0.183194329 | GRIN2A |
| 25 | 8,625,000 | 8,775,000 | 116 | 1163 | 0.068559265 | GRIN2A |
| 25 | 8,700,000 | 8,850,000 | 117 | 1730 | 0.433621889 | |
| 25 | 8,775,000 | 8,925,000 | 118 | 1854 | 0.668922958 | |
| 25 | 8,850,000 | 9,000,000 | 119 | 1522 | 0.428038604 | ENSBTAG00000045680 |
| 25 | 8,925,000 | 9,075,000 | 120 | 1421 | -0.067154846 | ENSBTAG00000045680 |
| 25 | 9,000,000 | 9,150,000 | 121 | 1422 | -0.474159262 | |
| 25 | 9,075,000 | 9,225,000 | 122 | 1165 | -0.715105713 | |
| 25 | 9,150,000 | 9,300,000 | 123 | 783 | -0.070420456 | ATF7IP2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 25 | 9,225,000 | 9,375,000 | 124 | 1052 | 0.862759677 | ATF7IP2,EMP2 |
| 25 | 9,300,000 | 9,450,000 | 125 | 1656 | 0.668156056 | EMP2,TEKT5 |
| 25 | 9,375,000 | 9,525,000 | 126 | 1450 | 0.426980333 | NUBP1,TEKT5,TVP23A |
| 25 | 9,450,000 | 9,600,000 | 127 | 1224 | 0.802989621 | NUBP1,TEKT5,TVP23A |
| 25 | 9,525,000 | 9,675,000 | 128 | 1428 | 0.979480472 | CIITA,DEXI |
| 25 | 9,600,000 | 9,750,000 | 129 | 1134 | 0.695818667 | CIITA,CLEC16A,DEXI |
| 25 | 9,675,000 | 9,825,000 | 130 | 581 | 0.309847692 | CLEC16A,DEXI |
| 25 | 9,750,000 | 9,900,000 | 131 | 498 | 0.663792185 | CLEC16A |
| 25 | 9,825,000 | 9,975,000 | 132 | 612 | 0.604369198 | CLEC16A |
| 25 | 9,900,000 | 10,050,000 | 133 | 700 | 0.388817194 | CLEC16A,PRM1,PRM2,PRM3,SOCS1,TNP2 |
| 25 | 9,975,000 | 10,125,000 | 134 | 858 | 0.60567629 | PRM1,PRM2,PRM3,RMI2,SOCS1,TNP2 |
| 25 | 10,050,000 | 10,200,000 | 135 | 1135 | 0.756235286 | RMI2,ENSBTAG00000013305 |
| 25 | 10,125,000 | 10,275,000 | 136 | 1131 | 0.592543385 | ENSBTAG00000013305 |
| 25 | 10,200,000 | 10,350,000 | 137 | 898 | 0.296493312 | LITAF,ENSBTAG00000013305 |
| 25 | 10,275,000 | 10,425,000 | 138 | 690 | -0.31803673 | LITAF,SNN |
| 25 | 10,350,000 | 10,500,000 | 139 | 929 | 0.276305845 | SNN,TXNDC11,ZC3H7A |
| 25 | 10,425,000 | 10,575,000 | 140 | 1033 | 0.582791994 | SNN,TXNDC11,ZC3H7A |
| 25 | 10,500,000 | 10,650,000 | 141 | 807 | 0.884422478 | BCAR4,GSPT1,RSL1D1,ZC3H7A |
| 25 | 10,575,000 | 10,725,000 | 142 | 710 | 1.09060955 | BCAR4,GSPT1,RSL1D1,ENSBTAG00000007295 |
| 25 | 10,650,000 | 10,800,000 | 143 | 845 | 0.740282088 | GSPT1,SNX29,ENSBTAG00000007295 |
| 25 | 10,725,000 | 10,875,000 | 144 | 1070 | 0.261275895 | SNX29 |
| 25 | 10,800,000 | 10,950,000 | 145 | 1463 | -0.273670853 | SNX29 |
| 25 | 10,875,000 | 11,025,000 | 146 | 1592 | -0.214138631 | SNX29 |
| 25 | 10,950,000 | 11,100,000 | 147 | 1305 | 0.439355463 | SNX29 |
| 25 | 11,025,000 | 11,175,000 | 148 | 1252 | 0.121848076 | SNX29 |
| 25 | 11,100,000 | 11,250,000 | 149 | 1292 | -0.285300492 | SNX29 |
| 25 | 11,175,000 | 11,325,000 | 150 | 1336 | -0.497486576 | SNX29 |
| 25 | 11,250,000 | 11,400,000 | 151 | 1198 | -0.343152046 | SNX29 |
| 25 | 11,325,000 | 11,475,000 | 152 | 1161 | 0.435804715 | ENSBTAG00000046216 |
| 25 | 11,400,000 | 11,550,000 | 153 | 1335 | 0.297063881 | CPPED1,ENSBTAG00000046216 |
| 25 | 11,475,000 | 11,625,000 | 154 | 1486 | -0.036429743 | CPPED1 |
| 25 | 11,550,000 | 11,700,000 | 155 | 1225 | -0.700401696 | CPPED1 |
| 25 | 11,625,000 | 11,775,000 | 156 | 819 | -0.115547445 | SHISA9 |
| 25 | 11,700,000 | 11,850,000 | 157 | 1016 | -0.276989304 | SHISA9 |
| 25 | 11,775,000 | 11,925,000 | 158 | 1208 | -0.225310356 | |
| 25 | 11,850,000 | 12,000,000 | 159 | 1307 | 0.43084138 | |
| 25 | 11,925,000 | 12,075,000 | 160 | 1244 | 0.70227852 | |
| 25 | 12,000,000 | 12,150,000 | 161 | 725 | 0.90852981 | |
| 25 | 12,075,000 | 12,225,000 | 162 | 692 | 1.028004824 | |
| 25 | 12,150,000 | 12,300,000 | 163 | 746 | 1.106562145 | |
| 25 | 12,225,000 | 12,375,000 | 164 | 583 | 0.397782412 | |
| 25 | 12,300,000 | 12,450,000 | 165 | 967 | -0.246624841 | |
| 25 | 12,375,000 | 12,525,000 | 166 | 1381 | -0.022395801 | |
| 25 | 12,450,000 | 12,600,000 | 167 | 1174 | 0.313936333 | |
| 25 | 12,525,000 | 12,675,000 | 168 | 882 | 1.133861969 | |
| 25 | 12,600,000 | 12,750,000 | 169 | 875 | 0.52415025 | |
| 25 | 12,675,000 | 12,825,000 | 170 | 653 | 0.023443094 | |
| 25 | 12,750,000 | 12,900,000 | 171 | 501 | 0.608145437 | |
| 25 | 12,825,000 | 12,975,000 | 172 | 639 | 0.835902945 | ERCC4,ENSBTAG00000032643 |
| 25 | 12,900,000 | 13,050,000 | 173 | 710 | 0.805251678 | ERCC4,ENSBTAG00000032643 |
| 25 | 12,975,000 | 13,125,000 | 174 | 567 | 0.575084273 | MKL2,ENSBTAG00000026365 |
| 25 | 13,050,000 | 13,200,000 | 175 | 319 | -1.120499567 | MKL2,ENSBTAG00000026365 |
| 25 | 13,125,000 | 13,275,000 | 176 | 268 | -0.684709876 | MKL2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 25 | 13,200,000 | 13,350,000 | 177 | 430 | -0.108797275 | MKL2 |
| 25 | 13,275,000 | 13,425,000 | 178 | 731 | 0.002840167 | MKL2 |
| 25 | 13,350,000 | 13,500,000 | 179 | 835 | -0.152054192 | PARN |
| 25 | 13,425,000 | 13,575,000 | 180 | 866 | -0.576249291 | PARN |
| 25 | 13,500,000 | 13,650,000 | 181 | 898 | -0.313843295 | BFAR,PARN |
| 25 | 13,575,000 | 13,725,000 | 182 | 1013 | 0.19461469 | BFAR,PARN,PLA2G10 |
| 25 | 13,650,000 | 13,800,000 | 183 | 920 | 0.212892027 | BFAR,PLA2G10,RRN3 |
| 25 | 13,725,000 | 13,875,000 | 184 | 541 | 0.570954362 | NTAN1,PDXDC1,RRN3 |
| 25 | 13,800,000 | 13,950,000 | 185 | 595 | 0.737390566 | NTAN1,PDXDC1,RRN3,ENSBTAG00000047520 |
| 25 | 13,875,000 | 14,025,000 | 186 | 956 | 0.476148542 | MGC140681,PDXDC1,ENSBTAG00000047520 |
| 25 | 13,950,000 | 14,100,000 | 187 | 785 | 0.59884413 | MGC140681 |
| 25 | 14,025,000 | 14,175,000 | 188 | 478 | -0.348938482 | MARF1,MGC140681 |
| 25 | 14,100,000 | 14,250,000 | 189 | 674 | -0.856017342 | MARF1,MGC140681,MYH11,NDE1 |
| 25 | 14,175,000 | 14,325,000 | 190 | 989 | -0.162315557 | MYH11,NDE1 |
| 25 | 14,250,000 | 14,400,000 | 191 | 791 | -0.000300658 | FOPNL,MYH11 |
| 25 | 14,325,000 | 14,475,000 | 192 | 452 | 0.049229028 | ABCC1,FOPNL,MYH11 |
| 25 | 14,400,000 | 14,550,000 | 193 | 559 | 0.124956434 | ABCC1 |
| 25 | 14,475,000 | 14,625,000 | 194 | 715 | -0.026748059 | ABCC1,ABCC6 |
| 25 | 14,550,000 | 14,700,000 | 195 | 851 | 0.197874773 | ABCC1,ABCC6,ENSBTAG00000017759 |
| 25 | 14,625,000 | 14,775,000 | 196 | 784 | 0.664594935 | ABCC6,ENSBTAG00000017759 |
| 25 | 14,700,000 | 14,850,000 | 197 | 616 | 1.060231357 | ENSBTAG00000017759 |
| 25 | 14,775,000 | 14,925,000 | 198 | 730 | 1.347233719 | |
| 25 | 14,850,000 | 15,000,000 | 199 | 690 | 1.116643748 | |
| 25 | 14,925,000 | 15,075,000 | 200 | 478 | -1.557676661 | |
| 25 | 15,000,000 | 15,150,000 | 201 | 725 | -1.845959715 | |
| 25 | 15,075,000 | 15,225,000 | 202 | 1014 | -0.111988688 | |
| 25 | 15,150,000 | 15,300,000 | 203 | 1034 | 0.384685987 | |
| 25 | 15,225,000 | 15,375,000 | 204 | 1037 | 0.415162235 | |
| 25 | 15,300,000 | 15,450,000 | 205 | 983 | 0.807726551 | |
| 25 | 15,375,000 | 15,525,000 | 206 | 1065 | 0.160119691 | |
| 25 | 15,450,000 | 15,600,000 | 207 | 1216 | 0.108163116 | |
| 25 | 15,525,000 | 15,675,000 | 208 | 1053 | 0.654199294 | |
| 25 | 15,600,000 | 15,750,000 | 209 | 805 | -0.282255666 | |
| 25 | 15,675,000 | 15,825,000 | 210 | 989 | -0.445415845 | XYLT1 |
| 25 | 15,750,000 | 15,900,000 | 211 | 838 | -0.101617216 | XYLT1 |
| 25 | 15,825,000 | 15,975,000 | 212 | 510 | 0.196851774 | XYLT1 |
| 25 | 15,900,000 | 16,050,000 | 213 | 678 | 0.92601251 | XYLT1 |
| 25 | 15,975,000 | 16,125,000 | 214 | 1036 | 0.787596333 | XYLT1 |
| 25 | 16,050,000 | 16,200,000 | 215 | 1384 | 0.717122149 | |
| 25 | 16,125,000 | 16,275,000 | 216 | 1584 | 1.324987169 | |
| 25 | 16,200,000 | 16,350,000 | 217 | 1348 | 1.34701414 | |
| 25 | 16,275,000 | 16,425,000 | 218 | 1424 | 1.112255394 | |
| 25 | 16,350,000 | 16,500,000 | 219 | 1496 | 0.545283133 | |
| 25 | 16,425,000 | 16,575,000 | 220 | 937 | 0.083722792 | ARL6IP1,RPS15A,ENSBTAG00000020735 |
| 25 | 16,500,000 | 16,650,000 | 221 | 629 | 0.758196232 | ARL6IP1,RPS15A,ENSBTAG00000020735 |
| 25 | 16,575,000 | 16,725,000 | 222 | 519 | 0.779646235 | ENSBTAG00000020735 |
| 25 | 16,650,000 | 16,800,000 | 223 | 710 | -0.781839946 | CLEC19A |
| 25 | 16,725,000 | 16,875,000 | 224 | 858 | -0.417364477 | CLEC19A,SYT17 |
| 25 | 16,800,000 | 16,950,000 | 225 | 791 | 0.773053008 | CLEC19A,SYT17 |
| 25 | 16,875,000 | 17,025,000 | 226 | 946 | 0.90690595 | COQ7,ITPRIPL2,SYT17 |
| 25 | 16,950,000 | 17,100,000 | 227 | 995 | 0.845967091 | COQ7,ITPRIPL2,TMC7 |
| 25 | 17,025,000 | 17,175,000 | 228 | 764 | 0.592892835 | COQ7,TMC5,TMC7 |
| 25 | 17,100,000 | 17,250,000 | 229 | 716 | 0.360743717 | CCP110,GDE1,TMC5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 17,175,000 | 17,325,000 | 230 | 767 | -0.428782619 | C16orf62,CCP110,GDE1,TMC5 |
| 25 | 17,250,000 | 17,400,000 | 231 | 1089 | -0.281619699 | C16orf62,CCP110 |
| 25 | 17,325,000 | 17,475,000 | 232 | 1285 | 0.008871627 | C16orf62,IQCK,KNOP1 |
| 25 | 17,400,000 | 17,550,000 | 233 | 716 | -0.392511246 | C16orf62,IQCK,KNOP1 |
| 25 | 17,475,000 | 17,625,000 | 234 | 708 | 0.874650624 | GPRC5B,IQCK |
| 25 | 17,550,000 | 17,700,000 | 235 | 904 | 0.737923654 | GPRC5B,IQCK |
| 25 | 17,625,000 | 17,775,000 | 236 | 691 | 0.270089897 | GPR139 |
| 25 | 17,700,000 | 17,850,000 | 237 | 726 | 0.163228523 | GPR139 |
| 25 | 17,775,000 | 17,925,000 | 238 | 870 | 0.511494913 | GPR139 |
| 25 | 17,850,000 | 18,000,000 | 239 | 1331 | 1.206649892 | |
| 25 | 17,925,000 | 18,075,000 | 240 | 1226 | 0.952049195 | |
| 25 | 18,000,000 | 18,150,000 | 241 | 836 | 0.386011527 | GP2,PDILT,UMOD |
| 25 | 18,075,000 | 18,225,000 | 242 | 922 | 1.25537425 | ACSM5,GP2,PDILT,UMOD |
| 25 | 18,150,000 | 18,300,000 | 243 | 736 | 1.21036614 | ACSM2A,ACSM5,PDILT |
| 25 | 18,225,000 | 18,375,000 | 244 | 530 | 0.596862057 | ACSM1,ACSM2A,ACSM5 |
| 25 | 18,300,000 | 18,450,000 | 245 | 749 | 0.139031448 | ACSM1,ACSM2A |
| 25 | 18,375,000 | 18,525,000 | 246 | 1196 | 0.214557266 | ACSM1 |
| 25 | 18,450,000 | 18,600,000 | 247 | 1327 | 0.258873133 | ACSM4,THUMPD1 |
| 25 | 18,525,000 | 18,675,000 | 248 | 1027 | -0.069375051 | ACSM3,ACSM4,ERI2,THUMPD1,ENSBTAG00000006449 |
| 25 | 18,600,000 | 18,750,000 | 249 | 612 | -0.336711897 | ACSM3,DCUN1D3,ERI2,ENSBTAG00000006449 |
| 25 | 18,675,000 | 18,825,000 | 250 | 488 | 0.087508035 | DCUN1D3,LYRM1,ENSBTAG00000006449 |
| 25 | 18,750,000 | 18,900,000 | 251 | 846 | 0.246911489 | DCUN1D3,DNAH3,LYRM1 |
| 25 | 18,825,000 | 18,975,000 | 252 | 1035 | 0.459985417 | DNAH3,LYRM1 |
| 25 | 18,900,000 | 19,050,000 | 253 | 890 | 0.893397612 | DNAH3 |
| 25 | 18,975,000 | 19,125,000 | 254 | 1451 | 0.694615568 | DNAH3 |
| 25 | 19,050,000 | 19,200,000 | 255 | 1531 | 0.535169183 | DNAH3,TMEM159 |
| 25 | 19,125,000 | 19,275,000 | 256 | 792 | 0.477879396 | ANKS4B,DNAH3,TMEM159,ZP2 |
| 25 | 19,200,000 | 19,350,000 | 257 | 919 | 0.857098989 | ANKS4B,CRYM,TMEM159,ZP2,ENSBTAG00000006717 |
| 25 | 19,275,000 | 19,425,000 | 258 | 1351 | 1.010329712 | ANKS4B,CRYM,ENSBTAG00000006717 |
| 25 | 19,350,000 | 19,500,000 | 259 | 1660 | 0.949754612 | ENSBTAG00000006717 |
| 25 | 19,425,000 | 19,575,000 | 260 | 1729 | 1.027470885 | ENSBTAG00000006717 |
| 25 | 19,500,000 | 19,650,000 | 261 | 1944 | 1.052394852 | ENSBTAG00000006717,ENSBTAG000000035915 |
| 25 | 19,575,000 | 19,725,000 | 262 | 1610 | 0.970502385 | ENSBTAG00000006717,ENSBTAG000000035915 |
| 25 | 19,650,000 | 19,800,000 | 263 | 1305 | 0.95467775 | ENSBTAG000000035915 |
| 25 | 19,725,000 | 19,875,000 | 264 | 1156 | 0.99150665 | UQCRC2,ENSBTAG000000035915 |
| 25 | 19,800,000 | 19,950,000 | 265 | 689 | 0.776428044 | PDZD9,UQCRC2,ENSBTAG000000035915 |
| 25 | 19,875,000 | 20,025,000 | 266 | 898 | 0.752369214 | C16orf52,PDZD9,UQCRC2,VWA3A |
| 25 | 19,950,000 | 20,100,000 | 267 | 686 | 0.231057095 | C16orf52,SDR42E2,VWA3A |
| 25 | 20,025,000 | 20,175,000 | 268 | 458 | 0.434117237 | EEF2K,SDR42E2,VWA3A |
| 25 | 20,100,000 | 20,250,000 | 269 | 630 | 0.661652672 | CDR2,EEF2K,POLR3E,ENSBTAG000000032373 |
| 25 | 20,175,000 | 20,325,000 | 270 | 541 | -0.036053317 | CDR2,METTL9,POLR3E,ENSBTAG000000032373 |
| 25 | 20,250,000 | 20,400,000 | 271 | 466 | -0.592928567 | IGSF6,METTL9,OTOA,ENSBTAG000000032373 |
| 25 | 20,325,000 | 20,475,000 | 272 | 566 | -0.350847206 | IGSF6,METTL9,OTOA |
| 25 | 20,400,000 | 20,550,000 | 273 | 885 | -1.623213794 | OTOA |
| 25 | 20,475,000 | 20,625,000 | 274 | 1085 | -1.288679185 | ENSBTAG000000018195 |
| 25 | 20,550,000 | 20,700,000 | 275 | 921 | 0.506543109 | HS3ST2,ENSBTAG000000018195 |
| 25 | 20,625,000 | 20,775,000 | 276 | 852 | 0.946803893 | HS3ST2 |
| 25 | 20,700,000 | 20,850,000 | 277 | 800 | 0.903962963 | HS3ST2 |
| 25 | 20,775,000 | 20,925,000 | 278 | 1124 | 1.120723432 | HS3ST2 |
| 25 | 20,850,000 | 21,000,000 | 279 | 1244 | 0.761297553 | USP31 |
| 25 | 20,925,000 | 21,075,000 | 280 | 775 | 0.319449948 | USP31 |
| 25 | 21,000,000 | 21,150,000 | 281 | 595 | 0.366991736 | SCNN1G,USP31 |
| 25 | 21,075,000 | 21,225,000 | 282 | 582 | 0.306849991 | SCNN1G |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 21,150,000 | 21,300,000 | 283 | 506 | 0.644875377 | COG7,SCNN1B |
| 25 | 21,225,000 | 21,375,000 | 284 | 822 | 0.557027355 | COG7,SCNN1B |
| 25 | 21,300,000 | 21,450,000 | 285 | 1211 | -0.203287087 | COG7,EARS2,GGA2 |
| 25 | 21,375,000 | 21,525,000 | 286 | 823 | -0.554168419 | COG7,EARS2,GGA2,NDUFAB1,PALB2,UBFD1 |
| 25 | 21,450,000 | 21,600,000 | 287 | 608 | -0.601265899 | EARS2,ERN2,MGC3248,NDUFAB1,PALB2,PLK1,UBFD1 |
| 25 | 21,525,000 | 21,675,000 | 288 | 864 | -0.4155426 | CHP2,ERN2,MGC3248,PALB2,PLK1 |
| 25 | 21,600,000 | 21,750,000 | 289 | 969 | -0.227586586 | CHP2,ERN2 |
| 25 | 21,675,000 | 21,825,000 | 290 | 798 | 0.089006989 | PRKCB |
| 25 | 21,750,000 | 21,900,000 | 291 | 508 | 0.512046065 | PRKCB |
| 25 | 21,825,000 | 21,975,000 | 292 | 522 | 0.198142298 | PRKCB |
| 25 | 21,900,000 | 22,050,000 | 293 | 746 | 0.075930552 | PRKCB |
| 25 | 21,975,000 | 22,125,000 | 294 | 896 | -0.018695652 | PRKCB |
| 25 | 22,050,000 | 22,200,000 | 295 | 738 | 0.189691516 | CACNG3,PRKCB |
| 25 | 22,125,000 | 22,275,000 | 296 | 793 | 0.896027429 | CACNG3,PRKCB |
| 25 | 22,200,000 | 22,350,000 | 297 | 1001 | 0.994358436 | CACNG3 |
| 25 | 22,275,000 | 22,425,000 | 298 | 884 | 0.410854011 | CACNG3 |
| 25 | 22,350,000 | 22,500,000 | 299 | 671 | 0.006204448 | RBBP6 |
| 25 | 22,425,000 | 22,575,000 | 300 | 551 | 0.379016717 | RBBP6 |
| 25 | 22,500,000 | 22,650,000 | 301 | 778 | 0.671317144 | |
| 25 | 22,575,000 | 22,725,000 | 302 | 654 | 0.712471622 | TNRC6A |
| 25 | 22,650,000 | 22,800,000 | 303 | 331 | 0.620381446 | SLC5A11,TNRC6A |
| 25 | 22,725,000 | 22,875,000 | 304 | 634 | 0.447954599 | ARHGAP17,SLC5A11,TNRC6A |
| 25 | 22,800,000 | 22,950,000 | 305 | 781 | 0.27318685 | ARHGAP17,SLC5A11,ENSBTAG00000046132 |
| 25 | 22,875,000 | 23,025,000 | 306 | 584 | -0.30327208 | ARHGAP17,LCMT1,ENSBTAG00000046132 |
| 25 | 22,950,000 | 23,100,000 | 307 | 1045 | -1.674718282 | AQP8,LCMT1,ZKSCAN2,ENSBTAG00000046132 |
| 25 | 23,025,000 | 23,175,000 | 308 | 1065 | -1.405952436 | AQP8,LCMT1,ZKSCAN2 |
| 25 | 23,100,000 | 23,250,000 | 309 | 748 | -0.017586103 | ZKSCAN2 |
| 25 | 23,175,000 | 23,325,000 | 310 | 930 | 0.021359948 | |
| 25 | 23,250,000 | 23,400,000 | 311 | 663 | 0.02999008 | |
| 25 | 23,325,000 | 23,475,000 | 312 | 561 | 0.340920918 | |
| 25 | 23,400,000 | 23,550,000 | 313 | 551 | 0.267827299 | |
| 25 | 23,475,000 | 23,625,000 | 314 | 704 | -0.105734542 | |
| 25 | 23,550,000 | 23,700,000 | 315 | 1205 | 0.297406504 | |
| 25 | 23,625,000 | 23,775,000 | 316 | 1399 | 0.654553632 | |
| 25 | 23,700,000 | 23,850,000 | 317 | 1333 | 0.893872505 | |
| 25 | 23,775,000 | 23,925,000 | 318 | 1000 | 0.739573965 | |
| 25 | 23,850,000 | 24,000,000 | 319 | 854 | 0.323341442 | |
| 25 | 23,925,000 | 24,075,000 | 320 | 816 | -0.163463529 | |
| 25 | 24,000,000 | 24,150,000 | 321 | 838 | -0.95829793 | |
| 25 | 24,075,000 | 24,225,000 | 322 | 921 | -0.002912012 | |
| 25 | 24,150,000 | 24,300,000 | 323 | 1003 | 0.852671419 | |
| 25 | 24,225,000 | 24,375,000 | 324 | 759 | 0.76698918 | |
| 25 | 24,300,000 | 24,450,000 | 325 | 741 | -1.479688237 | |
| 25 | 24,375,000 | 24,525,000 | 326 | 1299 | -0.397004389 | |
| 25 | 24,450,000 | 24,600,000 | 327 | 1303 | 1.193861657 | |
| 25 | 24,525,000 | 24,675,000 | 328 | 898 | 0.932254293 | |
| 25 | 24,600,000 | 24,750,000 | 329 | 1167 | 0.624107851 | |
| 25 | 24,675,000 | 24,825,000 | 330 | 1374 | 0.71289697 | |
| 25 | 24,750,000 | 24,900,000 | 331 | 976 | 0.195677764 | |
| 25 | 24,825,000 | 24,975,000 | 332 | 1314 | 0.066416878 | C25H16orf82 |
| 25 | 24,900,000 | 25,050,000 | 333 | 1233 | 0.045126038 | C25H16orf82 |
| 25 | 24,975,000 | 25,125,000 | 334 | 674 | 0.047150543 | KDM8,NSMCE1 |
| 25 | 25,050,000 | 25,200,000 | 335 | 647 | -0.214058787 | IL4R,KDM8,NSMCE1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 25,125,000 | 25,275,000 | 336 | 654 | -0.598993633 | IL21R,IL4R |
| 25 | 25,200,000 | 25,350,000 | 337 | 623 | -0.00344212 | GTF3C1,IL21R |
| 25 | 25,275,000 | 25,425,000 | 338 | 716 | 0.723158913 | GTF3C1,KIAA0556 |
| 25 | 25,350,000 | 25,500,000 | 339 | 989 | 0.410313463 | GTF3C1,KIAA0556 |
| 25 | 25,425,000 | 25,575,000 | 340 | 1315 | -0.697184009 | KIAA0556 |
| 25 | 25,500,000 | 25,650,000 | 341 | 1263 | -0.053171152 | GSG1L,KIAA0556 |
| 25 | 25,575,000 | 25,725,000 | 342 | 1133 | 1.09839348 | GSG1L,KIAA0556 |
| 25 | 25,650,000 | 25,800,000 | 343 | 904 | 0.945917479 | GSG1L |
| 25 | 25,725,000 | 25,875,000 | 344 | 578 | -0.981498298 | GSG1L |
| 25 | 25,800,000 | 25,950,000 | 345 | 442 | -1.792278331 | GSG1L,XPO6 |
| 25 | 25,875,000 | 26,025,000 | 346 | 437 | 0.522340635 | XPO6 |
| 25 | 25,950,000 | 26,100,000 | 347 | 402 | 1.0247185 | SBK1,XPO6 |
| 25 | 26,025,000 | 26,175,000 | 348 | 323 | 0.779209539 | CD19,LAT,NFATC2IP,SBK1,SPNS1 |
| 25 | 26,100,000 | 26,250,000 | 349 | 414 | 0.214913059 | ATP2A1,ATXN2L,CD19,LAT,NFATC2IP,RABEP2,SH2B1,SPNS1,TUFM |
| 25 | 26,175,000 | 26,325,000 | 350 | 446 | -0.21746922 | APOBR,ATP2A1,ATXN2L,EIF3C,IL27,RABEP2,SH2B1,TUFM,ENSBTAG00000018000 |
| 25 | 26,250,000 | 26,400,000 | 351 | 503 | -0.22332194 | APOBR,CORO1A,EIF3C,IL27,NUPR1,SLX1A,SULT1A1,ENSBTAG00000008632,ENSBTAG00000016883,ENSBTAG00000018000,ENSBTAG00000048253 |
| 25 | 26,325,000 | 26,475,000 | 352 | 459 | 0.142462493 | ALDOA,CORO1A,GDPD3,MAPK3,NUPR1,PPP4C,SLX1A,SULT1A1,IBX6,YPEL3,ENSBTAG00000008632,ENSBTAG00000016883,ENSBTAG00000048253 |
| 25 | 26,400,000 | 26,550,000 | 353 | 267 | 0.671916772 | ALDOA,DOC2A,FAM57B,GDPD3,HIRIP3,INO80E,MAPK3,PPP4C,TAOK2,IBX6,TMEM219,YPEL3 |
| 25 | 26,475,000 | 26,625,000 | 354 | 158 | -0.781765259 | ALDOA,ASPHD1,DOC2A,FAM57B,HIRIP3,INO80E,KCTD13,SEZ6L2,TAOK2,TMEM219 |
| 25 | 26,550,000 | 26,700,000 | 355 | 326 | -1.607855666 | ASPHD1,CDIPT,KCTD13,KIF22,MVP,PAGR1,PRRT2,SEZ6L2,TMEM219 |
| 25 | 26,625,000 | 26,775,000 | 356 | 590 | -1.140732478 | C16orf54,CDIPT,KIF22,MVP,PAGR1,PRRT2,QPRT,SEZ6L2,SPN,ZG16 |
| 25 | 26,700,000 | 26,850,000 | 357 | 459 | -0.638503275 | C16orf54,CD2BP2,KIF22,MYLPF,QPRT,SEPT1,SPN,TBC1D10B,ZG16,ZNF48,ZNF771,ENSBTAG00000046855 |
| 25 | 26,775,000 | 26,925,000 | 358 | 483 | 0.275070543 | CD2BP2,DCTPP1,ITGAL,MYLPF,SEPHS2,SEPT1,TBC1D10B,ZNF48,ZNF771,ENSBTAG00000046855 |
| 25 | 26,850,000 | 27,000,000 | 359 | 744 | 0.667272221 | DCTPP1,ITGAL,SEPHS2,ZNF688,ENSBTAG00000043974 |
| 25 | 26,925,000 | 27,075,000 | 360 | 619 | 1.104117748 | FBRS,ITGAL,PRR14,ZNF688,ZNF689,ENSBTAG00000043974 |
| 25 | 27,000,000 | 27,150,000 | 361 | 427 | 0.310792226 | C16orf93,FBRS,PHKG2,PRR14,RNF40,SrcAP,ZNF689 |
| 25 | 27,075,000 | 27,225,000 | 362 | 527 | -0.820719287 | BCL7C,C16orf93,CTF1,PHKG2,RNF40,SrcAP,ZNF629 |
| 25 | 27,150,000 | 27,300,000 | 363 | 769 | 0.227510748 | BCL7C,CTF1,RNF40,ZNF629,ENSBTAG00000035373 |
| 25 | 27,225,000 | 27,375,000 | 364 | 702 | 0.448383654 | CTF1,FBXL19,ORAI3,SETD1A,ENSBTAG00000035373 |
| 25 | 27,300,000 | 27,450,000 | 365 | 506 | 0.019632545 | FBXL19,HSD3B7,ORAI3,SETD1A,STX1B,STX4,ZNF646,ZNF668 |
| 25 | 27,375,000 | 27,525,000 | 366 | 492 | -0.288413713 | BCKDK,FUS,HSD3B7,KAT8,PRSS36,PRSS53,PRSS8,STX1B,STX4,VKORC1,ZNF646,ZNF668 |
| 25 | 27,450,000 | 27,600,000 | 367 | 643 | -1.36775818 | BCKDK,FUS,KAT8,PRSS36,PRSS53,PRSS8,TRIM72,VKORC1,ENSBTAG00000020535 |
| 25 | 27,525,000 | 27,675,000 | 368 | 682 | -1.097400854 | FUS,ITGAM,TRIM72,ENSBTAG00000020535 |
| 25 | 27,600,000 | 27,750,000 | 369 | 872 | -1.081121173 | COX6A2,ITGAD,ITGAM |
| 25 | 27,675,000 | 27,825,000 | 370 | 823 | -1.051634612 | AHSP,ARMC5,C16orf58,COX6A2,ITGAD,SLC5A2,TGFB111,ENSBTAG00000040319 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 27,750,000 | 27,900,000 | 371 | 646 | -2.333406112 | AHSP,ARMC5,C16orf58,SEPT14,SLC5A2,TGFB1I1,ZNF713,ENSBTAG00000037462,ENSBTAG00000040319 |
| 25 | 27,825,000 | 27,975,000 | 372 | 680 | -2.795616286 | GBAS,MRPS17,PSPH,SEPT14,ZNF713,ENSBTAG00000037462 |
| 25 | 27,900,000 | 28,050,000 | 373 | 689 | -1.531365779 | CCT6A,CHCHD9,GBAS,MRPS17,NUPR1L,PHKG1,PSPH,SUMF2,ENSBTAG00000031582 |
| 25 | 27,975,000 | 28,125,000 | 374 | 742 | -1.0352093 | CCT6A,CHCHD9,NUPR1L,PHKG1,PSPH,SUMF2,ENSBTAG0000014448,ENSBTAG00000031582 |
| 25 | 28,050,000 | 28,200,000 | 375 | 555 | -0.30972722 | GUSB,ENSBTAG00000014448 |
| 25 | 28,125,000 | 28,275,000 | 376 | 462 | 0.16493872 | CRCP,GUSB,ENSBTAG00000014448,ENSBTAG00000015314 |
| 25 | 28,200,000 | 28,350,000 | 377 | 563 | 0.707771378 | CRCP,TPST1,ENSBTAG00000015314 |
| 25 | 28,275,000 | 28,425,000 | 378 | 450 | 0.40169284 | CRCP,TPST1 |
| 25 | 28,350,000 | 28,500,000 | 379 | 295 | -1.006790137 | KCTD7,TPST1 |
| 25 | 28,425,000 | 28,575,000 | 380 | 220 | -0.939869338 | KCTD7,RABGEF1,TMEM248,TPST1 |
| 25 | 28,500,000 | 28,650,000 | 381 | 469 | -1.730786932 | RABGEF1,SBDS,TMEM248,TYW1 |
| 25 | 28,575,000 | 28,725,000 | 382 | 621 | -2.130249359 | SBDS,TMEM248,TYW1 |
| 25 | 28,650,000 | 28,800,000 | 383 | 526 | -2.085974313 | TYW1 |
| 25 | 28,725,000 | 28,875,000 | 384 | 429 | -1.615943301 | TYW1 |
| 25 | 28,800,000 | 28,950,000 | 385 | 205 | -0.818564397 | CALN1 |
| 25 | 28,875,000 | 29,025,000 | 386 | 376 | 0.245634572 | CALN1 |
| 25 | 28,950,000 | 29,100,000 | 387 | 506 | 0.221382571 | CALN1 |
| 25 | 29,025,000 | 29,175,000 | 388 | 523 | -0.255635271 | CALN1 |
| 25 | 29,100,000 | 29,250,000 | 389 | 449 | -0.135166113 | CALN1 |
| 25 | 29,175,000 | 29,325,000 | 390 | 340 | 0.769899556 | CALN1 |
| 25 | 29,250,000 | 29,400,000 | 391 | 390 | 0.728012754 | CALN1,WBSCR17 |
| 25 | 29,325,000 | 29,475,000 | 392 | 522 | 0.10369901 | CALN1,WBSCR17 |
| 25 | 29,400,000 | 29,550,000 | 393 | 671 | 0.183186131 | WBSCR17 |
| 25 | 29,475,000 | 29,625,000 | 394 | 670 | 0.783762322 | WBSCR17 |
| 25 | 29,550,000 | 29,700,000 | 395 | 747 | 0.60918276 | WBSCR17 |
| 25 | 29,625,000 | 29,775,000 | 396 | 942 | 0.057953264 | WBSCR17 |
| 25 | 29,700,000 | 29,850,000 | 397 | 969 | -0.630039307 | WBSCR17 |
| 25 | 29,775,000 | 29,925,000 | 398 | 811 | -1.209918317 | WBSCR17 |
| 25 | 29,850,000 | 30,000,000 | 399 | 759 | -0.213770974 | |
| 25 | 29,925,000 | 30,075,000 | 400 | 897 | -0.15518726 | AUTS2 |
| 25 | 30,000,000 | 30,150,000 | 401 | 1013 | -0.93268147 | AUTS2 |
| 25 | 30,075,000 | 30,225,000 | 402 | 942 | -0.309319525 | AUTS2 |
| 25 | 30,150,000 | 30,300,000 | 403 | 613 | 0.610242347 | |
| 25 | 30,225,000 | 30,375,000 | 404 | 183 | 0.555694924 | |
| 25 | 30,300,000 | 30,450,000 | 405 | 339 | 0.108463791 | |
| 25 | 30,375,000 | 30,525,000 | 406 | 724 | -0.508926716 | |
| 25 | 30,450,000 | 30,600,000 | 407 | 765 | -0.335267421 | |
| 25 | 30,525,000 | 30,675,000 | 408 | 572 | 0.195489716 | |
| 25 | 30,600,000 | 30,750,000 | 409 | 373 | -0.188318404 | |
| 25 | 30,675,000 | 30,825,000 | 410 | 315 | -0.225070293 | |
| 25 | 30,750,000 | 30,900,000 | 411 | 266 | -0.0137455 | |
| 25 | 30,825,000 | 30,975,000 | 412 | 275 | -0.577807529 | |
| 25 | 30,900,000 | 31,050,000 | 413 | 260 | -1.005887737 | |
| 25 | 30,975,000 | 31,125,000 | 414 | 287 | -1.350003057 | ENSBTAG00000047342 |
| 25 | 31,050,000 | 31,200,000 | 415 | 297 | -1.187883346 | ENSBTAG00000047342 |
| 25 | 31,125,000 | 31,275,000 | 416 | 380 | -0.299385228 | |
| 25 | 31,200,000 | 31,350,000 | 417 | 460 | -0.347722817 | |
| 25 | 31,275,000 | 31,425,000 | 418 | 483 | -1.35265404 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 31,350,000 | 31,500,000 | 419 | 498 | -1.618044569 | |
| 25 | 31,425,000 | 31,575,000 | 420 | 377 | -1.067062379 | |
| 25 | 31,500,000 | 31,650,000 | 421 | 498 | -1.452596891 | |
| 25 | 31,575,000 | 31,725,000 | 422 | 623 | -0.974873878 | |
| 25 | 31,650,000 | 31,800,000 | 423 | 519 | -0.593623738 | |
| 25 | 31,725,000 | 31,875,000 | 424 | 481 | -1.009540939 | |
| 25 | 31,800,000 | 31,950,000 | 425 | 782 | 0.245283495 | |
| 25 | 31,875,000 | 32,025,000 | 426 | 1101 | 0.673716495 | |
| 25 | 31,950,000 | 32,100,000 | 427 | 1301 | 0.543978445 | |
| 25 | 32,025,000 | 32,175,000 | 428 | 1195 | 0.284879039 | |
| 25 | 32,100,000 | 32,250,000 | 429 | 1270 | 0.000475404 | |
| 25 | 32,175,000 | 32,325,000 | 430 | 1727 | 0.32954053 | |
| 25 | 32,250,000 | 32,400,000 | 431 | 1642 | 0.352509658 | ENSBTAG00000047264 |
| 25 | 32,325,000 | 32,475,000 | 432 | 746 | -0.007057269 | ENSBTAG00000047264 |
| 25 | 32,400,000 | 32,550,000 | 433 | 768 | -0.440128138 | |
| 25 | 32,475,000 | 32,625,000 | 434 | 1490 | -0.455442633 | |
| 25 | 32,550,000 | 32,700,000 | 435 | 1123 | -0.014103176 | |
| 25 | 32,625,000 | 32,775,000 | 436 | 885 | 0.301524736 | |
| 25 | 32,700,000 | 32,850,000 | 437 | 769 | -0.419128771 | |
| 25 | 32,775,000 | 32,925,000 | 438 | 787 | -0.333765944 | |
| 25 | 32,850,000 | 33,000,000 | 439 | 1071 | 0.022147181 | |
| 25 | 32,925,000 | 33,075,000 | 440 | 1210 | 0.233351406 | |
| 25 | 33,000,000 | 33,150,000 | 441 | 813 | -0.090517998 | |
| 25 | 33,075,000 | 33,225,000 | 442 | 523 | -3.019038118 | WBSCR16,ENSBTAG00000014417,ENSBTAG00000026286 |
| 25 | 33,150,000 | 33,300,000 | 443 | 910 | -2.937925939 | GTF2I,NCF1,WBSCR16,ENSBTAG00000014417,ENSBTAG00000026286 |
| 25 | 33,225,000 | 33,375,000 | 444 | 861 | -0.950772547 | GTF2I,NCF1,ENSBTAG00000026286 |
| 25 | 33,300,000 | 33,450,000 | 445 | 874 | 0.545741824 | GTF2I,GTF2IRD1 |
| 25 | 33,375,000 | 33,525,000 | 446 | 1190 | 0.222625658 | GTF2IRD1 |
| 25 | 33,450,000 | 33,600,000 | 447 | 877 | 0.1091376 | CLIP2,GTF2IRD1 |
| 25 | 33,525,000 | 33,675,000 | 448 | 674 | 0.180839241 | CLIP2,RFC2 |
| 25 | 33,600,000 | 33,750,000 | 449 | 693 | 0.095415541 | CLIP2,LAT2,RFC2,WBSCR1 |
| 25 | 33,675,000 | 33,825,000 | 450 | 620 | 0.056762203 | ELN,LAT2,LIMK1,RFC2,WBSCR1 |
| 25 | 33,750,000 | 33,900,000 | 451 | 797 | 0.550293519 | ELN,LIMK1 |
| 25 | 33,825,000 | 33,975,000 | 452 | 668 | 0.7146048 | WBSCR28 |
| 25 | 33,900,000 | 34,050,000 | 453 | 584 | -0.283134259 | ABHD11,CLDN3,CLDN4,WBSCR27,WBSCR28 |
| 25 | 33,975,000 | 34,125,000 | 454 | 508 | -0.740346026 | ABHD11,CLDN3,CLDN4,DNAJC30,STX1A,VPS37D,WBSCR27,WBSCR27 |
| 25 | 34,050,000 | 34,200,000 | 455 | 349 | 0.280235165 | BAZ1B,BCL7B,DNAJC30,MLXIPL,STX1A,TBL2,VPS37D,WBSCR22 |
| 25 | 34,125,000 | 34,275,000 | 456 | 320 | -0.016653746 | BAZ1B,BCL7B,FZD9,MLXIPL,TBL2 |
| 25 | 34,200,000 | 34,350,000 | 457 | 298 | -0.24704945 | BAZ1B,FKBP6,FZD9,NSUN5,TRIM50,ENSBTAG00000017939 |
| 25 | 34,275,000 | 34,425,000 | 458 | 379 | 0.381831033 | FKBP6,HIP1,NSUN5,TRIM50,ENSBTAG00000017939 |
| 25 | 34,350,000 | 34,500,000 | 459 | 511 | 0.371466946 | HIP1,ENSBTAG00000017939 |
| 25 | 34,425,000 | 34,575,000 | 460 | 570 | -0.193817982 | HIP1 |
| 25 | 34,500,000 | 34,650,000 | 461 | 522 | -0.466444785 | CCL24,HIP1,RHBDD2 |
| 25 | 34,575,000 | 34,725,000 | 462 | 579 | 0.165700511 | CCL24,POR,RHBDD2 |
| 25 | 34,650,000 | 34,800,000 | 463 | 641 | -0.385142117 | MDH2,POR,SRRM3,STYXL1,TMEM120A |
| 25 | 34,725,000 | 34,875,000 | 464 | 633 | -0.615451686 | HSPB1,MDH2,POR,SRRM3,STYXL1,TMEM120A |
| 25 | 34,800,000 | 34,950,000 | 465 | 705 | 0.388761914 | HSPB1,SRRM3,SSC4D,YWHAG |
| 25 | 34,875,000 | 35,025,000 | 466 | 767 | 0.554528858 | DTX2,SSC4D,UPK3B,YWHAG,ZP3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 34,950,000 | 35,100,000 | 467 | 855 | -0.10495803 | DKFZP434K1815,DTX2,POLR2J,UPK3B,ZP3,ENSBTAG00000005448,ENSBTAG00000020524 |
| 25 | 35,025,000 | 35,175,000 | 468 | 645 | -1.936131478 | ALKBH4,DKFZP434K1815,ORAI2,POLR2J,PRKRIP1,ENSBTAG0000005448,ENSBTAG00000020524 |
| 25 | 35,100,000 | 35,250,000 | 469 | 542 | -3.35471088 | ALKBH4,CUX1,DKFZP434K1815,ORAI2,PRKRIP1,SH2B2,ENSBTAG00000047266 |
| 25 | 35,175,000 | 35,325,000 | 470 | 801 | -1.393908587 | CUX1,SH2B2,ENSBTAG00000047266 |
| 25 | 35,250,000 | 35,400,000 | 471 | 715 | -1.181332082 | CUX1 |
| 25 | 35,325,000 | 35,475,000 | 472 | 453 | -2.161391553 | CUX1 |
| 25 | 35,400,000 | 35,550,000 | 473 | 284 | -1.659494846 | CUX1 |
| 25 | 35,475,000 | 35,625,000 | 474 | 205 | -0.478582447 | CUX1 |
| 25 | 35,550,000 | 35,700,000 | 475 | 547 | -1.376251558 | |
| 25 | 35,625,000 | 35,775,000 | 476 | 877 | -1.538594117 | MYL10 |
| 25 | 35,700,000 | 35,850,000 | 477 | 1063 | -1.475613539 | COL26A1,MYL10 |
| 25 | 35,775,000 | 35,925,000 | 478 | 1137 | -0.492464489 | COL26A1 |
| 25 | 35,850,000 | 36,000,000 | 479 | 903 | 0.153244961 | COL26A1,IFT22,ENSBTAG00000047808 |
| 25 | 35,925,000 | 36,075,000 | 480 | 1016 | 0.227338859 | CLDN15,COL26A1,FIS1,IFT22,PLOD3,ZNHIT1,ENSBTAG00000047808 |
| 25 | 36,000,000 | 36,150,000 | 481 | 1223 | 0.173251536 | CLDN15,FIS1,MUC3A,PLOD3,ZNHIT1,ENSBTAG00000020157 |
| 25 | 36,075,000 | 36,225,000 | 482 | 1039 | 0.310673404 | AP1S1,MUC3A,SERPINE1,VGF,ENSBTAG00000020157 |
| 25 | 36,150,000 | 36,300,000 | 483 | 912 | 0.352610746 | AP1S1,MUC12,SERPINE1,TRIM56,VGF,ENSBTAG00000047125 |
| 25 | 36,225,000 | 36,375,000 | 484 | 945 | 0.047878633 | ACHE,EPHB4,MUC12,SLC12A9,SRRT,TRIM56,TRIP6,UFSP1,ZAN,ENSBTAG00000047125 |
| 25 | 36,300,000 | 36,450,000 | 485 | 901 | 0.182598171 | ACHE,EPHB4,EPO,GIGYF1,GNB2,POP7,SLC12A9,SRRT,TRIP6,UFSP1,ZAN |
| 25 | 36,375,000 | 36,525,000 | 486 | 843 | 0.295828176 | ACTL6B,EPO,FBXO24,GIGYF1,GNB2,LRCH4,MOSPD3,PCOLCE,POP7,SAP25,TFR2,ZAN,ENSBTAG00000046753 |
| 25 | 36,450,000 | 36,600,000 | 487 | 736 | 0.167649417 | ACTL6B,AGFG2,FBXO24,GNB2,LRCH4,MOSPD3,PCOLCE,SAP25,TFR2,ENSBTAG00000046753 |
| 25 | 36,525,000 | 36,675,000 | 488 | 609 | 0.370607799 | AGFG2,BCDIN3,C7orf61,NYAP1,PILRA,PPP1R35,TSC22D4,ZCWPW1,ENSBTAG00000015272 |
| 25 | 36,600,000 | 36,750,000 | 489 | 1151 | 0.738074557 | BCDIN3,C7orf61,NYAP1,PILRA,PPP1R35,PVRIG,STAG3,TSC22D4,ZCWPW1,ENSBTAG00000015272 |
| 25 | 36,675,000 | 36,825,000 | 490 | 1240 | 0.68522355 | C7orf43,GAL3ST4,GPC2,LAMTOR4,PILRA,PVRIG,STAG3,ENSBTAG00000011470 |
| 25 | 36,750,000 | 36,900,000 | 491 | 841 | 0.691409436 | AP4M1,C7orf43,CNPY4,COPS6,GAL3ST4,GPC2,LAMTOR4,MBLAC1,MCM7,STAG3,TAF6,ENSBTAG00000011470,ENSBTAG00000012668 |
| 25 | 36,825,000 | 36,975,000 | 492 | 987 | -0.51193214 | AP4M1,CNPY4,COPS6,MBLAC1,MCM7,TAF6,ZKSCAN1,ZNF3,ZSCAN21,ENSBTAG00000012668 |
| 25 | 36,900,000 | 37,050,000 | 493 | 1014 | -1.101901524 | AZGP1,CYP3A5,GJC3,ZKSCAN1,ZNF3,ZSCAN21 |
| 25 | 36,975,000 | 37,125,000 | 494 | 1228 | -0.319695981 | AZGP1,CYP3A5,GJC3,OR2AE1 |
| 25 | 37,050,000 | 37,200,000 | 495 | 1169 | -0.51901795 | CYP3A5,OR2AE1,ENSBTAG00000047379 |
| 25 | 37,125,000 | 37,275,000 | 496 | 587 | -0.995807747 | CYP3A5,ENSBTAG00000047379 |
| 25 | 37,200,000 | 37,350,000 | 497 | 458 | 0.477348086 | CYP3A5,ZSCAN25,ENSBTAG00000019435 |
| 25 | 37,275,000 | 37,425,000 | 498 | 465 | 0.413701069 | ZNF655,ZNF789,ZSCAN25,ENSBTAG00000019435,ENSBTAG00000039720 |
| 25 | 37,350,000 | 37,500,000 | 499 | 306 | 0.558297081 | ATP5J2,ZNF394,ZNF655,ZNF789,ENSBTAG00000039720,ENSBTAG00000040568 |
| 25 | 37,425,000 | 37,575,000 | 500 | 482 | -0.25033168 | ARPC1A,ARPC1B,ATP5J2,BUD31,CPSF4,PDAP1,ZNF394,ENSBTAG00000020440,ENSBTAG00000040568 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 37,500,000 | 37,650,000 | 501 | 720 | -0.904958676 | ARPC1A,ARPC1B,BUD31,CPSF4,PDAP1,ENSBTAG00000020440 |
| 25 | 37,575,000 | 37,725,000 | 502 | 876 | -0.680642928 | ARPC1A,KPNA7 |
| 25 | 37,650,000 | 37,800,000 | 503 | 868 | -0.167396533 | KPNA7,SMURF1 |
| 25 | 37,725,000 | 37,875,000 | 504 | 770 | -0.112750441 | SMURF1,TRRAP |
| 25 | 37,800,000 | 37,950,000 | 505 | 873 | -0.970887478 | SMURF1,TMEM130,TRRAP |
| 25 | 37,875,000 | 38,025,000 | 506 | 926 | -0.360280397 | TMEM130,TRRAP |
| 25 | 37,950,000 | 38,100,000 | 507 | 1260 | 0.969981145 | NPTX2 |
| 25 | 38,025,000 | 38,175,000 | 508 | 1433 | 0.422609455 | NPTX2 |
| 25 | 38,100,000 | 38,250,000 | 509 | 1085 | -0.317660267 | BAIAP2L1 |
| 25 | 38,175,000 | 38,325,000 | 510 | 913 | -0.434161907 | BAIAP2L1,BRI3 |
| 25 | 38,250,000 | 38,400,000 | 511 | 593 | -1.793361077 | BAIAP2L1,BHLHA15,BRI3,LMTK2 |
| 25 | 38,325,000 | 38,475,000 | 512 | 407 | 0.518397564 | BHLHA15,LMTK2 |
| 25 | 38,400,000 | 38,550,000 | 513 | 564 | 0.450646995 | CCZ1,ENSBTAG00000005908,ENSBTAG00000046943 |
| 25 | 38,475,000 | 38,625,000 | 514 | 568 | 0.237924603 | AIMP2,ANKRD61,CCZ1,EIF2AK1,PMS2,ENSBTAG00000005908,ENSBTAG00000046943 |
| 25 | 38,550,000 | 38,700,000 | 515 | 572 | -0.328601904 | AIMP2,ANKRD61,CYTH3,EIF2AK1,PMS2,USP42,ENSBTAG0000005908 |
| 25 | 38,625,000 | 38,775,000 | 516 | 745 | -1.174171783 | CYTH3,USP42,ENSBTAG00000046517 |
| 25 | 38,700,000 | 38,850,000 | 517 | 978 | -0.390301899 | DAGLB,RAC1,ENSBTAG00000046517 |
| 25 | 38,775,000 | 38,925,000 | 518 | 815 | 0.443382602 | DAGLB,GRID2IP,KDELR2,RAC1 |
| 25 | 38,850,000 | 39,000,000 | 519 | 660 | 0.530859538 | C25H7ORF26,DAGLB,GRID2IP,KDELR2,ZDHHC4 |
| 25 | 38,925,000 | 39,075,000 | 520 | 759 | -1.675235756 | C25H7ORF26,GRID2IP,ZDHHC4,ZNF12,ZNF316,ENSBTAG0000038613,ENSBTAG00000040014 |
| 25 | 39,000,000 | 39,150,000 | 521 | 795 | -1.633681677 | RBAK,ZNF12,ZNF316,ENSBTAG00000005600,ENSBTAG000038613,ENSBTAG00000038627,ENSBTAG00000040014 |
| 25 | 39,075,000 | 39,225,000 | 522 | 610 | -0.011941682 | RBAK,RNF216,ENSBTAG00000005600,ENSBTAG00000038627,ENSBTAG00000040014,ENSBTAG00000048231 |
| 25 | 39,150,000 | 39,300,000 | 523 | 358 | 0.21019017 | FSCN1,RNF216,ENSBTAG00000048231 |
| 25 | 39,225,000 | 39,375,000 | 524 | 395 | 0.433195641 | ACTB,FBXL18,FSCN1,RNF216,ENSBTAG00000047781 |
| 25 | 39,300,000 | 39,450,000 | 525 | 545 | 0.401396848 | ACTB,FBXL18,FSCN1,TNRC18,ENSBTAG00000047781 |
| 25 | 39,375,000 | 39,525,000 | 526 | 479 | 0.552908471 | FBXL18,SLC29A4,TNRC18 |
| 25 | 39,450,000 | 39,600,000 | 527 | 611 | 0.794138462 | SLC29A4,TNRC18,WIPI2 |
| 25 | 39,525,000 | 39,675,000 | 528 | 972 | 0.742788581 | MMD2,SLC29A4,WIPI2 |
| 25 | 39,600,000 | 39,750,000 | 529 | 903 | 0.390888753 | KIAA0415,MMD2,RADIL |
| 25 | 39,675,000 | 39,825,000 | 530 | 757 | -0.213508831 | FOXK1,KIAA0415,RADIL |
| 25 | 39,750,000 | 39,900,000 | 531 | 850 | -1.025603798 | FOXK1 |
| 25 | 39,825,000 | 39,975,000 | 532 | 883 | -0.3117289 | |
| 25 | 39,900,000 | 40,050,000 | 533 | 909 | -0.536293712 | SDK1 |
| 25 | 39,975,000 | 40,125,000 | 534 | 1053 | -1.860655932 | SDK1 |
| 25 | 40,050,000 | 40,200,000 | 535 | 920 | -0.526476284 | SDK1 |
| 25 | 40,125,000 | 40,275,000 | 536 | 942 | 0.391543546 | SDK1 |
| 25 | 40,200,000 | 40,350,000 | 537 | 1147 | 0.12329106 | |
| 25 | 40,275,000 | 40,425,000 | 538 | 1596 | 0.654157927 | |
| 25 | 40,350,000 | 40,500,000 | 539 | 1739 | 0.716032134 | |
| 25 | 40,425,000 | 40,575,000 | 540 | 1277 | 0.387465072 | |
| 25 | 40,500,000 | 40,650,000 | 541 | 1151 | 0.736872852 | |
| 25 | 40,575,000 | 40,725,000 | 542 | 1207 | 0.965543361 | |
| 25 | 40,650,000 | 40,800,000 | 543 | 1202 | 1.068153579 | |
| 25 | 40,725,000 | 40,875,000 | 544 | 1245 | 0.956641045 | |
| 25 | 40,800,000 | 40,950,000 | 545 | 1110 | 0.69327799 | |
| 25 | 40,875,000 | 41,025,000 | 546 | 969 | 0.439890377 | CARD11 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 40,950,000 | 41,100,000 | 547 | 802 | 0.247960108 | CARD11,GNA12 |
| 25 | 41,025,000 | 41,175,000 | 548 | 827 | 0.148732823 | CARD11,GNA12 |
| 25 | 41,100,000 | 41,250,000 | 549 | 941 | 0.114998408 | AMZ1,BRAT1,GNA12,IQCE |
| 25 | 41,175,000 | 41,325,000 | 550 | 672 | -0.02127313 | AMZ1,BRAT1,IQCE,LFNG,TTYH3 |
| 25 | 41,250,000 | 41,400,000 | 551 | 576 | 0.472299388 | CHST12,GRIFIN,IQCE,LFNG,TTYH3 |
| 25 | 41,325,000 | 41,475,000 | 552 | 679 | 0.389719889 | CHST12,EIF3B,GRIFIN,ENSBTAG00000038978 |
| 25 | 41,400,000 | 41,550,000 | 553 | 1046 | 0.876608711 | EIF3B,FTSJ2,MAD1L1,NUDT1,SNX8,ENSBTAG00000038978 |
| 25 | 41,475,000 | 41,625,000 | 554 | 1441 | 1.159633317 | FTSJ2,MAD1L1,NUDT1,SNX8 |
| 25 | 41,550,000 | 41,700,000 | 555 | 1062 | 0.698069424 | MAD1L1 |
| 25 | 41,625,000 | 41,775,000 | 556 | 530 | -2.197905365 | MAD1L1 |
| 25 | 41,700,000 | 41,850,000 | 557 | 748 | -2.216871314 | ELFN1,MAD1L1 |
| 25 | 41,775,000 | 41,925,000 | 558 | 812 | -0.751177099 | ELFN1,MAD1L1 |
| 25 | 41,850,000 | 42,000,000 | 559 | 624 | 0.313863533 | INTS1,MAFK,PSMG3,TMEM184A |
| 25 | 41,925,000 | 42,075,000 | 560 | 624 | -0.748864909 | INTS1,MAFK,MICALL2,PSMG3,TMEM184A |
| 25 | 42,000,000 | 42,150,000 | 561 | 548 | -1.527661659 | INTS1,MICALL2 |
| 25 | 42,075,000 | 42,225,000 | 562 | 580 | -1.433253883 | UNCX,ZFAND2A |
| 25 | 42,150,000 | 42,300,000 | 563 | 484 | -1.377255488 | C25H7ORF50,GPER1,GPR146,UNCX,ZFAND2A |
| 25 | 42,225,000 | 42,375,000 | 564 | 349 | 0.240200483 | ADAP1,C25H7ORF50,COX19,CYP2W1,GPER1,GPR146,ZFAND2A |
| 25 | 42,300,000 | 42,450,000 | 565 | 393 | 0.420185839 | ADAP1,C25H7ORF50,COX19,CYP2W1,GET4,HEATR2,ENSBTAG00000046498 |
| 25 | 42,375,000 | 42,525,000 | 566 | 645 | 0.264962664 | GET4,HEATR2,PRKAR1B,ENSBTAG00000046498 |
| 25 | 42,450,000 | 42,600,000 | 567 | 594 | 0.366979699 | HEATR2,PDGFA,PRKAR1B |
| 25 | 42,525,000 | 42,675,000 | 568 | 366 | 0.226900813 | PDGFA,PRKAR1B |
| 25 | 42,600,000 | 42,750,000 | 569 | 517 | -0.228199198 | FAM20C |
| 25 | 42,675,000 | 42,825,000 | 570 | 464 | -1.836156889 | FAM20C,ENSBTAG00000006239 |
| 25 | 42,750,000 | 42,900,000 | 571 | 382 | -5.000372581 | ENSBTAG00000006239 |
| 25 | 42,825,000 | 42,904,170 | 572 | 233 | -4.443689831 | |
| 26 | 0 | 150,000 | 1 | 88 | 0.494375145 | ENSBTAG00000038930,ENSBTAG00000040222 |
| 26 | 75,000 | 225,000 | 2 | 104 | 0.475244055 | ENSBTAG00000040222 |
| 26 | 150,000 | 300,000 | 3 | 85 | 0.500309737 | |
| 26 | 225,000 | 375,000 | 4 | 40 | 0.920491437 | ENSBTAG00000008152 |
| 26 | 300,000 | 450,000 | 5 | 36 | 1.248037243 | ENSBTAG00000008152,ENSBTAG00000035282,ENSBTAG0000046109 |
| 26 | 375,000 | 525,000 | 6 | 35 | 1.003405402 | ENSBTAG00000035282,ENSBTAG00000046109 |
| 26 | 450,000 | 600,000 | 7 | 35 | 0.49779461 | |
| 26 | 525,000 | 675,000 | 8 | 41 | 0.694945816 | UBE2D1 |
| 26 | 600,000 | 750,000 | 9 | 189 | 1.272376502 | CISD1,UBE2D1 |
| 26 | 675,000 | 825,000 | 10 | 359 | 0.766682952 | CISD1,IPMK,UBE2D1 |
| 26 | 750,000 | 900,000 | 11 | 384 | 0.221986763 | CISD1,IPMK |
| 26 | 825,000 | 975,000 | 12 | 548 | 0.971442132 | |
| 26 | 900,000 | 1,050,000 | 13 | 919 | 0.629275762 | |
| 26 | 975,000 | 1,125,000 | 14 | 1034 | 0.345714038 | |
| 26 | 1,050,000 | 1,200,000 | 15 | 1211 | 0.667880532 | |
| 26 | 1,125,000 | 1,275,000 | 16 | 1375 | 0.39395132 | |
| 26 | 1,200,000 | 1,350,000 | 17 | 1371 | -0.036825776 | |
| 26 | 1,275,000 | 1,425,000 | 18 | 1284 | 0.120170604 | |
| 26 | 1,350,000 | 1,500,000 | 19 | 772 | 0.155558871 | |
| 26 | 1,425,000 | 1,575,000 | 20 | 589 | 0.282201133 | |
| 26 | 1,500,000 | 1,650,000 | 21 | 914 | 0.910750327 | |
| 26 | 1,575,000 | 1,725,000 | 22 | 1130 | 1.065280539 | |
| 26 | 1,650,000 | 1,800,000 | 23 | 1085 | 0.834846332 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------------------|
| 26 | 1,725,000 | 1,875,000 | 24 | 1332 | -0.672268353 | |
| 26 | 1,800,000 | 1,950,000 | 25 | 1430 | -0.798268993 | |
| 26 | 1,875,000 | 2,025,000 | 26 | 854 | 1.050489898 | |
| 26 | 1,950,000 | 2,100,000 | 27 | 657 | 0.871924343 | |
| 26 | 2,025,000 | 2,175,000 | 28 | 972 | 0.662188609 | |
| 26 | 2,100,000 | 2,250,000 | 29 | 1011 | -0.311367358 | |
| 26 | 2,175,000 | 2,325,000 | 30 | 1042 | -0.509104014 | |
| 26 | 2,250,000 | 2,400,000 | 31 | 1116 | 0.152870458 | |
| 26 | 2,325,000 | 2,475,000 | 32 | 1180 | 0.521715137 | |
| 26 | 2,400,000 | 2,550,000 | 33 | 1028 | 0.192963357 | |
| 26 | 2,475,000 | 2,625,000 | 34 | 601 | -0.814497216 | |
| 26 | 2,550,000 | 2,700,000 | 35 | 765 | 0.225459138 | |
| 26 | 2,625,000 | 2,775,000 | 36 | 782 | 0.717672256 | |
| 26 | 2,700,000 | 2,850,000 | 37 | 1078 | 1.271566061 | |
| 26 | 2,775,000 | 2,925,000 | 38 | 1448 | 1.180172563 | ENSBTAG00000002655 |
| 26 | 2,850,000 | 3,000,000 | 39 | 1064 | 0.875843118 | ENSBTAG00000002655 |
| 26 | 2,925,000 | 3,075,000 | 40 | 544 | -0.171820508 | |
| 26 | 3,000,000 | 3,150,000 | 41 | 235 | -0.485808042 | |
| 26 | 3,075,000 | 3,225,000 | 42 | 689 | 1.267935564 | |
| 26 | 3,150,000 | 3,300,000 | 43 | 1476 | 1.382189315 | |
| 26 | 3,225,000 | 3,375,000 | 44 | 1457 | 1.373214838 | |
| 26 | 3,300,000 | 3,450,000 | 45 | 878 | 1.139562729 | |
| 26 | 3,375,000 | 3,525,000 | 46 | 761 | 0.768450623 | |
| 26 | 3,450,000 | 3,600,000 | 47 | 1333 | 0.961816307 | |
| 26 | 3,525,000 | 3,675,000 | 48 | 1417 | 0.139147175 | |
| 26 | 3,600,000 | 3,750,000 | 49 | 1083 | -2.371387264 | |
| 26 | 3,675,000 | 3,825,000 | 50 | 993 | -2.368447965 | |
| 26 | 3,750,000 | 3,900,000 | 51 | 1101 | -2.94804445 | |
| 26 | 3,825,000 | 3,975,000 | 52 | 1090 | -2.658283798 | |
| 26 | 3,900,000 | 4,050,000 | 53 | 1129 | 0.611077313 | |
| 26 | 3,975,000 | 4,125,000 | 54 | 1082 | 0.774105686 | |
| 26 | 4,050,000 | 4,200,000 | 55 | 697 | -1.310975455 | |
| 26 | 4,125,000 | 4,275,000 | 56 | 1038 | -1.367827865 | |
| 26 | 4,200,000 | 4,350,000 | 57 | 975 | -0.212904477 | |
| 26 | 4,275,000 | 4,425,000 | 58 | 778 | 0.489394512 | |
| 26 | 4,350,000 | 4,500,000 | 59 | 976 | 0.563755538 | |
| 26 | 4,425,000 | 4,575,000 | 60 | 1176 | -0.70170151 | |
| 26 | 4,500,000 | 4,650,000 | 61 | 1125 | -1.041893175 | |
| 26 | 4,575,000 | 4,725,000 | 62 | 945 | -0.741675555 | |
| 26 | 4,650,000 | 4,800,000 | 63 | 1219 | 0.117092652 | |
| 26 | 4,725,000 | 4,875,000 | 64 | 1125 | 0.943449413 | |
| 26 | 4,800,000 | 4,950,000 | 65 | 960 | 0.568483461 | |
| 26 | 4,875,000 | 5,025,000 | 66 | 1147 | -0.341662931 | PCDH15 |
| 26 | 4,950,000 | 5,100,000 | 67 | 1369 | -0.31947314 | PCDH15 |
| 26 | 5,025,000 | 5,175,000 | 68 | 1687 | 0.437915601 | PCDH15 |
| 26 | 5,100,000 | 5,250,000 | 69 | 1835 | 0.673953381 | PCDH15 |
| 26 | 5,175,000 | 5,325,000 | 70 | 1856 | 0.756379182 | PCDH15 |
| 26 | 5,250,000 | 5,400,000 | 71 | 1110 | 0.297693906 | PCDH15 |
| 26 | 5,325,000 | 5,475,000 | 72 | 665 | -1.162375122 | PCDH15 |
| 26 | 5,400,000 | 5,550,000 | 73 | 1189 | -0.128071422 | PCDH15 |
| 26 | 5,475,000 | 5,625,000 | 74 | 1414 | -0.018778118 | PCDH15 |
| 26 | 5,550,000 | 5,700,000 | 75 | 1696 | -2.015688531 | PCDH15 |
| 26 | 5,625,000 | 5,775,000 | 76 | 1524 | -1.482553575 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--------------------------|
| 26 | 5,700,000 | 5,850,000 | 77 | 1164 | 0.898335186 | |
| 26 | 5,775,000 | 5,925,000 | 78 | 1070 | 0.646058051 | |
| 26 | 5,850,000 | 6,000,000 | 79 | 941 | 0.564361738 | |
| 26 | 5,925,000 | 6,075,000 | 80 | 1112 | 1.027918512 | |
| 26 | 6,000,000 | 6,150,000 | 81 | 1279 | 1.071846578 | |
| 26 | 6,075,000 | 6,225,000 | 82 | 1274 | 0.3523209 | |
| 26 | 6,150,000 | 6,300,000 | 83 | 967 | -0.184604224 | |
| 26 | 6,225,000 | 6,375,000 | 84 | 783 | -1.217900351 | MBL |
| 26 | 6,300,000 | 6,450,000 | 85 | 647 | -1.582002448 | MBL |
| 26 | 6,375,000 | 6,525,000 | 86 | 356 | -0.874574899 | |
| 26 | 6,450,000 | 6,600,000 | 87 | 310 | 0.300339299 | |
| 26 | 6,525,000 | 6,675,000 | 88 | 477 | -0.655050997 | |
| 26 | 6,600,000 | 6,750,000 | 89 | 641 | -0.219315463 | |
| 26 | 6,675,000 | 6,825,000 | 90 | 604 | 0.487679328 | |
| 26 | 6,750,000 | 6,900,000 | 91 | 427 | 0.054786356 | DKK1 |
| 26 | 6,825,000 | 6,975,000 | 92 | 556 | 0.682201175 | DKK1,PRKG1 |
| 26 | 6,900,000 | 7,050,000 | 93 | 912 | 0.990248227 | PRKG1 |
| 26 | 6,975,000 | 7,125,000 | 94 | 807 | 0.95685384 | PRKG1 |
| 26 | 7,050,000 | 7,200,000 | 95 | 745 | 1.135410689 | PRKG1 |
| 26 | 7,125,000 | 7,275,000 | 96 | 1077 | 0.361234741 | PRKG1 |
| 26 | 7,200,000 | 7,350,000 | 97 | 1386 | 0.330261234 | PRKG1 |
| 26 | 7,275,000 | 7,425,000 | 98 | 1279 | 1.120592555 | PRKG1 |
| 26 | 7,350,000 | 7,500,000 | 99 | 864 | 0.779423396 | CSTF2T,PRKG1 |
| 26 | 7,425,000 | 7,575,000 | 100 | 937 | 0.283637032 | CSTF2T,PRKG1 |
| 26 | 7,500,000 | 7,650,000 | 101 | 1203 | 0.397028828 | PRKG1 |
| 26 | 7,575,000 | 7,725,000 | 102 | 1340 | 0.604149387 | PRKG1 |
| 26 | 7,650,000 | 7,800,000 | 103 | 1067 | -0.344368239 | PRKG1 |
| 26 | 7,725,000 | 7,875,000 | 104 | 699 | -2.072054467 | PRKG1 |
| 26 | 7,800,000 | 7,950,000 | 105 | 684 | -1.476751147 | PRKG1 |
| 26 | 7,875,000 | 8,025,000 | 106 | 496 | -0.654563054 | PRKG1 |
| 26 | 7,950,000 | 8,100,000 | 107 | 591 | -0.039704153 | PRKG1 |
| 26 | 8,025,000 | 8,175,000 | 108 | 871 | -0.107021126 | PRKG1 |
| 26 | 8,100,000 | 8,250,000 | 109 | 818 | 0.524822752 | PRKG1 |
| 26 | 8,175,000 | 8,325,000 | 110 | 571 | 0.531312785 | PRKG1 |
| 26 | 8,250,000 | 8,400,000 | 111 | 492 | -0.443778255 | PRKG1 |
| 26 | 8,325,000 | 8,475,000 | 112 | 719 | -1.080782599 | PRKG1 |
| 26 | 8,400,000 | 8,550,000 | 113 | 860 | -0.782746089 | A1CF |
| 26 | 8,475,000 | 8,625,000 | 114 | 707 | -0.480024836 | A1CF |
| 26 | 8,550,000 | 8,700,000 | 115 | 724 | -0.544302574 | A1CF,ENSBTAG00000003529 |
| 26 | 8,625,000 | 8,775,000 | 116 | 871 | -0.351555777 | SGMS1,ENSBTAG00000003529 |
| 26 | 8,700,000 | 8,850,000 | 117 | 779 | 0.121521878 | SGMS1 |
| 26 | 8,775,000 | 8,925,000 | 118 | 580 | 0.072425632 | SGMS1 |
| 26 | 8,850,000 | 9,000,000 | 119 | 638 | -0.37108605 | |
| 26 | 8,925,000 | 9,075,000 | 120 | 610 | 0.246926056 | |
| 26 | 9,000,000 | 9,150,000 | 121 | 516 | 0.496682731 | |
| 26 | 9,075,000 | 9,225,000 | 122 | 466 | 0.416231145 | MINPP1 |
| 26 | 9,150,000 | 9,300,000 | 123 | 613 | 0.970617331 | MINPP1 |
| 26 | 9,225,000 | 9,375,000 | 124 | 735 | 0.28240832 | MINPP1,PAPSS2 |
| 26 | 9,300,000 | 9,450,000 | 125 | 490 | -0.823924869 | ATAD1,PAPSS2 |
| 26 | 9,375,000 | 9,525,000 | 126 | 439 | 0.099712477 | ATAD1,PAPSS2,PTEN |
| 26 | 9,450,000 | 9,600,000 | 127 | 461 | 0.792768692 | PTEN |
| 26 | 9,525,000 | 9,675,000 | 128 | 683 | 0.582467071 | PTEN |
| 26 | 9,600,000 | 9,750,000 | 129 | 755 | -0.196528941 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 26 | 9,675,000 | 9,825,000 | 130 | 589 | -0.658518579 | |
| 26 | 9,750,000 | 9,900,000 | 131 | 544 | -0.712591664 | |
| 26 | 9,825,000 | 9,975,000 | 132 | 411 | -3.520466521 | |
| 26 | 9,900,000 | 10,050,000 | 133 | 276 | -4.437040593 | |
| 26 | 9,975,000 | 10,125,000 | 134 | 594 | 0.488392438 | |
| 26 | 10,050,000 | 10,200,000 | 135 | 861 | 0.745102434 | |
| 26 | 10,125,000 | 10,275,000 | 136 | 1084 | 0.272439826 | LIPJ |
| 26 | 10,200,000 | 10,350,000 | 137 | 1322 | -0.670572815 | LIPJ |
| 26 | 10,275,000 | 10,425,000 | 138 | 1173 | -1.442723703 | |
| 26 | 10,350,000 | 10,500,000 | 139 | 1068 | -1.397756663 | LIPF,LIPK,LIPN |
| 26 | 10,425,000 | 10,575,000 | 140 | 886 | -1.232527517 | ANKRD22,LIPF,LIPK,LIPM,LIPN |
| 26 | 10,500,000 | 10,650,000 | 141 | 648 | -0.093181149 | ANKRD22,LIPM,STAMBPL1 |
| 26 | 10,575,000 | 10,725,000 | 142 | 498 | 0.625351269 | ACTA2,FAS,STAMBPL1 |
| 26 | 10,650,000 | 10,800,000 | 143 | 682 | -0.511858188 | ACTA2,FAS,STAMBPL1 |
| 26 | 10,725,000 | 10,875,000 | 144 | 647 | -1.617287541 | FAS |
| 26 | 10,800,000 | 10,950,000 | 145 | 453 | -1.313189052 | |
| 26 | 10,875,000 | 11,025,000 | 146 | 837 | -0.228058277 | CH25H,LIPA |
| 26 | 10,950,000 | 11,100,000 | 147 | 998 | -0.394363857 | CH25H,IFIT2,IFIT3,LIPA |
| 26 | 11,025,000 | 11,175,000 | 148 | 654 | -0.065167074 | IFIT1,IFIT2,IFIT3,IFIT5,LIPA,SLC16A12 |
| 26 | 11,100,000 | 11,250,000 | 149 | 414 | 0.078169131 | IFIT1,IFIT5,SLC16A12 |
| 26 | 11,175,000 | 11,325,000 | 150 | 336 | -0.011764204 | PANK1 |
| 26 | 11,250,000 | 11,400,000 | 151 | 325 | 0.448544871 | PANK1,ENSBTAG00000005708 |
| 26 | 11,325,000 | 11,475,000 | 152 | 395 | 0.58752956 | PANK1,ENSBTAG00000005708 |
| 26 | 11,400,000 | 11,550,000 | 153 | 612 | -0.986650528 | ENSBTAG00000005708 |
| 26 | 11,475,000 | 11,625,000 | 154 | 690 | -0.225225819 | |
| 26 | 11,550,000 | 11,700,000 | 155 | 480 | 0.743466736 | |
| 26 | 11,625,000 | 11,775,000 | 156 | 849 | 0.480531174 | |
| 26 | 11,700,000 | 11,850,000 | 157 | 1219 | 0.825472489 | |
| 26 | 11,775,000 | 11,925,000 | 158 | 1081 | 0.560418172 | |
| 26 | 11,850,000 | 12,000,000 | 159 | 1090 | -0.269834632 | |
| 26 | 11,925,000 | 12,075,000 | 160 | 1011 | -1.31853351 | |
| 26 | 12,000,000 | 12,150,000 | 161 | 733 | -1.657370508 | |
| 26 | 12,075,000 | 12,225,000 | 162 | 692 | -0.398849308 | |
| 26 | 12,150,000 | 12,300,000 | 163 | 673 | -0.308586979 | ENSBTAG00000034597 |
| 26 | 12,225,000 | 12,375,000 | 164 | 672 | -0.16976877 | ENSBTAG00000034597 |
| 26 | 12,300,000 | 12,450,000 | 165 | 736 | 0.859997663 | HTR7 |
| 26 | 12,375,000 | 12,525,000 | 166 | 635 | 1.362431551 | HTR7 |
| 26 | 12,450,000 | 12,600,000 | 167 | 629 | 0.779137655 | ANKRD1,HTR7,RPP30 |
| 26 | 12,525,000 | 12,675,000 | 168 | 450 | -0.880677408 | ANKRD1,RPP30 |
| 26 | 12,600,000 | 12,750,000 | 169 | 326 | -0.613169409 | |
| 26 | 12,675,000 | 12,825,000 | 170 | 611 | 0.22689385 | |
| 26 | 12,750,000 | 12,900,000 | 171 | 617 | -0.009621295 | PCGF5 |
| 26 | 12,825,000 | 12,975,000 | 172 | 723 | 0.583034858 | PCGF5 |
| 26 | 12,900,000 | 13,050,000 | 173 | 697 | 0.956849764 | PCGF5 |
| 26 | 12,975,000 | 13,125,000 | 174 | 625 | 1.096138832 | HECTD2 |
| 26 | 13,050,000 | 13,200,000 | 175 | 662 | 0.934785089 | HECTD2 |
| 26 | 13,125,000 | 13,275,000 | 176 | 606 | -0.342754302 | HECTD2,PPP1R3C |
| 26 | 13,200,000 | 13,350,000 | 177 | 665 | -0.50068787 | PPP1R3C |
| 26 | 13,275,000 | 13,425,000 | 178 | 769 | 0.411846002 | TNKS2 |
| 26 | 13,350,000 | 13,500,000 | 179 | 1043 | 0.258160013 | FGFBP3,TNKS2 |
| 26 | 13,425,000 | 13,575,000 | 180 | 758 | -0.143713811 | BTA1F1,FGFBP3,TNKS2 |
| 26 | 13,500,000 | 13,650,000 | 181 | 576 | 0.052082163 | BTA1F1,CPEB3 |
| 26 | 13,575,000 | 13,725,000 | 182 | 549 | 0.519396161 | BTA1F1,CPEB3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 26 | 13,650,000 | 13,800,000 | 183 | 438 | 0.905867372 | CPEB3 |
| 26 | 13,725,000 | 13,875,000 | 184 | 419 | 0.945108359 | CPEB3,MARCH5 |
| 26 | 13,800,000 | 13,950,000 | 185 | 415 | 0.829460679 | IDE,MARCH5 |
| 26 | 13,875,000 | 14,025,000 | 186 | 611 | -0.225077775 | IDE |
| 26 | 13,950,000 | 14,100,000 | 187 | 588 | -0.194880446 | IDE,KIF11 |
| 26 | 14,025,000 | 14,175,000 | 188 | 639 | 0.024589768 | HHEX,KIF11 |
| 26 | 14,100,000 | 14,250,000 | 189 | 688 | -0.91198694 | HHEX |
| 26 | 14,175,000 | 14,325,000 | 190 | 438 | -0.708111777 | EXOC6 |
| 26 | 14,250,000 | 14,400,000 | 191 | 274 | 0.777456944 | EXOC6 |
| 26 | 14,325,000 | 14,475,000 | 192 | 222 | 0.817701342 | CYP26A1,CYP26C1,EXOC6 |
| 26 | 14,400,000 | 14,550,000 | 193 | 465 | 0.259537498 | CYP26A1,CYP26C1,EXOC6 |
| 26 | 14,475,000 | 14,625,000 | 194 | 569 | 0.045299582 | |
| 26 | 14,550,000 | 14,700,000 | 195 | 495 | 0.216263314 | MYOF |
| 26 | 14,625,000 | 14,775,000 | 196 | 559 | 0.272697549 | MYOF |
| 26 | 14,700,000 | 14,850,000 | 197 | 781 | 1.035645395 | MYOF |
| 26 | 14,775,000 | 14,925,000 | 198 | 918 | 1.207406058 | CEP55,FFAR4,MYOF |
| 26 | 14,850,000 | 15,000,000 | 199 | 911 | 1.014574114 | CEP55,FFAR4,PDE6C,RBP4 |
| 26 | 14,925,000 | 15,075,000 | 200 | 708 | 0.681147175 | C26H10ORF4,FFAR4,PDE6C,RBP4 |
| 26 | 15,000,000 | 15,150,000 | 201 | 565 | -0.194622613 | C26H10ORF4,PDE6C,ENSBTAG00000005106,ENSBTAG0000048118 |
| 26 | 15,075,000 | 15,225,000 | 202 | 739 | 0.318904616 | ENSBTAG00000005106,ENSBTAG00000048118 |
| 26 | 15,150,000 | 15,300,000 | 203 | 763 | 0.892265017 | TMEM20 |
| 26 | 15,225,000 | 15,375,000 | 204 | 735 | 0.873069455 | PLCE1,TMEM20 |
| 26 | 15,300,000 | 15,450,000 | 205 | 759 | 0.862830828 | PLCE1 |
| 26 | 15,375,000 | 15,525,000 | 206 | 611 | 0.339545464 | PLCE1 |
| 26 | 15,450,000 | 15,600,000 | 207 | 542 | -0.572211378 | PLCE1 |
| 26 | 15,525,000 | 15,675,000 | 208 | 739 | -0.781502257 | PLCE1 |
| 26 | 15,600,000 | 15,750,000 | 209 | 709 | -0.716909804 | NOC3L,PLCE1 |
| 26 | 15,675,000 | 15,825,000 | 210 | 374 | 0.078653942 | NOC3L,PLCE1,TBC1D12 |
| 26 | 15,750,000 | 15,900,000 | 211 | 189 | 1.072054125 | HELLS,TBC1D12 |
| 26 | 15,825,000 | 15,975,000 | 212 | 293 | 0.88398117 | CYP2C18,HELLS,TBC1D12 |
| 26 | 15,900,000 | 16,050,000 | 213 | 672 | 1.227478572 | CYP2C18,CYP2C87 |
| 26 | 15,975,000 | 16,125,000 | 214 | 833 | 1.37292725 | CYP2C87 |
| 26 | 16,050,000 | 16,200,000 | 215 | 765 | 1.281752614 | CYP2C87,ENSBTAG00000020375 |
| 26 | 16,125,000 | 16,275,000 | 216 | 769 | 1.211824401 | ENSBTAG00000020375,ENSBTAG00000023955 |
| 26 | 16,200,000 | 16,350,000 | 217 | 610 | 1.06248258 | CYP2C19,ENSBTAG00000023955 |
| 26 | 16,275,000 | 16,425,000 | 218 | 538 | 0.780135853 | CYP2C19,ENSBTAG00000023955,ENSBTAG00000024700 |
| 26 | 16,350,000 | 16,500,000 | 219 | 609 | 0.632365123 | CYP2C19,ENSBTAG00000024700,ENSBTAG00000047324 |
| 26 | 16,425,000 | 16,575,000 | 220 | 983 | 1.125946593 | ENSBTAG00000024700,ENSBTAG00000047324 |
| 26 | 16,500,000 | 16,650,000 | 221 | 1390 | 1.285354573 | PDLIM1,ENSBTAG00000047324 |
| 26 | 16,575,000 | 16,725,000 | 222 | 1225 | 0.905751061 | PDLIM1,SORBS1 |
| 26 | 16,650,000 | 16,800,000 | 223 | 654 | 0.205843545 | SORBS1 |
| 26 | 16,725,000 | 16,875,000 | 224 | 629 | 0.407480228 | SORBS1 |
| 26 | 16,800,000 | 16,950,000 | 225 | 889 | 0.318436083 | SORBS1 |
| 26 | 16,875,000 | 17,025,000 | 226 | 1144 | 0.258874779 | ALDH18A1,SORBS1,TCTN3 |
| 26 | 16,950,000 | 17,100,000 | 227 | 1130 | 0.143405667 | ALDH18A1,ENTPD1,TCTN3 |
| 26 | 17,025,000 | 17,175,000 | 228 | 797 | 0.25775176 | ENTPD1,ENSBTAG00000039132 |
| 26 | 17,100,000 | 17,250,000 | 229 | 967 | 1.003754 | ENTPD1,ENSBTAG00000039132 |
| 26 | 17,175,000 | 17,325,000 | 230 | 879 | 0.427239788 | CCNJ,ENSBTAG00000039132 |
| 26 | 17,250,000 | 17,400,000 | 231 | 467 | -0.328389467 | BLNK,CCNJ,ZNF518A,ENSBTAG00000039132 |
| 26 | 17,325,000 | 17,475,000 | 232 | 710 | 0.268248635 | BLNK,ZNF518A |
| 26 | 17,400,000 | 17,550,000 | 233 | 935 | 0.170277622 | BLNK,DNTT,OPALIN |
| 26 | 17,475,000 | 17,625,000 | 234 | 740 | 0.274552004 | DNTT,OPALIN,TLL2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 26 | 17,550,000 | 17,700,000 | 235 | 819 | 0.091818257 | OPALIN,TLL2 |
| 26 | 17,625,000 | 17,775,000 | 236 | 640 | 0.057345919 | TLL2,TM9SF3 |
| 26 | 17,700,000 | 17,850,000 | 237 | 400 | 0.531152697 | PIK3AP1,TM9SF3 |
| 26 | 17,775,000 | 17,925,000 | 238 | 414 | 0.381973867 | PIK3AP1 |
| 26 | 17,850,000 | 18,000,000 | 239 | 384 | -0.278400292 | |
| 26 | 17,925,000 | 18,075,000 | 240 | 416 | -0.112083704 | |
| 26 | 18,000,000 | 18,150,000 | 241 | 404 | 0.285707265 | C10orf12,LCOR,SLIT1 |
| 26 | 18,075,000 | 18,225,000 | 242 | 476 | -0.194117253 | C10orf12,LCOR,SLIT1 |
| 26 | 18,150,000 | 18,300,000 | 243 | 636 | -2.431875199 | SLIT1 |
| 26 | 18,225,000 | 18,375,000 | 244 | 516 | -3.484198806 | ENSBTAG00000040427 |
| 26 | 18,300,000 | 18,450,000 | 245 | 341 | -1.703790115 | FRAT2,ENSBTAG0000007956,ENSBTAG00000040427 |
| 26 | 18,375,000 | 18,525,000 | 246 | 326 | -1.103771853 | EXOSC1,FRAT2,PGAM1,RRP12,ENSBTAG0000007956,ENSBTAG00000040427 |
| 26 | 18,450,000 | 18,600,000 | 247 | 302 | -0.031409858 | EXOSC1,MMS19,PGAM1,RRP12,UBTD1,ZDHHC16 |
| 26 | 18,525,000 | 18,675,000 | 248 | 561 | -0.630671766 | ANKRD2,EXOSC1,HOGA1,MMS19,MORN4,UBTD1,ZDHHC16 |
| 26 | 18,600,000 | 18,750,000 | 249 | 665 | -0.438023256 | ANKRD2,AVPI1,HOGA1,MARVELD1,MORN4,PI4K2A,UBTD1 |
| 26 | 18,675,000 | 18,825,000 | 250 | 755 | 0.985601741 | AVPI1,MARVELD1,PI4K2A,SFRP5,ZFYVE27 |
| 26 | 18,750,000 | 18,900,000 | 251 | 816 | 0.789680237 | CRTAC1,GOLGA7B,SFRP5,ZFYVE27 |
| 26 | 18,825,000 | 18,975,000 | 252 | 699 | 0.633685882 | CRTAC1,GOLGA7B |
| 26 | 18,900,000 | 19,050,000 | 253 | 707 | 0.984357994 | CRTAC1 |
| 26 | 18,975,000 | 19,125,000 | 254 | 731 | 1.077450435 | CRTAC1 |
| 26 | 19,050,000 | 19,200,000 | 255 | 604 | 0.825286757 | R3HCC1L |
| 26 | 19,125,000 | 19,275,000 | 256 | 771 | -0.330948145 | LOXL4,R3HCC1L,ENSBTAG00000046848 |
| 26 | 19,200,000 | 19,350,000 | 257 | 963 | -0.013155225 | LOXL4,PYROXD2,ENSBTAG00000046848 |
| 26 | 19,275,000 | 19,425,000 | 258 | 713 | 0.659696888 | HPS1,PYROXD2 |
| 26 | 19,350,000 | 19,500,000 | 259 | 661 | 0.586032269 | HPS1,PYROXD2 |
| 26 | 19,425,000 | 19,575,000 | 260 | 604 | 0.848027253 | |
| 26 | 19,500,000 | 19,650,000 | 261 | 503 | 0.885682353 | |
| 26 | 19,575,000 | 19,725,000 | 262 | 392 | 0.71756318 | |
| 26 | 19,650,000 | 19,800,000 | 263 | 247 | 0.867504254 | |
| 26 | 19,725,000 | 19,875,000 | 264 | 274 | 0.572361844 | |
| 26 | 19,800,000 | 19,950,000 | 265 | 503 | 0.015194682 | |
| 26 | 19,875,000 | 20,025,000 | 266 | 661 | 0.25721004 | |
| 26 | 19,950,000 | 20,100,000 | 267 | 685 | 0.899720401 | |
| 26 | 20,025,000 | 20,175,000 | 268 | 438 | 1.127761452 | |
| 26 | 20,100,000 | 20,250,000 | 269 | 221 | 1.020888902 | CNNM1 |
| 26 | 20,175,000 | 20,325,000 | 270 | 244 | 0.970731826 | CNNM1,GOT1 |
| 26 | 20,250,000 | 20,400,000 | 271 | 316 | 0.291976599 | CNNM1,GOT1 |
| 26 | 20,325,000 | 20,475,000 | 272 | 477 | 0.324917843 | NKX2-3,SLC25A28 |
| 26 | 20,400,000 | 20,550,000 | 273 | 535 | -0.218005384 | COX15,ENTPD7,NKX2-3,SLC25A28,ENSBTAG00000023629 |
| 26 | 20,475,000 | 20,625,000 | 274 | 946 | 0.049568664 | ABCC2,COX15,CUTC,ENTPD7,SLC25A28,ENSBTAG00000023629 |
| 26 | 20,550,000 | 20,700,000 | 275 | 1259 | 0.9245109 | ABCC2,COX15,CUTC,DNMBP |
| 26 | 20,625,000 | 20,775,000 | 276 | 1167 | 0.69702351 | ABCC2,DNMBP |
| 26 | 20,700,000 | 20,850,000 | 277 | 1007 | 0.327315947 | CPN1,DNMBP |
| 26 | 20,775,000 | 20,925,000 | 278 | 688 | 0.286726248 | CPN1,DNMBP,ERLIN1,ENSBTAG00000023939 |
| 26 | 20,850,000 | 21,000,000 | 279 | 678 | 0.466928098 | CHUK,CPN1,ERLIN1,ENSBTAG00000023939 |
| 26 | 20,925,000 | 21,075,000 | 280 | 782 | 0.589321866 | BLOC1S2,CHUK,CWF19L1,ERLIN1,PKD2L1 |
| 26 | 21,000,000 | 21,150,000 | 281 | 516 | 0.204273019 | BLOC1S2,CHUK,CWF19L1,PKD2L1,SCD |
| 26 | 21,075,000 | 21,225,000 | 282 | 365 | -1.181354965 | PKD2L1,SCD |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 21,150,000 | 21,300,000 | 283 | 483 | -0.389448803 | HIF1AN,NDUFB8,SEC31B,WNT8B |
| 26 | 21,225,000 | 21,375,000 | 284 | 705 | -0.816465997 | HIF1AN,NDUFB8,SEC31B,WNT8B |
| 26 | 21,300,000 | 21,450,000 | 285 | 601 | -1.152070359 | HIF1AN |
| 26 | 21,375,000 | 21,525,000 | 286 | 345 | 0.053648464 | PAX2 |
| 26 | 21,450,000 | 21,600,000 | 287 | 378 | 0.254212918 | PAX2 |
| 26 | 21,525,000 | 21,675,000 | 288 | 311 | 0.306190715 | C26H10ORF6,PAX2 |
| 26 | 21,600,000 | 21,750,000 | 289 | 237 | -0.693154345 | C26H10ORF2,C26H10ORF6,LZTS2,MRPL43,PDZD7,SEMA4G,SFXN3,ENSBTAG00000039834 |
| 26 | 21,675,000 | 21,825,000 | 290 | 288 | -1.061346686 | C26H10ORF2,KAZALD1,LZTS2,MRPL43,PDZD7,SEMA4G,SFXN3,TLX1,ENSBTAG00000039834 |
| 26 | 21,750,000 | 21,900,000 | 291 | 333 | -0.858897039 | KAZALD1,LBX1,TLX1 |
| 26 | 21,825,000 | 21,975,000 | 292 | 349 | -0.122885018 | LBX1,TLX1 |
| 26 | 21,900,000 | 22,050,000 | 293 | 457 | -0.224020869 | BTRC |
| 26 | 21,975,000 | 22,125,000 | 294 | 357 | -0.684588121 | BTRC |
| 26 | 22,050,000 | 22,200,000 | 295 | 156 | -0.017677803 | BTRC,POLL |
| 26 | 22,125,000 | 22,275,000 | 296 | 176 | -0.818266107 | BTRC,DPCD,FBXW4,POLL |
| 26 | 22,200,000 | 22,350,000 | 297 | 228 | -0.390618961 | DPCD,FBXW4,POLL |
| 26 | 22,275,000 | 22,425,000 | 298 | 283 | -1.421807732 | FBXW4,FGF8,KCNIP2,MGEA5,NPM3 |
| 26 | 22,350,000 | 22,500,000 | 299 | 349 | -1.460424328 | C10orf76,FGF8,KCNIP2,MGEA5,NPM3 |
| 26 | 22,425,000 | 22,575,000 | 300 | 389 | -1.552084817 | C10orf76,KCNIP2 |
| 26 | 22,500,000 | 22,650,000 | 301 | 352 | -2.186492138 | C10orf76,HPS6 |
| 26 | 22,575,000 | 22,725,000 | 302 | 262 | -0.876915027 | C10orf76,HPS6,LDB1,NOLC1,PPRC1 |
| 26 | 22,650,000 | 22,800,000 | 303 | 169 | 0.76136236 | ELOVL3,GBF1,LDB1,NOLC1,PITX3,PPRC1 |
| 26 | 22,725,000 | 22,875,000 | 304 | 124 | 0.49284753 | ELOVL3,GBF1,PITX3 |
| 26 | 22,800,000 | 22,950,000 | 305 | 141 | -0.142262249 | CUEDC2,FBXL15,GBF1,NFKB2,PSD,TMEM180 |
| 26 | 22,875,000 | 23,025,000 | 306 | 214 | -0.205032437 | ACTR1A,CUEDC2,FBXL15,GBF1,NFKB2,PSD,TMEM180 |
| 26 | 22,950,000 | 23,100,000 | 307 | 538 | 0.691169855 | ACTR1A,TMEM180 |
| 26 | 23,025,000 | 23,175,000 | 308 | 1012 | 0.997101789 | |
| 26 | 23,100,000 | 23,250,000 | 309 | 1036 | 0.974166759 | |
| 26 | 23,175,000 | 23,325,000 | 310 | 1012 | 0.300977939 | |
| 26 | 23,250,000 | 23,400,000 | 311 | 1133 | -0.17509415 | |
| 26 | 23,325,000 | 23,475,000 | 312 | 1092 | 0.345679979 | SUFU |
| 26 | 23,400,000 | 23,550,000 | 313 | 698 | 0.533461167 | SUFU,TRIM8 |
| 26 | 23,475,000 | 23,625,000 | 314 | 382 | 0.165028403 | ARL3,SFXN2,SUFU,TRIM8 |
| 26 | 23,550,000 | 23,700,000 | 315 | 568 | 0.303891981 | ARL3,CYP17A1,SFXN2,WBP1L |
| 26 | 23,625,000 | 23,775,000 | 316 | 467 | 0.330591943 | ARL3,AS3MT,CYP17A1,WBP1L,ENSBTAG00000021246 |
| 26 | 23,700,000 | 23,850,000 | 317 | 456 | 0.248358933 | ARL3,AS3MT,CNNM2,CYP17A1,ENSBTAG00000021246 |
| 26 | 23,775,000 | 23,925,000 | 318 | 1038 | -1.351686348 | CNNM2 |
| 26 | 23,850,000 | 24,000,000 | 319 | 998 | -1.483544948 | CNNM2,NT5C2 |
| 26 | 23,925,000 | 24,075,000 | 320 | 455 | 0.623632654 | CNNM2,NT5C2 |
| 26 | 24,000,000 | 24,150,000 | 321 | 383 | 0.654056595 | INA,NT5C2 |
| 26 | 24,075,000 | 24,225,000 | 322 | 481 | 0.759486432 | INA,NT5C2,TAF5,ENSBTAG00000009879,ENSBTAG00000038993 |
| 26 | 24,150,000 | 24,300,000 | 323 | 619 | 0.92717047 | CALHM1,CALHM2,PDCD11,TAF5,USMG5,ENSBTAG00000009879,ENSBTAG00000038993 |
| 26 | 24,225,000 | 24,375,000 | 324 | 756 | 0.996650748 | CALHM1,CALHM2,CALHM3,NEURL1,PDCD11,TAF5,USMG5 |
| 26 | 24,300,000 | 24,450,000 | 325 | 734 | 0.087936423 | CALHM3,NEURL1,SH3PXD2A |
| 26 | 24,375,000 | 24,525,000 | 326 | 692 | -0.375863687 | NEURL1,SH3PXD2A |
| 26 | 24,450,000 | 24,600,000 | 327 | 711 | 0.462537104 | SH3PXD2A |
| 26 | 24,525,000 | 24,675,000 | 328 | 623 | 0.345900707 | ASMTL |
| 26 | 24,600,000 | 24,750,000 | 329 | 561 | 0.177364179 | ASMTL,OBFC1 |
| 26 | 24,675,000 | 24,825,000 | 330 | 528 | -0.066665328 | ASMTL,OBFC1,SLK |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 24,750,000 | 24,900,000 | 331 | 455 | -0.031942611 | COL17A1,SLK |
| 26 | 24,825,000 | 24,975,000 | 332 | 429 | 0.366116762 | CFAP43,COL17A1,SFR1,SLK |
| 26 | 24,900,000 | 25,050,000 | 333 | 507 | -0.151738293 | CFAP43,SFR1 |
| 26 | 24,975,000 | 25,125,000 | 334 | 813 | -0.057396503 | CFAP43,GSTO2,ENSBTAG00000003989,ENSBTAG00000038540 |
| 26 | 25,050,000 | 25,200,000 | 335 | 1209 | -0.465166751 | CFAP43,CFAP58,GSTO2,ITPRIP,ENSBTAG00000003989,ENSBTAG00000038540 |
| 26 | 25,125,000 | 25,275,000 | 336 | 1025 | -0.508721757 | CFAP58,ITPRIP |
| 26 | 25,200,000 | 25,350,000 | 337 | 559 | 0.084718591 | CFAP58 |
| 26 | 25,275,000 | 25,425,000 | 338 | 576 | 0.526615504 | CFAP58 |
| 26 | 25,350,000 | 25,500,000 | 339 | 783 | 0.528413907 | |
| 26 | 25,425,000 | 25,575,000 | 340 | 748 | -0.975679908 | |
| 26 | 25,500,000 | 25,650,000 | 341 | 828 | -0.230173709 | |
| 26 | 25,575,000 | 25,725,000 | 342 | 960 | 0.509610634 | ENSBTAG00000010522 |
| 26 | 25,650,000 | 25,800,000 | 343 | 766 | 0.136739606 | ENSBTAG00000010522,ENSBTAG00000046727 |
| 26 | 25,725,000 | 25,875,000 | 344 | 643 | -0.365588029 | ECHS1,FUOM,MTG1,PAOX,SPRN,ENSBTAG00000010522,ENSBTAG00000046727 |
| 26 | 25,800,000 | 25,950,000 | 345 | 739 | 0.42855574 | CALY,ECHS1,FUOM,MTG1,PAOX,PRAP1,SPRN,TUBGCP2,ZNF511,ENSBTAG00000046499 |
| 26 | 25,875,000 | 26,025,000 | 346 | 867 | 0.756519463 | ADAM8,CALY,FUOM,PRAP1,TUBGCP2,UTF1,ZNF511,ENSBTAG00000046499 |
| 26 | 25,950,000 | 26,100,000 | 347 | 833 | 0.747624667 | ADAM8,TUBGCP2,UTF1 |
| 26 | 26,025,000 | 26,175,000 | 348 | 656 | 0.831698446 | |
| 26 | 26,100,000 | 26,250,000 | 349 | 542 | 0.286152995 | |
| 26 | 26,175,000 | 26,325,000 | 350 | 624 | -0.472736167 | SORCS3 |
| 26 | 26,250,000 | 26,400,000 | 351 | 880 | 0.064619332 | SORCS3 |
| 26 | 26,325,000 | 26,475,000 | 352 | 1000 | -0.137811378 | SORCS3 |
| 26 | 26,400,000 | 26,550,000 | 353 | 647 | -0.774563292 | |
| 26 | 26,475,000 | 26,625,000 | 354 | 404 | -0.663814872 | |
| 26 | 26,550,000 | 26,700,000 | 355 | 586 | -1.778625679 | |
| 26 | 26,625,000 | 26,775,000 | 356 | 838 | -1.281836421 | |
| 26 | 26,700,000 | 26,850,000 | 357 | 644 | -0.230311705 | |
| 26 | 26,775,000 | 26,925,000 | 358 | 320 | -0.33397343 | |
| 26 | 26,850,000 | 27,000,000 | 359 | 445 | -1.798594614 | |
| 26 | 26,925,000 | 27,075,000 | 360 | 664 | -1.340170113 | |
| 26 | 27,000,000 | 27,150,000 | 361 | 878 | -0.696143287 | |
| 26 | 27,075,000 | 27,225,000 | 362 | 920 | -1.891990906 | |
| 26 | 27,150,000 | 27,300,000 | 363 | 742 | -3.042608333 | |
| 26 | 27,225,000 | 27,375,000 | 364 | 877 | -1.957419757 | |
| 26 | 27,300,000 | 27,450,000 | 365 | 707 | -0.472244289 | |
| 26 | 27,375,000 | 27,525,000 | 366 | 533 | 0.199400372 | |
| 26 | 27,450,000 | 27,600,000 | 367 | 738 | -1.117819226 | |
| 26 | 27,525,000 | 27,675,000 | 368 | 581 | -1.816657079 | |
| 26 | 27,600,000 | 27,750,000 | 369 | 703 | -0.007829137 | |
| 26 | 27,675,000 | 27,825,000 | 370 | 1010 | 0.790589338 | SORCS1 |
| 26 | 27,750,000 | 27,900,000 | 371 | 1141 | 0.835660053 | SORCS1 |
| 26 | 27,825,000 | 27,975,000 | 372 | 1158 | 0.500957501 | SORCS1 |
| 26 | 27,900,000 | 28,050,000 | 373 | 1019 | 0.139825077 | SORCS1 |
| 26 | 27,975,000 | 28,125,000 | 374 | 608 | -0.137988758 | SORCS1 |
| 26 | 28,050,000 | 28,200,000 | 375 | 675 | -0.721298613 | SORCS1 |
| 26 | 28,125,000 | 28,275,000 | 376 | 872 | -0.360094861 | SORCS1 |
| 26 | 28,200,000 | 28,350,000 | 377 | 859 | -0.393569736 | SORCS1 |
| 26 | 28,275,000 | 28,425,000 | 378 | 790 | -0.258151227 | SORCS1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 26 | 28,350,000 | 28,500,000 | 379 | 508 | 0.293647871 | SORCS1 |
| 26 | 28,425,000 | 28,575,000 | 380 | 761 | 0.846186214 | |
| 26 | 28,500,000 | 28,650,000 | 381 | 960 | 0.680818328 | |
| 26 | 28,575,000 | 28,725,000 | 382 | 746 | -0.110439661 | |
| 26 | 28,650,000 | 28,800,000 | 383 | 960 | 0.121319309 | |
| 26 | 28,725,000 | 28,875,000 | 384 | 1069 | -0.025621155 | |
| 26 | 28,800,000 | 28,950,000 | 385 | 551 | -0.705525252 | |
| 26 | 28,875,000 | 29,025,000 | 386 | 184 | 0.176417249 | |
| 26 | 28,950,000 | 29,100,000 | 387 | 169 | -0.567828493 | |
| 26 | 29,025,000 | 29,175,000 | 388 | 542 | -0.105087627 | |
| 26 | 29,100,000 | 29,250,000 | 389 | 820 | 0.488567535 | |
| 26 | 29,175,000 | 29,325,000 | 390 | 1047 | 0.632837726 | |
| 26 | 29,250,000 | 29,400,000 | 391 | 1099 | 0.745387256 | |
| 26 | 29,325,000 | 29,475,000 | 392 | 1055 | 1.062990898 | |
| 26 | 29,400,000 | 29,550,000 | 393 | 1095 | 0.928138379 | |
| 26 | 29,475,000 | 29,625,000 | 394 | 887 | 0.482286378 | |
| 26 | 29,550,000 | 29,700,000 | 395 | 858 | 0.441428421 | |
| 26 | 29,625,000 | 29,775,000 | 396 | 798 | 0.792353743 | |
| 26 | 29,700,000 | 29,850,000 | 397 | 751 | 0.842007814 | |
| 26 | 29,775,000 | 29,925,000 | 398 | 721 | 0.301110623 | |
| 26 | 29,850,000 | 30,000,000 | 399 | 929 | -0.455681186 | |
| 26 | 29,925,000 | 30,075,000 | 400 | 1241 | 0.302063276 | |
| 26 | 30,000,000 | 30,150,000 | 401 | 1191 | 0.781569186 | |
| 26 | 30,075,000 | 30,225,000 | 402 | 946 | 0.754237917 | |
| 26 | 30,150,000 | 30,300,000 | 403 | 912 | -0.259107468 | |
| 26 | 30,225,000 | 30,375,000 | 404 | 972 | -0.958861294 | |
| 26 | 30,300,000 | 30,450,000 | 405 | 945 | 0.384125429 | |
| 26 | 30,375,000 | 30,525,000 | 406 | 978 | 0.91994999 | |
| 26 | 30,450,000 | 30,600,000 | 407 | 796 | 0.477938886 | |
| 26 | 30,525,000 | 30,675,000 | 408 | 715 | -0.11299184 | |
| 26 | 30,600,000 | 30,750,000 | 409 | 903 | 0.359512464 | XPNPEP1 |
| 26 | 30,675,000 | 30,825,000 | 410 | 771 | 0.601837337 | XPNPEP1 |
| 26 | 30,750,000 | 30,900,000 | 411 | 569 | -0.149797172 | ADD3 |
| 26 | 30,825,000 | 30,975,000 | 412 | 634 | -1.013445691 | ADD3 |
| 26 | 30,900,000 | 31,050,000 | 413 | 555 | -0.985996422 | ADD3,MXI1 |
| 26 | 30,975,000 | 31,125,000 | 414 | 351 | -0.858089818 | MXI1 |
| 26 | 31,050,000 | 31,200,000 | 415 | 346 | -1.2955324 | MXI1,SMNDC1 |
| 26 | 31,125,000 | 31,275,000 | 416 | 535 | -1.136686129 | MXI1,SMNDC1 |
| 26 | 31,200,000 | 31,350,000 | 417 | 603 | -0.969165548 | DUSP5 |
| 26 | 31,275,000 | 31,425,000 | 418 | 469 | -1.377118161 | DUSP5,SMC3 |
| 26 | 31,350,000 | 31,500,000 | 419 | 356 | -1.05524183 | RBM20,SMC3 |
| 26 | 31,425,000 | 31,575,000 | 420 | 577 | -0.034175168 | RBM20,SMC3 |
| 26 | 31,500,000 | 31,650,000 | 421 | 819 | -0.283612712 | RBM20,ENSBTAG00000047270 |
| 26 | 31,575,000 | 31,725,000 | 422 | 643 | -0.288055351 | PDCD4,RBM20,ENSBTAG00000047270 |
| 26 | 31,650,000 | 31,800,000 | 423 | 356 | -0.112740104 | PDCD4,RBM20,SHOC2,ENSBTAG00000046362 |
| 26 | 31,725,000 | 31,875,000 | 424 | 274 | 0.229496392 | PDCD4,SHOC2,ENSBTAG00000046362 |
| 26 | 31,800,000 | 31,950,000 | 425 | 333 | -0.008636936 | SHOC2 |
| 26 | 31,875,000 | 32,025,000 | 426 | 389 | 0.363921691 | |
| 26 | 31,950,000 | 32,100,000 | 427 | 695 | 0.059089494 | |
| 26 | 32,025,000 | 32,175,000 | 428 | 1182 | 0.437670808 | |
| 26 | 32,100,000 | 32,250,000 | 429 | 888 | 0.680749713 | |
| 26 | 32,175,000 | 32,325,000 | 430 | 487 | -0.690477646 | |
| 26 | 32,250,000 | 32,400,000 | 431 | 702 | -1.261139956 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 26 | 32,325,000 | 32,475,000 | 432 | 864 | -1.139958362 | |
| 26 | 32,400,000 | 32,550,000 | 433 | 775 | -1.008948304 | |
| 26 | 32,475,000 | 32,625,000 | 434 | 798 | -0.050995273 | |
| 26 | 32,550,000 | 32,700,000 | 435 | 767 | 0.464495776 | |
| 26 | 32,625,000 | 32,775,000 | 436 | 785 | 0.38974289 | |
| 26 | 32,700,000 | 32,850,000 | 437 | 880 | 0.132290103 | |
| 26 | 32,775,000 | 32,925,000 | 438 | 923 | -0.346841996 | |
| 26 | 32,850,000 | 33,000,000 | 439 | 834 | -0.134714607 | GPAM |
| 26 | 32,925,000 | 33,075,000 | 440 | 616 | 0.605466708 | GPAM |
| 26 | 33,000,000 | 33,150,000 | 441 | 672 | -0.108769549 | GPAM,TECTB |
| 26 | 33,075,000 | 33,225,000 | 442 | 764 | 0.390015619 | ACSL5,TECTB |
| 26 | 33,150,000 | 33,300,000 | 443 | 824 | 0.944461203 | ACSL5,VTI1A,ZDHHC6 |
| 26 | 33,225,000 | 33,375,000 | 444 | 722 | 0.561242479 | ACSL5,VTI1A,ZDHHC6 |
| 26 | 33,300,000 | 33,450,000 | 445 | 690 | 0.055435619 | VTI1A |
| 26 | 33,375,000 | 33,525,000 | 446 | 702 | -2.558384666 | |
| 26 | 33,450,000 | 33,600,000 | 447 | 500 | -4.227499243 | |
| 26 | 33,525,000 | 33,675,000 | 448 | 495 | -0.584816108 | |
| 26 | 33,600,000 | 33,750,000 | 449 | 897 | 0.338583858 | |
| 26 | 33,675,000 | 33,825,000 | 450 | 920 | 0.176747586 | TCFL2 |
| 26 | 33,750,000 | 33,900,000 | 451 | 673 | 0.491428045 | TCFL2 |
| 26 | 33,825,000 | 33,975,000 | 452 | 770 | -0.094697234 | TCFL2 |
| 26 | 33,900,000 | 34,050,000 | 453 | 816 | -0.619761664 | TCFL2 |
| 26 | 33,975,000 | 34,125,000 | 454 | 753 | -2.037944456 | |
| 26 | 34,050,000 | 34,200,000 | 455 | 596 | -2.656260117 | |
| 26 | 34,125,000 | 34,275,000 | 456 | 564 | -0.84548704 | |
| 26 | 34,200,000 | 34,350,000 | 457 | 887 | 0.375724912 | HABP2,NRAP |
| 26 | 34,275,000 | 34,425,000 | 458 | 978 | 0.699493739 | HABP2,NRAP |
| 26 | 34,350,000 | 34,500,000 | 459 | 753 | 0.514662484 | CASP7,NRAP |
| 26 | 34,425,000 | 34,575,000 | 460 | 460 | 0.625303832 | CASP7,DCLRE1A,PLEKHS1 |
| 26 | 34,500,000 | 34,650,000 | 461 | 306 | 0.702004635 | DCLRE1A,NHLRC2,PLEKHS1 |
| 26 | 34,575,000 | 34,725,000 | 462 | 514 | 0.340166696 | DCLRE1A,NHLRC2 |
| 26 | 34,650,000 | 34,800,000 | 463 | 525 | -0.056990341 | |
| 26 | 34,725,000 | 34,875,000 | 464 | 365 | 0.227738871 | ADRB1 |
| 26 | 34,800,000 | 34,950,000 | 465 | 289 | 0.064787397 | ADRB1,CCDC186,TDRD1 |
| 26 | 34,875,000 | 35,025,000 | 466 | 484 | -1.507786753 | CCDC186,TDRD1,VWA2 |
| 26 | 34,950,000 | 35,100,000 | 467 | 675 | -0.841577085 | AFAP1L2,TDRD1,VWA2 |
| 26 | 35,025,000 | 35,175,000 | 468 | 529 | 0.180882287 | AFAP1L2,VWA2 |
| 26 | 35,100,000 | 35,250,000 | 469 | 497 | -0.422348953 | ABLIM1,AFAP1L2 |
| 26 | 35,175,000 | 35,325,000 | 470 | 708 | -0.625402691 | ABLIM1 |
| 26 | 35,250,000 | 35,400,000 | 471 | 938 | -0.266843131 | ABLIM1 |
| 26 | 35,325,000 | 35,475,000 | 472 | 943 | 0.384447609 | ABLIM1,ENSBTAG00000013820 |
| 26 | 35,400,000 | 35,550,000 | 473 | 814 | 0.749301215 | ENSBTAG00000013820 |
| 26 | 35,475,000 | 35,625,000 | 474 | 836 | -0.120020188 | FAM160B1 |
| 26 | 35,550,000 | 35,700,000 | 475 | 934 | -0.592081481 | FAM160B1,TRUB1 |
| 26 | 35,625,000 | 35,775,000 | 476 | 1011 | -0.212002346 | TRUB1 |
| 26 | 35,700,000 | 35,850,000 | 477 | 946 | -0.026204566 | TRUB1 |
| 26 | 35,775,000 | 35,925,000 | 478 | 674 | 0.275999493 | ATRNL1 |
| 26 | 35,850,000 | 36,000,000 | 479 | 493 | 0.592513769 | ATRNL1 |
| 26 | 35,925,000 | 36,075,000 | 480 | 825 | 0.977555791 | ATRNL1 |
| 26 | 36,000,000 | 36,150,000 | 481 | 876 | 0.876888695 | ATRNL1 |
| 26 | 36,075,000 | 36,225,000 | 482 | 524 | -1.320904152 | ATRNL1 |
| 26 | 36,150,000 | 36,300,000 | 483 | 490 | -2.023851503 | ATRNL1 |
| 26 | 36,225,000 | 36,375,000 | 484 | 631 | -1.434759396 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 26 | 36,300,000 | 36,450,000 | 485 | 682 | -1.619552905 | |
| 26 | 36,375,000 | 36,525,000 | 486 | 634 | -2.859788116 | |
| 26 | 36,450,000 | 36,600,000 | 487 | 553 | -1.808439647 | |
| 26 | 36,525,000 | 36,675,000 | 488 | 693 | 0.348887848 | |
| 26 | 36,600,000 | 36,750,000 | 489 | 1029 | -0.452064895 | |
| 26 | 36,675,000 | 36,825,000 | 490 | 1048 | -0.407298674 | GFRA1 |
| 26 | 36,750,000 | 36,900,000 | 491 | 1079 | 0.848612758 | GFRA1 |
| 26 | 36,825,000 | 36,975,000 | 492 | 945 | 0.857095815 | GFRA1 |
| 26 | 36,900,000 | 37,050,000 | 493 | 707 | 0.012643938 | GFRA1 |
| 26 | 36,975,000 | 37,125,000 | 494 | 618 | 0.139928759 | CCDC172,GFRA1 |
| 26 | 37,050,000 | 37,200,000 | 495 | 562 | -0.945171365 | CCDC172,PNLIPRP3 |
| 26 | 37,125,000 | 37,275,000 | 496 | 566 | -0.842335095 | CCDC172,PNLIPRP3 |
| 26 | 37,200,000 | 37,350,000 | 497 | 582 | -0.373704784 | PNLIP,PNLIPRP2,PNLIPRP3 |
| 26 | 37,275,000 | 37,425,000 | 498 | 659 | 0.438038052 | C10orf82,HSPA12A,PNLIP,PNLIPRP2 |
| 26 | 37,350,000 | 37,500,000 | 499 | 617 | 0.885272877 | C10orf82,HSPA12A,PNLIPRP2 |
| 26 | 37,425,000 | 37,575,000 | 500 | 413 | 0.862012665 | ENO4,HSPA12A |
| 26 | 37,500,000 | 37,650,000 | 501 | 359 | 0.761397155 | ENO4,KIAA1598 |
| 26 | 37,575,000 | 37,725,000 | 502 | 478 | 0.35327336 | ENO4,KIAA1598 |
| 26 | 37,650,000 | 37,800,000 | 503 | 455 | -0.40650534 | KIAA1598,VAX1 |
| 26 | 37,725,000 | 37,875,000 | 504 | 688 | 0.304470223 | KCNK18,VAX1 |
| 26 | 37,800,000 | 37,950,000 | 505 | 1194 | 0.364889881 | KCNK18,PDZD8,SLC18A2,VAX1 |
| 26 | 37,875,000 | 38,025,000 | 506 | 910 | -0.434897154 | PDZD8,SLC18A2 |
| 26 | 37,950,000 | 38,100,000 | 507 | 690 | -1.672784593 | PDZD8 |
| 26 | 38,025,000 | 38,175,000 | 508 | 790 | -1.797109172 | EMX2 |
| 26 | 38,100,000 | 38,250,000 | 509 | 563 | -2.140381756 | EMX2 |
| 26 | 38,175,000 | 38,325,000 | 510 | 486 | -0.457323733 | |
| 26 | 38,250,000 | 38,400,000 | 511 | 680 | 0.310514377 | |
| 26 | 38,325,000 | 38,475,000 | 512 | 745 | 0.322953448 | |
| 26 | 38,400,000 | 38,550,000 | 513 | 433 | 0.532836282 | |
| 26 | 38,475,000 | 38,625,000 | 514 | 208 | 0.323441285 | RAB11FIP2 |
| 26 | 38,550,000 | 38,700,000 | 515 | 212 | -1.622769845 | RAB11FIP2 |
| 26 | 38,625,000 | 38,775,000 | 516 | 438 | -2.004640867 | RAB11FIP2 |
| 26 | 38,700,000 | 38,850,000 | 517 | 614 | -0.810404915 | |
| 26 | 38,775,000 | 38,925,000 | 518 | 640 | 0.754879109 | FAM204A |
| 26 | 38,850,000 | 39,000,000 | 519 | 622 | -0.05403162 | FAM204A |
| 26 | 38,925,000 | 39,075,000 | 520 | 647 | -0.638119423 | FAM204A |
| 26 | 39,000,000 | 39,150,000 | 521 | 653 | -0.704810158 | |
| 26 | 39,075,000 | 39,225,000 | 522 | 511 | -0.980689143 | PRLHR |
| 26 | 39,150,000 | 39,300,000 | 523 | 343 | -0.490930594 | CACUL1,PRLHR |
| 26 | 39,225,000 | 39,375,000 | 524 | 375 | -1.667281072 | CACUL1 |
| 26 | 39,300,000 | 39,450,000 | 525 | 546 | -0.303213878 | CACUL1 |
| 26 | 39,375,000 | 39,525,000 | 526 | 625 | 0.593498691 | |
| 26 | 39,450,000 | 39,600,000 | 527 | 501 | 0.204024865 | EIF3A |
| 26 | 39,525,000 | 39,675,000 | 528 | 394 | -0.51211376 | EIF3A,FAM45A,PRDX3,SFXN4 |
| 26 | 39,600,000 | 39,750,000 | 529 | 385 | -0.393751211 | EIF3A,FAM45A,GRK5,PRDX3,SFXN4 |
| 26 | 39,675,000 | 39,825,000 | 530 | 524 | -0.045366151 | GRK5,PRDX3 |
| 26 | 39,750,000 | 39,900,000 | 531 | 541 | -0.44274486 | GRK5 |
| 26 | 39,825,000 | 39,975,000 | 532 | 350 | -1.821273737 | GRK5 |
| 26 | 39,900,000 | 40,050,000 | 533 | 432 | -2.289136695 | GRK5,RGS10,TIAL1 |
| 26 | 39,975,000 | 40,125,000 | 534 | 578 | -0.307309253 | BAG3,RGS10,TIAL1 |
| 26 | 40,050,000 | 40,200,000 | 535 | 446 | 0.619016496 | BAG3,TIAL1 |
| 26 | 40,125,000 | 40,275,000 | 536 | 258 | 0.367938728 | BAG3 |
| 26 | 40,200,000 | 40,350,000 | 537 | 314 | 0.293452209 | MCMBP,SEC23IP,ENSBTAG00000021801 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 40,275,000 | 40,425,000 | 538 | 597 | 0.221151006 | MCMBP,SEC23IP,ENSBTAG00000021801 |
| 26 | 40,350,000 | 40,500,000 | 539 | 670 | -1.483208279 | SEC23IP |
| 26 | 40,425,000 | 40,575,000 | 540 | 825 | -0.124213812 | |
| 26 | 40,500,000 | 40,650,000 | 541 | 1084 | 0.943826438 | |
| 26 | 40,575,000 | 40,725,000 | 542 | 1505 | -0.013368248 | |
| 26 | 40,650,000 | 40,800,000 | 543 | 1271 | -0.417706343 | |
| 26 | 40,725,000 | 40,875,000 | 544 | 538 | 0.442556501 | |
| 26 | 40,800,000 | 40,950,000 | 545 | 522 | 0.216152261 | PPAPDC1A |
| 26 | 40,875,000 | 41,025,000 | 546 | 500 | -0.421865961 | PPAPDC1A |
| 26 | 40,950,000 | 41,100,000 | 547 | 570 | -0.164195755 | PPAPDC1A |
| 26 | 41,025,000 | 41,175,000 | 548 | 706 | 0.014665781 | PPAPDC1A |
| 26 | 41,100,000 | 41,250,000 | 549 | 713 | -0.483162403 | BRWD2 |
| 26 | 41,175,000 | 41,325,000 | 550 | 586 | -0.683698663 | BRWD2 |
| 26 | 41,250,000 | 41,400,000 | 551 | 404 | -0.639982994 | BRWD2 |
| 26 | 41,325,000 | 41,475,000 | 552 | 404 | -0.701979712 | |
| 26 | 41,400,000 | 41,550,000 | 553 | 401 | -2.327057559 | |
| 26 | 41,475,000 | 41,625,000 | 554 | 333 | -1.232904651 | |
| 26 | 41,550,000 | 41,700,000 | 555 | 533 | 1.050467498 | |
| 26 | 41,625,000 | 41,775,000 | 556 | 911 | 0.569415564 | |
| 26 | 41,700,000 | 41,850,000 | 557 | 907 | 0.398649225 | FGFR2 |
| 26 | 41,775,000 | 41,925,000 | 558 | 491 | 0.445572437 | FGFR2 |
| 26 | 41,850,000 | 42,000,000 | 559 | 234 | 0.533577579 | FGFR2 |
| 26 | 41,925,000 | 42,075,000 | 560 | 219 | 0.555391307 | ATE1,FGFR2 |
| 26 | 42,000,000 | 42,150,000 | 561 | 245 | -1.644331695 | ATE1 |
| 26 | 42,075,000 | 42,225,000 | 562 | 369 | -3.590802059 | ATE1,NSMCE4A,ENSBTAG00000047642 |
| 26 | 42,150,000 | 42,300,000 | 563 | 374 | -2.471496317 | ATE1,NSMCE4A,ENSBTAG00000047642 |
| 26 | 42,225,000 | 42,375,000 | 564 | 386 | 0.18071789 | NSMCE4A,TACC2 |
| 26 | 42,300,000 | 42,450,000 | 565 | 756 | 0.617926733 | TACC2 |
| 26 | 42,375,000 | 42,525,000 | 566 | 705 | 0.532837776 | BTBD16,TACC2 |
| 26 | 42,450,000 | 42,600,000 | 567 | 568 | -0.469453798 | BTBD16,PLEKHA1,TACC2 |
| 26 | 42,525,000 | 42,675,000 | 568 | 779 | -0.149658841 | BTBD16,HTRA1,PLEKHA1 |
| 26 | 42,600,000 | 42,750,000 | 569 | 1291 | 0.766716759 | HTRA1,PLEKHA1 |
| 26 | 42,675,000 | 42,825,000 | 570 | 1411 | 0.690307816 | DMBT1,HTRA1,ENSBTAG00000038684 |
| 26 | 42,750,000 | 42,900,000 | 571 | 1366 | 0.040492018 | C26H10orf120,DMBT1,SPADH1,SPADH2,ENSBTAG00000038684 |
| 26 | 42,825,000 | 42,975,000 | 572 | 1885 | 0.317290913 | C26H10orf120,SPADH1,SPADH2,ENSBTAG00000038684,ENSBTAG00000039755 |
| 26 | 42,900,000 | 43,050,000 | 573 | 1872 | 0.358340356 | ENSBTAG00000023845,ENSBTAG00000039755 |
| 26 | 42,975,000 | 43,125,000 | 574 | 1194 | -0.459924745 | IKZF5,PSTK,ENSBTAG00000023845,ENSBTAG00000023846,ENSBTAG00000039755 |
| 26 | 43,050,000 | 43,200,000 | 575 | 797 | -0.274287148 | ACADSB,IKZF5,PSTK,ENSBTAG00000023845,ENSBTAG000023846,ENSBTAG00000048256 |
| 26 | 43,125,000 | 43,275,000 | 576 | 790 | 0.796189215 | ACADSB,HMX2,HMX3,IKZF5,ENSBTAG00000048256 |
| 26 | 43,200,000 | 43,350,000 | 577 | 794 | 1.185437228 | BUB3,HMX2,HMX3 |
| 26 | 43,275,000 | 43,425,000 | 578 | 1006 | 0.338789492 | BUB3 |
| 26 | 43,350,000 | 43,500,000 | 579 | 920 | -0.891378496 | |
| 26 | 43,425,000 | 43,575,000 | 580 | 487 | -0.655188106 | |
| 26 | 43,500,000 | 43,650,000 | 581 | 376 | 0.96607704 | |
| 26 | 43,575,000 | 43,725,000 | 582 | 648 | 1.159258444 | |
| 26 | 43,650,000 | 43,800,000 | 583 | 812 | -0.240616288 | GPR26 |
| 26 | 43,725,000 | 43,875,000 | 584 | 856 | -2.021582336 | CPXM2,GPR26 |
| 26 | 43,800,000 | 43,950,000 | 585 | 840 | -0.123399492 | CPXM2 |
| 26 | 43,875,000 | 44,025,000 | 586 | 554 | 0.5144374 | CPXM2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 26 | 43,950,000 | 44,100,000 | 587 | 592 | 0.004989807 | CHST15,CPXM2 |
| 26 | 44,025,000 | 44,175,000 | 588 | 775 | -0.204571992 | CHST15 |
| 26 | 44,100,000 | 44,250,000 | 589 | 1049 | 0.694638636 | |
| 26 | 44,175,000 | 44,325,000 | 590 | 1486 | 0.909701727 | |
| 26 | 44,250,000 | 44,400,000 | 591 | 1300 | 0.138653758 | OAT |
| 26 | 44,325,000 | 44,475,000 | 592 | 1196 | -0.490321703 | LHPP,NKX1-2,OAT |
| 26 | 44,400,000 | 44,550,000 | 593 | 1400 | 0.14873597 | LHPP,NKX1-2 |
| 26 | 44,475,000 | 44,625,000 | 594 | 1142 | 0.350002912 | FAM53B,LHPP |
| 26 | 44,550,000 | 44,700,000 | 595 | 675 | 0.534656868 | FAM53B,LHPP |
| 26 | 44,625,000 | 44,775,000 | 596 | 438 | 0.247461599 | FAM175B,FAM53B |
| 26 | 44,700,000 | 44,850,000 | 597 | 303 | 0.09169495 | FAM175B,ZRANB1 |
| 26 | 44,775,000 | 44,925,000 | 598 | 272 | -0.242849001 | CTBP2,ZRANB1 |
| 26 | 44,850,000 | 45,000,000 | 599 | 446 | -0.261419927 | CTBP2,ZRANB1 |
| 26 | 44,925,000 | 45,075,000 | 600 | 555 | 0.359506856 | CTBP2 |
| 26 | 45,000,000 | 45,150,000 | 601 | 489 | 0.818744135 | |
| 26 | 45,075,000 | 45,225,000 | 602 | 403 | 0.839939232 | |
| 26 | 45,150,000 | 45,300,000 | 603 | 382 | 0.27845169 | |
| 26 | 45,225,000 | 45,375,000 | 604 | 544 | 0.131791686 | |
| 26 | 45,300,000 | 45,450,000 | 605 | 607 | 0.311376424 | |
| 26 | 45,375,000 | 45,525,000 | 606 | 489 | 0.446093277 | |
| 26 | 45,450,000 | 45,600,000 | 607 | 618 | 0.702830394 | EDRF1,TEX36 |
| 26 | 45,525,000 | 45,675,000 | 608 | 994 | 0.423577082 | BCCIP,EDRF1,TEX36,UROS |
| 26 | 45,600,000 | 45,750,000 | 609 | 1613 | 0.829243956 | BCCIP,DHX32,EDRF1,FANK1,UROS |
| 26 | 45,675,000 | 45,825,000 | 610 | 1400 | 1.101674688 | BCCIP,DHX32,FANK1 |
| 26 | 45,750,000 | 45,900,000 | 611 | 958 | 0.702308949 | ADAM12,FANK1 |
| 26 | 45,825,000 | 45,975,000 | 612 | 806 | 0.482187038 | ADAM12,FANK1 |
| 26 | 45,900,000 | 46,050,000 | 613 | 892 | 1.01416817 | ADAM12 |
| 26 | 45,975,000 | 46,125,000 | 614 | 959 | 0.718999626 | ADAM12 |
| 26 | 46,050,000 | 46,200,000 | 615 | 606 | -1.731690636 | ADAM12 |
| 26 | 46,125,000 | 46,275,000 | 616 | 575 | -2.247425607 | ADAM12,C10orf90 |
| 26 | 46,200,000 | 46,350,000 | 617 | 738 | -0.167849093 | ADAM12,C10orf90 |
| 26 | 46,275,000 | 46,425,000 | 618 | 1048 | 0.542036395 | C10orf90 |
| 26 | 46,350,000 | 46,500,000 | 619 | 897 | -0.158067351 | C10orf90 |
| 26 | 46,425,000 | 46,575,000 | 620 | 1043 | -1.965277445 | |
| 26 | 46,500,000 | 46,650,000 | 621 | 1206 | -1.891601692 | |
| 26 | 46,575,000 | 46,725,000 | 622 | 898 | -2.024916588 | |
| 26 | 46,650,000 | 46,800,000 | 623 | 715 | -1.361378804 | DOCK1 |
| 26 | 46,725,000 | 46,875,000 | 624 | 854 | 0.382374716 | DOCK1 |
| 26 | 46,800,000 | 46,950,000 | 625 | 1040 | -0.897382283 | DOCK1 |
| 26 | 46,875,000 | 47,025,000 | 626 | 810 | -1.138742296 | DOCK1,FAM196A |
| 26 | 46,950,000 | 47,100,000 | 627 | 801 | 0.820088019 | DOCK1,FAM196A |
| 26 | 47,025,000 | 47,175,000 | 628 | 946 | 0.152509597 | DOCK1 |
| 26 | 47,100,000 | 47,250,000 | 629 | 976 | -0.770849087 | DOCK1 |
| 26 | 47,175,000 | 47,325,000 | 630 | 907 | -0.41154188 | DOCK1 |
| 26 | 47,250,000 | 47,400,000 | 631 | 978 | -0.452366007 | DOCK1 |
| 26 | 47,325,000 | 47,475,000 | 632 | 954 | -0.514682218 | |
| 26 | 47,400,000 | 47,550,000 | 633 | 759 | 0.05956422 | FOXI2 |
| 26 | 47,475,000 | 47,625,000 | 634 | 977 | 0.293173602 | FOXI2 |
| 26 | 47,550,000 | 47,700,000 | 635 | 1412 | 0.641755054 | CLRN3 |
| 26 | 47,625,000 | 47,775,000 | 636 | 1335 | 0.889889263 | CLRN3 |
| 26 | 47,700,000 | 47,850,000 | 637 | 865 | 0.556737749 | PTPRE |
| 26 | 47,775,000 | 47,925,000 | 638 | 724 | -0.555682008 | MKI67,PTPRE |
| 26 | 47,850,000 | 48,000,000 | 639 | 738 | -1.020673976 | MKI67 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 47,925,000 | 48,075,000 | 640 | 520 | 0.090913782 | |
| 26 | 48,000,000 | 48,150,000 | 641 | 444 | 0.36279777 | |
| 26 | 48,075,000 | 48,225,000 | 642 | 760 | -1.681872162 | |
| 26 | 48,150,000 | 48,300,000 | 643 | 710 | -1.698421412 | |
| 26 | 48,225,000 | 48,375,000 | 644 | 730 | 0.329315722 | |
| 26 | 48,300,000 | 48,450,000 | 645 | 1091 | 0.800091491 | |
| 26 | 48,375,000 | 48,525,000 | 646 | 935 | 0.894752562 | |
| 26 | 48,450,000 | 48,600,000 | 647 | 525 | 0.793464349 | |
| 26 | 48,525,000 | 48,675,000 | 648 | 352 | 0.475742879 | |
| 26 | 48,600,000 | 48,750,000 | 649 | 429 | 0.397307438 | |
| 26 | 48,675,000 | 48,825,000 | 650 | 698 | 0.577084439 | |
| 26 | 48,750,000 | 48,900,000 | 651 | 754 | 0.579563877 | |
| 26 | 48,825,000 | 48,975,000 | 652 | 571 | 0.863518643 | |
| 26 | 48,900,000 | 49,050,000 | 653 | 584 | 0.706375626 | |
| 26 | 48,975,000 | 49,125,000 | 654 | 586 | 0.58896516 | |
| 26 | 49,050,000 | 49,200,000 | 655 | 714 | 0.509484891 | |
| 26 | 49,125,000 | 49,275,000 | 656 | 661 | 0.463593087 | |
| 26 | 49,200,000 | 49,350,000 | 657 | 397 | 0.859697649 | |
| 26 | 49,275,000 | 49,425,000 | 658 | 422 | 0.606205336 | |
| 26 | 49,350,000 | 49,500,000 | 659 | 604 | 0.543055563 | |
| 26 | 49,425,000 | 49,575,000 | 660 | 527 | 0.55920731 | EBF3 |
| 26 | 49,500,000 | 49,650,000 | 661 | 261 | -0.706911566 | EBF3,ENSBTAG00000047164 |
| 26 | 49,575,000 | 49,725,000 | 662 | 422 | -2.398558449 | ENSBTAG00000047164 |
| 26 | 49,650,000 | 49,800,000 | 663 | 493 | -2.110055703 | GLRX3 |
| 26 | 49,725,000 | 49,875,000 | 664 | 684 | -1.908732514 | GLRX3 |
| 26 | 49,800,000 | 49,950,000 | 665 | 1026 | -1.401884297 | |
| 26 | 49,875,000 | 50,025,000 | 666 | 882 | -0.582239861 | |
| 26 | 49,950,000 | 50,100,000 | 667 | 730 | -1.692187165 | |
| 26 | 50,025,000 | 50,175,000 | 668 | 844 | -0.596018199 | |
| 26 | 50,100,000 | 50,250,000 | 669 | 989 | 0.409852258 | |
| 26 | 50,175,000 | 50,325,000 | 670 | 1080 | 0.124634134 | |
| 26 | 50,250,000 | 50,400,000 | 671 | 1528 | -0.59556874 | |
| 26 | 50,325,000 | 50,475,000 | 672 | 1456 | -0.408546123 | |
| 26 | 50,400,000 | 50,550,000 | 673 | 673 | 0.579348875 | SYCE1 |
| 26 | 50,475,000 | 50,625,000 | 674 | 500 | 0.293010166 | CYP2E1,SYCE1,ENSBTAG00000005267 |
| 26 | 50,550,000 | 50,700,000 | 675 | 737 | 0.284636979 | CYP2E1,ENSBTAG00000005267,ENSBTAG00000007248,ENSBTAG00000010461,ENSBTAG00000026185 |
| 26 | 50,625,000 | 50,775,000 | 676 | 773 | 0.404758281 | ENSBTAG00000007248,ENSBTAG00000010461,ENSBTAG0000026185 |
| 26 | 50,700,000 | 50,850,000 | 677 | 719 | -0.86684181 | KNDC1 |
| 26 | 50,775,000 | 50,925,000 | 678 | 677 | -1.153411412 | GPR123,KNDC1 |
| 26 | 50,850,000 | 51,000,000 | 679 | 917 | 0.439965919 | GPR123 |
| 26 | 50,925,000 | 51,075,000 | 680 | 934 | 0.31132369 | CFAP46 |
| 26 | 51,000,000 | 51,150,000 | 681 | 575 | 0.210922312 | CFAP46,INPP5A,ENSBTAG00000015651 |
| 26 | 51,075,000 | 51,225,000 | 682 | 601 | 0.955931077 | INPP5A,ENSBTAG00000015651 |
| 26 | 51,150,000 | 51,300,000 | 683 | 796 | 0.750823262 | INPP5A |
| 26 | 51,225,000 | 51,375,000 | 684 | 902 | -0.006099835 | BNIP3 |
| 26 | 51,300,000 | 51,450,000 | 685 | 970 | -0.421657869 | BNIP3 |
| 26 | 51,375,000 | 51,525,000 | 686 | 847 | -0.056904814 | DPYSL4,JAKMIP3 |
| 26 | 51,450,000 | 51,600,000 | 687 | 759 | 0.271914118 | DPYSL4,JAKMIP3,STK32C |
| 26 | 51,525,000 | 51,675,000 | 688 | 636 | -0.190437487 | DPYSL4,LRRC27,PWWP2B,STK32C |
| 26 | 51,600,000 | 51,681,464 | 689 | 253 | -0.745011128 | LRRC27,PWWP2B,STK32C |
| 27 | 0 | 150,000 | 1 | 758 | -2.545818662 | CLN8 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|------------------------|
| 27 | 75,000 | 225,000 | 2 | 1189 | -1.148684133 | ARHGEF10,CLN8 |
| 27 | 150,000 | 300,000 | 3 | 1228 | -0.383345343 | ARHGEF10,KBTBD11 |
| 27 | 225,000 | 375,000 | 4 | 942 | -0.535099114 | ARHGEF10,KBTBD11,MYOM2 |
| 27 | 300,000 | 450,000 | 5 | 1023 | 0.381847345 | MYOM2 |
| 27 | 375,000 | 525,000 | 6 | 1365 | 0.191190949 | MYOM2 |
| 27 | 450,000 | 600,000 | 7 | 1158 | -0.240523242 | |
| 27 | 525,000 | 675,000 | 8 | 980 | 0.425142411 | |
| 27 | 600,000 | 750,000 | 9 | 925 | 0.972886498 | |
| 27 | 675,000 | 825,000 | 10 | 1044 | -0.113250655 | |
| 27 | 750,000 | 900,000 | 11 | 1119 | 0.050051635 | |
| 27 | 825,000 | 975,000 | 12 | 854 | 0.690034351 | |
| 27 | 900,000 | 1,050,000 | 13 | 1203 | 0.899507044 | CSMD1 |
| 27 | 975,000 | 1,125,000 | 14 | 1575 | 0.508477649 | CSMD1 |
| 27 | 1,050,000 | 1,200,000 | 15 | 971 | -0.003345314 | CSMD1 |
| 27 | 1,125,000 | 1,275,000 | 16 | 655 | -0.516222167 | CSMD1 |
| 27 | 1,200,000 | 1,350,000 | 17 | 1272 | -2.347714424 | CSMD1 |
| 27 | 1,275,000 | 1,425,000 | 18 | 1310 | -2.669407697 | CSMD1 |
| 27 | 1,350,000 | 1,500,000 | 19 | 720 | -1.881768282 | CSMD1 |
| 27 | 1,425,000 | 1,575,000 | 20 | 936 | -2.197936442 | |
| 27 | 1,500,000 | 1,650,000 | 21 | 1627 | -0.790453635 | |
| 27 | 1,575,000 | 1,725,000 | 22 | 1595 | -0.145895876 | |
| 27 | 1,650,000 | 1,800,000 | 23 | 1246 | -0.428080205 | |
| 27 | 1,725,000 | 1,875,000 | 24 | 912 | 0.178695193 | |
| 27 | 1,800,000 | 1,950,000 | 25 | 826 | 0.49916453 | |
| 27 | 1,875,000 | 2,025,000 | 26 | 954 | 0.455845828 | |
| 27 | 1,950,000 | 2,100,000 | 27 | 1026 | 0.17499831 | |
| 27 | 2,025,000 | 2,175,000 | 28 | 1161 | -0.295050801 | |
| 27 | 2,100,000 | 2,250,000 | 29 | 758 | -0.489106668 | |
| 27 | 2,175,000 | 2,325,000 | 30 | 498 | 0.198524733 | |
| 27 | 2,250,000 | 2,400,000 | 31 | 549 | 0.692432156 | |
| 27 | 2,325,000 | 2,475,000 | 32 | 682 | 0.859747128 | |
| 27 | 2,400,000 | 2,550,000 | 33 | 1086 | 0.061697032 | |
| 27 | 2,475,000 | 2,625,000 | 34 | 1116 | -0.716050942 | |
| 27 | 2,550,000 | 2,700,000 | 35 | 1271 | -0.098044032 | |
| 27 | 2,625,000 | 2,775,000 | 36 | 1569 | 0.962547456 | |
| 27 | 2,700,000 | 2,850,000 | 37 | 1434 | 0.847829881 | |
| 27 | 2,775,000 | 2,925,000 | 38 | 1445 | 0.558434077 | |
| 27 | 2,850,000 | 3,000,000 | 39 | 1123 | 0.01982683 | |
| 27 | 2,925,000 | 3,075,000 | 40 | 842 | -1.368400476 | |
| 27 | 3,000,000 | 3,150,000 | 41 | 795 | -2.250178944 | |
| 27 | 3,075,000 | 3,225,000 | 42 | 753 | -2.005549976 | ENSBTAG00000035013 |
| 27 | 3,150,000 | 3,300,000 | 43 | 928 | -2.245017497 | ENSBTAG00000035013 |
| 27 | 3,225,000 | 3,375,000 | 44 | 985 | -1.300967973 | |
| 27 | 3,300,000 | 3,450,000 | 45 | 804 | -0.178971231 | |
| 27 | 3,375,000 | 3,525,000 | 46 | 832 | -0.530716805 | |
| 27 | 3,450,000 | 3,600,000 | 47 | 1297 | 0.512829163 | |
| 27 | 3,525,000 | 3,675,000 | 48 | 1455 | 1.270616841 | |
| 27 | 3,600,000 | 3,750,000 | 49 | 1309 | 0.578929521 | |
| 27 | 3,675,000 | 3,825,000 | 50 | 1091 | -0.130259694 | |
| 27 | 3,750,000 | 3,900,000 | 51 | 1235 | -0.100086874 | |
| 27 | 3,825,000 | 3,975,000 | 52 | 1116 | 0.399913188 | |
| 27 | 3,900,000 | 4,050,000 | 53 | 479 | 0.221359203 | |
| 27 | 3,975,000 | 4,125,000 | 54 | 322 | 0.057083517 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---|
| 27 | 4,050,000 | 4,200,000 | 55 | 341 | 0.400393211 | |
| 27 | 4,125,000 | 4,275,000 | 56 | 695 | 0.732128964 | |
| 27 | 4,200,000 | 4,350,000 | 57 | 1004 | 0.718369174 | MCPH1 |
| 27 | 4,275,000 | 4,425,000 | 58 | 613 | 0.615628752 | ANGPT2,MCPH1 |
| 27 | 4,350,000 | 4,500,000 | 59 | 331 | 0.882859964 | ANGPT2,MCPH1 |
| 27 | 4,425,000 | 4,575,000 | 60 | 565 | 1.248378816 | ANGPT2,MCPH1 |
| 27 | 4,500,000 | 4,650,000 | 61 | 596 | 1.295029447 | MCPH1 |
| 27 | 4,575,000 | 4,725,000 | 62 | 481 | 0.122520249 | AGPAT5 |
| 27 | 4,650,000 | 4,800,000 | 63 | 762 | 0.337231064 | AGPAT5,XKR5,ENSBTAG00000007477,ENSBTAG00000008519 |
| 27 | 4,725,000 | 4,875,000 | 64 | 826 | 0.385928446 | AGPAT5,XKR5,ENSBTAG00000007477,ENSBTAG00000008519 |
| 27 | 4,800,000 | 4,950,000 | 65 | 726 | 0.381872057 | DEFB300,SPAG11,TAP,ENSBTAG00000007477,ENSBTAG000008519 |
| 27 | 4,875,000 | 5,025,000 | 66 | 647 | 0.895493115 | DEFB300,SPAG11,TAP,ZNF705A,ENSBTAG00000007340 |
| 27 | 4,950,000 | 5,100,000 | 67 | 807 | 0.812981268 | ZNF705A,ENSBTAG00000007340 |
| 27 | 5,025,000 | 5,175,000 | 68 | 777 | 0.6773667 | LAP,ENSBTAG00000007340,ENSBTAG00000046937,ENSBTAG00000047421 |
| 27 | 5,100,000 | 5,250,000 | 69 | 401 | 0.412526826 | DEFB7,LAP,ENSBTAG00000039856,ENSBTAG00000046937,ENSBTAG00000047421,ENSBTAG00000047740 |
| 27 | 5,175,000 | 5,325,000 | 70 | 556 | 0.7032695 | DEFB7,ENSBTAG00000039856,ENSBTAG00000047740 |
| 27 | 5,250,000 | 5,400,000 | 71 | 987 | 0.790153067 | ENSBTAG00000023157,ENSBTAG00000047363 |
| 27 | 5,325,000 | 5,475,000 | 72 | 936 | 0.786528605 | DEFB,ENSBTAG00000023157,ENSBTAG00000047284,ENSBTAG00000047363 |
| 27 | 5,400,000 | 5,550,000 | 73 | 683 | 0.419743695 | DEFB,EBD,ENSBTAG00000047284 |
| 27 | 5,475,000 | 5,625,000 | 74 | 571 | 0.407775887 | DEFB5,EBD |
| 27 | 5,550,000 | 5,700,000 | 75 | 462 | 0.665446578 | DEFB5 |
| 27 | 5,625,000 | 5,775,000 | 76 | 699 | 0.551194627 | ENSBTAG00000010248 |
| 27 | 5,700,000 | 5,850,000 | 77 | 1025 | 0.563656994 | DEFB1,ENSBTAG00000010248,ENSBTAG00000046405 |
| 27 | 5,775,000 | 5,925,000 | 78 | 822 | 0.281147563 | DEFB1,ENSBTAG00000046405 |
| 27 | 5,850,000 | 6,000,000 | 79 | 1055 | -0.201507673 | |
| 27 | 5,925,000 | 6,075,000 | 80 | 1064 | -0.085515122 | ENSBTAG00000038504 |
| 27 | 6,000,000 | 6,150,000 | 81 | 269 | 0.221292274 | ENSBTAG00000038504 |
| 27 | 6,075,000 | 6,225,000 | 82 | 220 | 0.5302703 | DEFB405 |
| 27 | 6,150,000 | 6,300,000 | 83 | 560 | 0.360492868 | DEFB405,GPM6A |
| 27 | 6,225,000 | 6,375,000 | 84 | 541 | 0.048877461 | GPM6A |
| 27 | 6,300,000 | 6,450,000 | 85 | 448 | -0.46812106 | GPM6A |
| 27 | 6,375,000 | 6,525,000 | 86 | 774 | -0.328710341 | GPM6A,ENSBTAG00000046071 |
| 27 | 6,450,000 | 6,600,000 | 87 | 896 | -0.352182706 | ENSBTAG00000046071 |
| 27 | 6,525,000 | 6,675,000 | 88 | 1079 | 0.702928897 | SPATA4,WDR17 |
| 27 | 6,600,000 | 6,750,000 | 89 | 1388 | 0.927949042 | ASB5,SPATA4,WDR17 |
| 27 | 6,675,000 | 6,825,000 | 90 | 990 | 0.800887565 | ASB5,SPATA4,SPCS3 |
| 27 | 6,750,000 | 6,900,000 | 91 | 721 | 0.896442384 | SPCS3 |
| 27 | 6,825,000 | 6,975,000 | 92 | 930 | -0.652984105 | |
| 27 | 6,900,000 | 7,050,000 | 93 | 689 | -1.522475549 | VEGFC |
| 27 | 6,975,000 | 7,125,000 | 94 | 296 | 0.207665354 | VEGFC |
| 27 | 7,050,000 | 7,200,000 | 95 | 299 | 0.105225615 | VEGFC |
| 27 | 7,125,000 | 7,275,000 | 96 | 340 | -0.41504872 | |
| 27 | 7,200,000 | 7,350,000 | 97 | 429 | 0.088908552 | |
| 27 | 7,275,000 | 7,425,000 | 98 | 579 | 0.200801948 | |
| 27 | 7,350,000 | 7,500,000 | 99 | 628 | -0.086408392 | |
| 27 | 7,425,000 | 7,575,000 | 100 | 829 | -0.031742319 | NEIL3 |
| 27 | 7,500,000 | 7,650,000 | 101 | 1052 | -0.044397067 | NEIL3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------|
| 27 | 7,575,000 | 7,725,000 | 102 | 823 | -0.019325124 | AGA,NEIL3 |
| 27 | 7,650,000 | 7,800,000 | 103 | 759 | 0.527922405 | AGA |
| 27 | 7,725,000 | 7,875,000 | 104 | 751 | 0.669888156 | |
| 27 | 7,800,000 | 7,950,000 | 105 | 896 | 0.304015384 | |
| 27 | 7,875,000 | 8,025,000 | 106 | 1056 | 0.363457183 | |
| 27 | 7,950,000 | 8,100,000 | 107 | 877 | 0.176692023 | |
| 27 | 8,025,000 | 8,175,000 | 108 | 652 | -0.904658145 | |
| 27 | 8,100,000 | 8,250,000 | 109 | 776 | -0.641295273 | |
| 27 | 8,175,000 | 8,325,000 | 110 | 1106 | 0.47168416 | |
| 27 | 8,250,000 | 8,400,000 | 111 | 1025 | 0.971923212 | |
| 27 | 8,325,000 | 8,475,000 | 112 | 931 | 0.094510264 | |
| 27 | 8,400,000 | 8,550,000 | 113 | 777 | -0.950723173 | |
| 27 | 8,475,000 | 8,625,000 | 114 | 472 | -0.7383148 | |
| 27 | 8,550,000 | 8,700,000 | 115 | 491 | -1.096539515 | |
| 27 | 8,625,000 | 8,775,000 | 116 | 480 | -1.378314534 | |
| 27 | 8,700,000 | 8,850,000 | 117 | 902 | -0.502415647 | |
| 27 | 8,775,000 | 8,925,000 | 118 | 1215 | -1.850574877 | |
| 27 | 8,850,000 | 9,000,000 | 119 | 1025 | -2.607196416 | |
| 27 | 8,925,000 | 9,075,000 | 120 | 1098 | -0.919933889 | |
| 27 | 9,000,000 | 9,150,000 | 121 | 1348 | 0.517574921 | |
| 27 | 9,075,000 | 9,225,000 | 122 | 1214 | 0.843586304 | |
| 27 | 9,150,000 | 9,300,000 | 123 | 606 | 0.312254885 | |
| 27 | 9,225,000 | 9,375,000 | 124 | 649 | 0.300041729 | |
| 27 | 9,300,000 | 9,450,000 | 125 | 693 | 0.531226608 | |
| 27 | 9,375,000 | 9,525,000 | 126 | 621 | -0.519299796 | |
| 27 | 9,450,000 | 9,600,000 | 127 | 707 | -1.628451098 | |
| 27 | 9,525,000 | 9,675,000 | 128 | 567 | -1.038422371 | |
| 27 | 9,600,000 | 9,750,000 | 129 | 376 | 0.044644852 | |
| 27 | 9,675,000 | 9,825,000 | 130 | 460 | -0.150217703 | |
| 27 | 9,750,000 | 9,900,000 | 131 | 623 | -0.158226831 | |
| 27 | 9,825,000 | 9,975,000 | 132 | 872 | -0.043667913 | |
| 27 | 9,900,000 | 10,050,000 | 133 | 825 | -0.732677767 | |
| 27 | 9,975,000 | 10,125,000 | 134 | 826 | -0.479718765 | |
| 27 | 10,050,000 | 10,200,000 | 135 | 898 | 0.713518209 | |
| 27 | 10,125,000 | 10,275,000 | 136 | 724 | 0.133025606 | |
| 27 | 10,200,000 | 10,350,000 | 137 | 565 | -0.11550161 | |
| 27 | 10,275,000 | 10,425,000 | 138 | 567 | 0.819451487 | |
| 27 | 10,350,000 | 10,500,000 | 139 | 1092 | 1.148145936 | |
| 27 | 10,425,000 | 10,575,000 | 140 | 1270 | 0.878731062 | |
| 27 | 10,500,000 | 10,650,000 | 141 | 788 | 0.519180262 | |
| 27 | 10,575,000 | 10,725,000 | 142 | 591 | -1.088057444 | |
| 27 | 10,650,000 | 10,800,000 | 143 | 737 | -0.50941151 | |
| 27 | 10,725,000 | 10,875,000 | 144 | 607 | -0.205003097 | |
| 27 | 10,800,000 | 10,950,000 | 145 | 561 | -0.865167673 | |
| 27 | 10,875,000 | 11,025,000 | 146 | 752 | 0.081532841 | |
| 27 | 10,950,000 | 11,100,000 | 147 | 1234 | 0.311419308 | |
| 27 | 11,025,000 | 11,175,000 | 148 | 1210 | 0.283708632 | |
| 27 | 11,100,000 | 11,250,000 | 149 | 787 | 0.576525275 | |
| 27 | 11,175,000 | 11,325,000 | 150 | 784 | 0.717278214 | |
| 27 | 11,250,000 | 11,400,000 | 151 | 712 | 0.466908974 | |
| 27 | 11,325,000 | 11,475,000 | 152 | 819 | -0.045478237 | |
| 27 | 11,400,000 | 11,550,000 | 153 | 780 | 0.014971604 | |
| 27 | 11,475,000 | 11,625,000 | 154 | 988 | -0.152182655 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 27 | 11,550,000 | 11,700,000 | 155 | 1166 | 0.063746846 | |
| 27 | 11,625,000 | 11,775,000 | 156 | 731 | 0.635442723 | |
| 27 | 11,700,000 | 11,850,000 | 157 | 426 | 0.866558448 | |
| 27 | 11,775,000 | 11,925,000 | 158 | 493 | 1.064531718 | |
| 27 | 11,850,000 | 12,000,000 | 159 | 451 | 0.846341903 | |
| 27 | 11,925,000 | 12,075,000 | 160 | 361 | 0.194613713 | |
| 27 | 12,000,000 | 12,150,000 | 161 | 468 | 0.59181061 | |
| 27 | 12,075,000 | 12,225,000 | 162 | 476 | 0.549770134 | |
| 27 | 12,150,000 | 12,300,000 | 163 | 665 | 0.090190909 | |
| 27 | 12,225,000 | 12,375,000 | 164 | 848 | 0.674805065 | ENSBTAG00000047749 |
| 27 | 12,300,000 | 12,450,000 | 165 | 836 | 0.684374122 | ENSBTAG00000047749 |
| 27 | 12,375,000 | 12,525,000 | 166 | 1010 | 0.541281572 | ENSBTAG00000047749 |
| 27 | 12,450,000 | 12,600,000 | 167 | 1183 | 0.476157718 | |
| 27 | 12,525,000 | 12,675,000 | 168 | 977 | 0.237402952 | ENSBTAG00000021133 |
| 27 | 12,600,000 | 12,750,000 | 169 | 1137 | 0.309634962 | ENSBTAG00000021133 |
| 27 | 12,675,000 | 12,825,000 | 170 | 1142 | 0.563529819 | ENSBTAG00000021133 |
| 27 | 12,750,000 | 12,900,000 | 171 | 1110 | 0.819093684 | ENSBTAG00000021133 |
| 27 | 12,825,000 | 12,975,000 | 172 | 1312 | 0.628544501 | DCTD |
| 27 | 12,900,000 | 13,050,000 | 173 | 838 | 0.510384509 | DCTD |
| 27 | 12,975,000 | 13,125,000 | 174 | 356 | 0.592291121 | |
| 27 | 13,050,000 | 13,200,000 | 175 | 328 | 0.622088144 | WWC2 |
| 27 | 13,125,000 | 13,275,000 | 176 | 369 | 0.247451302 | WWC2,ENSBTAG00000012207,ENSBTAG00000012209 |
| 27 | 13,200,000 | 13,350,000 | 177 | 353 | -1.257964556 | CDKN2AIP,ING2,WWC2,ENSBTAG00000012207,ENSBTAG00000012209 |
| 27 | 13,275,000 | 13,425,000 | 178 | 409 | -0.696497201 | CDKN2AIP,ING2,RWDD4A,TRAPPC11 |
| 27 | 13,350,000 | 13,500,000 | 179 | 492 | 0.074649895 | RWDD4A,STOX2,TRAPPC11 |
| 27 | 13,425,000 | 13,575,000 | 180 | 607 | 0.161748005 | STOX2,TRAPPC11 |
| 27 | 13,500,000 | 13,650,000 | 181 | 469 | 0.293674342 | STOX2 |
| 27 | 13,575,000 | 13,725,000 | 182 | 246 | 0.416526824 | STOX2 |
| 27 | 13,650,000 | 13,800,000 | 183 | 246 | 0.919895061 | ENPP6,STOX2 |
| 27 | 13,725,000 | 13,875,000 | 184 | 361 | 0.563481227 | ENPP6 |
| 27 | 13,800,000 | 13,950,000 | 185 | 557 | -0.342512468 | ENPP6,IRF2 |
| 27 | 13,875,000 | 14,025,000 | 186 | 757 | -0.117106582 | IRF2 |
| 27 | 13,950,000 | 14,100,000 | 187 | 999 | 0.957323502 | CASP3,IRF2 |
| 27 | 14,025,000 | 14,175,000 | 188 | 1145 | 1.063905487 | CASP3,CENPU,PRIMPOL |
| 27 | 14,100,000 | 14,250,000 | 189 | 1046 | 0.921546352 | ACSL1,CASP3,CENPU,PRIMPOL |
| 27 | 14,175,000 | 14,325,000 | 190 | 700 | 0.138176992 | ACSL1,CENPU |
| 27 | 14,250,000 | 14,400,000 | 191 | 513 | -1.9483109 | ACSL1 |
| 27 | 14,325,000 | 14,475,000 | 192 | 397 | -2.043812017 | HELT |
| 27 | 14,400,000 | 14,550,000 | 193 | 599 | 0.09207936 | HELT,SLC25A4 |
| 27 | 14,475,000 | 14,625,000 | 194 | 717 | 0.136829131 | CFAP97,SLC25A4,SNX25 |
| 27 | 14,550,000 | 14,700,000 | 195 | 873 | 0.356362409 | CFAP97,LRP2BP,SLC25A4,SNX25 |
| 27 | 14,625,000 | 14,775,000 | 196 | 974 | 0.344014377 | ANKRD37,C4orf47,CCDC110,LRP2BP,PDLIM3,SNX25,UFSP2 |
| 27 | 14,700,000 | 14,850,000 | 197 | 583 | 0.650058507 | ANKRD37,C4orf47,CCDC110,PDLIM3,UFSP2 |
| 27 | 14,775,000 | 14,925,000 | 198 | 722 | 0.97993874 | PDLIM3,SORBS2 |
| 27 | 14,850,000 | 15,000,000 | 199 | 905 | 1.003830661 | SORBS2 |
| 27 | 14,925,000 | 15,075,000 | 200 | 658 | 0.958961869 | SORBS2 |
| 27 | 15,000,000 | 15,150,000 | 201 | 524 | 0.288301734 | SORBS2 |
| 27 | 15,075,000 | 15,225,000 | 202 | 645 | 0.652669934 | |
| 27 | 15,150,000 | 15,300,000 | 203 | 684 | 0.06693023 | FAM149A,TLR3 |
| 27 | 15,225,000 | 15,375,000 | 204 | 661 | -2.534938608 | CYP4V2,F11,FAM149A,KLKB1,TLR3 |
| 27 | 15,300,000 | 15,450,000 | 205 | 830 | -3.603574071 | CYP4V2,F11,FAM149A,KLKB1,MTNR1A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 27 | 15,375,000 | 15,525,000 | 206 | 844 | -1.17172993 | FAT1,MTNR1A |
| 27 | 15,450,000 | 15,600,000 | 207 | 651 | 0.276437515 | FAT1,MTNR1A |
| 27 | 15,525,000 | 15,675,000 | 208 | 780 | 0.536828498 | FAT1 |
| 27 | 15,600,000 | 15,750,000 | 209 | 939 | -0.97358216 | FAT1 |
| 27 | 15,675,000 | 15,825,000 | 210 | 780 | -1.77877444 | |
| 27 | 15,750,000 | 15,900,000 | 211 | 730 | 0.914234524 | |
| 27 | 15,825,000 | 15,975,000 | 212 | 865 | -0.349606639 | |
| 27 | 15,900,000 | 16,050,000 | 213 | 706 | -1.127696164 | |
| 27 | 15,975,000 | 16,125,000 | 214 | 429 | -0.359359546 | |
| 27 | 16,050,000 | 16,200,000 | 215 | 622 | 0.64860243 | |
| 27 | 16,125,000 | 16,275,000 | 216 | 784 | 0.927764803 | |
| 27 | 16,200,000 | 16,350,000 | 217 | 755 | 1.047222044 | |
| 27 | 16,275,000 | 16,425,000 | 218 | 789 | -0.851000147 | |
| 27 | 16,350,000 | 16,500,000 | 219 | 724 | -3.993710704 | |
| 27 | 16,425,000 | 16,575,000 | 220 | 764 | -2.436867802 | |
| 27 | 16,500,000 | 16,650,000 | 221 | 787 | 0.75691369 | ZFP42 |
| 27 | 16,575,000 | 16,725,000 | 222 | 1019 | 0.832891575 | TRIML2,ZFP42 |
| 27 | 16,650,000 | 16,800,000 | 223 | 1347 | -0.060894343 | TRIML1,TRIML2 |
| 27 | 16,725,000 | 16,875,000 | 224 | 1271 | -0.665534328 | TRIML1,ENSBTAG00000045531 |
| 27 | 16,800,000 | 16,950,000 | 225 | 1090 | -0.17994965 | ENSBTAG00000045531 |
| 27 | 16,875,000 | 17,025,000 | 226 | 1207 | 0.357237772 | |
| 27 | 16,950,000 | 17,100,000 | 227 | 1009 | -0.339723298 | |
| 27 | 17,025,000 | 17,175,000 | 228 | 852 | -0.966455657 | |
| 27 | 17,100,000 | 17,250,000 | 229 | 1441 | 0.898569037 | |
| 27 | 17,175,000 | 17,325,000 | 230 | 1540 | 1.318573186 | |
| 27 | 17,250,000 | 17,400,000 | 231 | 1329 | 1.126760194 | |
| 27 | 17,325,000 | 17,475,000 | 232 | 1260 | 1.217669052 | |
| 27 | 17,400,000 | 17,550,000 | 233 | 1244 | 1.1501906 | ENSBTAG00000047159 |
| 27 | 17,475,000 | 17,625,000 | 234 | 1306 | 0.8398783 | ENSBTAG00000047159 |
| 27 | 17,550,000 | 17,700,000 | 235 | 1267 | -0.336438874 | |
| 27 | 17,625,000 | 17,775,000 | 236 | 1055 | -1.106501473 | |
| 27 | 17,700,000 | 17,850,000 | 237 | 1131 | 0.190266135 | |
| 27 | 17,775,000 | 17,925,000 | 238 | 954 | 0.740237693 | |
| 27 | 17,850,000 | 18,000,000 | 239 | 326 | 0.650656377 | |
| 27 | 17,925,000 | 18,075,000 | 240 | 168 | 0.436529593 | |
| 27 | 18,000,000 | 18,150,000 | 241 | 163 | 0.48050449 | |
| 27 | 18,075,000 | 18,225,000 | 242 | 399 | 0.617615944 | |
| 27 | 18,150,000 | 18,300,000 | 243 | 619 | -0.452676897 | ASAH1,FRG1 |
| 27 | 18,225,000 | 18,375,000 | 244 | 456 | -1.041270488 | ASAH1,FRG1,PCM1 |
| 27 | 18,300,000 | 18,450,000 | 245 | 296 | 0.871438983 | ASAH1,PCM1 |
| 27 | 18,375,000 | 18,525,000 | 246 | 384 | 1.151028481 | FGL1,PCM1 |
| 27 | 18,450,000 | 18,600,000 | 247 | 450 | 1.170534371 | FGL1,MTUS1 |
| 27 | 18,525,000 | 18,675,000 | 248 | 761 | 0.593258367 | MTUS1 |
| 27 | 18,600,000 | 18,750,000 | 249 | 1129 | 0.108307335 | MTUS1,PDGFRL |
| 27 | 18,675,000 | 18,825,000 | 250 | 1020 | -0.300437119 | MTUS1,PDGFRL,SLC7A2 |
| 27 | 18,750,000 | 18,900,000 | 251 | 574 | -0.13415958 | PDGFRL,SLC7A2 |
| 27 | 18,825,000 | 18,975,000 | 252 | 660 | 1.083855329 | MTMR7 |
| 27 | 18,900,000 | 19,050,000 | 253 | 981 | -0.004931407 | MTMR7,VPS37A |
| 27 | 18,975,000 | 19,125,000 | 254 | 812 | -1.748155256 | CNOT7,MTMR7,VPS37A,ZDHHC2 |
| 27 | 19,050,000 | 19,200,000 | 255 | 519 | -0.855130809 | CNOT7,MICU3,VPS37A,ZDHHC2 |
| 27 | 19,125,000 | 19,275,000 | 256 | 304 | 0.668767688 | FGF20,MICU3 |
| 27 | 19,200,000 | 19,350,000 | 257 | 621 | 0.455026536 | FGF20,MICU3 |
| 27 | 19,275,000 | 19,425,000 | 258 | 885 | 0.804775678 | FGF20 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 19,350,000 | 19,500,000 | 259 | 823 | 1.365478012 | |
| 27 | 19,425,000 | 19,575,000 | 260 | 1007 | 1.343692986 | |
| 27 | 19,500,000 | 19,650,000 | 261 | 1342 | 1.331217029 | |
| 27 | 19,575,000 | 19,725,000 | 262 | 1049 | 1.068270726 | |
| 27 | 19,650,000 | 19,800,000 | 263 | 457 | -1.38405618 | |
| 27 | 19,725,000 | 19,875,000 | 264 | 387 | -0.817101303 | |
| 27 | 19,800,000 | 19,950,000 | 265 | 517 | 0.940417649 | |
| 27 | 19,875,000 | 20,025,000 | 266 | 519 | 0.106715977 | MSR1 |
| 27 | 19,950,000 | 20,100,000 | 267 | 828 | -0.595661563 | MSR1 |
| 27 | 20,025,000 | 20,175,000 | 268 | 1222 | 0.424926097 | MSR1 |
| 27 | 20,100,000 | 20,250,000 | 269 | 1292 | 0.832649363 | ENSBTAG00000022767 |
| 27 | 20,175,000 | 20,325,000 | 270 | 1193 | 0.064805209 | ENSBTAG00000022767 |
| 27 | 20,250,000 | 20,400,000 | 271 | 1386 | 0.487018064 | |
| 27 | 20,325,000 | 20,475,000 | 272 | 1487 | 0.987302272 | TUSC3 |
| 27 | 20,400,000 | 20,550,000 | 273 | 1212 | 1.021974825 | TUSC3 |
| 27 | 20,475,000 | 20,625,000 | 274 | 1278 | 1.256142146 | TUSC3,ENSBTAG00000045830 |
| 27 | 20,550,000 | 20,700,000 | 275 | 1161 | 1.253121056 | TUSC3,ENSBTAG00000045830 |
| 27 | 20,625,000 | 20,775,000 | 276 | 857 | 1.110991125 | TUSC3 |
| 27 | 20,700,000 | 20,850,000 | 277 | 1068 | 1.203068967 | |
| 27 | 20,775,000 | 20,925,000 | 278 | 1267 | 1.268974715 | |
| 27 | 20,850,000 | 21,000,000 | 279 | 1015 | 1.303767796 | |
| 27 | 20,925,000 | 21,075,000 | 280 | 940 | 1.091856556 | |
| 27 | 21,000,000 | 21,150,000 | 281 | 819 | 0.95837341 | |
| 27 | 21,075,000 | 21,225,000 | 282 | 513 | 1.042629537 | |
| 27 | 21,150,000 | 21,300,000 | 283 | 356 | 0.118876594 | |
| 27 | 21,225,000 | 21,375,000 | 284 | 460 | -0.316778338 | |
| 27 | 21,300,000 | 21,450,000 | 285 | 706 | 0.58342612 | |
| 27 | 21,375,000 | 21,525,000 | 286 | 615 | 0.784063548 | |
| 27 | 21,450,000 | 21,600,000 | 287 | 630 | 0.563759722 | |
| 27 | 21,525,000 | 21,675,000 | 288 | 1012 | 0.877025591 | |
| 27 | 21,600,000 | 21,750,000 | 289 | 1228 | 0.417028135 | |
| 27 | 21,675,000 | 21,825,000 | 290 | 925 | -0.112635035 | |
| 27 | 21,750,000 | 21,900,000 | 291 | 699 | 0.576847185 | |
| 27 | 21,825,000 | 21,975,000 | 292 | 1119 | 0.003280831 | |
| 27 | 21,900,000 | 22,050,000 | 293 | 951 | -0.569227056 | |
| 27 | 21,975,000 | 22,125,000 | 294 | 916 | 0.389145532 | |
| 27 | 22,050,000 | 22,200,000 | 295 | 1185 | 0.475032083 | |
| 27 | 22,125,000 | 22,275,000 | 296 | 1106 | -0.072158067 | |
| 27 | 22,200,000 | 22,350,000 | 297 | 1032 | -0.417388821 | |
| 27 | 22,275,000 | 22,425,000 | 298 | 867 | -0.165752974 | ENSBTAG00000045990 |
| 27 | 22,350,000 | 22,500,000 | 299 | 842 | 0.341013537 | C27H8orf48,ENSBTAG00000045990 |
| 27 | 22,425,000 | 22,575,000 | 300 | 690 | 0.278271383 | C27H8orf48,ENSBTAG00000024526 |
| 27 | 22,500,000 | 22,650,000 | 301 | 449 | -0.577710747 | C27H8orf48,ENSBTAG00000024526 |
| 27 | 22,575,000 | 22,725,000 | 302 | 408 | -0.976732054 | ENSBTAG00000024526 |
| 27 | 22,650,000 | 22,800,000 | 303 | 468 | -1.792376498 | |
| 27 | 22,725,000 | 22,875,000 | 304 | 398 | -1.27083953 | DLC1 |
| 27 | 22,800,000 | 22,950,000 | 305 | 417 | 0.54860833 | DLC1 |
| 27 | 22,875,000 | 23,025,000 | 306 | 418 | 0.236715874 | DLC1 |
| 27 | 22,950,000 | 23,100,000 | 307 | 451 | -0.106478853 | DLC1,KIAA1456 |
| 27 | 23,025,000 | 23,175,000 | 308 | 693 | -1.090389482 | KIAA1456 |
| 27 | 23,100,000 | 23,250,000 | 309 | 1065 | -1.437892578 | KIAA1456 |
| 27 | 23,175,000 | 23,325,000 | 310 | 1201 | -0.290953651 | LONRF1 |
| 27 | 23,250,000 | 23,400,000 | 311 | 892 | 0.341857081 | LONRF1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 27 | 23,325,000 | 23,475,000 | 312 | 733 | 0.301564724 | LONRF1,ENSBTAG00000000357 |
| 27 | 23,400,000 | 23,550,000 | 313 | 677 | 0.384331071 | ENSBTAG00000000357 |
| 27 | 23,475,000 | 23,625,000 | 314 | 590 | 0.793776044 | ENSBTAG00000000357 |
| 27 | 23,550,000 | 23,700,000 | 315 | 434 | 0.321676131 | |
| 27 | 23,625,000 | 23,775,000 | 316 | 390 | -0.014884278 | |
| 27 | 23,700,000 | 23,850,000 | 317 | 602 | 0.254792785 | |
| 27 | 23,775,000 | 23,925,000 | 318 | 593 | -0.367120718 | CLDN23 |
| 27 | 23,850,000 | 24,000,000 | 319 | 643 | -0.662083832 | CLDN23 |
| 27 | 23,925,000 | 24,075,000 | 320 | 733 | 0.131642606 | |
| 27 | 24,000,000 | 24,150,000 | 321 | 686 | 0.637586217 | MFHAS1 |
| 27 | 24,075,000 | 24,225,000 | 322 | 652 | 0.344828037 | MFHAS1,THEX1 |
| 27 | 24,150,000 | 24,300,000 | 323 | 676 | 0.18972084 | THEX1 |
| 27 | 24,225,000 | 24,375,000 | 324 | 651 | 0.186400333 | PPP1R3B |
| 27 | 24,300,000 | 24,450,000 | 325 | 609 | 0.198577651 | PPP1R3B |
| 27 | 24,375,000 | 24,525,000 | 326 | 672 | -0.362188428 | |
| 27 | 24,450,000 | 24,600,000 | 327 | 644 | -0.348041139 | |
| 27 | 24,525,000 | 24,675,000 | 328 | 898 | 0.486242587 | TNKS |
| 27 | 24,600,000 | 24,750,000 | 329 | 1342 | 0.947057242 | TNKS |
| 27 | 24,675,000 | 24,825,000 | 330 | 1068 | 0.971560638 | DUSP4,TNKS |
| 27 | 24,750,000 | 24,900,000 | 331 | 611 | 0.460666307 | DUSP4,TNKS |
| 27 | 24,825,000 | 24,975,000 | 332 | 843 | 0.699217005 | DUSP4 |
| 27 | 24,900,000 | 25,050,000 | 333 | 974 | 0.378903026 | |
| 27 | 24,975,000 | 25,125,000 | 334 | 587 | 0.090805591 | |
| 27 | 25,050,000 | 25,200,000 | 335 | 560 | 1.007433605 | |
| 27 | 25,125,000 | 25,275,000 | 336 | 803 | 0.463197838 | |
| 27 | 25,200,000 | 25,350,000 | 337 | 998 | 0.302832343 | |
| 27 | 25,275,000 | 25,425,000 | 338 | 1154 | 0.808322699 | LEPROTL1,TMEM66 |
| 27 | 25,350,000 | 25,500,000 | 339 | 898 | 0.524024219 | DCTN6,LEPROTL1,MBOAT4,TMEM66 |
| 27 | 25,425,000 | 25,575,000 | 340 | 653 | -1.030235647 | DCTN6,LEPROTL1,MBOAT4 |
| 27 | 25,500,000 | 25,650,000 | 341 | 752 | -2.476821781 | RPMS |
| 27 | 25,575,000 | 25,725,000 | 342 | 713 | -1.541775269 | RPMS |
| 27 | 25,650,000 | 25,800,000 | 343 | 825 | 0.372046474 | RPMS |
| 27 | 25,725,000 | 25,875,000 | 344 | 980 | 0.563095254 | GTF2E2,RPMS |
| 27 | 25,800,000 | 25,950,000 | 345 | 797 | -0.097717878 | GSR,GTF2E2,RPMS |
| 27 | 25,875,000 | 26,025,000 | 346 | 661 | 0.20981226 | GSR,GTF2E2,UBXN8 |
| 27 | 25,950,000 | 26,100,000 | 347 | 710 | 1.164202295 | GSR,PPP2CB,TEX15,UBXN8 |
| 27 | 26,025,000 | 26,175,000 | 348 | 560 | 1.165894271 | PPP2CB,TEX15,UBXN8 |
| 27 | 26,100,000 | 26,250,000 | 349 | 569 | 0.63593151 | |
| 27 | 26,175,000 | 26,325,000 | 350 | 923 | 0.866642909 | PURG,WRN |
| 27 | 26,250,000 | 26,400,000 | 351 | 536 | 0.996202577 | PURG,WRN |
| 27 | 26,325,000 | 26,475,000 | 352 | 599 | 0.589368174 | WRN |
| 27 | 26,400,000 | 26,550,000 | 353 | 768 | 0.692499794 | WRN |
| 27 | 26,475,000 | 26,625,000 | 354 | 930 | 0.248659365 | |
| 27 | 26,550,000 | 26,700,000 | 355 | 1282 | 0.007496181 | |
| 27 | 26,625,000 | 26,775,000 | 356 | 952 | 0.263364768 | |
| 27 | 26,700,000 | 26,850,000 | 357 | 947 | -0.038742199 | |
| 27 | 26,775,000 | 26,925,000 | 358 | 856 | -0.184401118 | |
| 27 | 26,850,000 | 27,000,000 | 359 | 513 | 0.187029343 | |
| 27 | 26,925,000 | 27,075,000 | 360 | 556 | 0.466492307 | |
| 27 | 27,000,000 | 27,150,000 | 361 | 613 | 0.389092379 | |
| 27 | 27,075,000 | 27,225,000 | 362 | 430 | -0.334464464 | |
| 27 | 27,150,000 | 27,300,000 | 363 | 403 | 0.228269763 | |
| 27 | 27,225,000 | 27,375,000 | 364 | 559 | 0.488379603 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 27,300,000 | 27,450,000 | 365 | 752 | -0.639117132 | |
| 27 | 27,375,000 | 27,525,000 | 366 | 653 | -0.62896525 | |
| 27 | 27,450,000 | 27,600,000 | 367 | 454 | 0.383319688 | |
| 27 | 27,525,000 | 27,675,000 | 368 | 336 | 0.729746215 | GGFBPP5 |
| 27 | 27,600,000 | 27,750,000 | 369 | 373 | 0.479937763 | GGFBPP5 |
| 27 | 27,675,000 | 27,825,000 | 370 | 449 | 0.182358825 | GGFBPP5 |
| 27 | 27,750,000 | 27,900,000 | 371 | 446 | 0.691883125 | GGFBPP5 |
| 27 | 27,825,000 | 27,975,000 | 372 | 480 | 0.779751727 | GGFBPP5 |
| 27 | 27,900,000 | 28,050,000 | 373 | 577 | 0.003023745 | |
| 27 | 27,975,000 | 28,125,000 | 374 | 852 | -0.655268051 | |
| 27 | 28,050,000 | 28,200,000 | 375 | 692 | -0.434164365 | |
| 27 | 28,125,000 | 28,275,000 | 376 | 572 | 0.586224732 | |
| 27 | 28,200,000 | 28,350,000 | 377 | 740 | 0.384129644 | FUT10,PSIP1 |
| 27 | 28,275,000 | 28,425,000 | 378 | 743 | 0.5981841 | C27H8ORF41,FUT10,MAK16,PSIP1 |
| 27 | 28,350,000 | 28,500,000 | 379 | 562 | 0.566907544 | C27H8ORF41,FUT10,MAK16,RNF122 |
| 27 | 28,425,000 | 28,575,000 | 380 | 183 | -0.429290116 | C27H8ORF41,RNF122 |
| 27 | 28,500,000 | 28,650,000 | 381 | 4 | 0.091622664 | |
| 27 | 28,575,000 | 28,725,000 | 382 | 5 | -0.843215899 | |
| 27 | 28,650,000 | 28,800,000 | 383 | 4 | -0.37034775 | |
| 27 | 28,725,000 | 28,875,000 | 384 | 2 | -3.549492077 | |
| 27 | 28,800,000 | 28,950,000 | 385 | 42 | -2.352602011 | |
| 27 | 28,875,000 | 29,025,000 | 386 | 452 | -1.911040765 | DUSP26 |
| 27 | 28,950,000 | 29,100,000 | 387 | 575 | -2.587712179 | DUSP26 |
| 27 | 29,025,000 | 29,175,000 | 388 | 267 | -2.618453664 | |
| 27 | 29,100,000 | 29,250,000 | 389 | 319 | -3.362338296 | |
| 27 | 29,175,000 | 29,325,000 | 390 | 480 | -4.910342737 | |
| 27 | 29,250,000 | 29,400,000 | 391 | 898 | -0.230333679 | |
| 27 | 29,325,000 | 29,475,000 | 392 | 707 | 1.240089657 | |
| 27 | 29,400,000 | 29,550,000 | 393 | 127 | 0.669954809 | |
| 27 | 29,475,000 | 29,625,000 | 394 | 199 | -0.560973522 | |
| 27 | 29,550,000 | 29,700,000 | 395 | 286 | -1.185751189 | |
| 27 | 29,625,000 | 29,775,000 | 396 | 409 | 0.258360052 | |
| 27 | 29,700,000 | 29,850,000 | 397 | 586 | 0.493195549 | |
| 27 | 29,775,000 | 29,925,000 | 398 | 690 | -0.178877837 | |
| 27 | 29,850,000 | 30,000,000 | 399 | 615 | -1.896860859 | |
| 27 | 29,925,000 | 30,075,000 | 400 | 791 | -3.54474253 | |
| 27 | 30,000,000 | 30,150,000 | 401 | 636 | -3.010642892 | |
| 27 | 30,075,000 | 30,225,000 | 402 | 277 | 0.337003826 | |
| 27 | 30,150,000 | 30,300,000 | 403 | 594 | 0.538881057 | |
| 27 | 30,225,000 | 30,375,000 | 404 | 707 | 0.230977959 | |
| 27 | 30,300,000 | 30,450,000 | 405 | 772 | -0.36648363 | UNC5D |
| 27 | 30,375,000 | 30,525,000 | 406 | 1057 | -0.334223659 | UNC5D |
| 27 | 30,450,000 | 30,600,000 | 407 | 1037 | -0.17537275 | UNC5D |
| 27 | 30,525,000 | 30,675,000 | 408 | 1073 | -0.800105387 | UNC5D |
| 27 | 30,600,000 | 30,750,000 | 409 | 1223 | -0.890496867 | UNC5D |
| 27 | 30,675,000 | 30,825,000 | 410 | 1178 | 0.069761293 | UNC5D |
| 27 | 30,750,000 | 30,900,000 | 411 | 966 | 0.640316093 | UNC5D |
| 27 | 30,825,000 | 30,975,000 | 412 | 632 | 0.567631631 | UNC5D |
| 27 | 30,900,000 | 31,050,000 | 413 | 551 | -0.748235386 | UNC5D |
| 27 | 30,975,000 | 31,125,000 | 414 | 643 | -0.706466157 | UNC5D |
| 27 | 31,050,000 | 31,200,000 | 415 | 571 | -1.662256466 | UNC5D,ENSBTAG00000026515 |
| 27 | 31,125,000 | 31,275,000 | 416 | 817 | -2.117704003 | ENSBTAG00000026515 |
| 27 | 31,200,000 | 31,350,000 | 417 | 1227 | -0.374026975 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 27 | 31,275,000 | 31,425,000 | 418 | 810 | 0.332851603 | |
| 27 | 31,350,000 | 31,500,000 | 419 | 684 | -1.251315205 | |
| 27 | 31,425,000 | 31,575,000 | 420 | 950 | -0.870244163 | |
| 27 | 31,500,000 | 31,650,000 | 421 | 621 | -0.060930492 | |
| 27 | 31,575,000 | 31,725,000 | 422 | 699 | 0.683783262 | |
| 27 | 31,650,000 | 31,800,000 | 423 | 1017 | 0.913833786 | |
| 27 | 31,725,000 | 31,875,000 | 424 | 987 | 0.786798874 | KCNU1 |
| 27 | 31,800,000 | 31,950,000 | 425 | 1014 | 0.308654603 | KCNU1 |
| 27 | 31,875,000 | 32,025,000 | 426 | 1158 | 0.180993057 | KCNU1 |
| 27 | 31,950,000 | 32,100,000 | 427 | 1071 | 0.552597212 | KCNU1 |
| 27 | 32,025,000 | 32,175,000 | 428 | 766 | 0.600197045 | |
| 27 | 32,100,000 | 32,250,000 | 429 | 917 | 0.312381479 | |
| 27 | 32,175,000 | 32,325,000 | 430 | 924 | 0.010838659 | |
| 27 | 32,250,000 | 32,400,000 | 431 | 472 | 0.201783575 | |
| 27 | 32,325,000 | 32,475,000 | 432 | 331 | 0.752605981 | ENSBTAG00000033381 |
| 27 | 32,400,000 | 32,550,000 | 433 | 597 | 0.545167718 | ENSBTAG00000033381 |
| 27 | 32,475,000 | 32,625,000 | 434 | 976 | 0.745055804 | |
| 27 | 32,550,000 | 32,700,000 | 435 | 953 | 0.99178069 | ZNF703 |
| 27 | 32,625,000 | 32,775,000 | 436 | 612 | 0.812489094 | ERLIN2,GPR124,PROSC,ZNF703 |
| 27 | 32,700,000 | 32,850,000 | 437 | 684 | -0.090197596 | BRF2,ERLIN2,GPR124,PROSC,RAB11FIP1 |
| 27 | 32,775,000 | 32,925,000 | 438 | 791 | -0.108180064 | ADRB3,BRF2,GOT1L1,GPR124,RAB11FIP1 |
| 27 | 32,850,000 | 33,000,000 | 439 | 631 | 0.597494297 | ADRB3,ASH2L,EIF4EBP1,GOT1L1,RAB11FIP1 |
| 27 | 32,925,000 | 33,075,000 | 440 | 486 | 0.93240487 | ASH2L,BAG4,EIF4EBP1,LSM1,PPAPDC1B,STAR |
| 27 | 33,000,000 | 33,150,000 | 441 | 282 | 0.563419776 | ASH2L,BAG4,DDHD2,LSM1,PPAPDC1B,STAR,WHSC1L1 |
| 27 | 33,075,000 | 33,225,000 | 442 | 210 | 0.42150223 | BAG4,DDHD2,WHSC1L1 |
| 27 | 33,150,000 | 33,300,000 | 443 | 247 | 0.629247097 | FGFR1,LETM2,WHSC1L1 |
| 27 | 33,225,000 | 33,375,000 | 444 | 353 | 0.496802577 | FGFR1,LETM2,WHSC1L1 |
| 27 | 33,300,000 | 33,450,000 | 445 | 369 | 0.955839695 | |
| 27 | 33,375,000 | 33,525,000 | 446 | 381 | 0.841312493 | |
| 27 | 33,450,000 | 33,600,000 | 447 | 860 | 0.249588333 | TACC1 |
| 27 | 33,525,000 | 33,675,000 | 448 | 867 | 0.385424618 | TACC1 |
| 27 | 33,600,000 | 33,750,000 | 449 | 649 | -0.016598156 | PLEKHA2,TACC1 |
| 27 | 33,675,000 | 33,825,000 | 450 | 787 | -0.454648925 | ADAM-9,HTRA4,PLEKHA2,TM2D2 |
| 27 | 33,750,000 | 33,900,000 | 451 | 755 | 0.34606942 | ADAM-9,HTRA4,PLEKHA2,TM2D2 |
| 27 | 33,825,000 | 33,975,000 | 452 | 879 | 0.80701403 | ADAM-9,ADAM32 |
| 27 | 33,900,000 | 34,050,000 | 453 | 1039 | 0.860210836 | ADAM32 |
| 27 | 33,975,000 | 34,125,000 | 454 | 746 | 0.828498724 | ADAM32,ENSBTAG00000040445 |
| 27 | 34,050,000 | 34,200,000 | 455 | 478 | 0.732024437 | ADAM32,ENSBTAG00000040445 |
| 27 | 34,125,000 | 34,275,000 | 456 | 480 | 0.550810448 | ADAM2,ENSBTAG00000009406,ENSBTAG00000040445 |
| 27 | 34,200,000 | 34,350,000 | 457 | 553 | -1.073091219 | ADAM2,ENSBTAG00000009406,ENSBTAG00000040445 |
| 27 | 34,275,000 | 34,425,000 | 458 | 925 | -0.265407663 | ADAM2,ENSBTAG00000033312 |
| 27 | 34,350,000 | 34,500,000 | 459 | 1117 | 0.706821679 | ADAM2,ENSBTAG00000033312 |
| 27 | 34,425,000 | 34,575,000 | 460 | 763 | 0.733613952 | ADAM18,ENSBTAG00000033312 |
| 27 | 34,500,000 | 34,650,000 | 461 | 1041 | 0.28275523 | ADAM18 |
| 27 | 34,575,000 | 34,725,000 | 462 | 1592 | 0.543323137 | ADAM18,IDO1,IDO2 |
| 27 | 34,650,000 | 34,800,000 | 463 | 1451 | 0.932797623 | IDO1,IDO2 |
| 27 | 34,725,000 | 34,875,000 | 464 | 1036 | 0.991520424 | IDO2 |
| 27 | 34,800,000 | 34,950,000 | 465 | 591 | 0.56608752 | C27H8orf4,ENSBTAG00000018713 |
| 27 | 34,875,000 | 35,025,000 | 466 | 489 | 0.288715768 | C27H8orf4,ENSBTAG00000018713 |
| 27 | 34,950,000 | 35,100,000 | 467 | 804 | -0.345086856 | |
| 27 | 35,025,000 | 35,175,000 | 468 | 976 | -0.115750005 | |
| 27 | 35,100,000 | 35,250,000 | 469 | 1101 | 0.13965391 | ZMAT4 |
| 27 | 35,175,000 | 35,325,000 | 470 | 1659 | -0.198116673 | ZMAT4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 35,250,000 | 35,400,000 | 471 | 1670 | 0.339285548 | ZMAT4 |
| 27 | 35,325,000 | 35,475,000 | 472 | 1259 | 1.239677386 | ZMAT4 |
| 27 | 35,400,000 | 35,550,000 | 473 | 1037 | 1.338749728 | ZMAT4 |
| 27 | 35,475,000 | 35,625,000 | 474 | 803 | 0.7176793 | ZMAT4 |
| 27 | 35,550,000 | 35,700,000 | 475 | 1054 | 0.347499786 | ZMAT4 |
| 27 | 35,625,000 | 35,775,000 | 476 | 1387 | 0.552168282 | |
| 27 | 35,700,000 | 35,850,000 | 477 | 975 | -0.260815504 | |
| 27 | 35,775,000 | 35,925,000 | 478 | 549 | -0.737195758 | SFRP1 |
| 27 | 35,850,000 | 36,000,000 | 479 | 633 | -0.306571098 | SFRP1 |
| 27 | 35,925,000 | 36,075,000 | 480 | 784 | 0.022231716 | SFRP1 |
| 27 | 36,000,000 | 36,150,000 | 481 | 592 | 0.785048666 | GINS4,GOLGA7 |
| 27 | 36,075,000 | 36,225,000 | 482 | 415 | 0.381937251 | AGPAT6,GINS4,GOLGA7 |
| 27 | 36,150,000 | 36,300,000 | 483 | 612 | 0.298624174 | AGPAT6,ANK1,GINS4,NKX6-3 |
| 27 | 36,225,000 | 36,375,000 | 484 | 1130 | 0.60278226 | AGPAT6,ANK1,NKX6-3 |
| 27 | 36,300,000 | 36,450,000 | 485 | 1288 | 0.41820303 | ANK1 |
| 27 | 36,375,000 | 36,525,000 | 486 | 1028 | 0.590230513 | |
| 27 | 36,450,000 | 36,600,000 | 487 | 772 | 1.004804867 | KAT6A |
| 27 | 36,525,000 | 36,675,000 | 488 | 532 | 0.93184036 | KAT6A |
| 27 | 36,600,000 | 36,750,000 | 489 | 420 | 1.128664309 | AP3M2,KAT6A,PLAT |
| 27 | 36,675,000 | 36,825,000 | 490 | 411 | 1.083858288 | AP3M2,IKBKB,PLAT |
| 27 | 36,750,000 | 36,900,000 | 491 | 678 | 1.12188355 | IKBKB,PLAT,POLB |
| 27 | 36,825,000 | 36,975,000 | 492 | 792 | 1.090131617 | DKK4,IKBKB,POLB,SLC20A2,VDAC3 |
| 27 | 36,900,000 | 37,050,000 | 493 | 797 | 1.048666233 | DKK4,POLB,SLC20A2,VDAC3 |
| 27 | 36,975,000 | 37,125,000 | 494 | 801 | 0.926011785 | SLC20A2,SMIM19 |
| 27 | 37,050,000 | 37,200,000 | 495 | 721 | 1.01209082 | CHRNA6,CHRN3,SMIM19 |
| 27 | 37,125,000 | 37,275,000 | 496 | 777 | 1.298214397 | CHRNA6,CHRN3,RNF170,THAP1 |
| 27 | 37,200,000 | 37,350,000 | 497 | 1196 | 0.374303301 | CHRNA6,HOOK3,RNF170,THAP1 |
| 27 | 37,275,000 | 37,425,000 | 498 | 1398 | 0.671481009 | FNTA,HOOK3,POMK |
| 27 | 37,350,000 | 37,500,000 | 499 | 1150 | 1.172491604 | FNTA,HGSNAT,HOOK3,INTS10,POMK |
| 27 | 37,425,000 | 37,575,000 | 500 | 745 | 0.664630436 | HGSNAT,INTS10,POMK |
| 27 | 37,500,000 | 37,650,000 | 501 | 206 | 0.132186885 | INTS10 |
| 27 | 37,575,000 | 37,725,000 | 502 | 156 | 0.762502648 | |
| 27 | 37,650,000 | 37,800,000 | 503 | 427 | 0.772438522 | |
| 27 | 37,725,000 | 37,875,000 | 504 | 561 | -0.345733414 | CSGALNACT1 |
| 27 | 37,800,000 | 37,950,000 | 505 | 727 | -1.484674661 | CSGALNACT1 |
| 27 | 37,875,000 | 38,025,000 | 506 | 876 | -0.436455489 | CSGALNACT1 |
| 27 | 37,950,000 | 38,100,000 | 507 | 989 | 0.542556649 | CSGALNACT1,SH2D4A |
| 27 | 38,025,000 | 38,175,000 | 508 | 1358 | 0.29813601 | SH2D4A |
| 27 | 38,100,000 | 38,250,000 | 509 | 1635 | 0.444388316 | |
| 27 | 38,175,000 | 38,325,000 | 510 | 1252 | 0.725458485 | |
| 27 | 38,250,000 | 38,400,000 | 511 | 975 | 0.650418655 | |
| 27 | 38,325,000 | 38,475,000 | 512 | 1017 | 0.170648418 | |
| 27 | 38,400,000 | 38,550,000 | 513 | 990 | 0.308719332 | PSD3 |
| 27 | 38,475,000 | 38,625,000 | 514 | 960 | 1.170444912 | PSD3 |
| 27 | 38,550,000 | 38,700,000 | 515 | 1032 | 0.059814178 | PSD3 |
| 27 | 38,625,000 | 38,775,000 | 516 | 1669 | 0.220747472 | PSD3 |
| 27 | 38,700,000 | 38,850,000 | 517 | 1638 | 0.71232125 | PSD3 |
| 27 | 38,775,000 | 38,925,000 | 518 | 1249 | 0.933701153 | NAT1,PSD3 |
| 27 | 38,850,000 | 39,000,000 | 519 | 1521 | 1.007761686 | NAT1 |
| 27 | 38,925,000 | 39,075,000 | 520 | 1739 | 0.605510781 | |
| 27 | 39,000,000 | 39,150,000 | 521 | 1358 | -0.494717774 | LRR3B |
| 27 | 39,075,000 | 39,225,000 | 522 | 895 | -0.352622991 | LRR3B |
| 27 | 39,150,000 | 39,300,000 | 523 | 828 | 1.333900534 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 27 | 39,225,000 | 39,375,000 | 524 | 1189 | 1.360763231 | |
| 27 | 39,300,000 | 39,450,000 | 525 | 1330 | 0.917290858 | |
| 27 | 39,375,000 | 39,525,000 | 526 | 1130 | 0.59465613 | |
| 27 | 39,450,000 | 39,600,000 | 527 | 1083 | 0.77199361 | |
| 27 | 39,525,000 | 39,675,000 | 528 | 826 | -0.632667867 | |
| 27 | 39,600,000 | 39,750,000 | 529 | 967 | -0.588089549 | |
| 27 | 39,675,000 | 39,825,000 | 530 | 1623 | 0.740784256 | |
| 27 | 39,750,000 | 39,900,000 | 531 | 1544 | 0.73653695 | NGLY1,OXSM |
| 27 | 39,825,000 | 39,975,000 | 532 | 895 | 0.381234143 | NGLY1,OXSM |
| 27 | 39,900,000 | 40,050,000 | 533 | 769 | -0.499780664 | NGLY1,TOP2B |
| 27 | 39,975,000 | 40,125,000 | 534 | 815 | -1.197875216 | TOP2B |
| 27 | 40,050,000 | 40,200,000 | 535 | 962 | -1.966389724 | RARB,TOP2B |
| 27 | 40,125,000 | 40,275,000 | 536 | 843 | -1.617390132 | RARB |
| 27 | 40,200,000 | 40,350,000 | 537 | 532 | 0.043291231 | RARB |
| 27 | 40,275,000 | 40,425,000 | 538 | 532 | 0.309641188 | |
| 27 | 40,350,000 | 40,500,000 | 539 | 685 | -0.213081664 | |
| 27 | 40,425,000 | 40,575,000 | 540 | 976 | -0.009916262 | |
| 27 | 40,500,000 | 40,650,000 | 541 | 1293 | 1.056465946 | |
| 27 | 40,575,000 | 40,725,000 | 542 | 1489 | 0.90635368 | |
| 27 | 40,650,000 | 40,800,000 | 543 | 1265 | 0.436649355 | |
| 27 | 40,725,000 | 40,875,000 | 544 | 866 | 0.464837414 | |
| 27 | 40,800,000 | 40,950,000 | 545 | 770 | 0.346218589 | |
| 27 | 40,875,000 | 41,025,000 | 546 | 636 | -0.071026178 | |
| 27 | 40,950,000 | 41,100,000 | 547 | 416 | 0.049273725 | MCM4,ENSBTAG00000045690 |
| 27 | 41,025,000 | 41,175,000 | 548 | 432 | -0.174416071 | MCM4,ENSBTAG00000045690 |
| 27 | 41,100,000 | 41,250,000 | 549 | 503 | -0.745472149 | |
| 27 | 41,175,000 | 41,325,000 | 550 | 869 | 0.37758511 | |
| 27 | 41,250,000 | 41,400,000 | 551 | 1107 | 0.4637201 | |
| 27 | 41,325,000 | 41,475,000 | 552 | 775 | 0.167581043 | |
| 27 | 41,400,000 | 41,550,000 | 553 | 586 | 0.395620674 | |
| 27 | 41,475,000 | 41,625,000 | 554 | 658 | 0.832241899 | |
| 27 | 41,550,000 | 41,700,000 | 555 | 731 | 0.57259191 | THRB |
| 27 | 41,625,000 | 41,775,000 | 556 | 765 | -0.572324471 | THRB |
| 27 | 41,700,000 | 41,850,000 | 557 | 684 | -1.212326991 | THRB |
| 27 | 41,775,000 | 41,925,000 | 558 | 515 | 0.219111012 | NR1D2 |
| 27 | 41,850,000 | 42,000,000 | 559 | 694 | 0.888327357 | NKIRAS1,NR1D2,RPL15 |
| 27 | 41,925,000 | 42,075,000 | 560 | 854 | 0.819705897 | NKIRAS1,RPL15 |
| 27 | 42,000,000 | 42,150,000 | 561 | 525 | 0.150516582 | |
| 27 | 42,075,000 | 42,225,000 | 562 | 384 | -0.666096795 | UBE2E2 |
| 27 | 42,150,000 | 42,300,000 | 563 | 536 | -1.072375702 | UBE2E2 |
| 27 | 42,225,000 | 42,375,000 | 564 | 627 | -0.986845075 | UBE2E2 |
| 27 | 42,300,000 | 42,450,000 | 565 | 517 | -0.318115131 | ENSBTAG00000021882 |
| 27 | 42,375,000 | 42,525,000 | 566 | 310 | 0.16645803 | ENSBTAG00000021882 |
| 27 | 42,450,000 | 42,600,000 | 567 | 258 | -0.064256685 | ENSBTAG00000021882 |
| 27 | 42,525,000 | 42,675,000 | 568 | 341 | -0.067507672 | |
| 27 | 42,600,000 | 42,750,000 | 569 | 564 | -0.501667192 | |
| 27 | 42,675,000 | 42,825,000 | 570 | 808 | -0.672895792 | |
| 27 | 42,750,000 | 42,900,000 | 571 | 1192 | 0.463678057 | |
| 27 | 42,825,000 | 42,975,000 | 572 | 1388 | 1.216748584 | |
| 27 | 42,900,000 | 43,050,000 | 573 | 867 | 1.078878964 | |
| 27 | 42,975,000 | 43,125,000 | 574 | 792 | 0.681456753 | |
| 27 | 43,050,000 | 43,200,000 | 575 | 799 | 0.613924794 | |
| 27 | 43,125,000 | 43,275,000 | 576 | 745 | -0.246925016 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 27 | 43,200,000 | 43,350,000 | 577 | 1346 | -0.873220195 | |
| 27 | 43,275,000 | 43,425,000 | 578 | 1583 | -1.087700154 | |
| 27 | 43,350,000 | 43,500,000 | 579 | 1388 | -0.363343058 | |
| 27 | 43,425,000 | 43,575,000 | 580 | 965 | 0.135854405 | |
| 27 | 43,500,000 | 43,650,000 | 581 | 1152 | 0.749749734 | |
| 27 | 43,575,000 | 43,725,000 | 582 | 1556 | 0.773700244 | |
| 27 | 43,650,000 | 43,800,000 | 583 | 1608 | 0.475083733 | |
| 27 | 43,725,000 | 43,875,000 | 584 | 1938 | 0.68574564 | |
| 27 | 43,800,000 | 43,950,000 | 585 | 1875 | 0.861057649 | |
| 27 | 43,875,000 | 44,025,000 | 586 | 1554 | 0.771956799 | |
| 27 | 43,950,000 | 44,100,000 | 587 | 1624 | 0.86072446 | |
| 27 | 44,025,000 | 44,175,000 | 588 | 1633 | 0.521250533 | |
| 27 | 44,100,000 | 44,250,000 | 589 | 1420 | 0.362365491 | |
| 27 | 44,175,000 | 44,325,000 | 590 | 1530 | 1.075500569 | |
| 27 | 44,250,000 | 44,400,000 | 591 | 1560 | 0.866574951 | |
| 27 | 44,325,000 | 44,475,000 | 592 | 1531 | -0.097569133 | |
| 27 | 44,400,000 | 44,550,000 | 593 | 1369 | -0.437503014 | |
| 27 | 44,475,000 | 44,625,000 | 594 | 1221 | 0.329300787 | |
| 27 | 44,550,000 | 44,700,000 | 595 | 1506 | 0.884509748 | |
| 27 | 44,625,000 | 44,775,000 | 596 | 1665 | 0.853843021 | |
| 27 | 44,700,000 | 44,850,000 | 597 | 1587 | 0.751645965 | |
| 27 | 44,775,000 | 44,925,000 | 598 | 1221 | 0.71148843 | |
| 27 | 44,850,000 | 45,000,000 | 599 | 1021 | 0.322583643 | |
| 27 | 44,925,000 | 45,075,000 | 600 | 1335 | -0.081513607 | |
| 27 | 45,000,000 | 45,150,000 | 601 | 1335 | -0.332053637 | |
| 27 | 45,075,000 | 45,225,000 | 602 | 1140 | -0.025425104 | |
| 27 | 45,150,000 | 45,300,000 | 603 | 1628 | -0.370340751 | |
| 27 | 45,225,000 | 45,375,000 | 604 | 1402 | -0.696873811 | |
| 27 | 45,300,000 | 45,407,902 | 605 | 665 | 0.016596957 | |
| 28 | 0 | 150,000 | 1 | 974 | -0.407344763 | |
| 28 | 75,000 | 225,000 | 2 | 1003 | 0.196682372 | RAB4A |
| 28 | 150,000 | 300,000 | 3 | 1278 | 0.211757867 | CCSAP,RAB4A |
| 28 | 225,000 | 375,000 | 4 | 1619 | -1.225031255 | CCSAP,RAB4A |
| 28 | 300,000 | 450,000 | 5 | 1225 | -1.690641817 | ACTA1,NUP133 |
| 28 | 375,000 | 525,000 | 6 | 755 | -0.090041947 | ABCB10,ACTA1,NUP133 |
| 28 | 450,000 | 600,000 | 7 | 584 | 0.740632197 | ABCB10,NUP133,TAF5L,URB2 |
| 28 | 525,000 | 675,000 | 8 | 880 | 0.057545519 | ABCB10,TAF5L,URB2 |
| 28 | 600,000 | 750,000 | 9 | 1046 | 0.04332097 | URB2 |
| 28 | 675,000 | 825,000 | 10 | 869 | 0.849143633 | |
| 28 | 750,000 | 900,000 | 11 | 804 | 0.805770465 | |
| 28 | 825,000 | 975,000 | 12 | 479 | 0.36829034 | |
| 28 | 900,000 | 1,050,000 | 13 | 977 | 0.906082206 | |
| 28 | 975,000 | 1,125,000 | 14 | 1011 | 0.76316413 | |
| 28 | 1,050,000 | 1,200,000 | 15 | 718 | 0.173118912 | GALNT2 |
| 28 | 1,125,000 | 1,275,000 | 16 | 1205 | 0.30700221 | GALNT2 |
| 28 | 1,200,000 | 1,350,000 | 17 | 1240 | -0.982223733 | GALNT2,PGBD5 |
| 28 | 1,275,000 | 1,425,000 | 18 | 1296 | -1.463128458 | GALNT2,PGBD5 |
| 28 | 1,350,000 | 1,500,000 | 19 | 1523 | -0.123889509 | PGBD5 |
| 28 | 1,425,000 | 1,575,000 | 20 | 1473 | 0.756561792 | |
| 28 | 1,500,000 | 1,650,000 | 21 | 1681 | 0.353760864 | |
| 28 | 1,575,000 | 1,725,000 | 22 | 1787 | 0.453907637 | ENSBTAG00000048153 |
| 28 | 1,650,000 | 1,800,000 | 23 | 1290 | 0.931910828 | ENSBTAG00000048153 |
| 28 | 1,725,000 | 1,875,000 | 24 | 862 | 0.827194236 | ENSBTAG00000048153 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 28 | 1,800,000 | 1,950,000 | 25 | 749 | -0.280368408 | |
| 28 | 1,875,000 | 2,025,000 | 26 | 843 | 0.555435576 | |
| 28 | 1,950,000 | 2,100,000 | 27 | 1126 | 0.988583235 | |
| 28 | 2,025,000 | 2,175,000 | 28 | 1169 | 0.900041448 | RHOU |
| 28 | 2,100,000 | 2,250,000 | 29 | 822 | 0.135234669 | RHOU |
| 28 | 2,175,000 | 2,325,000 | 30 | 784 | -0.882130157 | RHOU |
| 28 | 2,250,000 | 2,400,000 | 31 | 759 | -0.323015966 | |
| 28 | 2,325,000 | 2,475,000 | 32 | 511 | 0.024580594 | |
| 28 | 2,400,000 | 2,550,000 | 33 | 378 | -0.214907019 | |
| 28 | 2,475,000 | 2,625,000 | 34 | 260 | -1.464044377 | OR5AS1,ENSBTAG00000033555,ENSBTAG00000039837 |
| 28 | 2,550,000 | 2,700,000 | 35 | 246 | -0.364671575 | OR5AS1,ENSBTAG00000033555,ENSBTAG00000039837 |
| 28 | 2,625,000 | 2,775,000 | 36 | 246 | 0.540978013 | OR5D14,ENSBTAG00000038418 |
| 28 | 2,700,000 | 2,850,000 | 37 | 242 | 0.641480572 | OR5D14,ENSBTAG00000004217,ENSBTAG00000038418 |
| 28 | 2,775,000 | 2,925,000 | 38 | 585 | -0.45999664 | OR4P4,ENSBTAG00000004217 |
| 28 | 2,850,000 | 3,000,000 | 39 | 783 | -1.818846732 | OR4P4 |
| 28 | 2,925,000 | 3,075,000 | 40 | 666 | -3.254633505 | TSNAX |
| 28 | 3,000,000 | 3,150,000 | 41 | 916 | -0.086001987 | TSNAX |
| 28 | 3,075,000 | 3,225,000 | 42 | 810 | 0.745667753 | TSNAX,ENSBTAG00000004624 |
| 28 | 3,150,000 | 3,300,000 | 43 | 461 | 0.105431129 | ENSBTAG00000004624,ENSBTAG000000045608 |
| 28 | 3,225,000 | 3,375,000 | 44 | 364 | -0.061210515 | EXOC8,SPRTN,ENSBTAG00000010500,ENSBTAG000000045608 |
| 28 | 3,300,000 | 3,450,000 | 45 | 403 | -0.445821787 | C1orf131,EXOC8,GNPAT,SPRTN,ENSBTAG00000010500 |
| 28 | 3,375,000 | 3,525,000 | 46 | 578 | -0.59599932 | C1orf131,GNPAT,TRIM67 |
| 28 | 3,450,000 | 3,600,000 | 47 | 783 | 0.215413785 | C1orf131,TRIM67 |
| 28 | 3,525,000 | 3,675,000 | 48 | 946 | 0.672958431 | FAM89A |
| 28 | 3,600,000 | 3,750,000 | 49 | 689 | 0.61030943 | ARV1,FAM89A,TTC13 |
| 28 | 3,675,000 | 3,825,000 | 50 | 724 | 0.481131471 | ARV1,FAM89A,TTC13 |
| 28 | 3,750,000 | 3,900,000 | 51 | 967 | -1.394317134 | C1orf198,TTC13 |
| 28 | 3,825,000 | 3,975,000 | 52 | 709 | -1.341500911 | C1orf198,ENSBTAG00000045932 |
| 28 | 3,900,000 | 4,050,000 | 53 | 1084 | 0.708279501 | ENSBTAG00000039845,ENSBTAG00000045932 |
| 28 | 3,975,000 | 4,125,000 | 54 | 1185 | 0.952068553 | FMN2,ENSBTAG00000039845 |
| 28 | 4,050,000 | 4,200,000 | 55 | 683 | 0.938150803 | FMN2 |
| 28 | 4,125,000 | 4,275,000 | 56 | 447 | 0.495114864 | FMN2 |
| 28 | 4,200,000 | 4,350,000 | 57 | 321 | -0.198940847 | FMN2 |
| 28 | 4,275,000 | 4,425,000 | 58 | 479 | -0.248074786 | FMN2 |
| 28 | 4,350,000 | 4,500,000 | 59 | 622 | 0.083543952 | FMN2 |
| 28 | 4,425,000 | 4,575,000 | 60 | 623 | 0.466587364 | FMN2 |
| 28 | 4,500,000 | 4,650,000 | 61 | 1043 | 0.375503534 | |
| 28 | 4,575,000 | 4,725,000 | 62 | 1270 | 0.498527504 | |
| 28 | 4,650,000 | 4,800,000 | 63 | 1081 | 0.805482401 | |
| 28 | 4,725,000 | 4,875,000 | 64 | 1106 | 0.807645289 | |
| 28 | 4,800,000 | 4,950,000 | 65 | 1195 | 0.918620107 | |
| 28 | 4,875,000 | 5,025,000 | 66 | 1239 | 0.914367541 | |
| 28 | 4,950,000 | 5,100,000 | 67 | 859 | 0.780982284 | |
| 28 | 5,025,000 | 5,175,000 | 68 | 780 | 0.975269476 | |
| 28 | 5,100,000 | 5,250,000 | 69 | 1022 | 1.039136808 | |
| 28 | 5,175,000 | 5,325,000 | 70 | 1114 | 0.651977529 | SIPA1L2 |
| 28 | 5,250,000 | 5,400,000 | 71 | 992 | 0.484137655 | SIPA1L2 |
| 28 | 5,325,000 | 5,475,000 | 72 | 650 | 0.277622287 | SIPA1L2 |
| 28 | 5,400,000 | 5,550,000 | 73 | 780 | 0.169697895 | |
| 28 | 5,475,000 | 5,625,000 | 74 | 1235 | 0.424909827 | |
| 28 | 5,550,000 | 5,700,000 | 75 | 1073 | 0.633564199 | |
| 28 | 5,625,000 | 5,775,000 | 76 | 962 | 1.133270297 | MAP10 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|----------------------------|
| 28 | 5,700,000 | 5,850,000 | 77 | 1252 | 1.204357481 | MAP10 |
| 28 | 5,775,000 | 5,925,000 | 78 | 1595 | 1.268966488 | NTPCR,PCNXL2 |
| 28 | 5,850,000 | 6,000,000 | 79 | 1597 | 1.12832995 | NTPCR,PCNXL2 |
| 28 | 5,925,000 | 6,075,000 | 80 | 1062 | 0.818764001 | PCNXL2 |
| 28 | 6,000,000 | 6,150,000 | 81 | 859 | 0.834367047 | PCNXL2 |
| 28 | 6,075,000 | 6,225,000 | 82 | 896 | 1.104512661 | PCNXL2 |
| 28 | 6,150,000 | 6,300,000 | 83 | 852 | 1.080701966 | PCNXL2,ENSBTAG00000021183 |
| 28 | 6,225,000 | 6,375,000 | 84 | 1185 | 1.297845991 | PCNXL2,ENSBTAG00000021183 |
| 28 | 6,300,000 | 6,450,000 | 85 | 1390 | 1.373964075 | |
| 28 | 6,375,000 | 6,525,000 | 86 | 1134 | 1.184192932 | KCNK1 |
| 28 | 6,450,000 | 6,600,000 | 87 | 1441 | 0.534733588 | KCNK1 |
| 28 | 6,525,000 | 6,675,000 | 88 | 1272 | 0.188959709 | KCNK1 |
| 28 | 6,600,000 | 6,750,000 | 89 | 786 | -0.024756411 | |
| 28 | 6,675,000 | 6,825,000 | 90 | 609 | 0.050657344 | SLC35F3 |
| 28 | 6,750,000 | 6,900,000 | 91 | 707 | 0.625009895 | SLC35F3 |
| 28 | 6,825,000 | 6,975,000 | 92 | 1093 | 0.618263905 | SLC35F3 |
| 28 | 6,900,000 | 7,050,000 | 93 | 1180 | -0.061426006 | SLC35F3 |
| 28 | 6,975,000 | 7,125,000 | 94 | 1211 | -0.403273354 | SLC35F3 |
| 28 | 7,050,000 | 7,200,000 | 95 | 782 | -0.299958803 | SLC35F3 |
| 28 | 7,125,000 | 7,275,000 | 96 | 524 | -0.766005897 | SLC35F3,TARBP1 |
| 28 | 7,200,000 | 7,350,000 | 97 | 1003 | -0.240241699 | TARBP1 |
| 28 | 7,275,000 | 7,425,000 | 98 | 771 | -0.22337801 | TARBP1 |
| 28 | 7,350,000 | 7,500,000 | 99 | 308 | -1.415344799 | IRF2BP2 |
| 28 | 7,425,000 | 7,575,000 | 100 | 510 | -2.20895732 | IRF2BP2 |
| 28 | 7,500,000 | 7,650,000 | 101 | 665 | -1.541439949 | |
| 28 | 7,575,000 | 7,725,000 | 102 | 567 | -0.681257786 | |
| 28 | 7,650,000 | 7,800,000 | 103 | 506 | -0.080370244 | |
| 28 | 7,725,000 | 7,875,000 | 104 | 730 | -0.835969206 | |
| 28 | 7,800,000 | 7,950,000 | 105 | 724 | -0.466602208 | RBM34,TOMM20 |
| 28 | 7,875,000 | 8,025,000 | 106 | 494 | 0.631099819 | ARID4B,RBM34,TOMM20 |
| 28 | 7,950,000 | 8,100,000 | 107 | 363 | 0.619386912 | ARID4B,RBM34 |
| 28 | 8,025,000 | 8,175,000 | 108 | 375 | 0.387840567 | ARID4B,GGPS1,TBCE |
| 28 | 8,100,000 | 8,250,000 | 109 | 735 | -0.516594932 | ARID4B,B3GALNT2,GGPS1,TBCE |
| 28 | 8,175,000 | 8,325,000 | 110 | 1341 | -0.365507965 | B3GALNT2,TBCE |
| 28 | 8,250,000 | 8,400,000 | 111 | 1760 | -0.421872593 | B3GALNT2,GNG4 |
| 28 | 8,325,000 | 8,475,000 | 112 | 1456 | -0.872312102 | GNG4,LYST |
| 28 | 8,400,000 | 8,550,000 | 113 | 805 | -1.077853239 | GNG4,LYST |
| 28 | 8,475,000 | 8,625,000 | 114 | 638 | -0.492491086 | LYST |
| 28 | 8,550,000 | 8,700,000 | 115 | 863 | -1.2035231 | LYST |
| 28 | 8,625,000 | 8,775,000 | 116 | 1104 | -0.334988773 | NID1 |
| 28 | 8,700,000 | 8,850,000 | 117 | 1036 | 0.613613444 | NID1 |
| 28 | 8,775,000 | 8,925,000 | 118 | 974 | 1.163686731 | GPR137B,NID1 |
| 28 | 8,850,000 | 9,000,000 | 119 | 978 | 0.671233575 | ERO1LB,GPR137B |
| 28 | 8,925,000 | 9,075,000 | 120 | 939 | -0.720094312 | ERO1LB,GPR137B |
| 28 | 9,000,000 | 9,150,000 | 121 | 1262 | -0.204833102 | EDARADD,ERO1LB |
| 28 | 9,075,000 | 9,225,000 | 122 | 1228 | 0.079719504 | EDARADD,LGALS8 |
| 28 | 9,150,000 | 9,300,000 | 123 | 976 | -0.250174317 | EDARADD,HEATR1,LGALS8 |
| 28 | 9,225,000 | 9,375,000 | 124 | 994 | -0.486244828 | HEATR1,LGALS8 |
| 28 | 9,300,000 | 9,450,000 | 125 | 769 | 0.189009915 | ACTN2 |
| 28 | 9,375,000 | 9,525,000 | 126 | 619 | -0.515614094 | ACTN2,MTR |
| 28 | 9,450,000 | 9,600,000 | 127 | 760 | 0.122427694 | ACTN2,MTR |
| 28 | 9,525,000 | 9,675,000 | 128 | 1277 | 0.765122549 | MTR |
| 28 | 9,600,000 | 9,750,000 | 129 | 1373 | 0.538599546 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 28 | 9,675,000 | 9,825,000 | 130 | 774 | 0.179227018 | |
| 28 | 9,750,000 | 9,900,000 | 131 | 754 | 0.089004717 | |
| 28 | 9,825,000 | 9,975,000 | 132 | 1164 | -1.447333175 | RYR2 |
| 28 | 9,900,000 | 10,050,000 | 133 | 1099 | -1.471567047 | RYR2 |
| 28 | 9,975,000 | 10,125,000 | 134 | 1158 | -1.77958793 | RYR2 |
| 28 | 10,050,000 | 10,200,000 | 135 | 1330 | -1.545408038 | RYR2 |
| 28 | 10,125,000 | 10,275,000 | 136 | 1050 | 0.222395937 | RYR2 |
| 28 | 10,200,000 | 10,350,000 | 137 | 1121 | -0.102586469 | RYR2 |
| 28 | 10,275,000 | 10,425,000 | 138 | 1173 | 0.408401861 | RYR2 |
| 28 | 10,350,000 | 10,500,000 | 139 | 701 | 1.050662035 | RYR2 |
| 28 | 10,425,000 | 10,575,000 | 140 | 848 | 0.385766146 | RYR2 |
| 28 | 10,500,000 | 10,650,000 | 141 | 1333 | -0.375939393 | RYR2 |
| 28 | 10,575,000 | 10,725,000 | 142 | 1084 | -0.049128273 | ZP4 |
| 28 | 10,650,000 | 10,800,000 | 143 | 1029 | 0.358178679 | ZP4 |
| 28 | 10,725,000 | 10,875,000 | 144 | 966 | -0.57566741 | |
| 28 | 10,800,000 | 10,950,000 | 145 | 840 | -0.095950801 | |
| 28 | 10,875,000 | 11,025,000 | 146 | 1210 | 0.057691915 | |
| 28 | 10,950,000 | 11,100,000 | 147 | 910 | -0.051177711 | |
| 28 | 11,025,000 | 11,175,000 | 148 | 549 | 0.68631383 | |
| 28 | 11,100,000 | 11,250,000 | 149 | 861 | 1.165376864 | |
| 28 | 11,175,000 | 11,325,000 | 150 | 1027 | 1.218394479 | ENSBTAG00000004702 |
| 28 | 11,250,000 | 11,400,000 | 151 | 768 | 1.055353825 | ENSBTAG00000004702 |
| 28 | 11,325,000 | 11,475,000 | 152 | 526 | 0.247866988 | |
| 28 | 11,400,000 | 11,550,000 | 153 | 680 | 0.675992644 | |
| 28 | 11,475,000 | 11,625,000 | 154 | 933 | -0.057248945 | |
| 28 | 11,550,000 | 11,700,000 | 155 | 722 | -0.52377079 | |
| 28 | 11,625,000 | 11,775,000 | 156 | 347 | 0.543937028 | |
| 28 | 11,700,000 | 11,850,000 | 157 | 362 | -0.31795739 | |
| 28 | 11,775,000 | 11,925,000 | 158 | 429 | -0.881995219 | |
| 28 | 11,850,000 | 12,000,000 | 159 | 329 | -1.507003905 | |
| 28 | 11,925,000 | 12,075,000 | 160 | 246 | -2.713256791 | |
| 28 | 12,000,000 | 12,150,000 | 161 | 404 | -2.197822775 | |
| 28 | 12,075,000 | 12,225,000 | 162 | 530 | -1.021731037 | |
| 28 | 12,150,000 | 12,300,000 | 163 | 786 | -0.243305682 | |
| 28 | 12,225,000 | 12,375,000 | 164 | 868 | -0.610172454 | |
| 28 | 12,300,000 | 12,450,000 | 165 | 607 | 0.371713025 | |
| 28 | 12,375,000 | 12,525,000 | 166 | 384 | 0.898975243 | |
| 28 | 12,450,000 | 12,600,000 | 167 | 312 | -0.960427822 | |
| 28 | 12,525,000 | 12,675,000 | 168 | 593 | 0.345567495 | |
| 28 | 12,600,000 | 12,750,000 | 169 | 658 | 0.776178192 | |
| 28 | 12,675,000 | 12,825,000 | 170 | 657 | 0.570822906 | CHRM3 |
| 28 | 12,750,000 | 12,900,000 | 171 | 770 | -0.997877044 | CHRM3 |
| 28 | 12,825,000 | 12,975,000 | 172 | 902 | -0.917218982 | ZNF33B,ENSBTAG00000018960 |
| 28 | 12,900,000 | 13,050,000 | 173 | 750 | -0.511714031 | ZNF33B,ENSBTAG00000018960 |
| 28 | 12,975,000 | 13,125,000 | 174 | 443 | -0.329533132 | ENSBTAG00000047340 |
| 28 | 13,050,000 | 13,200,000 | 175 | 435 | 0.807244242 | ZNF25,ENSBTAG0000002955,ENSBTAG00000047340 |
| 28 | 13,125,000 | 13,275,000 | 176 | 514 | 0.819870126 | ZNF248,ZNF25,ENSBTAG0000002955 |
| 28 | 13,200,000 | 13,350,000 | 177 | 727 | 0.774312731 | BMS1,ZNF248 |
| 28 | 13,275,000 | 13,425,000 | 178 | 1133 | 0.331544869 | BMS1 |
| 28 | 13,350,000 | 13,500,000 | 179 | 1507 | -0.486400106 | |
| 28 | 13,425,000 | 13,575,000 | 180 | 1124 | -0.701385592 | RET |
| 28 | 13,500,000 | 13,650,000 | 181 | 968 | -0.938839115 | RET |
| 28 | 13,575,000 | 13,725,000 | 182 | 972 | -1.176301669 | CSGALNACT2,RASGEF1A,RET |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------|
| 28 | 13,650,000 | 13,800,000 | 183 | 559 | -2.589700691 | CSGALNACT2,RASGEF1A |
| 28 | 13,725,000 | 13,875,000 | 184 | 482 | -4.150687459 | |
| 28 | 13,800,000 | 13,950,000 | 185 | 359 | -4.267016963 | HNRNPF |
| 28 | 13,875,000 | 14,025,000 | 186 | 505 | 0.224282021 | HNRNPF |
| 28 | 13,950,000 | 14,100,000 | 187 | 598 | 0.375606647 | |
| 28 | 14,025,000 | 14,175,000 | 188 | 772 | -0.05393913 | |
| 28 | 14,100,000 | 14,250,000 | 189 | 1038 | 0.504172687 | |
| 28 | 14,175,000 | 14,325,000 | 190 | 1038 | 0.614777168 | |
| 28 | 14,250,000 | 14,400,000 | 191 | 1049 | 0.441633721 | BICC1 |
| 28 | 14,325,000 | 14,475,000 | 192 | 1011 | 0.761471992 | BICC1 |
| 28 | 14,400,000 | 14,550,000 | 193 | 1143 | 1.139135002 | BICC1 |
| 28 | 14,475,000 | 14,625,000 | 194 | 962 | 0.81404164 | |
| 28 | 14,550,000 | 14,700,000 | 195 | 807 | 0.730988132 | |
| 28 | 14,625,000 | 14,775,000 | 196 | 756 | 0.954476705 | |
| 28 | 14,700,000 | 14,850,000 | 197 | 607 | 0.76837707 | |
| 28 | 14,775,000 | 14,925,000 | 198 | 740 | 0.332102555 | PHYHIPL |
| 28 | 14,850,000 | 15,000,000 | 199 | 937 | 0.287136366 | FAM13C,PHYHIPL |
| 28 | 14,925,000 | 15,075,000 | 200 | 949 | 0.49299074 | FAM13C,PHYHIPL |
| 28 | 15,000,000 | 15,150,000 | 201 | 837 | -0.235853128 | FAM13C |
| 28 | 15,075,000 | 15,225,000 | 202 | 624 | -0.457849519 | FAM13C |
| 28 | 15,150,000 | 15,300,000 | 203 | 668 | 0.311197296 | |
| 28 | 15,225,000 | 15,375,000 | 204 | 568 | 0.127285788 | |
| 28 | 15,300,000 | 15,450,000 | 205 | 182 | -0.563135578 | SLC16A9 |
| 28 | 15,375,000 | 15,525,000 | 206 | 444 | 0.248281043 | SLC16A9 |
| 28 | 15,450,000 | 15,600,000 | 207 | 704 | 0.417855663 | CCDC6,SLC16A9 |
| 28 | 15,525,000 | 15,675,000 | 208 | 739 | 0.515694846 | CCDC6 |
| 28 | 15,600,000 | 15,750,000 | 209 | 797 | 0.917991315 | CCDC6 |
| 28 | 15,675,000 | 15,825,000 | 210 | 580 | 1.026123057 | ANK3 |
| 28 | 15,750,000 | 15,900,000 | 211 | 308 | 0.437355715 | ANK3 |
| 28 | 15,825,000 | 15,975,000 | 212 | 408 | -0.210097381 | ANK3 |
| 28 | 15,900,000 | 16,050,000 | 213 | 755 | 0.845987989 | ANK3 |
| 28 | 15,975,000 | 16,125,000 | 214 | 903 | 1.127443159 | ANK3 |
| 28 | 16,050,000 | 16,200,000 | 215 | 963 | 1.006566023 | ANK3 |
| 28 | 16,125,000 | 16,275,000 | 216 | 782 | 1.152473567 | |
| 28 | 16,200,000 | 16,350,000 | 217 | 592 | 0.733456496 | |
| 28 | 16,275,000 | 16,425,000 | 218 | 775 | 0.480212823 | |
| 28 | 16,350,000 | 16,500,000 | 219 | 893 | 0.776480553 | |
| 28 | 16,425,000 | 16,575,000 | 220 | 1142 | 0.442678882 | |
| 28 | 16,500,000 | 16,650,000 | 221 | 1231 | 0.276960738 | CDK1 |
| 28 | 16,575,000 | 16,725,000 | 222 | 918 | 0.392778979 | CDK1 |
| 28 | 16,650,000 | 16,800,000 | 223 | 866 | -0.077298563 | RHOBTB1 |
| 28 | 16,725,000 | 16,875,000 | 224 | 864 | -0.796280537 | RHOBTB1 |
| 28 | 16,800,000 | 16,950,000 | 225 | 1124 | -0.1736844 | RHOBTB1 |
| 28 | 16,875,000 | 17,025,000 | 226 | 958 | 0.309711522 | |
| 28 | 16,950,000 | 17,100,000 | 227 | 434 | 0.453722963 | |
| 28 | 17,025,000 | 17,175,000 | 228 | 888 | 1.163570683 | |
| 28 | 17,100,000 | 17,250,000 | 229 | 1229 | 0.834776593 | |
| 28 | 17,175,000 | 17,325,000 | 230 | 942 | 0.266133598 | |
| 28 | 17,250,000 | 17,400,000 | 231 | 906 | 0.2676362 | TMEM26 |
| 28 | 17,325,000 | 17,475,000 | 232 | 666 | 0.253107802 | TMEM26 |
| 28 | 17,400,000 | 17,550,000 | 233 | 448 | 0.547366686 | TMEM26 |
| 28 | 17,475,000 | 17,625,000 | 234 | 583 | -0.153495858 | |
| 28 | 17,550,000 | 17,700,000 | 235 | 446 | -0.270424671 | C10ORF107 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------|
| 28 | 17,625,000 | 17,775,000 | 236 | 292 | -0.31042702 | C10ORF107 |
| 28 | 17,700,000 | 17,850,000 | 237 | 236 | -0.10632586 | C10ORF107 |
| 28 | 17,775,000 | 17,925,000 | 238 | 497 | 0.985171462 | |
| 28 | 17,850,000 | 18,000,000 | 239 | 783 | 0.989983222 | |
| 28 | 17,925,000 | 18,075,000 | 240 | 603 | 0.460253758 | ARID5B |
| 28 | 18,000,000 | 18,150,000 | 241 | 449 | 0.597847847 | ARID5B |
| 28 | 18,075,000 | 18,225,000 | 242 | 421 | 0.295665703 | ARID5B |
| 28 | 18,150,000 | 18,300,000 | 243 | 404 | -0.073831525 | ARID5B |
| 28 | 18,225,000 | 18,375,000 | 244 | 445 | 0.585479246 | RTKN2 |
| 28 | 18,300,000 | 18,450,000 | 245 | 418 | 0.607341875 | RTKN2 |
| 28 | 18,375,000 | 18,525,000 | 246 | 495 | 1.034537443 | RTKN2 |
| 28 | 18,450,000 | 18,600,000 | 247 | 608 | 0.77979869 | RTKN2,ZNF365 |
| 28 | 18,525,000 | 18,675,000 | 248 | 529 | 0.445246252 | ZNF365 |
| 28 | 18,600,000 | 18,750,000 | 249 | 423 | 0.515043703 | |
| 28 | 18,675,000 | 18,825,000 | 250 | 312 | 0.576759257 | |
| 28 | 18,750,000 | 18,900,000 | 251 | 225 | 1.200309639 | |
| 28 | 18,825,000 | 18,975,000 | 252 | 364 | 1.285884901 | |
| 28 | 18,900,000 | 19,050,000 | 253 | 562 | 1.075256077 | ADO,EGR2 |
| 28 | 18,975,000 | 19,125,000 | 254 | 614 | 0.954012703 | ADO,EGR2 |
| 28 | 19,050,000 | 19,200,000 | 255 | 466 | 0.741671971 | |
| 28 | 19,125,000 | 19,275,000 | 256 | 424 | 0.46189584 | |
| 28 | 19,200,000 | 19,350,000 | 257 | 608 | 0.358196548 | |
| 28 | 19,275,000 | 19,425,000 | 258 | 477 | 0.272881114 | JMJD1C,NRBF2 |
| 28 | 19,350,000 | 19,500,000 | 259 | 284 | 0.617651366 | JMJD1C,NRBF2 |
| 28 | 19,425,000 | 19,575,000 | 260 | 642 | -0.80005008 | JMJD1C |
| 28 | 19,500,000 | 19,650,000 | 261 | 858 | -1.82434626 | JMJD1C |
| 28 | 19,575,000 | 19,725,000 | 262 | 785 | -1.160633056 | JMJD1C,REEP3 |
| 28 | 19,650,000 | 19,800,000 | 263 | 655 | 0.000282563 | JMJD1C,REEP3 |
| 28 | 19,725,000 | 19,875,000 | 264 | 640 | 0.647042347 | REEP3 |
| 28 | 19,800,000 | 19,950,000 | 265 | 700 | 0.232864889 | REEP3 |
| 28 | 19,875,000 | 20,025,000 | 266 | 510 | -0.292309288 | |
| 28 | 19,950,000 | 20,100,000 | 267 | 457 | 0.625114183 | |
| 28 | 20,025,000 | 20,175,000 | 268 | 884 | 0.662249185 | |
| 28 | 20,100,000 | 20,250,000 | 269 | 854 | 0.646596218 | |
| 28 | 20,175,000 | 20,325,000 | 270 | 571 | 0.753779482 | |
| 28 | 20,250,000 | 20,400,000 | 271 | 779 | 0.86007198 | |
| 28 | 20,325,000 | 20,475,000 | 272 | 814 | 0.861654684 | |
| 28 | 20,400,000 | 20,550,000 | 273 | 1357 | 0.642395274 | |
| 28 | 20,475,000 | 20,625,000 | 274 | 1795 | 0.497125935 | |
| 28 | 20,550,000 | 20,700,000 | 275 | 1176 | 0.272390799 | |
| 28 | 20,625,000 | 20,775,000 | 276 | 740 | -0.050051938 | |
| 28 | 20,700,000 | 20,850,000 | 277 | 957 | 0.532261773 | |
| 28 | 20,775,000 | 20,925,000 | 278 | 1181 | -0.469271883 | |
| 28 | 20,850,000 | 21,000,000 | 279 | 911 | -1.906030346 | |
| 28 | 20,925,000 | 21,075,000 | 280 | 705 | -0.956272694 | |
| 28 | 21,000,000 | 21,150,000 | 281 | 1006 | -0.379535274 | |
| 28 | 21,075,000 | 21,225,000 | 282 | 1165 | 0.172983852 | |
| 28 | 21,150,000 | 21,300,000 | 283 | 941 | 0.067322043 | |
| 28 | 21,225,000 | 21,375,000 | 284 | 1146 | -0.951561132 | |
| 28 | 21,300,000 | 21,450,000 | 285 | 1462 | -0.150112348 | |
| 28 | 21,375,000 | 21,525,000 | 286 | 870 | 0.85813747 | |
| 28 | 21,450,000 | 21,600,000 | 287 | 463 | 0.634054042 | |
| 28 | 21,525,000 | 21,675,000 | 288 | 752 | 0.755417451 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 21,600,000 | 21,750,000 | 289 | 865 | 0.704418804 | |
| 28 | 21,675,000 | 21,825,000 | 290 | 812 | 0.608993541 | |
| 28 | 21,750,000 | 21,900,000 | 291 | 767 | 0.756718444 | |
| 28 | 21,825,000 | 21,975,000 | 292 | 671 | 0.794904669 | |
| 28 | 21,900,000 | 22,050,000 | 293 | 1005 | 0.273237559 | |
| 28 | 21,975,000 | 22,125,000 | 294 | 933 | 0.121082246 | |
| 28 | 22,050,000 | 22,200,000 | 295 | 620 | 0.692810792 | |
| 28 | 22,125,000 | 22,275,000 | 296 | 678 | -0.419146309 | |
| 28 | 22,200,000 | 22,350,000 | 297 | 729 | -0.574872398 | |
| 28 | 22,275,000 | 22,425,000 | 298 | 1073 | 0.920481685 | CTNNA3 |
| 28 | 22,350,000 | 22,500,000 | 299 | 1180 | 0.790626428 | CTNNA3 |
| 28 | 22,425,000 | 22,575,000 | 300 | 1197 | 0.235866328 | CTNNA3 |
| 28 | 22,500,000 | 22,650,000 | 301 | 1328 | 0.380019362 | CTNNA3 |
| 28 | 22,575,000 | 22,725,000 | 302 | 1006 | 0.045195414 | CTNNA3 |
| 28 | 22,650,000 | 22,800,000 | 303 | 677 | -0.500571303 | CTNNA3 |
| 28 | 22,725,000 | 22,875,000 | 304 | 637 | -0.067017677 | CTNNA3 |
| 28 | 22,800,000 | 22,950,000 | 305 | 886 | 0.688366312 | CTNNA3 |
| 28 | 22,875,000 | 23,025,000 | 306 | 897 | 0.512161699 | CTNNA3 |
| 28 | 22,950,000 | 23,100,000 | 307 | 1106 | 0.545870557 | CTNNA3 |
| 28 | 23,025,000 | 23,175,000 | 308 | 1488 | 0.4037407 | CTNNA3 |
| 28 | 23,100,000 | 23,250,000 | 309 | 1332 | 0.089722675 | CTNNA3 |
| 28 | 23,175,000 | 23,325,000 | 310 | 950 | 0.133303753 | CTNNA3 |
| 28 | 23,250,000 | 23,400,000 | 311 | 945 | 0.585592476 | CTNNA3 |
| 28 | 23,325,000 | 23,475,000 | 312 | 1220 | -0.002583661 | CTNNA3 |
| 28 | 23,400,000 | 23,550,000 | 313 | 1133 | 0.158059214 | CTNNA3,LRRTM3 |
| 28 | 23,475,000 | 23,625,000 | 314 | 953 | 0.74373145 | CTNNA3,LRRTM3 |
| 28 | 23,550,000 | 23,700,000 | 315 | 828 | 0.167970352 | CTNNA3,LRRTM3 |
| 28 | 23,625,000 | 23,775,000 | 316 | 924 | -0.132278784 | CTNNA3,LRRTM3,ENSBTAG00000045493 |
| 28 | 23,700,000 | 23,850,000 | 317 | 990 | -0.366999017 | CTNNA3,LRRTM3,ENSBTAG00000045493 |
| 28 | 23,775,000 | 23,925,000 | 318 | 698 | -0.051399407 | CTNNA3 |
| 28 | 23,850,000 | 24,000,000 | 319 | 483 | 0.385772701 | CTNNA3 |
| 28 | 23,925,000 | 24,075,000 | 320 | 521 | -0.77407617 | CTNNA3 |
| 28 | 24,000,000 | 24,150,000 | 321 | 477 | -0.204438818 | CTNNA3 |
| 28 | 24,075,000 | 24,225,000 | 322 | 609 | 1.015611393 | CTNNA3 |
| 28 | 24,150,000 | 24,300,000 | 323 | 844 | 0.71310015 | CTNNA3 |
| 28 | 24,225,000 | 24,375,000 | 324 | 1081 | 0.462774966 | CTNNA3 |
| 28 | 24,300,000 | 24,450,000 | 325 | 1018 | 0.929125609 | DNAJC12 |
| 28 | 24,375,000 | 24,525,000 | 326 | 936 | 1.22428376 | DNAJC12 |
| 28 | 24,450,000 | 24,600,000 | 327 | 900 | 1.230483615 | HERC4,SIRT1 |
| 28 | 24,525,000 | 24,675,000 | 328 | 573 | 1.137393226 | HERC4,SIRT1 |
| 28 | 24,600,000 | 24,750,000 | 329 | 371 | 0.260446719 | HERC4,MYPN |
| 28 | 24,675,000 | 24,825,000 | 330 | 287 | 0.667482474 | HERC4,MYPN |
| 28 | 24,750,000 | 24,900,000 | 331 | 354 | 0.697332306 | ATOH7,MYPN,PBLD |
| 28 | 24,825,000 | 24,975,000 | 332 | 440 | 0.502437688 | ATOH7,DNA2,MYPN,PBLD,RUFY2,ENSBTAG00000014316 |
| 28 | 24,900,000 | 25,050,000 | 333 | 412 | 0.554789489 | DNA2,RUFY2,SLC25A16,ENSBTAG00000014316 |
| 28 | 24,975,000 | 25,125,000 | 334 | 451 | 0.617632047 | DNA2,SLC25A16,TET1 |
| 28 | 25,050,000 | 25,200,000 | 335 | 395 | 0.621902459 | TET1 |
| 28 | 25,125,000 | 25,275,000 | 336 | 344 | 1.059265325 | CCAR1,STOX1,TET1,ENSBTAG00000033457 |
| 28 | 25,200,000 | 25,350,000 | 337 | 440 | 1.010556077 | CCAR1,DDX50,STOX1,ENSBTAG00000033457 |
| 28 | 25,275,000 | 25,425,000 | 338 | 818 | 0.549582958 | DDX21,DDX50,KBP,STOX1 |
| 28 | 25,350,000 | 25,500,000 | 339 | 944 | -0.330979408 | DDX21,DDX50,KBP |
| 28 | 25,425,000 | 25,575,000 | 340 | 1341 | -1.908997625 | KBP |
| 28 | 25,500,000 | 25,650,000 | 341 | 1658 | -1.417656211 | SRGN |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 28 | 25,575,000 | 25,725,000 | 342 | 975 | -0.24527576 | SRGN,SUPV3L1,VPS26A |
| 28 | 25,650,000 | 25,800,000 | 343 | 1046 | 0.357917367 | HKDC1,SUPV3L1,VPS26A |
| 28 | 25,725,000 | 25,875,000 | 344 | 1228 | 0.283747691 | HK1,HKDC1,SUPV3L1 |
| 28 | 25,800,000 | 25,950,000 | 345 | 1141 | 0.509799203 | HK1,TACR2 |
| 28 | 25,875,000 | 26,025,000 | 346 | 1185 | 0.258133905 | HK1,TACR2,TSPAN15 |
| 28 | 25,950,000 | 26,100,000 | 347 | 975 | -0.589362379 | NEUROG3,TSPAN15 |
| 28 | 26,025,000 | 26,175,000 | 348 | 1102 | -0.993205883 | C28H10ORF35,NEUROG3 |
| 28 | 26,100,000 | 26,250,000 | 349 | 1096 | -0.473117071 | C28H10ORF35 |
| 28 | 26,175,000 | 26,325,000 | 350 | 1051 | -0.036981191 | COL13A1 |
| 28 | 26,250,000 | 26,400,000 | 351 | 1005 | -0.372099347 | COL13A1 |
| 28 | 26,325,000 | 26,475,000 | 352 | 698 | -0.02884019 | COL13A1,H2AFY2 |
| 28 | 26,400,000 | 26,550,000 | 353 | 552 | -1.626623773 | AIFM2,COL13A1,H2AFY2,SAR1A,TYSND1 |
| 28 | 26,475,000 | 26,625,000 | 354 | 775 | -1.097162155 | AIFM2,H2AFY2,PPA1,SAR1A,TYSND1 |
| 28 | 26,550,000 | 26,700,000 | 355 | 1046 | 0.338716128 | LRRC20,NPFFR1,PPA1,SAR1A |
| 28 | 26,625,000 | 26,775,000 | 356 | 1168 | 0.542198223 | EIF4EBP2,LRRC20,NPFFR1 |
| 28 | 26,700,000 | 26,850,000 | 357 | 1002 | 0.737122164 | EIF4EBP2,LRRC20,NODAL |
| 28 | 26,775,000 | 26,925,000 | 358 | 706 | 0.693357636 | EIF4EBP2,KIAA1274,NODAL,ENSBTAG00000047227 |
| 28 | 26,850,000 | 27,000,000 | 359 | 730 | 0.724214711 | ADAMTS14,KIAA1274,PRF1,ENSBTAG00000047227 |
| 28 | 26,925,000 | 27,075,000 | 360 | 1207 | 0.608610342 | ADAMTS14,PRF1 |
| 28 | 27,000,000 | 27,150,000 | 361 | 1367 | 0.445027876 | ADAMTS14,SGPL1,TBATA |
| 28 | 27,075,000 | 27,225,000 | 362 | 1023 | 0.537539157 | ADAMTS14,SGPL1,TBATA |
| 28 | 27,150,000 | 27,300,000 | 363 | 1318 | 0.055343473 | PCBD1,SGPL1 |
| 28 | 27,225,000 | 27,375,000 | 364 | 1537 | -0.027238669 | PCBD1 |
| 28 | 27,300,000 | 27,450,000 | 365 | 1308 | 0.321590628 | |
| 28 | 27,375,000 | 27,525,000 | 366 | 935 | 0.866853084 | UNC5B |
| 28 | 27,450,000 | 27,600,000 | 367 | 835 | 0.516840361 | UNC5B |
| 28 | 27,525,000 | 27,675,000 | 368 | 934 | 0.445672746 | UNC5B,ENSBTAG00000047119 |
| 28 | 27,600,000 | 27,750,000 | 369 | 984 | 0.427527808 | CDH23,SLC29A3,ENSBTAG00000047119 |
| 28 | 27,675,000 | 27,825,000 | 370 | 1193 | -0.81487157 | CDH23,SLC29A3 |
| 28 | 27,750,000 | 27,900,000 | 371 | 1231 | -1.451765491 | CDH23 |
| 28 | 27,825,000 | 27,975,000 | 372 | 1425 | -0.707537342 | CDH23 |
| 28 | 27,900,000 | 28,050,000 | 373 | 1168 | 0.024764407 | C10orf105,CDH23 |
| 28 | 27,975,000 | 28,125,000 | 374 | 1033 | 0.469357506 | C10orf105,CDH23,MGC151567,PSAP |
| 28 | 28,050,000 | 28,200,000 | 375 | 1273 | 0.277772463 | CDH23,MGC151567,PSAP |
| 28 | 28,125,000 | 28,275,000 | 376 | 1214 | -0.058819127 | CHST3,PSAP |
| 28 | 28,200,000 | 28,350,000 | 377 | 1311 | 0.235397398 | ASCC1,CHST3,SPOCK2 |
| 28 | 28,275,000 | 28,425,000 | 378 | 1372 | 0.430680274 | ASCC1,SPOCK2 |
| 28 | 28,350,000 | 28,500,000 | 379 | 1139 | -0.144983772 | ANAPC16,ASCC1,DDIT4 |
| 28 | 28,425,000 | 28,575,000 | 380 | 808 | -0.629925479 | ANAPC16,ASCC1,DDIT4,DNAJB12,MICU1 |
| 28 | 28,500,000 | 28,650,000 | 381 | 1040 | -0.266321322 | DNAJB12,MICU1 |
| 28 | 28,575,000 | 28,725,000 | 382 | 1315 | 0.013261145 | MICU1 |
| 28 | 28,650,000 | 28,800,000 | 383 | 1059 | 0.427682364 | MICU1 |
| 28 | 28,725,000 | 28,875,000 | 384 | 1325 | 1.030021751 | MCU,MICU1 |
| 28 | 28,800,000 | 28,950,000 | 385 | 1641 | 0.985461991 | MCU |
| 28 | 28,875,000 | 29,025,000 | 386 | 1137 | 0.319462668 | MCU |
| 28 | 28,950,000 | 29,100,000 | 387 | 827 | -0.428198408 | MCU,ENSBTAG00000009348,ENSBTAG00000047323 |
| 28 | 29,025,000 | 29,175,000 | 388 | 1017 | 0.197100025 | MCU,PLA2G12B,ENSBTAG00000009348,ENSBTAG00000047323 |
| 28 | 29,100,000 | 29,250,000 | 389 | 1549 | 0.900918293 | P4HA1,PLA2G12B,ENSBTAG00000009348 |
| 28 | 29,175,000 | 29,325,000 | 390 | 1397 | 0.979507293 | P4HA1 |
| 28 | 29,250,000 | 29,400,000 | 391 | 789 | 0.383851852 | ECD,FAM149B1,NUDT13,P4HA1 |
| 28 | 29,325,000 | 29,475,000 | 392 | 579 | -1.658881446 | DNAJC9,ECD,FAM149B1,MRPS16,NUDT13,P4HA1 |
| 28 | 29,400,000 | 29,550,000 | 393 | 554 | -2.019479999 | DNAJC9,FAM149B1,MRPS16 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 29,475,000 | 29,625,000 | 394 | 553 | -0.754707628 | ANXA7,MSS51,PPP3CB,ENSBTAG00000019525 |
| 28 | 29,550,000 | 29,700,000 | 395 | 385 | 0.441424868 | ANXA7,MSS51,PPP3CB,USP54,ENSBTAG00000019525 |
| 28 | 29,625,000 | 29,775,000 | 396 | 409 | 0.042234742 | USP54,ENSBTAG00000019525 |
| 28 | 29,700,000 | 29,850,000 | 397 | 504 | 0.043199712 | FUT11,MYOZ1,SEC24C,SYNPO2L,USP54 |
| 28 | 29,775,000 | 29,925,000 | 398 | 546 | 0.210219268 | CAMK2G,CHCHD1,FUT11,MYOZ1,NDST2,SEC24C,SYNPO2L,ZSWIM8 |
| 28 | 29,850,000 | 30,000,000 | 399 | 644 | 0.398942627 | CAMK2G,CHCHD1,NDST2,PLAU,ZSWIM8 |
| 28 | 29,925,000 | 30,075,000 | 400 | 663 | 0.546611147 | CAMK2G,PLAU,VCL,ENSBTAG00000046355,ENSBTAG0000048036 |
| 28 | 30,000,000 | 30,150,000 | 401 | 656 | 0.738767454 | VCL,ENSBTAG00000046355,ENSBTAG00000048036 |
| 28 | 30,075,000 | 30,225,000 | 402 | 625 | 0.696893452 | AP3M1,VCL,ENSBTAG00000011072 |
| 28 | 30,150,000 | 30,300,000 | 403 | 784 | 0.969664016 | AP3M1,VCL,ENSBTAG00000011072 |
| 28 | 30,225,000 | 30,375,000 | 404 | 779 | 1.09130946 | ENSBTAG00000011072 |
| 28 | 30,300,000 | 30,450,000 | 405 | 924 | 1.066174024 | ENSBTAG00000011072 |
| 28 | 30,375,000 | 30,525,000 | 406 | 827 | 0.947015118 | ENSBTAG00000011072 |
| 28 | 30,450,000 | 30,600,000 | 407 | 295 | 0.27093777 | ENSBTAG00000011072 |
| 28 | 30,525,000 | 30,675,000 | 408 | 286 | 0.32354534 | ENSBTAG00000011072 |
| 28 | 30,600,000 | 30,750,000 | 409 | 441 | 0.318268825 | ENSBTAG00000011072 |
| 28 | 30,675,000 | 30,825,000 | 410 | 569 | 0.523603471 | KAT6B,ENSBTAG00000011072 |
| 28 | 30,750,000 | 30,900,000 | 411 | 529 | 0.881873305 | KAT6B |
| 28 | 30,825,000 | 30,975,000 | 412 | 426 | 1.173841013 | KAT6B |
| 28 | 30,900,000 | 31,050,000 | 413 | 478 | 0.797477719 | DUPD1,KAT6B,ENSBTAG00000023039 |
| 28 | 30,975,000 | 31,125,000 | 414 | 624 | -0.025906657 | DUPD1,KAT6B,SAMD8,ENSBTAG00000023039 |
| 28 | 31,050,000 | 31,200,000 | 415 | 680 | 0.4276101 | COMTD1,SAMD8,VDAC2,ENSBTAG00000023039 |
| 28 | 31,125,000 | 31,275,000 | 416 | 705 | 0.640077679 | COMTD1,VDAC2,ENSBTAG00000013585 |
| 28 | 31,200,000 | 31,350,000 | 417 | 521 | 0.237381596 | ZNF503,ENSBTAG00000013585 |
| 28 | 31,275,000 | 31,425,000 | 418 | 341 | -0.20166014 | ZNF503 |
| 28 | 31,350,000 | 31,500,000 | 419 | 396 | 0.303700784 | |
| 28 | 31,425,000 | 31,575,000 | 420 | 461 | 0.610688151 | |
| 28 | 31,500,000 | 31,650,000 | 421 | 564 | 0.772849949 | |
| 28 | 31,575,000 | 31,725,000 | 422 | 996 | 0.223986375 | |
| 28 | 31,650,000 | 31,800,000 | 423 | 1241 | 0.456492329 | |
| 28 | 31,725,000 | 31,875,000 | 424 | 997 | 1.065421564 | |
| 28 | 31,800,000 | 31,950,000 | 425 | 851 | 1.192114449 | |
| 28 | 31,875,000 | 32,025,000 | 426 | 979 | 1.114040395 | |
| 28 | 31,950,000 | 32,100,000 | 427 | 959 | 0.968622992 | |
| 28 | 32,025,000 | 32,175,000 | 428 | 601 | 0.88636071 | |
| 28 | 32,100,000 | 32,250,000 | 429 | 482 | 0.94896181 | |
| 28 | 32,175,000 | 32,325,000 | 430 | 733 | 0.378152706 | |
| 28 | 32,250,000 | 32,400,000 | 431 | 840 | 0.058493994 | |
| 28 | 32,325,000 | 32,475,000 | 432 | 782 | -0.093209197 | |
| 28 | 32,400,000 | 32,550,000 | 433 | 652 | -0.256414062 | |
| 28 | 32,475,000 | 32,625,000 | 434 | 740 | 0.242793314 | |
| 28 | 32,550,000 | 32,700,000 | 435 | 1095 | 0.43973476 | |
| 28 | 32,625,000 | 32,775,000 | 436 | 1271 | 0.496449723 | |
| 28 | 32,700,000 | 32,850,000 | 437 | 1282 | 0.451884943 | KCNMA1 |
| 28 | 32,775,000 | 32,925,000 | 438 | 1136 | 0.094159502 | KCNMA1,ENSBTAG00000047535 |
| 28 | 32,850,000 | 33,000,000 | 439 | 1064 | 0.047105269 | KCNMA1,ENSBTAG00000047535 |
| 28 | 32,925,000 | 33,075,000 | 440 | 1153 | 0.471555403 | KCNMA1 |
| 28 | 33,000,000 | 33,150,000 | 441 | 1322 | 0.602958127 | KCNMA1 |
| 28 | 33,075,000 | 33,225,000 | 442 | 1209 | 0.73622912 | KCNMA1 |
| 28 | 33,150,000 | 33,300,000 | 443 | 779 | 1.069016432 | KCNMA1 |
| 28 | 33,225,000 | 33,375,000 | 444 | 618 | 0.892338942 | KCNMA1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 33,300,000 | 33,450,000 | 445 | 970 | -0.030670133 | KCNMA1 |
| 28 | 33,375,000 | 33,525,000 | 446 | 1194 | -0.179381603 | KCNMA1 |
| 28 | 33,450,000 | 33,600,000 | 447 | 906 | 0.662679997 | KCNMA1 |
| 28 | 33,525,000 | 33,675,000 | 448 | 542 | 0.858521699 | KCNMA1 |
| 28 | 33,600,000 | 33,750,000 | 449 | 309 | 0.232617878 | DLG5 |
| 28 | 33,675,000 | 33,825,000 | 450 | 464 | 0.973486811 | DLG5 |
| 28 | 33,750,000 | 33,900,000 | 451 | 614 | 0.521243579 | DLG5,POLR3A |
| 28 | 33,825,000 | 33,975,000 | 452 | 470 | 0.006503256 | DLG5,POLR3A,RPS24 |
| 28 | 33,900,000 | 34,050,000 | 453 | 528 | 0.832171165 | POLR3A,RPS24 |
| 28 | 33,975,000 | 34,125,000 | 454 | 719 | 0.334597376 | |
| 28 | 34,050,000 | 34,200,000 | 455 | 963 | 0.092464055 | |
| 28 | 34,125,000 | 34,275,000 | 456 | 925 | -0.063007355 | |
| 28 | 34,200,000 | 34,350,000 | 457 | 870 | -0.298429887 | |
| 28 | 34,275,000 | 34,425,000 | 458 | 1016 | -0.039166218 | |
| 28 | 34,350,000 | 34,500,000 | 459 | 1191 | 0.604939767 | |
| 28 | 34,425,000 | 34,575,000 | 460 | 1192 | 0.763118309 | |
| 28 | 34,500,000 | 34,650,000 | 461 | 792 | 0.780909332 | |
| 28 | 34,575,000 | 34,725,000 | 462 | 734 | 0.64018058 | |
| 28 | 34,650,000 | 34,800,000 | 463 | 912 | -1.026943991 | |
| 28 | 34,725,000 | 34,875,000 | 464 | 791 | -2.316897637 | |
| 28 | 34,800,000 | 34,950,000 | 465 | 486 | -1.954501633 | |
| 28 | 34,875,000 | 35,025,000 | 466 | 292 | 0.476964362 | |
| 28 | 34,950,000 | 35,100,000 | 467 | 396 | 0.751837108 | ZMIZ1 |
| 28 | 35,025,000 | 35,175,000 | 468 | 648 | 0.498907427 | PPIF,ZMIZ1 |
| 28 | 35,100,000 | 35,250,000 | 469 | 765 | 0.818877929 | PPIF,ZCCHC24,ZMIZ1 |
| 28 | 35,175,000 | 35,325,000 | 470 | 918 | 1.151174104 | ANXA11,ZCCHC24 |
| 28 | 35,250,000 | 35,400,000 | 471 | 1135 | 0.894961702 | ANXA11,PLAC9,ZCCHC24 |
| 28 | 35,325,000 | 35,475,000 | 472 | 1388 | 0.501700407 | ANXA11,PLAC9,TMEM254,ENSBTAG00000045788 |
| 28 | 35,400,000 | 35,550,000 | 473 | 1459 | 0.248478135 | TMEM254,ENSBTAG00000045788 |
| 28 | 35,475,000 | 35,625,000 | 474 | 881 | 0.202859782 | CGN1 |
| 28 | 35,550,000 | 35,700,000 | 475 | 571 | 0.593416577 | CGN1,CL46 |
| 28 | 35,625,000 | 35,775,000 | 476 | 653 | 0.24985539 | CL43,CL46 |
| 28 | 35,700,000 | 35,850,000 | 477 | 861 | 0.000183598 | CL43,CL46,SFTPA1,SFTPD |
| 28 | 35,775,000 | 35,925,000 | 478 | 1128 | -0.424922525 | DYDC1,MAT1A,SFTPA1,SFTPD |
| 28 | 35,850,000 | 36,000,000 | 479 | 1096 | -0.138209415 | DYDC1,DYDC2,MAT1A,SFTPA1 |
| 28 | 35,925,000 | 36,075,000 | 480 | 1043 | 0.519056376 | DYDC1,DYDC2,FAM213A |
| 28 | 36,000,000 | 36,150,000 | 481 | 689 | 0.293334494 | FAM213A,SH2D4B,TSPAN14 |
| 28 | 36,075,000 | 36,225,000 | 482 | 816 | 0.471251715 | SH2D4B,TSPAN14 |
| 28 | 36,150,000 | 36,300,000 | 483 | 1142 | 0.158176219 | SH2D4B |
| 28 | 36,225,000 | 36,375,000 | 484 | 1175 | -0.722726036 | |
| 28 | 36,300,000 | 36,450,000 | 485 | 1005 | -0.420841325 | |
| 28 | 36,375,000 | 36,525,000 | 486 | 760 | 0.421579637 | |
| 28 | 36,450,000 | 36,600,000 | 487 | 959 | 0.909922391 | |
| 28 | 36,525,000 | 36,675,000 | 488 | 1053 | 0.795112205 | |
| 28 | 36,600,000 | 36,750,000 | 489 | 1009 | 0.664769164 | |
| 28 | 36,675,000 | 36,825,000 | 490 | 774 | 0.438473394 | |
| 28 | 36,750,000 | 36,900,000 | 491 | 771 | -0.87186676 | |
| 28 | 36,825,000 | 36,975,000 | 492 | 949 | -0.405284422 | |
| 28 | 36,900,000 | 37,050,000 | 493 | 1047 | 0.250766333 | |
| 28 | 36,975,000 | 37,125,000 | 494 | 1099 | 0.147968269 | |
| 28 | 37,050,000 | 37,200,000 | 495 | 998 | -2.97507914 | |
| 28 | 37,125,000 | 37,275,000 | 496 | 765 | -3.958422089 | |
| 28 | 37,200,000 | 37,350,000 | 497 | 672 | 0.660028639 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 28 | 37,275,000 | 37,425,000 | 498 | 821 | 0.571080026 | |
| 28 | 37,350,000 | 37,500,000 | 499 | 720 | -0.041120356 | |
| 28 | 37,425,000 | 37,575,000 | 500 | 750 | 0.197427602 | |
| 28 | 37,500,000 | 37,650,000 | 501 | 763 | -0.112987446 | |
| 28 | 37,575,000 | 37,725,000 | 502 | 759 | -0.510732636 | |
| 28 | 37,650,000 | 37,800,000 | 503 | 1073 | -0.722904266 | |
| 28 | 37,725,000 | 37,875,000 | 504 | 1314 | -0.769241842 | |
| 28 | 37,800,000 | 37,950,000 | 505 | 1110 | -0.085425359 | |
| 28 | 37,875,000 | 38,025,000 | 506 | 1197 | 0.463006359 | |
| 28 | 37,950,000 | 38,100,000 | 507 | 1458 | 0.724059592 | |
| 28 | 38,025,000 | 38,175,000 | 508 | 1448 | 0.963298406 | |
| 28 | 38,100,000 | 38,250,000 | 509 | 1229 | 0.348623926 | |
| 28 | 38,175,000 | 38,325,000 | 510 | 901 | -0.835295948 | NRG3 |
| 28 | 38,250,000 | 38,400,000 | 511 | 918 | -0.037717755 | NRG3 |
| 28 | 38,325,000 | 38,475,000 | 512 | 699 | 0.302779285 | NRG3 |
| 28 | 38,400,000 | 38,550,000 | 513 | 466 | 0.584047134 | |
| 28 | 38,475,000 | 38,625,000 | 514 | 449 | 1.020816411 | |
| 28 | 38,550,000 | 38,700,000 | 515 | 911 | 0.791107431 | |
| 28 | 38,625,000 | 38,775,000 | 516 | 1397 | 0.752938374 | |
| 28 | 38,700,000 | 38,850,000 | 517 | 1289 | -0.002786902 | |
| 28 | 38,775,000 | 38,925,000 | 518 | 1326 | -0.507885628 | |
| 28 | 38,850,000 | 39,000,000 | 519 | 1176 | 0.233325926 | |
| 28 | 38,925,000 | 39,075,000 | 520 | 1342 | 0.518528925 | |
| 28 | 39,000,000 | 39,150,000 | 521 | 1567 | 0.231065576 | |
| 28 | 39,075,000 | 39,225,000 | 522 | 1161 | -0.050726625 | |
| 28 | 39,150,000 | 39,300,000 | 523 | 1048 | -0.151000128 | |
| 28 | 39,225,000 | 39,375,000 | 524 | 689 | -0.175469364 | |
| 28 | 39,300,000 | 39,450,000 | 525 | 849 | -0.87839482 | GHITM |
| 28 | 39,375,000 | 39,525,000 | 526 | 1387 | -0.282380972 | CDHR1,GHITM,LRIT1,LRIT2 |
| 28 | 39,450,000 | 39,600,000 | 527 | 1026 | 0.434004894 | CDHR1,LRIT1,LRIT2,RGR |
| 28 | 39,525,000 | 39,675,000 | 528 | 544 | 0.597578076 | CCSER2,LRIT1,RGR |
| 28 | 39,600,000 | 39,750,000 | 529 | 383 | 0.667955205 | CCSER2 |
| 28 | 39,675,000 | 39,825,000 | 530 | 811 | 0.895193116 | CCSER2 |
| 28 | 39,750,000 | 39,900,000 | 531 | 1015 | 0.617958133 | |
| 28 | 39,825,000 | 39,975,000 | 532 | 963 | -0.252505403 | |
| 28 | 39,900,000 | 40,050,000 | 533 | 838 | -0.166070912 | |
| 28 | 39,975,000 | 40,125,000 | 534 | 569 | 0.066206811 | |
| 28 | 40,050,000 | 40,200,000 | 535 | 637 | 0.194915239 | |
| 28 | 40,125,000 | 40,275,000 | 536 | 526 | 0.705272523 | |
| 28 | 40,200,000 | 40,350,000 | 537 | 495 | -0.24431806 | |
| 28 | 40,275,000 | 40,425,000 | 538 | 743 | 0.138857885 | |
| 28 | 40,350,000 | 40,500,000 | 539 | 857 | 0.860397236 | |
| 28 | 40,425,000 | 40,575,000 | 540 | 1055 | 1.026202315 | |
| 28 | 40,500,000 | 40,650,000 | 541 | 971 | 0.843365751 | |
| 28 | 40,575,000 | 40,725,000 | 542 | 755 | 0.72474901 | |
| 28 | 40,650,000 | 40,800,000 | 543 | 887 | 0.400889054 | GRID1 |
| 28 | 40,725,000 | 40,875,000 | 544 | 1077 | -0.365548801 | GRID1 |
| 28 | 40,800,000 | 40,950,000 | 545 | 1100 | -0.05136712 | GRID1 |
| 28 | 40,875,000 | 41,025,000 | 546 | 1225 | 0.112356113 | GRID1 |
| 28 | 40,950,000 | 41,100,000 | 547 | 1249 | -0.467942792 | GRID1 |
| 28 | 41,025,000 | 41,175,000 | 548 | 801 | -1.039678701 | |
| 28 | 41,100,000 | 41,250,000 | 549 | 667 | -1.090045585 | |
| 28 | 41,175,000 | 41,325,000 | 550 | 748 | -0.443567422 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 28 | 41,250,000 | 41,400,000 | 551 | 1013 | -0.027246641 | |
| 28 | 41,325,000 | 41,475,000 | 552 | 1107 | 0.241776445 | |
| 28 | 41,400,000 | 41,550,000 | 553 | 602 | 0.347324469 | WAPAL |
| 28 | 41,475,000 | 41,625,000 | 554 | 302 | 0.262525773 | WAPAL |
| 28 | 41,550,000 | 41,700,000 | 555 | 435 | -0.177200049 | LDB3,OPN4,WAPAL |
| 28 | 41,625,000 | 41,775,000 | 556 | 588 | -0.174219749 | LDB3,OPN4 |
| 28 | 41,700,000 | 41,850,000 | 557 | 576 | 0.55203407 | BMPR-IA,LDB3 |
| 28 | 41,775,000 | 41,925,000 | 558 | 511 | 0.705778946 | BMPR- IA,C28H10ORF116,MMRN2,SNCG,ENSBTAG00000017946 |
| 28 | 41,850,000 | 42,000,000 | 559 | 472 | 1.04749254 | BMPR- IA,C28H10ORF116,GLUD1,MMRN2,SNCG,ENSBTAG00000017946 |
| 28 | 41,925,000 | 42,075,000 | 560 | 626 | 0.768342581 | FAM35A,GLUD1 |
| 28 | 42,000,000 | 42,150,000 | 561 | 891 | 0.109063331 | FAM35A,GPRIN2,ENSBTAG00000018356 |
| 28 | 42,075,000 | 42,225,000 | 562 | 1118 | 0.516048059 | FAM35A,GPRIN2,ENSBTAG00000018356 |
| 28 | 42,150,000 | 42,300,000 | 563 | 1047 | 0.745192051 | ANXA8,PPYR1 |
| 28 | 42,225,000 | 42,375,000 | 564 | 662 | 0.053071686 | ANTXRL,ANXA8,PPYR1 |
| 28 | 42,300,000 | 42,450,000 | 565 | 633 | -0.197820917 | ANTXRL,ANXA8 |
| 28 | 42,375,000 | 42,525,000 | 566 | 739 | 0.163520459 | |
| 28 | 42,450,000 | 42,600,000 | 567 | 1039 | 0.168640931 | RBP3 |
| 28 | 42,525,000 | 42,675,000 | 568 | 1131 | 0.186361713 | GDF10,GDF2,RBP3 |
| 28 | 42,600,000 | 42,750,000 | 569 | 849 | 0.805316527 | GDF10,GDF2,RBP3 |
| 28 | 42,675,000 | 42,825,000 | 570 | 1104 | 0.927639916 | |
| 28 | 42,750,000 | 42,900,000 | 571 | 1343 | 0.458070702 | ENSBTAG00000014938 |
| 28 | 42,825,000 | 42,975,000 | 572 | 1004 | 0.092379495 | ENSBTAG00000005568,ENSBTAG00000014938 |
| 28 | 42,900,000 | 43,050,000 | 573 | 816 | -0.416116655 | ENSBTAG00000005568 |
| 28 | 42,975,000 | 43,125,000 | 574 | 667 | -0.670462734 | ENSBTAG00000005568 |
| 28 | 43,050,000 | 43,200,000 | 575 | 358 | -0.750461154 | MAPK8 |
| 28 | 43,125,000 | 43,275,000 | 576 | 497 | -1.6157049 | ARHGAP22,MAPK8 |
| 28 | 43,200,000 | 43,350,000 | 577 | 857 | -0.363159791 | ARHGAP22 |
| 28 | 43,275,000 | 43,425,000 | 578 | 838 | 0.26220068 | |
| 28 | 43,350,000 | 43,500,000 | 579 | 882 | -0.254585556 | WDFY4 |
| 28 | 43,425,000 | 43,575,000 | 580 | 1017 | -0.350883118 | WDFY4 |
| 28 | 43,500,000 | 43,650,000 | 581 | 1243 | -0.596695698 | LRRC18,WDFY4 |
| 28 | 43,575,000 | 43,725,000 | 582 | 1465 | -0.241403307 | LRRC18,VSTM4,WDFY4 |
| 28 | 43,650,000 | 43,800,000 | 583 | 1046 | 0.303926505 | FAM170B,VSTM4,WDFY4 |
| 28 | 43,725,000 | 43,875,000 | 584 | 696 | 0.598408181 | C10orf128,FAM170B,VSTM4 |
| 28 | 43,800,000 | 43,950,000 | 585 | 771 | 0.578126629 | C10orf128,C10orf71 |
| 28 | 43,875,000 | 44,025,000 | 586 | 930 | 0.689344429 | C10orf71,DRGX,ERCC6 |
| 28 | 43,950,000 | 44,100,000 | 587 | 1054 | 0.861893872 | DRGX,ERCC6 |
| 28 | 44,025,000 | 44,175,000 | 588 | 1213 | 0.565486673 | CHAT,ERCC6,SLC18A3 |
| 28 | 44,100,000 | 44,250,000 | 589 | 1313 | 0.422991352 | C28H10orf53,CHAT,OGDHL,SLC18A3 |
| 28 | 44,175,000 | 44,325,000 | 590 | 1093 | 0.697316048 | C28H10orf53,CHAT,OGDHL,PARG |
| 28 | 44,250,000 | 44,400,000 | 591 | 687 | 0.581798828 | OGDHL,PARG,TIMM23 |
| 28 | 44,325,000 | 44,475,000 | 592 | 843 | -0.568435206 | MSMB,NCOA4,PARG,TIMM23 |
| 28 | 44,400,000 | 44,550,000 | 593 | 1262 | -0.066079856 | ANUBL1,MSMB,NCOA4,TIMM23,ENSBTAG00000018915 |
| 28 | 44,475,000 | 44,625,000 | 594 | 1128 | 0.300176733 | ANUBL1,MARCH8,ENSBTAG00000018915 |
| 28 | 44,550,000 | 44,700,000 | 595 | 802 | 0.933957818 | ANUBL1,MARCH8 |
| 28 | 44,625,000 | 44,775,000 | 596 | 801 | 1.2265123 | ALOX5,MARCH8 |
| 28 | 44,700,000 | 44,850,000 | 597 | 837 | 0.977246995 | ALOX5,MARCH8,OR13A1,ENSBTAG00000009763 |
| 28 | 44,775,000 | 44,925,000 | 598 | 597 | 0.55460165 | ALOX5,OR13A1,ENSBTAG00000009763,ENSBTAG00000048311 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 44,850,000 | 45,000,000 | 599 | 459 | 0.421646724 | C28H10ORF10,RASSF4,ENSBTAG00000024811,ENSBTAG0000048311 |
| 28 | 44,925,000 | 45,075,000 | 600 | 547 | 0.209636272 | C28H10ORF10,RASSF4,TMEM72,ENSBTAG00000024811,ENSBTAG00000047666 |
| 28 | 45,000,000 | 45,150,000 | 601 | 721 | 0.151569839 | RASSF4,TMEM72,ENSBTAG00000047666 |
| 28 | 45,075,000 | 45,225,000 | 602 | 1086 | 0.157949832 | |
| 28 | 45,150,000 | 45,300,000 | 603 | 1225 | 0.287186905 | |
| 28 | 45,225,000 | 45,375,000 | 604 | 1233 | 0.270451267 | |
| 28 | 45,300,000 | 45,450,000 | 605 | 981 | -0.906638282 | CXCL12 |
| 28 | 45,375,000 | 45,525,000 | 606 | 742 | -1.164331679 | CXCL12 |
| 28 | 45,450,000 | 45,600,000 | 607 | 659 | 0.055228167 | |
| 28 | 45,525,000 | 45,675,000 | 608 | 927 | 0.883101109 | |
| 28 | 45,600,000 | 45,750,000 | 609 | 1401 | 0.072333893 | |
| 28 | 45,675,000 | 45,825,000 | 610 | 1354 | -1.175159897 | |
| 28 | 45,750,000 | 45,900,000 | 611 | 1230 | -0.934831727 | |
| 28 | 45,825,000 | 45,975,000 | 612 | 1031 | 0.155375389 | |
| 28 | 45,900,000 | 46,050,000 | 613 | 1050 | 1.07699949 | ZNF32,ENSBTAG00000032655 |
| 28 | 45,975,000 | 46,125,000 | 614 | 1192 | 0.90527866 | TFAM,ZNF239,ZNF32,ENSBTAG00000032655 |
| 28 | 46,050,000 | 46,200,000 | 615 | 977 | -0.088006394 | AGT,COG2,TFAM,ZNF239 |
| 28 | 46,125,000 | 46,275,000 | 616 | 624 | -1.145225257 | AGT,COG2 |
| 28 | 46,200,000 | 46,312,546 | 617 | 382 | -0.557420057 | COG2 |
| 29 | 0 | 150,000 | 1 | 142 | 0.046551855 | ENSBTAG00000005930 |
| 29 | 75,000 | 225,000 | 2 | 116 | 0.694694122 | ENSBTAG00000005930 |
| 29 | 150,000 | 300,000 | 3 | 94 | 0.816722669 | |
| 29 | 225,000 | 375,000 | 4 | 68 | 0.630238806 | |
| 29 | 300,000 | 450,000 | 5 | 76 | 0.300407973 | |
| 29 | 375,000 | 525,000 | 6 | 96 | 0.397076041 | |
| 29 | 450,000 | 600,000 | 7 | 191 | 0.894161248 | PANX1 |
| 29 | 525,000 | 675,000 | 8 | 510 | 0.530317678 | HEPHL1,PANX1 |
| 29 | 600,000 | 750,000 | 9 | 661 | 0.281031714 | HEPHL1,PANX1 |
| 29 | 675,000 | 825,000 | 10 | 429 | 0.364889691 | HEPHL1 |
| 29 | 750,000 | 900,000 | 11 | 337 | -0.019668968 | |
| 29 | 825,000 | 975,000 | 12 | 390 | -0.165018391 | |
| 29 | 900,000 | 1,050,000 | 13 | 444 | -0.695203615 | C11orf54,MED17,VSTM5 |
| 29 | 975,000 | 1,125,000 | 14 | 413 | -1.049248701 | C11orf54,KIAA1731,MED17,TAF1D,VSTM5 |
| 29 | 1,050,000 | 1,200,000 | 15 | 655 | -0.265384712 | C11orf54,KIAA1731,TAF1D |
| 29 | 1,125,000 | 1,275,000 | 16 | 1034 | 0.215227358 | |
| 29 | 1,200,000 | 1,350,000 | 17 | 1141 | 0.64309273 | SMCO4 |
| 29 | 1,275,000 | 1,425,000 | 18 | 1043 | 0.464267498 | CCDC67,SMCO4 |
| 29 | 1,350,000 | 1,500,000 | 19 | 778 | -0.611898516 | CCDC67,SMCO4 |
| 29 | 1,425,000 | 1,575,000 | 20 | 980 | -1.54266624 | CCDC67 |
| 29 | 1,500,000 | 1,650,000 | 21 | 1056 | -1.037362841 | |
| 29 | 1,575,000 | 1,725,000 | 22 | 963 | -0.267921915 | SLC36A4 |
| 29 | 1,650,000 | 1,800,000 | 23 | 1266 | 0.29492982 | SLC36A4 |
| 29 | 1,725,000 | 1,875,000 | 24 | 1235 | 0.508981957 | |
| 29 | 1,800,000 | 1,950,000 | 25 | 1259 | 0.493172864 | ENSBTAG00000013398,ENSBTAG00000047614 |
| 29 | 1,875,000 | 2,025,000 | 26 | 1169 | 0.925418767 | FAT3,ENSBTAG00000013398,ENSBTAG00000047614 |
| 29 | 1,950,000 | 2,100,000 | 27 | 818 | 0.218434917 | FAT3 |
| 29 | 2,025,000 | 2,175,000 | 28 | 930 | -0.075804373 | FAT3 |
| 29 | 2,100,000 | 2,250,000 | 29 | 1094 | 0.178808301 | FAT3 |
| 29 | 2,175,000 | 2,325,000 | 30 | 1182 | -0.243731463 | FAT3 |
| 29 | 2,250,000 | 2,400,000 | 31 | 1291 | -0.085587843 | FAT3 |
| 29 | 2,325,000 | 2,475,000 | 32 | 1405 | 0.802957739 | FAT3 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 29 | 2,400,000 | 2,550,000 | 33 | 1580 | 0.860322301 | FAT3 |
| 29 | 2,475,000 | 2,625,000 | 34 | 1449 | 0.667412727 | FAT3 |
| 29 | 2,550,000 | 2,700,000 | 35 | 1028 | 0.020186823 | FAT3 |
| 29 | 2,625,000 | 2,775,000 | 36 | 706 | -0.736404686 | |
| 29 | 2,700,000 | 2,850,000 | 37 | 668 | -0.0260402 | |
| 29 | 2,775,000 | 2,925,000 | 38 | 974 | 0.220176315 | |
| 29 | 2,850,000 | 3,000,000 | 39 | 1340 | 0.660082103 | |
| 29 | 2,925,000 | 3,075,000 | 40 | 1463 | 0.656995872 | |
| 29 | 3,000,000 | 3,150,000 | 41 | 1117 | 0.728976439 | |
| 29 | 3,075,000 | 3,225,000 | 42 | 1063 | 0.332016142 | |
| 29 | 3,150,000 | 3,300,000 | 43 | 1198 | 0.557665454 | |
| 29 | 3,225,000 | 3,375,000 | 44 | 1180 | -0.056495064 | |
| 29 | 3,300,000 | 3,450,000 | 45 | 1139 | -0.744245276 | |
| 29 | 3,375,000 | 3,525,000 | 46 | 1160 | -0.800101036 | |
| 29 | 3,450,000 | 3,600,000 | 47 | 1130 | -1.74768177 | |
| 29 | 3,525,000 | 3,675,000 | 48 | 794 | -1.823345547 | |
| 29 | 3,600,000 | 3,750,000 | 49 | 1207 | -0.356654071 | |
| 29 | 3,675,000 | 3,825,000 | 50 | 1200 | -0.732753621 | |
| 29 | 3,750,000 | 3,900,000 | 51 | 1124 | -1.301856962 | |
| 29 | 3,825,000 | 3,975,000 | 52 | 1341 | -0.187923183 | |
| 29 | 3,900,000 | 4,050,000 | 53 | 1266 | 0.36218128 | |
| 29 | 3,975,000 | 4,125,000 | 54 | 1324 | -0.112626503 | |
| 29 | 4,050,000 | 4,200,000 | 55 | 1059 | -0.534280733 | |
| 29 | 4,125,000 | 4,275,000 | 56 | 898 | -0.595425431 | |
| 29 | 4,200,000 | 4,350,000 | 57 | 1180 | -1.499248801 | |
| 29 | 4,275,000 | 4,425,000 | 58 | 1565 | -1.273341106 | |
| 29 | 4,350,000 | 4,500,000 | 59 | 1561 | -0.084361905 | |
| 29 | 4,425,000 | 4,575,000 | 60 | 1125 | 0.598119568 | |
| 29 | 4,500,000 | 4,650,000 | 61 | 932 | 0.394068177 | |
| 29 | 4,575,000 | 4,725,000 | 62 | 988 | 0.331740523 | |
| 29 | 4,650,000 | 4,800,000 | 63 | 1045 | -0.375007353 | |
| 29 | 4,725,000 | 4,875,000 | 64 | 942 | -1.149047552 | |
| 29 | 4,800,000 | 4,950,000 | 65 | 813 | -2.030921184 | |
| 29 | 4,875,000 | 5,025,000 | 66 | 1236 | -0.544444395 | |
| 29 | 4,950,000 | 5,100,000 | 67 | 1445 | -0.079826368 | CHORDC1,NAALAD2 |
| 29 | 5,025,000 | 5,175,000 | 68 | 1069 | -0.337833074 | CHORDC1,NAALAD2 |
| 29 | 5,100,000 | 5,250,000 | 69 | 632 | -1.274469248 | NAALAD2,RNF18,ENSBTAG00000034940,ENSBTAG00000046740 |
| 29 | 5,175,000 | 5,325,000 | 70 | 538 | -1.221537876 | RNF18,ENSBTAG00000034940,ENSBTAG00000046740,ENSBTAG00000046789 |
| 29 | 5,250,000 | 5,400,000 | 71 | 455 | 0.160352907 | ENSBTAG00000033656,ENSBTAG00000046789 |
| 29 | 5,325,000 | 5,475,000 | 72 | 749 | 0.442733752 | ENSBTAG00000033656,ENSBTAG00000046202 |
| 29 | 5,400,000 | 5,550,000 | 73 | 1127 | -0.661190009 | ENSBTAG00000046202 |
| 29 | 5,475,000 | 5,625,000 | 74 | 964 | -0.626974486 | |
| 29 | 5,550,000 | 5,700,000 | 75 | 1079 | -0.647176251 | TRIM43,ENSBTAG00000034891 |
| 29 | 5,625,000 | 5,775,000 | 76 | 1241 | -0.54294357 | TRIM43,ENSBTAG00000034891,ENSBTAG00000034921,ENSBTAG00000038209 |
| 29 | 5,700,000 | 5,850,000 | 77 | 864 | -0.117165613 | ENSBTAG00000034921,ENSBTAG00000038169,ENSBTAG00000038209 |
| 29 | 5,775,000 | 5,925,000 | 78 | 793 | 0.595042098 | FOLH1,ENSBTAG00000038169,ENSBTAG00000039825 |
| 29 | 5,850,000 | 6,000,000 | 79 | 1049 | 0.653393399 | FOLH1,ENSBTAG00000038169,ENSBTAG00000039825 |
| 29 | 5,925,000 | 6,075,000 | 80 | 1147 | 0.027812756 | FOLH1 |
| 29 | 6,000,000 | 6,150,000 | 81 | 949 | 0.291333857 | NOX4 |

| | | | | | | |
|----|-----------|------------|-----|------|--------------|---------------------------------------|
| 29 | 6,075,000 | 6,225,000 | 82 | 844 | 0.816290114 | NOX4 |
| 29 | 6,150,000 | 6,300,000 | 83 | 1352 | 0.169837194 | NOX4 |
| 29 | 6,225,000 | 6,375,000 | 84 | 1393 | -0.468491004 | NOX4,TYR |
| 29 | 6,300,000 | 6,450,000 | 85 | 1260 | 0.109193978 | NOX4,TYR |
| 29 | 6,375,000 | 6,525,000 | 86 | 1154 | 0.971341798 | TYR |
| 29 | 6,450,000 | 6,600,000 | 87 | 1103 | 0.397148924 | TYR |
| 29 | 6,525,000 | 6,675,000 | 88 | 1359 | -0.236484444 | |
| 29 | 6,600,000 | 6,750,000 | 89 | 1362 | -0.654824236 | |
| 29 | 6,675,000 | 6,825,000 | 90 | 1223 | -0.978637003 | |
| 29 | 6,750,000 | 6,900,000 | 91 | 972 | -0.972330527 | |
| 29 | 6,825,000 | 6,975,000 | 92 | 612 | -0.493077668 | |
| 29 | 6,900,000 | 7,050,000 | 93 | 682 | 0.558820823 | |
| 29 | 6,975,000 | 7,125,000 | 94 | 623 | 0.521437849 | |
| 29 | 7,050,000 | 7,200,000 | 95 | 514 | -1.311646525 | GRM5 |
| 29 | 7,125,000 | 7,275,000 | 96 | 866 | -0.993638043 | GRM5 |
| 29 | 7,200,000 | 7,350,000 | 97 | 827 | -1.003714522 | GRM5 |
| 29 | 7,275,000 | 7,425,000 | 98 | 973 | -0.908425479 | ENSBTAG00000034845 |
| 29 | 7,350,000 | 7,500,000 | 99 | 1256 | -0.307995176 | CTSC,ENSBTAG00000034845 |
| 29 | 7,425,000 | 7,575,000 | 100 | 1375 | -0.386653515 | CTSC,RAB38,ENSBTAG00000046360 |
| 29 | 7,500,000 | 7,650,000 | 101 | 1476 | -0.288473067 | RAB38,ENSBTAG00000046360 |
| 29 | 7,575,000 | 7,725,000 | 102 | 1762 | 0.69950686 | DENR,RAB38 |
| 29 | 7,650,000 | 7,800,000 | 103 | 1607 | 0.810339734 | DENR |
| 29 | 7,725,000 | 7,875,000 | 104 | 1348 | 0.988871136 | DENR |
| 29 | 7,800,000 | 7,950,000 | 105 | 1596 | 1.095308727 | |
| 29 | 7,875,000 | 8,025,000 | 106 | 1668 | 0.638817971 | |
| 29 | 7,950,000 | 8,100,000 | 107 | 1717 | 0.741590146 | |
| 29 | 8,025,000 | 8,175,000 | 108 | 1741 | 1.048039013 | |
| 29 | 8,100,000 | 8,250,000 | 109 | 1809 | 0.188723975 | |
| 29 | 8,175,000 | 8,325,000 | 110 | 1422 | -0.25717071 | TMEM135 |
| 29 | 8,250,000 | 8,400,000 | 111 | 1107 | 0.520805088 | TMEM135 |
| 29 | 8,325,000 | 8,475,000 | 112 | 822 | 0.62417279 | TMEM135 |
| 29 | 8,400,000 | 8,550,000 | 113 | 603 | -0.3853714 | |
| 29 | 8,475,000 | 8,625,000 | 114 | 634 | -0.152208203 | |
| 29 | 8,550,000 | 8,700,000 | 115 | 641 | 0.428512128 | FZD4 |
| 29 | 8,625,000 | 8,775,000 | 116 | 1367 | 0.485510069 | FZD4 |
| 29 | 8,700,000 | 8,850,000 | 117 | 1674 | 0.374790008 | PRSS23 |
| 29 | 8,775,000 | 8,925,000 | 118 | 1464 | 0.40962535 | PRSS23 |
| 29 | 8,850,000 | 9,000,000 | 119 | 1606 | -0.01699188 | ME3 |
| 29 | 8,925,000 | 9,075,000 | 120 | 2094 | -0.100997437 | ME3 |
| 29 | 9,000,000 | 9,150,000 | 121 | 2258 | 0.322819584 | ME3 |
| 29 | 9,075,000 | 9,225,000 | 122 | 1804 | 0.322973969 | CCDC81,ME3 |
| 29 | 9,150,000 | 9,300,000 | 123 | 1390 | 0.004864479 | C29H11orf73,CCDC81,ME3 |
| 29 | 9,225,000 | 9,375,000 | 124 | 923 | 0.082986053 | C29H11orf73,CCDC81,EED |
| 29 | 9,300,000 | 9,450,000 | 125 | 525 | 0.235630488 | C29H11orf73,EED |
| 29 | 9,375,000 | 9,525,000 | 126 | 586 | -0.440235179 | |
| 29 | 9,450,000 | 9,600,000 | 127 | 550 | -1.0812487 | |
| 29 | 9,525,000 | 9,675,000 | 128 | 291 | -1.746107459 | PICALM |
| 29 | 9,600,000 | 9,750,000 | 129 | 343 | -2.355249116 | CCDC83,PICALM |
| 29 | 9,675,000 | 9,825,000 | 130 | 396 | -1.968005942 | CCDC83,SYTL2 |
| 29 | 9,750,000 | 9,900,000 | 131 | 513 | -0.619604763 | CCDC83,SYTL2 |
| 29 | 9,825,000 | 9,975,000 | 132 | 854 | 0.293422905 | CCDC89,CREBZF,SYTL2,TMEM126A |
| 29 | 9,900,000 | 10,050,000 | 133 | 968 | 0.450912452 | CCDC89,CREBZF,SYTL2,TMEM126A,TMEM126B |
| 29 | 9,975,000 | 10,125,000 | 134 | 782 | -0.152443908 | TMEM126B |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 29 | 10,050,000 | 10,200,000 | 135 | 746 | -0.014900417 | |
| 29 | 10,125,000 | 10,275,000 | 136 | 891 | 0.213904944 | |
| 29 | 10,200,000 | 10,350,000 | 137 | 1109 | 0.173939615 | |
| 29 | 10,275,000 | 10,425,000 | 138 | 1395 | 0.469630426 | |
| 29 | 10,350,000 | 10,500,000 | 139 | 1270 | 0.408470816 | |
| 29 | 10,425,000 | 10,575,000 | 140 | 966 | 0.507088016 | |
| 29 | 10,500,000 | 10,650,000 | 141 | 1181 | -0.152231308 | |
| 29 | 10,575,000 | 10,725,000 | 142 | 1131 | -0.598861705 | |
| 29 | 10,650,000 | 10,800,000 | 143 | 862 | 0.016194834 | ENSBTAG00000047436 |
| 29 | 10,725,000 | 10,875,000 | 144 | 875 | -2.051181052 | ENSBTAG00000047436 |
| 29 | 10,800,000 | 10,950,000 | 145 | 795 | -2.483289234 | |
| 29 | 10,875,000 | 11,025,000 | 146 | 859 | -0.108718539 | |
| 29 | 10,950,000 | 11,100,000 | 147 | 1129 | 0.567406943 | |
| 29 | 11,025,000 | 11,175,000 | 148 | 1124 | 0.141056625 | |
| 29 | 11,100,000 | 11,250,000 | 149 | 663 | -0.412108332 | |
| 29 | 11,175,000 | 11,325,000 | 150 | 655 | 0.660029623 | |
| 29 | 11,250,000 | 11,400,000 | 151 | 785 | 0.581978251 | |
| 29 | 11,325,000 | 11,475,000 | 152 | 706 | 0.013832132 | |
| 29 | 11,400,000 | 11,550,000 | 153 | 831 | 0.617441956 | |
| 29 | 11,475,000 | 11,625,000 | 154 | 1027 | 0.252793073 | |
| 29 | 11,550,000 | 11,700,000 | 155 | 1390 | 0.151977012 | |
| 29 | 11,625,000 | 11,775,000 | 156 | 1622 | 0.586915835 | |
| 29 | 11,700,000 | 11,850,000 | 157 | 1560 | 0.477632359 | |
| 29 | 11,775,000 | 11,925,000 | 158 | 1557 | 0.400857606 | |
| 29 | 11,850,000 | 12,000,000 | 159 | 1407 | 0.404764045 | |
| 29 | 11,925,000 | 12,075,000 | 160 | 865 | -0.710232302 | |
| 29 | 12,000,000 | 12,150,000 | 161 | 656 | -2.846554486 | DLG2 |
| 29 | 12,075,000 | 12,225,000 | 162 | 809 | -1.106888026 | DLG2,ENSBTAG00000017735 |
| 29 | 12,150,000 | 12,300,000 | 163 | 869 | -0.084126428 | DLG2,ENSBTAG00000017735 |
| 29 | 12,225,000 | 12,375,000 | 164 | 821 | -0.393759185 | DLG2 |
| 29 | 12,300,000 | 12,450,000 | 165 | 950 | -0.148941269 | DLG2 |
| 29 | 12,375,000 | 12,525,000 | 166 | 895 | 0.094066146 | ANKRD42,CCDC90B |
| 29 | 12,450,000 | 12,600,000 | 167 | 521 | 0.252674253 | ANKRD42,CCDC90B,PCF11 |
| 29 | 12,525,000 | 12,675,000 | 168 | 629 | 0.876568797 | ANKRD42,PCF11,RAB30 |
| 29 | 12,600,000 | 12,750,000 | 169 | 809 | 0.244575825 | RAB30 |
| 29 | 12,675,000 | 12,825,000 | 170 | 475 | -1.047207548 | DDIAS,PRCP,RAB30 |
| 29 | 12,750,000 | 12,900,000 | 171 | 250 | 0.093618389 | DDIAS,PRCP,RAB30 |
| 29 | 12,825,000 | 12,975,000 | 172 | 250 | 0.0075962 | PRCP |
| 29 | 12,900,000 | 13,050,000 | 173 | 331 | -0.043977719 | FAM181B,PRCP |
| 29 | 12,975,000 | 13,125,000 | 174 | 874 | -0.505290809 | FAM181B |
| 29 | 13,050,000 | 13,200,000 | 175 | 1130 | 0.083805326 | |
| 29 | 13,125,000 | 13,275,000 | 176 | 1389 | 0.287083272 | |
| 29 | 13,200,000 | 13,350,000 | 177 | 1826 | 0.293308216 | |
| 29 | 13,275,000 | 13,425,000 | 178 | 1444 | 0.854059353 | |
| 29 | 13,350,000 | 13,500,000 | 179 | 946 | 1.127190445 | ENSBTAG00000010970 |
| 29 | 13,425,000 | 13,575,000 | 180 | 927 | 1.143182665 | ENSBTAG00000010970 |
| 29 | 13,500,000 | 13,650,000 | 181 | 1288 | 1.143434416 | ENSBTAG00000022427 |
| 29 | 13,575,000 | 13,725,000 | 182 | 1236 | 1.197568671 | ENSBTAG00000022427 |
| 29 | 13,650,000 | 13,800,000 | 183 | 900 | 0.733637794 | |
| 29 | 13,725,000 | 13,875,000 | 184 | 691 | 0.173940993 | |
| 29 | 13,800,000 | 13,950,000 | 185 | 794 | 0.761697121 | |
| 29 | 13,875,000 | 14,025,000 | 186 | 1326 | -0.022980756 | |
| 29 | 13,950,000 | 14,100,000 | 187 | 1137 | -0.377524379 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 29 | 14,025,000 | 14,175,000 | 188 | 763 | 0.674555454 | |
| 29 | 14,100,000 | 14,250,000 | 189 | 843 | 0.656072092 | |
| 29 | 14,175,000 | 14,325,000 | 190 | 826 | 0.253379954 | |
| 29 | 14,250,000 | 14,400,000 | 191 | 867 | 0.1566929 | |
| 29 | 14,325,000 | 14,475,000 | 192 | 1146 | 0.759502317 | |
| 29 | 14,400,000 | 14,550,000 | 193 | 1447 | 1.093452041 | |
| 29 | 14,475,000 | 14,625,000 | 194 | 1239 | 1.025402272 | |
| 29 | 14,550,000 | 14,700,000 | 195 | 1007 | -1.353080402 | |
| 29 | 14,625,000 | 14,775,000 | 196 | 1742 | -2.590115921 | |
| 29 | 14,700,000 | 14,850,000 | 197 | 1656 | -1.648401048 | |
| 29 | 14,775,000 | 14,925,000 | 198 | 1163 | 0.223245612 | |
| 29 | 14,850,000 | 15,000,000 | 199 | 1303 | -0.275340562 | |
| 29 | 14,925,000 | 15,075,000 | 200 | 1021 | -0.045015768 | |
| 29 | 15,000,000 | 15,150,000 | 201 | 903 | 1.234465851 | |
| 29 | 15,075,000 | 15,225,000 | 202 | 1241 | 1.333776101 | |
| 29 | 15,150,000 | 15,300,000 | 203 | 1480 | 1.009586929 | |
| 29 | 15,225,000 | 15,375,000 | 204 | 1415 | 0.611694379 | |
| 29 | 15,300,000 | 15,450,000 | 205 | 1486 | 0.256229522 | |
| 29 | 15,375,000 | 15,525,000 | 206 | 1300 | 0.255642625 | |
| 29 | 15,450,000 | 15,600,000 | 207 | 960 | 0.852025289 | |
| 29 | 15,525,000 | 15,675,000 | 208 | 1129 | 0.85130207 | |
| 29 | 15,600,000 | 15,750,000 | 209 | 1470 | 0.592936297 | |
| 29 | 15,675,000 | 15,825,000 | 210 | 1796 | 0.616697659 | |
| 29 | 15,750,000 | 15,900,000 | 211 | 1744 | 0.570666648 | |
| 29 | 15,825,000 | 15,975,000 | 212 | 1013 | -0.265815653 | |
| 29 | 15,900,000 | 16,050,000 | 213 | 557 | 0.042358003 | |
| 29 | 15,975,000 | 16,125,000 | 214 | 724 | 1.077682926 | |
| 29 | 16,050,000 | 16,200,000 | 215 | 887 | 0.252521639 | |
| 29 | 16,125,000 | 16,275,000 | 216 | 959 | -0.629257007 | |
| 29 | 16,200,000 | 16,350,000 | 217 | 1446 | -0.010388872 | |
| 29 | 16,275,000 | 16,425,000 | 218 | 1779 | -0.020120852 | |
| 29 | 16,350,000 | 16,500,000 | 219 | 1557 | 0.100676693 | |
| 29 | 16,425,000 | 16,575,000 | 220 | 1338 | 0.690114702 | |
| 29 | 16,500,000 | 16,650,000 | 221 | 1274 | 0.720971479 | |
| 29 | 16,575,000 | 16,725,000 | 222 | 1208 | 0.913145222 | |
| 29 | 16,650,000 | 16,800,000 | 223 | 1200 | 0.440367188 | |
| 29 | 16,725,000 | 16,875,000 | 224 | 1349 | 0.518688836 | |
| 29 | 16,800,000 | 16,950,000 | 225 | 1451 | 0.772255956 | |
| 29 | 16,875,000 | 17,025,000 | 226 | 1349 | 0.836121129 | |
| 29 | 16,950,000 | 17,100,000 | 227 | 1084 | 0.40729816 | TENM4 |
| 29 | 17,025,000 | 17,175,000 | 228 | 908 | 0.276444347 | TENM4 |
| 29 | 17,100,000 | 17,250,000 | 229 | 964 | 0.811426698 | TENM4 |
| 29 | 17,175,000 | 17,325,000 | 230 | 1195 | 0.741232043 | TENM4 |
| 29 | 17,250,000 | 17,400,000 | 231 | 1463 | -0.339942346 | TENM4 |
| 29 | 17,325,000 | 17,475,000 | 232 | 1592 | -1.636618175 | TENM4 |
| 29 | 17,400,000 | 17,550,000 | 233 | 1375 | -1.163561684 | NARS2,TENM4,ENSBTAG00000040202 |
| 29 | 17,475,000 | 17,625,000 | 234 | 886 | -0.030888195 | NARS2,TENM4,ENSBTAG00000040202 |
| 29 | 17,550,000 | 17,700,000 | 235 | 571 | -0.547291219 | NARS2 |
| 29 | 17,625,000 | 17,775,000 | 236 | 682 | -0.653364688 | NARS2 |
| 29 | 17,700,000 | 17,850,000 | 237 | 799 | -0.281378758 | ENSBTAG00000002922 |
| 29 | 17,775,000 | 17,925,000 | 238 | 604 | 0.510841611 | USP35,ENSBTAG00000002922 |
| 29 | 17,850,000 | 18,000,000 | 239 | 334 | 0.420981721 | KCTD21,USP35,ENSBTAG00000002922 |
| 29 | 17,925,000 | 18,075,000 | 240 | 218 | 0.055783429 | ALG8,KCTD21,NDUFC2,USP35 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 29 | 18,000,000 | 18,150,000 | 241 | 231 | 0.63382878 | ALG8,INTS4,KCTD14,NDUFC2,THRSP |
| 29 | 18,075,000 | 18,225,000 | 242 | 254 | 0.877105629 | INTS4,KCTD14,NDUFC2,THRSP |
| 29 | 18,150,000 | 18,300,000 | 243 | 248 | 1.224448817 | AAMDC,INTS4,RSF1 |
| 29 | 18,225,000 | 18,375,000 | 244 | 273 | 1.108600828 | AAMDC,INTS4,RSF1 |
| 29 | 18,300,000 | 18,450,000 | 245 | 295 | 1.128430755 | CLNS1A,RSF1 |
| 29 | 18,375,000 | 18,525,000 | 246 | 273 | 0.242004832 | AQP11,CLNS1A,RSF1 |
| 29 | 18,450,000 | 18,600,000 | 247 | 334 | -1.865508583 | AQP11,CLNS1A |
| 29 | 18,525,000 | 18,675,000 | 248 | 377 | -3.6707308 | |
| 29 | 18,600,000 | 18,750,000 | 249 | 320 | -3.078266876 | PAK1 |
| 29 | 18,675,000 | 18,825,000 | 250 | 323 | 0.000637494 | PAK1 |
| 29 | 18,750,000 | 18,900,000 | 251 | 326 | 0.363500276 | PAK1 |
| 29 | 18,825,000 | 18,975,000 | 252 | 332 | 0.112035299 | |
| 29 | 18,900,000 | 19,050,000 | 253 | 449 | -1.376145141 | |
| 29 | 18,975,000 | 19,125,000 | 254 | 591 | -1.781239212 | ENSBTAG00000034536 |
| 29 | 19,050,000 | 19,200,000 | 255 | 628 | -1.199241866 | ENSBTAG00000034536 |
| 29 | 19,125,000 | 19,275,000 | 256 | 1023 | -0.596573043 | ENSBTAG00000034536 |
| 29 | 19,200,000 | 19,350,000 | 257 | 1463 | 0.043183309 | |
| 29 | 19,275,000 | 19,425,000 | 258 | 1260 | 0.593343889 | |
| 29 | 19,350,000 | 19,500,000 | 259 | 1007 | 0.816879045 | |
| 29 | 19,425,000 | 19,575,000 | 260 | 739 | 0.810376987 | |
| 29 | 19,500,000 | 19,650,000 | 261 | 529 | 1.038772946 | |
| 29 | 19,575,000 | 19,725,000 | 262 | 1033 | 0.57379327 | |
| 29 | 19,650,000 | 19,800,000 | 263 | 1720 | 0.014636361 | |
| 29 | 19,725,000 | 19,875,000 | 264 | 1695 | -0.992681549 | |
| 29 | 19,800,000 | 19,950,000 | 265 | 1346 | -1.981904032 | |
| 29 | 19,875,000 | 20,025,000 | 266 | 1213 | -0.652217311 | |
| 29 | 19,950,000 | 20,100,000 | 267 | 935 | -0.661343281 | |
| 29 | 20,025,000 | 20,175,000 | 268 | 636 | -1.541800311 | |
| 29 | 20,100,000 | 20,250,000 | 269 | 828 | 0.007128062 | |
| 29 | 20,175,000 | 20,325,000 | 270 | 1169 | -1.407486896 | MGC157332 |
| 29 | 20,250,000 | 20,400,000 | 271 | 923 | -1.7426607 | MGC157332 |
| 29 | 20,325,000 | 20,475,000 | 272 | 1000 | 0.11612843 | MGC157332 |
| 29 | 20,400,000 | 20,550,000 | 273 | 891 | 0.057056229 | MGC157332 |
| 29 | 20,475,000 | 20,625,000 | 274 | 720 | 0.572895025 | MGC157332 |
| 29 | 20,550,000 | 20,700,000 | 275 | 843 | 0.515786743 | MGC157332 |
| 29 | 20,625,000 | 20,775,000 | 276 | 503 | 0.540107322 | |
| 29 | 20,700,000 | 20,850,000 | 277 | 532 | 0.884203548 | |
| 29 | 20,775,000 | 20,925,000 | 278 | 840 | 0.803364789 | |
| 29 | 20,850,000 | 21,000,000 | 279 | 1366 | 0.726853749 | |
| 29 | 20,925,000 | 21,075,000 | 280 | 1648 | 0.761504563 | |
| 29 | 21,000,000 | 21,150,000 | 281 | 1704 | 0.257323931 | |
| 29 | 21,075,000 | 21,225,000 | 282 | 1465 | -0.156099664 | |
| 29 | 21,150,000 | 21,300,000 | 283 | 1251 | -1.133193376 | |
| 29 | 21,225,000 | 21,375,000 | 284 | 1142 | -2.049360292 | |
| 29 | 21,300,000 | 21,450,000 | 285 | 1019 | -1.316788869 | |
| 29 | 21,375,000 | 21,525,000 | 286 | 1002 | 0.198991124 | |
| 29 | 21,450,000 | 21,600,000 | 287 | 826 | 0.851171921 | |
| 29 | 21,525,000 | 21,675,000 | 288 | 850 | 0.933817639 | |
| 29 | 21,600,000 | 21,750,000 | 289 | 1066 | 0.482063144 | |
| 29 | 21,675,000 | 21,825,000 | 290 | 885 | 0.20062469 | |
| 29 | 21,750,000 | 21,900,000 | 291 | 635 | 0.157406645 | |
| 29 | 21,825,000 | 21,975,000 | 292 | 770 | 0.144207344 | |
| 29 | 21,900,000 | 22,050,000 | 293 | 834 | 0.510358863 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 29 | 21,975,000 | 22,125,000 | 294 | 853 | 0.678481598 | |
| 29 | 22,050,000 | 22,200,000 | 295 | 1127 | 0.52337105 | |
| 29 | 22,125,000 | 22,275,000 | 296 | 1054 | 0.71660705 | |
| 29 | 22,200,000 | 22,350,000 | 297 | 953 | 0.330761879 | GAS2 |
| 29 | 22,275,000 | 22,425,000 | 298 | 749 | 0.014142009 | GAS2 |
| 29 | 22,350,000 | 22,500,000 | 299 | 282 | 0.493958961 | FANCF,GAS2 |
| 29 | 22,425,000 | 22,575,000 | 300 | 584 | -0.473392084 | FANCF |
| 29 | 22,500,000 | 22,650,000 | 301 | 669 | -0.68676337 | |
| 29 | 22,575,000 | 22,725,000 | 302 | 674 | -0.280734497 | SLC17A6 |
| 29 | 22,650,000 | 22,800,000 | 303 | 605 | 0.189990736 | ANO5,SLC17A6 |
| 29 | 22,725,000 | 22,875,000 | 304 | 476 | 1.035684062 | ANO5,SLC17A6 |
| 29 | 22,800,000 | 22,950,000 | 305 | 1124 | 0.901402823 | ANO5 |
| 29 | 22,875,000 | 23,025,000 | 306 | 1745 | 0.903203851 | |
| 29 | 22,950,000 | 23,100,000 | 307 | 1933 | 0.771732903 | |
| 29 | 23,025,000 | 23,175,000 | 308 | 1892 | 0.549594796 | |
| 29 | 23,100,000 | 23,250,000 | 309 | 1464 | 0.74309562 | |
| 29 | 23,175,000 | 23,325,000 | 310 | 1378 | 0.753987172 | |
| 29 | 23,250,000 | 23,400,000 | 311 | 1711 | 0.056751335 | |
| 29 | 23,325,000 | 23,475,000 | 312 | 1883 | 0.140718124 | |
| 29 | 23,400,000 | 23,550,000 | 313 | 1782 | 0.463374003 | |
| 29 | 23,475,000 | 23,625,000 | 314 | 1736 | 0.369849972 | |
| 29 | 23,550,000 | 23,700,000 | 315 | 1730 | 0.470931811 | |
| 29 | 23,625,000 | 23,775,000 | 316 | 1423 | 0.101248354 | |
| 29 | 23,700,000 | 23,850,000 | 317 | 1190 | 0.400773903 | |
| 29 | 23,775,000 | 23,925,000 | 318 | 1175 | 0.677383818 | |
| 29 | 23,850,000 | 24,000,000 | 319 | 1135 | 0.619764403 | |
| 29 | 23,925,000 | 24,075,000 | 320 | 1095 | 0.884854288 | |
| 29 | 24,000,000 | 24,150,000 | 321 | 946 | 0.935155921 | |
| 29 | 24,075,000 | 24,225,000 | 322 | 718 | 0.561813279 | |
| 29 | 24,150,000 | 24,300,000 | 323 | 1263 | 0.220806034 | |
| 29 | 24,225,000 | 24,375,000 | 324 | 1210 | 0.358543435 | |
| 29 | 24,300,000 | 24,450,000 | 325 | 608 | 0.328850674 | |
| 29 | 24,375,000 | 24,525,000 | 326 | 756 | 0.124603671 | |
| 29 | 24,450,000 | 24,600,000 | 327 | 839 | 0.602252177 | SLC6A5 |
| 29 | 24,525,000 | 24,675,000 | 328 | 615 | 0.47523718 | SLC6A5 |
| 29 | 24,600,000 | 24,750,000 | 329 | 521 | 0.104968555 | PRMT3,SLC6A5 |
| 29 | 24,675,000 | 24,825,000 | 330 | 523 | 0.961443004 | HTATIP2,PRMT3 |
| 29 | 24,750,000 | 24,900,000 | 331 | 499 | 0.615232071 | HTATIP2,PRMT3,ENSBTAG00000008684 |
| 29 | 24,825,000 | 24,975,000 | 332 | 807 | 0.599968132 | ENSBTAG00000008684 |
| 29 | 24,900,000 | 25,050,000 | 333 | 1029 | 0.664965262 | DBX1,NAV2 |
| 29 | 24,975,000 | 25,125,000 | 334 | 955 | 0.45915208 | DBX1,NAV2 |
| 29 | 25,050,000 | 25,200,000 | 335 | 1048 | 0.859662562 | NAV2 |
| 29 | 25,125,000 | 25,275,000 | 336 | 947 | 0.683657727 | NAV2 |
| 29 | 25,200,000 | 25,350,000 | 337 | 751 | -0.124521808 | NAV2 |
| 29 | 25,275,000 | 25,425,000 | 338 | 629 | -0.24959022 | NAV2 |
| 29 | 25,350,000 | 25,500,000 | 339 | 902 | -2.096784302 | NAV2 |
| 29 | 25,425,000 | 25,575,000 | 340 | 1250 | -1.116294208 | |
| 29 | 25,500,000 | 25,650,000 | 341 | 848 | -0.266680551 | |
| 29 | 25,575,000 | 25,725,000 | 342 | 622 | -2.49612293 | |
| 29 | 25,650,000 | 25,800,000 | 343 | 862 | -1.932387511 | |
| 29 | 25,725,000 | 25,875,000 | 344 | 873 | 0.230742218 | |
| 29 | 25,800,000 | 25,950,000 | 345 | 833 | -0.03024576 | E2F8 |
| 29 | 25,875,000 | 26,025,000 | 346 | 706 | -0.415544312 | CSRP3,E2F8,ZDHHC13 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 25,950,000 | 26,100,000 | 347 | 524 | 0.14822396 | CSRP3,E2F8,ZDHHC13 |
| 29 | 26,025,000 | 26,175,000 | 348 | 566 | -0.083097652 | MRGPRX2,ZDHHC13 |
| 29 | 26,100,000 | 26,250,000 | 349 | 578 | -0.275253941 | MRGPRX2,PTPN5 |
| 29 | 26,175,000 | 26,325,000 | 350 | 482 | -0.10686416 | PTPN5,TMEM86A |
| 29 | 26,250,000 | 26,400,000 | 351 | 618 | 0.503414611 | PTPN5,SPTY2D1,TMEM86A,UEVLD |
| 29 | 26,325,000 | 26,475,000 | 352 | 723 | -0.196243528 | SPTY2D1,TSG101,UEVLD |
| 29 | 26,400,000 | 26,550,000 | 353 | 498 | -2.506874087 | LDHA,LDHC,TSG101,UEVLD |
| 29 | 26,475,000 | 26,625,000 | 354 | 371 | -2.178314402 | GTF2H1,HPS5,LDHA,LDHC,TSG101 |
| 29 | 26,550,000 | 26,700,000 | 355 | 612 | -1.34260585 | GTF2H1,HPS5,LDHA,SAA3,ENSBTAG00000022395 |
| 29 | 26,625,000 | 26,775,000 | 356 | 1080 | -0.367645908 | HPS5,M-SAA3.2,SAA1,SAA3,SAA4,ENSBTAG00000022395 |
| 29 | 26,700,000 | 26,850,000 | 357 | 1266 | 0.316446747 | M-SAA3.2,OR4D5,OR6M1,OR8D4,SAA1,SAA4 |
| 29 | 26,775,000 | 26,925,000 | 358 | 1121 | 0.521372876 | OR4D5,OR6M1,OR8D4,ENSBTAG00000038590,ENSBTAG0000046745,ENSBTAG00000047090,ENSBTAG00000048240 |
| 29 | 26,850,000 | 27,000,000 | 359 | 1165 | 0.831689896 | ENSBTAG00000038590,ENSBTAG00000046459,ENSBTAG0000046745,ENSBTAG00000047090,ENSBTAG00000048222,ENSBTAG00000048240 |
| 29 | 26,925,000 | 27,075,000 | 360 | 1502 | 0.551888043 | OR10G6,ENSBTAG00000046459,ENSBTAG00000047304,ENSBTAG00000047557,ENSBTAG00000048192,ENSBTAG0000048222 |
| 29 | 27,000,000 | 27,150,000 | 361 | 1503 | -0.491544909 | OR10G6,ENSBTAG00000047267,ENSBTAG00000047304,ENSBTAG00000047463,ENSBTAG00000047557,ENSBTAG0000048192 |
| 29 | 27,075,000 | 27,225,000 | 362 | 1364 | -1.312176106 | VWA5A,ENSBTAG00000022384,ENSBTAG00000039757,ENSBTAG00000047267,ENSBTAG00000047463,ENSBTAG0000047934 |
| 29 | 27,150,000 | 27,300,000 | 363 | 1590 | 0.211851987 | OR10D3,VWA5A,ENSBTAG00000022384,ENSBTAG00000039517,ENSBTAG00000039757,ENSBTAG00000047934,ENSBTAG00000048043 |
| 29 | 27,225,000 | 27,375,000 | 364 | 1696 | 0.574990963 | OR10D3,ENSBTAG00000005112,ENSBTAG00000039517,ENSBTAG00000046247,ENSBTAG00000047530,ENSBTAG0000048043 |
| 29 | 27,300,000 | 27,450,000 | 365 | 1589 | -0.71694867 | ENSBTAG00000005112,ENSBTAG00000039964,ENSBTAG0000046247,ENSBTAG00000046299,ENSBTAG00000047530 |
| 29 | 27,375,000 | 27,525,000 | 366 | 1833 | -1.28437981 | ENSBTAG00000039964,ENSBTAG00000040239,ENSBTAG0000046299 |
| 29 | 27,450,000 | 27,600,000 | 367 | 2327 | 0.459645297 | TMEM225,ENSBTAG00000040239 |
| 29 | 27,525,000 | 27,675,000 | 368 | 2244 | 0.719386267 | TMEM225,ENSBTAG00000047151,ENSBTAG00000047916 |
| 29 | 27,600,000 | 27,750,000 | 369 | 2146 | -0.250232396 | ENSBTAG00000017495,ENSBTAG00000046665,ENSBTAG0000047151,ENSBTAG00000047916 |
| 29 | 27,675,000 | 27,825,000 | 370 | 2135 | -2.225310352 | ENSBTAG00000017495,ENSBTAG00000035631,ENSBTAG0000037623,ENSBTAG00000040250,ENSBTAG00000046665 |
| 29 | 27,750,000 | 27,900,000 | 371 | 1765 | -3.03849496 | ENSBTAG00000035631,ENSBTAG00000037623,ENSBTAG0000040250,ENSBTAG00000046086,ENSBTAG00000047100,ENSBTAG00000047204,ENSBTAG00000047753,ENSBTAG00000047840 |
| 29 | 27,825,000 | 27,975,000 | 372 | 1658 | -1.182642401 | ENSBTAG00000046086,ENSBTAG00000046130,ENSBTAG0000047020,ENSBTAG00000047100,ENSBTAG00000047204,ENSBTAG00000047310,ENSBTAG00000047730,ENSBTAG00000047753,ENSBTAG00000047840 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 27,900,000 | 28,050,000 | 373 | 1662 | -1.333278439 | ENSBTAG00000046130,ENSBTAG00000047020,ENSBTAG0000047310,ENSBTAG00000047730 |
| 29 | 27,975,000 | 28,125,000 | 374 | 1112 | -1.810801415 | ENSBTAG00000005199,ENSBTAG00000006629,ENSBTAG0000014305,ENSBTAG00000037467 |
| 29 | 28,050,000 | 28,200,000 | 375 | 691 | -1.555238707 | OR8B8,ENSBTAG00000005199,ENSBTAG00000006629,ENSBTAG00000014305,ENSBTAG00000033480,ENSBTAG0000037467 |
| 29 | 28,125,000 | 28,275,000 | 376 | 911 | -0.320063111 | OR8B8,ENSBTAG00000033480,ENSBTAG00000046410,ENSBTAG00000047716,ENSBTAG00000048018 |
| 29 | 28,200,000 | 28,350,000 | 377 | 1131 | 0.403208208 | ENSBTAG00000022376,ENSBTAG00000022378,ENSBTAG0000033476,ENSBTAG00000033477,ENSBTAG00000038182,ENSBTAG00000039676,ENSBTAG00000046410,ENSBTAG00000047716,ENSBTAG00000048018 |
| 29 | 28,275,000 | 28,425,000 | 378 | 984 | 0.433515539 | ENSBTAG00000022376,ENSBTAG00000022378,ENSBTAG0000024769,ENSBTAG00000033476,ENSBTAG00000033477,ENSBTAG00000038182,ENSBTAG00000039676,ENSBTAG00000040090 |
| 29 | 28,350,000 | 28,500,000 | 379 | 884 | 0.418938199 | PANX3,SIAE,TBRG1,ENSBTAG00000024769,ENSBTAG0000033476,ENSBTAG00000040090 |
| 29 | 28,425,000 | 28,575,000 | 380 | 1049 | 0.270820217 | PANX3,SIAE,SPA17,TBRG1 |
| 29 | 28,500,000 | 28,650,000 | 381 | 991 | -0.374110365 | ESAM,MSANTD2,NRGN,SIAE,SPA17,VSIG2 |
| 29 | 28,575,000 | 28,725,000 | 382 | 830 | -0.558012833 | ESAM,MSANTD2,NRGN,ROBO3,ROBO4,VSIG2 |
| 29 | 28,650,000 | 28,800,000 | 383 | 778 | -1.22580538 | CCDC15,HEPACAM,ROBO3,ROBO4 |
| 29 | 28,725,000 | 28,875,000 | 384 | 607 | -1.26964752 | CCDC15,HEPACAM,ROBO4,SLC37A2 |
| 29 | 28,800,000 | 28,950,000 | 385 | 487 | 0.855393 | CCDC15,SLC37A2,TMEM218 |
| 29 | 28,875,000 | 29,025,000 | 386 | 799 | 1.01080894 | SLC37A2,TMEM218 |
| 29 | 28,950,000 | 29,100,000 | 387 | 869 | 0.900406972 | |
| 29 | 29,025,000 | 29,175,000 | 388 | 789 | 0.834344063 | |
| 29 | 29,100,000 | 29,250,000 | 389 | 886 | 0.727654602 | PKNOX2 |
| 29 | 29,175,000 | 29,325,000 | 390 | 1218 | 0.673882066 | FEZ1,PKNOX2 |
| 29 | 29,250,000 | 29,400,000 | 391 | 1121 | 0.287473534 | EI24,FEZ1,PKNOX2,STT3A |
| 29 | 29,325,000 | 29,475,000 | 392 | 916 | -0.020173123 | ACRV1,CHEK1,EI24,SSLP1,STT3A |
| 29 | 29,400,000 | 29,550,000 | 393 | 1314 | 0.543722722 | ACRV1,CHEK1,SSLP1,ENSBTAG00000023300,ENSBTAG0000023301 |
| 29 | 29,475,000 | 29,625,000 | 394 | 961 | 0.603052036 | HYLS1,PATE2,PUS3,ENSBTAG00000023300,ENSBTAG0000023301,ENSBTAG00000033377 |
| 29 | 29,550,000 | 29,700,000 | 395 | 385 | 0.390859738 | CDON,DDX25,HYLS1,PATE2,PUS3,ENSBTAG00000033377 |
| 29 | 29,625,000 | 29,775,000 | 396 | 891 | 0.60689902 | CDON,DDX25,HYLS1 |
| 29 | 29,700,000 | 29,850,000 | 397 | 1174 | 0.785581519 | CDON |
| 29 | 29,775,000 | 29,925,000 | 398 | 937 | 0.772482292 | RPUSD4 |
| 29 | 29,850,000 | 30,000,000 | 399 | 758 | -0.525739155 | FAM118B,FOXRED1,RPUSD4,SRPR,ENSBTAG00000048137 |
| 29 | 29,925,000 | 30,075,000 | 400 | 639 | -5.429506402 | DCPS,FAM118B,FOXRED1,RPUSD4,SRPR,ST3GAL-IV,TIRAP,ENSBTAG00000048137 |
| 29 | 30,000,000 | 30,150,000 | 401 | 843 | -1.536991571 | DCPS,KIRREL3,ST3GAL-IV,TIRAP |
| 29 | 30,075,000 | 30,225,000 | 402 | 824 | 0.651863471 | KIRREL3,ST3GAL-IV |
| 29 | 30,150,000 | 30,300,000 | 403 | 331 | 0.729746215 | KIRREL3 |
| 29 | 30,225,000 | 30,375,000 | 404 | 6 | -0.240785023 | |
| 29 | 30,300,000 | 30,450,000 | 405 | 462 | 0.986307492 | |
| 29 | 30,375,000 | 30,525,000 | 406 | 941 | -0.551417467 | |
| 29 | 30,450,000 | 30,600,000 | 407 | 838 | -0.713815752 | |
| 29 | 30,525,000 | 30,675,000 | 408 | 1000 | 0.227664592 | |
| 29 | 30,600,000 | 30,750,000 | 409 | 932 | 0.278324627 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 29 | 30,675,000 | 30,825,000 | 410 | 843 | 0.453692914 | |
| 29 | 30,750,000 | 30,900,000 | 411 | 920 | 0.30597239 | |
| 29 | 30,825,000 | 30,975,000 | 412 | 626 | 0.278289087 | |
| 29 | 30,900,000 | 31,050,000 | 413 | 442 | 0.038843578 | |
| 29 | 30,975,000 | 31,125,000 | 414 | 453 | -0.484931532 | |
| 29 | 31,050,000 | 31,200,000 | 415 | 740 | -1.181524723 | |
| 29 | 31,125,000 | 31,275,000 | 416 | 854 | -1.338605758 | |
| 29 | 31,200,000 | 31,350,000 | 417 | 925 | -1.559877114 | |
| 29 | 31,275,000 | 31,425,000 | 418 | 1148 | -0.734153828 | |
| 29 | 31,350,000 | 31,500,000 | 419 | 1208 | 0.036282569 | |
| 29 | 31,425,000 | 31,575,000 | 420 | 1065 | -0.337674776 | |
| 29 | 31,500,000 | 31,650,000 | 421 | 949 | 0.264651415 | |
| 29 | 31,575,000 | 31,725,000 | 422 | 1017 | 0.748544398 | |
| 29 | 31,650,000 | 31,800,000 | 423 | 762 | 0.530902002 | |
| 29 | 31,725,000 | 31,875,000 | 424 | 708 | 0.330059757 | |
| 29 | 31,800,000 | 31,950,000 | 425 | 946 | 0.301871396 | |
| 29 | 31,875,000 | 32,025,000 | 426 | 981 | 0.308309769 | |
| 29 | 31,950,000 | 32,100,000 | 427 | 789 | 0.594173808 | |
| 29 | 32,025,000 | 32,175,000 | 428 | 798 | 0.879216152 | |
| 29 | 32,100,000 | 32,250,000 | 429 | 725 | 0.381971477 | |
| 29 | 32,175,000 | 32,325,000 | 430 | 448 | -0.898299382 | |
| 29 | 32,250,000 | 32,400,000 | 431 | 543 | 0.369575313 | ETS1 |
| 29 | 32,325,000 | 32,475,000 | 432 | 513 | 0.995198885 | ETS1 |
| 29 | 32,400,000 | 32,550,000 | 433 | 830 | -0.223361405 | ETS1 |
| 29 | 32,475,000 | 32,625,000 | 434 | 971 | -0.378344125 | |
| 29 | 32,550,000 | 32,700,000 | 435 | 618 | 0.417392158 | FLI1 |
| 29 | 32,625,000 | 32,775,000 | 436 | 659 | 0.309517244 | FLI1,KCNJ1 |
| 29 | 32,700,000 | 32,850,000 | 437 | 1070 | -0.129036179 | FLI1,KCNJ1,KCNJ5 |
| 29 | 32,775,000 | 32,925,000 | 438 | 1180 | -0.130437326 | ARHGAP32,KCNJ1,KCNJ5 |
| 29 | 32,850,000 | 33,000,000 | 439 | 949 | 0.595933739 | ARHGAP32 |
| 29 | 32,925,000 | 33,075,000 | 440 | 674 | 0.918024479 | ARHGAP32 |
| 29 | 33,000,000 | 33,150,000 | 441 | 540 | 1.06659421 | ARHGAP32 |
| 29 | 33,075,000 | 33,225,000 | 442 | 568 | 1.022777967 | |
| 29 | 33,150,000 | 33,300,000 | 443 | 538 | 0.720373562 | BARX2 |
| 29 | 33,225,000 | 33,375,000 | 444 | 549 | -0.384423769 | BARX2 |
| 29 | 33,300,000 | 33,450,000 | 445 | 691 | -0.60736327 | |
| 29 | 33,375,000 | 33,525,000 | 446 | 1074 | 0.345055419 | |
| 29 | 33,450,000 | 33,600,000 | 447 | 1286 | 0.310519704 | JAM3 |
| 29 | 33,525,000 | 33,675,000 | 448 | 975 | -0.023380709 | JAM3 |
| 29 | 33,600,000 | 33,750,000 | 449 | 497 | -0.276896424 | IGSF9B |
| 29 | 33,675,000 | 33,825,000 | 450 | 413 | -0.412795718 | IGSF9B,SPATA19 |
| 29 | 33,750,000 | 33,900,000 | 451 | 523 | -0.504118493 | SPATA19 |
| 29 | 33,825,000 | 33,975,000 | 452 | 585 | -0.069596847 | |
| 29 | 33,900,000 | 34,050,000 | 453 | 1035 | -0.408721212 | |
| 29 | 33,975,000 | 34,125,000 | 454 | 1313 | -0.608886099 | |
| 29 | 34,050,000 | 34,200,000 | 455 | 1133 | -0.44652646 | |
| 29 | 34,125,000 | 34,275,000 | 456 | 1001 | -0.50011802 | |
| 29 | 34,200,000 | 34,350,000 | 457 | 892 | -0.553443826 | |
| 29 | 34,275,000 | 34,425,000 | 458 | 788 | 0.230325822 | |
| 29 | 34,350,000 | 34,500,000 | 459 | 912 | 0.315513207 | |
| 29 | 34,425,000 | 34,575,000 | 460 | 869 | -0.054747817 | OPCML |
| 29 | 34,500,000 | 34,650,000 | 461 | 539 | 0.030286512 | OPCML |
| 29 | 34,575,000 | 34,725,000 | 462 | 729 | -0.98702541 | OPCML |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 34,650,000 | 34,800,000 | 463 | 1011 | -1.456152188 | OPCML |
| 29 | 34,725,000 | 34,875,000 | 464 | 1174 | -0.250981654 | OPCML |
| 29 | 34,800,000 | 34,950,000 | 465 | 1060 | 0.757745559 | OPCML |
| 29 | 34,875,000 | 35,025,000 | 466 | 1283 | 0.728309102 | OPCML |
| 29 | 34,950,000 | 35,100,000 | 467 | 1732 | 0.683057423 | OPCML,ENSBTAG00000033030 |
| 29 | 35,025,000 | 35,175,000 | 468 | 1327 | 0.818722976 | NTM,OPCML,ENSBTAG00000033030 |
| 29 | 35,100,000 | 35,250,000 | 469 | 1066 | 0.985020743 | NTM |
| 29 | 35,175,000 | 35,325,000 | 470 | 1566 | 0.57724304 | NTM |
| 29 | 35,250,000 | 35,400,000 | 471 | 1677 | 0.454090123 | NTM |
| 29 | 35,325,000 | 35,475,000 | 472 | 1524 | 0.640521563 | NTM |
| 29 | 35,400,000 | 35,550,000 | 473 | 1299 | 0.767601576 | NTM |
| 29 | 35,475,000 | 35,625,000 | 474 | 628 | 0.665184804 | NTM |
| 29 | 35,550,000 | 35,700,000 | 475 | 538 | 0.57608834 | NTM |
| 29 | 35,625,000 | 35,775,000 | 476 | 1030 | 0.904630575 | |
| 29 | 35,700,000 | 35,850,000 | 477 | 1012 | 1.004504897 | |
| 29 | 35,775,000 | 35,925,000 | 478 | 784 | 1.111360203 | |
| 29 | 35,850,000 | 36,000,000 | 479 | 648 | 1.036968413 | |
| 29 | 35,925,000 | 36,075,000 | 480 | 621 | 0.49961045 | |
| 29 | 36,000,000 | 36,150,000 | 481 | 939 | -0.659228262 | |
| 29 | 36,075,000 | 36,225,000 | 482 | 1202 | -1.133747803 | |
| 29 | 36,150,000 | 36,300,000 | 483 | 1086 | -0.028391162 | |
| 29 | 36,225,000 | 36,375,000 | 484 | 786 | -0.914612902 | |
| 29 | 36,300,000 | 36,450,000 | 485 | 763 | -1.437911783 | |
| 29 | 36,375,000 | 36,525,000 | 486 | 933 | 0.043688177 | |
| 29 | 36,450,000 | 36,600,000 | 487 | 1339 | 0.092504823 | |
| 29 | 36,525,000 | 36,675,000 | 488 | 1172 | -0.114134281 | NFRKB,TMEM45B |
| 29 | 36,600,000 | 36,750,000 | 489 | 781 | 0.122277724 | NFRKB,PRDM10,TMEM45B |
| 29 | 36,675,000 | 36,825,000 | 490 | 837 | -0.15527986 | NFRKB,PRDM10,ZNF740 |
| 29 | 36,750,000 | 36,900,000 | 491 | 934 | -0.26829869 | APLP2,ZNF740 |
| 29 | 36,825,000 | 36,975,000 | 492 | 1040 | 0.556021441 | APLP2,ST14,ENSBTAG00000033237 |
| 29 | 36,900,000 | 37,050,000 | 493 | 724 | 0.628357678 | APLP2,ST14,ZBTB44,ENSBTAG00000033237 |
| 29 | 36,975,000 | 37,125,000 | 494 | 457 | 0.775950838 | ADAMTS8,ZBTB44 |
| 29 | 37,050,000 | 37,200,000 | 495 | 553 | 1.012007589 | ADAMTS15,ADAMTS8 |
| 29 | 37,125,000 | 37,275,000 | 496 | 600 | 0.870171559 | ADAMTS15 |
| 29 | 37,200,000 | 37,350,000 | 497 | 492 | 1.000187876 | |
| 29 | 37,275,000 | 37,425,000 | 498 | 304 | 1.052336718 | |
| 29 | 37,350,000 | 37,500,000 | 499 | 647 | 0.145586977 | ENSBTAG00000046647 |
| 29 | 37,425,000 | 37,575,000 | 500 | 1273 | 0.179299058 | SNX19,ENSBTAG00000046647 |
| 29 | 37,500,000 | 37,650,000 | 501 | 1310 | 0.414691064 | MS4A8B,SNX19 |
| 29 | 37,575,000 | 37,725,000 | 502 | 891 | 0.319738246 | MS4A10,MS4A15,MS4A18,MS4A8B |
| 29 | 37,650,000 | 37,800,000 | 503 | 700 | -0.317611777 | MS4A10,MS4A15,MS4A18,MS4A8B,PTGDR2,ENSBTAG000014215 |
| 29 | 37,725,000 | 37,875,000 | 504 | 692 | -0.549287318 | MS4A10,PRPF19,PTGDR2,SLC15A3,TMEM109,TMEM132A,ENSBTAG00000014215 |
| 29 | 37,800,000 | 37,950,000 | 505 | 1029 | 0.229098369 | CD6,PRPF19,SLC15A3,TMEM109,TMEM132A |
| 29 | 37,875,000 | 38,025,000 | 506 | 1024 | 0.402481251 | CD5,CD6 |
| 29 | 37,950,000 | 38,100,000 | 507 | 619 | -0.477296065 | CD5,VPS37C |
| 29 | 38,025,000 | 38,175,000 | 508 | 632 | -0.592338652 | CD5,PAG10,PAG2,VPS37C |
| 29 | 38,100,000 | 38,250,000 | 509 | 717 | -0.255098086 | PAG10,PAG12,PAG2 |
| 29 | 38,175,000 | 38,325,000 | 510 | 781 | 0.148409738 | PAG12,ENSBTAG00000024611,ENSBTAG00000045802,ENSBTAG00000048298 |

| | | | | | | |
|----|------------|------------|-----|------|-------------|---|
| 29 | 38,250,000 | 38,400,000 | 511 | 1269 | 0.730426041 | ENSBTAG00000024611,ENSBTAG00000045802,ENSBTAG0000046127,ENSBTAG00000047145,ENSBTAG00000048298 |
| 29 | 38,325,000 | 38,475,000 | 512 | 1714 | 0.691554041 | PAG-18,ENSBTAG00000045802,ENSBTAG00000046127,ENSBTAG00000047145 |
| 29 | 38,400,000 | 38,550,000 | 513 | 1406 | 0.320013913 | PAG-18,PAG7,ENSBTAG00000047145 |
| 29 | 38,475,000 | 38,625,000 | 514 | 1690 | 0.895190002 | PAG7,ENSBTAG00000007849,ENSBTAG00000045670 |
| 29 | 38,550,000 | 38,700,000 | 515 | 2107 | 1.215294681 | PAG-15,PAG7,ENSBTAG00000007849,ENSBTAG00000045670 |
| 29 | 38,625,000 | 38,775,000 | 516 | 1572 | 1.096792649 | PAG-15,ENSBTAG00000046038 |
| 29 | 38,700,000 | 38,850,000 | 517 | 1256 | 1.191680298 | PAG4,ENSBTAG00000040140,ENSBTAG00000046038 |
| 29 | 38,775,000 | 38,925,000 | 518 | 1374 | 1.259286793 | PAG4,ENSBTAG00000040140,ENSBTAG00000046497,ENSBTAG00000047989 |
| 29 | 38,850,000 | 39,000,000 | 519 | 1104 | 1.28162314 | ENSBTAG00000039045,ENSBTAG00000039970,ENSBTAG0000046497,ENSBTAG00000047989 |
| 29 | 38,925,000 | 39,075,000 | 520 | 911 | 1.117009009 | PAG-21,PAG20,ENSBTAG00000039045,ENSBTAG00000039970,ENSBTAG00000047989 |
| 29 | 39,000,000 | 39,150,000 | 521 | 1512 | 1.018901319 | PAG-21,PAG20,ENSBTAG00000047758 |
| 29 | 39,075,000 | 39,225,000 | 522 | 1481 | 1.011110172 | PAG1,ENSBTAG00000047758,ENSBTAG00000048202 |
| 29 | 39,150,000 | 39,300,000 | 523 | 1260 | 1.142577851 | PAG1,PAG19,ENSBTAG00000048202 |
| 29 | 39,225,000 | 39,375,000 | 524 | 1233 | 0.987582234 | PAG19,ENSBTAG00000034244,ENSBTAG00000047419,ENSBTAG00000048202 |
| 29 | 39,300,000 | 39,450,000 | 525 | 946 | 0.694121154 | ENSBTAG00000034244,ENSBTAG00000047419,ENSBTAG0000048073 |
| 29 | 39,375,000 | 39,525,000 | 526 | 1122 | 0.73516013 | MGC157408,ENSBTAG00000047419,ENSBTAG00000048073 |
| 29 | 39,450,000 | 39,600,000 | 527 | 1266 | 0.87293063 | MGC157408,ENSBTAG00000035736,ENSBTAG00000038918 |
| 29 | 39,525,000 | 39,675,000 | 528 | 1265 | 1.016016924 | PAG17,ENSBTAG00000035736,ENSBTAG00000038918,ENSBTAG00000046085 |
| 29 | 39,600,000 | 39,750,000 | 529 | 1753 | 0.912942984 | MGC157405,PAG17,ENSBTAG00000038918,ENSBTAG0000046085,ENSBTAG00000046686 |
| 29 | 39,675,000 | 39,825,000 | 530 | 1800 | 0.639560299 | MGC157405,ENSBTAG00000038506,ENSBTAG00000046686 |
| 29 | 39,750,000 | 39,900,000 | 531 | 1360 | 0.598508625 | PAG9,ENSBTAG00000003236,ENSBTAG00000038506,ENSBTAG00000048190 |
| 29 | 39,825,000 | 39,975,000 | 532 | 1310 | 0.421496148 | HRASLS5,PAG9,ENSBTAG00000003236,ENSBTAG00000048190 |
| 29 | 39,900,000 | 40,050,000 | 533 | 1223 | 0.240414133 | HRASLS5,ENSBTAG00000003236,ENSBTAG00000022348,ENSBTAG00000047172 |
| 29 | 39,975,000 | 40,125,000 | 534 | 1173 | 0.946255684 | PAG6,ENSBTAG00000022348,ENSBTAG00000046870,ENSBTAG00000047172 |
| 29 | 40,050,000 | 40,200,000 | 535 | 1250 | 1.212545258 | PAG6,ENSBTAG00000022759,ENSBTAG00000046870 |
| 29 | 40,125,000 | 40,275,000 | 536 | 1242 | 1.122532272 | ENSBTAG00000013214,ENSBTAG00000022759 |
| 29 | 40,200,000 | 40,350,000 | 537 | 1341 | 0.574087612 | ENSBTAG00000013214,ENSBTAG00000040257 |
| 29 | 40,275,000 | 40,425,000 | 538 | 1271 | 0.321985274 | ENSBTAG00000019226,ENSBTAG00000040257 |
| 29 | 40,350,000 | 40,500,000 | 539 | 831 | 0.143404972 | PGA,VWCE,ENSBTAG00000019226 |
| 29 | 40,425,000 | 40,575,000 | 540 | 498 | 0.065944168 | CYB561A3,DAK,DDB1,PGA,TMEM138,VWCE,ENSBTAG0000019226 |
| 29 | 40,500,000 | 40,650,000 | 541 | 369 | 0.705568449 | CPSF7,CYB561A3,DAK,DDB1,PPP1R32,SDHAF2,TMEM138,TMEM216,VWCE |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 40,575,000 | 40,725,000 | 542 | 328 | 0.798730973 | CPSF7,LRRC10B,PPP1R32,SDHAF2,SYT7,TMEM216 |
| 29 | 40,650,000 | 40,800,000 | 543 | 418 | -0.214057534 | LRRC10B,PPP1R32,SYT7 |
| 29 | 40,725,000 | 40,875,000 | 544 | 499 | -0.96363394 | DAGLA |
| 29 | 40,800,000 | 40,950,000 | 545 | 393 | -0.431861818 | DAGLA,FADS1,FEN1,MYRF,TMEM258 |
| 29 | 40,875,000 | 41,025,000 | 546 | 476 | 0.124955649 | DAGLA,FADS1,FEN1,MYRF,TMEM258 |
| 29 | 40,950,000 | 41,100,000 | 547 | 724 | 0.205237573 | FADS1,FADS2,FADS3 |
| 29 | 41,025,000 | 41,175,000 | 548 | 815 | 0.331265339 | BEST1,FADS2,FADS3,FTH1,RAB3IL1 |
| 29 | 41,100,000 | 41,250,000 | 549 | 921 | -0.144682316 | BEST1,FADS3,FTH1,RAB3IL1 |
| 29 | 41,175,000 | 41,325,000 | 550 | 1115 | -1.222965221 | FTH1 |
| 29 | 41,250,000 | 41,400,000 | 551 | 1194 | -0.42905117 | SCGB1D,SCGB2A2 |
| 29 | 41,325,000 | 41,475,000 | 552 | 797 | 0.45752191 | ASRGL1,SCGB1D,SCGB2A2 |
| 29 | 41,400,000 | 41,550,000 | 553 | 442 | -0.471094881 | ASRGL1,SCGB1A1,SCGB2A2 |
| 29 | 41,475,000 | 41,625,000 | 554 | 621 | 0.0285433 | AHNAK,EEF1G,SCGB1A1 |
| 29 | 41,550,000 | 41,700,000 | 555 | 550 | 0.5512502 | AHNAK,B3GAT3,EEF1G,EML3,GANAB,KIAA1698,METTL12, MGC134282,MTA2,ROM1,TUT1,UQCC3 |
| 29 | 41,625,000 | 41,775,000 | 556 | 644 | 0.003336408 | B3GAT3,BSCL2,EML3,GANAB,GNG3,HNRNPUL2,KIAA1698, LRRN4CL,METTL12,MGC134282,MTA2,ROM1,TTC9C,TUT1, UBXN1,UQCC3,ZBTB3 |
| 29 | 41,700,000 | 41,850,000 | 557 | 674 | 0.005811526 | BSCL2,GNG3,HNRNPUL2,LRRN4CL,NXF1,POLR2G,STX5,TA F6L,TMEM179B,TMEM223,TTC9C,UBXN1,WDR74,ZBTB3 |
| 29 | 41,775,000 | 41,925,000 | 558 | 521 | 0.019124451 | CHRM1,NXF1,POLR2G,SLC3A2,STX5,TAF6L,TMEM179B,TM EM223,WDR74 |
| 29 | 41,850,000 | 42,000,000 | 559 | 458 | -0.073812652 | CHRM1,SLC22A6,SLC3A2,ENSBTAG00000047110 |
| 29 | 41,925,000 | 42,075,000 | 560 | 278 | -0.92816825 | OAT3,SLC22A6,ENSBTAG0000000518,ENSBTAG0000004 7110 |
| 29 | 42,000,000 | 42,150,000 | 561 | 269 | -0.581840286 | OAT3,ENSBTAG0000000518,ENSBTAG00000037570 |
| 29 | 42,075,000 | 42,225,000 | 562 | 321 | 0.668352971 | ENSBTAG0000000518,ENSBTAG00000037570 |
| 29 | 42,150,000 | 42,300,000 | 563 | 376 | 0.284638225 | ENSBTAG00000014584,ENSBTAG00000037570,ENSBTAG0 0000038655 |
| 29 | 42,225,000 | 42,375,000 | 564 | 663 | 0.604648481 | ENSBTAG00000014584,ENSBTAG00000038655,ENSBTAG0 0000039463 |
| 29 | 42,300,000 | 42,450,000 | 565 | 681 | 0.97894937 | LGALS12,ENSBTAG00000014584,ENSBTAG00000037645,E NSBTAG00000039463,ENSBTAG00000039511 |
| 29 | 42,375,000 | 42,525,000 | 566 | 924 | 1.129667061 | LGALS12,ENSBTAG00000011019,ENSBTAG00000037645,E NSBTAG00000039511 |
| 29 | 42,450,000 | 42,600,000 | 567 | 1192 | -0.177468871 | PLA2G16,ENSBTAG00000011019,ENSBTAG00000037645 |
| 29 | 42,525,000 | 42,675,000 | 568 | 770 | -1.58268281 | ATL3,PLA2G16,RTN3 |
| 29 | 42,600,000 | 42,750,000 | 569 | 520 | -0.409849356 | ATL3,C11orf95,PLA2G16,RTN3,ENSBTAG00000045971 |
| 29 | 42,675,000 | 42,825,000 | 570 | 417 | -1.883738985 | C11orf95,C29H11orf84,RTN3,ENSBTAG00000045971 |
| 29 | 42,750,000 | 42,900,000 | 571 | 347 | -2.367236187 | C29H11orf84,MACROD1,MARK2,OTUB1,RCOR2,RTN3 |
| 29 | 42,825,000 | 42,975,000 | 572 | 391 | -0.834726392 | MACROD1,MARK2,OTUB1,RCOR2 |
| 29 | 42,900,000 | 43,050,000 | 573 | 514 | -0.826660413 | FLRT1,MACROD1,NAT11,ENSBTAG00000006386 |
| 29 | 42,975,000 | 43,125,000 | 574 | 674 | 0.085899448 | FLRT1,MACROD1,NAT11,STIP1,ENSBTAG00000006386 BAD,DNAJC4,FERMT3,FKBP2,FLRT1,MACROD1,NUDT22,PL CB3,STIP1,TRPT1,VEGFB,ENSBTAG00000016551,ENSBTAG 00000047265 |
| 29 | 43,050,000 | 43,200,000 | 575 | 655 | 0.440115072 | BAD,CCDC88B,DNAJC4,ESRRA,FERMT3,FKBP2,GPR137,KC NK4,NUDT22,PLCB3,PRDX5,RPS6KA4,TRMT112,TRPT1,VEG FB,ENSBTAG00000016551,ENSBTAG00000047265 |
| 29 | 43,125,000 | 43,275,000 | 576 | 539 | 0.533329721 | BAD,CCDC88B,ESRRA,GPR137,KCNK4,PRDX5,RPS6KA4,TR MT112 |
| 29 | 43,200,000 | 43,350,000 | 577 | 792 | 0.649246802 | RPS6KA4,SLC22A11 |
| 29 | 43,275,000 | 43,425,000 | 578 | 863 | 0.071952844 | RPS6KA4,SLC22A11 |
| 29 | 43,350,000 | 43,500,000 | 579 | 544 | -1.114577771 | NRXN2,SLC22A11,SLC22A12 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---|
| 29 | 43,425,000 | 43,575,000 | 580 | 295 | -2.497539154 | NRXN2,SLC22A11,SLC22A12 |
| 29 | 43,500,000 | 43,650,000 | 581 | 232 | -1.561400144 | MAP4K2,NRXN2,PYGM,RASGRP2,SF1 |
| 29 | 43,575,000 | 43,725,000 | 582 | 345 | 0.149106584 | CDC42BPG,EHD1,MAP4K2,MEN1,NRXN2,PYGM,RASGRP2,SF1 |
| 29 | 43,650,000 | 43,800,000 | 583 | 412 | -0.106941141 | ATG2A,C11orf85,CDC42BPG,EHD1,GPHA2,MAP4K2,MEN1,PPP2R5B |
| 29 | 43,725,000 | 43,875,000 | 584 | 434 | 0.13080869 | ARL2,ATG2A,BATF2,C11orf85,GPHA2,PPP2R5B |
| 29 | 43,800,000 | 43,950,000 | 585 | 399 | 0.803848941 | ARL2,BATF2,C11orf85,CDCA5,NAALADL1,SAC3D1,SNX15 |
| 29 | 43,875,000 | 44,025,000 | 586 | 442 | 0.925922906 | CDCA5,FAU,MRPL49,NAALADL1,SAC3D1,SNX15,SYVN1,TM7SF2,VPS51,ZFPL1,ZNHIT2 |
| 29 | 43,950,000 | 44,100,000 | 587 | 597 | 0.540001603 | CAPN1,CDCA5,FAU,MRPL49,SPDYC,SYVN1,TM7SF2,VPS51,ZFPL1,ZNHIT2,ENSBTAG00000010233 |
| 29 | 44,025,000 | 44,175,000 | 588 | 813 | -0.092731979 | CAPN1,POLA2,SPDYC,ENSBTAG00000010233 |
| 29 | 44,100,000 | 44,250,000 | 589 | 851 | -1.938914306 | CDC42EP2,DPF2,FRMD8,POLA2,SLC25A45,TIGD3,ENSBTAG00000010233 |
| 29 | 44,175,000 | 44,325,000 | 590 | 708 | -1.967567754 | CDC42EP2,DPF2,FRMD8,SLC25A45,TIGD3 |
| 29 | 44,250,000 | 44,400,000 | 591 | 626 | -0.464965087 | FRMD8,LTBP3,SCYL1 |
| 29 | 44,325,000 | 44,475,000 | 592 | 390 | -0.241582775 | EHBP1L1,KCNK7,LTBP3,MAP3K11,MGC140823,PCNXL3,SCYL1,SSSCA1 |
| 29 | 44,400,000 | 44,550,000 | 593 | 292 | 1.000693407 | EHBP1L1,KAT5,KCNK7,LTBP3,MAP3K11,MGC140823,PCNXL3,RELA,SIPA1,SSSCA1 |
| 29 | 44,475,000 | 44,625,000 | 594 | 441 | 0.513866875 | AP5B1,KAT5,OVOL1,PCNXL3,RELA,RNASEH2C,SIPA1,ENSBTAG00000046150,ENSBTAG00000047811 |
| 29 | 44,550,000 | 44,700,000 | 595 | 360 | -0.646146625 | AP5B1,C29H11orf68,CCDC85B,CFL1,CTSW,DRAP1,EFEMP2,FIBP,FOSL1,KAT5,MUS81,OVOL1,RNASEH2C,SNX32,ENSBTAG00000046150,ENSBTAG00000047811 |
| 29 | 44,625,000 | 44,775,000 | 596 | 336 | -0.327243715 | BANF1,C29H11orf68,CATSPER1,CCDC85B,CFL1,CST6,CTSW,DRAP1,EFEMP2,EIF1AD,FIBP,FOSL1,MUS81,SART1,SNX32,TSGA10IP,ENSBTAG00000046587 |
| 29 | 44,700,000 | 44,850,000 | 597 | 380 | 0.809417237 | BANF1,CATSPER1,CST6,EIF1AD,GAL3ST3,SART1,SF3B2,TSGA10IP,ENSBTAG00000046587 |
| 29 | 44,775,000 | 44,925,000 | 598 | 336 | -0.479225068 | CATSPER1,GAL3ST3,PACS1,SF3B2 |
| 29 | 44,850,000 | 45,000,000 | 599 | 351 | -1.047695208 | KLC2,PACS1,RAB1B,TMEM151A,YIF1A |
| 29 | 44,925,000 | 45,075,000 | 600 | 315 | -0.467428698 | B3GNT1,BRMS1,CD248,KLC2,PACS1,RAB1B,RIN1,SLC29A2,TMEM151A,YIF1A |
| 29 | 45,000,000 | 45,150,000 | 601 | 313 | 0.027156135 | B3GNT1,BRMS1,CD248,MRPL11,NPAS4,RIN1,SLC29A2 |
| 29 | 45,075,000 | 45,225,000 | 602 | 295 | -0.85432319 | DPP3,MRPL11,NPAS4,PELI3,ZDHHC24,ENSBTAG00000020147 |
| 29 | 45,150,000 | 45,300,000 | 603 | 284 | -2.09398589 | ACTN3,CCDC87,CCS,CTSF,DPP3,PELI3,RBM14,ZDHHC24,ENSBTAG00000020147 |
| 29 | 45,225,000 | 45,375,000 | 604 | 410 | -0.755777093 | ACTN3,CCDC87,CCS,CTSF,RBM14,RBM4,RBM4B,SPTBN2,ZDHHC24 |
| 29 | 45,300,000 | 45,450,000 | 605 | 372 | -0.444344748 | C11orf80,RBM14,RBM4,RBM4B,SPTBN2 |
| 29 | 45,375,000 | 45,525,000 | 606 | 277 | -0.470630043 | C11orf80,LRFN4,PC,RCE1,SPTBN2 |
| 29 | 45,450,000 | 45,600,000 | 607 | 456 | -5.625457583 | C11orf80,LRFN4,PC,RCE1 |
| 29 | 45,525,000 | 45,675,000 | 608 | 450 | -5.584784008 | C29H11orf86,PC,SYT12 |
| 29 | 45,600,000 | 45,750,000 | 609 | 305 | -0.525644863 | C29H11orf86,PC,RHOD,SYT12 |
| 29 | 45,675,000 | 45,825,000 | 610 | 265 | 0.700503357 | KDM2A,RHOD,SYT12 |
| 29 | 45,750,000 | 45,900,000 | 611 | 225 | 0.531100406 | ADRBK1,ANKRD13D,KDM2A,POLD4,SSH3 |
| 29 | 45,825,000 | 45,975,000 | 612 | 253 | 0.537864088 | ADRBK1,ANKRD13D,CARNS1,CLCF1,CORO1B,POLD4,PTPRCAP,RAD9A,RPS6KB2,SSH3,TBC1D10C,ENSBTAG00000012146 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 45,900,000 | 46,050,000 | 613 | 315 | 0.241919926 | AIP,CABP2,CABP4,CARNS1,CDK2AP2,CLCF1,CORO1B,GPR152,PITPNM1,POLD4,PTPRCAP,RAD9A,RPS6KB2,TBC1D10C,TMEM134,ENSBTAG00000012146 |
| 29 | 45,975,000 | 46,125,000 | 614 | 569 | -2.633375941 | AIP,CABP2,CABP4,CDK2AP2,CORO1B,DOC2G,GPR152,GSTP1,NDUFV1,NUDT8,PITPNM1,TMEM134,ENSBTAG00000038054 |
| 29 | 46,050,000 | 46,200,000 | 615 | 611 | -1.441033136 | ALDH3B1,ALDH3B2,DOC2G,GSTP1,NDUFV1,NUDT8,TBX10,UNC93B1,ENSBTAG00000038054 |
| 29 | 46,125,000 | 46,275,000 | 616 | 339 | 1.229471906 | ALDH3B1,ALDH3B2,CHKA,NDUFS8,NUDT8,TBX10,TCIRG1,UNC93B1 |
| 29 | 46,200,000 | 46,350,000 | 617 | 263 | 0.641899558 | ALDH3B1,CHKA,NDUFS8,SUV420H1,TCIRG1 |
| 29 | 46,275,000 | 46,425,000 | 618 | 303 | 0.815359948 | C11orf24,SUV420H1 |
| 29 | 46,350,000 | 46,500,000 | 619 | 368 | 0.982738927 | C11orf24,LRP5 |
| 29 | 46,425,000 | 46,575,000 | 620 | 703 | 0.234049817 | LRP5 |
| 29 | 46,500,000 | 46,650,000 | 621 | 754 | 0.126929819 | LRP5,SAPS3 |
| 29 | 46,575,000 | 46,725,000 | 622 | 397 | 0.549770068 | SAPS3 |
| 29 | 46,650,000 | 46,800,000 | 623 | 409 | 0.612824048 | GAL,SAPS3 |
| 29 | 46,725,000 | 46,875,000 | 624 | 690 | -0.18993556 | CPT1A,GAL |
| 29 | 46,800,000 | 46,950,000 | 625 | 620 | -0.895862084 | CPT1A,IGHMBP2,MRPL21 |
| 29 | 46,875,000 | 47,025,000 | 626 | 701 | -0.996943916 | IGHMBP2,MRGPRF,MRPL21,ENSBTAG00000016774,ENSBTAG00000046090 |
| 29 | 46,950,000 | 47,100,000 | 627 | 881 | -0.964230906 | MRGPRF,TPCN2,ENSBTAG00000016774,ENSBTAG00000046090 |
| 29 | 47,025,000 | 47,175,000 | 628 | 702 | -1.006469357 | TPCN2 |
| 29 | 47,100,000 | 47,250,000 | 629 | 536 | 0.033688408 | |
| 29 | 47,175,000 | 47,325,000 | 630 | 587 | 0.163888105 | |
| 29 | 47,250,000 | 47,400,000 | 631 | 550 | -0.074803459 | |
| 29 | 47,325,000 | 47,475,000 | 632 | 416 | 0.858096005 | |
| 29 | 47,400,000 | 47,550,000 | 633 | 621 | 0.297322817 | CCND1 |
| 29 | 47,475,000 | 47,625,000 | 634 | 745 | 0.296892935 | CCND1,FGF19,ORAOV1 |
| 29 | 47,550,000 | 47,700,000 | 635 | 608 | 0.644326448 | CCND1,FGF19,FGF3,FGF4,ORAOV1 |
| 29 | 47,625,000 | 47,775,000 | 636 | 655 | 1.009772189 | FGF3,FGF4 |
| 29 | 47,700,000 | 47,850,000 | 637 | 988 | 1.038378381 | |
| 29 | 47,775,000 | 47,925,000 | 638 | 1186 | 1.054416404 | ANO1 |
| 29 | 47,850,000 | 48,000,000 | 639 | 769 | 1.046099966 | ANO1 |
| 29 | 47,925,000 | 48,075,000 | 640 | 549 | 0.511184094 | ANO1,FADD,ENSBTAG00000008477 |
| 29 | 48,000,000 | 48,150,000 | 641 | 598 | 0.213862194 | ANO1,FADD,PPFIA1,ENSBTAG00000008477 |
| 29 | 48,075,000 | 48,225,000 | 642 | 437 | -1.136819467 | CTTN,PPFIA1,SHANK2 |
| 29 | 48,150,000 | 48,300,000 | 643 | 791 | -0.286144475 | CTTN,PPFIA1,SHANK2 |
| 29 | 48,225,000 | 48,375,000 | 644 | 1307 | -0.156642902 | SHANK2 |
| 29 | 48,300,000 | 48,450,000 | 645 | 1221 | -0.267601393 | SHANK2 |
| 29 | 48,375,000 | 48,525,000 | 646 | 862 | 0.084173425 | SHANK2 |
| 29 | 48,450,000 | 48,600,000 | 647 | 1141 | 0.725939849 | |
| 29 | 48,525,000 | 48,675,000 | 648 | 1780 | 0.936158883 | |
| 29 | 48,600,000 | 48,750,000 | 649 | 2126 | 0.544959948 | |
| 29 | 48,675,000 | 48,825,000 | 650 | 1611 | 0.307592214 | |
| 29 | 48,750,000 | 48,900,000 | 651 | 951 | -0.064442359 | ENSBTAG00000004212 |
| 29 | 48,825,000 | 48,975,000 | 652 | 708 | -0.362521508 | DHCR7,NADSYN1,ENSBTAG00000004212 |
| 29 | 48,900,000 | 49,050,000 | 653 | 846 | 0.440779189 | DHCR7,MRGPRG,NADSYN1,ENSBTAG0000000776,ENSBTAG00000004212 |
| 29 | 48,975,000 | 49,125,000 | 654 | 946 | 0.560850242 | MRGPRG,NADSYN1,OSBPL5,ENSBTAG0000000776 |
| 29 | 49,050,000 | 49,200,000 | 655 | 872 | 0.634583863 | OSBPL5,TNFRSF10A |
| 29 | 49,125,000 | 49,275,000 | 656 | 1191 | 0.706473026 | CARS,NAP1L4,OSBPL5,TNFRSF10A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 49,200,000 | 49,350,000 | 657 | 1101 | 0.510873156 | CARS,NAP1L4,PHLDA2,SLC22A18 |
| 29 | 49,275,000 | 49,425,000 | 658 | 840 | 0.52566608 | CDKN1C,NAP1L4,PHLDA2,SLC22A18 |
| 29 | 49,350,000 | 49,500,000 | 659 | 736 | 0.350467228 | CDKN1C,SLC22A18 |
| 29 | 49,425,000 | 49,575,000 | 660 | 538 | -1.061561083 | |
| 29 | 49,500,000 | 49,650,000 | 661 | 399 | -1.859554208 | |
| 29 | 49,575,000 | 49,725,000 | 662 | 488 | -1.611403373 | KCNQ1 |
| 29 | 49,650,000 | 49,800,000 | 663 | 700 | -0.835253347 | KCNQ1,ENSBTAG00000047349 |
| 29 | 49,725,000 | 49,875,000 | 664 | 638 | 0.071273337 | CD81,TRPM5,TSSC4,ENSBTAG00000047349 |
| 29 | 49,800,000 | 49,950,000 | 665 | 643 | 0.380983841 | CD81,TRPM5,TSPAN32,TSSC4 |
| 29 | 49,875,000 | 50,025,000 | 666 | 733 | 0.554277184 | ASCL2,TSPAN32 |
| 29 | 49,950,000 | 50,100,000 | 667 | 547 | 0.469700653 | ASCL2,IGF2,INS,TH |
| 29 | 50,025,000 | 50,175,000 | 668 | 429 | 0.380941132 | IGF2,INS,TH |
| 29 | 50,100,000 | 50,250,000 | 669 | 402 | 0.36234138 | LSP1,MRPL23,TNNT3 |
| 29 | 50,175,000 | 50,325,000 | 670 | 496 | 0.102816134 | LSP1,MRPL23,SYT8,TNNI2,TNNT3 |
| 29 | 50,250,000 | 50,400,000 | 671 | 1038 | 0.11434179 | CATD,CRLF2,LSP1,SYT8,TNNI2 |
| 29 | 50,325,000 | 50,475,000 | 672 | 1186 | 0.090048188 | AP2A2,CATD,CRLF2,IFITM10 |
| 29 | 50,400,000 | 50,550,000 | 673 | 965 | 0.13110367 | AP2A2,CHID1,IFITM10 |
| 29 | 50,475,000 | 50,625,000 | 674 | 1045 | 0.278091598 | CHID1,TSPAN4 |
| 29 | 50,550,000 | 50,700,000 | 675 | 1251 | -0.14180707 | CD151,CHID1,POLR2L,TSPAN4,ENSBTAG00000019579 |
| 29 | 50,625,000 | 50,775,000 | 676 | 1208 | -0.303441499 | CD151,CRACR2B,PIDD1,PNPLA2,POLR2L,RPLP2,ENSBTAG00000019579 |
| 29 | 50,700,000 | 50,850,000 | 677 | 969 | 0.191335556 | CD151,CEND1,CRACR2B,PDDC1,PIDD1,PNPLA2,RPLP2,SC T,SLC25A22 |
| 29 | 50,775,000 | 50,925,000 | 678 | 951 | 0.429912452 | CEND1,DUSP8,IRF7,MUPCDH,PDDC1,PHRF1,PIDD1,SCT,SLC25A22,TALDO1 |
| 29 | 50,850,000 | 51,000,000 | 679 | 1058 | 0.306551459 | DUSP8,EP8L2,IRF7,MOB2,MUPCDH,PDDC1,PHRF1,TALDO1 |
| 29 | 50,925,000 | 51,075,000 | 680 | 854 | 0.390405188 | BRSK2,DUSP8,EP8L2,LMNTD2,MOB2,PHRF1,RASSF7,TMEM80 |
| 29 | 51,000,000 | 51,150,000 | 681 | 688 | 0.384266455 | BRSK2,HRAS,LMNTD2,LRRC56,MOB2,RASSF7,TMEM80 |
| 29 | 51,075,000 | 51,225,000 | 682 | 934 | 0.463189415 | BRSK2,HRAS,LMNTD2,LRRC56,ENSBTAG00000047697 |
| 29 | 51,150,000 | 51,300,000 | 683 | 1146 | 0.435048993 | B4GALNT4,PKP3,SIGIRR,ENSBTAG00000047697 |
| 29 | 51,225,000 | 51,375,000 | 684 | 1076 | 0.552257498 | B4GALNT4,IFITM3,MUC5B,PKP3,SIGIRR,TOLLIP |
| 29 | 51,300,000 | 51,450,000 | 685 | 1076 | 0.696070388 | B4GALNT4,IFITM3,MUC5B,TOLLIP,ENSBTAG00000038262 |
| 29 | 51,375,000 | 51,505,224 | 686 | 1152 | 0.622428093 | MUC5B,ENSBTAG00000038262 |

Supplementary File 4. The complete list of the Z-transformation of the pooled heterozygosity (ZHp) scores for all the overlapping sliding windows across all 29 autosomes in YAN.

| Chr | Start | End | Bin | No. SNP | ZHp | GeneList |
|-----|-----------|-----------|-----|---------|--------------|--|
| 1 | 0 | 150,000 | 1 | 1746 | 0.916881598 | ENSBTAG00000001753,ENSBTAG000000039257 |
| 1 | 75,000 | 225,000 | 2 | 1686 | 0.757161107 | ENSBTAG00000001753 |
| 1 | 150,000 | 300,000 | 3 | 1627 | 0.941107524 | CBX3,ENSBTAG00000001753 |
| 1 | 225,000 | 375,000 | 4 | 1544 | 0.589445243 | CBX3,RCAN1 |
| 1 | 300,000 | 450,000 | 5 | 1656 | -0.065989385 | KCNE1,RCAN1,ENSBTAG000000026259 |
| 1 | 375,000 | 525,000 | 6 | 1635 | 0.643871232 | C21orf140,KCNE1,KCNE2,SMIM11,ENSBTAG000000026259 |
| 1 | 450,000 | 600,000 | 7 | 1379 | 0.798826441 | C21orf140,KCNE2,SMIM11,ENSBTAG000000045984 |
| 1 | 525,000 | 675,000 | 8 | 867 | -1.796753095 | MRPS6,ENSBTAG000000045984 |
| 1 | 600,000 | 750,000 | 9 | 387 | -4.51659713 | MRPS6 |
| 1 | 675,000 | 825,000 | 10 | 281 | -2.123872955 | MRPS6 |
| 1 | 750,000 | 900,000 | 11 | 659 | -2.005173897 | |
| 1 | 825,000 | 975,000 | 12 | 850 | -1.277480575 | ATP5O,ITSN1 |
| 1 | 900,000 | 1,050,000 | 13 | 529 | 0.32109826 | ATP5O,ITSN1 |
| 1 | 975,000 | 1,125,000 | 14 | 465 | 1.142978532 | ITSN1 |
| 1 | 1,050,000 | 1,200,000 | 15 | 404 | 1.162922587 | CRYZL1,ITSN1 |
| 1 | 1,125,000 | 1,275,000 | 16 | 329 | 0.615411091 | CRYZL1,DONSON,GART,ITSN1,SON |
| 1 | 1,200,000 | 1,350,000 | 17 | 565 | 0.334882735 | CRYZL1,DNAJC28,DONSON,GART,SON,TMEM50B |
| 1 | 1,275,000 | 1,425,000 | 18 | 736 | 0.006693924 | DNAJC28,GART,IFNGR2,TMEM50B |
| 1 | 1,350,000 | 1,500,000 | 19 | 767 | 0.265494126 | IFNAR1,IFNGR2,TMEM50B |
| 1 | 1,425,000 | 1,575,000 | 20 | 1133 | 0.123711614 | IFNAR1,IL10RB |
| 1 | 1,500,000 | 1,650,000 | 21 | 1111 | -0.027483419 | IFNAR2,IL10RB |
| 1 | 1,575,000 | 1,725,000 | 22 | 856 | -0.838181085 | HIST1H4H,IFNAR2,IL10RB |
| 1 | 1,650,000 | 1,800,000 | 23 | 617 | -1.669775977 | HIST1H4H,OLIG1 |
| 1 | 1,725,000 | 1,875,000 | 24 | 391 | -0.343857317 | OLIG1 |
| 1 | 1,800,000 | 1,950,000 | 25 | 743 | -0.598516594 | |
| 1 | 1,875,000 | 2,025,000 | 26 | 813 | -0.212076919 | |
| 1 | 1,950,000 | 2,100,000 | 27 | 602 | 0.688954906 | C21orf62,GCFC |
| 1 | 2,025,000 | 2,175,000 | 28 | 368 | 0.600217179 | C21orf62,GCFC,SYNJ1 |
| 1 | 2,100,000 | 2,250,000 | 29 | 207 | 0.375305515 | C1H21orf59,SYNJ1 |
| 1 | 2,175,000 | 2,325,000 | 30 | 530 | 1.270636859 | C1H21orf59,EVA1C,SYNJ1 |
| 1 | 2,250,000 | 2,400,000 | 31 | 806 | 0.66786516 | EVA1C,URB1 |
| 1 | 2,325,000 | 2,475,000 | 32 | 945 | -1.310271807 | EVA1C,MRAP,URB1 |
| 1 | 2,400,000 | 2,550,000 | 33 | 1016 | -1.057702926 | MIS18A,MRAP,URB1 |
| 1 | 2,475,000 | 2,625,000 | 34 | 927 | 0.457958578 | MIS18A,MRAP |
| 1 | 2,550,000 | 2,700,000 | 35 | 1118 | 0.623890107 | |
| 1 | 2,625,000 | 2,775,000 | 36 | 1573 | -0.230108946 | |
| 1 | 2,700,000 | 2,850,000 | 37 | 1544 | 0.013632403 | HUNK |
| 1 | 2,775,000 | 2,925,000 | 38 | 1281 | 0.694570751 | HUNK |
| 1 | 2,850,000 | 3,000,000 | 39 | 1541 | 1.041029861 | HUNK |
| 1 | 2,925,000 | 3,075,000 | 40 | 1382 | 1.018103026 | SCAF4 |
| 1 | 3,000,000 | 3,150,000 | 41 | 800 | 0.397944564 | SCAF4,SOD1 |
| 1 | 3,075,000 | 3,225,000 | 42 | 1097 | 0.812941065 | SCAF4,SOD1 |
| 1 | 3,150,000 | 3,300,000 | 43 | 1203 | 0.697854491 | |
| 1 | 3,225,000 | 3,375,000 | 44 | 847 | 0.275043805 | |
| 1 | 3,300,000 | 3,450,000 | 45 | 892 | 0.08856762 | |
| 1 | 3,375,000 | 3,525,000 | 46 | 1014 | 0.589737017 | TIAM1 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---|
| 1 | 3,450,000 | 3,600,000 | 47 | 985 | -0.350565904 | TIAM1 |
| 1 | 3,525,000 | 3,675,000 | 48 | 750 | -2.480435151 | TIAM1 |
| 1 | 3,600,000 | 3,750,000 | 49 | 662 | -1.808292382 | TIAM1 |
| 1 | 3,675,000 | 3,825,000 | 50 | 838 | 0.31398297 | TIAM1 |
| 1 | 3,750,000 | 3,900,000 | 51 | 979 | -0.608899654 | |
| 1 | 3,825,000 | 3,975,000 | 52 | 953 | -1.252648561 | KRTAP11-1 |
| 1 | 3,900,000 | 4,050,000 | 53 | 956 | -0.574744082 | KRTAP11-1,KRTAP7-1 |
| 1 | 3,975,000 | 4,125,000 | 54 | 855 | -0.717323161 | KRTAP7-1,KRTAP8-1 |
| 1 | 4,050,000 | 4,200,000 | 55 | 903 | -0.179553966 | KRTAP8-1 |
| 1 | 4,125,000 | 4,275,000 | 56 | 985 | -0.321178353 | ENSBTAG00000044154 |
| 1 | 4,200,000 | 4,350,000 | 57 | 697 | -1.502633512 | ENSBTAG00000044154 |
| 1 | 4,275,000 | 4,425,000 | 58 | 809 | -0.034052958 | |
| 1 | 4,350,000 | 4,500,000 | 59 | 861 | 0.527001104 | |
| 1 | 4,425,000 | 4,575,000 | 60 | 852 | 0.344882611 | |
| 1 | 4,500,000 | 4,650,000 | 61 | 1169 | -0.093803913 | |
| 1 | 4,575,000 | 4,725,000 | 62 | 1244 | -0.609429018 | |
| 1 | 4,650,000 | 4,800,000 | 63 | 1314 | -0.231680724 | KRTAP13-1 |
| 1 | 4,725,000 | 4,875,000 | 64 | 1395 | 0.244001432 | KRTAP13-1,ENSBTAG00000037933 |
| 1 | 4,800,000 | 4,950,000 | 65 | 1400 | 0.580200987 | KRTAP27-1,ENSBTAG00000037933 |
| 1 | 4,875,000 | 5,025,000 | 66 | 1430 | 0.64407643 | KRTAP24-1,KRTAP27-1 |
| 1 | 4,950,000 | 5,100,000 | 67 | 1496 | 0.640255409 | CLDN17,CLDN8,KRTAP24-1 |
| 1 | 5,025,000 | 5,175,000 | 68 | 1271 | 0.798848192 | CLDN17,CLDN8 |
| 1 | 5,100,000 | 5,250,000 | 69 | 1172 | 0.684728119 | |
| 1 | 5,175,000 | 5,325,000 | 70 | 987 | 0.4112775 | |
| 1 | 5,250,000 | 5,400,000 | 71 | 830 | 0.642859463 | |
| 1 | 5,325,000 | 5,475,000 | 72 | 1070 | 0.674268587 | |
| 1 | 5,400,000 | 5,550,000 | 73 | 1069 | 0.010708964 | |
| 1 | 5,475,000 | 5,625,000 | 74 | 911 | 0.139706418 | |
| 1 | 5,550,000 | 5,700,000 | 75 | 827 | -0.135330221 | |
| 1 | 5,625,000 | 5,775,000 | 76 | 1245 | 0.26143424 | GRIK1 |
| 1 | 5,700,000 | 5,850,000 | 77 | 1427 | 0.659219671 | GRIK1 |
| 1 | 5,775,000 | 5,925,000 | 78 | 1103 | -0.035454698 | GRIK1,ENSBTAG00000045873 |
| 1 | 5,850,000 | 6,000,000 | 79 | 1223 | -2.033475571 | GRIK1,ENSBTAG00000045873 |
| 1 | 5,925,000 | 6,075,000 | 80 | 1183 | -2.265079378 | |
| 1 | 6,000,000 | 6,150,000 | 81 | 944 | -0.487116202 | |
| 1 | 6,075,000 | 6,225,000 | 82 | 631 | -0.526324005 | BACH1 |
| 1 | 6,150,000 | 6,300,000 | 83 | 370 | -1.47307343 | BACH1 |
| 1 | 6,225,000 | 6,375,000 | 84 | 523 | -2.547449012 | C1H21ORF7 |
| 1 | 6,300,000 | 6,450,000 | 85 | 810 | -1.536612415 | C1H21ORF7 |
| 1 | 6,375,000 | 6,525,000 | 86 | 770 | -0.599106304 | C1H21ORF7,CCT8,RWDD2B,USP16 |
| 1 | 6,450,000 | 6,600,000 | 87 | 539 | 0.220762664 | CCT8,RNF160,RWDD2B,USP16 |
| 1 | 6,525,000 | 6,675,000 | 88 | 992 | 0.523440915 | N6AMT1,RNF160,RWDD2B,ENSBTAG00000038433 |
| 1 | 6,600,000 | 6,750,000 | 89 | 1229 | 0.455558015 | N6AMT1,RNF160,ENSBTAG00000038433 |
| 1 | 6,675,000 | 6,825,000 | 90 | 940 | 0.291124616 | |
| 1 | 6,750,000 | 6,900,000 | 91 | 1269 | 0.047927394 | |
| 1 | 6,825,000 | 6,975,000 | 92 | 1464 | 0.407043333 | |
| 1 | 6,900,000 | 7,050,000 | 93 | 1213 | 0.924399884 | |
| 1 | 6,975,000 | 7,125,000 | 94 | 968 | 0.992685008 | |
| 1 | 7,050,000 | 7,200,000 | 95 | 742 | 0.775636831 | |
| 1 | 7,125,000 | 7,275,000 | 96 | 671 | 0.442270905 | |
| 1 | 7,200,000 | 7,350,000 | 97 | 543 | 0.399321336 | |
| 1 | 7,275,000 | 7,425,000 | 98 | 550 | 0.00774724 | |
| 1 | 7,350,000 | 7,500,000 | 99 | 735 | -0.277722648 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 7,425,000 | 7,575,000 | 100 | 680 | 0.387118237 | |
| 1 | 7,500,000 | 7,650,000 | 101 | 584 | 0.907609523 | |
| 1 | 7,575,000 | 7,725,000 | 102 | 828 | 0.533076092 | |
| 1 | 7,650,000 | 7,800,000 | 103 | 972 | 0.419871772 | |
| 1 | 7,725,000 | 7,875,000 | 104 | 674 | 0.401652049 | |
| 1 | 7,800,000 | 7,950,000 | 105 | 627 | 0.684834984 | |
| 1 | 7,875,000 | 8,025,000 | 106 | 943 | 1.152650951 | |
| 1 | 7,950,000 | 8,100,000 | 107 | 1221 | -0.183440791 | |
| 1 | 8,025,000 | 8,175,000 | 108 | 1284 | -0.925512798 | |
| 1 | 8,100,000 | 8,250,000 | 109 | 1053 | 0.181731023 | |
| 1 | 8,175,000 | 8,325,000 | 110 | 914 | 0.85017624 | |
| 1 | 8,250,000 | 8,400,000 | 111 | 1176 | 0.953923109 | ENSBTAG00000040155 |
| 1 | 8,325,000 | 8,475,000 | 112 | 1353 | 0.847899223 | ENSBTAG00000040155 |
| 1 | 8,400,000 | 8,550,000 | 113 | 1082 | 0.610354213 | |
| 1 | 8,475,000 | 8,625,000 | 114 | 1080 | 0.276227918 | |
| 1 | 8,550,000 | 8,700,000 | 115 | 919 | -0.098161274 | |
| 1 | 8,625,000 | 8,775,000 | 116 | 592 | 0.373312937 | |
| 1 | 8,700,000 | 8,850,000 | 117 | 484 | 0.165509072 | ADAMTS5 |
| 1 | 8,775,000 | 8,925,000 | 118 | 403 | -0.571245669 | ADAMTS5 |
| 1 | 8,850,000 | 9,000,000 | 119 | 477 | 0.148620447 | ADAMTS1,ADAMTS5 |
| 1 | 8,925,000 | 9,075,000 | 120 | 672 | 0.559923338 | ADAMTS1 |
| 1 | 9,000,000 | 9,150,000 | 121 | 767 | 0.739761461 | |
| 1 | 9,075,000 | 9,225,000 | 122 | 737 | 0.452190368 | |
| 1 | 9,150,000 | 9,300,000 | 123 | 736 | 0.382078672 | CYYR1 |
| 1 | 9,225,000 | 9,375,000 | 124 | 605 | 0.647419317 | CYYR1 |
| 1 | 9,300,000 | 9,450,000 | 125 | 757 | -1.810029918 | |
| 1 | 9,375,000 | 9,525,000 | 126 | 1188 | -1.583197002 | |
| 1 | 9,450,000 | 9,600,000 | 127 | 1540 | 0.021382605 | |
| 1 | 9,525,000 | 9,675,000 | 128 | 1515 | -0.395402051 | APP |
| 1 | 9,600,000 | 9,750,000 | 129 | 1185 | -0.844385265 | APP |
| 1 | 9,675,000 | 9,825,000 | 130 | 1225 | -0.750052982 | APP |
| 1 | 9,750,000 | 9,900,000 | 131 | 1218 | -0.688722336 | APP |
| 1 | 9,825,000 | 9,975,000 | 132 | 1179 | -0.23608397 | APP |
| 1 | 9,900,000 | 10,050,000 | 133 | 968 | -0.136959676 | APP,GABPA |
| 1 | 9,975,000 | 10,125,000 | 134 | 520 | 0.125825628 | ATP5J,GABPA,JAM2 |
| 1 | 10,050,000 | 10,200,000 | 135 | 739 | 0.050876022 | ATP5J,GABPA,JAM2 |
| 1 | 10,125,000 | 10,275,000 | 136 | 734 | 0.058186853 | JAM2,MRPL39 |
| 1 | 10,200,000 | 10,350,000 | 137 | 386 | -0.081011739 | MRPL39 |
| 1 | 10,275,000 | 10,425,000 | 138 | 405 | -1.214369023 | |
| 1 | 10,350,000 | 10,500,000 | 139 | 456 | -1.485431611 | |
| 1 | 10,425,000 | 10,575,000 | 140 | 426 | -1.501052767 | |
| 1 | 10,500,000 | 10,650,000 | 141 | 697 | -1.545332584 | |
| 1 | 10,575,000 | 10,725,000 | 142 | 747 | -1.188547273 | |
| 1 | 10,650,000 | 10,800,000 | 143 | 484 | 0.055572041 | |
| 1 | 10,725,000 | 10,875,000 | 144 | 860 | 1.035941251 | |
| 1 | 10,800,000 | 10,950,000 | 145 | 1136 | 1.050164029 | |
| 1 | 10,875,000 | 11,025,000 | 146 | 1223 | 0.949153456 | ENSBTAG00000038900 |
| 1 | 10,950,000 | 11,100,000 | 147 | 1348 | 0.46981728 | ENSBTAG00000038900 |
| 1 | 11,025,000 | 11,175,000 | 148 | 1310 | 0.488582203 | |
| 1 | 11,100,000 | 11,250,000 | 149 | 1092 | 0.203770746 | |
| 1 | 11,175,000 | 11,325,000 | 150 | 1159 | -4.229950259 | |
| 1 | 11,250,000 | 11,400,000 | 151 | 1004 | -4.724941087 | |
| 1 | 11,325,000 | 11,475,000 | 152 | 596 | -2.914641132 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------|
| 1 | 11,400,000 | 11,550,000 | 153 | 605 | -2.07812979 | |
| 1 | 11,475,000 | 11,625,000 | 154 | 827 | 0.629656247 | |
| 1 | 11,550,000 | 11,700,000 | 155 | 1125 | 0.051481014 | |
| 1 | 11,625,000 | 11,775,000 | 156 | 1201 | 0.094267524 | |
| 1 | 11,700,000 | 11,850,000 | 157 | 1330 | 0.385093122 | |
| 1 | 11,775,000 | 11,925,000 | 158 | 1489 | 0.076299718 | |
| 1 | 11,850,000 | 12,000,000 | 159 | 1268 | 0.09665796 | |
| 1 | 11,925,000 | 12,075,000 | 160 | 960 | 1.072695799 | |
| 1 | 12,000,000 | 12,150,000 | 161 | 1092 | 1.087375463 | |
| 1 | 12,075,000 | 12,225,000 | 162 | 1339 | 0.354143851 | |
| 1 | 12,150,000 | 12,300,000 | 163 | 1402 | -0.193502555 | |
| 1 | 12,225,000 | 12,375,000 | 164 | 1214 | -1.513295402 | |
| 1 | 12,300,000 | 12,450,000 | 165 | 1252 | -1.722128474 | |
| 1 | 12,375,000 | 12,525,000 | 166 | 1520 | -1.463386209 | |
| 1 | 12,450,000 | 12,600,000 | 167 | 1230 | -1.895626121 | |
| 1 | 12,525,000 | 12,675,000 | 168 | 889 | -4.772913807 | |
| 1 | 12,600,000 | 12,750,000 | 169 | 1169 | -5.484379435 | |
| 1 | 12,675,000 | 12,825,000 | 170 | 1395 | -3.342254313 | |
| 1 | 12,750,000 | 12,900,000 | 171 | 1566 | -2.741606171 | |
| 1 | 12,825,000 | 12,975,000 | 172 | 1831 | -1.552999123 | |
| 1 | 12,900,000 | 13,050,000 | 173 | 1675 | -1.377231004 | |
| 1 | 12,975,000 | 13,125,000 | 174 | 1365 | -1.391779806 | |
| 1 | 13,050,000 | 13,200,000 | 175 | 1352 | 0.991986489 | |
| 1 | 13,125,000 | 13,275,000 | 176 | 1149 | 0.731609093 | |
| 1 | 13,200,000 | 13,350,000 | 177 | 1349 | 0.772289296 | |
| 1 | 13,275,000 | 13,425,000 | 178 | 1593 | 1.16210588 | |
| 1 | 13,350,000 | 13,500,000 | 179 | 1218 | -0.533342882 | |
| 1 | 13,425,000 | 13,575,000 | 180 | 1144 | -0.631824031 | |
| 1 | 13,500,000 | 13,650,000 | 181 | 1145 | 0.688284471 | |
| 1 | 13,575,000 | 13,725,000 | 182 | 1320 | -0.293309027 | |
| 1 | 13,650,000 | 13,800,000 | 183 | 1768 | 0.053443988 | |
| 1 | 13,725,000 | 13,875,000 | 184 | 1736 | 0.489848478 | |
| 1 | 13,800,000 | 13,950,000 | 185 | 1353 | 0.008173431 | |
| 1 | 13,875,000 | 14,025,000 | 186 | 1500 | 0.094699719 | |
| 1 | 13,950,000 | 14,100,000 | 187 | 1914 | 0.912901147 | |
| 1 | 14,025,000 | 14,175,000 | 188 | 2167 | 1.328615455 | |
| 1 | 14,100,000 | 14,250,000 | 189 | 2033 | 0.725556805 | |
| 1 | 14,175,000 | 14,325,000 | 190 | 1813 | -0.468516866 | |
| 1 | 14,250,000 | 14,400,000 | 191 | 1449 | -0.931501969 | |
| 1 | 14,325,000 | 14,475,000 | 192 | 1005 | -0.570732194 | |
| 1 | 14,400,000 | 14,550,000 | 193 | 1020 | 0.443119818 | |
| 1 | 14,475,000 | 14,625,000 | 194 | 803 | 0.415450775 | |
| 1 | 14,550,000 | 14,700,000 | 195 | 891 | 0.983788177 | |
| 1 | 14,625,000 | 14,775,000 | 196 | 1244 | 0.787764185 | |
| 1 | 14,700,000 | 14,850,000 | 197 | 1119 | 0.345356299 | NCAM2 |
| 1 | 14,775,000 | 14,925,000 | 198 | 947 | 0.72454132 | NCAM2 |
| 1 | 14,850,000 | 15,000,000 | 199 | 1366 | -1.88114941 | NCAM2 |
| 1 | 14,925,000 | 15,075,000 | 200 | 1621 | -2.232852981 | NCAM2 |
| 1 | 15,000,000 | 15,150,000 | 201 | 1465 | -0.483909971 | NCAM2 |
| 1 | 15,075,000 | 15,225,000 | 202 | 1464 | -0.031444406 | |
| 1 | 15,150,000 | 15,300,000 | 203 | 1140 | -0.282565156 | |
| 1 | 15,225,000 | 15,375,000 | 204 | 716 | -0.014608561 | |
| 1 | 15,300,000 | 15,450,000 | 205 | 760 | -0.2845232 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------------|
| 1 | 15,375,000 | 15,525,000 | 206 | 1184 | -0.170919551 | |
| 1 | 15,450,000 | 15,600,000 | 207 | 1315 | -0.613905186 | |
| 1 | 15,525,000 | 15,675,000 | 208 | 1187 | -1.019598358 | |
| 1 | 15,600,000 | 15,750,000 | 209 | 1039 | -0.822649976 | |
| 1 | 15,675,000 | 15,825,000 | 210 | 924 | -0.229216186 | |
| 1 | 15,750,000 | 15,900,000 | 211 | 1073 | -0.453009897 | |
| 1 | 15,825,000 | 15,975,000 | 212 | 1135 | -0.531795535 | |
| 1 | 15,900,000 | 16,050,000 | 213 | 1229 | -0.731029419 | |
| 1 | 15,975,000 | 16,125,000 | 214 | 1358 | 0.043053552 | |
| 1 | 16,050,000 | 16,200,000 | 215 | 1483 | 0.947846779 | |
| 1 | 16,125,000 | 16,275,000 | 216 | 1185 | 0.830686506 | |
| 1 | 16,200,000 | 16,350,000 | 217 | 908 | 0.257429 | |
| 1 | 16,275,000 | 16,425,000 | 218 | 1007 | 0.337473254 | |
| 1 | 16,350,000 | 16,500,000 | 219 | 949 | -0.157618213 | |
| 1 | 16,425,000 | 16,575,000 | 220 | 1449 | 0.089447807 | |
| 1 | 16,500,000 | 16,650,000 | 221 | 1819 | 0.529443765 | |
| 1 | 16,575,000 | 16,725,000 | 222 | 1609 | 0.798035748 | |
| 1 | 16,650,000 | 16,800,000 | 223 | 1433 | 0.76804286 | |
| 1 | 16,725,000 | 16,875,000 | 224 | 1312 | 0.584404644 | |
| 1 | 16,800,000 | 16,950,000 | 225 | 1333 | 0.998855868 | |
| 1 | 16,875,000 | 17,025,000 | 226 | 1537 | 0.719353232 | |
| 1 | 16,950,000 | 17,100,000 | 227 | 1758 | 0.835025131 | |
| 1 | 17,025,000 | 17,175,000 | 228 | 1616 | 1.207367681 | |
| 1 | 17,100,000 | 17,250,000 | 229 | 1126 | -1.602238217 | |
| 1 | 17,175,000 | 17,325,000 | 230 | 550 | -6.602176484 | |
| 1 | 17,250,000 | 17,400,000 | 231 | 828 | -0.799465213 | |
| 1 | 17,325,000 | 17,475,000 | 232 | 1526 | 0.676755735 | |
| 1 | 17,400,000 | 17,550,000 | 233 | 1931 | 0.758632624 | |
| 1 | 17,475,000 | 17,625,000 | 234 | 2027 | 0.038640672 | |
| 1 | 17,550,000 | 17,700,000 | 235 | 1697 | -0.540086667 | |
| 1 | 17,625,000 | 17,775,000 | 236 | 1200 | 0.174206275 | |
| 1 | 17,700,000 | 17,850,000 | 237 | 955 | -0.227001076 | |
| 1 | 17,775,000 | 17,925,000 | 238 | 1196 | 0.171630301 | |
| 1 | 17,850,000 | 18,000,000 | 239 | 1117 | 0.859274352 | |
| 1 | 17,925,000 | 18,075,000 | 240 | 1024 | 0.735981811 | TMPRSS15 |
| 1 | 18,000,000 | 18,150,000 | 241 | 877 | 0.550486311 | TMPRSS15 |
| 1 | 18,075,000 | 18,225,000 | 242 | 933 | 1.16194703 | CHODL,TMPRSS15 |
| 1 | 18,150,000 | 18,300,000 | 243 | 1520 | 1.130358145 | CHODL,TMPRSS15 |
| 1 | 18,225,000 | 18,375,000 | 244 | 1554 | 1.089488408 | CHODL |
| 1 | 18,300,000 | 18,450,000 | 245 | 1187 | 0.540492123 | |
| 1 | 18,375,000 | 18,525,000 | 246 | 1188 | -0.182600337 | |
| 1 | 18,450,000 | 18,600,000 | 247 | 1119 | 0.420441406 | |
| 1 | 18,525,000 | 18,675,000 | 248 | 932 | 0.997137346 | |
| 1 | 18,600,000 | 18,750,000 | 249 | 668 | 0.995387659 | C1H21ORF91 |
| 1 | 18,675,000 | 18,825,000 | 250 | 837 | 1.401883555 | C1H21ORF91 |
| 1 | 18,750,000 | 18,900,000 | 251 | 1209 | 1.313992301 | |
| 1 | 18,825,000 | 18,975,000 | 252 | 973 | 0.932160786 | BTG3,CXADR,ENSBTAG00000047943 |
| 1 | 18,900,000 | 19,050,000 | 253 | 1006 | 1.095879261 | BTG3,CXADR,ENSBTAG00000047943 |
| 1 | 18,975,000 | 19,125,000 | 254 | 841 | 1.15922908 | CXADR |
| 1 | 19,050,000 | 19,200,000 | 255 | 518 | -0.118414793 | |
| 1 | 19,125,000 | 19,275,000 | 256 | 853 | -0.624992069 | |
| 1 | 19,200,000 | 19,350,000 | 257 | 1430 | 0.788748227 | |
| 1 | 19,275,000 | 19,425,000 | 258 | 1718 | 1.236304905 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 19,350,000 | 19,500,000 | 259 | 1609 | 0.914869286 | |
| 1 | 19,425,000 | 19,575,000 | 260 | 1582 | 0.856951712 | |
| 1 | 19,500,000 | 19,650,000 | 261 | 1436 | 0.405019675 | |
| 1 | 19,575,000 | 19,725,000 | 262 | 1172 | -0.719077124 | |
| 1 | 19,650,000 | 19,800,000 | 263 | 1386 | -2.262352875 | |
| 1 | 19,725,000 | 19,875,000 | 264 | 1452 | -1.944392993 | PPP1CA |
| 1 | 19,800,000 | 19,950,000 | 265 | 1063 | 0.708731574 | PPP1CA |
| 1 | 19,875,000 | 20,025,000 | 266 | 1203 | 1.046334722 | |
| 1 | 19,950,000 | 20,100,000 | 267 | 1417 | -0.057968849 | |
| 1 | 20,025,000 | 20,175,000 | 268 | 1122 | -0.564449794 | |
| 1 | 20,100,000 | 20,250,000 | 269 | 812 | 0.359382015 | |
| 1 | 20,175,000 | 20,325,000 | 270 | 542 | 0.533871971 | |
| 1 | 20,250,000 | 20,400,000 | 271 | 577 | 1.152710265 | |
| 1 | 20,325,000 | 20,475,000 | 272 | 838 | 1.083460712 | ENSBTAG00000047183 |
| 1 | 20,400,000 | 20,550,000 | 273 | 905 | 0.812906985 | ENSBTAG00000047183 |
| 1 | 20,475,000 | 20,625,000 | 274 | 960 | -1.313816763 | |
| 1 | 20,550,000 | 20,700,000 | 275 | 1169 | -0.702960128 | USP25 |
| 1 | 20,625,000 | 20,775,000 | 276 | 1106 | 0.856880041 | USP25 |
| 1 | 20,700,000 | 20,850,000 | 277 | 993 | 0.060319368 | USP25 |
| 1 | 20,775,000 | 20,925,000 | 278 | 968 | -0.042376568 | USP25 |
| 1 | 20,850,000 | 21,000,000 | 279 | 1032 | -0.139780291 | |
| 1 | 20,925,000 | 21,075,000 | 280 | 1223 | -0.08571449 | |
| 1 | 21,000,000 | 21,150,000 | 281 | 1093 | -0.450523951 | |
| 1 | 21,075,000 | 21,225,000 | 282 | 843 | -0.89728318 | |
| 1 | 21,150,000 | 21,300,000 | 283 | 865 | -0.004336202 | |
| 1 | 21,225,000 | 21,375,000 | 284 | 1122 | 0.713503362 | |
| 1 | 21,300,000 | 21,450,000 | 285 | 1253 | 0.614403218 | |
| 1 | 21,375,000 | 21,525,000 | 286 | 1093 | 0.619745384 | |
| 1 | 21,450,000 | 21,600,000 | 287 | 996 | 0.894606657 | |
| 1 | 21,525,000 | 21,675,000 | 288 | 938 | 0.561716095 | |
| 1 | 21,600,000 | 21,750,000 | 289 | 920 | 0.56264325 | NRIP1 |
| 1 | 21,675,000 | 21,825,000 | 290 | 833 | -1.27308732 | NRIP1 |
| 1 | 21,750,000 | 21,900,000 | 291 | 732 | -1.041606567 | |
| 1 | 21,825,000 | 21,975,000 | 292 | 1089 | 0.10799621 | |
| 1 | 21,900,000 | 22,050,000 | 293 | 1030 | -0.73409941 | |
| 1 | 21,975,000 | 22,125,000 | 294 | 848 | -1.301998585 | SAMSN1 |
| 1 | 22,050,000 | 22,200,000 | 295 | 831 | -1.000274716 | SAMSN1 |
| 1 | 22,125,000 | 22,275,000 | 296 | 900 | -0.279426887 | SAMSN1 |
| 1 | 22,200,000 | 22,350,000 | 297 | 1007 | 1.156708408 | HSPA13 |
| 1 | 22,275,000 | 22,425,000 | 298 | 1033 | 1.186327485 | HSPA13 |
| 1 | 22,350,000 | 22,500,000 | 299 | 1098 | 0.803119854 | LIPI,RBM11 |
| 1 | 22,425,000 | 22,575,000 | 300 | 1132 | -0.036235405 | LIPI,RBM11 |
| 1 | 22,500,000 | 22,650,000 | 301 | 945 | -0.09336761 | |
| 1 | 22,575,000 | 22,725,000 | 302 | 605 | -1.678585586 | |
| 1 | 22,650,000 | 22,800,000 | 303 | 482 | -1.830420923 | |
| 1 | 22,725,000 | 22,875,000 | 304 | 618 | -0.307552011 | |
| 1 | 22,800,000 | 22,950,000 | 305 | 872 | 0.062651509 | |
| 1 | 22,875,000 | 23,025,000 | 306 | 931 | 0.133987581 | |
| 1 | 22,950,000 | 23,100,000 | 307 | 1263 | -1.334359105 | |
| 1 | 23,025,000 | 23,175,000 | 308 | 1501 | -1.880617886 | |
| 1 | 23,100,000 | 23,250,000 | 309 | 1332 | -1.657017283 | |
| 1 | 23,175,000 | 23,325,000 | 310 | 1164 | -1.426095744 | |
| 1 | 23,250,000 | 23,400,000 | 311 | 1231 | -1.157275086 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 1 | 23,325,000 | 23,475,000 | 312 | 1616 | -1.043429413 | |
| 1 | 23,400,000 | 23,550,000 | 313 | 1308 | -0.906539479 | |
| 1 | 23,475,000 | 23,625,000 | 314 | 817 | 0.118493849 | |
| 1 | 23,550,000 | 23,700,000 | 315 | 912 | 0.576538212 | |
| 1 | 23,625,000 | 23,775,000 | 316 | 988 | 0.455035554 | |
| 1 | 23,700,000 | 23,850,000 | 317 | 1296 | 0.332335773 | |
| 1 | 23,775,000 | 23,925,000 | 318 | 1451 | 0.421815964 | |
| 1 | 23,850,000 | 24,000,000 | 319 | 1171 | -0.460720361 | ENSBTAG00000046755 |
| 1 | 23,925,000 | 24,075,000 | 320 | 925 | -0.824649968 | ENSBTAG00000046755 |
| 1 | 24,000,000 | 24,150,000 | 321 | 1323 | 0.768913235 | |
| 1 | 24,075,000 | 24,225,000 | 322 | 1694 | 0.371515331 | |
| 1 | 24,150,000 | 24,300,000 | 323 | 1585 | -0.194083283 | |
| 1 | 24,225,000 | 24,375,000 | 324 | 1410 | 0.238228638 | |
| 1 | 24,300,000 | 24,450,000 | 325 | 1172 | 0.777894415 | ROBO2 |
| 1 | 24,375,000 | 24,525,000 | 326 | 923 | 0.494299876 | ROBO2 |
| 1 | 24,450,000 | 24,600,000 | 327 | 862 | -0.16624666 | ROBO2 |
| 1 | 24,525,000 | 24,675,000 | 328 | 1089 | 0.360663196 | ROBO2 |
| 1 | 24,600,000 | 24,750,000 | 329 | 1392 | 0.521577305 | |
| 1 | 24,675,000 | 24,825,000 | 330 | 1525 | -0.432009566 | |
| 1 | 24,750,000 | 24,900,000 | 331 | 1584 | -0.218025573 | |
| 1 | 24,825,000 | 24,975,000 | 332 | 1656 | -0.078317364 | |
| 1 | 24,900,000 | 25,050,000 | 333 | 1329 | -0.517113825 | |
| 1 | 24,975,000 | 25,125,000 | 334 | 1068 | -0.716266056 | |
| 1 | 25,050,000 | 25,200,000 | 335 | 916 | -0.357009885 | |
| 1 | 25,125,000 | 25,275,000 | 336 | 1090 | 0.120277425 | |
| 1 | 25,200,000 | 25,350,000 | 337 | 1568 | 0.196048048 | |
| 1 | 25,275,000 | 25,425,000 | 338 | 1604 | 0.609857942 | |
| 1 | 25,350,000 | 25,500,000 | 339 | 1377 | 0.51630028 | |
| 1 | 25,425,000 | 25,575,000 | 340 | 1300 | 0.342235315 | |
| 1 | 25,500,000 | 25,650,000 | 341 | 1146 | 0.189302838 | ROBO1 |
| 1 | 25,575,000 | 25,725,000 | 342 | 843 | 0.178036613 | ROBO1 |
| 1 | 25,650,000 | 25,800,000 | 343 | 981 | 0.501480481 | ROBO1 |
| 1 | 25,725,000 | 25,875,000 | 344 | 1111 | -0.10760635 | ROBO1 |
| 1 | 25,800,000 | 25,950,000 | 345 | 779 | -1.001751116 | ROBO1 |
| 1 | 25,875,000 | 26,025,000 | 346 | 703 | -0.921248943 | ROBO1 |
| 1 | 25,950,000 | 26,100,000 | 347 | 897 | -0.917153752 | ROBO1 |
| 1 | 26,025,000 | 26,175,000 | 348 | 1108 | -0.794695404 | ROBO1 |
| 1 | 26,100,000 | 26,250,000 | 349 | 1289 | 0.167856192 | ROBO1 |
| 1 | 26,175,000 | 26,325,000 | 350 | 1355 | 0.518772376 | ROBO1 |
| 1 | 26,250,000 | 26,400,000 | 351 | 1293 | -0.229188785 | |
| 1 | 26,325,000 | 26,475,000 | 352 | 1108 | -1.549989608 | |
| 1 | 26,400,000 | 26,550,000 | 353 | 774 | -2.725723754 | |
| 1 | 26,475,000 | 26,625,000 | 354 | 597 | -2.909333097 | |
| 1 | 26,550,000 | 26,700,000 | 355 | 678 | -1.198641048 | |
| 1 | 26,625,000 | 26,775,000 | 356 | 879 | -0.086095497 | |
| 1 | 26,700,000 | 26,850,000 | 357 | 1217 | -0.03620882 | |
| 1 | 26,775,000 | 26,925,000 | 358 | 1454 | 0.407912821 | |
| 1 | 26,850,000 | 27,000,000 | 359 | 1682 | 0.214438645 | |
| 1 | 26,925,000 | 27,075,000 | 360 | 1462 | 0.160678581 | |
| 1 | 27,000,000 | 27,150,000 | 361 | 1043 | -0.058107315 | |
| 1 | 27,075,000 | 27,225,000 | 362 | 633 | -0.535067565 | |
| 1 | 27,150,000 | 27,300,000 | 363 | 642 | -1.780952613 | |
| 1 | 27,225,000 | 27,375,000 | 364 | 1264 | -1.166781122 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------|
| 1 | 27,300,000 | 27,450,000 | 365 | 1475 | -0.130977204 | |
| 1 | 27,375,000 | 27,525,000 | 366 | 1489 | 0.344412612 | |
| 1 | 27,450,000 | 27,600,000 | 367 | 1273 | 0.187714246 | |
| 1 | 27,525,000 | 27,675,000 | 368 | 685 | -0.252413472 | |
| 1 | 27,600,000 | 27,750,000 | 369 | 442 | -2.354559646 | |
| 1 | 27,675,000 | 27,825,000 | 370 | 845 | -0.076707155 | |
| 1 | 27,750,000 | 27,900,000 | 371 | 1081 | 0.467967629 | |
| 1 | 27,825,000 | 27,975,000 | 372 | 1036 | -0.444166441 | |
| 1 | 27,900,000 | 28,050,000 | 373 | 1012 | -0.255117805 | |
| 1 | 27,975,000 | 28,125,000 | 374 | 770 | 0.05588249 | |
| 1 | 28,050,000 | 28,200,000 | 375 | 553 | -1.62123677 | |
| 1 | 28,125,000 | 28,275,000 | 376 | 504 | -1.65916752 | |
| 1 | 28,200,000 | 28,350,000 | 377 | 834 | 0.27448736 | |
| 1 | 28,275,000 | 28,425,000 | 378 | 1039 | 0.420616713 | |
| 1 | 28,350,000 | 28,500,000 | 379 | 787 | 0.046527451 | |
| 1 | 28,425,000 | 28,575,000 | 380 | 467 | 0.164058929 | |
| 1 | 28,500,000 | 28,650,000 | 381 | 591 | -1.006070105 | ENSBTAG00000008359 |
| 1 | 28,575,000 | 28,725,000 | 382 | 797 | -0.791686073 | GBE1,ENSBTAG00000008359 |
| 1 | 28,650,000 | 28,800,000 | 383 | 525 | -0.161706756 | GBE1 |
| 1 | 28,725,000 | 28,875,000 | 384 | 659 | 0.745287345 | GBE1 |
| 1 | 28,800,000 | 28,950,000 | 385 | 844 | 0.119032913 | GBE1 |
| 1 | 28,875,000 | 29,025,000 | 386 | 646 | -0.860428561 | GBE1 |
| 1 | 28,950,000 | 29,100,000 | 387 | 910 | 0.699578235 | |
| 1 | 29,025,000 | 29,175,000 | 388 | 875 | 0.44058999 | |
| 1 | 29,100,000 | 29,250,000 | 389 | 472 | -0.723853995 | |
| 1 | 29,175,000 | 29,325,000 | 390 | 980 | 0.268700733 | |
| 1 | 29,250,000 | 29,400,000 | 391 | 1114 | 0.042233594 | |
| 1 | 29,325,000 | 29,475,000 | 392 | 859 | -0.602785964 | |
| 1 | 29,400,000 | 29,550,000 | 393 | 1155 | 0.221113063 | |
| 1 | 29,475,000 | 29,625,000 | 394 | 1206 | 0.397038874 | |
| 1 | 29,550,000 | 29,700,000 | 395 | 1159 | -0.155131376 | |
| 1 | 29,625,000 | 29,775,000 | 396 | 849 | -0.634247318 | |
| 1 | 29,700,000 | 29,850,000 | 397 | 949 | 0.026330326 | |
| 1 | 29,775,000 | 29,925,000 | 398 | 1318 | 0.561356103 | |
| 1 | 29,850,000 | 30,000,000 | 399 | 1278 | 0.0942732 | |
| 1 | 29,925,000 | 30,075,000 | 400 | 907 | -0.555050847 | |
| 1 | 30,000,000 | 30,150,000 | 401 | 786 | -0.103152148 | |
| 1 | 30,075,000 | 30,225,000 | 402 | 1280 | -1.409079885 | |
| 1 | 30,150,000 | 30,300,000 | 403 | 1559 | -0.853493491 | |
| 1 | 30,225,000 | 30,375,000 | 404 | 1561 | 0.36409033 | ENSBTAG00000046383 |
| 1 | 30,300,000 | 30,450,000 | 405 | 997 | 0.207013898 | ENSBTAG00000046383 |
| 1 | 30,375,000 | 30,525,000 | 406 | 588 | 0.070375011 | |
| 1 | 30,450,000 | 30,600,000 | 407 | 747 | -0.093327405 | |
| 1 | 30,525,000 | 30,675,000 | 408 | 1380 | 0.570406834 | |
| 1 | 30,600,000 | 30,750,000 | 409 | 1618 | 0.535178573 | |
| 1 | 30,675,000 | 30,825,000 | 410 | 1086 | -0.501869147 | |
| 1 | 30,750,000 | 30,900,000 | 411 | 924 | -0.437611741 | |
| 1 | 30,825,000 | 30,975,000 | 412 | 903 | -0.169307979 | |
| 1 | 30,900,000 | 31,050,000 | 413 | 744 | -0.676826157 | |
| 1 | 30,975,000 | 31,125,000 | 414 | 1012 | -0.260851522 | |
| 1 | 31,050,000 | 31,200,000 | 415 | 1280 | 0.443620655 | |
| 1 | 31,125,000 | 31,275,000 | 416 | 1109 | 0.336804825 | |
| 1 | 31,200,000 | 31,350,000 | 417 | 1036 | -0.802609933 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------|
| 1 | 31,275,000 | 31,425,000 | 418 | 950 | -1.71608125 | |
| 1 | 31,350,000 | 31,500,000 | 419 | 684 | -1.52673688 | |
| 1 | 31,425,000 | 31,575,000 | 420 | 399 | -0.603592745 | |
| 1 | 31,500,000 | 31,650,000 | 421 | 315 | 0.468256397 | |
| 1 | 31,575,000 | 31,725,000 | 422 | 682 | -0.234355726 | |
| 1 | 31,650,000 | 31,800,000 | 423 | 826 | -0.5512411 | |
| 1 | 31,725,000 | 31,875,000 | 424 | 1013 | 0.91328677 | |
| 1 | 31,800,000 | 31,950,000 | 425 | 1246 | 1.0980992 | |
| 1 | 31,875,000 | 32,025,000 | 426 | 855 | 0.677960697 | |
| 1 | 31,950,000 | 32,100,000 | 427 | 636 | 1.138907929 | |
| 1 | 32,025,000 | 32,175,000 | 428 | 748 | 1.25029368 | |
| 1 | 32,100,000 | 32,250,000 | 429 | 801 | 1.159996907 | |
| 1 | 32,175,000 | 32,325,000 | 430 | 601 | 0.285879042 | |
| 1 | 32,250,000 | 32,400,000 | 431 | 502 | -0.226586544 | |
| 1 | 32,325,000 | 32,475,000 | 432 | 800 | 0.754932582 | |
| 1 | 32,400,000 | 32,550,000 | 433 | 1072 | 0.80424626 | |
| 1 | 32,475,000 | 32,625,000 | 434 | 1253 | 0.036732478 | |
| 1 | 32,550,000 | 32,700,000 | 435 | 1462 | 0.188741571 | |
| 1 | 32,625,000 | 32,775,000 | 436 | 1129 | 0.429500358 | |
| 1 | 32,700,000 | 32,850,000 | 437 | 916 | -0.121485494 | |
| 1 | 32,775,000 | 32,925,000 | 438 | 929 | 0.126645778 | |
| 1 | 32,850,000 | 33,000,000 | 439 | 906 | 0.256731236 | |
| 1 | 32,925,000 | 33,075,000 | 440 | 1223 | 0.18261059 | |
| 1 | 33,000,000 | 33,150,000 | 441 | 1628 | 0.031021694 | |
| 1 | 33,075,000 | 33,225,000 | 442 | 1722 | 0.573281485 | |
| 1 | 33,150,000 | 33,300,000 | 443 | 1296 | 0.70845574 | CADM2 |
| 1 | 33,225,000 | 33,375,000 | 444 | 1063 | -0.262470119 | CADM2 |
| 1 | 33,300,000 | 33,450,000 | 445 | 889 | -0.527434794 | CADM2 |
| 1 | 33,375,000 | 33,525,000 | 446 | 831 | -0.115488197 | CADM2 |
| 1 | 33,450,000 | 33,600,000 | 447 | 1034 | 0.246556969 | CADM2 |
| 1 | 33,525,000 | 33,675,000 | 448 | 1095 | 0.043370425 | CADM2 |
| 1 | 33,600,000 | 33,750,000 | 449 | 1111 | 0.399541276 | CADM2 |
| 1 | 33,675,000 | 33,825,000 | 450 | 819 | 1.203048255 | |
| 1 | 33,750,000 | 33,900,000 | 451 | 384 | 1.09050222 | |
| 1 | 33,825,000 | 33,975,000 | 452 | 465 | -0.413673226 | |
| 1 | 33,900,000 | 34,050,000 | 453 | 966 | -2.592696153 | |
| 1 | 33,975,000 | 34,125,000 | 454 | 1081 | -1.439710224 | |
| 1 | 34,050,000 | 34,200,000 | 455 | 903 | 0.13973616 | |
| 1 | 34,125,000 | 34,275,000 | 456 | 930 | -1.9111755 | |
| 1 | 34,200,000 | 34,350,000 | 457 | 785 | -2.575399875 | |
| 1 | 34,275,000 | 34,425,000 | 458 | 554 | -0.893160551 | |
| 1 | 34,350,000 | 34,500,000 | 459 | 754 | -1.902618874 | |
| 1 | 34,425,000 | 34,575,000 | 460 | 828 | -1.248409676 | |
| 1 | 34,500,000 | 34,650,000 | 461 | 605 | -0.399496942 | |
| 1 | 34,575,000 | 34,725,000 | 462 | 405 | -1.036295152 | VGLL3 |
| 1 | 34,650,000 | 34,800,000 | 463 | 460 | -0.332580997 | VGLL3 |
| 1 | 34,725,000 | 34,875,000 | 464 | 577 | -0.019524014 | |
| 1 | 34,800,000 | 34,950,000 | 465 | 493 | 0.381456322 | |
| 1 | 34,875,000 | 35,025,000 | 466 | 584 | 0.572796291 | CHMP2B,PIT-1 |
| 1 | 34,950,000 | 35,100,000 | 467 | 736 | 0.214097662 | CHMP2B,PIT-1 |
| 1 | 35,025,000 | 35,175,000 | 468 | 841 | 0.282636949 | |
| 1 | 35,100,000 | 35,250,000 | 469 | 1174 | -1.693715391 | |
| 1 | 35,175,000 | 35,325,000 | 470 | 1288 | -2.12414316 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 1 | 35,250,000 | 35,400,000 | 471 | 809 | -0.406609501 | |
| 1 | 35,325,000 | 35,475,000 | 472 | 732 | 1.022708092 | |
| 1 | 35,400,000 | 35,550,000 | 473 | 673 | 1.125245054 | |
| 1 | 35,475,000 | 35,625,000 | 474 | 542 | 1.30694911 | 5HTR1F |
| 1 | 35,550,000 | 35,700,000 | 475 | 510 | 1.247333788 | 5HTR1F,CGGBP1,ZNF654 |
| 1 | 35,625,000 | 35,775,000 | 476 | 349 | 0.971084296 | C3orf38,CGGBP1,ZNF654 |
| 1 | 35,700,000 | 35,850,000 | 477 | 552 | 1.034308659 | C3orf38,ZNF654 |
| 1 | 35,775,000 | 35,925,000 | 478 | 717 | 0.620221917 | |
| 1 | 35,850,000 | 36,000,000 | 479 | 1023 | 0.292434834 | |
| 1 | 35,925,000 | 36,075,000 | 480 | 1289 | -0.000957843 | |
| 1 | 36,000,000 | 36,150,000 | 481 | 942 | -0.085709769 | ENSBTAG00000045590 |
| 1 | 36,075,000 | 36,225,000 | 482 | 517 | 0.50600663 | ENSBTAG00000045590 |
| 1 | 36,150,000 | 36,300,000 | 483 | 749 | 0.39810495 | |
| 1 | 36,225,000 | 36,375,000 | 484 | 760 | 0.264623295 | |
| 1 | 36,300,000 | 36,450,000 | 485 | 658 | -0.620749435 | |
| 1 | 36,375,000 | 36,525,000 | 486 | 712 | -2.261914364 | |
| 1 | 36,450,000 | 36,600,000 | 487 | 584 | -0.832746036 | |
| 1 | 36,525,000 | 36,675,000 | 488 | 668 | -0.197251888 | |
| 1 | 36,600,000 | 36,750,000 | 489 | 751 | -0.239008471 | |
| 1 | 36,675,000 | 36,825,000 | 490 | 569 | 0.024114592 | |
| 1 | 36,750,000 | 36,900,000 | 491 | 498 | 0.276277906 | EPHA3 |
| 1 | 36,825,000 | 36,975,000 | 492 | 630 | 0.229991417 | EPHA3 |
| 1 | 36,900,000 | 37,050,000 | 493 | 662 | 0.953600523 | EPHA3 |
| 1 | 36,975,000 | 37,125,000 | 494 | 511 | 1.456985535 | EPHA3 |
| 1 | 37,050,000 | 37,200,000 | 495 | 471 | 0.034712838 | EPHA3 |
| 1 | 37,125,000 | 37,275,000 | 496 | 721 | -1.93039076 | |
| 1 | 37,200,000 | 37,350,000 | 497 | 1058 | -2.170986209 | |
| 1 | 37,275,000 | 37,425,000 | 498 | 1176 | -1.654833197 | |
| 1 | 37,350,000 | 37,500,000 | 499 | 828 | -0.886786821 | |
| 1 | 37,425,000 | 37,575,000 | 500 | 963 | 0.547039478 | |
| 1 | 37,500,000 | 37,650,000 | 501 | 1229 | 0.541012963 | |
| 1 | 37,575,000 | 37,725,000 | 502 | 804 | 0.305950095 | |
| 1 | 37,650,000 | 37,800,000 | 503 | 516 | -0.420599924 | |
| 1 | 37,725,000 | 37,875,000 | 504 | 956 | -0.085468166 | PROS1 |
| 1 | 37,800,000 | 37,950,000 | 505 | 812 | -0.005274697 | ARL13B,PROS1,STX19 |
| 1 | 37,875,000 | 38,025,000 | 506 | 254 | 0.288139552 | ARL13B,NSUN3,STX19 |
| 1 | 37,950,000 | 38,100,000 | 507 | 226 | 0.735156495 | ARL13B,NSUN3 |
| 1 | 38,025,000 | 38,175,000 | 508 | 349 | -2.887816022 | |
| 1 | 38,100,000 | 38,250,000 | 509 | 660 | -2.300116489 | |
| 1 | 38,175,000 | 38,325,000 | 510 | 1334 | 0.327399741 | |
| 1 | 38,250,000 | 38,400,000 | 511 | 1550 | 0.508809907 | |
| 1 | 38,325,000 | 38,475,000 | 512 | 1087 | 0.673044622 | |
| 1 | 38,400,000 | 38,550,000 | 513 | 793 | 0.684347113 | |
| 1 | 38,475,000 | 38,625,000 | 514 | 583 | 0.29235846 | |
| 1 | 38,550,000 | 38,700,000 | 515 | 611 | 0.152671251 | |
| 1 | 38,625,000 | 38,775,000 | 516 | 731 | 0.686154389 | |
| 1 | 38,700,000 | 38,850,000 | 517 | 680 | -0.166647464 | |
| 1 | 38,775,000 | 38,925,000 | 518 | 925 | 0.107444502 | |
| 1 | 38,850,000 | 39,000,000 | 519 | 1334 | 1.254520142 | |
| 1 | 38,925,000 | 39,075,000 | 520 | 1120 | 1.4365111 | |
| 1 | 39,000,000 | 39,150,000 | 521 | 722 | 0.353050919 | |
| 1 | 39,075,000 | 39,225,000 | 522 | 609 | -1.145913468 | |
| 1 | 39,150,000 | 39,300,000 | 523 | 986 | -1.504141145 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 39,225,000 | 39,375,000 | 524 | 1459 | -1.038180218 | |
| 1 | 39,300,000 | 39,450,000 | 525 | 1057 | -0.134465193 | |
| 1 | 39,375,000 | 39,525,000 | 526 | 723 | -1.684897454 | |
| 1 | 39,450,000 | 39,600,000 | 527 | 1221 | -0.313781491 | |
| 1 | 39,525,000 | 39,675,000 | 528 | 1387 | 0.439649367 | |
| 1 | 39,600,000 | 39,750,000 | 529 | 1055 | 0.63375621 | |
| 1 | 39,675,000 | 39,825,000 | 530 | 980 | 0.312662487 | |
| 1 | 39,750,000 | 39,900,000 | 531 | 1023 | 0.177003762 | |
| 1 | 39,825,000 | 39,975,000 | 532 | 721 | 0.47004459 | |
| 1 | 39,900,000 | 40,050,000 | 533 | 362 | -0.515891335 | |
| 1 | 39,975,000 | 40,125,000 | 534 | 437 | -0.656387837 | |
| 1 | 40,050,000 | 40,200,000 | 535 | 816 | -0.251909682 | |
| 1 | 40,125,000 | 40,275,000 | 536 | 1328 | -1.532793668 | |
| 1 | 40,200,000 | 40,350,000 | 537 | 1502 | -1.718637207 | |
| 1 | 40,275,000 | 40,425,000 | 538 | 1295 | -0.096096697 | |
| 1 | 40,350,000 | 40,500,000 | 539 | 815 | 0.574937049 | |
| 1 | 40,425,000 | 40,575,000 | 540 | 580 | 0.863309771 | |
| 1 | 40,500,000 | 40,650,000 | 541 | 933 | 0.095633896 | EPHA6 |
| 1 | 40,575,000 | 40,725,000 | 542 | 871 | -0.283492062 | EPHA6 |
| 1 | 40,650,000 | 40,800,000 | 543 | 609 | 0.357121353 | EPHA6 |
| 1 | 40,725,000 | 40,875,000 | 544 | 774 | -0.414298331 | EPHA6 |
| 1 | 40,800,000 | 40,950,000 | 545 | 972 | -1.288669822 | EPHA6 |
| 1 | 40,875,000 | 41,025,000 | 546 | 936 | -0.774357392 | EPHA6 |
| 1 | 40,950,000 | 41,100,000 | 547 | 791 | 0.190755038 | EPHA6 |
| 1 | 41,025,000 | 41,175,000 | 548 | 648 | 0.040192807 | EPHA6 |
| 1 | 41,100,000 | 41,250,000 | 549 | 616 | -0.884233162 | EPHA6 |
| 1 | 41,175,000 | 41,325,000 | 550 | 679 | -0.745844886 | EPHA6 |
| 1 | 41,250,000 | 41,400,000 | 551 | 812 | -0.756889248 | EPHA6 |
| 1 | 41,325,000 | 41,475,000 | 552 | 846 | -0.199266627 | EPHA6 |
| 1 | 41,400,000 | 41,550,000 | 553 | 791 | 0.695733303 | EPHA6 |
| 1 | 41,475,000 | 41,625,000 | 554 | 897 | 0.577336203 | EPHA6 |
| 1 | 41,550,000 | 41,700,000 | 555 | 706 | 0.669179484 | ARL6,EPHA6 |
| 1 | 41,625,000 | 41,775,000 | 556 | 663 | 1.070327523 | ARL6,CRYBG3,ENSBTAG00000047147 |
| 1 | 41,700,000 | 41,850,000 | 557 | 688 | 0.896144439 | CRYBG3,MINA,ENSBTAG00000047147 |
| 1 | 41,775,000 | 41,925,000 | 558 | 779 | 0.339919568 | CRYBG3,GABRR3,MINA |
| 1 | 41,850,000 | 42,000,000 | 559 | 1214 | -0.141842977 | GABRR3,MINA,ENSBTAG00000023668,ENSBTAG0000047095 |
| 1 | 41,925,000 | 42,075,000 | 560 | 1436 | 0.011752251 | ENSBTAG00000023668,ENSBTAG00000047095 |
| 1 | 42,000,000 | 42,150,000 | 561 | 1908 | 0.631367257 | ENSBTAG00000022908,ENSBTAG00000027113 |
| 1 | 42,075,000 | 42,225,000 | 562 | 1877 | -0.79006706 | ENSBTAG00000022908,ENSBTAG00000027113,ENSBTAG00000033437 |
| 1 | 42,150,000 | 42,300,000 | 563 | 1491 | -1.492763482 | ENSBTAG00000033437 |
| 1 | 42,225,000 | 42,375,000 | 564 | 1094 | 0.213034921 | ENSBTAG00000037820,ENSBTAG00000047371 |
| 1 | 42,300,000 | 42,450,000 | 565 | 523 | 0.613274909 | ENSBTAG00000027782,ENSBTAG00000037820,ENSBTAG00000047371 |
| 1 | 42,375,000 | 42,525,000 | 566 | 485 | 0.278964144 | CLDND1,CPOX,GPR15,ENSBTAG00000027782 |
| 1 | 42,450,000 | 42,600,000 | 567 | 908 | 0.228917171 | CLDND1,CPOX,GPR15,ENSBTAG00000023666 |
| 1 | 42,525,000 | 42,675,000 | 568 | 926 | 0.456846049 | CPOX,ENSBTAG00000023666 |
| 1 | 42,600,000 | 42,750,000 | 569 | 584 | 0.765872633 | DCBLD2,ST3GAL6 |
| 1 | 42,675,000 | 42,825,000 | 570 | 711 | 0.099161307 | DCBLD2,ST3GAL6 |
| 1 | 42,750,000 | 42,900,000 | 571 | 805 | 0.197395481 | DCBLD2 |
| 1 | 42,825,000 | 42,975,000 | 572 | 987 | 0.941215198 | |
| 1 | 42,900,000 | 43,050,000 | 573 | 1173 | 0.221058598 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 42,975,000 | 43,125,000 | 574 | 979 | -1.025059186 | |
| 1 | 43,050,000 | 43,200,000 | 575 | 939 | -0.08176635 | |
| 1 | 43,125,000 | 43,275,000 | 576 | 1002 | -1.207284419 | |
| 1 | 43,200,000 | 43,350,000 | 577 | 1122 | -1.34202851 | |
| 1 | 43,275,000 | 43,425,000 | 578 | 1365 | -0.224306599 | |
| 1 | 43,350,000 | 43,500,000 | 579 | 1387 | 0.361814822 | |
| 1 | 43,425,000 | 43,575,000 | 580 | 1170 | 0.852264334 | COL8A1 |
| 1 | 43,500,000 | 43,650,000 | 581 | 1048 | 0.318295822 | COL8A1 |
| 1 | 43,575,000 | 43,725,000 | 582 | 1152 | 0.496732611 | COL8A1 |
| 1 | 43,650,000 | 43,800,000 | 583 | 1094 | 1.070296689 | CMSS1,COL8A1,FILIP1L |
| 1 | 43,725,000 | 43,875,000 | 584 | 710 | 0.9850686 | CMSS1,FILIP1L |
| 1 | 43,800,000 | 43,950,000 | 585 | 543 | 0.587359 | CMSS1 |
| 1 | 43,875,000 | 44,025,000 | 586 | 527 | -0.17225122 | CMSS1 |
| 1 | 43,950,000 | 44,100,000 | 587 | 465 | -0.883239954 | CMSS1 |
| 1 | 44,025,000 | 44,175,000 | 588 | 549 | -0.836710391 | CMSS1,TMEM30C |
| 1 | 44,100,000 | 44,250,000 | 589 | 714 | -1.717670131 | CMSS1,TBC1D23,TMEM30C |
| 1 | 44,175,000 | 44,325,000 | 590 | 876 | -0.448155153 | NIT2,TBC1D23,TOMM70A |
| 1 | 44,250,000 | 44,400,000 | 591 | 933 | 0.722429449 | LNP1,NIT2,TBC1D23,TOMM70A,ENSBTAG0000001332 1 |
| 1 | 44,325,000 | 44,475,000 | 592 | 881 | 0.726602214 | LNP1,TOMM70A,ENSBTAG00000013321 |
| 1 | 44,400,000 | 44,550,000 | 593 | 1031 | 0.622113127 | ENSBTAG00000013321 |
| 1 | 44,475,000 | 44,625,000 | 594 | 1598 | 0.984791424 | ENSBTAG00000013321 |
| 1 | 44,550,000 | 44,700,000 | 595 | 1609 | 1.137083649 | EFHB |
| 1 | 44,625,000 | 44,775,000 | 596 | 1135 | 0.878960573 | EFHB,PP2D1,RAB5A |
| 1 | 44,700,000 | 44,850,000 | 597 | 1241 | 0.528715808 | EFHB,PP2D1,RAB5A |
| 1 | 44,775,000 | 44,925,000 | 598 | 1148 | 0.100681658 | PCAF |
| 1 | 44,850,000 | 45,000,000 | 599 | 895 | -0.797307955 | PCAF,SGOL1 |
| 1 | 44,925,000 | 45,075,000 | 600 | 1094 | 0.248890562 | PCAF,PRDM9,SGOL1 |
| 1 | 45,000,000 | 45,150,000 | 601 | 1030 | 0.625163499 | PRDM9,ENSBTAG00000047076 |
| 1 | 45,075,000 | 45,225,000 | 602 | 1093 | -0.487170279 | PRDM9,ENSBTAG00000047076 |
| 1 | 45,150,000 | 45,300,000 | 603 | 1307 | -0.215228571 | ENSBTAG00000004459 |
| 1 | 45,225,000 | 45,375,000 | 604 | 1296 | 0.689713863 | ENSBTAG00000004459 |
| 1 | 45,300,000 | 45,450,000 | 605 | 1186 | 0.332961745 | GPR128,ENSBTAG00000004459 |
| 1 | 45,375,000 | 45,525,000 | 606 | 918 | 0.174406144 | ABI3BP,GPR128,TFG,ENSBTAG00000004459 |
| 1 | 45,450,000 | 45,600,000 | 607 | 1027 | 0.931818504 | ABI3BP,GPR128,TFG |
| 1 | 45,525,000 | 45,675,000 | 608 | 1143 | 0.787888978 | ABI3BP |
| 1 | 45,600,000 | 45,750,000 | 609 | 1056 | -0.455112022 | ABI3BP |
| 1 | 45,675,000 | 45,825,000 | 610 | 1085 | -0.464773415 | ABI3BP |
| 1 | 45,750,000 | 45,900,000 | 611 | 893 | 0.527876914 | ABI3BP |
| 1 | 45,825,000 | 45,975,000 | 612 | 956 | 1.171866079 | |
| 1 | 45,900,000 | 46,050,000 | 613 | 847 | 1.314380434 | |
| 1 | 45,975,000 | 46,125,000 | 614 | 401 | 0.857500655 | IMPG2 |
| 1 | 46,050,000 | 46,200,000 | 615 | 295 | 0.289066062 | IMPG2,SEN7 |
| 1 | 46,125,000 | 46,275,000 | 616 | 342 | 0.432240983 | IMPG2,SEN7 |
| 1 | 46,200,000 | 46,350,000 | 617 | 379 | -0.050927789 | FAM172A,SEN7,TRMT10C |
| 1 | 46,275,000 | 46,425,000 | 618 | 384 | 0.163826179 | FAM172A,PCNP,RPL24,SEN7,TRMT10C,ZBTB11 |
| 1 | 46,350,000 | 46,500,000 | 619 | 456 | 1.126455427 | CEP97,NXPE3,PCNP,RPL24,ZBTB11 |
| 1 | 46,425,000 | 46,575,000 | 620 | 548 | 1.399266246 | CEP97,NFKBIZ,NXPE3 |
| 1 | 46,500,000 | 46,650,000 | 621 | 474 | 1.363935934 | NFKBIZ,NXPE3 |
| 1 | 46,575,000 | 46,725,000 | 622 | 567 | 0.612442699 | |
| 1 | 46,650,000 | 46,800,000 | 623 | 845 | 0.657134738 | |
| 1 | 46,725,000 | 46,875,000 | 624 | 978 | 0.884193592 | |
| 1 | 46,800,000 | 46,950,000 | 625 | 866 | 0.87454502 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 1 | 46,875,000 | 47,025,000 | 626 | 813 | 0.794921259 | ENSBTAG00000024806 |
| 1 | 46,950,000 | 47,100,000 | 627 | 787 | 0.88824377 | ENSBTAG00000024806,ENSBTAG00000047093 |
| 1 | 47,025,000 | 47,175,000 | 628 | 1198 | 1.028329869 | ENSBTAG00000047093 |
| 1 | 47,100,000 | 47,250,000 | 629 | 1547 | 1.17564783 | |
| 1 | 47,175,000 | 47,325,000 | 630 | 1047 | 0.927182566 | ZPLD1 |
| 1 | 47,250,000 | 47,400,000 | 631 | 984 | 0.871080663 | ZPLD1 |
| 1 | 47,325,000 | 47,475,000 | 632 | 999 | 0.378011647 | |
| 1 | 47,400,000 | 47,550,000 | 633 | 552 | -0.868278059 | |
| 1 | 47,475,000 | 47,625,000 | 634 | 539 | 0.856880945 | |
| 1 | 47,550,000 | 47,700,000 | 635 | 936 | 0.70693214 | |
| 1 | 47,625,000 | 47,775,000 | 636 | 1019 | 0.293024513 | |
| 1 | 47,700,000 | 47,850,000 | 637 | 590 | 0.063633363 | |
| 1 | 47,775,000 | 47,925,000 | 638 | 572 | 0.723721087 | |
| 1 | 47,850,000 | 48,000,000 | 639 | 1129 | 0.288594437 | |
| 1 | 47,925,000 | 48,075,000 | 640 | 1538 | -0.778384508 | |
| 1 | 48,000,000 | 48,150,000 | 641 | 1672 | -1.491707952 | |
| 1 | 48,075,000 | 48,225,000 | 642 | 1360 | -1.730824893 | |
| 1 | 48,150,000 | 48,300,000 | 643 | 835 | -1.51518606 | |
| 1 | 48,225,000 | 48,375,000 | 644 | 928 | 0.264144645 | |
| 1 | 48,300,000 | 48,450,000 | 645 | 1263 | 0.482963742 | |
| 1 | 48,375,000 | 48,525,000 | 646 | 1550 | -0.11779066 | |
| 1 | 48,450,000 | 48,600,000 | 647 | 1689 | 0.194795174 | |
| 1 | 48,525,000 | 48,675,000 | 648 | 1457 | 0.450043503 | |
| 1 | 48,600,000 | 48,750,000 | 649 | 1224 | -0.221129367 | |
| 1 | 48,675,000 | 48,825,000 | 650 | 1145 | 0.056689922 | |
| 1 | 48,750,000 | 48,900,000 | 651 | 1360 | 0.604241348 | |
| 1 | 48,825,000 | 48,975,000 | 652 | 1274 | -0.175772636 | |
| 1 | 48,900,000 | 49,050,000 | 653 | 1082 | -0.543322481 | |
| 1 | 48,975,000 | 49,125,000 | 654 | 1276 | 0.486836436 | |
| 1 | 49,050,000 | 49,200,000 | 655 | 1122 | -0.09130909 | |
| 1 | 49,125,000 | 49,275,000 | 656 | 951 | -0.581743194 | |
| 1 | 49,200,000 | 49,350,000 | 657 | 1100 | 0.634139074 | |
| 1 | 49,275,000 | 49,425,000 | 658 | 988 | 0.637792408 | |
| 1 | 49,350,000 | 49,500,000 | 659 | 857 | 0.604971036 | |
| 1 | 49,425,000 | 49,575,000 | 660 | 685 | 0.231640895 | |
| 1 | 49,500,000 | 49,650,000 | 661 | 801 | -0.881897808 | |
| 1 | 49,575,000 | 49,725,000 | 662 | 1176 | -0.593242632 | |
| 1 | 49,650,000 | 49,800,000 | 663 | 1114 | 0.308996936 | |
| 1 | 49,725,000 | 49,875,000 | 664 | 929 | 0.282537776 | |
| 1 | 49,800,000 | 49,950,000 | 665 | 964 | 0.228750139 | |
| 1 | 49,875,000 | 50,025,000 | 666 | 1165 | 1.234094964 | |
| 1 | 49,950,000 | 50,100,000 | 667 | 1368 | 1.143805771 | |
| 1 | 50,025,000 | 50,175,000 | 668 | 1116 | 0.533677323 | |
| 1 | 50,100,000 | 50,250,000 | 669 | 867 | -0.642277202 | |
| 1 | 50,175,000 | 50,325,000 | 670 | 913 | -0.799072909 | |
| 1 | 50,250,000 | 50,400,000 | 671 | 711 | -0.048072514 | ALCAM |
| 1 | 50,325,000 | 50,475,000 | 672 | 606 | -0.212193936 | ALCAM |
| 1 | 50,400,000 | 50,550,000 | 673 | 778 | 0.274607389 | ALCAM |
| 1 | 50,475,000 | 50,625,000 | 674 | 995 | 0.86077045 | ALCAM |
| 1 | 50,550,000 | 50,700,000 | 675 | 1064 | -0.982314985 | ALCAM,CBLB |
| 1 | 50,625,000 | 50,775,000 | 676 | 657 | -1.556612209 | CBLB |
| 1 | 50,700,000 | 50,850,000 | 677 | 438 | 0.048970325 | CBLB |
| 1 | 50,775,000 | 50,925,000 | 678 | 769 | 0.408933018 | CBLB |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 1 | 50,850,000 | 51,000,000 | 679 | 1230 | 1.114037689 | CBLB |
| 1 | 50,925,000 | 51,075,000 | 680 | 1385 | 0.773877055 | ENSBTAG00000005414 |
| 1 | 51,000,000 | 51,150,000 | 681 | 922 | 0.408703482 | ENSBTAG00000005414 |
| 1 | 51,075,000 | 51,225,000 | 682 | 767 | 1.104324471 | |
| 1 | 51,150,000 | 51,300,000 | 683 | 1121 | 0.811748693 | |
| 1 | 51,225,000 | 51,375,000 | 684 | 1215 | 1.00505248 | |
| 1 | 51,300,000 | 51,450,000 | 685 | 1182 | 0.972250502 | |
| 1 | 51,375,000 | 51,525,000 | 686 | 989 | 0.149465459 | |
| 1 | 51,450,000 | 51,600,000 | 687 | 1026 | 0.491029794 | |
| 1 | 51,525,000 | 51,675,000 | 688 | 914 | 0.667184551 | |
| 1 | 51,600,000 | 51,750,000 | 689 | 776 | 0.706407489 | |
| 1 | 51,675,000 | 51,825,000 | 690 | 891 | 1.149279544 | |
| 1 | 51,750,000 | 51,900,000 | 691 | 714 | 0.553350455 | |
| 1 | 51,825,000 | 51,975,000 | 692 | 529 | -0.539145869 | |
| 1 | 51,900,000 | 52,050,000 | 693 | 709 | -0.025968243 | |
| 1 | 51,975,000 | 52,125,000 | 694 | 1051 | 0.05604647 | |
| 1 | 52,050,000 | 52,200,000 | 695 | 926 | 0.106017204 | |
| 1 | 52,125,000 | 52,275,000 | 696 | 792 | 0.592539556 | |
| 1 | 52,200,000 | 52,350,000 | 697 | 652 | 0.516066792 | |
| 1 | 52,275,000 | 52,425,000 | 698 | 662 | 0.070508708 | CCDC54 |
| 1 | 52,350,000 | 52,500,000 | 699 | 557 | 0.121088896 | CCDC54 |
| 1 | 52,425,000 | 52,575,000 | 700 | 350 | -0.314118673 | BBX |
| 1 | 52,500,000 | 52,650,000 | 701 | 573 | -0.271305586 | BBX |
| 1 | 52,575,000 | 52,725,000 | 702 | 763 | 0.171530119 | BBX |
| 1 | 52,650,000 | 52,800,000 | 703 | 872 | -0.239260142 | BBX |
| 1 | 52,725,000 | 52,875,000 | 704 | 1118 | 0.25635588 | BBX |
| 1 | 52,800,000 | 52,950,000 | 705 | 1453 | 0.289880115 | BBX |
| 1 | 52,875,000 | 53,025,000 | 706 | 1659 | -0.086974383 | |
| 1 | 52,950,000 | 53,100,000 | 707 | 1525 | 0.409049036 | |
| 1 | 53,025,000 | 53,175,000 | 708 | 1198 | 0.777431327 | CD47 |
| 1 | 53,100,000 | 53,250,000 | 709 | 1229 | 0.674117693 | CD47 |
| 1 | 53,175,000 | 53,325,000 | 710 | 1275 | 0.507350162 | IFT57 |
| 1 | 53,250,000 | 53,400,000 | 711 | 1168 | 0.191526952 | IFT57 |
| 1 | 53,325,000 | 53,475,000 | 712 | 1338 | 0.515516799 | IFT57 |
| 1 | 53,400,000 | 53,550,000 | 713 | 1469 | 0.764339773 | HHLA2,MYH15 |
| 1 | 53,475,000 | 53,625,000 | 714 | 1408 | -0.458174851 | HHLA2,MYH15 |
| 1 | 53,550,000 | 53,700,000 | 715 | 1421 | -0.710163204 | MYH15 |
| 1 | 53,625,000 | 53,775,000 | 716 | 1366 | -0.345071028 | DZIP3,KIAA1524,MYH15 |
| 1 | 53,700,000 | 53,850,000 | 717 | 1098 | -0.105890123 | DZIP3,KIAA1524 |
| 1 | 53,775,000 | 53,925,000 | 718 | 1079 | 0.643563839 | DZIP3 |
| 1 | 53,850,000 | 54,000,000 | 719 | 1309 | 0.794611789 | DZIP3,TRAT1 |
| 1 | 53,925,000 | 54,075,000 | 720 | 1542 | 0.617304438 | TRAT1 |
| 1 | 54,000,000 | 54,150,000 | 721 | 1943 | 0.633103791 | MORC1,TRAT1 |
| 1 | 54,075,000 | 54,225,000 | 722 | 1930 | 0.703296644 | MORC1 |
| 1 | 54,150,000 | 54,300,000 | 723 | 1449 | 0.562001547 | MORC1 |
| 1 | 54,225,000 | 54,375,000 | 724 | 1405 | 1.068674915 | MORC1 |
| 1 | 54,300,000 | 54,450,000 | 725 | 1554 | 1.013307775 | MORC1 |
| 1 | 54,375,000 | 54,525,000 | 726 | 1378 | 0.584684282 | DPPA2,ENSBTAG00000038103 |
| 1 | 54,450,000 | 54,600,000 | 727 | 1466 | 0.698687211 | DPPA2,ENSBTAG00000038103 |
| 1 | 54,525,000 | 54,675,000 | 728 | 1700 | 0.920566293 | RPL10 |
| 1 | 54,600,000 | 54,750,000 | 729 | 1206 | 0.355889994 | RPL10 |
| 1 | 54,675,000 | 54,825,000 | 730 | 812 | -3.951528116 | |
| 1 | 54,750,000 | 54,900,000 | 731 | 863 | -4.683962865 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 1 | 54,825,000 | 54,975,000 | 732 | 1044 | -0.825237098 | |
| 1 | 54,900,000 | 55,050,000 | 733 | 1210 | 0.67996839 | |
| 1 | 54,975,000 | 55,125,000 | 734 | 1096 | 0.314945224 | |
| 1 | 55,050,000 | 55,200,000 | 735 | 1223 | -0.408311094 | |
| 1 | 55,125,000 | 55,275,000 | 736 | 1228 | -0.817399836 | |
| 1 | 55,200,000 | 55,350,000 | 737 | 1038 | -0.548559467 | |
| 1 | 55,275,000 | 55,425,000 | 738 | 1064 | -0.431226834 | |
| 1 | 55,350,000 | 55,500,000 | 739 | 1122 | -0.160709002 | |
| 1 | 55,425,000 | 55,575,000 | 740 | 1056 | 0.503280352 | |
| 1 | 55,500,000 | 55,650,000 | 741 | 1039 | 0.50200988 | |
| 1 | 55,575,000 | 55,725,000 | 742 | 903 | -0.255561932 | |
| 1 | 55,650,000 | 55,800,000 | 743 | 925 | -0.829680497 | |
| 1 | 55,725,000 | 55,875,000 | 744 | 1204 | 0.295653106 | ENSBTAG00000045855 |
| 1 | 55,800,000 | 55,950,000 | 745 | 1391 | 1.217985321 | ENSBTAG00000045855 |
| 1 | 55,875,000 | 56,025,000 | 746 | 1522 | 0.679119422 | |
| 1 | 55,950,000 | 56,100,000 | 747 | 1687 | 0.109593082 | ENSBTAG00000045820 |
| 1 | 56,025,000 | 56,175,000 | 748 | 1652 | 0.496284547 | ENSBTAG00000038651,ENSBTAG00000045820 |
| 1 | 56,100,000 | 56,250,000 | 749 | 1083 | 0.836391261 | ENSBTAG00000038651 |
| 1 | 56,175,000 | 56,325,000 | 750 | 956 | 1.06908004 | |
| 1 | 56,250,000 | 56,400,000 | 751 | 862 | 0.901146965 | PVRL3 |
| 1 | 56,325,000 | 56,475,000 | 752 | 766 | 0.992714335 | PVRL3 |
| 1 | 56,400,000 | 56,550,000 | 753 | 1168 | 1.000676273 | |
| 1 | 56,475,000 | 56,625,000 | 754 | 1343 | 0.345327994 | |
| 1 | 56,550,000 | 56,700,000 | 755 | 1524 | 0.178651481 | |
| 1 | 56,625,000 | 56,775,000 | 756 | 1490 | 0.174558601 | CD96,ZBED2 |
| 1 | 56,700,000 | 56,850,000 | 757 | 1617 | -0.139372504 | CD96,PLCXD2,ZBED2 |
| 1 | 56,775,000 | 56,925,000 | 758 | 1610 | -0.443051393 | CD96,PLCXD2 |
| 1 | 56,850,000 | 57,000,000 | 759 | 1236 | -1.197323026 | PLCXD2 |
| 1 | 56,925,000 | 57,075,000 | 760 | 1048 | -0.63733088 | PHLDB2 |
| 1 | 57,000,000 | 57,150,000 | 761 | 823 | 0.354208339 | PHLDB2 |
| 1 | 57,075,000 | 57,225,000 | 762 | 981 | 0.306980247 | ABHD10,PHLDB2,TAGLN3,TMPRSS7 |
| 1 | 57,150,000 | 57,300,000 | 763 | 1010 | 0.061414601 | ABHD10,C3orf52,TAGLN3,TMPRSS7 |
| 1 | 57,225,000 | 57,375,000 | 764 | 1023 | -0.06892693 | C3orf52,GCSAM,SLC9C1,TMPRSS7 |
| 1 | 57,300,000 | 57,450,000 | 765 | 1081 | -0.087999918 | C3orf52,GCSAM,SLC9C1 |
| 1 | 57,375,000 | 57,525,000 | 766 | 723 | 0.010686529 | SLC9C1 |
| 1 | 57,450,000 | 57,600,000 | 767 | 527 | 0.272208024 | CD200,SLC9C1 |
| 1 | 57,525,000 | 57,675,000 | 768 | 883 | 0.136150687 | BTLA,CD200 |
| 1 | 57,600,000 | 57,750,000 | 769 | 823 | 0.32669639 | BTLA |
| 1 | 57,675,000 | 57,825,000 | 770 | 416 | 0.001327735 | ATG3,BTLA,CCDC80,SLC35A5 |
| 1 | 57,750,000 | 57,900,000 | 771 | 413 | 0.255447866 | ATG3,CCDC80,SLC35A5 |
| 1 | 57,825,000 | 57,975,000 | 772 | 545 | 0.792077081 | CCDC80 |
| 1 | 57,900,000 | 58,050,000 | 773 | 737 | 0.823377565 | ENSBTAG00000040144 |
| 1 | 57,975,000 | 58,125,000 | 774 | 1095 | 0.492428916 | CD200R1,ENSBTAG00000040144 |
| 1 | 58,050,000 | 58,200,000 | 775 | 1019 | 0.461917532 | C3orf17,CD200R1,GTPBP8 |
| 1 | 58,125,000 | 58,275,000 | 776 | 629 | 0.765968736 | C3orf17,CD200R1,GTPBP8 |
| 1 | 58,200,000 | 58,350,000 | 777 | 946 | 0.570731143 | |
| 1 | 58,275,000 | 58,425,000 | 778 | 881 | 0.245898087 | |
| 1 | 58,350,000 | 58,500,000 | 779 | 372 | -0.303445168 | BOC,CFAP44 |
| 1 | 58,425,000 | 58,575,000 | 780 | 491 | 0.725376759 | BOC,CFAP44 |
| 1 | 58,500,000 | 58,650,000 | 781 | 621 | 0.333768203 | CFAP44,SPICE1 |
| 1 | 58,575,000 | 58,725,000 | 782 | 656 | -3.074767142 | CFAP44,SIDT1,SPICE1 |
| 1 | 58,650,000 | 58,800,000 | 783 | 687 | -3.155410522 | KIAA2018,SIDT1 |
| 1 | 58,725,000 | 58,875,000 | 784 | 381 | -0.344719605 | KIAA2018,NAA50,SIDT1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 1 | 58,800,000 | 58,950,000 | 785 | 570 | 0.46960821 | ATP6V1A,KIAA2018,NAA50 |
| 1 | 58,875,000 | 59,025,000 | 786 | 643 | 0.762723279 | ATP6V1A,GRAMD1C,NAA50 |
| 1 | 58,950,000 | 59,100,000 | 787 | 469 | 1.083574698 | GRAMD1C,KIAA1407,ZDHHC23 |
| 1 | 59,025,000 | 59,175,000 | 788 | 502 | 1.061433428 | GRAMD1C,KIAA1407,ZDHHC23 |
| 1 | 59,100,000 | 59,250,000 | 789 | 509 | 0.676961049 | KIAA1407,QTRTD1 |
| 1 | 59,175,000 | 59,325,000 | 790 | 635 | 0.383305859 | DRD3,KIAA1407,QTRTD1 |
| 1 | 59,250,000 | 59,400,000 | 791 | 576 | 0.165498056 | DRD3,TIGIT |
| 1 | 59,325,000 | 59,475,000 | 792 | 518 | -0.285393721 | DRD3,TIGIT,ZBTB20 |
| 1 | 59,400,000 | 59,550,000 | 793 | 475 | -0.411679197 | ZBTB20 |
| 1 | 59,475,000 | 59,625,000 | 794 | 461 | 0.343295031 | ZBTB20 |
| 1 | 59,550,000 | 59,700,000 | 795 | 571 | 0.541020229 | ZBTB20 |
| 1 | 59,625,000 | 59,775,000 | 796 | 538 | 0.410944491 | ZBTB20 |
| 1 | 59,700,000 | 59,850,000 | 797 | 367 | 0.433372005 | ZBTB20 |
| 1 | 59,775,000 | 59,925,000 | 798 | 394 | 0.294396104 | |
| 1 | 59,850,000 | 60,000,000 | 799 | 425 | 0.609781677 | |
| 1 | 59,925,000 | 60,075,000 | 800 | 507 | 0.854183072 | |
| 1 | 60,000,000 | 60,150,000 | 801 | 713 | -0.1701122 | |
| 1 | 60,075,000 | 60,225,000 | 802 | 894 | -0.012587689 | |
| 1 | 60,150,000 | 60,300,000 | 803 | 758 | -0.092205857 | |
| 1 | 60,225,000 | 60,375,000 | 804 | 553 | -1.484275158 | |
| 1 | 60,300,000 | 60,450,000 | 805 | 762 | -1.965652321 | |
| 1 | 60,375,000 | 60,525,000 | 806 | 882 | -1.244282217 | |
| 1 | 60,450,000 | 60,600,000 | 807 | 717 | -0.098914332 | |
| 1 | 60,525,000 | 60,675,000 | 808 | 590 | -3.621375962 | |
| 1 | 60,600,000 | 60,750,000 | 809 | 671 | -3.059407431 | |
| 1 | 60,675,000 | 60,825,000 | 810 | 856 | 0.8182195 | |
| 1 | 60,750,000 | 60,900,000 | 811 | 868 | 0.941302462 | GAP43 |
| 1 | 60,825,000 | 60,975,000 | 812 | 835 | 0.881030742 | GAP43 |
| 1 | 60,900,000 | 61,050,000 | 813 | 680 | 0.265613782 | GAP43 |
| 1 | 60,975,000 | 61,125,000 | 814 | 796 | -0.959731525 | |
| 1 | 61,050,000 | 61,200,000 | 815 | 1282 | -0.419142182 | |
| 1 | 61,125,000 | 61,275,000 | 816 | 972 | 0.157828133 | |
| 1 | 61,200,000 | 61,350,000 | 817 | 608 | 0.404467434 | |
| 1 | 61,275,000 | 61,425,000 | 818 | 640 | 0.300313432 | |
| 1 | 61,350,000 | 61,500,000 | 819 | 589 | 0.434836172 | |
| 1 | 61,425,000 | 61,575,000 | 820 | 581 | 0.508721309 | |
| 1 | 61,500,000 | 61,650,000 | 821 | 656 | 0.450112896 | |
| 1 | 61,575,000 | 61,725,000 | 822 | 717 | -0.181635982 | |
| 1 | 61,650,000 | 61,800,000 | 823 | 771 | -0.789968015 | |
| 1 | 61,725,000 | 61,875,000 | 824 | 1118 | -0.757135479 | |
| 1 | 61,800,000 | 61,950,000 | 825 | 1264 | -0.502771017 | |
| 1 | 61,875,000 | 62,025,000 | 826 | 1217 | 0.364308232 | |
| 1 | 61,950,000 | 62,100,000 | 827 | 832 | 0.503964533 | |
| 1 | 62,025,000 | 62,175,000 | 828 | 749 | -0.810403381 | ENSBTAG00000040393 |
| 1 | 62,100,000 | 62,250,000 | 829 | 1023 | -0.21645852 | ENSBTAG00000040393 |
| 1 | 62,175,000 | 62,325,000 | 830 | 708 | 0.071188569 | |
| 1 | 62,250,000 | 62,400,000 | 831 | 520 | -0.439126595 | ENSBTAG00000046854 |
| 1 | 62,325,000 | 62,475,000 | 832 | 665 | -0.329424962 | ENSBTAG00000046854 |
| 1 | 62,400,000 | 62,550,000 | 833 | 745 | 0.626293819 | |
| 1 | 62,475,000 | 62,625,000 | 834 | 833 | 0.919122855 | |
| 1 | 62,550,000 | 62,700,000 | 835 | 1028 | 0.557955248 | |
| 1 | 62,625,000 | 62,775,000 | 836 | 928 | 0.639371162 | |
| 1 | 62,700,000 | 62,850,000 | 837 | 988 | 0.654946388 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 62,775,000 | 62,925,000 | 838 | 1067 | 0.377096573 | |
| 1 | 62,850,000 | 63,000,000 | 839 | 1112 | 0.518326184 | |
| 1 | 62,925,000 | 63,075,000 | 840 | 1208 | 0.673077198 | |
| 1 | 63,000,000 | 63,150,000 | 841 | 1111 | 0.888442731 | |
| 1 | 63,075,000 | 63,225,000 | 842 | 1047 | 0.965419149 | |
| 1 | 63,150,000 | 63,300,000 | 843 | 1051 | -0.318640872 | |
| 1 | 63,225,000 | 63,375,000 | 844 | 1021 | -0.971676596 | |
| 1 | 63,300,000 | 63,450,000 | 845 | 882 | 0.14909573 | |
| 1 | 63,375,000 | 63,525,000 | 846 | 842 | 0.169797402 | |
| 1 | 63,450,000 | 63,600,000 | 847 | 1003 | 0.057405269 | |
| 1 | 63,525,000 | 63,675,000 | 848 | 967 | 0.610832204 | |
| 1 | 63,600,000 | 63,750,000 | 849 | 901 | 0.933104594 | |
| 1 | 63,675,000 | 63,825,000 | 850 | 809 | 0.784743617 | |
| 1 | 63,750,000 | 63,900,000 | 851 | 617 | 0.466962251 | |
| 1 | 63,825,000 | 63,975,000 | 852 | 629 | 0.068608947 | |
| 1 | 63,900,000 | 64,050,000 | 853 | 679 | 0.543126649 | |
| 1 | 63,975,000 | 64,125,000 | 854 | 878 | 0.998578087 | |
| 1 | 64,050,000 | 64,200,000 | 855 | 666 | 0.640849314 | |
| 1 | 64,125,000 | 64,275,000 | 856 | 494 | 0.318622904 | |
| 1 | 64,200,000 | 64,350,000 | 857 | 601 | -0.221639918 | |
| 1 | 64,275,000 | 64,425,000 | 858 | 866 | -0.36451381 | IGSF11 |
| 1 | 64,350,000 | 64,500,000 | 859 | 1189 | -0.455296967 | IGSF11 |
| 1 | 64,425,000 | 64,575,000 | 860 | 982 | -0.437086238 | C3orf30,IGSF11 |
| 1 | 64,500,000 | 64,650,000 | 861 | 730 | 0.102600371 | B4GALT4,C3orf30,UPK1B |
| 1 | 64,575,000 | 64,725,000 | 862 | 699 | 0.054030721 | B4GALT4,UPK1B |
| 1 | 64,650,000 | 64,800,000 | 863 | 747 | 0.908807442 | ARHGAP31 |
| 1 | 64,725,000 | 64,875,000 | 864 | 702 | 0.827297882 | ARHGAP31,POGLUT1,TIMMDC1,TMEM39A |
| 1 | 64,800,000 | 64,950,000 | 865 | 641 | 0.680146827 | ADPRH,CD80,PLA1A,POGLUT1,TIMMDC1,TMEM39A |
| 1 | 64,875,000 | 65,025,000 | 866 | 776 | 0.707752572 | ADPRH,CD80,COX17,PLA1A,POPDC2,TIMMDC1 |
| 1 | 64,950,000 | 65,100,000 | 867 | 1019 | 0.702343701 | COX17,MAATS1,PLA1A,POPDC2 |
| 1 | 65,025,000 | 65,175,000 | 868 | 928 | 0.685859179 | COX17,MAATS1 |
| 1 | 65,100,000 | 65,250,000 | 869 | 504 | -0.126667713 | MAATS1,NR1I2 |
| 1 | 65,175,000 | 65,325,000 | 870 | 267 | -0.506500171 | GSK3B,NR1I2,ENSBTAG00000040597 |
| 1 | 65,250,000 | 65,400,000 | 871 | 252 | -0.210265728 | GSK3B,ENSBTAG00000040597 |
| 1 | 65,325,000 | 65,475,000 | 872 | 258 | -0.332854929 | GSK3B |
| 1 | 65,400,000 | 65,550,000 | 873 | 238 | -0.220466394 | GPR156,GSK3B |
| 1 | 65,475,000 | 65,625,000 | 874 | 250 | -0.602944348 | GPR156 |
| 1 | 65,550,000 | 65,700,000 | 875 | 248 | -0.123801168 | GPR156,LRRC58 |
| 1 | 65,625,000 | 65,775,000 | 876 | 286 | 0.620288162 | FSTL1,LRRC58 |
| 1 | 65,700,000 | 65,850,000 | 877 | 319 | 0.604754592 | FSTL1,LRRC58 |
| 1 | 65,775,000 | 65,925,000 | 878 | 279 | -0.152137987 | FSTL1,NDUFB4 |
| 1 | 65,850,000 | 66,000,000 | 879 | 593 | 0.030786536 | HGD,NDUFB4,RABL3 |
| 1 | 65,925,000 | 66,075,000 | 880 | 623 | 0.337830964 | GTF2E1,HGD,NDUFB4,RABL3 |
| 1 | 66,000,000 | 66,150,000 | 881 | 570 | 0.671818559 | GTF2E1,RABL3 |
| 1 | 66,075,000 | 66,225,000 | 882 | 756 | -0.160000232 | STXBP5L |
| 1 | 66,150,000 | 66,300,000 | 883 | 469 | -0.921906023 | STXBP5L |
| 1 | 66,225,000 | 66,375,000 | 884 | 220 | -0.190858305 | STXBP5L |
| 1 | 66,300,000 | 66,450,000 | 885 | 570 | -0.68319594 | STXBP5L |
| 1 | 66,375,000 | 66,525,000 | 886 | 1175 | -0.338279183 | STXBP5L |
| 1 | 66,450,000 | 66,600,000 | 887 | 1207 | 0.32015428 | POLQ,STXBP5L |
| 1 | 66,525,000 | 66,675,000 | 888 | 998 | 0.773902474 | POLQ,STXBP5L |
| 1 | 66,600,000 | 66,750,000 | 889 | 699 | 0.834343165 | ARGFX,FBXO40,HCLS1,POLQ |
| 1 | 66,675,000 | 66,825,000 | 890 | 440 | 0.893807165 | ARGFX,FBXO40,GOLGB1,HCLS1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 1 | 66,750,000 | 66,900,000 | 891 | 315 | 0.369807921 | GOLGB1,HCLS1,IQCB1 |
| 1 | 66,825,000 | 66,975,000 | 892 | 155 | -1.21439787 | EAF2,IQCB1,SLC15A2 |
| 1 | 66,900,000 | 67,050,000 | 893 | 217 | 0.004029666 | EAF2,IQCB1,SLC15A2,ENSBTAG00000001442 |
| 1 | 66,975,000 | 67,125,000 | 894 | 460 | 0.331121106 | ILDR1,SLC15A2,ENSBTAG00000001442 |
| 1 | 67,050,000 | 67,200,000 | 895 | 460 | 0.309190598 | CD86,ILDR1 |
| 1 | 67,125,000 | 67,275,000 | 896 | 289 | -0.006100279 | CASR,CD86 |
| 1 | 67,200,000 | 67,350,000 | 897 | 498 | -0.208122144 | CASR,CD86 |
| 1 | 67,275,000 | 67,425,000 | 898 | 759 | 0.284472789 | CASR,CCDC58,CSTA,FAM162A,ENSBTAG00000014133 |
| 1 | 67,350,000 | 67,500,000 | 899 | 703 | 1.149106728 | CCDC58,CSTA,FAM162A,KPNA1,ENSBTAG00000014133 |
| 1 | 67,425,000 | 67,575,000 | 900 | 634 | 0.81929744 | CCDC58,FAM162A,KPNA1,PARP9 |
| 1 | 67,500,000 | 67,650,000 | 901 | 652 | 0.436437995 | DTX3L,KPNA1,PARP14,PARP9 |
| 1 | 67,575,000 | 67,725,000 | 902 | 624 | -0.794682728 | DIRC2,DTX3L,HSPBAP1,PARP14,PARP9 |
| 1 | 67,650,000 | 67,800,000 | 903 | 473 | -1.080482775 | DIRC2,HSPBAP1,PARP14 |
| 1 | 67,725,000 | 67,875,000 | 904 | 346 | -0.449092678 | DIRC2,SEMA5B |
| 1 | 67,800,000 | 67,950,000 | 905 | 593 | -0.076327622 | DIRC2,SEMA5B |
| 1 | 67,875,000 | 68,025,000 | 906 | 751 | 0.167770143 | PDIA5,SEMA5B |
| 1 | 67,950,000 | 68,100,000 | 907 | 741 | -0.953411033 | PDIA5 |
| 1 | 68,025,000 | 68,175,000 | 908 | 1161 | -0.794023926 | PDIA5,SEC22A |
| 1 | 68,100,000 | 68,250,000 | 909 | 1179 | -0.685447255 | PDIA5,SEC22A |
| 1 | 68,175,000 | 68,325,000 | 910 | 864 | -0.628899502 | ADCY5,SEC22A |
| 1 | 68,250,000 | 68,400,000 | 911 | 609 | -0.531380575 | ADCY5 |
| 1 | 68,325,000 | 68,475,000 | 912 | 363 | -1.583091859 | ADCY5,PTPLB |
| 1 | 68,400,000 | 68,550,000 | 913 | 382 | -0.881893244 | ADCY5,PTPLB |
| 1 | 68,475,000 | 68,625,000 | 914 | 446 | -0.921887736 | MYLK,PTPLB |
| 1 | 68,550,000 | 68,700,000 | 915 | 433 | -1.453200911 | MYLK,PTPLB |
| 1 | 68,625,000 | 68,775,000 | 916 | 549 | -0.716040586 | MYLK |
| 1 | 68,700,000 | 68,850,000 | 917 | 752 | 0.39505221 | |
| 1 | 68,775,000 | 68,925,000 | 918 | 916 | -0.889100173 | CCDC14 |
| 1 | 68,850,000 | 69,000,000 | 919 | 846 | -1.640641339 | CCDC14,ROPN1 |
| 1 | 68,925,000 | 69,075,000 | 920 | 706 | -2.531680791 | CCDC14,ROPN1 |
| 1 | 69,000,000 | 69,150,000 | 921 | 672 | -2.034997267 | |
| 1 | 69,075,000 | 69,225,000 | 922 | 628 | 0.21953373 | |
| 1 | 69,150,000 | 69,300,000 | 923 | 975 | -0.736760198 | KALRN |
| 1 | 69,225,000 | 69,375,000 | 924 | 985 | -0.965411404 | KALRN |
| 1 | 69,300,000 | 69,450,000 | 925 | 894 | 0.251493676 | KALRN,ENSBTAG00000046935 |
| 1 | 69,375,000 | 69,525,000 | 926 | 1215 | 0.673412925 | KALRN,ENSBTAG00000046935 |
| 1 | 69,450,000 | 69,600,000 | 927 | 1098 | 0.486758188 | KALRN |
| 1 | 69,525,000 | 69,675,000 | 928 | 894 | -0.076576818 | KALRN |
| 1 | 69,600,000 | 69,750,000 | 929 | 984 | -0.554008651 | KALRN,UMPS |
| 1 | 69,675,000 | 69,825,000 | 930 | 1246 | -0.351323601 | ITGB5,KALRN,UMPS |
| 1 | 69,750,000 | 69,900,000 | 931 | 1239 | -0.348638333 | ITGB5,UMPS |
| 1 | 69,825,000 | 69,975,000 | 932 | 924 | -0.899912642 | ITGB5,MUC13 |
| 1 | 69,900,000 | 70,050,000 | 933 | 906 | -0.002045489 | HEG1,MUC13 |
| 1 | 69,975,000 | 70,125,000 | 934 | 680 | 0.725896281 | HEG1 |
| 1 | 70,050,000 | 70,200,000 | 935 | 459 | 1.215624657 | HEG1,SLC12A8 |
| 1 | 70,125,000 | 70,275,000 | 936 | 361 | 0.800285768 | SLC12A8 |
| 1 | 70,200,000 | 70,350,000 | 937 | 212 | 0.586427406 | SLC12A8,ZNF148 |
| 1 | 70,275,000 | 70,425,000 | 938 | 327 | 0.650106402 | ZNF148 |
| 1 | 70,350,000 | 70,500,000 | 939 | 441 | 0.752571892 | ZNF148 |
| 1 | 70,425,000 | 70,575,000 | 940 | 397 | 0.90437133 | OSBPL11,SNX4 |
| 1 | 70,500,000 | 70,650,000 | 941 | 331 | 0.836967348 | OSBPL11,SNX4 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 1 | 70,575,000 | 70,725,000 | 942 | 511 | 0.977754697 | OSBPL11,ENSBTAG00000003383 |
| 1 | 70,650,000 | 70,800,000 | 943 | 860 | -0.849252388 | IQCG,LMLN,OSBPL11,RPL35A,ENSBTAG00000003383 |
| 1 | 70,725,000 | 70,875,000 | 944 | 814 | -3.366335349 | IQCG,LMLN,LRCH3,RPL35A |
| 1 | 70,800,000 | 70,950,000 | 945 | 484 | -3.287079391 | IQCG,LRCH3 |
| 1 | 70,875,000 | 71,025,000 | 946 | 532 | -1.084250762 | FYTDD1,KIAA0226,LRCH3 |
| 1 | 70,950,000 | 71,100,000 | 947 | 751 | -1.589318607 | FYTDD1,KIAA0226,MUC20,MUC4 |
| 1 | 71,025,000 | 71,175,000 | 948 | 977 | -2.093050732 | KIAA0226,MUC20,MUC4 |
| 1 | 71,100,000 | 71,250,000 | 949 | 1198 | -2.006299802 | MUC4,TNK2 |
| 1 | 71,175,000 | 71,325,000 | 950 | 934 | -2.222475543 | TFRC,TNK2 |
| 1 | 71,250,000 | 71,400,000 | 951 | 674 | -1.092832384 | TFRC,ZDHHC19 |
| 1 | 71,325,000 | 71,475,000 | 952 | 767 | 0.669628073 | PCYT1A,SLC51A,ZDHHC19 |
| 1 | 71,400,000 | 71,550,000 | 953 | 715 | 0.968347864 | PCYT1A,SLC51A,TCTEX1D2,UBXN7,ZDHHC19,ENSBTA G00000040161 |
| 1 | 71,475,000 | 71,625,000 | 954 | 642 | 1.226954441 | PCYT1A,TCTEX1D2,UBXN7,ENSBTAG00000040161 |
| 1 | 71,550,000 | 71,700,000 | 955 | 654 | 0.932663198 | MGC152484,RNF168,UBXN7,WDR53 |
| 1 | 71,625,000 | 71,775,000 | 956 | 695 | 0.687686649 | FBXO45,MGC152484,NRROS,RNF168,WDR53 |
| 1 | 71,700,000 | 71,850,000 | 957 | 798 | 0.67363104 | CEP19,FBXO45,NRROS,PIGX,WDR53 |
| 1 | 71,775,000 | 71,925,000 | 958 | 742 | 0.295762245 | CEP19,NRROS,PAK2,PIGX |
| 1 | 71,850,000 | 72,000,000 | 959 | 593 | 0.045704084 | PAK2,PIGX,SENP5 |
| 1 | 71,925,000 | 72,075,000 | 960 | 524 | -0.133843837 | NCBP2,PAK2,PIGX,SENP5 |
| 1 | 72,000,000 | 72,150,000 | 961 | 465 | -0.007176527 | DLG1,MFI2,NCBP2,PIGX,SENP5 |
| 1 | 72,075,000 | 72,225,000 | 962 | 376 | 0.519374409 | DLG1,MFI2 |
| 1 | 72,150,000 | 72,300,000 | 963 | 329 | 0.819558376 | DLG1 |
| 1 | 72,225,000 | 72,375,000 | 964 | 349 | 0.772386747 | DLG1 |
| 1 | 72,300,000 | 72,450,000 | 965 | 350 | 0.560282698 | |
| 1 | 72,375,000 | 72,525,000 | 966 | 353 | 0.628409416 | ENSBTAG00000048225 |
| 1 | 72,450,000 | 72,600,000 | 967 | 429 | 1.143231805 | BDH1,ENSBTAG00000048225 |
| 1 | 72,525,000 | 72,675,000 | 968 | 697 | 1.347558615 | APOD,BDH1 |
| 1 | 72,600,000 | 72,750,000 | 969 | 761 | 1.155443664 | APOD,BDH1,PPP1R2 |
| 1 | 72,675,000 | 72,825,000 | 970 | 533 | 0.591183428 | ACAP2,APOD,PPP1R2 |
| 1 | 72,750,000 | 72,900,000 | 971 | 576 | 0.561000394 | ACAP2 |
| 1 | 72,825,000 | 72,975,000 | 972 | 636 | 1.004678632 | ACAP2,XXYLT1 |
| 1 | 72,900,000 | 73,050,000 | 973 | 745 | 0.124372189 | ACAP2,XXYLT1 |
| 1 | 72,975,000 | 73,125,000 | 974 | 1094 | -0.329914195 | XXYLT1 |
| 1 | 73,050,000 | 73,200,000 | 975 | 1133 | 0.250600266 | XXYLT1 |
| 1 | 73,125,000 | 73,275,000 | 976 | 675 | 0.638268613 | |
| 1 | 73,200,000 | 73,350,000 | 977 | 513 | 0.053385819 | |
| 1 | 73,275,000 | 73,425,000 | 978 | 634 | 0.248770989 | |
| 1 | 73,350,000 | 73,500,000 | 979 | 654 | 0.641752253 | FAM43A,LSG1 |
| 1 | 73,425,000 | 73,575,000 | 980 | 518 | 0.784804567 | FAM43A,LSG1,TMEM44 |
| 1 | 73,500,000 | 73,650,000 | 981 | 291 | 1.092599608 | LSG1,TMEM44 |
| 1 | 73,575,000 | 73,725,000 | 982 | 276 | 1.224514052 | ATP13A3 |
| 1 | 73,650,000 | 73,800,000 | 983 | 324 | 1.001059125 | ATP13A3,CPN2,GP5,LRRC15 |
| 1 | 73,725,000 | 73,875,000 | 984 | 383 | 0.108959355 | ATP13A3,CPN2,GP5,LRRC15 |
| 1 | 73,800,000 | 73,950,000 | 985 | 709 | -0.204230154 | CPN2 |
| 1 | 73,875,000 | 74,025,000 | 986 | 837 | -0.111431639 | HES1 |
| 1 | 73,950,000 | 74,100,000 | 987 | 747 | 0.110331955 | HES1 |
| 1 | 74,025,000 | 74,175,000 | 988 | 782 | 0.411974393 | |
| 1 | 74,100,000 | 74,250,000 | 989 | 616 | 0.114874462 | |
| 1 | 74,175,000 | 74,325,000 | 990 | 625 | 0.031965723 | |
| 1 | 74,250,000 | 74,400,000 | 991 | 902 | -0.464639817 | OPA1 |
| 1 | 74,325,000 | 74,475,000 | 992 | 1009 | 0.181692979 | OPA1 |
| 1 | 74,400,000 | 74,550,000 | 993 | 1002 | 0.854796435 | ATP13A4,OPA1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------|
| 1 | 74,475,000 | 74,625,000 | 994 | 987 | -0.81766438 | ATP13A4 |
| 1 | 74,550,000 | 74,700,000 | 995 | 883 | -1.53744031 | ATP13A4,ATP13A5 |
| 1 | 74,625,000 | 74,775,000 | 996 | 597 | -0.540186557 | ATP13A4,ATP13A5 |
| 1 | 74,700,000 | 74,850,000 | 997 | 685 | 0.912394499 | ATP13A5,HRASLS |
| 1 | 74,775,000 | 74,925,000 | 998 | 1155 | 1.397411853 | HRASLS |
| 1 | 74,850,000 | 75,000,000 | 999 | 956 | 1.550197751 | |
| 1 | 74,925,000 | 75,075,000 | 1000 | 562 | 1.319264865 | |
| 1 | 75,000,000 | 75,150,000 | 1001 | 949 | 0.729079384 | |
| 1 | 75,075,000 | 75,225,000 | 1002 | 1374 | -0.309888638 | MB21D2 |
| 1 | 75,150,000 | 75,300,000 | 1003 | 1094 | -1.303974836 | MB21D2 |
| 1 | 75,225,000 | 75,375,000 | 1004 | 830 | -0.380063267 | |
| 1 | 75,300,000 | 75,450,000 | 1005 | 953 | -0.359518226 | |
| 1 | 75,375,000 | 75,525,000 | 1006 | 693 | -1.194042458 | |
| 1 | 75,450,000 | 75,600,000 | 1007 | 480 | -0.138622119 | |
| 1 | 75,525,000 | 75,675,000 | 1008 | 481 | -0.293704789 | ENSBTAG00000012413 |
| 1 | 75,600,000 | 75,750,000 | 1009 | 395 | -0.095536149 | ENSBTAG00000012413 |
| 1 | 75,675,000 | 75,825,000 | 1010 | 490 | 0.383883412 | ENSBTAG00000012413 |
| 1 | 75,750,000 | 75,900,000 | 1011 | 470 | -0.27224195 | ENSBTAG00000012413 |
| 1 | 75,825,000 | 75,975,000 | 1012 | 657 | 0.125617674 | ENSBTAG00000012413 |
| 1 | 75,900,000 | 76,050,000 | 1013 | 999 | 0.805230072 | |
| 1 | 75,975,000 | 76,125,000 | 1014 | 909 | 0.482589174 | |
| 1 | 76,050,000 | 76,200,000 | 1015 | 927 | 0.811149272 | |
| 1 | 76,125,000 | 76,275,000 | 1016 | 922 | 1.182811399 | |
| 1 | 76,200,000 | 76,350,000 | 1017 | 842 | 0.698387662 | |
| 1 | 76,275,000 | 76,425,000 | 1018 | 1000 | 0.64701194 | |
| 1 | 76,350,000 | 76,500,000 | 1019 | 1215 | 0.932135113 | |
| 1 | 76,425,000 | 76,575,000 | 1020 | 1119 | 1.073892086 | CCDC50 |
| 1 | 76,500,000 | 76,650,000 | 1021 | 726 | 1.335970312 | CCDC50 |
| 1 | 76,575,000 | 76,725,000 | 1022 | 775 | 1.32112374 | CCDC50,OSTN,UTS2B |
| 1 | 76,650,000 | 76,800,000 | 1023 | 963 | 0.727663811 | OSTN,UTS2B |
| 1 | 76,725,000 | 76,875,000 | 1024 | 972 | -0.012591938 | |
| 1 | 76,800,000 | 76,950,000 | 1025 | 1116 | 0.744641159 | |
| 1 | 76,875,000 | 77,025,000 | 1026 | 930 | 0.541239483 | GMNC |
| 1 | 76,950,000 | 77,100,000 | 1027 | 754 | -0.294841935 | GMNC |
| 1 | 77,025,000 | 77,175,000 | 1028 | 769 | 0.110420167 | |
| 1 | 77,100,000 | 77,250,000 | 1029 | 628 | 0.804423048 | IL1RAP |
| 1 | 77,175,000 | 77,325,000 | 1030 | 647 | 0.801157589 | IL1RAP |
| 1 | 77,250,000 | 77,400,000 | 1031 | 536 | 0.165628848 | IL1RAP |
| 1 | 77,325,000 | 77,475,000 | 1032 | 839 | 0.49427588 | CLDN16,IL1RAP,TMEM207 |
| 1 | 77,400,000 | 77,550,000 | 1033 | 1083 | 0.297091592 | CLDN16,TMEM207 |
| 1 | 77,475,000 | 77,625,000 | 1034 | 915 | 0.300450392 | CLDN1,CLDN16 |
| 1 | 77,550,000 | 77,700,000 | 1035 | 1046 | 0.84013427 | CLDN1 |
| 1 | 77,625,000 | 77,775,000 | 1036 | 832 | 0.873171662 | LEPREL1 |
| 1 | 77,700,000 | 77,850,000 | 1037 | 516 | 0.098147046 | LEPREL1 |
| 1 | 77,775,000 | 77,925,000 | 1038 | 482 | -0.557285892 | LEPREL1 |
| 1 | 77,850,000 | 78,000,000 | 1039 | 534 | -1.166228196 | LEPREL1 |
| 1 | 77,925,000 | 78,075,000 | 1040 | 519 | -1.095134504 | LEPREL1,TP63 |
| 1 | 78,000,000 | 78,150,000 | 1041 | 656 | -0.054386649 | TP63 |
| 1 | 78,075,000 | 78,225,000 | 1042 | 916 | 0.545122788 | TP63 |
| 1 | 78,150,000 | 78,300,000 | 1043 | 613 | 1.014228754 | TP63 |
| 1 | 78,225,000 | 78,375,000 | 1044 | 318 | -0.607205416 | TP63 |
| 1 | 78,300,000 | 78,450,000 | 1045 | 617 | -0.422338353 | |
| 1 | 78,375,000 | 78,525,000 | 1046 | 828 | -0.781494639 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 1 | 78,450,000 | 78,600,000 | 1047 | 549 | -1.187933125 | |
| 1 | 78,525,000 | 78,675,000 | 1048 | 483 | -0.013736332 | TPRG1 |
| 1 | 78,600,000 | 78,750,000 | 1049 | 855 | -0.023934649 | TPRG1 |
| 1 | 78,675,000 | 78,825,000 | 1050 | 746 | -0.233280122 | TPRG1 |
| 1 | 78,750,000 | 78,900,000 | 1051 | 345 | -0.708933384 | TPRG1 |
| 1 | 78,825,000 | 78,975,000 | 1052 | 346 | -0.91583815 | |
| 1 | 78,900,000 | 79,050,000 | 1053 | 366 | -0.589600118 | LPP |
| 1 | 78,975,000 | 79,125,000 | 1054 | 348 | -0.285686551 | LPP |
| 1 | 79,050,000 | 79,200,000 | 1055 | 402 | 0.127523135 | LPP |
| 1 | 79,125,000 | 79,275,000 | 1056 | 444 | 0.724054039 | LPP |
| 1 | 79,200,000 | 79,350,000 | 1057 | 507 | 0.885690001 | LPP |
| 1 | 79,275,000 | 79,425,000 | 1058 | 579 | 0.781892091 | LPP |
| 1 | 79,350,000 | 79,500,000 | 1059 | 537 | 0.757774552 | LPP |
| 1 | 79,425,000 | 79,575,000 | 1060 | 616 | 0.699469463 | LPP |
| 1 | 79,500,000 | 79,650,000 | 1061 | 690 | 0.436022268 | LPP |
| 1 | 79,575,000 | 79,725,000 | 1062 | 680 | 0.582832575 | LPP |
| 1 | 79,650,000 | 79,800,000 | 1063 | 730 | -0.047462123 | LPP |
| 1 | 79,725,000 | 79,875,000 | 1064 | 979 | -0.971811878 | LPP |
| 1 | 79,800,000 | 79,950,000 | 1065 | 1172 | -0.292943393 | |
| 1 | 79,875,000 | 80,025,000 | 1066 | 912 | 0.226521431 | |
| 1 | 79,950,000 | 80,100,000 | 1067 | 789 | -0.304412556 | |
| 1 | 80,025,000 | 80,175,000 | 1068 | 948 | -0.040601159 | |
| 1 | 80,100,000 | 80,250,000 | 1069 | 916 | 0.597400283 | BCL6,RTP2 |
| 1 | 80,175,000 | 80,325,000 | 1070 | 1230 | 0.471584592 | BCL6,RTP2,SST |
| 1 | 80,250,000 | 80,400,000 | 1071 | 1353 | 0.609275822 | SST |
| 1 | 80,325,000 | 80,475,000 | 1072 | 867 | -0.284031278 | |
| 1 | 80,400,000 | 80,550,000 | 1073 | 634 | -0.878790595 | RTP4 |
| 1 | 80,475,000 | 80,625,000 | 1074 | 884 | 0.220333688 | MASP1,RTP4 |
| 1 | 80,550,000 | 80,700,000 | 1075 | 1051 | -1.400385579 | MASP1,RTP1 |
| 1 | 80,625,000 | 80,775,000 | 1076 | 861 | -1.686077532 | MASP1,RTP1 |
| 1 | 80,700,000 | 80,850,000 | 1077 | 794 | 0.650682814 | ST6GAL1 |
| 1 | 80,775,000 | 80,925,000 | 1078 | 835 | 0.820624715 | ST6GAL1 |
| 1 | 80,850,000 | 81,000,000 | 1079 | 791 | 0.160872975 | |
| 1 | 80,925,000 | 81,075,000 | 1080 | 685 | -0.866443726 | ADIPOQ,EIF4A2,RFC4 |
| 1 | 81,000,000 | 81,150,000 | 1081 | 746 | 0.445296966 | ADIPOQ,EIF4A2,HRG,KNG1,RFC4 |
| 1 | 81,075,000 | 81,225,000 | 1082 | 887 | 1.223966407 | AHSG,FETUB,HRG,KNG1 |
| 1 | 81,150,000 | 81,300,000 | 1083 | 877 | 0.996188879 | AHSG,CRYGS,DNAJB11,FETUB,TBCCD1 |
| 1 | 81,225,000 | 81,375,000 | 1084 | 824 | 0.078785703 | CRYGS,DNAJB11,TBCCD1 |
| 1 | 81,300,000 | 81,450,000 | 1085 | 690 | -0.514255215 | |
| 1 | 81,375,000 | 81,525,000 | 1086 | 477 | -0.623590251 | DGKG |
| 1 | 81,450,000 | 81,600,000 | 1087 | 516 | 0.633085974 | DGKG |
| 1 | 81,525,000 | 81,675,000 | 1088 | 608 | 1.113048152 | DGKG |
| 1 | 81,600,000 | 81,750,000 | 1089 | 512 | 0.202303373 | DGKG,ETV5 |
| 1 | 81,675,000 | 81,825,000 | 1090 | 440 | -1.16117237 | DGKG,ETV5 |
| 1 | 81,750,000 | 81,900,000 | 1091 | 369 | -1.091808384 | ETV5,TRA2B,ENSBTAG00000011305,ENSBTAG00000047841 |
| 1 | 81,825,000 | 81,975,000 | 1092 | 474 | 0.320272165 | TRA2B,ENSBTAG00000011305,ENSBTAG00000047841 |
| 1 | 81,900,000 | 82,050,000 | 1093 | 561 | 0.796867357 | IGF2BP2 |
| 1 | 81,975,000 | 82,125,000 | 1094 | 409 | 0.710008192 | IGF2BP2 |
| 1 | 82,050,000 | 82,200,000 | 1095 | 474 | 0.299878391 | IGF2BP2,SEN2 |
| 1 | 82,125,000 | 82,275,000 | 1096 | 706 | 0.177622188 | IGF2BP2,LIPH,SEN2 |
| 1 | 82,200,000 | 82,350,000 | 1097 | 693 | -0.278708017 | LIPH,MAP3K13,SEN2,TMEM41A |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 1 | 82,275,000 | 82,425,000 | 1098 | 574 | -0.412360346 | LIPH,MAP3K13,TMEM41A |
| 1 | 82,350,000 | 82,500,000 | 1099 | 563 | -0.492769796 | EHHADH,MAP3K13 |
| 1 | 82,425,000 | 82,575,000 | 1100 | 614 | -1.233130007 | C3orf70,EHHADH,MAP3K13,ENSBTAG00000007296 |
| 1 | 82,500,000 | 82,650,000 | 1101 | 542 | -2.059674066 | C3orf70,EHHADH,ENSBTAG00000007296 |
| 1 | 82,575,000 | 82,725,000 | 1102 | 489 | -1.441395295 | C3orf70,VPS8 |
| 1 | 82,650,000 | 82,800,000 | 1103 | 663 | 0.159267657 | C3orf70,VPS8 |
| 1 | 82,725,000 | 82,875,000 | 1104 | 862 | 0.827284572 | VPS8 |
| 1 | 82,800,000 | 82,950,000 | 1105 | 1212 | 0.845217909 | VPS8 |
| 1 | 82,875,000 | 83,025,000 | 1106 | 1003 | 0.83860762 | VPS8 |
| 1 | 82,950,000 | 83,100,000 | 1107 | 664 | 0.549352467 | MAGEF1,VPS8 |
| 1 | 83,025,000 | 83,175,000 | 1108 | 731 | 0.562874158 | MAGEF1 |
| 1 | 83,100,000 | 83,250,000 | 1109 | 444 | 0.53092717 | EPHB3 |
| 1 | 83,175,000 | 83,325,000 | 1110 | 272 | -0.576518717 | EPHB3,ENSBTAG00000008343 |
| 1 | 83,250,000 | 83,400,000 | 1111 | 464 | -0.379335753 | GTF2F1,ENSBTAG00000008343 |
| 1 | 83,325,000 | 83,475,000 | 1112 | 558 | -0.472667826 | CHRD,CLCN2,EIF4G1,FAM131A,GTF2F1,POLR2H,THPO |
| 1 | 83,400,000 | 83,550,000 | 1113 | 482 | -0.83502211 | ALG3,CAMK2N2,CHRD,CLCN2,ECE2,EIF4G1,FAM131A, POLR2H,PSMD2,THPO,VWA5B2 |
| 1 | 83,475,000 | 83,625,000 | 1114 | 395 | -0.402737777 | ABCF3,ALG3,AP2M1,CAMK2N2,DVL3,ECE2,EIF2B5,EIF4 G1,PSMD2,VWA5B2 |
| 1 | 83,550,000 | 83,700,000 | 1115 | 414 | 0.030448004 | ABCF3,AP2M1,DVL3,EIF2B5,HTR3C,HTR3E,VWA5B2 |
| 1 | 83,625,000 | 83,775,000 | 1116 | 617 | -0.012848646 | ABCC5,EIF2B5,HTR3C,HTR3E |
| 1 | 83,700,000 | 83,850,000 | 1117 | 637 | -0.132654864 | ABCC5,HTR3C |
| 1 | 83,775,000 | 83,925,000 | 1118 | 534 | -0.007697737 | ABCC5,MAP6D1,PARL |
| 1 | 83,850,000 | 84,000,000 | 1119 | 557 | -0.021699592 | MAP6D1,PARL,YEATS2 |
| 1 | 83,925,000 | 84,075,000 | 1120 | 413 | -1.091329783 | KLHL24,MAP6D1,YEATS2,ENSBTAG00000014449 |
| 1 | 84,000,000 | 84,150,000 | 1121 | 399 | -2.013269366 | KLHL24,YEATS2,ENSBTAG00000014449 |
| 1 | 84,075,000 | 84,225,000 | 1122 | 778 | -3.019869394 | KLHL24,KLHL6 |
| 1 | 84,150,000 | 84,300,000 | 1123 | 1130 | -2.196690274 | KLHL6 |
| 1 | 84,225,000 | 84,375,000 | 1124 | 1248 | -1.466283187 | B3GNT5,MCF2L2 |
| 1 | 84,300,000 | 84,450,000 | 1125 | 819 | -1.250082084 | B3GNT5,MCF2L2 |
| 1 | 84,375,000 | 84,525,000 | 1126 | 483 | 0.557654097 | B3GNT5,MCF2L2 |
| 1 | 84,450,000 | 84,600,000 | 1127 | 719 | 0.331836391 | LAMP3,MCCC1,MCF2L2 |
| 1 | 84,525,000 | 84,675,000 | 1128 | 815 | 0.020724846 | DCUN1D1,LAMP3,MCCC1,MCF2L2 |
| 1 | 84,600,000 | 84,750,000 | 1129 | 606 | 0.05005611 | ATP11B,DCUN1D1,MCCC1 |
| 1 | 84,675,000 | 84,825,000 | 1130 | 421 | -0.532645021 | ATP11B,DCUN1D1 |
| 1 | 84,750,000 | 84,900,000 | 1131 | 479 | -2.199525307 | ATP11B |
| 1 | 84,825,000 | 84,975,000 | 1132 | 537 | -2.128203119 | |
| 1 | 84,900,000 | 85,050,000 | 1133 | 445 | -0.655123784 | |
| 1 | 84,975,000 | 85,125,000 | 1134 | 352 | -0.31761785 | |
| 1 | 85,050,000 | 85,200,000 | 1135 | 564 | -0.856075173 | |
| 1 | 85,125,000 | 85,275,000 | 1136 | 846 | 0.38916405 | |
| 1 | 85,200,000 | 85,350,000 | 1137 | 646 | 1.16617887 | |
| 1 | 85,275,000 | 85,425,000 | 1138 | 425 | 1.28709343 | |
| 1 | 85,350,000 | 85,500,000 | 1139 | 486 | 1.352998448 | |
| 1 | 85,425,000 | 85,575,000 | 1140 | 477 | 1.536814617 | |
| 1 | 85,500,000 | 85,650,000 | 1141 | 709 | 1.397073981 | |
| 1 | 85,575,000 | 85,725,000 | 1142 | 979 | 1.158130325 | |
| 1 | 85,650,000 | 85,800,000 | 1143 | 857 | 0.699134749 | |
| 1 | 85,725,000 | 85,875,000 | 1144 | 578 | 0.489929663 | |
| 1 | 85,800,000 | 85,950,000 | 1145 | 498 | 0.172408135 | SOX2 |
| 1 | 85,875,000 | 86,025,000 | 1146 | 465 | -0.760321609 | SOX2 |
| 1 | 85,950,000 | 86,100,000 | 1147 | 345 | -1.622004262 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------|
| 1 | 86,025,000 | 86,175,000 | 1148 | 358 | -1.195313759 | |
| 1 | 86,100,000 | 86,250,000 | 1149 | 391 | -0.067611771 | |
| 1 | 86,175,000 | 86,325,000 | 1150 | 551 | 0.902430981 | |
| 1 | 86,250,000 | 86,400,000 | 1151 | 641 | 1.093082127 | |
| 1 | 86,325,000 | 86,475,000 | 1152 | 811 | 1.085191022 | |
| 1 | 86,400,000 | 86,550,000 | 1153 | 672 | 0.972042714 | |
| 1 | 86,475,000 | 86,625,000 | 1154 | 361 | 0.767913768 | |
| 1 | 86,550,000 | 86,700,000 | 1155 | 343 | 1.066413086 | DNAJC19,FXR1 |
| 1 | 86,625,000 | 86,775,000 | 1156 | 326 | 1.225902746 | DNAJC19,FXR1 |
| 1 | 86,700,000 | 86,850,000 | 1157 | 480 | 0.422546407 | FXR1 |
| 1 | 86,775,000 | 86,925,000 | 1158 | 556 | 0.079786749 | |
| 1 | 86,850,000 | 87,000,000 | 1159 | 419 | 0.482488484 | CCDC39 |
| 1 | 86,925,000 | 87,075,000 | 1160 | 363 | 0.850550178 | CCDC39,TTC14 |
| 1 | 87,000,000 | 87,150,000 | 1161 | 419 | 0.869594515 | CCDC39,TTC14 |
| 1 | 87,075,000 | 87,225,000 | 1162 | 545 | 0.770680475 | |
| 1 | 87,150,000 | 87,300,000 | 1163 | 621 | -0.055385448 | |
| 1 | 87,225,000 | 87,375,000 | 1164 | 741 | -1.453713705 | |
| 1 | 87,300,000 | 87,450,000 | 1165 | 1101 | -2.133621289 | |
| 1 | 87,375,000 | 87,525,000 | 1166 | 1322 | -2.668647346 | |
| 1 | 87,450,000 | 87,600,000 | 1167 | 1112 | -2.374206143 | |
| 1 | 87,525,000 | 87,675,000 | 1168 | 799 | -0.972100462 | |
| 1 | 87,600,000 | 87,750,000 | 1169 | 640 | -1.119500131 | |
| 1 | 87,675,000 | 87,825,000 | 1170 | 697 | -0.988300994 | PEX5L |
| 1 | 87,750,000 | 87,900,000 | 1171 | 1049 | -1.401190878 | PEX5L |
| 1 | 87,825,000 | 87,975,000 | 1172 | 1075 | -1.128980574 | PEX5L,USP13 |
| 1 | 87,900,000 | 88,050,000 | 1173 | 771 | -0.686046652 | PEX5L,USP13 |
| 1 | 87,975,000 | 88,125,000 | 1174 | 497 | -0.842856292 | MRPL47,NDUFB5,USP13 |
| 1 | 88,050,000 | 88,200,000 | 1175 | 359 | 0.087326203 | ACTL6A,MRPL47,NDUFB5,USP13 |
| 1 | 88,125,000 | 88,275,000 | 1176 | 493 | -0.582316308 | ACTL6A,GNB4,MFN1,MRPL47 |
| 1 | 88,200,000 | 88,350,000 | 1177 | 462 | -0.456266503 | GNB4,MFN1 |
| 1 | 88,275,000 | 88,425,000 | 1178 | 465 | 0.206384295 | MFN1,ZNF639 |
| 1 | 88,350,000 | 88,500,000 | 1179 | 464 | 0.203764263 | KCNMB3,MFN1,ZNF639 |
| 1 | 88,425,000 | 88,575,000 | 1180 | 241 | 0.623256984 | KCNMB3,PIK3CA |
| 1 | 88,500,000 | 88,650,000 | 1181 | 358 | 0.626930733 | PIK3CA,ZMAT3 |
| 1 | 88,575,000 | 88,725,000 | 1182 | 687 | 0.245779943 | ZMAT3 |
| 1 | 88,650,000 | 88,800,000 | 1183 | 714 | 0.105047085 | KCNMB3,ZMAT3 |
| 1 | 88,725,000 | 88,875,000 | 1184 | 533 | -0.011135944 | KCNMB3 |
| 1 | 88,800,000 | 88,950,000 | 1185 | 433 | -0.130392238 | KCNMB3 |
| 1 | 88,875,000 | 89,025,000 | 1186 | 487 | 0.134156959 | |
| 1 | 88,950,000 | 89,100,000 | 1187 | 538 | 0.208755114 | |
| 1 | 89,025,000 | 89,175,000 | 1188 | 671 | -0.261572955 | |
| 1 | 89,100,000 | 89,250,000 | 1189 | 1088 | -0.226122329 | |
| 1 | 89,175,000 | 89,325,000 | 1190 | 1107 | 0.103614362 | |
| 1 | 89,250,000 | 89,400,000 | 1191 | 885 | -0.079707349 | |
| 1 | 89,325,000 | 89,475,000 | 1192 | 884 | -0.291839574 | |
| 1 | 89,400,000 | 89,550,000 | 1193 | 715 | -0.692007143 | |
| 1 | 89,475,000 | 89,625,000 | 1194 | 739 | -2.628340882 | |
| 1 | 89,550,000 | 89,700,000 | 1195 | 671 | -2.864782052 | |
| 1 | 89,625,000 | 89,775,000 | 1196 | 454 | -1.815442267 | |
| 1 | 89,700,000 | 89,850,000 | 1197 | 815 | -0.364661252 | |
| 1 | 89,775,000 | 89,925,000 | 1198 | 861 | -0.228446922 | |
| 1 | 89,850,000 | 90,000,000 | 1199 | 823 | -0.063967255 | |
| 1 | 89,925,000 | 90,075,000 | 1200 | 758 | 0.591931421 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------|
| 1 | 90,000,000 | 90,150,000 | 1201 | 529 | 0.438040118 | |
| 1 | 90,075,000 | 90,225,000 | 1202 | 700 | 0.375604998 | |
| 1 | 90,150,000 | 90,300,000 | 1203 | 697 | 0.237762747 | |
| 1 | 90,225,000 | 90,375,000 | 1204 | 462 | -0.549230228 | |
| 1 | 90,300,000 | 90,450,000 | 1205 | 537 | -0.367897391 | |
| 1 | 90,375,000 | 90,525,000 | 1206 | 726 | 0.637830079 | TBL1XR1 |
| 1 | 90,450,000 | 90,600,000 | 1207 | 800 | 0.714139301 | TBL1XR1 |
| 1 | 90,525,000 | 90,675,000 | 1208 | 811 | 0.264459997 | TBL1XR1 |
| 1 | 90,600,000 | 90,750,000 | 1209 | 572 | -0.299176277 | TBL1XR1 |
| 1 | 90,675,000 | 90,825,000 | 1210 | 467 | 0.221225847 | |
| 1 | 90,750,000 | 90,900,000 | 1211 | 638 | 0.39000594 | |
| 1 | 90,825,000 | 90,975,000 | 1212 | 772 | -0.662839429 | |
| 1 | 90,900,000 | 91,050,000 | 1213 | 657 | -1.30462951 | |
| 1 | 90,975,000 | 91,125,000 | 1214 | 597 | -0.963921759 | |
| 1 | 91,050,000 | 91,200,000 | 1215 | 562 | 0.180940903 | |
| 1 | 91,125,000 | 91,275,000 | 1216 | 318 | 0.830842585 | |
| 1 | 91,200,000 | 91,350,000 | 1217 | 284 | -0.438661178 | |
| 1 | 91,275,000 | 91,425,000 | 1218 | 494 | 0.175132678 | |
| 1 | 91,350,000 | 91,500,000 | 1219 | 770 | 0.05704364 | |
| 1 | 91,425,000 | 91,575,000 | 1220 | 1000 | -0.048195643 | |
| 1 | 91,500,000 | 91,650,000 | 1221 | 1040 | 0.480685961 | |
| 1 | 91,575,000 | 91,725,000 | 1222 | 747 | 0.588707002 | |
| 1 | 91,650,000 | 91,800,000 | 1223 | 552 | 0.51150279 | |
| 1 | 91,725,000 | 91,875,000 | 1224 | 1120 | 0.958636949 | |
| 1 | 91,800,000 | 91,950,000 | 1225 | 1105 | 0.802838965 | |
| 1 | 91,875,000 | 92,025,000 | 1226 | 829 | 0.293528018 | |
| 1 | 91,950,000 | 92,100,000 | 1227 | 1216 | -0.55883447 | |
| 1 | 92,025,000 | 92,175,000 | 1228 | 1190 | -0.402523804 | |
| 1 | 92,100,000 | 92,250,000 | 1229 | 1127 | -1.238812023 | |
| 1 | 92,175,000 | 92,325,000 | 1230 | 1180 | -1.943843249 | |
| 1 | 92,250,000 | 92,400,000 | 1231 | 1292 | -0.680605155 | |
| 1 | 92,325,000 | 92,475,000 | 1232 | 1283 | 0.078882156 | |
| 1 | 92,400,000 | 92,550,000 | 1233 | 1062 | 0.612612728 | |
| 1 | 92,475,000 | 92,625,000 | 1234 | 1144 | 0.51021035 | |
| 1 | 92,550,000 | 92,700,000 | 1235 | 1342 | 0.551366002 | |
| 1 | 92,625,000 | 92,775,000 | 1236 | 1050 | 0.610557956 | |
| 1 | 92,700,000 | 92,850,000 | 1237 | 738 | 0.631863085 | |
| 1 | 92,775,000 | 92,925,000 | 1238 | 688 | -0.051824236 | |
| 1 | 92,850,000 | 93,000,000 | 1239 | 611 | -0.036252577 | |
| 1 | 92,925,000 | 93,075,000 | 1240 | 645 | 0.107176425 | |
| 1 | 93,000,000 | 93,150,000 | 1241 | 631 | 0.06382004 | |
| 1 | 93,075,000 | 93,225,000 | 1242 | 664 | 0.835823457 | |
| 1 | 93,150,000 | 93,300,000 | 1243 | 730 | 0.718009489 | |
| 1 | 93,225,000 | 93,375,000 | 1244 | 1006 | 0.786586291 | |
| 1 | 93,300,000 | 93,450,000 | 1245 | 845 | 0.754856809 | |
| 1 | 93,375,000 | 93,525,000 | 1246 | 488 | 0.514922648 | |
| 1 | 93,450,000 | 93,600,000 | 1247 | 775 | 1.266977958 | |
| 1 | 93,525,000 | 93,675,000 | 1248 | 814 | 1.369122328 | NLGN1 |
| 1 | 93,600,000 | 93,750,000 | 1249 | 748 | 0.470382488 | NLGN1 |
| 1 | 93,675,000 | 93,825,000 | 1250 | 690 | -0.93530298 | |
| 1 | 93,750,000 | 93,900,000 | 1251 | 708 | -3.401448402 | |
| 1 | 93,825,000 | 93,975,000 | 1252 | 980 | -0.815342041 | |
| 1 | 93,900,000 | 94,050,000 | 1253 | 996 | 1.386015128 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------|
| 1 | 93,975,000 | 94,125,000 | 1254 | 1063 | -0.140531986 | |
| 1 | 94,050,000 | 94,200,000 | 1255 | 904 | -0.988723886 | |
| 1 | 94,125,000 | 94,275,000 | 1256 | 511 | 0.381230841 | |
| 1 | 94,200,000 | 94,350,000 | 1257 | 493 | 0.840523007 | |
| 1 | 94,275,000 | 94,425,000 | 1258 | 921 | -1.635019451 | |
| 1 | 94,350,000 | 94,500,000 | 1259 | 1062 | -2.203436622 | |
| 1 | 94,425,000 | 94,575,000 | 1260 | 729 | -2.004699493 | |
| 1 | 94,500,000 | 94,650,000 | 1261 | 766 | -0.909984336 | |
| 1 | 94,575,000 | 94,725,000 | 1262 | 789 | -0.995073297 | |
| 1 | 94,650,000 | 94,800,000 | 1263 | 697 | -0.417826038 | |
| 1 | 94,725,000 | 94,875,000 | 1264 | 992 | 0.231752233 | |
| 1 | 94,800,000 | 94,950,000 | 1265 | 954 | 0.194632253 | |
| 1 | 94,875,000 | 95,025,000 | 1266 | 537 | 0.873167804 | SPATA16 |
| 1 | 94,950,000 | 95,100,000 | 1267 | 750 | 0.946917956 | SPATA16 |
| 1 | 95,025,000 | 95,175,000 | 1268 | 1709 | 1.027052804 | GPX5,GPX6,SPATA16 |
| 1 | 95,100,000 | 95,250,000 | 1269 | 1837 | 0.775859015 | GPX5,GPX6,SPATA16,ZSCAN23 |
| 1 | 95,175,000 | 95,325,000 | 1270 | 1184 | -0.169474833 | SPATA16,ZSCAN23 |
| 1 | 95,250,000 | 95,400,000 | 1271 | 888 | -0.320739172 | SPATA16 |
| 1 | 95,325,000 | 95,475,000 | 1272 | 656 | -0.093685617 | SPATA16 |
| 1 | 95,400,000 | 95,550,000 | 1273 | 449 | -0.318291146 | ECT2 |
| 1 | 95,475,000 | 95,625,000 | 1274 | 341 | 0.047605701 | ECT2,NCEH1 |
| 1 | 95,550,000 | 95,700,000 | 1275 | 500 | 1.040667618 | NCEH1 |
| 1 | 95,625,000 | 95,775,000 | 1276 | 708 | 0.817453753 | NCEH1,TNFSF10 |
| 1 | 95,700,000 | 95,850,000 | 1277 | 815 | -0.084585649 | GHSR,TNFSF10 |
| 1 | 95,775,000 | 95,925,000 | 1278 | 734 | -0.709092965 | FNDC3B,GHSR |
| 1 | 95,850,000 | 96,000,000 | 1279 | 559 | -0.731034797 | FNDC3B |
| 1 | 95,925,000 | 96,075,000 | 1280 | 451 | -0.062131086 | FNDC3B |
| 1 | 96,000,000 | 96,150,000 | 1281 | 391 | 0.407629439 | FNDC3B |
| 1 | 96,075,000 | 96,225,000 | 1282 | 536 | 0.220227985 | FNDC3B |
| 1 | 96,150,000 | 96,300,000 | 1283 | 596 | -0.108853212 | FNDC3B |
| 1 | 96,225,000 | 96,375,000 | 1284 | 574 | -0.118812799 | |
| 1 | 96,300,000 | 96,450,000 | 1285 | 590 | 0.135660718 | TMEM212 |
| 1 | 96,375,000 | 96,525,000 | 1286 | 549 | -0.901521675 | PRKCSH,TMEM212 |
| 1 | 96,450,000 | 96,600,000 | 1287 | 694 | -0.825764302 | PRKCSH |
| 1 | 96,525,000 | 96,675,000 | 1288 | 826 | 0.748396276 | PRKCSH |
| 1 | 96,600,000 | 96,750,000 | 1289 | 626 | 0.850813485 | PRKCSH |
| 1 | 96,675,000 | 96,825,000 | 1290 | 574 | -0.959279685 | PRKCSH,TNIK |
| 1 | 96,750,000 | 96,900,000 | 1291 | 533 | -0.858745553 | TNIK |
| 1 | 96,825,000 | 96,975,000 | 1292 | 568 | 1.145148919 | TNIK,ENSBTAG00000031795 |
| 1 | 96,900,000 | 97,050,000 | 1293 | 735 | 1.22860521 | TNIK,ENSBTAG00000031795 |
| 1 | 96,975,000 | 97,125,000 | 1294 | 991 | -0.176125622 | TNIK |
| 1 | 97,050,000 | 97,200,000 | 1295 | 932 | -0.397848005 | TNIK |
| 1 | 97,125,000 | 97,275,000 | 1296 | 831 | 0.124705223 | SLC2A2,TNIK |
| 1 | 97,200,000 | 97,350,000 | 1297 | 1141 | -1.0255359 | EIF5A2,RPL22L1,SLC2A2 |
| 1 | 97,275,000 | 97,425,000 | 1298 | 947 | -1.246401602 | EIF5A2,RPL22L1 |
| 1 | 97,350,000 | 97,500,000 | 1299 | 764 | 0.578529278 | |
| 1 | 97,425,000 | 97,575,000 | 1300 | 878 | 0.446481635 | |
| 1 | 97,500,000 | 97,650,000 | 1301 | 841 | -0.731712453 | |
| 1 | 97,575,000 | 97,725,000 | 1302 | 971 | -1.285027304 | SLC7A14 |
| 1 | 97,650,000 | 97,800,000 | 1303 | 998 | -0.740102578 | CLDN11,SLC7A14 |
| 1 | 97,725,000 | 97,875,000 | 1304 | 765 | -0.548010494 | CLDN11,SKIL,SLC7A14 |
| 1 | 97,800,000 | 97,950,000 | 1305 | 818 | -1.268699776 | CLDN11,PRKCI,SKIL |
| 1 | 97,875,000 | 98,025,000 | 1306 | 817 | -1.424153397 | PHC3,PRKCI |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 97,950,000 | 98,100,000 | 1307 | 832 | -0.908764673 | GPR160,PHC3,PRKCI |
| 1 | 98,025,000 | 98,175,000 | 1308 | 1154 | -0.22391748 | GPR160,PHC3,ENSBTAG00000045991 |
| 1 | 98,100,000 | 98,250,000 | 1309 | 1163 | 0.353973063 | SAMD7,SEC62,ENSBTAG00000045991 |
| 1 | 98,175,000 | 98,325,000 | 1310 | 900 | 0.987425745 | LRRC31,SAMD7,SEC62 |
| 1 | 98,250,000 | 98,400,000 | 1311 | 734 | 1.126406827 | ARPM1,LRRC31,LRRC34,LRRIQ4,MYNN,SAMD7 |
| 1 | 98,325,000 | 98,475,000 | 1312 | 594 | 0.950817064 | ARPM1,LRRC31,LRRC34,LRRIQ4,MYNN |
| 1 | 98,400,000 | 98,550,000 | 1313 | 863 | 0.080595196 | |
| 1 | 98,475,000 | 98,625,000 | 1314 | 1107 | 0.032531723 | |
| 1 | 98,550,000 | 98,700,000 | 1315 | 1292 | 0.576545976 | |
| 1 | 98,625,000 | 98,775,000 | 1316 | 1256 | 0.661279505 | |
| 1 | 98,700,000 | 98,850,000 | 1317 | 968 | 0.482906549 | ENSBTAG00000047144 |
| 1 | 98,775,000 | 98,925,000 | 1318 | 801 | 0.357248694 | ENSBTAG00000047144 |
| 1 | 98,850,000 | 99,000,000 | 1319 | 569 | 0.247702435 | |
| 1 | 98,925,000 | 99,075,000 | 1320 | 588 | 0.612852849 | |
| 1 | 99,000,000 | 99,150,000 | 1321 | 719 | -0.234442679 | MECOM |
| 1 | 99,075,000 | 99,225,000 | 1322 | 1068 | -0.505354027 | MECOM |
| 1 | 99,150,000 | 99,300,000 | 1323 | 1492 | 0.581989562 | |
| 1 | 99,225,000 | 99,375,000 | 1324 | 1312 | 0.641967195 | |
| 1 | 99,300,000 | 99,450,000 | 1325 | 875 | -0.390189495 | |
| 1 | 99,375,000 | 99,525,000 | 1326 | 622 | -0.294224973 | |
| 1 | 99,450,000 | 99,600,000 | 1327 | 724 | 0.450096595 | |
| 1 | 99,525,000 | 99,675,000 | 1328 | 1067 | 0.816820741 | |
| 1 | 99,600,000 | 99,750,000 | 1329 | 1163 | 1.041805556 | |
| 1 | 99,675,000 | 99,825,000 | 1330 | 1119 | 1.067008811 | |
| 1 | 99,750,000 | 99,900,000 | 1331 | 800 | 0.953640752 | |
| 1 | 99,825,000 | 99,975,000 | 1332 | 739 | 1.08466349 | |
| 1 | 99,900,000 | 100,050,000 | 1333 | 947 | 0.326357374 | |
| 1 | 99,975,000 | 100,125,000 | 1334 | 815 | 0.35257433 | |
| 1 | 100,050,000 | 100,200,000 | 1335 | 659 | 0.618714449 | GOLIM4 |
| 1 | 100,125,000 | 100,275,000 | 1336 | 555 | 0.094444955 | GOLIM4 |
| 1 | 100,200,000 | 100,350,000 | 1337 | 723 | -0.20469645 | GOLIM4,MGC133804 |
| 1 | 100,275,000 | 100,425,000 | 1338 | 764 | -0.34359542 | MGC133804 |
| 1 | 100,350,000 | 100,500,000 | 1339 | 622 | -0.123578984 | MGC133804,SERPINI1 |
| 1 | 100,425,000 | 100,575,000 | 1340 | 556 | 0.267715008 | PDCD10,SERPINI1 |
| 1 | 100,500,000 | 100,650,000 | 1341 | 423 | 0.617439302 | MGC151671,PDCD10,SERPINI1 |
| 1 | 100,575,000 | 100,725,000 | 1342 | 645 | -2.368558773 | MGC151671,PDCD10,WDR49 |
| 1 | 100,650,000 | 100,800,000 | 1343 | 1028 | -2.360405088 | MGC151671,SERPINI2,WDR49 |
| 1 | 100,725,000 | 100,875,000 | 1344 | 1518 | -0.363960204 | SERPINI2,WDR49 |
| 1 | 100,800,000 | 100,950,000 | 1345 | 1381 | 0.124991797 | SERPINI2,ZBBX |
| 1 | 100,875,000 | 101,025,000 | 1346 | 918 | 0.636485803 | ZBBX |
| 1 | 100,950,000 | 101,100,000 | 1347 | 1041 | 0.470466117 | ZBBX |
| 1 | 101,025,000 | 101,175,000 | 1348 | 1300 | 0.388358901 | |
| 1 | 101,100,000 | 101,250,000 | 1349 | 1112 | 0.641622554 | |
| 1 | 101,175,000 | 101,325,000 | 1350 | 730 | 0.501107155 | |
| 1 | 101,250,000 | 101,400,000 | 1351 | 669 | -0.344049061 | |
| 1 | 101,325,000 | 101,475,000 | 1352 | 1061 | 0.635994219 | |
| 1 | 101,400,000 | 101,550,000 | 1353 | 1044 | 1.115146778 | |
| 1 | 101,475,000 | 101,625,000 | 1354 | 471 | 1.150190017 | |
| 1 | 101,550,000 | 101,700,000 | 1355 | 621 | 1.501765096 | |
| 1 | 101,625,000 | 101,775,000 | 1356 | 857 | 1.495312063 | |
| 1 | 101,700,000 | 101,850,000 | 1357 | 853 | 1.020867734 | |
| 1 | 101,775,000 | 101,925,000 | 1358 | 1048 | 0.225572736 | |
| 1 | 101,850,000 | 102,000,000 | 1359 | 1333 | 0.741532298 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 101,925,000 | 102,075,000 | 1360 | 1322 | -0.094734476 | |
| 1 | 102,000,000 | 102,150,000 | 1361 | 1047 | -0.543257565 | |
| 1 | 102,075,000 | 102,225,000 | 1362 | 1054 | 1.065014843 | |
| 1 | 102,150,000 | 102,300,000 | 1363 | 1014 | 1.07716653 | |
| 1 | 102,225,000 | 102,375,000 | 1364 | 716 | -0.032706276 | BCHE |
| 1 | 102,300,000 | 102,450,000 | 1365 | 666 | -1.735212683 | BCHE |
| 1 | 102,375,000 | 102,525,000 | 1366 | 731 | -0.524583919 | BCHE |
| 1 | 102,450,000 | 102,600,000 | 1367 | 609 | -0.164895737 | |
| 1 | 102,525,000 | 102,675,000 | 1368 | 782 | -0.086775105 | |
| 1 | 102,600,000 | 102,750,000 | 1369 | 944 | 0.334893328 | |
| 1 | 102,675,000 | 102,825,000 | 1370 | 645 | 0.652067259 | |
| 1 | 102,750,000 | 102,900,000 | 1371 | 497 | 0.036571834 | |
| 1 | 102,825,000 | 102,975,000 | 1372 | 403 | -1.291246786 | |
| 1 | 102,900,000 | 103,050,000 | 1373 | 477 | 0.000116885 | SLITRK3 |
| 1 | 102,975,000 | 103,125,000 | 1374 | 983 | 0.682790277 | SI,SLITRK3 |
| 1 | 103,050,000 | 103,200,000 | 1375 | 1135 | 0.827789134 | SI |
| 1 | 103,125,000 | 103,275,000 | 1376 | 761 | 0.639903715 | SI |
| 1 | 103,200,000 | 103,350,000 | 1377 | 613 | -0.697022613 | SI |
| 1 | 103,275,000 | 103,425,000 | 1378 | 804 | -1.648541037 | |
| 1 | 103,350,000 | 103,500,000 | 1379 | 784 | -0.797290454 | |
| 1 | 103,425,000 | 103,575,000 | 1380 | 620 | 0.086854711 | |
| 1 | 103,500,000 | 103,650,000 | 1381 | 958 | 0.258859775 | |
| 1 | 103,575,000 | 103,725,000 | 1382 | 1398 | -0.294124036 | |
| 1 | 103,650,000 | 103,800,000 | 1383 | 1304 | -0.563806433 | |
| 1 | 103,725,000 | 103,875,000 | 1384 | 1270 | 0.207646891 | |
| 1 | 103,800,000 | 103,950,000 | 1385 | 1369 | 0.667991452 | |
| 1 | 103,875,000 | 104,025,000 | 1386 | 1414 | 1.255526358 | |
| 1 | 103,950,000 | 104,100,000 | 1387 | 1730 | 1.233667864 | |
| 1 | 104,025,000 | 104,175,000 | 1388 | 1224 | 1.011249876 | ENSBTAG00000018312 |
| 1 | 104,100,000 | 104,250,000 | 1389 | 495 | 0.179356092 | ENSBTAG00000018312 |
| 1 | 104,175,000 | 104,325,000 | 1390 | 704 | -0.135449727 | |
| 1 | 104,250,000 | 104,400,000 | 1391 | 734 | 0.317551548 | |
| 1 | 104,325,000 | 104,475,000 | 1392 | 748 | 1.283891595 | |
| 1 | 104,400,000 | 104,550,000 | 1393 | 962 | 1.541473116 | |
| 1 | 104,475,000 | 104,625,000 | 1394 | 1099 | 1.500495594 | |
| 1 | 104,550,000 | 104,700,000 | 1395 | 1049 | 1.33784278 | |
| 1 | 104,625,000 | 104,775,000 | 1396 | 836 | 0.708829334 | |
| 1 | 104,700,000 | 104,850,000 | 1397 | 906 | -0.172273647 | |
| 1 | 104,775,000 | 104,925,000 | 1398 | 1027 | 0.238690845 | |
| 1 | 104,850,000 | 105,000,000 | 1399 | 1261 | 0.4050043 | |
| 1 | 104,925,000 | 105,075,000 | 1400 | 1250 | 0.621996094 | |
| 1 | 105,000,000 | 105,150,000 | 1401 | 934 | 0.50828159 | |
| 1 | 105,075,000 | 105,225,000 | 1402 | 1207 | 0.140254416 | ENSBTAG00000027213 |
| 1 | 105,150,000 | 105,300,000 | 1403 | 1254 | 0.618608248 | ENSBTAG00000025847,ENSBTAG00000027213 |
| 1 | 105,225,000 | 105,375,000 | 1404 | 1232 | 0.665902818 | ENSBTAG00000025847 |
| 1 | 105,300,000 | 105,450,000 | 1405 | 1404 | 0.410812888 | |
| 1 | 105,375,000 | 105,525,000 | 1406 | 974 | -0.285158706 | |
| 1 | 105,450,000 | 105,600,000 | 1407 | 532 | -0.406998494 | |
| 1 | 105,525,000 | 105,675,000 | 1408 | 524 | -0.046401824 | |
| 1 | 105,600,000 | 105,750,000 | 1409 | 1521 | -0.512335569 | |
| 1 | 105,675,000 | 105,825,000 | 1410 | 1864 | -0.601054517 | |
| 1 | 105,750,000 | 105,900,000 | 1411 | 1465 | 0.084356747 | |
| 1 | 105,825,000 | 105,975,000 | 1412 | 1332 | 1.112456137 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 1 | 105,900,000 | 106,050,000 | 1413 | 993 | 0.841926791 | |
| 1 | 105,975,000 | 106,125,000 | 1414 | 686 | 0.994982059 | |
| 1 | 106,050,000 | 106,200,000 | 1415 | 395 | 1.281020349 | |
| 1 | 106,125,000 | 106,275,000 | 1416 | 365 | 0.521422381 | |
| 1 | 106,200,000 | 106,350,000 | 1417 | 411 | 0.385566731 | |
| 1 | 106,275,000 | 106,425,000 | 1418 | 581 | 0.005221736 | |
| 1 | 106,350,000 | 106,500,000 | 1419 | 575 | 0.017290203 | |
| 1 | 106,425,000 | 106,575,000 | 1420 | 484 | 0.346430053 | |
| 1 | 106,500,000 | 106,650,000 | 1421 | 510 | -1.683639335 | |
| 1 | 106,575,000 | 106,725,000 | 1422 | 640 | -0.798691943 | OTOL1 |
| 1 | 106,650,000 | 106,800,000 | 1423 | 646 | 0.740190804 | OTOL1 |
| 1 | 106,725,000 | 106,875,000 | 1424 | 577 | 0.586533808 | OTOL1 |
| 1 | 106,800,000 | 106,950,000 | 1425 | 483 | -0.027248611 | SPTSSB |
| 1 | 106,875,000 | 107,025,000 | 1426 | 291 | 0.336839765 | NMD3,SPTSSB |
| 1 | 106,950,000 | 107,100,000 | 1427 | 769 | 1.163044514 | NMD3 |
| 1 | 107,025,000 | 107,175,000 | 1428 | 848 | 1.177577316 | |
| 1 | 107,100,000 | 107,250,000 | 1429 | 687 | 1.135571865 | B3GALNT1,PPM1L |
| 1 | 107,175,000 | 107,325,000 | 1430 | 884 | 0.754692306 | B3GALNT1,PPM1L |
| 1 | 107,250,000 | 107,400,000 | 1431 | 1037 | 0.531289251 | PPM1L |
| 1 | 107,325,000 | 107,475,000 | 1432 | 867 | 0.948055974 | PPM1L |
| 1 | 107,400,000 | 107,550,000 | 1433 | 569 | 0.087144559 | PPM1L |
| 1 | 107,475,000 | 107,625,000 | 1434 | 617 | 0.164239042 | PPM1L |
| 1 | 107,550,000 | 107,700,000 | 1435 | 623 | 0.30647655 | ARL14,PPM1L |
| 1 | 107,625,000 | 107,775,000 | 1436 | 709 | 0.601895563 | ARL14,KPNA4 |
| 1 | 107,700,000 | 107,850,000 | 1437 | 463 | 1.180628842 | KPNA4 |
| 1 | 107,775,000 | 107,925,000 | 1438 | 204 | 1.102647632 | KPNA4,MGC137058,SMC4 |
| 1 | 107,850,000 | 108,000,000 | 1439 | 258 | 0.981965613 | IFT80,MGC137058,SMC4 |
| 1 | 107,925,000 | 108,075,000 | 1440 | 328 | 1.102877721 | IFT80,SMC4 |
| 1 | 108,000,000 | 108,150,000 | 1441 | 371 | 0.38802007 | C3orf80,IFT80 |
| 1 | 108,075,000 | 108,225,000 | 1442 | 575 | -0.058400235 | C3orf80 |
| 1 | 108,150,000 | 108,300,000 | 1443 | 725 | -0.385007083 | IL12A |
| 1 | 108,225,000 | 108,375,000 | 1444 | 728 | -0.414659662 | IL12A |
| 1 | 108,300,000 | 108,450,000 | 1445 | 802 | 0.610411764 | SCHIP1 |
| 1 | 108,375,000 | 108,525,000 | 1446 | 598 | 0.55157764 | SCHIP1 |
| 1 | 108,450,000 | 108,600,000 | 1447 | 326 | -0.096729169 | SCHIP1 |
| 1 | 108,525,000 | 108,675,000 | 1448 | 529 | 0.2619176 | |
| 1 | 108,600,000 | 108,750,000 | 1449 | 1062 | -0.089320005 | |
| 1 | 108,675,000 | 108,825,000 | 1450 | 1165 | 0.285639397 | |
| 1 | 108,750,000 | 108,900,000 | 1451 | 1121 | 1.198369464 | |
| 1 | 108,825,000 | 108,975,000 | 1452 | 1322 | 1.024863043 | |
| 1 | 108,900,000 | 109,050,000 | 1453 | 1230 | 0.660957649 | |
| 1 | 108,975,000 | 109,125,000 | 1454 | 1123 | -0.322572807 | IQCJ |
| 1 | 109,050,000 | 109,200,000 | 1455 | 1387 | -0.230497862 | IQCJ |
| 1 | 109,125,000 | 109,275,000 | 1456 | 1514 | 0.447567036 | |
| 1 | 109,200,000 | 109,350,000 | 1457 | 1176 | 0.679900362 | |
| 1 | 109,275,000 | 109,425,000 | 1458 | 792 | 0.775344315 | |
| 1 | 109,350,000 | 109,500,000 | 1459 | 812 | 0.537447818 | |
| 1 | 109,425,000 | 109,575,000 | 1460 | 937 | -0.220357033 | MFSD1,ENSBTAG00000038395 |
| 1 | 109,500,000 | 109,650,000 | 1461 | 696 | -1.437074801 | MFSD1,ENSBTAG00000038395 |
| 1 | 109,575,000 | 109,725,000 | 1462 | 868 | -0.370304491 | GFM1,LXN,MFSD1,RARRES1 |
| 1 | 109,650,000 | 109,800,000 | 1463 | 908 | 0.908866069 | GFM1,LXN,MLF1,RARRES1 |
| 1 | 109,725,000 | 109,875,000 | 1464 | 397 | 0.692699951 | GFM1,LXN,MLF1,RSRC1 |
| 1 | 109,800,000 | 109,950,000 | 1465 | 230 | 0.093012412 | RSRC1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 1 | 109,875,000 | 110,025,000 | 1466 | 247 | 0.349969637 | RSRC1,ENSBTAG00000047570 |
| 1 | 109,950,000 | 110,100,000 | 1467 | 386 | 0.272084358 | RSRC1,ENSBTAG00000047570 |
| 1 | 110,025,000 | 110,175,000 | 1468 | 617 | 0.757520176 | RSRC1,ENSBTAG00000047570 |
| 1 | 110,100,000 | 110,250,000 | 1469 | 673 | 1.114321062 | RSRC1 |
| 1 | 110,175,000 | 110,325,000 | 1470 | 409 | 0.97788951 | RSRC1,SHOX2 |
| 1 | 110,250,000 | 110,400,000 | 1471 | 533 | -0.381312995 | RSRC1,SHOX2 |
| 1 | 110,325,000 | 110,475,000 | 1472 | 621 | -0.286949247 | |
| 1 | 110,400,000 | 110,550,000 | 1473 | 331 | 0.563878272 | |
| 1 | 110,475,000 | 110,625,000 | 1474 | 442 | 0.683036895 | |
| 1 | 110,550,000 | 110,700,000 | 1475 | 458 | 0.745707171 | |
| 1 | 110,625,000 | 110,775,000 | 1476 | 619 | 0.280589086 | |
| 1 | 110,700,000 | 110,850,000 | 1477 | 950 | 0.153652857 | |
| 1 | 110,775,000 | 110,925,000 | 1478 | 750 | -0.115691423 | |
| 1 | 110,850,000 | 111,000,000 | 1479 | 605 | -0.180750521 | VEPH1 |
| 1 | 110,925,000 | 111,075,000 | 1480 | 752 | -0.282869006 | PTX3,VEPH1 |
| 1 | 111,000,000 | 111,150,000 | 1481 | 1063 | 0.362675876 | PTX3,VEPH1 |
| 1 | 111,075,000 | 111,225,000 | 1482 | 1449 | 0.474823078 | VEPH1 |
| 1 | 111,150,000 | 111,300,000 | 1483 | 1320 | -0.501315518 | VEPH1 |
| 1 | 111,225,000 | 111,375,000 | 1484 | 974 | -0.588818622 | CCNL1 |
| 1 | 111,300,000 | 111,450,000 | 1485 | 980 | 0.736394753 | CCNL1,ENSBTAG00000018009 |
| 1 | 111,375,000 | 111,525,000 | 1486 | 943 | 1.171487474 | ENSBTAG00000018009 |
| 1 | 111,450,000 | 111,600,000 | 1487 | 1027 | 1.206659989 | ENSBTAG00000018009 |
| 1 | 111,525,000 | 111,675,000 | 1488 | 898 | 0.842614146 | |
| 1 | 111,600,000 | 111,750,000 | 1489 | 552 | 0.64100857 | |
| 1 | 111,675,000 | 111,825,000 | 1490 | 370 | 1.297044599 | |
| 1 | 111,750,000 | 111,900,000 | 1491 | 219 | 1.23785888 | TIPARP |
| 1 | 111,825,000 | 111,975,000 | 1492 | 392 | 0.309190064 | TIPARP |
| 1 | 111,900,000 | 112,050,000 | 1493 | 418 | -0.207048491 | KCNAB1,SSR3 |
| 1 | 111,975,000 | 112,125,000 | 1494 | 482 | 0.882646638 | KCNAB1,SSR3 |
| 1 | 112,050,000 | 112,200,000 | 1495 | 829 | 1.271707194 | KCNAB1 |
| 1 | 112,125,000 | 112,275,000 | 1496 | 964 | -4.411239193 | KCNAB1 |
| 1 | 112,200,000 | 112,350,000 | 1497 | 969 | -5.067664638 | KCNAB1 |
| 1 | 112,275,000 | 112,425,000 | 1498 | 867 | -0.691212024 | KCNAB1 |
| 1 | 112,350,000 | 112,500,000 | 1499 | 913 | -1.417768669 | KCNAB1 |
| 1 | 112,425,000 | 112,575,000 | 1500 | 1099 | -0.925425417 | KCNAB1,ENSBTAG00000009622 |
| 1 | 112,500,000 | 112,650,000 | 1501 | 1315 | 0.704373651 | GMPS,ENSBTAG00000009622 |
| 1 | 112,575,000 | 112,725,000 | 1502 | 1329 | 0.264617622 | GMPS |
| 1 | 112,650,000 | 112,800,000 | 1503 | 1045 | 0.200293407 | C3orf33,GMPS,SLC33A1 |
| 1 | 112,725,000 | 112,875,000 | 1504 | 1001 | 0.642363941 | C3orf33,SLC33A1 |
| 1 | 112,800,000 | 112,950,000 | 1505 | 856 | 0.45028692 | C3orf33 |
| 1 | 112,875,000 | 113,025,000 | 1506 | 698 | -0.939686419 | PLCH1 |
| 1 | 112,950,000 | 113,100,000 | 1507 | 1071 | -1.227269181 | PLCH1 |
| 1 | 113,025,000 | 113,175,000 | 1508 | 1592 | -2.293590371 | PLCH1 |
| 1 | 113,100,000 | 113,250,000 | 1509 | 1286 | -2.209577807 | |
| 1 | 113,175,000 | 113,325,000 | 1510 | 1000 | 0.042449768 | |
| 1 | 113,250,000 | 113,400,000 | 1511 | 1019 | 0.409091023 | MME |
| 1 | 113,325,000 | 113,475,000 | 1512 | 820 | 0.888325012 | MME |
| 1 | 113,400,000 | 113,550,000 | 1513 | 857 | 1.364253331 | MME |
| 1 | 113,475,000 | 113,625,000 | 1514 | 802 | 1.468783094 | MME,ENSBTAG00000024623 |
| 1 | 113,550,000 | 113,700,000 | 1515 | 671 | 1.318888075 | ENSBTAG00000024623 |
| 1 | 113,625,000 | 113,775,000 | 1516 | 854 | 1.040783206 | |
| 1 | 113,700,000 | 113,850,000 | 1517 | 669 | 0.989436428 | |
| 1 | 113,775,000 | 113,925,000 | 1518 | 270 | 0.43200037 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 113,850,000 | 114,000,000 | 1519 | 704 | 1.06571279 | |
| 1 | 113,925,000 | 114,075,000 | 1520 | 755 | 1.18853862 | |
| 1 | 114,000,000 | 114,150,000 | 1521 | 714 | -0.095029378 | GPR149 |
| 1 | 114,075,000 | 114,225,000 | 1522 | 1269 | -0.052719315 | GPR149 |
| 1 | 114,150,000 | 114,300,000 | 1523 | 1258 | 0.247533707 | ARHGEF26,DHX36,GPR149 |
| 1 | 114,225,000 | 114,375,000 | 1524 | 1016 | -0.169249136 | ARHGEF26,DHX36,GPR149 |
| 1 | 114,300,000 | 114,450,000 | 1525 | 888 | -0.438246065 | ARHGEF26 |
| 1 | 114,375,000 | 114,525,000 | 1526 | 743 | 0.226714438 | ARHGEF26 |
| 1 | 114,450,000 | 114,600,000 | 1527 | 967 | -0.752551299 | |
| 1 | 114,525,000 | 114,675,000 | 1528 | 1222 | -0.628848611 | |
| 1 | 114,600,000 | 114,750,000 | 1529 | 1131 | -0.006387717 | YWHAH |
| 1 | 114,675,000 | 114,825,000 | 1530 | 813 | 0.0616568 | YWHAH |
| 1 | 114,750,000 | 114,900,000 | 1531 | 749 | 0.060291763 | |
| 1 | 114,825,000 | 114,975,000 | 1532 | 1107 | 0.793701429 | |
| 1 | 114,900,000 | 115,050,000 | 1533 | 1161 | 0.728938714 | |
| 1 | 114,975,000 | 115,125,000 | 1534 | 1384 | 0.822960098 | |
| 1 | 115,050,000 | 115,200,000 | 1535 | 1631 | 1.020765469 | |
| 1 | 115,125,000 | 115,275,000 | 1536 | 1440 | 1.044369219 | |
| 1 | 115,200,000 | 115,350,000 | 1537 | 917 | 1.062388034 | ENSBTAG00000047341 |
| 1 | 115,275,000 | 115,425,000 | 1538 | 1032 | -3.213667688 | ENSBTAG00000047341 |
| 1 | 115,350,000 | 115,500,000 | 1539 | 1198 | -3.654571876 | RAP2B |
| 1 | 115,425,000 | 115,575,000 | 1540 | 919 | -2.253606312 | RAP2B |
| 1 | 115,500,000 | 115,650,000 | 1541 | 700 | -1.300028441 | |
| 1 | 115,575,000 | 115,725,000 | 1542 | 325 | 0.310024608 | |
| 1 | 115,650,000 | 115,800,000 | 1543 | 463 | -1.128676447 | |
| 1 | 115,725,000 | 115,875,000 | 1544 | 566 | -0.832495983 | P2RY1 |
| 1 | 115,800,000 | 115,950,000 | 1545 | 512 | 0.090195024 | P2RY1 |
| 1 | 115,875,000 | 116,025,000 | 1546 | 539 | 0.580244354 | |
| 1 | 115,950,000 | 116,100,000 | 1547 | 442 | 0.993457719 | |
| 1 | 116,025,000 | 116,175,000 | 1548 | 407 | -0.403789187 | |
| 1 | 116,100,000 | 116,250,000 | 1549 | 687 | 0.443896178 | MBNL1 |
| 1 | 116,175,000 | 116,325,000 | 1550 | 616 | 0.968081576 | MBNL1 |
| 1 | 116,250,000 | 116,400,000 | 1551 | 612 | -0.993916959 | MBNL1 |
| 1 | 116,325,000 | 116,475,000 | 1552 | 884 | -0.832299431 | MBNL1 |
| 1 | 116,400,000 | 116,550,000 | 1553 | 807 | 0.41707004 | |
| 1 | 116,475,000 | 116,625,000 | 1554 | 864 | 0.045326332 | |
| 1 | 116,550,000 | 116,700,000 | 1555 | 1034 | -0.09188384 | |
| 1 | 116,625,000 | 116,775,000 | 1556 | 821 | -1.151301053 | |
| 1 | 116,700,000 | 116,850,000 | 1557 | 609 | -2.376731207 | |
| 1 | 116,775,000 | 116,925,000 | 1558 | 462 | -1.25083158 | SUCNR1 |
| 1 | 116,850,000 | 117,000,000 | 1559 | 228 | -0.844382843 | AADAC,SUCNR1 |
| 1 | 116,925,000 | 117,075,000 | 1560 | 181 | 0.34516423 | AADAC |
| 1 | 117,000,000 | 117,150,000 | 1561 | 244 | -0.491893238 | AADACL2 |
| 1 | 117,075,000 | 117,225,000 | 1562 | 237 | -0.429618717 | AADACL2 |
| 1 | 117,150,000 | 117,300,000 | 1563 | 337 | -3.205476435 | AADACL2,ENSBTAG00000010385 |
| 1 | 117,225,000 | 117,375,000 | 1564 | 770 | -1.890127145 | ENSBTAG00000010385 |
| 1 | 117,300,000 | 117,450,000 | 1565 | 905 | 0.346828682 | ENSBTAG00000023447 |
| 1 | 117,375,000 | 117,525,000 | 1566 | 574 | 1.230363148 | ENSBTAG00000023447 |
| 1 | 117,450,000 | 117,600,000 | 1567 | 523 | 0.476256844 | IGSF10,MED12L,P2RY12 |
| 1 | 117,525,000 | 117,675,000 | 1568 | 575 | 0.506565039 | IGSF10,MED12L,P2RY12 |
| 1 | 117,600,000 | 117,750,000 | 1569 | 563 | 0.28724861 | GPR87,MED12L,P2RY12,P2RY13,ENSBTAG000000460 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 117,675,000 | 117,825,000 | 1570 | 760 | -0.562581934 | GPR87,MED12L,P2RY13,P2RY14,ENSBTAG00000046051 |
| 1 | 117,750,000 | 117,900,000 | 1571 | 604 | -0.416074732 | GPR171,MED12L,P2RY14 |
| 1 | 117,825,000 | 117,975,000 | 1572 | 400 | -0.270106383 | GPR171,MED12L |
| 1 | 117,900,000 | 118,050,000 | 1573 | 528 | -0.167193514 | MED12L |
| 1 | 117,975,000 | 118,125,000 | 1574 | 712 | 0.721951726 | ENSBTAG00000011267 |
| 1 | 118,050,000 | 118,200,000 | 1575 | 907 | 0.330725031 | ENSBTAG00000011267,ENSBTAG00000038069 |
| 1 | 118,125,000 | 118,275,000 | 1576 | 676 | 0.26049998 | ENSBTAG00000011267,ENSBTAG00000038069 |
| 1 | 118,200,000 | 118,350,000 | 1577 | 489 | 0.886038269 | SIAH2,ENSBTAG00000038069 |
| 1 | 118,275,000 | 118,425,000 | 1578 | 1145 | 0.399508683 | ERICH6,SIAH2 |
| 1 | 118,350,000 | 118,500,000 | 1579 | 1352 | 0.232982245 | EIF2A,ERICH6,SELT |
| 1 | 118,425,000 | 118,575,000 | 1580 | 899 | 0.031463532 | EIF2A,SELT,SERP1 |
| 1 | 118,500,000 | 118,650,000 | 1581 | 790 | 0.637110999 | EIF2A,SERP1,TSC22D2 |
| 1 | 118,575,000 | 118,725,000 | 1582 | 889 | 0.743504005 | TSC22D2 |
| 1 | 118,650,000 | 118,800,000 | 1583 | 994 | 0.437938413 | TSC22D2 |
| 1 | 118,725,000 | 118,875,000 | 1584 | 1007 | 0.308458379 | |
| 1 | 118,800,000 | 118,950,000 | 1585 | 1140 | 0.766329963 | |
| 1 | 118,875,000 | 119,025,000 | 1586 | 1052 | 1.13927655 | |
| 1 | 118,950,000 | 119,100,000 | 1587 | 886 | 0.634839605 | |
| 1 | 119,025,000 | 119,175,000 | 1588 | 1100 | 0.505078149 | PFN2,RNF13 |
| 1 | 119,100,000 | 119,250,000 | 1589 | 1365 | 0.658337979 | PFN2,RNF13 |
| 1 | 119,175,000 | 119,325,000 | 1590 | 1484 | 0.512635805 | ANKUB1,RNF13 |
| 1 | 119,250,000 | 119,400,000 | 1591 | 1405 | -0.519146996 | ANKUB1,COMMD2,RNF13 |
| 1 | 119,325,000 | 119,475,000 | 1592 | 1132 | -1.450126983 | ANKUB1,COMMD2,WWTR1 |
| 1 | 119,400,000 | 119,550,000 | 1593 | 912 | -0.278100362 | WWTR1 |
| 1 | 119,475,000 | 119,625,000 | 1594 | 1024 | 0.367611811 | TM4SF4,WWTR1 |
| 1 | 119,550,000 | 119,700,000 | 1595 | 1334 | 0.903246949 | TM4SF4,WWTR1 |
| 1 | 119,625,000 | 119,775,000 | 1596 | 1259 | 1.121199965 | TM4SF1,TM4SF4 |
| 1 | 119,700,000 | 119,850,000 | 1597 | 842 | 1.121634187 | TM4SF1,TM4SF18 |
| 1 | 119,775,000 | 119,925,000 | 1598 | 858 | 0.617462423 | CP,TM4SF18 |
| 1 | 119,850,000 | 120,000,000 | 1599 | 993 | 0.388233879 | CP,HPS3,ENSBTAG00000048150 |
| 1 | 119,925,000 | 120,075,000 | 1600 | 816 | 0.926539522 | CP,HLTF,HPS3,ENSBTAG00000048150 |
| 1 | 120,000,000 | 120,150,000 | 1601 | 727 | 1.342773888 | GYG1,HLTF |
| 1 | 120,075,000 | 120,225,000 | 1602 | 867 | 1.115476383 | GYG1,HLTF |
| 1 | 120,150,000 | 120,300,000 | 1603 | 1136 | 0.693591965 | CPA3,PCPB |
| 1 | 120,225,000 | 120,375,000 | 1604 | 1249 | 0.304457065 | CPA3,PCPB |
| 1 | 120,300,000 | 120,450,000 | 1605 | 1160 | 0.338655044 | AGTR1,PCPB |
| 1 | 120,375,000 | 120,525,000 | 1606 | 1165 | 0.761166642 | AGTR1 |
| 1 | 120,450,000 | 120,600,000 | 1607 | 1161 | 0.766280669 | |
| 1 | 120,525,000 | 120,675,000 | 1608 | 1175 | 0.920784201 | |
| 1 | 120,600,000 | 120,750,000 | 1609 | 1043 | 0.67621066 | ENSBTAG00000046008 |
| 1 | 120,675,000 | 120,825,000 | 1610 | 966 | 0.806362946 | ENSBTAG00000046008 |
| 1 | 120,750,000 | 120,900,000 | 1611 | 1158 | 0.623489959 | |
| 1 | 120,825,000 | 120,975,000 | 1612 | 968 | -0.063295083 | |
| 1 | 120,900,000 | 121,050,000 | 1613 | 911 | -1.154661514 | |
| 1 | 120,975,000 | 121,125,000 | 1614 | 831 | -0.885158636 | |
| 1 | 121,050,000 | 121,200,000 | 1615 | 907 | 0.603047548 | |
| 1 | 121,125,000 | 121,275,000 | 1616 | 1143 | 0.570002342 | |
| 1 | 121,200,000 | 121,350,000 | 1617 | 880 | 0.605750749 | ENSBTAG00000039334 |
| 1 | 121,275,000 | 121,425,000 | 1618 | 1234 | 0.939303689 | ENSBTAG00000039334 |
| 1 | 121,350,000 | 121,500,000 | 1619 | 1499 | 0.26770763 | ENSBTAG00000025146 |
| 1 | 121,425,000 | 121,575,000 | 1620 | 1173 | -0.317527844 | ENSBTAG00000025146 |
| 1 | 121,500,000 | 121,650,000 | 1621 | 943 | 0.438959248 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------|
| 1 | 121,575,000 | 121,725,000 | 1622 | 969 | 0.989743447 | |
| 1 | 121,650,000 | 121,800,000 | 1623 | 863 | 0.567840806 | |
| 1 | 121,725,000 | 121,875,000 | 1624 | 719 | 0.521071871 | ZIC1,ZIC4 |
| 1 | 121,800,000 | 121,950,000 | 1625 | 738 | 0.407025527 | ZIC1,ZIC4 |
| 1 | 121,875,000 | 122,025,000 | 1626 | 781 | 0.346095665 | ZIC4 |
| 1 | 121,950,000 | 122,100,000 | 1627 | 928 | 0.974745946 | |
| 1 | 122,025,000 | 122,175,000 | 1628 | 1194 | 0.903115019 | |
| 1 | 122,100,000 | 122,250,000 | 1629 | 991 | -0.484892592 | |
| 1 | 122,175,000 | 122,325,000 | 1630 | 699 | -3.247887623 | |
| 1 | 122,250,000 | 122,400,000 | 1631 | 842 | -2.280504856 | |
| 1 | 122,325,000 | 122,475,000 | 1632 | 966 | -1.156045207 | |
| 1 | 122,400,000 | 122,550,000 | 1633 | 884 | -1.160057258 | |
| 1 | 122,475,000 | 122,625,000 | 1634 | 630 | -0.784823839 | |
| 1 | 122,550,000 | 122,700,000 | 1635 | 905 | 0.166252274 | |
| 1 | 122,625,000 | 122,775,000 | 1636 | 997 | 0.524739157 | |
| 1 | 122,700,000 | 122,850,000 | 1637 | 890 | 0.316054791 | PLSCR5 |
| 1 | 122,775,000 | 122,925,000 | 1638 | 1022 | 0.813749078 | PLSCR2,PLSCR5 |
| 1 | 122,850,000 | 123,000,000 | 1639 | 1215 | -0.025407376 | PLSCR2 |
| 1 | 122,925,000 | 123,075,000 | 1640 | 1280 | -0.283715337 | PLSCR1,PLSCR2 |
| 1 | 123,000,000 | 123,150,000 | 1641 | 893 | 0.87084978 | PLSCR1 |
| 1 | 123,075,000 | 123,225,000 | 1642 | 633 | 0.27336384 | |
| 1 | 123,150,000 | 123,300,000 | 1643 | 575 | 0.029960643 | PLSCR4 |
| 1 | 123,225,000 | 123,375,000 | 1644 | 364 | -1.668374138 | PLOD2,PLSCR4 |
| 1 | 123,300,000 | 123,450,000 | 1645 | 258 | -0.370400949 | PLOD2 |
| 1 | 123,375,000 | 123,525,000 | 1646 | 656 | -0.422343375 | PLOD2 |
| 1 | 123,450,000 | 123,600,000 | 1647 | 1115 | -0.51999571 | |
| 1 | 123,525,000 | 123,675,000 | 1648 | 1010 | -0.154587198 | |
| 1 | 123,600,000 | 123,750,000 | 1649 | 868 | -0.128453691 | |
| 1 | 123,675,000 | 123,825,000 | 1650 | 710 | -0.111094897 | |
| 1 | 123,750,000 | 123,900,000 | 1651 | 851 | 0.327972826 | |
| 1 | 123,825,000 | 123,975,000 | 1652 | 786 | 0.120675217 | |
| 1 | 123,900,000 | 124,050,000 | 1653 | 590 | -1.503446363 | |
| 1 | 123,975,000 | 124,125,000 | 1654 | 905 | -2.285040908 | |
| 1 | 124,050,000 | 124,200,000 | 1655 | 870 | -4.443256959 | |
| 1 | 124,125,000 | 124,275,000 | 1656 | 562 | -5.092955424 | |
| 1 | 124,200,000 | 124,350,000 | 1657 | 437 | -0.652632744 | |
| 1 | 124,275,000 | 124,425,000 | 1658 | 425 | -0.216489139 | |
| 1 | 124,350,000 | 124,500,000 | 1659 | 403 | 0.826030863 | |
| 1 | 124,425,000 | 124,575,000 | 1660 | 655 | 0.807815732 | |
| 1 | 124,500,000 | 124,650,000 | 1661 | 1029 | 0.504016535 | |
| 1 | 124,575,000 | 124,725,000 | 1662 | 1456 | 0.686000611 | |
| 1 | 124,650,000 | 124,800,000 | 1663 | 1459 | 0.952287437 | |
| 1 | 124,725,000 | 124,875,000 | 1664 | 1126 | 0.454142295 | |
| 1 | 124,800,000 | 124,950,000 | 1665 | 771 | 0.052074918 | |
| 1 | 124,875,000 | 125,025,000 | 1666 | 825 | 0.750198372 | |
| 1 | 124,950,000 | 125,100,000 | 1667 | 1242 | 0.612177741 | |
| 1 | 125,025,000 | 125,175,000 | 1668 | 1239 | 0.057401927 | |
| 1 | 125,100,000 | 125,250,000 | 1669 | 1301 | -1.18479549 | |
| 1 | 125,175,000 | 125,325,000 | 1670 | 1307 | -0.325667552 | |
| 1 | 125,250,000 | 125,400,000 | 1671 | 1172 | 0.890668018 | |
| 1 | 125,325,000 | 125,475,000 | 1672 | 954 | 1.029337308 | |
| 1 | 125,400,000 | 125,550,000 | 1673 | 828 | 0.401376605 | |
| 1 | 125,475,000 | 125,625,000 | 1674 | 777 | -0.425942298 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------------------|
| 1 | 125,550,000 | 125,700,000 | 1675 | 925 | -0.128155573 | |
| 1 | 125,625,000 | 125,775,000 | 1676 | 1189 | 0.294193923 | |
| 1 | 125,700,000 | 125,850,000 | 1677 | 958 | 0.269633849 | |
| 1 | 125,775,000 | 125,925,000 | 1678 | 776 | -0.259824507 | C1H3orf58 |
| 1 | 125,850,000 | 126,000,000 | 1679 | 1094 | -0.917415386 | C1H3orf58 |
| 1 | 125,925,000 | 126,075,000 | 1680 | 1007 | -1.436044608 | SLC9A9 |
| 1 | 126,000,000 | 126,150,000 | 1681 | 768 | -1.450336721 | SLC9A9 |
| 1 | 126,075,000 | 126,225,000 | 1682 | 911 | -2.642780491 | SLC9A9 |
| 1 | 126,150,000 | 126,300,000 | 1683 | 933 | -1.337403534 | SLC9A9 |
| 1 | 126,225,000 | 126,375,000 | 1684 | 912 | 0.055043034 | SLC9A9 |
| 1 | 126,300,000 | 126,450,000 | 1685 | 696 | -0.250818181 | SLC9A9 |
| 1 | 126,375,000 | 126,525,000 | 1686 | 578 | -0.723350085 | SLC9A9 |
| 1 | 126,450,000 | 126,600,000 | 1687 | 885 | 0.220759916 | SLC9A9 |
| 1 | 126,525,000 | 126,675,000 | 1688 | 989 | 0.831714646 | SLC9A9 |
| 1 | 126,600,000 | 126,750,000 | 1689 | 936 | 0.608047488 | SLC9A9 |
| 1 | 126,675,000 | 126,825,000 | 1690 | 826 | -0.174172564 | SLC9A9 |
| 1 | 126,750,000 | 126,900,000 | 1691 | 819 | 0.163464622 | CHST2 |
| 1 | 126,825,000 | 126,975,000 | 1692 | 705 | 0.722383816 | CHST2,U2SURP |
| 1 | 126,900,000 | 127,050,000 | 1693 | 370 | 0.877964983 | PAQR9,U2SURP |
| 1 | 126,975,000 | 127,125,000 | 1694 | 472 | 0.761092466 | PAQR9,U2SURP |
| 1 | 127,050,000 | 127,200,000 | 1695 | 700 | 0.836091115 | PCOLCE2,ENSBTAG00000038111 |
| 1 | 127,125,000 | 127,275,000 | 1696 | 590 | 0.537793818 | PCOLCE2,TRPC1,ENSBTAG00000038111 |
| 1 | 127,200,000 | 127,350,000 | 1697 | 359 | -0.038715342 | PCOLCE2,PLS1,TRPC1 |
| 1 | 127,275,000 | 127,425,000 | 1698 | 565 | 1.317834815 | PLS1,TRPC1 |
| 1 | 127,350,000 | 127,500,000 | 1699 | 639 | 1.41664973 | ATR,PLS1 |
| 1 | 127,425,000 | 127,575,000 | 1700 | 397 | 1.213491497 | ATR |
| 1 | 127,500,000 | 127,650,000 | 1701 | 298 | 0.876405274 | ATR,XRN1 |
| 1 | 127,575,000 | 127,725,000 | 1702 | 270 | 0.962979176 | ATR,XRN1 |
| 1 | 127,650,000 | 127,800,000 | 1703 | 340 | 1.128942435 | GK5,XRN1 |
| 1 | 127,725,000 | 127,875,000 | 1704 | 578 | 0.611780246 | GK5 |
| 1 | 127,800,000 | 127,950,000 | 1705 | 622 | 0.398571626 | GK5 |
| 1 | 127,875,000 | 128,025,000 | 1706 | 514 | 0.713768769 | TFDP2 |
| 1 | 127,950,000 | 128,100,000 | 1707 | 642 | 0.941083146 | ATP1B3,TFDP2,ENSBTAG00000019007 |
| 1 | 128,025,000 | 128,175,000 | 1708 | 635 | 0.833505676 | ATP1B3,GRK7,TFDP2,ENSBTAG00000019007 |
| 1 | 128,100,000 | 128,250,000 | 1709 | 851 | 0.623307609 | GRK7,RNF7 |
| 1 | 128,175,000 | 128,325,000 | 1710 | 1137 | -0.182321586 | GRK7,RNF7 |
| 1 | 128,250,000 | 128,400,000 | 1711 | 819 | -0.808962976 | RASA2 |
| 1 | 128,325,000 | 128,475,000 | 1712 | 675 | -0.107246996 | RASA2 |
| 1 | 128,400,000 | 128,550,000 | 1713 | 1056 | -0.273742145 | RASA2,ZBTB38 |
| 1 | 128,475,000 | 128,625,000 | 1714 | 1009 | -0.439240459 | ZBTB38 |
| 1 | 128,550,000 | 128,700,000 | 1715 | 683 | -0.378024434 | PXYLP1 |
| 1 | 128,625,000 | 128,775,000 | 1716 | 702 | 0.029606953 | PXYLP1 |
| 1 | 128,700,000 | 128,850,000 | 1717 | 652 | 0.221448695 | PXYLP1,SPSB4 |
| 1 | 128,775,000 | 128,925,000 | 1718 | 661 | 0.589220704 | SPSB4 |
| 1 | 128,850,000 | 129,000,000 | 1719 | 864 | 0.418314027 | SPSB4 |
| 1 | 128,925,000 | 129,075,000 | 1720 | 817 | 0.354916343 | SLC25A36 |
| 1 | 129,000,000 | 129,150,000 | 1721 | 1114 | 0.57703633 | SLC25A36 |
| 1 | 129,075,000 | 129,225,000 | 1722 | 1512 | 0.758921923 | |
| 1 | 129,150,000 | 129,300,000 | 1723 | 1404 | 0.67359391 | TRIM42 |
| 1 | 129,225,000 | 129,375,000 | 1724 | 1614 | 0.021937537 | TRIM42 |
| 1 | 129,300,000 | 129,450,000 | 1725 | 1552 | -0.026538986 | CLSTN2 |
| 1 | 129,375,000 | 129,525,000 | 1726 | 1196 | 0.248624782 | CLSTN2 |
| 1 | 129,450,000 | 129,600,000 | 1727 | 884 | -0.082743828 | CLSTN2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 1 | 129,525,000 | 129,675,000 | 1728 | 832 | 0.026542429 | CLSTN2 |
| 1 | 129,600,000 | 129,750,000 | 1729 | 1054 | -0.860896987 | |
| 1 | 129,675,000 | 129,825,000 | 1730 | 1267 | -0.408123251 | |
| 1 | 129,750,000 | 129,900,000 | 1731 | 1405 | 0.928604419 | |
| 1 | 129,825,000 | 129,975,000 | 1732 | 1286 | 1.035406183 | |
| 1 | 129,900,000 | 130,050,000 | 1733 | 1097 | 0.863369908 | |
| 1 | 129,975,000 | 130,125,000 | 1734 | 673 | 0.866166447 | |
| 1 | 130,050,000 | 130,200,000 | 1735 | 446 | 0.638051861 | |
| 1 | 130,125,000 | 130,275,000 | 1736 | 368 | 0.499901743 | |
| 1 | 130,200,000 | 130,350,000 | 1737 | 637 | 1.300660992 | |
| 1 | 130,275,000 | 130,425,000 | 1738 | 1189 | 1.18030392 | |
| 1 | 130,350,000 | 130,500,000 | 1739 | 1157 | 0.926129271 | NMNAT3 |
| 1 | 130,425,000 | 130,575,000 | 1740 | 778 | 0.627485524 | KPNA6,NMNAT3 |
| 1 | 130,500,000 | 130,650,000 | 1741 | 755 | -0.177459084 | KPNA6,NMNAT3,RBP1 |
| 1 | 130,575,000 | 130,725,000 | 1742 | 781 | -0.685771515 | KPNA6,RBP1,RBP2,TXLNA |
| 1 | 130,650,000 | 130,800,000 | 1743 | 554 | -0.494231253 | COPB2,MRPS22,RBP2,TXLNA |
| 1 | 130,725,000 | 130,875,000 | 1744 | 474 | 0.19600269 | COPB2,MRPS22 |
| 1 | 130,800,000 | 130,950,000 | 1745 | 325 | 0.383158213 | COPB2 |
| 1 | 130,875,000 | 131,025,000 | 1746 | 233 | -0.925771979 | |
| 1 | 130,950,000 | 131,100,000 | 1747 | 483 | -1.106358559 | ENSBTAG00000046040 |
| 1 | 131,025,000 | 131,175,000 | 1748 | 681 | -0.040525909 | ENSBTAG00000045637,ENSBTAG00000046040,ENSBTAG00000046738 |
| 1 | 131,100,000 | 131,250,000 | 1749 | 726 | -0.581226479 | FOXL2,ENSBTAG00000045637,ENSBTAG00000046738 |
| 1 | 131,175,000 | 131,325,000 | 1750 | 675 | -1.461970677 | FOXL2 |
| 1 | 131,250,000 | 131,400,000 | 1751 | 511 | -0.951608482 | |
| 1 | 131,325,000 | 131,475,000 | 1752 | 440 | -0.305819102 | PIK3CB |
| 1 | 131,400,000 | 131,550,000 | 1753 | 555 | -0.365776883 | FAIM,PIK3CB |
| 1 | 131,475,000 | 131,625,000 | 1754 | 614 | 0.709411008 | CEP70,FAIM,PIK3CB |
| 1 | 131,550,000 | 131,700,000 | 1755 | 541 | 1.519675682 | CEP70,ESYT3,FAIM |
| 1 | 131,625,000 | 131,775,000 | 1756 | 672 | 0.627922537 | CEP70,ESYT3,MRAS |
| 1 | 131,700,000 | 131,850,000 | 1757 | 832 | -1.803545364 | ESYT3,MRAS |
| 1 | 131,775,000 | 131,925,000 | 1758 | 643 | -1.680561172 | ARMC8,MRAS,NME9 |
| 1 | 131,850,000 | 132,000,000 | 1759 | 329 | 0.346053254 | ARMC8,NME9 |
| 1 | 131,925,000 | 132,075,000 | 1760 | 497 | -0.526465367 | A4GNT,ARMC8,DBR1 |
| 1 | 132,000,000 | 132,150,000 | 1761 | 970 | 0.022533977 | A4GNT,DBR1,DZIP1L |
| 1 | 132,075,000 | 132,225,000 | 1762 | 966 | 0.520062107 | CLDN18,DZIP1L |
| 1 | 132,150,000 | 132,300,000 | 1763 | 667 | 0.507556516 | CLDN18 |
| 1 | 132,225,000 | 132,375,000 | 1764 | 649 | -0.545970428 | |
| 1 | 132,300,000 | 132,450,000 | 1765 | 522 | -1.579231818 | |
| 1 | 132,375,000 | 132,525,000 | 1766 | 551 | 0.088214612 | |
| 1 | 132,450,000 | 132,600,000 | 1767 | 875 | 0.556816776 | |
| 1 | 132,525,000 | 132,675,000 | 1768 | 1101 | -1.169642163 | |
| 1 | 132,600,000 | 132,750,000 | 1769 | 1273 | -2.194758139 | |
| 1 | 132,675,000 | 132,825,000 | 1770 | 1179 | -1.442492518 | |
| 1 | 132,750,000 | 132,900,000 | 1771 | 1245 | -0.059498104 | |
| 1 | 132,825,000 | 132,975,000 | 1772 | 1279 | -0.534916688 | |
| 1 | 132,900,000 | 133,050,000 | 1773 | 984 | -0.98251173 | |
| 1 | 132,975,000 | 133,125,000 | 1774 | 739 | 0.256163999 | |
| 1 | 133,050,000 | 133,200,000 | 1775 | 751 | 0.571773921 | |
| 1 | 133,125,000 | 133,275,000 | 1776 | 1084 | 0.607067397 | IL20RB,ENSBTAG00000046781 |
| 1 | 133,200,000 | 133,350,000 | 1777 | 1041 | 0.865885924 | IL20RB,NCK1,ENSBTAG00000046781 |
| 1 | 133,275,000 | 133,425,000 | 1778 | 544 | 1.19028878 | IL20RB,NCK1,TMEM22 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------------|
| 1 | 133,350,000 | 133,500,000 | 1779 | 457 | 0.058385083 | NCK1,TMEM22,ENSBTAG00000048305 |
| 1 | 133,425,000 | 133,575,000 | 1780 | 439 | -1.129916487 | TMEM22,ENSBTAG00000048305 |
| 1 | 133,500,000 | 133,650,000 | 1781 | 315 | -1.255126415 | |
| 1 | 133,575,000 | 133,725,000 | 1782 | 384 | -0.876935398 | PFDN4,STAG1 |
| 1 | 133,650,000 | 133,800,000 | 1783 | 397 | -0.43664595 | PFDN4,STAG1 |
| 1 | 133,725,000 | 133,875,000 | 1784 | 362 | -0.290791534 | STAG1 |
| 1 | 133,800,000 | 133,950,000 | 1785 | 350 | -0.699222151 | STAG1 |
| 1 | 133,875,000 | 134,025,000 | 1786 | 321 | -0.648149744 | STAG1 |
| 1 | 133,950,000 | 134,100,000 | 1787 | 428 | -0.127393391 | PCCB,STAG1 |
| 1 | 134,025,000 | 134,175,000 | 1788 | 483 | -0.780835167 | PCCB,STAG1 |
| 1 | 134,100,000 | 134,250,000 | 1789 | 343 | -1.139781846 | MSL2,PCCB,PPP2R3A |
| 1 | 134,175,000 | 134,325,000 | 1790 | 305 | -0.00587335 | MSL2,PPP2R3A |
| 1 | 134,250,000 | 134,400,000 | 1791 | 354 | 0.560837873 | PPP2R3A |
| 1 | 134,325,000 | 134,475,000 | 1792 | 477 | 0.9592624 | PPP2R3A |
| 1 | 134,400,000 | 134,550,000 | 1793 | 509 | 0.77047068 | |
| 1 | 134,475,000 | 134,625,000 | 1794 | 669 | 0.244203369 | |
| 1 | 134,550,000 | 134,700,000 | 1795 | 642 | 0.093414334 | |
| 1 | 134,625,000 | 134,775,000 | 1796 | 563 | 0.35287372 | |
| 1 | 134,700,000 | 134,850,000 | 1797 | 1034 | 0.43866144 | |
| 1 | 134,775,000 | 134,925,000 | 1798 | 1028 | 0.474035836 | |
| 1 | 134,850,000 | 135,000,000 | 1799 | 729 | 0.040742061 | |
| 1 | 134,925,000 | 135,075,000 | 1800 | 1139 | -2.545970758 | |
| 1 | 135,000,000 | 135,150,000 | 1801 | 1326 | -1.932720778 | |
| 1 | 135,075,000 | 135,225,000 | 1802 | 993 | -0.583284816 | EPHB1 |
| 1 | 135,150,000 | 135,300,000 | 1803 | 841 | -0.005914272 | EPHB1 |
| 1 | 135,225,000 | 135,375,000 | 1804 | 1083 | 0.870788779 | EPHB1 |
| 1 | 135,300,000 | 135,450,000 | 1805 | 1248 | 0.318510008 | EPHB1 |
| 1 | 135,375,000 | 135,525,000 | 1806 | 1340 | -0.785842994 | EPHB1 |
| 1 | 135,450,000 | 135,600,000 | 1807 | 1493 | -0.099087193 | EPHB1 |
| 1 | 135,525,000 | 135,675,000 | 1808 | 1229 | 0.875611477 | |
| 1 | 135,600,000 | 135,750,000 | 1809 | 1129 | 1.221218805 | |
| 1 | 135,675,000 | 135,825,000 | 1810 | 909 | 0.997025062 | |
| 1 | 135,750,000 | 135,900,000 | 1811 | 645 | 0.022497178 | CEP63 |
| 1 | 135,825,000 | 135,975,000 | 1812 | 800 | 0.129154725 | ANAPC13,CEP63 |
| 1 | 135,900,000 | 136,050,000 | 1813 | 766 | 0.197994339 | ANAPC13,CEP63 |
| 1 | 135,975,000 | 136,125,000 | 1814 | 672 | 0.290315084 | AMOTL2 |
| 1 | 136,050,000 | 136,200,000 | 1815 | 806 | -0.657993958 | AMOTL2 |
| 1 | 136,125,000 | 136,275,000 | 1816 | 755 | -1.593917891 | RYK |
| 1 | 136,200,000 | 136,350,000 | 1817 | 520 | -0.788046745 | RYK |
| 1 | 136,275,000 | 136,425,000 | 1818 | 776 | 1.502513123 | RYK |
| 1 | 136,350,000 | 136,500,000 | 1819 | 802 | 1.418555368 | SLCO2A1 |
| 1 | 136,425,000 | 136,575,000 | 1820 | 652 | 0.064502539 | RAB6B,SLCO2A1 |
| 1 | 136,500,000 | 136,650,000 | 1821 | 1321 | 0.75963383 | RAB6B,SLCO2A1,SRPRB |
| 1 | 136,575,000 | 136,725,000 | 1822 | 1388 | 0.563247324 | RAB6B,SRPRB,TF |
| 1 | 136,650,000 | 136,800,000 | 1823 | 1411 | 0.097619723 | SRPRB,TF,ENSBTAG00000023411 |
| 1 | 136,725,000 | 136,875,000 | 1824 | 1387 | 0.01155402 | TOPBP1,ENSBTAG00000023411 |
| 1 | 136,800,000 | 136,950,000 | 1825 | 980 | -0.249812319 | TOPBP1,ENSBTAG00000035556 |
| 1 | 136,875,000 | 137,025,000 | 1826 | 879 | -1.85021025 | TOPBP1,ENSBTAG00000035556 |
| 1 | 136,950,000 | 137,100,000 | 1827 | 842 | -6.346970137 | BFSP2,ENSBTAG00000035556 |
| 1 | 137,025,000 | 137,175,000 | 1828 | 1065 | -5.30013118 | BFSP2,TMEM108 |
| 1 | 137,100,000 | 137,250,000 | 1829 | 1081 | -1.644118511 | BFSP2,TMEM108 |
| 1 | 137,175,000 | 137,325,000 | 1830 | 835 | 0.371395685 | |
| 1 | 137,250,000 | 137,400,000 | 1831 | 814 | 0.879984022 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 137,325,000 | 137,475,000 | 1832 | 1114 | 0.398653864 | |
| 1 | 137,400,000 | 137,550,000 | 1833 | 916 | -0.255475613 | |
| 1 | 137,475,000 | 137,625,000 | 1834 | 583 | -0.081368394 | |
| 1 | 137,550,000 | 137,700,000 | 1835 | 668 | 0.541993163 | |
| 1 | 137,625,000 | 137,775,000 | 1836 | 1150 | -0.487141584 | |
| 1 | 137,700,000 | 137,850,000 | 1837 | 1391 | -0.569319226 | ENSBTAG00000035654 |
| 1 | 137,775,000 | 137,925,000 | 1838 | 1406 | 0.419901619 | NPHP3-ACAD11,ENSBTAG00000035654 |
| 1 | 137,850,000 | 138,000,000 | 1839 | 1184 | 1.066631025 | ACAD11,NPHP3-ACAD11,UBA5 |
| 1 | 137,925,000 | 138,075,000 | 1840 | 774 | 0.856340579 | ACAD11,ACKR4,NPHP3-ACAD11,UBA5 |
| 1 | 138,000,000 | 138,150,000 | 1841 | 995 | 0.923458293 | ACAD11,ACKR4,DNAJC13 |
| 1 | 138,075,000 | 138,225,000 | 1842 | 1707 | 0.912229701 | ACAD11,DNAJC13 |
| 1 | 138,150,000 | 138,300,000 | 1843 | 1738 | 0.708703563 | DNAJC13 |
| 1 | 138,225,000 | 138,375,000 | 1844 | 1353 | 0.66504403 | ACPP,DNAJC13 |
| 1 | 138,300,000 | 138,450,000 | 1845 | 1173 | 0.646789214 | ACPP,DNAJC13 |
| 1 | 138,375,000 | 138,525,000 | 1846 | 1047 | -0.265361534 | ACPP,KCNH8 |
| 1 | 138,450,000 | 138,600,000 | 1847 | 1171 | -0.606605279 | KCNH8 |
| 1 | 138,525,000 | 138,675,000 | 1848 | 1440 | -1.014824812 | KCNH8 |
| 1 | 138,600,000 | 138,750,000 | 1849 | 1708 | 0.110186167 | KCNH8 |
| 1 | 138,675,000 | 138,825,000 | 1850 | 1712 | 0.808412197 | KCNH8 |
| 1 | 138,750,000 | 138,900,000 | 1851 | 1512 | -0.020967808 | |
| 1 | 138,825,000 | 138,975,000 | 1852 | 1072 | -0.059834199 | |
| 1 | 138,900,000 | 139,050,000 | 1853 | 747 | -0.037977002 | |
| 1 | 138,975,000 | 139,125,000 | 1854 | 545 | -0.361301337 | |
| 1 | 139,050,000 | 139,200,000 | 1855 | 455 | 0.959377705 | |
| 1 | 139,125,000 | 139,275,000 | 1856 | 857 | 0.946636871 | |
| 1 | 139,200,000 | 139,350,000 | 1857 | 1206 | 0.653902277 | |
| 1 | 139,275,000 | 139,425,000 | 1858 | 820 | 0.129262031 | |
| 1 | 139,350,000 | 139,500,000 | 1859 | 516 | -1.88551185 | |
| 1 | 139,425,000 | 139,575,000 | 1860 | 837 | -1.238805435 | |
| 1 | 139,500,000 | 139,650,000 | 1861 | 994 | 0.024176314 | |
| 1 | 139,575,000 | 139,725,000 | 1862 | 1038 | 0.633175241 | CPNE4 |
| 1 | 139,650,000 | 139,800,000 | 1863 | 1183 | 0.367439896 | CPNE4 |
| 1 | 139,725,000 | 139,875,000 | 1864 | 908 | 0.18231412 | CPNE4 |
| 1 | 139,800,000 | 139,950,000 | 1865 | 782 | 0.615637225 | CPNE4,MRPL3 |
| 1 | 139,875,000 | 140,025,000 | 1866 | 1102 | 1.160744409 | MRPL3 |
| 1 | 139,950,000 | 140,100,000 | 1867 | 1094 | 1.00708018 | NEK11,NUDT16 |
| 1 | 140,025,000 | 140,175,000 | 1868 | 748 | 0.386940624 | NEK11,NUDT16 |
| 1 | 140,100,000 | 140,250,000 | 1869 | 570 | -0.640166795 | NEK11 |
| 1 | 140,175,000 | 140,325,000 | 1870 | 757 | -0.316601401 | NEK11 |
| 1 | 140,250,000 | 140,400,000 | 1871 | 788 | 0.500790782 | ASTE1,ATP2C1,NEK11 |
| 1 | 140,325,000 | 140,475,000 | 1872 | 646 | 0.86957996 | ASTE1,ATP2C1,NEK11,ENSBTAG00000035701 |
| 1 | 140,400,000 | 140,550,000 | 1873 | 723 | 0.75091715 | ATP2C1,ENSBTAG00000035701 |
| 1 | 140,475,000 | 140,625,000 | 1874 | 1038 | -0.141944791 | ATP2C1,RPL38 |
| 1 | 140,550,000 | 140,700,000 | 1875 | 1299 | -1.559835093 | RPL38 |
| 1 | 140,625,000 | 140,775,000 | 1876 | 863 | -2.651739125 | BRWD1,PSMG1 |
| 1 | 140,700,000 | 140,850,000 | 1877 | 317 | -2.187258363 | BRWD1,PSMG1 |
| 1 | 140,775,000 | 140,925,000 | 1878 | 283 | 0.878137834 | BRWD1,HMGN1,SETMAR |
| 1 | 140,850,000 | 141,000,000 | 1879 | 411 | 1.079866063 | BRWD1,HMGN1,LCA5L,SETMAR,WRB |
| 1 | 140,925,000 | 141,075,000 | 1880 | 382 | 1.106497503 | LCA5L,SETMAR,SH3BGR,WRB |
| 1 | 141,000,000 | 141,150,000 | 1881 | 708 | 1.191160758 | LCA5L,SH3BGR |
| 1 | 141,075,000 | 141,225,000 | 1882 | 924 | 0.921587783 | SH3BGR |
| 1 | 141,150,000 | 141,300,000 | 1883 | 824 | 0.582984804 | B3GALT5 |
| 1 | 141,225,000 | 141,375,000 | 1884 | 979 | 0.761728459 | B3GALT5,IGSF5 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 1 | 141,300,000 | 141,450,000 | 1885 | 1401 | 1.064164006 | IGSF5 |
| 1 | 141,375,000 | 141,525,000 | 1886 | 1315 | 1.17766506 | IGSF5 |
| 1 | 141,450,000 | 141,600,000 | 1887 | 904 | 0.998822777 | |
| 1 | 141,525,000 | 141,675,000 | 1888 | 791 | 0.144250477 | DSCAM |
| 1 | 141,600,000 | 141,750,000 | 1889 | 885 | -1.10582465 | DSCAM |
| 1 | 141,675,000 | 141,825,000 | 1890 | 1077 | -0.541831947 | DSCAM |
| 1 | 141,750,000 | 141,900,000 | 1891 | 999 | -1.519699012 | DSCAM |
| 1 | 141,825,000 | 141,975,000 | 1892 | 1147 | -2.645638858 | DSCAM |
| 1 | 141,900,000 | 142,050,000 | 1893 | 1168 | -1.524241473 | DSCAM |
| 1 | 141,975,000 | 142,125,000 | 1894 | 1037 | -0.976594132 | DSCAM |
| 1 | 142,050,000 | 142,200,000 | 1895 | 1337 | 0.177407001 | |
| 1 | 142,125,000 | 142,275,000 | 1896 | 1377 | 0.829067508 | |
| 1 | 142,200,000 | 142,350,000 | 1897 | 1469 | 1.016404046 | |
| 1 | 142,275,000 | 142,425,000 | 1898 | 1279 | 0.952887907 | |
| 1 | 142,350,000 | 142,500,000 | 1899 | 901 | 0.197166404 | |
| 1 | 142,425,000 | 142,575,000 | 1900 | 1126 | -0.220027535 | |
| 1 | 142,500,000 | 142,650,000 | 1901 | 959 | -0.296799819 | |
| 1 | 142,575,000 | 142,725,000 | 1902 | 618 | 0.249740915 | |
| 1 | 142,650,000 | 142,800,000 | 1903 | 498 | -0.662747711 | |
| 1 | 142,725,000 | 142,875,000 | 1904 | 537 | -0.994204236 | |
| 1 | 142,800,000 | 142,950,000 | 1905 | 514 | -0.506908217 | BACE2 |
| 1 | 142,875,000 | 143,025,000 | 1906 | 939 | -0.667080133 | BACE2 |
| 1 | 142,950,000 | 143,100,000 | 1907 | 1353 | -0.202788633 | BACE2,FAM3B |
| 1 | 143,025,000 | 143,175,000 | 1908 | 1343 | 0.454603801 | FAM3B,MX2 |
| 1 | 143,100,000 | 143,250,000 | 1909 | 1599 | 0.811535657 | FAM3B,MX1,MX2,TMPRSS2 |
| 1 | 143,175,000 | 143,325,000 | 1910 | 1361 | 0.704336232 | MX1,TMPRSS2 |
| 1 | 143,250,000 | 143,400,000 | 1911 | 1178 | -0.696346801 | ENSBTAG00000045771,ENSBTAG00000046015 |
| 1 | 143,325,000 | 143,475,000 | 1912 | 1490 | -1.020284206 | ENSBTAG00000045771,ENSBTAG00000046015 |
| 1 | 143,400,000 | 143,550,000 | 1913 | 1462 | -0.540823149 | RIPK4 |
| 1 | 143,475,000 | 143,625,000 | 1914 | 1181 | -1.631772746 | PRDM15,RIPK4 |
| 1 | 143,550,000 | 143,700,000 | 1915 | 1081 | -1.746627318 | C2CD2,PRDM15 |
| 1 | 143,625,000 | 143,775,000 | 1916 | 1110 | 0.48853886 | C2CD2,ZNF295 |
| 1 | 143,700,000 | 143,850,000 | 1917 | 1341 | 1.004433137 | C2CD2,UMODL1,ZNF295 |
| 1 | 143,775,000 | 143,925,000 | 1918 | 2154 | 0.777255664 | UMODL1 |
| 1 | 143,850,000 | 144,000,000 | 1919 | 2425 | 0.773516913 | ABCG1,UMODL1 |
| 1 | 143,925,000 | 144,075,000 | 1920 | 1976 | 0.844359984 | ABCG1,TFF3 |
| 1 | 144,000,000 | 144,150,000 | 1921 | 1104 | 0.636660486 | ABCG1,TFF3 |
| 1 | 144,075,000 | 144,225,000 | 1922 | 1460 | 0.938849348 | TFF1,TFF2,TMPRSS3 |
| 1 | 144,150,000 | 144,300,000 | 1923 | 1884 | 1.120259651 | TFF1,TFF2,TMPRSS3,UBASH3A |
| 1 | 144,225,000 | 144,375,000 | 1924 | 1516 | 0.468009415 | RSPH1,SLC37A1,TMPRSS3,UBASH3A |
| 1 | 144,300,000 | 144,450,000 | 1925 | 1905 | -0.481692273 | RSPH1,SLC37A1 |
| 1 | 144,375,000 | 144,525,000 | 1926 | 1779 | 0.006908347 | PDE9A,SLC37A1 |
| 1 | 144,450,000 | 144,600,000 | 1927 | 1370 | 0.362048042 | PDE9A |
| 1 | 144,525,000 | 144,675,000 | 1928 | 1285 | -0.546029493 | PDE9A,WDR4,ENSBTAG00000046859 |
| 1 | 144,600,000 | 144,750,000 | 1929 | 1268 | -0.089107751 | NDUFV3,PDE9A,WDR4,ENSBTAG00000046859 |
| 1 | 144,675,000 | 144,825,000 | 1930 | 1312 | 0.50480674 | NDUFV3,PKNOX1,WDR4,ENSBTAG00000000160 |
| 1 | 144,750,000 | 144,900,000 | 1931 | 1281 | 0.955220721 | CRYAA,PKNOX1,U2AF1,ENSBTAG00000000160 |
| 1 | 144,825,000 | 144,975,000 | 1932 | 1387 | -0.088618302 | CRYAA,U2AF1 |
| 1 | 144,900,000 | 145,050,000 | 1933 | 1267 | -0.229833475 | SUMO3 |
| 1 | 144,975,000 | 145,125,000 | 1934 | 639 | 0.714011392 | ITGB2,PTTG1IP,SUMO3 |
| 1 | 145,050,000 | 145,200,000 | 1935 | 949 | 0.375162432 | C1H21ORF70,ITGB2,PTTG1IP |
| 1 | 145,125,000 | 145,275,000 | 1936 | 1427 | -0.791351289 | C1H21ORF70,ITGB2 |
| 1 | 145,200,000 | 145,350,000 | 1937 | 779 | -1.160302894 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 1 | 145,275,000 | 145,425,000 | 1938 | 96 | 0.070770668 | |
| 1 | 145,350,000 | 145,500,000 | 1939 | 255 | 0.511952012 | |
| 1 | 145,425,000 | 145,575,000 | 1940 | 807 | 1.077733065 | ADARB1 |
| 1 | 145,500,000 | 145,650,000 | 1941 | 1038 | 0.433375825 | ADARB1,POFUT2 |
| 1 | 145,575,000 | 145,725,000 | 1942 | 1047 | -0.103707928 | POFUT2,ENSBTAG00000014880,ENSBTAG00000014882 |
| 1 | 145,650,000 | 145,800,000 | 1943 | 1008 | 0.687160817 | AIRE,PFKL,ENSBTAG00000014880,ENSBTAG00000014882 |
| 1 | 145,725,000 | 145,875,000 | 1944 | 1065 | 0.584442351 | AIRE,C1H21ORF2,PFKL,TRPM2 |
| 1 | 145,800,000 | 145,950,000 | 1945 | 1524 | 1.005556591 | C1H21ORF2,KRTAP10-8,LRRC3,TRPM2,TSPEAR,ENSBTAG00000037662 |
| 1 | 145,875,000 | 146,025,000 | 1946 | 1591 | 0.982923548 | KRTAP10-8,KRTAP12-2,LRRC3,TSPEAR,ENSBTAG00000030862,ENSBTAG00000037662 |
| 1 | 145,950,000 | 146,100,000 | 1947 | 1388 | 0.55647013 | KRTAP10-2,KRTAP12-2,TSPEAR,ENSBTAG00000011012,ENSBTAG00000030862 |
| 1 | 146,025,000 | 146,175,000 | 1948 | 1310 | 0.685423292 | KRTAP10-2,UBE2G2,ENSBTAG00000011012 |
| 1 | 146,100,000 | 146,250,000 | 1949 | 1159 | 1.02549977 | UBE2G2,ENSBTAG00000011437 |
| 1 | 146,175,000 | 146,325,000 | 1950 | 1455 | 0.98495581 | ENSBTAG00000011437 |
| 1 | 146,250,000 | 146,400,000 | 1951 | 1390 | 0.926259545 | HSF2BP |
| 1 | 146,325,000 | 146,475,000 | 1952 | 907 | 0.728921542 | HSF2BP,RRP1B |
| 1 | 146,400,000 | 146,550,000 | 1953 | 940 | -0.11034599 | CSTB,HSF2BP,PDXK,RRP1B |
| 1 | 146,475,000 | 146,625,000 | 1954 | 1134 | 0.05776621 | CSTB,PDXK,RRP1 |
| 1 | 146,550,000 | 146,700,000 | 1955 | 1213 | 0.560371098 | CSTB,RRP1 |
| 1 | 146,625,000 | 146,775,000 | 1956 | 1198 | 0.69301708 | AGPAT3 |
| 1 | 146,700,000 | 146,850,000 | 1957 | 873 | 0.841033186 | AGPAT3,ENSBTAG00000007100,ENSBTAG00000007105 |
| 1 | 146,775,000 | 146,925,000 | 1958 | 671 | -0.111227342 | ES1,ENSBTAG00000007100,ENSBTAG00000007105 |
| 1 | 146,850,000 | 147,000,000 | 1959 | 726 | -0.84245559 | COL18A1,ES1,ENSBTAG00000007105 |
| 1 | 146,925,000 | 147,075,000 | 1960 | 778 | -1.629179046 | COL18A1,SLC19A1 |
| 1 | 147,000,000 | 147,150,000 | 1961 | 910 | -1.209774657 | COL18A1,PCBP3,SLC19A1 |
| 1 | 147,075,000 | 147,225,000 | 1962 | 612 | -0.455254107 | PCBP3 |
| 1 | 147,150,000 | 147,300,000 | 1963 | 290 | 0.148032886 | PCBP3 |
| 1 | 147,225,000 | 147,375,000 | 1964 | 918 | 0.463098023 | PCBP3 |
| 1 | 147,300,000 | 147,450,000 | 1965 | 1404 | 0.616808963 | COL6A1,PCBP3 |
| 1 | 147,375,000 | 147,525,000 | 1966 | 1385 | 0.573958088 | COL6A1 |
| 1 | 147,450,000 | 147,600,000 | 1967 | 1193 | 0.585601055 | COL6A2,FTCD |
| 1 | 147,525,000 | 147,675,000 | 1968 | 867 | 0.39156927 | C1H21ORF56,COL6A2,FTCD,LSS,MCM3AP |
| 1 | 147,600,000 | 147,750,000 | 1969 | 940 | 0.566882954 | C1H21ORF56,C21orf58,LSS,MCM3AP,PCNT,YBEY |
| 1 | 147,675,000 | 147,825,000 | 1970 | 1192 | 1.13784985 | C21orf58,MCM3AP,PCNT,YBEY |
| 1 | 147,750,000 | 147,900,000 | 1971 | 1245 | 0.834140359 | DIP2A,PCNT |
| 1 | 147,825,000 | 147,975,000 | 1972 | 1337 | 0.455578263 | DIP2A,PCNT |
| 1 | 147,900,000 | 148,050,000 | 1973 | 1344 | 0.620413579 | DIP2A,S100B |
| 1 | 147,975,000 | 148,125,000 | 1974 | 1455 | 0.943288162 | DIP2A,HRMT1L1,S100B |
| 1 | 148,050,000 | 148,200,000 | 1975 | 1662 | 0.443320524 | HRMT1L1 |
| 1 | 148,125,000 | 148,275,000 | 1976 | 1159 | -0.34483708 | FBXO25 |
| 1 | 148,200,000 | 148,350,000 | 1977 | 529 | 0.230105011 | FBXO25,TDRP |
| 1 | 148,275,000 | 148,425,000 | 1978 | 330 | 0.615738609 | FBXO25,TDRP |
| 1 | 148,350,000 | 148,500,000 | 1979 | 557 | 0.966905201 | |
| 1 | 148,425,000 | 148,575,000 | 1980 | 882 | 0.853793638 | ENSBTAG00000046447 |
| 1 | 148,500,000 | 148,650,000 | 1981 | 864 | 0.636221318 | ENSBTAG00000046447 |
| 1 | 148,575,000 | 148,725,000 | 1982 | 535 | 0.849083567 | RUNX1,ENSBTAG00000046447 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 1 | 148,650,000 | 148,800,000 | 1983 | 638 | 0.501435057 | RUNX1 |
| 1 | 148,725,000 | 148,875,000 | 1984 | 898 | 0.024150073 | RUNX1 |
| 1 | 148,800,000 | 148,950,000 | 1985 | 1002 | -0.393154237 | |
| 1 | 148,875,000 | 149,025,000 | 1986 | 1108 | -0.466146357 | |
| 1 | 148,950,000 | 149,100,000 | 1987 | 1206 | -0.111435236 | |
| 1 | 149,025,000 | 149,175,000 | 1988 | 1010 | 0.342550208 | |
| 1 | 149,100,000 | 149,250,000 | 1989 | 861 | 0.511944038 | |
| 1 | 149,175,000 | 149,325,000 | 1990 | 985 | 0.612592239 | |
| 1 | 149,250,000 | 149,400,000 | 1991 | 1096 | 0.502429207 | |
| 1 | 149,325,000 | 149,475,000 | 1992 | 1294 | 0.923219768 | |
| 1 | 149,400,000 | 149,550,000 | 1993 | 953 | 1.210021937 | |
| 1 | 149,475,000 | 149,625,000 | 1994 | 946 | 0.371746643 | |
| 1 | 149,550,000 | 149,700,000 | 1995 | 1093 | 0.330436198 | |
| 1 | 149,625,000 | 149,775,000 | 1996 | 1069 | 0.845356727 | |
| 1 | 149,700,000 | 149,850,000 | 1997 | 1335 | 0.809183508 | |
| 1 | 149,775,000 | 149,925,000 | 1998 | 1023 | 0.680716002 | |
| 1 | 149,850,000 | 150,000,000 | 1999 | 931 | 0.776114089 | |
| 1 | 149,925,000 | 150,075,000 | 2000 | 1074 | 0.904746963 | SETD4,ENSBTAG00000023384 |
| 1 | 150,000,000 | 150,150,000 | 2001 | 724 | 0.762621805 | CBR3,MGC127133,SETD4,ENSBTAG00000023384 |
| 1 | 150,075,000 | 150,225,000 | 2002 | 977 | 0.861636425 | CBR3,DOPEY2,MGC127133 |
| 1 | 150,150,000 | 150,300,000 | 2003 | 1446 | 1.115425612 | CBR3,DOPEY2 |
| 1 | 150,225,000 | 150,375,000 | 2004 | 1005 | 1.117617542 | CHAF1B,DOPEY2,MORC3 |
| 1 | 150,300,000 | 150,450,000 | 2005 | 880 | 0.964404323 | CHAF1B,CLDN14,MORC3 |
| 1 | 150,375,000 | 150,525,000 | 2006 | 1240 | 1.055025123 | CHAF1B,CLDN14 |
| 1 | 150,450,000 | 150,600,000 | 2007 | 1334 | 1.117263424 | |
| 1 | 150,525,000 | 150,675,000 | 2008 | 1372 | 0.812195166 | |
| 1 | 150,600,000 | 150,750,000 | 2009 | 1154 | 0.503149332 | HLCS,SIM2 |
| 1 | 150,675,000 | 150,825,000 | 2010 | 968 | 0.627182137 | HLCS,SIM2 |
| 1 | 150,750,000 | 150,900,000 | 2011 | 995 | 0.647169014 | HLCS |
| 1 | 150,825,000 | 150,975,000 | 2012 | 863 | -0.297260272 | HLCS,RIPPLY3 |
| 1 | 150,900,000 | 151,050,000 | 2013 | 803 | -0.746306155 | HLCS,PIGP,RIPPLY3,TTC3 |
| 1 | 150,975,000 | 151,125,000 | 2014 | 871 | 0.063050645 | PIGP,TTC3 |
| 1 | 151,050,000 | 151,200,000 | 2015 | 1011 | 0.687804297 | DSCR3,TTC3 |
| 1 | 151,125,000 | 151,275,000 | 2016 | 758 | 0.675969192 | DSCR3,TTC3 |
| 1 | 151,200,000 | 151,350,000 | 2017 | 400 | -0.85815154 | |
| 1 | 151,275,000 | 151,425,000 | 2018 | 502 | -0.973547977 | DYRK1A |
| 1 | 151,350,000 | 151,500,000 | 2019 | 667 | -0.77568048 | DYRK1A |
| 1 | 151,425,000 | 151,575,000 | 2020 | 749 | -0.432232085 | |
| 1 | 151,500,000 | 151,650,000 | 2021 | 835 | -0.540826006 | KCNJ6 |
| 1 | 151,575,000 | 151,725,000 | 2022 | 968 | 0.017301882 | KCNJ6 |
| 1 | 151,650,000 | 151,800,000 | 2023 | 947 | 0.103448679 | |
| 1 | 151,725,000 | 151,875,000 | 2024 | 838 | -0.829320022 | |
| 1 | 151,800,000 | 151,950,000 | 2025 | 788 | -0.277427135 | |
| 1 | 151,875,000 | 152,025,000 | 2026 | 753 | 0.683545926 | |
| 1 | 151,950,000 | 152,100,000 | 2027 | 727 | 0.13607239 | |
| 1 | 152,025,000 | 152,175,000 | 2028 | 833 | -0.071239863 | |
| 1 | 152,100,000 | 152,250,000 | 2029 | 890 | 0.217860012 | |
| 1 | 152,175,000 | 152,325,000 | 2030 | 741 | 0.043534024 | KCNJ15 |
| 1 | 152,250,000 | 152,400,000 | 2031 | 782 | 0.245416037 | ERG,KCNJ15 |
| 1 | 152,325,000 | 152,475,000 | 2032 | 759 | -0.08778977 | ERG |
| 1 | 152,400,000 | 152,550,000 | 2033 | 750 | -0.680047002 | ERG |
| 1 | 152,475,000 | 152,625,000 | 2034 | 981 | -0.097563563 | ERG |
| 1 | 152,550,000 | 152,700,000 | 2035 | 1096 | 0.323025946 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-------------------------|
| 1 | 152,625,000 | 152,775,000 | 2036 | 933 | -0.20851052 | |
| 1 | 152,700,000 | 152,850,000 | 2037 | 818 | 0.015781573 | |
| 1 | 152,775,000 | 152,925,000 | 2038 | 994 | 0.858918677 | ETS2 |
| 1 | 152,850,000 | 153,000,000 | 2039 | 906 | 1.145177916 | ETS2 |
| 1 | 152,925,000 | 153,075,000 | 2040 | 774 | 0.881578886 | |
| 1 | 153,000,000 | 153,150,000 | 2041 | 799 | 0.54768698 | |
| 1 | 153,075,000 | 153,225,000 | 2042 | 776 | -0.199018434 | |
| 1 | 153,150,000 | 153,300,000 | 2043 | 679 | -0.318583965 | PIK3R4 |
| 1 | 153,225,000 | 153,375,000 | 2044 | 601 | 0.235079891 | COL6A6,PIK3R4 |
| 1 | 153,300,000 | 153,450,000 | 2045 | 1087 | 0.816620803 | COL6A6,PIK3R4 |
| 1 | 153,375,000 | 153,525,000 | 2046 | 1619 | 1.013807293 | COL6A6 |
| 1 | 153,450,000 | 153,600,000 | 2047 | 1375 | 1.192059743 | ENSBTAG00000021906 |
| 1 | 153,525,000 | 153,675,000 | 2048 | 1216 | 1.084888931 | ENSBTAG00000021906 |
| 1 | 153,600,000 | 153,750,000 | 2049 | 1271 | 0.960187694 | |
| 1 | 153,675,000 | 153,825,000 | 2050 | 1478 | 0.391631959 | ENSBTAG00000021139 |
| 1 | 153,750,000 | 153,900,000 | 2051 | 1609 | 0.104534698 | ENSBTAG00000021139 |
| 1 | 153,825,000 | 153,975,000 | 2052 | 1704 | 0.486418581 | CAPN7 |
| 1 | 153,900,000 | 154,050,000 | 2053 | 1893 | 1.013793488 | CAPN7,SH3BP5 |
| 1 | 153,975,000 | 154,125,000 | 2054 | 1861 | 1.08747392 | CAPN7,SH3BP5 |
| 1 | 154,050,000 | 154,200,000 | 2055 | 1582 | 0.899304121 | EAF1,METTL6,SH3BP5,UBL5 |
| 1 | 154,125,000 | 154,275,000 | 2056 | 1317 | 0.934901115 | COLQ,EAF1,METTL6,UBL5 |
| 1 | 154,200,000 | 154,350,000 | 2057 | 1545 | 0.949718184 | COLQ,EAF1,HACL1 |
| 1 | 154,275,000 | 154,425,000 | 2058 | 1408 | 0.907679704 | BTD,COLQ,HACL1 |
| 1 | 154,350,000 | 154,500,000 | 2059 | 901 | 0.718647001 | ANKRD28,BTD,HACL1 |
| 1 | 154,425,000 | 154,575,000 | 2060 | 814 | 0.246986742 | ANKRD28 |
| 1 | 154,500,000 | 154,650,000 | 2061 | 1195 | 0.617473168 | ANKRD28 |
| 1 | 154,575,000 | 154,725,000 | 2062 | 1278 | 0.581135927 | |
| 1 | 154,650,000 | 154,800,000 | 2063 | 1342 | 0.399769395 | |
| 1 | 154,725,000 | 154,875,000 | 2064 | 1702 | 0.037052042 | |
| 1 | 154,800,000 | 154,950,000 | 2065 | 1662 | -0.939647585 | GALNT15 |
| 1 | 154,875,000 | 155,025,000 | 2066 | 1661 | -0.499416793 | DPH3,GALNT15,OXNAD1 |
| 1 | 154,950,000 | 155,100,000 | 2067 | 1618 | 0.471122786 | DPH3,GALNT15,OXNAD1 |
| 1 | 155,025,000 | 155,175,000 | 2068 | 1452 | 0.114364083 | OXNAD1 |
| 1 | 155,100,000 | 155,250,000 | 2069 | 1408 | -0.844695485 | OXNAD1,RFTN1 |
| 1 | 155,175,000 | 155,325,000 | 2070 | 1573 | -0.808916138 | RFTN1 |
| 1 | 155,250,000 | 155,400,000 | 2071 | 1699 | -0.050963161 | DAZL |
| 1 | 155,325,000 | 155,475,000 | 2072 | 1465 | 0.076391334 | DAZL |
| 1 | 155,400,000 | 155,550,000 | 2073 | 1297 | -1.040705236 | DAZL |
| 1 | 155,475,000 | 155,625,000 | 2074 | 1142 | -1.362968457 | PLCL2 |
| 1 | 155,550,000 | 155,700,000 | 2075 | 914 | -0.167250126 | PLCL2 |
| 1 | 155,625,000 | 155,775,000 | 2076 | 1025 | 0.234359283 | PLCL2 |
| 1 | 155,700,000 | 155,850,000 | 2077 | 1347 | 0.074392411 | PLCL2,TBC1D5 |
| 1 | 155,775,000 | 155,925,000 | 2078 | 1416 | -0.385550598 | PLCL2,TBC1D5 |
| 1 | 155,850,000 | 156,000,000 | 2079 | 1304 | -0.588777554 | TBC1D5 |
| 1 | 155,925,000 | 156,075,000 | 2080 | 1324 | 0.570303921 | TBC1D5 |
| 1 | 156,000,000 | 156,150,000 | 2081 | 1186 | 0.754542359 | TBC1D5 |
| 1 | 156,075,000 | 156,225,000 | 2082 | 905 | 0.69549298 | TBC1D5 |
| 1 | 156,150,000 | 156,300,000 | 2083 | 993 | -0.058477773 | TBC1D5 |
| 1 | 156,225,000 | 156,375,000 | 2084 | 1132 | 0.305487109 | |
| 1 | 156,300,000 | 156,450,000 | 2085 | 992 | 0.872307908 | |
| 1 | 156,375,000 | 156,525,000 | 2086 | 1124 | 1.213778251 | |
| 1 | 156,450,000 | 156,600,000 | 2087 | 1134 | 1.094971492 | |
| 1 | 156,525,000 | 156,675,000 | 2088 | 1190 | 1.134187372 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-----------------------------|
| 1 | 156,600,000 | 156,750,000 | 2089 | 1310 | 1.264095596 | |
| 1 | 156,675,000 | 156,825,000 | 2090 | 1148 | 1.12468972 | |
| 1 | 156,750,000 | 156,900,000 | 2091 | 1286 | 0.558185602 | |
| 1 | 156,825,000 | 156,975,000 | 2092 | 1238 | 0.083046344 | |
| 1 | 156,900,000 | 157,050,000 | 2093 | 1484 | -0.640183423 | |
| 1 | 156,975,000 | 157,125,000 | 2094 | 1520 | -0.311334254 | |
| 1 | 157,050,000 | 157,200,000 | 2095 | 1266 | 0.318213486 | SATB1 |
| 1 | 157,125,000 | 157,275,000 | 2096 | 1157 | -0.138113058 | SATB1 |
| 1 | 157,200,000 | 157,350,000 | 2097 | 1103 | -0.283966162 | SATB1 |
| 1 | 157,275,000 | 157,425,000 | 2098 | 1432 | -0.059771484 | |
| 1 | 157,350,000 | 157,500,000 | 2099 | 1422 | -0.037988551 | |
| 1 | 157,425,000 | 157,575,000 | 2100 | 1414 | 0.566707158 | |
| 1 | 157,500,000 | 157,650,000 | 2101 | 1429 | 0.98041229 | |
| 1 | 157,575,000 | 157,725,000 | 2102 | 1461 | 0.836059559 | |
| 1 | 157,650,000 | 157,800,000 | 2103 | 1428 | 0.199858826 | |
| 1 | 157,725,000 | 157,875,000 | 2104 | 1197 | -0.52773594 | |
| 1 | 157,800,000 | 157,950,000 | 2105 | 1224 | -2.748837332 | |
| 1 | 157,875,000 | 158,025,000 | 2106 | 1553 | -2.284176508 | |
| 1 | 157,950,000 | 158,100,000 | 2107 | 1835 | 0.175489228 | |
| 1 | 158,025,000 | 158,175,000 | 2108 | 1663 | 0.315082419 | |
| 1 | 158,100,000 | 158,250,000 | 2109 | 1679 | 0.25042217 | |
| 1 | 158,175,000 | 158,325,000 | 2110 | 1639 | 0.044323768 | ENSBTAG00000047978 |
| 1 | 158,250,000 | 158,337,067 | 2111 | 794 | -0.308558343 | ENSBTAG00000047978 |
| 2 | 0 | 150,000 | 1 | 1019 | 0.386605869 | |
| 2 | 75,000 | 225,000 | 2 | 934 | 0.213447794 | |
| 2 | 150,000 | 300,000 | 3 | 590 | 0.263479545 | LGSN |
| 2 | 225,000 | 375,000 | 4 | 464 | -0.125237351 | LGSN,OCA2 |
| 2 | 300,000 | 450,000 | 5 | 506 | -0.261682127 | LGSN,OCA2 |
| 2 | 375,000 | 525,000 | 6 | 604 | 0.052783256 | OCA2 |
| 2 | 450,000 | 600,000 | 7 | 918 | 0.008018537 | OCA2 |
| 2 | 525,000 | 675,000 | 8 | 1295 | -2.538809241 | HERC2,OCA2 |
| 2 | 600,000 | 750,000 | 9 | 1158 | -3.948066945 | HERC2 |
| 2 | 675,000 | 825,000 | 10 | 988 | -3.334993254 | HERC2 |
| 2 | 750,000 | 900,000 | 11 | 1240 | -1.944788211 | HERC2 |
| 2 | 825,000 | 975,000 | 12 | 1210 | -0.881327988 | HERC2,NIPA1,NIPA2 |
| 2 | 900,000 | 1,050,000 | 13 | 1113 | -0.200409852 | CYFIP1,NIPA1,NIPA2 |
| 2 | 975,000 | 1,125,000 | 14 | 1180 | 0.437835843 | CYFIP1,NIPA2 |
| 2 | 1,050,000 | 1,200,000 | 15 | 1155 | 0.516230897 | CYFIP1,TUBGCP5 |
| 2 | 1,125,000 | 1,275,000 | 16 | 1048 | 0.218791943 | CCDC115,IMP4,PTPN18,TUBGCP5 |
| 2 | 1,200,000 | 1,350,000 | 17 | 1146 | 0.334820481 | CCDC115,IMP4,PTPN18,TUBGCP5 |
| 2 | 1,275,000 | 1,425,000 | 18 | 1501 | 0.027331095 | AMER3,PTPN18 |
| 2 | 1,350,000 | 1,500,000 | 19 | 1640 | 0.364443399 | AMER3 |
| 2 | 1,425,000 | 1,575,000 | 20 | 1622 | 1.037601634 | |
| 2 | 1,500,000 | 1,650,000 | 21 | 1575 | 0.953044108 | ARHGEF4 |
| 2 | 1,575,000 | 1,725,000 | 22 | 1183 | 0.618558814 | ARHGEF4 |
| 2 | 1,650,000 | 1,800,000 | 23 | 1159 | -0.366654891 | ARHGEF4,FAM168B |
| 2 | 1,725,000 | 1,875,000 | 24 | 1443 | 0.244245695 | ARHGEF4,FAM168B,PLEKHB2 |
| 2 | 1,800,000 | 1,950,000 | 25 | 1647 | 0.57154989 | FAM168B,PLEKHB2 |
| 2 | 1,875,000 | 2,025,000 | 26 | 1702 | 0.415453824 | PLEKHB2 |
| 2 | 1,950,000 | 2,100,000 | 27 | 1295 | 0.233146814 | |
| 2 | 2,025,000 | 2,175,000 | 28 | 1089 | 0.085272288 | |
| 2 | 2,100,000 | 2,250,000 | 29 | 1175 | 0.503662104 | |
| 2 | 2,175,000 | 2,325,000 | 30 | 1411 | -0.272066148 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---------------------------------|
| 2 | 2,250,000 | 2,400,000 | 31 | 1125 | -1.03104542 | |
| 2 | 2,325,000 | 2,475,000 | 32 | 514 | -2.176039438 | |
| 2 | 2,400,000 | 2,550,000 | 33 | 348 | -1.388504209 | |
| 2 | 2,475,000 | 2,625,000 | 34 | 512 | -2.031262883 | |
| 2 | 2,550,000 | 2,700,000 | 35 | 709 | -1.374717153 | |
| 2 | 2,625,000 | 2,775,000 | 36 | 853 | 0.480782881 | |
| 2 | 2,700,000 | 2,850,000 | 37 | 842 | 0.660959855 | |
| 2 | 2,775,000 | 2,925,000 | 38 | 629 | -0.027612206 | |
| 2 | 2,850,000 | 3,000,000 | 39 | 802 | -2.163155344 | |
| 2 | 2,925,000 | 3,075,000 | 40 | 867 | -2.446384712 | |
| 2 | 3,000,000 | 3,150,000 | 41 | 534 | -1.290703899 | |
| 2 | 3,075,000 | 3,225,000 | 42 | 557 | 0.461453145 | |
| 2 | 3,150,000 | 3,300,000 | 43 | 1048 | 1.025605567 | |
| 2 | 3,225,000 | 3,375,000 | 44 | 1037 | 1.066097443 | |
| 2 | 3,300,000 | 3,450,000 | 45 | 990 | 1.217403965 | |
| 2 | 3,375,000 | 3,525,000 | 46 | 1289 | 1.211360667 | |
| 2 | 3,450,000 | 3,600,000 | 47 | 1241 | 1.021059756 | |
| 2 | 3,525,000 | 3,675,000 | 48 | 1400 | 0.876876316 | |
| 2 | 3,600,000 | 3,750,000 | 49 | 1898 | 0.975878029 | |
| 2 | 3,675,000 | 3,825,000 | 50 | 1592 | 0.632864968 | |
| 2 | 3,750,000 | 3,900,000 | 51 | 939 | -0.128955899 | |
| 2 | 3,825,000 | 3,975,000 | 52 | 761 | 0.304361689 | |
| 2 | 3,900,000 | 4,050,000 | 53 | 697 | 0.159359556 | |
| 2 | 3,975,000 | 4,125,000 | 54 | 654 | -0.057074689 | HS6ST1 |
| 2 | 4,050,000 | 4,200,000 | 55 | 1137 | 0.053144536 | HS6ST1 |
| 2 | 4,125,000 | 4,275,000 | 56 | 1593 | 0.183934794 | HS6ST1,UGGT1 |
| 2 | 4,200,000 | 4,350,000 | 57 | 1264 | -0.317749675 | UGGT1 |
| 2 | 4,275,000 | 4,425,000 | 58 | 822 | -1.893667891 | SAP130,UGGT1 |
| 2 | 4,350,000 | 4,500,000 | 59 | 534 | -2.466761651 | SAP130 |
| 2 | 4,425,000 | 4,575,000 | 60 | 702 | -0.817629583 | AMMECR1L,POLR2D,SAP130 |
| 2 | 4,500,000 | 4,650,000 | 61 | 707 | 0.067811212 | AMMECR1L,POLR2D,WDR33 |
| 2 | 4,575,000 | 4,725,000 | 62 | 421 | 0.049768983 | SFT2D3,WDR33 |
| 2 | 4,650,000 | 4,800,000 | 63 | 408 | -0.490545228 | LIMS2,SFT2D3,WDR33 |
| 2 | 4,725,000 | 4,875,000 | 64 | 754 | 0.641672145 | GPR17,LIMS2,MYO7B |
| 2 | 4,800,000 | 4,950,000 | 65 | 1076 | -0.394051726 | GPR17,IWS1,LIMS2,MYO7B |
| 2 | 4,875,000 | 5,025,000 | 66 | 799 | -0.858368918 | IWS1,MYO7B |
| 2 | 4,950,000 | 5,100,000 | 67 | 531 | -0.276303964 | IWS1,PROC |
| 2 | 5,025,000 | 5,175,000 | 68 | 561 | -0.223632152 | MAP3K2,PROC |
| 2 | 5,100,000 | 5,250,000 | 69 | 658 | 0.596540101 | CYP27C1,ERCC3,MAP3K2 |
| 2 | 5,175,000 | 5,325,000 | 70 | 910 | 0.559890529 | CYP27C1,ERCC3 |
| 2 | 5,250,000 | 5,400,000 | 71 | 947 | -0.866614756 | BIN1,CYP27C1,ENSBTAG00000034949 |
| 2 | 5,325,000 | 5,475,000 | 72 | 1201 | -2.323103853 | BIN1,ENSBTAG00000034949 |
| 2 | 5,400,000 | 5,550,000 | 73 | 1593 | -0.881343201 | BIN1,ENSBTAG00000017214 |
| 2 | 5,475,000 | 5,625,000 | 74 | 1141 | 0.151722138 | NAB1,ENSBTAG00000017214 |
| 2 | 5,550,000 | 5,700,000 | 75 | 752 | -0.138716127 | NAB1 |
| 2 | 5,625,000 | 5,775,000 | 76 | 715 | -0.346962755 | MFSD6,TMEM194B |
| 2 | 5,700,000 | 5,850,000 | 77 | 706 | -0.851826714 | MFSD6,TMEM194B |
| 2 | 5,775,000 | 5,925,000 | 78 | 769 | -0.592899669 | INPP1,MFSD6 |
| 2 | 5,850,000 | 6,000,000 | 79 | 741 | 0.071485859 | HIBCH,INPP1 |
| 2 | 5,925,000 | 6,075,000 | 80 | 756 | 0.787382187 | C2H2orf88,HIBCH |
| 2 | 6,000,000 | 6,150,000 | 81 | 1045 | 0.132762958 | C2H2orf88,HIBCH |
| 2 | 6,075,000 | 6,225,000 | 82 | 1166 | -0.21428584 | C2H2orf88,MSTN |
| 2 | 6,150,000 | 6,300,000 | 83 | 782 | 0.380570261 | MSTN |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 2 | 6,225,000 | 6,375,000 | 84 | 475 | 0.659676906 | |
| 2 | 6,300,000 | 6,450,000 | 85 | 311 | 0.281919464 | PMS1 |
| 2 | 6,375,000 | 6,525,000 | 86 | 272 | -0.935971548 | ORMDL1,PMS1 |
| 2 | 6,450,000 | 6,600,000 | 87 | 503 | 0.290783875 | ANKAR,ORMDL1,OSGEPL1,PMS1 |
| 2 | 6,525,000 | 6,675,000 | 88 | 723 | 0.77877207 | ANKAR,ASNSD1,OSGEPL1 |
| 2 | 6,600,000 | 6,750,000 | 89 | 875 | 0.785935127 | ASNSD1,SLC40A1 |
| 2 | 6,675,000 | 6,825,000 | 90 | 997 | 1.151014263 | SLC40A1 |
| 2 | 6,750,000 | 6,900,000 | 91 | 1188 | -0.060451707 | WDR75 |
| 2 | 6,825,000 | 6,975,000 | 92 | 1199 | -1.184276787 | WDR75 |
| 2 | 6,900,000 | 7,050,000 | 93 | 990 | -1.281961004 | WDR75 |
| 2 | 6,975,000 | 7,125,000 | 94 | 1057 | -1.14716924 | |
| 2 | 7,050,000 | 7,200,000 | 95 | 1269 | -0.249856272 | COL5A2 |
| 2 | 7,125,000 | 7,275,000 | 96 | 1308 | 0.149159584 | COL5A2 |
| 2 | 7,200,000 | 7,350,000 | 97 | 964 | 0.518997489 | COL3A1,COL5A2 |
| 2 | 7,275,000 | 7,425,000 | 98 | 680 | 1.261767214 | COL3A1,COL5A2 |
| 2 | 7,350,000 | 7,500,000 | 99 | 773 | 0.571594927 | COL3A1 |
| 2 | 7,425,000 | 7,575,000 | 100 | 824 | 0.316126445 | |
| 2 | 7,500,000 | 7,650,000 | 101 | 974 | 0.49604722 | |
| 2 | 7,575,000 | 7,725,000 | 102 | 1019 | -0.131907778 | |
| 2 | 7,650,000 | 7,800,000 | 103 | 850 | -0.738627169 | GULP1 |
| 2 | 7,725,000 | 7,875,000 | 104 | 622 | -0.857126434 | GULP1 |
| 2 | 7,800,000 | 7,950,000 | 105 | 554 | -0.636992135 | GULP1 |
| 2 | 7,875,000 | 8,025,000 | 106 | 519 | -0.594887536 | GULP1 |
| 2 | 7,950,000 | 8,100,000 | 107 | 362 | -1.961895654 | |
| 2 | 8,025,000 | 8,175,000 | 108 | 940 | -1.636544117 | |
| 2 | 8,100,000 | 8,250,000 | 109 | 1115 | -1.893328554 | |
| 2 | 8,175,000 | 8,325,000 | 110 | 931 | -0.809506014 | |
| 2 | 8,250,000 | 8,400,000 | 111 | 1192 | 0.523633788 | |
| 2 | 8,325,000 | 8,475,000 | 112 | 1193 | -0.473928433 | |
| 2 | 8,400,000 | 8,550,000 | 113 | 1041 | -1.586172888 | |
| 2 | 8,475,000 | 8,625,000 | 114 | 1174 | 0.222094942 | |
| 2 | 8,550,000 | 8,700,000 | 115 | 1191 | 0.531278419 | |
| 2 | 8,625,000 | 8,775,000 | 116 | 1386 | -0.402226379 | |
| 2 | 8,700,000 | 8,850,000 | 117 | 1429 | 0.001659115 | |
| 2 | 8,775,000 | 8,925,000 | 118 | 872 | 0.616429499 | CALCRL |
| 2 | 8,850,000 | 9,000,000 | 119 | 634 | 0.219571781 | CALCRL |
| 2 | 8,925,000 | 9,075,000 | 120 | 638 | -0.053829696 | CALCRL |
| 2 | 9,000,000 | 9,150,000 | 121 | 770 | 0.91864369 | CALCRL |
| 2 | 9,075,000 | 9,225,000 | 122 | 707 | 0.82291596 | |
| 2 | 9,150,000 | 9,300,000 | 123 | 510 | 0.0333869 | |
| 2 | 9,225,000 | 9,375,000 | 124 | 739 | 0.884250533 | |
| 2 | 9,300,000 | 9,450,000 | 125 | 840 | 0.784206085 | |
| 2 | 9,375,000 | 9,525,000 | 126 | 595 | 0.360323868 | ZSWIM2 |
| 2 | 9,450,000 | 9,600,000 | 127 | 743 | 0.682103496 | FAM171B,ZSWIM2 |
| 2 | 9,525,000 | 9,675,000 | 128 | 847 | 0.477277201 | FAM171B,ITGAV |
| 2 | 9,600,000 | 9,750,000 | 129 | 618 | -0.073446205 | ITGAV |
| 2 | 9,675,000 | 9,825,000 | 130 | 571 | -0.072254867 | ITGAV |
| 2 | 9,750,000 | 9,900,000 | 131 | 585 | 0.272680939 | ITGAV,ZC3H15 |
| 2 | 9,825,000 | 9,975,000 | 132 | 410 | 0.336271902 | ZC3H15 |
| 2 | 9,900,000 | 10,050,000 | 133 | 384 | -0.149602088 | |
| 2 | 9,975,000 | 10,125,000 | 134 | 476 | -0.188156277 | |
| 2 | 10,050,000 | 10,200,000 | 135 | 454 | -0.306709263 | |
| 2 | 10,125,000 | 10,275,000 | 136 | 605 | 0.199842486 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 10,200,000 | 10,350,000 | 137 | 688 | 0.213214581 | |
| 2 | 10,275,000 | 10,425,000 | 138 | 914 | 0.633851837 | |
| 2 | 10,350,000 | 10,500,000 | 139 | 1357 | -0.242080101 | |
| 2 | 10,425,000 | 10,575,000 | 140 | 1255 | 0.246980159 | |
| 2 | 10,500,000 | 10,650,000 | 141 | 971 | 1.2955103 | FSIP2 |
| 2 | 10,575,000 | 10,725,000 | 142 | 770 | 1.324570017 | FSIP2 |
| 2 | 10,650,000 | 10,800,000 | 143 | 583 | 1.235391992 | FSIP2 |
| 2 | 10,725,000 | 10,875,000 | 144 | 853 | 1.330754076 | FSIP2 |
| 2 | 10,800,000 | 10,950,000 | 145 | 1029 | 1.403912663 | |
| 2 | 10,875,000 | 11,025,000 | 146 | 985 | 1.26127436 | |
| 2 | 10,950,000 | 11,100,000 | 147 | 1150 | 1.174942964 | |
| 2 | 11,025,000 | 11,175,000 | 148 | 1405 | 0.91669639 | |
| 2 | 11,100,000 | 11,250,000 | 149 | 1639 | 0.692574127 | |
| 2 | 11,175,000 | 11,325,000 | 150 | 1756 | 0.899359809 | |
| 2 | 11,250,000 | 11,400,000 | 151 | 1734 | -0.510106612 | |
| 2 | 11,325,000 | 11,475,000 | 152 | 1473 | -2.475549009 | |
| 2 | 11,400,000 | 11,550,000 | 153 | 1453 | -1.654565893 | |
| 2 | 11,475,000 | 11,625,000 | 154 | 1457 | -0.109558269 | ZNF804A |
| 2 | 11,550,000 | 11,700,000 | 155 | 1389 | 0.814286251 | ZNF804A |
| 2 | 11,625,000 | 11,775,000 | 156 | 1271 | 0.618633087 | ENSBTAG00000038064 |
| 2 | 11,700,000 | 11,850,000 | 157 | 1386 | -0.95592769 | ENSBTAG00000038064 |
| 2 | 11,775,000 | 11,925,000 | 158 | 1547 | -1.075643233 | |
| 2 | 11,850,000 | 12,000,000 | 159 | 1292 | -0.226216283 | |
| 2 | 11,925,000 | 12,075,000 | 160 | 1544 | 0.164476713 | |
| 2 | 12,000,000 | 12,150,000 | 161 | 1707 | 0.470623915 | |
| 2 | 12,075,000 | 12,225,000 | 162 | 1164 | 0.044632058 | |
| 2 | 12,150,000 | 12,300,000 | 163 | 1058 | -0.108121242 | |
| 2 | 12,225,000 | 12,375,000 | 164 | 1075 | 0.535695569 | |
| 2 | 12,300,000 | 12,450,000 | 165 | 1486 | 1.204092105 | |
| 2 | 12,375,000 | 12,525,000 | 166 | 1916 | 0.550312989 | |
| 2 | 12,450,000 | 12,600,000 | 167 | 1588 | -0.453497884 | |
| 2 | 12,525,000 | 12,675,000 | 168 | 1568 | 0.190160214 | |
| 2 | 12,600,000 | 12,750,000 | 169 | 1513 | -0.382562693 | |
| 2 | 12,675,000 | 12,825,000 | 170 | 1304 | -1.115983744 | |
| 2 | 12,750,000 | 12,900,000 | 171 | 933 | -0.679781744 | |
| 2 | 12,825,000 | 12,975,000 | 172 | 636 | -1.945732465 | |
| 2 | 12,900,000 | 13,050,000 | 173 | 994 | -0.50970111 | |
| 2 | 12,975,000 | 13,125,000 | 174 | 1411 | 0.143513393 | |
| 2 | 13,050,000 | 13,200,000 | 175 | 1544 | -0.037612445 | |
| 2 | 13,125,000 | 13,275,000 | 176 | 1476 | 0.720440015 | |
| 2 | 13,200,000 | 13,350,000 | 177 | 1157 | 1.280041816 | |
| 2 | 13,275,000 | 13,425,000 | 178 | 1052 | 1.032283545 | |
| 2 | 13,350,000 | 13,500,000 | 179 | 1611 | 0.909268189 | NUP35 |
| 2 | 13,425,000 | 13,575,000 | 180 | 1771 | 1.153915057 | DUSP19,NUP35 |
| 2 | 13,500,000 | 13,650,000 | 181 | 1044 | 1.260449627 | DUSP19,NCKAP1 |
| 2 | 13,575,000 | 13,725,000 | 182 | 968 | 0.961826144 | FRZB,NCKAP1 |
| 2 | 13,650,000 | 13,800,000 | 183 | 1532 | 0.005335237 | FRZB,NCKAP1 |
| 2 | 13,725,000 | 13,875,000 | 184 | 1781 | -0.488132821 | DNAJC10,FRZB |
| 2 | 13,800,000 | 13,950,000 | 185 | 1906 | 0.016032695 | DNAJC10 |
| 2 | 13,875,000 | 14,025,000 | 186 | 1844 | -0.067491224 | |
| 2 | 13,950,000 | 14,100,000 | 187 | 1609 | -0.169680762 | PDE1A |
| 2 | 14,025,000 | 14,175,000 | 188 | 1344 | -0.102094932 | PDE1A |
| 2 | 14,100,000 | 14,250,000 | 189 | 1093 | -0.375704439 | PDE1A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------------|
| 2 | 14,175,000 | 14,325,000 | 190 | 965 | -0.658217346 | PDE1A |
| 2 | 14,250,000 | 14,400,000 | 191 | 1078 | -1.913837781 | PDE1A |
| 2 | 14,325,000 | 14,475,000 | 192 | 1241 | -2.579413626 | PDE1A,ENSBTAG00000033523 |
| 2 | 14,400,000 | 14,550,000 | 193 | 1372 | -0.559529471 | PDE1A,PPP1R1C,ENSBTAG00000033523 |
| 2 | 14,475,000 | 14,625,000 | 194 | 1475 | -0.475263082 | PDE1A,PPP1R1C |
| 2 | 14,550,000 | 14,700,000 | 195 | 1321 | -1.314411455 | PPP1R1C,SSFA2 |
| 2 | 14,625,000 | 14,775,000 | 196 | 1234 | -0.489475378 | SSFA2 |
| 2 | 14,700,000 | 14,850,000 | 197 | 1116 | 0.06193809 | SSFA2 |
| 2 | 14,775,000 | 14,925,000 | 198 | 1427 | 0.418796486 | |
| 2 | 14,850,000 | 15,000,000 | 199 | 1527 | 0.521456533 | NEUROD1 |
| 2 | 14,925,000 | 15,075,000 | 200 | 1180 | 0.955671215 | CERKL,NEUROD1 |
| 2 | 15,000,000 | 15,150,000 | 201 | 997 | 1.041844521 | CERKL,ITGA4 |
| 2 | 15,075,000 | 15,225,000 | 202 | 915 | -0.534402124 | CERKL,ITGA4 |
| 2 | 15,150,000 | 15,300,000 | 203 | 859 | -1.044836848 | ITGA4 |
| 2 | 15,225,000 | 15,375,000 | 204 | 753 | -0.393995753 | |
| 2 | 15,300,000 | 15,450,000 | 205 | 937 | -1.476414397 | |
| 2 | 15,375,000 | 15,525,000 | 206 | 954 | -0.50829097 | |
| 2 | 15,450,000 | 15,600,000 | 207 | 985 | 1.006926711 | |
| 2 | 15,525,000 | 15,675,000 | 208 | 940 | 0.964853359 | UBE2E3 |
| 2 | 15,600,000 | 15,750,000 | 209 | 869 | -0.786031386 | UBE2E3 |
| 2 | 15,675,000 | 15,825,000 | 210 | 700 | -1.60882917 | UBE2E3 |
| 2 | 15,750,000 | 15,900,000 | 211 | 640 | -0.93739421 | UBE2E3 |
| 2 | 15,825,000 | 15,975,000 | 212 | 846 | -1.944287845 | |
| 2 | 15,900,000 | 16,050,000 | 213 | 930 | -0.63577059 | |
| 2 | 15,975,000 | 16,125,000 | 214 | 1050 | -0.026230925 | |
| 2 | 16,050,000 | 16,200,000 | 215 | 930 | -0.569186986 | |
| 2 | 16,125,000 | 16,275,000 | 216 | 540 | -0.781562461 | |
| 2 | 16,200,000 | 16,350,000 | 217 | 382 | -0.439844424 | |
| 2 | 16,275,000 | 16,425,000 | 218 | 671 | 1.086466683 | |
| 2 | 16,350,000 | 16,500,000 | 219 | 878 | 0.363418998 | |
| 2 | 16,425,000 | 16,575,000 | 220 | 749 | -1.444550002 | |
| 2 | 16,500,000 | 16,650,000 | 221 | 757 | 0.6410877 | |
| 2 | 16,575,000 | 16,725,000 | 222 | 904 | 1.303877002 | |
| 2 | 16,650,000 | 16,800,000 | 223 | 973 | 0.560155517 | |
| 2 | 16,725,000 | 16,875,000 | 224 | 917 | -0.716081933 | CWC22 |
| 2 | 16,800,000 | 16,950,000 | 225 | 552 | -1.758747492 | CWC22 |
| 2 | 16,875,000 | 17,025,000 | 226 | 246 | -3.395639833 | CWC22 |
| 2 | 16,950,000 | 17,100,000 | 227 | 675 | 0.696556381 | MGC139239 |
| 2 | 17,025,000 | 17,175,000 | 228 | 1297 | 0.967653943 | MGC139239 |
| 2 | 17,100,000 | 17,250,000 | 229 | 1331 | 0.988246757 | MGC139239 |
| 2 | 17,175,000 | 17,325,000 | 230 | 1117 | 1.13509039 | MGC139239 |
| 2 | 17,250,000 | 17,400,000 | 231 | 1066 | 0.809507201 | MGC139239 |
| 2 | 17,325,000 | 17,475,000 | 232 | 1055 | 0.403641888 | MGC139239 |
| 2 | 17,400,000 | 17,550,000 | 233 | 1182 | 0.819685589 | MGC139239 |
| 2 | 17,475,000 | 17,625,000 | 234 | 1101 | 0.646932675 | |
| 2 | 17,550,000 | 17,700,000 | 235 | 1164 | 0.627702502 | |
| 2 | 17,625,000 | 17,775,000 | 236 | 1553 | 0.965898447 | SESTD1 |
| 2 | 17,700,000 | 17,850,000 | 237 | 1596 | 0.331979502 | CCDC141,SESTD1 |
| 2 | 17,775,000 | 17,925,000 | 238 | 1582 | -0.206099618 | CCDC141 |
| 2 | 17,850,000 | 18,000,000 | 239 | 1523 | 0.699285755 | CCDC141 |
| 2 | 17,925,000 | 18,075,000 | 240 | 1310 | 1.103146877 | CCDC141,TTN |
| 2 | 18,000,000 | 18,150,000 | 241 | 1091 | 0.57768329 | CCDC141,TTN |
| 2 | 18,075,000 | 18,225,000 | 242 | 1014 | 0.395692827 | TTN |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 2 | 18,150,000 | 18,300,000 | 243 | 730 | 0.672266385 | TTN |
| 2 | 18,225,000 | 18,375,000 | 244 | 626 | 1.073429775 | TTN |
| 2 | 18,300,000 | 18,450,000 | 245 | 782 | 1.22411728 | DFNB59,FKBP7,PLEKHA3,PRKRA,TTN |
| 2 | 18,375,000 | 18,525,000 | 246 | 905 | 1.024957864 | DFNB59,FKBP7,OSBPL6,PLEKHA3,PRKRA |
| 2 | 18,450,000 | 18,600,000 | 247 | 981 | 0.466813847 | OSBPL6 |
| 2 | 18,525,000 | 18,675,000 | 248 | 1022 | -0.247451044 | OSBPL6 |
| 2 | 18,600,000 | 18,750,000 | 249 | 1213 | -0.20634259 | |
| 2 | 18,675,000 | 18,825,000 | 250 | 1048 | -0.190223537 | CYCT,PDE11A,RBM45 |
| 2 | 18,750,000 | 18,900,000 | 251 | 688 | -0.198531349 | CYCT,PDE11A,RBM45 |
| 2 | 18,825,000 | 18,975,000 | 252 | 890 | 0.298404017 | PDE11A |
| 2 | 18,900,000 | 19,050,000 | 253 | 1192 | 0.190224719 | PDE11A |
| 2 | 18,975,000 | 19,125,000 | 254 | 990 | 0.086148601 | PDE11A |
| 2 | 19,050,000 | 19,200,000 | 255 | 769 | 0.83342008 | PDE11A |
| 2 | 19,125,000 | 19,275,000 | 256 | 673 | 0.641533555 | PDE11A,TTC30A |
| 2 | 19,200,000 | 19,350,000 | 257 | 494 | 0.090552926 | AGPS,PDE11A,TTC30A,TTC30B |
| 2 | 19,275,000 | 19,425,000 | 258 | 486 | 0.535694669 | AGPS,TTC30B |
| 2 | 19,350,000 | 19,500,000 | 259 | 506 | -0.523454998 | AGPS |
| 2 | 19,425,000 | 19,575,000 | 260 | 494 | -0.866599189 | AGPS |
| 2 | 19,500,000 | 19,650,000 | 261 | 819 | -0.647690102 | |
| 2 | 19,575,000 | 19,725,000 | 262 | 932 | -0.151718333 | HNRNPA3,NFE2L2 |
| 2 | 19,650,000 | 19,800,000 | 263 | 754 | 0.571209427 | HNRNPA3,NFE2L2 |
| 2 | 19,725,000 | 19,875,000 | 264 | 785 | 0.330741051 | |
| 2 | 19,800,000 | 19,950,000 | 265 | 748 | 0.199595801 | |
| 2 | 19,875,000 | 20,025,000 | 266 | 729 | 0.157136442 | |
| 2 | 19,950,000 | 20,100,000 | 267 | 896 | -1.736495831 | |
| 2 | 20,025,000 | 20,175,000 | 268 | 732 | -2.155655116 | |
| 2 | 20,100,000 | 20,250,000 | 269 | 340 | -0.828042625 | |
| 2 | 20,175,000 | 20,325,000 | 270 | 313 | -1.839656488 | |
| 2 | 20,250,000 | 20,400,000 | 271 | 538 | -1.052446267 | |
| 2 | 20,325,000 | 20,475,000 | 272 | 733 | 0.423998976 | |
| 2 | 20,400,000 | 20,550,000 | 273 | 887 | 0.426675628 | |
| 2 | 20,475,000 | 20,625,000 | 274 | 1002 | 0.369052799 | MTX2 |
| 2 | 20,550,000 | 20,700,000 | 275 | 808 | 0.307422466 | MTX2 |
| 2 | 20,625,000 | 20,775,000 | 276 | 441 | 0.370286476 | HOXD1,MTX2 |
| 2 | 20,700,000 | 20,850,000 | 277 | 254 | 0.30830846 | HOXD,HOXD1,HOXD10,HOXD12,HOXD3,HOXD4,HOXD9 |
| 2 | 20,775,000 | 20,925,000 | 278 | 326 | -0.033308893 | HOXD,HOXD10,HOXD12,HOXD13,HOXD3,HOXD4,HOXD9 |
| 2 | 20,850,000 | 21,000,000 | 279 | 515 | 0.015929569 | HOXD13,KIAA1715 |
| 2 | 20,925,000 | 21,075,000 | 280 | 584 | -0.284252682 | KIAA1715,ENSBTAG00000031711 |
| 2 | 21,000,000 | 21,150,000 | 281 | 558 | -0.026101767 | KIAA1715,ENSBTAG00000031711 |
| 2 | 21,075,000 | 21,225,000 | 282 | 651 | 0.28011416 | |
| 2 | 21,150,000 | 21,300,000 | 283 | 805 | -0.001641611 | |
| 2 | 21,225,000 | 21,375,000 | 284 | 802 | -0.083012951 | |
| 2 | 21,300,000 | 21,450,000 | 285 | 1167 | -0.33203897 | |
| 2 | 21,375,000 | 21,525,000 | 286 | 1564 | -0.737330762 | |
| 2 | 21,450,000 | 21,600,000 | 287 | 1245 | -0.675236814 | |
| 2 | 21,525,000 | 21,675,000 | 288 | 1164 | 0.180114538 | |
| 2 | 21,600,000 | 21,750,000 | 289 | 1118 | 0.151196591 | ATF2,ATP5G3 |
| 2 | 21,675,000 | 21,825,000 | 290 | 639 | 0.164134829 | ATF2,ATP5G3 |
| 2 | 21,750,000 | 21,900,000 | 291 | 503 | 0.21086734 | ATF2,CHN1 |
| 2 | 21,825,000 | 21,975,000 | 292 | 618 | -0.009698437 | ATF2,CHN1 |
| 2 | 21,900,000 | 22,050,000 | 293 | 595 | -0.213049262 | CHN1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 2 | 21,975,000 | 22,125,000 | 294 | 540 | -0.217894774 | CHN1,CHRNA1 |
| 2 | 22,050,000 | 22,200,000 | 295 | 596 | -0.719335357 | CHN1,CHRNA1 |
| 2 | 22,125,000 | 22,275,000 | 296 | 592 | -1.627750697 | CHRNA1,WIPF1 |
| 2 | 22,200,000 | 22,350,000 | 297 | 573 | -0.745012649 | WIPF1 |
| 2 | 22,275,000 | 22,425,000 | 298 | 637 | -0.361555848 | GPR155,SCRN3,WIPF1 |
| 2 | 22,350,000 | 22,500,000 | 299 | 675 | -0.404043785 | CIR1,GPR155,SCRN3,SP9 |
| 2 | 22,425,000 | 22,575,000 | 300 | 697 | 0.485640723 | CIR1,OLA1,SCRN3,SP9 |
| 2 | 22,500,000 | 22,650,000 | 301 | 564 | 0.558299764 | OLA1 |
| 2 | 22,575,000 | 22,725,000 | 302 | 379 | 0.55083051 | OLA1 |
| 2 | 22,650,000 | 22,800,000 | 303 | 388 | 0.623010986 | OLA1 |
| 2 | 22,725,000 | 22,875,000 | 304 | 344 | 0.900877593 | OLA1,SP3 |
| 2 | 22,800,000 | 22,950,000 | 305 | 334 | 1.402167521 | SP3 |
| 2 | 22,875,000 | 23,025,000 | 306 | 517 | 1.235334228 | SP3 |
| 2 | 22,950,000 | 23,100,000 | 307 | 804 | 0.892133679 | |
| 2 | 23,025,000 | 23,175,000 | 308 | 841 | 0.848161164 | |
| 2 | 23,100,000 | 23,250,000 | 309 | 701 | 0.472381599 | |
| 2 | 23,175,000 | 23,325,000 | 310 | 705 | -0.324269579 | UBL5 |
| 2 | 23,250,000 | 23,400,000 | 311 | 674 | -0.571387106 | CDCA7,UBL5 |
| 2 | 23,325,000 | 23,475,000 | 312 | 493 | -0.245277131 | CDCA7,ENSBTAG00000001083 |
| 2 | 23,400,000 | 23,550,000 | 313 | 399 | 0.500513593 | ENSBTAG00000001083 |
| 2 | 23,475,000 | 23,625,000 | 314 | 514 | 0.271781869 | ENSBTAG00000001083 |
| 2 | 23,550,000 | 23,700,000 | 315 | 828 | 0.025805939 | RAPGEF4,ENSBTAG00000001083 |
| 2 | 23,625,000 | 23,775,000 | 316 | 1046 | 0.770988886 | RAPGEF4 |
| 2 | 23,700,000 | 23,850,000 | 317 | 759 | 1.38294353 | RAPGEF4 |
| 2 | 23,775,000 | 23,925,000 | 318 | 712 | 1.283405849 | RAPGEF4 |
| 2 | 23,850,000 | 24,000,000 | 319 | 809 | 1.273224385 | RAPGEF4 |
| 2 | 23,925,000 | 24,075,000 | 320 | 998 | 0.954865381 | PDK1,RAPGEF4 |
| 2 | 24,000,000 | 24,150,000 | 321 | 962 | 0.87039283 | ITGA6,PDK1 |
| 2 | 24,075,000 | 24,225,000 | 322 | 740 | 0.149391955 | ITGA6,PDK1 |
| 2 | 24,150,000 | 24,300,000 | 323 | 810 | -0.583198639 | ITGA6 |
| 2 | 24,225,000 | 24,375,000 | 324 | 894 | -0.874926469 | |
| 2 | 24,300,000 | 24,450,000 | 325 | 827 | -0.642776592 | |
| 2 | 24,375,000 | 24,525,000 | 326 | 618 | -0.659141395 | DLX1,DLX2,MAP1D |
| 2 | 24,450,000 | 24,600,000 | 327 | 770 | -1.201407034 | DLX1,DLX2,MAP1D |
| 2 | 24,525,000 | 24,675,000 | 328 | 637 | -1.228627438 | HAT1,MAP1D |
| 2 | 24,600,000 | 24,750,000 | 329 | 426 | 1.104037572 | HAT1,SLC25A12 |
| 2 | 24,675,000 | 24,825,000 | 330 | 494 | 1.099815958 | DYNC1I2,SLC25A12 |
| 2 | 24,750,000 | 24,900,000 | 331 | 488 | 0.021525545 | DYNC1I2,SLC25A12 |
| 2 | 24,825,000 | 24,975,000 | 332 | 673 | -2.523784847 | CYBRD1,DYNC1I2 |
| 2 | 24,900,000 | 25,050,000 | 333 | 595 | -2.83704965 | CYBRD1,DCAF17 |
| 2 | 24,975,000 | 25,125,000 | 334 | 401 | 0.567773949 | CYBRD1,DCAF17,METTL8 |
| 2 | 25,050,000 | 25,200,000 | 335 | 405 | 0.383716011 | DCAF17,METTL8 |
| 2 | 25,125,000 | 25,275,000 | 336 | 456 | -0.543571411 | METTL8 |
| 2 | 25,200,000 | 25,350,000 | 337 | 501 | -0.063202002 | |
| 2 | 25,275,000 | 25,425,000 | 338 | 514 | 0.708011189 | TLK1 |
| 2 | 25,350,000 | 25,500,000 | 339 | 524 | 1.059066389 | TLK1 |
| 2 | 25,425,000 | 25,575,000 | 340 | 610 | 1.226653387 | GORASP2,TLK1,ENSBTAG00000036258 |
| 2 | 25,500,000 | 25,650,000 | 341 | 959 | 0.632657664 | GAD1,GORASP2,ENSBTAG00000036258 |
| 2 | 25,575,000 | 25,725,000 | 342 | 1020 | 0.328161994 | ERICH2,GAD1,GORASP2 |
| 2 | 25,650,000 | 25,800,000 | 343 | 904 | 0.250559054 | ERICH2,GAD1,SP5 |
| 2 | 25,725,000 | 25,875,000 | 344 | 975 | -0.284590038 | SP5 |
| 2 | 25,800,000 | 25,950,000 | 345 | 1020 | -0.158885559 | |
| 2 | 25,875,000 | 26,025,000 | 346 | 1056 | 0.355001948 | MYO3B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 2 | 25,950,000 | 26,100,000 | 347 | 931 | 0.924700428 | MYO3B |
| 2 | 26,025,000 | 26,175,000 | 348 | 995 | 1.433253868 | MYO3B |
| 2 | 26,100,000 | 26,250,000 | 349 | 1469 | 1.267397119 | MYO3B |
| 2 | 26,175,000 | 26,325,000 | 350 | 1791 | 0.439459084 | MYO3B |
| 2 | 26,250,000 | 26,400,000 | 351 | 1697 | 0.060988893 | MYO3B,UBR3 |
| 2 | 26,325,000 | 26,475,000 | 352 | 1196 | 0.411595997 | UBR3 |
| 2 | 26,400,000 | 26,550,000 | 353 | 796 | 0.692111363 | UBR3 |
| 2 | 26,475,000 | 26,625,000 | 354 | 642 | 0.719858392 | KLHL23,METTL5,SSB,UBR3 |
| 2 | 26,550,000 | 26,700,000 | 355 | 532 | 0.980696443 | CCDC173,KLHL23,METTL5,PHOSPHO2,PPIG,SSB,UBR3 |
| 2 | 26,625,000 | 26,775,000 | 356 | 528 | 1.171415038 | CCDC173,FASTKD1,KLHL23,PHOSPHO2,PPIG,ENSBTAG00000046878 |
| 2 | 26,700,000 | 26,850,000 | 357 | 864 | 0.878165126 | BBS5,FASTKD1,KBTBD10,PPIG,ENSBTAG00000046878 |
| 2 | 26,775,000 | 26,925,000 | 358 | 1108 | 0.692540233 | BBS5,FASTKD1,KBTBD10 |
| 2 | 26,850,000 | 27,000,000 | 359 | 939 | 0.571052272 | LRP2 |
| 2 | 26,925,000 | 27,075,000 | 360 | 1320 | 0.547374294 | LRP2 |
| 2 | 27,000,000 | 27,150,000 | 361 | 1523 | 0.858673513 | DHRS9,LRP2 |
| 2 | 27,075,000 | 27,225,000 | 362 | 1034 | 0.834862968 | ABCB11,DHRS9,LRP2 |
| 2 | 27,150,000 | 27,300,000 | 363 | 828 | 0.452457565 | ABCB11,G6PC2,SPC25 |
| 2 | 27,225,000 | 27,375,000 | 364 | 1146 | 0.150161357 | ABCB11,G6PC2,NOSTRIN,SPC25 |
| 2 | 27,300,000 | 27,450,000 | 365 | 1310 | 0.503742591 | CERS6,NOSTRIN,SPC25 |
| 2 | 27,375,000 | 27,525,000 | 366 | 1197 | 0.869616743 | CERS6,NOSTRIN |
| 2 | 27,450,000 | 27,600,000 | 367 | 1196 | -0.653307042 | CERS6 |
| 2 | 27,525,000 | 27,675,000 | 368 | 1236 | -1.965784248 | CERS6 |
| 2 | 27,600,000 | 27,750,000 | 369 | 1212 | -1.187313016 | CERS6 |
| 2 | 27,675,000 | 27,825,000 | 370 | 1336 | -1.154329879 | CERS6 |
| 2 | 27,750,000 | 27,900,000 | 371 | 1558 | -0.574900645 | CERS6 |
| 2 | 27,825,000 | 27,975,000 | 372 | 1373 | 0.368592119 | STK39 |
| 2 | 27,900,000 | 28,050,000 | 373 | 1278 | 0.470549352 | STK39 |
| 2 | 27,975,000 | 28,125,000 | 374 | 1453 | 0.709333386 | STK39 |
| 2 | 28,050,000 | 28,200,000 | 375 | 1269 | 0.709662475 | |
| 2 | 28,125,000 | 28,275,000 | 376 | 1134 | 0.302812268 | |
| 2 | 28,200,000 | 28,350,000 | 377 | 1347 | 0.00280531 | |
| 2 | 28,275,000 | 28,425,000 | 378 | 1292 | -0.493969752 | B3GALT1 |
| 2 | 28,350,000 | 28,500,000 | 379 | 1293 | -0.988089406 | B3GALT1 |
| 2 | 28,425,000 | 28,575,000 | 380 | 1123 | -0.329940402 | |
| 2 | 28,500,000 | 28,650,000 | 381 | 711 | 0.407210346 | |
| 2 | 28,575,000 | 28,725,000 | 382 | 521 | -0.165550835 | |
| 2 | 28,650,000 | 28,800,000 | 383 | 758 | 0.986494786 | |
| 2 | 28,725,000 | 28,875,000 | 384 | 981 | -0.429699414 | |
| 2 | 28,800,000 | 28,950,000 | 385 | 1362 | -1.240321746 | |
| 2 | 28,875,000 | 29,025,000 | 386 | 1883 | 0.752970313 | |
| 2 | 28,950,000 | 29,100,000 | 387 | 1766 | 0.718622486 | XIRP2 |
| 2 | 29,025,000 | 29,175,000 | 388 | 1544 | 0.469361928 | XIRP2 |
| 2 | 29,100,000 | 29,250,000 | 389 | 1544 | -0.718776308 | XIRP2 |
| 2 | 29,175,000 | 29,325,000 | 390 | 1645 | -0.747416883 | |
| 2 | 29,250,000 | 29,400,000 | 391 | 1548 | -0.344690609 | |
| 2 | 29,325,000 | 29,475,000 | 392 | 1285 | -0.452440932 | ENSBTAG00000046347 |
| 2 | 29,400,000 | 29,550,000 | 393 | 1132 | -0.631375638 | ENSBTAG00000046347 |
| 2 | 29,475,000 | 29,625,000 | 394 | 936 | -0.401237988 | |
| 2 | 29,550,000 | 29,700,000 | 395 | 598 | 0.551540515 | |
| 2 | 29,625,000 | 29,775,000 | 396 | 666 | 0.789497124 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 2 | 29,700,000 | 29,850,000 | 397 | 1001 | -0.341472577 | |
| 2 | 29,775,000 | 29,925,000 | 398 | 977 | -0.785752575 | |
| 2 | 29,850,000 | 30,000,000 | 399 | 1044 | -0.722629735 | SCN7A |
| 2 | 29,925,000 | 30,075,000 | 400 | 1314 | -0.164848729 | SCN7A |
| 2 | 30,000,000 | 30,150,000 | 401 | 993 | -0.609831737 | SCN9A,ENSBTAG00000026882 |
| 2 | 30,075,000 | 30,225,000 | 402 | 586 | -2.851381555 | SCN9A,ENSBTAG00000026882 |
| 2 | 30,150,000 | 30,300,000 | 403 | 633 | -0.195305303 | SCN9A |
| 2 | 30,225,000 | 30,375,000 | 404 | 936 | -0.599322337 | SCN1A |
| 2 | 30,300,000 | 30,450,000 | 405 | 1286 | 0.307012454 | SCN1A,TTC21B |
| 2 | 30,375,000 | 30,525,000 | 406 | 1186 | 1.111103117 | SCN1A,TTC21B |
| 2 | 30,450,000 | 30,600,000 | 407 | 831 | 1.045769632 | TTC21B |
| 2 | 30,525,000 | 30,675,000 | 408 | 823 | 0.886259961 | GALNT3,TTC21B |
| 2 | 30,600,000 | 30,750,000 | 409 | 987 | 0.291366154 | CSRNP3,GALNT3 |
| 2 | 30,675,000 | 30,825,000 | 410 | 1094 | 0.447065775 | CSRNP3 |
| 2 | 30,750,000 | 30,900,000 | 411 | 1295 | 0.565049437 | CSRNP3 |
| 2 | 30,825,000 | 30,975,000 | 412 | 1312 | -0.132268407 | |
| 2 | 30,900,000 | 31,050,000 | 413 | 1196 | -0.082896574 | SCN2A |
| 2 | 30,975,000 | 31,125,000 | 414 | 1247 | 0.530717952 | SCN2A |
| 2 | 31,050,000 | 31,200,000 | 415 | 1109 | 0.567160607 | SCN2A,SCN3A |
| 2 | 31,125,000 | 31,275,000 | 416 | 1032 | 0.122399539 | SCN3A |
| 2 | 31,200,000 | 31,350,000 | 417 | 1057 | -1.602549084 | SCN3A |
| 2 | 31,275,000 | 31,425,000 | 418 | 882 | -2.55061278 | SCN3A,SLC38A11 |
| 2 | 31,350,000 | 31,500,000 | 419 | 921 | 0.088333689 | SLC38A11 |
| 2 | 31,425,000 | 31,575,000 | 420 | 1075 | 0.535953209 | SLC38A11 |
| 2 | 31,500,000 | 31,650,000 | 421 | 1143 | 0.61063459 | ENSBTAG00000005501 |
| 2 | 31,575,000 | 31,725,000 | 422 | 1364 | 0.360459926 | ENSBTAG00000005501,ENSBTAG00000047880 |
| 2 | 31,650,000 | 31,800,000 | 423 | 1561 | 0.276714102 | GRB14,ENSBTAG00000005501,ENSBTAG00000047880 |
| 2 | 31,725,000 | 31,875,000 | 424 | 1348 | 0.797621803 | GRB14 |
| 2 | 31,800,000 | 31,950,000 | 425 | 1209 | 1.241719648 | GRB14 |
| 2 | 31,875,000 | 32,025,000 | 426 | 1172 | 1.064902382 | GRB14 |
| 2 | 31,950,000 | 32,100,000 | 427 | 733 | 0.383167102 | |
| 2 | 32,025,000 | 32,175,000 | 428 | 634 | -0.316199885 | |
| 2 | 32,100,000 | 32,250,000 | 429 | 642 | 0.137638431 | |
| 2 | 32,175,000 | 32,325,000 | 430 | 671 | 0.362686732 | |
| 2 | 32,250,000 | 32,400,000 | 431 | 905 | -1.022298913 | |
| 2 | 32,325,000 | 32,475,000 | 432 | 643 | -1.66812749 | |
| 2 | 32,400,000 | 32,550,000 | 433 | 497 | 0.358328217 | |
| 2 | 32,475,000 | 32,625,000 | 434 | 690 | 1.094645657 | |
| 2 | 32,550,000 | 32,700,000 | 435 | 597 | 1.100510469 | |
| 2 | 32,625,000 | 32,775,000 | 436 | 369 | 0.74716765 | |
| 2 | 32,700,000 | 32,850,000 | 437 | 371 | 0.780001241 | |
| 2 | 32,775,000 | 32,925,000 | 438 | 372 | 0.861894274 | FIGN |
| 2 | 32,850,000 | 33,000,000 | 439 | 380 | 0.061380444 | FIGN |
| 2 | 32,925,000 | 33,075,000 | 440 | 384 | 0.083851496 | |
| 2 | 33,000,000 | 33,150,000 | 441 | 624 | 0.317999906 | |
| 2 | 33,075,000 | 33,225,000 | 442 | 761 | 0.619731942 | |
| 2 | 33,150,000 | 33,300,000 | 443 | 826 | 0.719698597 | |
| 2 | 33,225,000 | 33,375,000 | 444 | 994 | -0.420954872 | |
| 2 | 33,300,000 | 33,450,000 | 445 | 957 | -1.139393353 | |
| 2 | 33,375,000 | 33,525,000 | 446 | 784 | -0.793020693 | |
| 2 | 33,450,000 | 33,600,000 | 447 | 568 | -0.00927534 | |
| 2 | 33,525,000 | 33,675,000 | 448 | 744 | 0.826319012 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 2 | 33,600,000 | 33,750,000 | 449 | 943 | 1.268947622 | |
| 2 | 33,675,000 | 33,825,000 | 450 | 943 | 1.447725643 | |
| 2 | 33,750,000 | 33,900,000 | 451 | 1133 | 1.332720943 | |
| 2 | 33,825,000 | 33,975,000 | 452 | 1313 | 0.895722652 | |
| 2 | 33,900,000 | 34,050,000 | 453 | 945 | 0.650061906 | KCNH7 |
| 2 | 33,975,000 | 34,125,000 | 454 | 550 | 0.409443701 | KCNH7 |
| 2 | 34,050,000 | 34,200,000 | 455 | 414 | -0.050140634 | GCA,KCNH7 |
| 2 | 34,125,000 | 34,275,000 | 456 | 325 | -0.179369138 | GCA,IFIH1,KCNH7 |
| 2 | 34,200,000 | 34,350,000 | 457 | 414 | -0.210342965 | FAP,IFIH1 |
| 2 | 34,275,000 | 34,425,000 | 458 | 527 | 0.451315295 | FAP,GCG |
| 2 | 34,350,000 | 34,500,000 | 459 | 828 | -2.248769468 | DPP4,FAP,GCG |
| 2 | 34,425,000 | 34,575,000 | 460 | 786 | -2.831093828 | DPP4,SLC4A10,ENSBTAG00000048246 |
| 2 | 34,500,000 | 34,650,000 | 461 | 771 | -1.70451795 | DPP4,SLC4A10,ENSBTAG00000048246 |
| 2 | 34,575,000 | 34,725,000 | 462 | 748 | -2.07790562 | SLC4A10 |
| 2 | 34,650,000 | 34,800,000 | 463 | 516 | -1.791477979 | SLC4A10 |
| 2 | 34,725,000 | 34,875,000 | 464 | 563 | -0.631514513 | SLC4A10 |
| 2 | 34,800,000 | 34,950,000 | 465 | 590 | 0.649951571 | SLC4A10 |
| 2 | 34,875,000 | 35,025,000 | 466 | 903 | 0.355692716 | |
| 2 | 34,950,000 | 35,100,000 | 467 | 759 | 0.313823976 | PSMD14,TBR1 |
| 2 | 35,025,000 | 35,175,000 | 468 | 336 | 1.012712856 | PSMD14,TBR1 |
| 2 | 35,100,000 | 35,250,000 | 469 | 380 | 1.105895864 | PSMD14,TANK |
| 2 | 35,175,000 | 35,325,000 | 470 | 353 | 1.171774616 | PSMD14,TANK |
| 2 | 35,250,000 | 35,400,000 | 471 | 353 | 1.371159149 | TANK |
| 2 | 35,325,000 | 35,475,000 | 472 | 351 | 1.400806911 | TANK |
| 2 | 35,400,000 | 35,550,000 | 473 | 242 | 0.973448336 | |
| 2 | 35,475,000 | 35,625,000 | 474 | 259 | -0.502593647 | |
| 2 | 35,550,000 | 35,700,000 | 475 | 432 | -1.082198619 | |
| 2 | 35,625,000 | 35,775,000 | 476 | 473 | -0.620288406 | |
| 2 | 35,700,000 | 35,850,000 | 477 | 390 | 0.387683325 | |
| 2 | 35,775,000 | 35,925,000 | 478 | 412 | -0.931630642 | |
| 2 | 35,850,000 | 36,000,000 | 479 | 483 | -1.614495584 | RBMS1 |
| 2 | 35,925,000 | 36,075,000 | 480 | 451 | -1.143741411 | RBMS1 |
| 2 | 36,000,000 | 36,150,000 | 481 | 350 | -1.529581944 | RBMS1 |
| 2 | 36,075,000 | 36,225,000 | 482 | 370 | -1.896601169 | RBMS1 |
| 2 | 36,150,000 | 36,300,000 | 483 | 702 | -0.201106233 | ITGB6,RBMS1 |
| 2 | 36,225,000 | 36,375,000 | 484 | 810 | 0.507348539 | ITGB6,PLA2R1 |
| 2 | 36,300,000 | 36,450,000 | 485 | 877 | 0.899129069 | ITGB6,PLA2R1 |
| 2 | 36,375,000 | 36,525,000 | 486 | 1152 | 0.701391378 | PLA2R1 |
| 2 | 36,450,000 | 36,600,000 | 487 | 900 | 0.49885525 | LY75,PLA2R1 |
| 2 | 36,525,000 | 36,675,000 | 488 | 486 | 1.074494197 | CD302,LY75 |
| 2 | 36,600,000 | 36,750,000 | 489 | 322 | 0.8440338 | CD302,LY75,MARCH7 |
| 2 | 36,675,000 | 36,825,000 | 490 | 311 | 0.875271063 | BAZ2B,CD302,MARCH7 |
| 2 | 36,750,000 | 36,900,000 | 491 | 364 | 1.027454012 | BAZ2B |
| 2 | 36,825,000 | 36,975,000 | 492 | 388 | 1.018489863 | BAZ2B |
| 2 | 36,900,000 | 37,050,000 | 493 | 335 | 1.24904894 | BAZ2B |
| 2 | 36,975,000 | 37,125,000 | 494 | 305 | 1.374754881 | BAZ2B |
| 2 | 37,050,000 | 37,200,000 | 495 | 282 | 1.33055598 | BAZ2B,WDSUB1 |
| 2 | 37,125,000 | 37,275,000 | 496 | 316 | 1.017769907 | BAZ2B,TANC1,WDSUB1 |
| 2 | 37,200,000 | 37,350,000 | 497 | 622 | 0.884942121 | TANC1,WDSUB1 |
| 2 | 37,275,000 | 37,425,000 | 498 | 1032 | 0.980126149 | TANC1 |
| 2 | 37,350,000 | 37,500,000 | 499 | 1245 | 1.224854338 | TANC1 |
| 2 | 37,425,000 | 37,575,000 | 500 | 1135 | 1.355773989 | TANC1 |
| 2 | 37,500,000 | 37,650,000 | 501 | 970 | 1.365432479 | DAPL1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 37,575,000 | 37,725,000 | 502 | 942 | -0.672422649 | DAPL1 |
| 2 | 37,650,000 | 37,800,000 | 503 | 968 | -2.994053959 | |
| 2 | 37,725,000 | 37,875,000 | 504 | 892 | -2.176570169 | PKP4 |
| 2 | 37,800,000 | 37,950,000 | 505 | 845 | -0.502991505 | PKP4 |
| 2 | 37,875,000 | 38,025,000 | 506 | 926 | -0.451722385 | CCDC148,PKP4 |
| 2 | 37,950,000 | 38,100,000 | 507 | 829 | -0.763890011 | CCDC148 |
| 2 | 38,025,000 | 38,175,000 | 508 | 978 | -2.844478577 | CCDC148 |
| 2 | 38,100,000 | 38,250,000 | 509 | 822 | -2.724300023 | CCDC148 |
| 2 | 38,175,000 | 38,325,000 | 510 | 473 | -0.266722145 | |
| 2 | 38,250,000 | 38,400,000 | 511 | 796 | 0.090071446 | UPP2 |
| 2 | 38,325,000 | 38,475,000 | 512 | 976 | 0.598115799 | UPP2 |
| 2 | 38,400,000 | 38,550,000 | 513 | 902 | 0.500978291 | ACVR1C |
| 2 | 38,475,000 | 38,625,000 | 514 | 785 | 0.250793826 | ACVR1C |
| 2 | 38,550,000 | 38,700,000 | 515 | 727 | 0.511390802 | ACVR1C,CYTIP |
| 2 | 38,625,000 | 38,775,000 | 516 | 698 | 0.539457176 | CYTIP |
| 2 | 38,700,000 | 38,850,000 | 517 | 733 | 0.640276329 | CYTIP,ERMN,GALNT5 |
| 2 | 38,775,000 | 38,925,000 | 518 | 649 | 0.586383056 | ERMN,GALNT5 |
| 2 | 38,850,000 | 39,000,000 | 519 | 629 | 0.081192301 | |
| 2 | 38,925,000 | 39,075,000 | 520 | 754 | 0.423161702 | |
| 2 | 39,000,000 | 39,150,000 | 521 | 705 | 0.263214446 | |
| 2 | 39,075,000 | 39,225,000 | 522 | 677 | -0.018382582 | |
| 2 | 39,150,000 | 39,300,000 | 523 | 646 | 1.171540953 | ACVR1 |
| 2 | 39,225,000 | 39,375,000 | 524 | 534 | 1.445847626 | ACVR1 |
| 2 | 39,300,000 | 39,450,000 | 525 | 594 | 0.950593548 | ACVR1 |
| 2 | 39,375,000 | 39,525,000 | 526 | 747 | 1.004674873 | |
| 2 | 39,450,000 | 39,600,000 | 527 | 555 | 1.168043289 | ENSBTAG00000032405 |
| 2 | 39,525,000 | 39,675,000 | 528 | 412 | 1.013730882 | ENSBTAG00000032405 |
| 2 | 39,600,000 | 39,750,000 | 529 | 633 | -0.271217827 | |
| 2 | 39,675,000 | 39,825,000 | 530 | 674 | -1.641784587 | GPD2 |
| 2 | 39,750,000 | 39,900,000 | 531 | 355 | -1.796604631 | GPD2 |
| 2 | 39,825,000 | 39,975,000 | 532 | 299 | 0.998085946 | GPD2 |
| 2 | 39,900,000 | 40,050,000 | 533 | 384 | 0.729413399 | GPD2,NR4A2 |
| 2 | 39,975,000 | 40,125,000 | 534 | 490 | -0.023121059 | NR4A2 |
| 2 | 40,050,000 | 40,200,000 | 535 | 488 | 0.024081141 | |
| 2 | 40,125,000 | 40,275,000 | 536 | 413 | -0.34021288 | |
| 2 | 40,200,000 | 40,350,000 | 537 | 524 | -0.808893328 | |
| 2 | 40,275,000 | 40,425,000 | 538 | 492 | -0.458150833 | |
| 2 | 40,350,000 | 40,500,000 | 539 | 455 | -0.375913729 | |
| 2 | 40,425,000 | 40,575,000 | 540 | 676 | -0.855103575 | |
| 2 | 40,500,000 | 40,650,000 | 541 | 612 | -0.772512139 | |
| 2 | 40,575,000 | 40,725,000 | 542 | 401 | -0.622323566 | |
| 2 | 40,650,000 | 40,800,000 | 543 | 483 | -0.908959883 | |
| 2 | 40,725,000 | 40,875,000 | 544 | 594 | -0.018307467 | |
| 2 | 40,800,000 | 40,950,000 | 545 | 502 | 0.459430193 | |
| 2 | 40,875,000 | 41,025,000 | 546 | 723 | 0.524670673 | |
| 2 | 40,950,000 | 41,100,000 | 547 | 1097 | 0.603991515 | |
| 2 | 41,025,000 | 41,175,000 | 548 | 1034 | -0.293054439 | |
| 2 | 41,100,000 | 41,250,000 | 549 | 700 | -0.210135858 | |
| 2 | 41,175,000 | 41,325,000 | 550 | 447 | 0.448966816 | |
| 2 | 41,250,000 | 41,400,000 | 551 | 597 | -0.616269864 | KCNJ3 |
| 2 | 41,325,000 | 41,475,000 | 552 | 764 | -0.222433488 | KCNJ3 |
| 2 | 41,400,000 | 41,550,000 | 553 | 606 | 0.492864813 | KCNJ3 |
| 2 | 41,475,000 | 41,625,000 | 554 | 779 | -0.042165821 | KCNJ3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 2 | 41,550,000 | 41,700,000 | 555 | 1027 | 0.240620791 | |
| 2 | 41,625,000 | 41,775,000 | 556 | 690 | 0.991035311 | |
| 2 | 41,700,000 | 41,850,000 | 557 | 512 | 0.292503829 | GALNT13 |
| 2 | 41,775,000 | 41,925,000 | 558 | 686 | -0.211754874 | GALNT13 |
| 2 | 41,850,000 | 42,000,000 | 559 | 586 | 0.259668911 | GALNT13 |
| 2 | 41,925,000 | 42,075,000 | 560 | 661 | 0.450166823 | GALNT13 |
| 2 | 42,000,000 | 42,150,000 | 561 | 819 | 0.32914756 | GALNT13 |
| 2 | 42,075,000 | 42,225,000 | 562 | 753 | 0.48885184 | GALNT13 |
| 2 | 42,150,000 | 42,300,000 | 563 | 700 | 0.576026039 | GALNT13 |
| 2 | 42,225,000 | 42,375,000 | 564 | 751 | 0.267549376 | GALNT13 |
| 2 | 42,300,000 | 42,450,000 | 565 | 712 | 0.25126907 | GALNT13 |
| 2 | 42,375,000 | 42,525,000 | 566 | 465 | 0.873277367 | |
| 2 | 42,450,000 | 42,600,000 | 567 | 649 | 0.928312066 | |
| 2 | 42,525,000 | 42,675,000 | 568 | 852 | 0.97188446 | |
| 2 | 42,600,000 | 42,750,000 | 569 | 888 | 1.188577305 | |
| 2 | 42,675,000 | 42,825,000 | 570 | 889 | 0.480558214 | RPRM |
| 2 | 42,750,000 | 42,900,000 | 571 | 671 | -0.596604815 | RPRM |
| 2 | 42,825,000 | 42,975,000 | 572 | 492 | -1.139884076 | |
| 2 | 42,900,000 | 43,050,000 | 573 | 618 | -1.081129655 | |
| 2 | 42,975,000 | 43,125,000 | 574 | 782 | -0.822402759 | |
| 2 | 43,050,000 | 43,200,000 | 575 | 519 | -0.501107976 | |
| 2 | 43,125,000 | 43,275,000 | 576 | 214 | 0.045012419 | |
| 2 | 43,200,000 | 43,350,000 | 577 | 155 | 0.659066253 | |
| 2 | 43,275,000 | 43,425,000 | 578 | 677 | 0.536325325 | ENSBTAG00000012816 |
| 2 | 43,350,000 | 43,500,000 | 579 | 871 | 0.538416736 | ENSBTAG00000012816 |
| 2 | 43,425,000 | 43,575,000 | 580 | 582 | 1.132297123 | ARL6IP6 |
| 2 | 43,500,000 | 43,650,000 | 581 | 441 | 1.477398023 | ARL6IP6,PRPF40A |
| 2 | 43,575,000 | 43,725,000 | 582 | 302 | 1.119654337 | ARL6IP6,FMNL2,PRPF40A |
| 2 | 43,650,000 | 43,800,000 | 583 | 368 | 0.968463356 | FMNL2,ENSBTAG00000034503 |
| 2 | 43,725,000 | 43,875,000 | 584 | 602 | 1.186104292 | FMNL2,ENSBTAG00000034503 |
| 2 | 43,800,000 | 43,950,000 | 585 | 814 | 0.721225693 | FMNL2 |
| 2 | 43,875,000 | 44,025,000 | 586 | 796 | -1.699507915 | FMNL2 |
| 2 | 43,950,000 | 44,100,000 | 587 | 779 | -0.802810118 | FMNL2 |
| 2 | 44,025,000 | 44,175,000 | 588 | 735 | 0.64985986 | STAM2,ENSBTAG00000048306 |
| 2 | 44,100,000 | 44,250,000 | 589 | 900 | 0.322989711 | CACNB4,STAM2,ENSBTAG00000048306 |
| 2 | 44,175,000 | 44,325,000 | 590 | 1027 | 0.203313237 | CACNB4 |
| 2 | 44,250,000 | 44,400,000 | 591 | 809 | 0.155814127 | CACNB4 |
| 2 | 44,325,000 | 44,475,000 | 592 | 468 | -0.891086933 | ARL5A,CACNB4 |
| 2 | 44,400,000 | 44,550,000 | 593 | 375 | -2.761867833 | ARL5A,CACNB4,NEB |
| 2 | 44,475,000 | 44,625,000 | 594 | 407 | -2.023910838 | ARL5A,NEB |
| 2 | 44,550,000 | 44,700,000 | 595 | 355 | 0.363405271 | NEB |
| 2 | 44,625,000 | 44,775,000 | 596 | 389 | 0.454698434 | NEB,RIF1 |
| 2 | 44,700,000 | 44,850,000 | 597 | 403 | 0.384020879 | NEB,RIF1 |
| 2 | 44,775,000 | 44,925,000 | 598 | 487 | 0.361918174 | RIF1,TSG-6 |
| 2 | 44,850,000 | 45,000,000 | 599 | 606 | -0.068397173 | NMI,RBM43,TSG-6 |
| 2 | 44,925,000 | 45,075,000 | 600 | 771 | -0.404881269 | NMI,RBM43 |
| 2 | 45,000,000 | 45,150,000 | 601 | 855 | -0.220857439 | |
| 2 | 45,075,000 | 45,225,000 | 602 | 1109 | 0.878082946 | |
| 2 | 45,150,000 | 45,300,000 | 603 | 1036 | 0.589344842 | |
| 2 | 45,225,000 | 45,375,000 | 604 | 541 | -1.083980242 | |
| 2 | 45,300,000 | 45,450,000 | 605 | 435 | -0.446421401 | |
| 2 | 45,375,000 | 45,525,000 | 606 | 467 | 0.585688863 | |
| 2 | 45,450,000 | 45,600,000 | 607 | 613 | 0.169788758 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 45,525,000 | 45,675,000 | 608 | 708 | 0.080248226 | |
| 2 | 45,600,000 | 45,750,000 | 609 | 701 | 0.477024014 | |
| 2 | 45,675,000 | 45,825,000 | 610 | 624 | -0.57578645 | RND3 |
| 2 | 45,750,000 | 45,900,000 | 611 | 466 | -0.50188635 | RND3 |
| 2 | 45,825,000 | 45,975,000 | 612 | 533 | 0.685957708 | |
| 2 | 45,900,000 | 46,050,000 | 613 | 700 | -0.033170633 | |
| 2 | 45,975,000 | 46,125,000 | 614 | 677 | -0.169759571 | |
| 2 | 46,050,000 | 46,200,000 | 615 | 587 | 0.59221373 | |
| 2 | 46,125,000 | 46,275,000 | 616 | 611 | 0.43903787 | |
| 2 | 46,200,000 | 46,350,000 | 617 | 554 | -0.593922123 | |
| 2 | 46,275,000 | 46,425,000 | 618 | 421 | -1.122671168 | |
| 2 | 46,350,000 | 46,500,000 | 619 | 565 | -1.064927313 | |
| 2 | 46,425,000 | 46,575,000 | 620 | 839 | -0.805315754 | |
| 2 | 46,500,000 | 46,650,000 | 621 | 658 | 0.136343123 | MMADHC |
| 2 | 46,575,000 | 46,725,000 | 622 | 729 | 0.32914756 | LYPD6,MMADHC |
| 2 | 46,650,000 | 46,800,000 | 623 | 875 | -0.006255519 | LYPD6,MMADHC |
| 2 | 46,725,000 | 46,875,000 | 624 | 609 | 0.171800871 | LYPD6 |
| 2 | 46,800,000 | 46,950,000 | 625 | 462 | 0.226903551 | |
| 2 | 46,875,000 | 47,025,000 | 626 | 652 | -0.543648261 | |
| 2 | 46,950,000 | 47,100,000 | 627 | 1013 | -1.092157842 | LYPD6B |
| 2 | 47,025,000 | 47,175,000 | 628 | 873 | -1.192251787 | LYPD6B |
| 2 | 47,100,000 | 47,250,000 | 629 | 843 | -0.578258627 | |
| 2 | 47,175,000 | 47,325,000 | 630 | 1102 | 0.084205568 | KIF5C |
| 2 | 47,250,000 | 47,400,000 | 631 | 854 | 0.696293886 | KIF5C |
| 2 | 47,325,000 | 47,475,000 | 632 | 513 | 1.077391756 | KIF5C |
| 2 | 47,400,000 | 47,550,000 | 633 | 438 | 0.871448499 | EPC2,KIF5C |
| 2 | 47,475,000 | 47,625,000 | 634 | 382 | 0.764108351 | EPC2 |
| 2 | 47,550,000 | 47,700,000 | 635 | 391 | 0.704803989 | EPC2 |
| 2 | 47,625,000 | 47,775,000 | 636 | 449 | -0.071575409 | EPC2 |
| 2 | 47,700,000 | 47,850,000 | 637 | 415 | -0.289237821 | MBD5 |
| 2 | 47,775,000 | 47,925,000 | 638 | 286 | 0.027244942 | MBD5 |
| 2 | 47,850,000 | 48,000,000 | 639 | 315 | -0.310831987 | MBD5,PTMA |
| 2 | 47,925,000 | 48,075,000 | 640 | 392 | -0.540732665 | PTMA |
| 2 | 48,000,000 | 48,150,000 | 641 | 381 | -0.950114765 | |
| 2 | 48,075,000 | 48,225,000 | 642 | 501 | -1.643469623 | |
| 2 | 48,150,000 | 48,300,000 | 643 | 838 | -0.151577755 | ORC4 |
| 2 | 48,225,000 | 48,375,000 | 644 | 778 | 0.74714053 | ORC4 |
| 2 | 48,300,000 | 48,450,000 | 645 | 460 | 0.142954117 | ACVR2A,ORC4 |
| 2 | 48,375,000 | 48,525,000 | 646 | 423 | -0.329834348 | ACVR2A,ORC4 |
| 2 | 48,450,000 | 48,600,000 | 647 | 598 | -2.320016568 | ACVR2A |
| 2 | 48,525,000 | 48,675,000 | 648 | 652 | -3.039641501 | |
| 2 | 48,600,000 | 48,750,000 | 649 | 565 | -1.969334297 | |
| 2 | 48,675,000 | 48,825,000 | 650 | 696 | -0.087824617 | |
| 2 | 48,750,000 | 48,900,000 | 651 | 850 | 0.834352592 | |
| 2 | 48,825,000 | 48,975,000 | 652 | 758 | 0.711619296 | |
| 2 | 48,900,000 | 49,050,000 | 653 | 633 | 0.285868043 | |
| 2 | 48,975,000 | 49,125,000 | 654 | 852 | 0.560882147 | |
| 2 | 49,050,000 | 49,200,000 | 655 | 1007 | 0.530697905 | |
| 2 | 49,125,000 | 49,275,000 | 656 | 639 | 0.392612304 | |
| 2 | 49,200,000 | 49,350,000 | 657 | 268 | 0.682153473 | |
| 2 | 49,275,000 | 49,425,000 | 658 | 390 | 0.62714222 | ENSBTAG00000046032 |
| 2 | 49,350,000 | 49,500,000 | 659 | 412 | 0.37452568 | ENSBTAG00000046032 |
| 2 | 49,425,000 | 49,575,000 | 660 | 533 | 0.567444268 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------|
| 2 | 49,500,000 | 49,650,000 | 661 | 564 | 0.377088274 | |
| 2 | 49,575,000 | 49,725,000 | 662 | 382 | 0.546363817 | |
| 2 | 49,650,000 | 49,800,000 | 663 | 515 | 0.518316575 | SNRPD1 |
| 2 | 49,725,000 | 49,875,000 | 664 | 651 | 0.086946351 | SNRPD1 |
| 2 | 49,800,000 | 49,950,000 | 665 | 732 | 0.261340955 | |
| 2 | 49,875,000 | 50,025,000 | 666 | 802 | 0.191985571 | |
| 2 | 49,950,000 | 50,100,000 | 667 | 748 | 0.511078379 | |
| 2 | 50,025,000 | 50,175,000 | 668 | 697 | 0.900636219 | |
| 2 | 50,100,000 | 50,250,000 | 669 | 752 | 0.57261846 | |
| 2 | 50,175,000 | 50,325,000 | 670 | 616 | -0.305445019 | |
| 2 | 50,250,000 | 50,400,000 | 671 | 449 | -1.096522687 | |
| 2 | 50,325,000 | 50,475,000 | 672 | 501 | 0.415130067 | |
| 2 | 50,400,000 | 50,550,000 | 673 | 564 | 1.060649428 | |
| 2 | 50,475,000 | 50,625,000 | 674 | 536 | 1.20892735 | |
| 2 | 50,550,000 | 50,700,000 | 675 | 556 | 0.824744127 | |
| 2 | 50,625,000 | 50,775,000 | 676 | 729 | 0.572298762 | |
| 2 | 50,700,000 | 50,850,000 | 677 | 847 | 0.742098735 | |
| 2 | 50,775,000 | 50,925,000 | 678 | 689 | 0.150851014 | |
| 2 | 50,850,000 | 51,000,000 | 679 | 808 | 0.266922875 | |
| 2 | 50,925,000 | 51,075,000 | 680 | 1124 | 0.221608196 | |
| 2 | 51,000,000 | 51,150,000 | 681 | 992 | -0.10261105 | |
| 2 | 51,075,000 | 51,225,000 | 682 | 763 | -0.044557298 | |
| 2 | 51,150,000 | 51,300,000 | 683 | 889 | 0.426973336 | |
| 2 | 51,225,000 | 51,375,000 | 684 | 922 | 0.827972333 | |
| 2 | 51,300,000 | 51,450,000 | 685 | 1333 | 0.769863766 | |
| 2 | 51,375,000 | 51,525,000 | 686 | 1364 | 0.728135649 | |
| 2 | 51,450,000 | 51,600,000 | 687 | 677 | 0.544402467 | |
| 2 | 51,525,000 | 51,675,000 | 688 | 464 | 0.35767342 | |
| 2 | 51,600,000 | 51,750,000 | 689 | 573 | 0.431841634 | |
| 2 | 51,675,000 | 51,825,000 | 690 | 629 | 0.606836495 | |
| 2 | 51,750,000 | 51,900,000 | 691 | 541 | 0.515589947 | |
| 2 | 51,825,000 | 51,975,000 | 692 | 905 | -0.264541815 | |
| 2 | 51,900,000 | 52,050,000 | 693 | 932 | -0.609864672 | |
| 2 | 51,975,000 | 52,125,000 | 694 | 785 | 0.413288554 | |
| 2 | 52,050,000 | 52,200,000 | 695 | 720 | 0.69725305 | |
| 2 | 52,125,000 | 52,275,000 | 696 | 487 | 0.04325329 | |
| 2 | 52,200,000 | 52,350,000 | 697 | 370 | -0.626506899 | ZEB2 |
| 2 | 52,275,000 | 52,425,000 | 698 | 305 | -1.059416777 | ZEB2 |
| 2 | 52,350,000 | 52,500,000 | 699 | 324 | -1.333570595 | ZEB2 |
| 2 | 52,425,000 | 52,575,000 | 700 | 279 | -1.579313804 | |
| 2 | 52,500,000 | 52,650,000 | 701 | 315 | -1.053339921 | GTDC1 |
| 2 | 52,575,000 | 52,725,000 | 702 | 327 | -0.960090584 | GTDC1 |
| 2 | 52,650,000 | 52,800,000 | 703 | 302 | -1.090940691 | GTDC1 |
| 2 | 52,725,000 | 52,875,000 | 704 | 348 | -0.540360912 | GTDC1 |
| 2 | 52,800,000 | 52,950,000 | 705 | 441 | 0.324434138 | GTDC1 |
| 2 | 52,875,000 | 53,025,000 | 706 | 611 | 0.500974938 | GTDC1 |
| 2 | 52,950,000 | 53,100,000 | 707 | 593 | 0.16960215 | ARHGAP15 |
| 2 | 53,025,000 | 53,175,000 | 708 | 451 | -0.160860487 | ARHGAP15 |
| 2 | 53,100,000 | 53,250,000 | 709 | 591 | -0.465009477 | ARHGAP15 |
| 2 | 53,175,000 | 53,325,000 | 710 | 643 | -0.557217192 | ARHGAP15 |
| 2 | 53,250,000 | 53,400,000 | 711 | 537 | -0.03708195 | ARHGAP15 |
| 2 | 53,325,000 | 53,475,000 | 712 | 503 | 0.122369539 | ARHGAP15 |
| 2 | 53,400,000 | 53,550,000 | 713 | 553 | 0.051778494 | ARHGAP15 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 53,475,000 | 53,625,000 | 714 | 523 | 0.12769459 | ARHGAP15 |
| 2 | 53,550,000 | 53,700,000 | 715 | 425 | -0.052693029 | ARHGAP15 |
| 2 | 53,625,000 | 53,775,000 | 716 | 436 | 0.171830937 | ARHGAP15 |
| 2 | 53,700,000 | 53,850,000 | 717 | 893 | -0.43339689 | ARHGAP15,KYNU |
| 2 | 53,775,000 | 53,925,000 | 718 | 1038 | -0.422338136 | KYNU |
| 2 | 53,850,000 | 54,000,000 | 719 | 686 | -0.28151462 | KYNU |
| 2 | 53,925,000 | 54,075,000 | 720 | 617 | -0.022439724 | KYNU |
| 2 | 54,000,000 | 54,150,000 | 721 | 582 | 0.06753139 | |
| 2 | 54,075,000 | 54,225,000 | 722 | 492 | -0.088582646 | |
| 2 | 54,150,000 | 54,300,000 | 723 | 694 | 0.116993194 | |
| 2 | 54,225,000 | 54,375,000 | 724 | 713 | -0.145279122 | |
| 2 | 54,300,000 | 54,450,000 | 725 | 727 | -3.971459278 | |
| 2 | 54,375,000 | 54,525,000 | 726 | 879 | -3.286380123 | |
| 2 | 54,450,000 | 54,600,000 | 727 | 753 | -0.994016115 | |
| 2 | 54,525,000 | 54,675,000 | 728 | 450 | -0.510442629 | |
| 2 | 54,600,000 | 54,750,000 | 729 | 451 | -0.179257772 | |
| 2 | 54,675,000 | 54,825,000 | 730 | 758 | -1.774877075 | |
| 2 | 54,750,000 | 54,900,000 | 731 | 810 | -1.644758672 | |
| 2 | 54,825,000 | 54,975,000 | 732 | 993 | 0.612291147 | |
| 2 | 54,900,000 | 55,050,000 | 733 | 988 | 0.103963256 | |
| 2 | 54,975,000 | 55,125,000 | 734 | 1080 | -0.713170681 | |
| 2 | 55,050,000 | 55,200,000 | 735 | 1117 | -0.20741202 | |
| 2 | 55,125,000 | 55,275,000 | 736 | 1163 | 0.519024056 | |
| 2 | 55,200,000 | 55,350,000 | 737 | 1300 | 0.45076707 | |
| 2 | 55,275,000 | 55,425,000 | 738 | 1074 | 0.5963499 | |
| 2 | 55,350,000 | 55,500,000 | 739 | 894 | 0.535152916 | |
| 2 | 55,425,000 | 55,575,000 | 740 | 889 | 0.169401102 | ENSBTAG00000032264 |
| 2 | 55,500,000 | 55,650,000 | 741 | 977 | -2.104494999 | ENSBTAG00000032264 |
| 2 | 55,575,000 | 55,725,000 | 742 | 1078 | -2.136451225 | |
| 2 | 55,650,000 | 55,800,000 | 743 | 847 | -0.8657708 | |
| 2 | 55,725,000 | 55,875,000 | 744 | 963 | -0.004870311 | |
| 2 | 55,800,000 | 55,950,000 | 745 | 1058 | 0.243862431 | |
| 2 | 55,875,000 | 56,025,000 | 746 | 592 | 0.260792718 | |
| 2 | 55,950,000 | 56,100,000 | 747 | 691 | 0.769031115 | |
| 2 | 56,025,000 | 56,175,000 | 748 | 923 | 1.155938175 | |
| 2 | 56,100,000 | 56,250,000 | 749 | 663 | 0.676225006 | |
| 2 | 56,175,000 | 56,325,000 | 750 | 679 | -0.453532108 | |
| 2 | 56,250,000 | 56,400,000 | 751 | 1224 | 0.029079141 | |
| 2 | 56,325,000 | 56,475,000 | 752 | 1394 | -0.396531317 | |
| 2 | 56,400,000 | 56,550,000 | 753 | 1033 | -1.347516674 | |
| 2 | 56,475,000 | 56,625,000 | 754 | 653 | -2.421869762 | |
| 2 | 56,550,000 | 56,700,000 | 755 | 805 | -2.094727378 | |
| 2 | 56,625,000 | 56,775,000 | 756 | 1021 | -0.226181467 | LRP1B |
| 2 | 56,700,000 | 56,850,000 | 757 | 894 | -0.089335043 | LRP1B |
| 2 | 56,775,000 | 56,925,000 | 758 | 1034 | -2.124289413 | LRP1B |
| 2 | 56,850,000 | 57,000,000 | 759 | 803 | -1.733607364 | LRP1B |
| 2 | 56,925,000 | 57,075,000 | 760 | 333 | -1.575471141 | LRP1B |
| 2 | 57,000,000 | 57,150,000 | 761 | 408 | 0.104318838 | LRP1B |
| 2 | 57,075,000 | 57,225,000 | 762 | 431 | 0.291998318 | |
| 2 | 57,150,000 | 57,300,000 | 763 | 420 | -0.297699662 | |
| 2 | 57,225,000 | 57,375,000 | 764 | 724 | -0.341646384 | |
| 2 | 57,300,000 | 57,450,000 | 765 | 748 | -0.879689886 | |
| 2 | 57,375,000 | 57,525,000 | 766 | 484 | -3.856144519 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 2 | 57,450,000 | 57,600,000 | 767 | 603 | -2.855741911 | |
| 2 | 57,525,000 | 57,675,000 | 768 | 992 | 0.751424579 | |
| 2 | 57,600,000 | 57,750,000 | 769 | 1362 | 0.964051151 | |
| 2 | 57,675,000 | 57,825,000 | 770 | 1524 | 0.683297701 | |
| 2 | 57,750,000 | 57,900,000 | 771 | 1703 | 1.054901383 | |
| 2 | 57,825,000 | 57,975,000 | 772 | 1754 | 1.269902341 | |
| 2 | 57,900,000 | 58,050,000 | 773 | 1332 | 1.275611394 | |
| 2 | 57,975,000 | 58,125,000 | 774 | 894 | 0.504221601 | |
| 2 | 58,050,000 | 58,200,000 | 775 | 646 | 0.141873797 | |
| 2 | 58,125,000 | 58,275,000 | 776 | 810 | 0.785950589 | |
| 2 | 58,200,000 | 58,350,000 | 777 | 895 | 0.933091744 | |
| 2 | 58,275,000 | 58,425,000 | 778 | 974 | -2.38561148 | |
| 2 | 58,350,000 | 58,500,000 | 779 | 1056 | -3.596071327 | |
| 2 | 58,425,000 | 58,575,000 | 780 | 872 | -2.818319946 | ENSBTAG00000017629 |
| 2 | 58,500,000 | 58,650,000 | 781 | 1131 | -0.412016912 | NXP2,ENSBTAG00000017629 |
| 2 | 58,575,000 | 58,725,000 | 782 | 1064 | 0.330866684 | NXP2 |
| 2 | 58,650,000 | 58,800,000 | 783 | 751 | -0.067916969 | NXP2,SPOPL |
| 2 | 58,725,000 | 58,875,000 | 784 | 426 | 0.120338613 | SPOPL |
| 2 | 58,800,000 | 58,950,000 | 785 | 155 | 0.54634303 | SPOPL |
| 2 | 58,875,000 | 59,025,000 | 786 | 429 | 0.387176446 | |
| 2 | 58,950,000 | 59,100,000 | 787 | 1067 | 0.405243876 | |
| 2 | 59,025,000 | 59,175,000 | 788 | 1508 | 0.677868274 | ENSBTAG0000001627 |
| 2 | 59,100,000 | 59,250,000 | 789 | 1262 | 1.028342201 | ENSBTAG0000001627 |
| 2 | 59,175,000 | 59,325,000 | 790 | 741 | 0.97042839 | |
| 2 | 59,250,000 | 59,400,000 | 791 | 407 | 0.39879891 | HNMT |
| 2 | 59,325,000 | 59,475,000 | 792 | 611 | 0.210601324 | HNMT |
| 2 | 59,400,000 | 59,550,000 | 793 | 898 | 0.361047573 | HNMT |
| 2 | 59,475,000 | 59,625,000 | 794 | 1247 | 0.211693211 | |
| 2 | 59,550,000 | 59,700,000 | 795 | 1331 | 0.265143621 | ENSBTAG00000039437 |
| 2 | 59,625,000 | 59,775,000 | 796 | 1260 | 0.429199544 | THSD7B,ENSBTAG00000039437 |
| 2 | 59,700,000 | 59,850,000 | 797 | 1806 | 0.356350652 | THSD7B |
| 2 | 59,775,000 | 59,925,000 | 798 | 1790 | 0.416159014 | THSD7B |
| 2 | 59,850,000 | 60,000,000 | 799 | 1109 | 0.501720707 | THSD7B |
| 2 | 59,925,000 | 60,075,000 | 800 | 672 | -0.049884509 | THSD7B |
| 2 | 60,000,000 | 60,150,000 | 801 | 768 | 0.326485609 | THSD7B |
| 2 | 60,075,000 | 60,225,000 | 802 | 1054 | 0.659849532 | THSD7B |
| 2 | 60,150,000 | 60,300,000 | 803 | 1147 | -0.314680412 | THSD7B |
| 2 | 60,225,000 | 60,375,000 | 804 | 926 | -0.6248302 | THSD7B |
| 2 | 60,300,000 | 60,450,000 | 805 | 1164 | 0.20198446 | THSD7B |
| 2 | 60,375,000 | 60,525,000 | 806 | 1657 | -0.091635192 | THSD7B |
| 2 | 60,450,000 | 60,600,000 | 807 | 1495 | 0.003753869 | THSD7B |
| 2 | 60,525,000 | 60,675,000 | 808 | 1111 | 0.607056991 | THSD7B |
| 2 | 60,600,000 | 60,750,000 | 809 | 1141 | 0.499662962 | |
| 2 | 60,675,000 | 60,825,000 | 810 | 1108 | -0.687712697 | |
| 2 | 60,750,000 | 60,900,000 | 811 | 731 | -1.736751977 | |
| 2 | 60,825,000 | 60,975,000 | 812 | 648 | -0.017776304 | |
| 2 | 60,900,000 | 61,050,000 | 813 | 807 | -4.424870864 | |
| 2 | 60,975,000 | 61,125,000 | 814 | 1030 | -3.477417575 | |
| 2 | 61,050,000 | 61,200,000 | 815 | 1128 | 0.077098958 | |
| 2 | 61,125,000 | 61,275,000 | 816 | 1159 | 0.629436494 | |
| 2 | 61,200,000 | 61,350,000 | 817 | 1222 | 0.535702769 | |
| 2 | 61,275,000 | 61,425,000 | 818 | 1123 | -1.130127138 | |
| 2 | 61,350,000 | 61,500,000 | 819 | 668 | -1.97639156 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------|
| 2 | 61,425,000 | 61,575,000 | 820 | 411 | -0.913945305 | |
| 2 | 61,500,000 | 61,650,000 | 821 | 548 | -0.052264819 | CXCR4 |
| 2 | 61,575,000 | 61,725,000 | 822 | 659 | 0.492454972 | CXCR4,DARS |
| 2 | 61,650,000 | 61,800,000 | 823 | 871 | -0.567114592 | DARS |
| 2 | 61,725,000 | 61,875,000 | 824 | 1177 | -0.778400619 | DARS,LCT,MCM6 |
| 2 | 61,800,000 | 61,950,000 | 825 | 928 | -0.853601403 | LCT,MCM6,UBXN4 |
| 2 | 61,875,000 | 62,025,000 | 826 | 615 | -1.366081324 | LCT,R3HDM1,UBXN4 |
| 2 | 61,950,000 | 62,100,000 | 827 | 872 | -0.612068178 | R3HDM1 |
| 2 | 62,025,000 | 62,175,000 | 828 | 1051 | -0.494118945 | R3HDM1 |
| 2 | 62,100,000 | 62,250,000 | 829 | 1138 | 0.164811619 | R3HDM1 |
| 2 | 62,175,000 | 62,325,000 | 830 | 855 | 0.879357686 | ZRANB3 |
| 2 | 62,250,000 | 62,400,000 | 831 | 632 | 0.878419357 | ZRANB3 |
| 2 | 62,325,000 | 62,475,000 | 832 | 590 | 1.023362666 | RAB3GAP1,ZRANB3 |
| 2 | 62,400,000 | 62,550,000 | 833 | 389 | 0.969181355 | RAB3GAP1,ZRANB3 |
| 2 | 62,475,000 | 62,625,000 | 834 | 398 | 0.930260109 | MAP3K19,RAB3GAP1 |
| 2 | 62,550,000 | 62,700,000 | 835 | 479 | 0.883449026 | ACMSD,CCNT2,MAP3K19,RAB3GAP1 |
| 2 | 62,625,000 | 62,775,000 | 836 | 504 | 0.857946571 | ACMSD,CCNT2,MAP3K19 |
| 2 | 62,700,000 | 62,850,000 | 837 | 492 | 0.597043031 | ACMSD,TMEM163 |
| 2 | 62,775,000 | 62,925,000 | 838 | 576 | 0.78833343 | TMEM163 |
| 2 | 62,850,000 | 63,000,000 | 839 | 641 | -0.128392954 | TMEM163 |
| 2 | 62,925,000 | 63,075,000 | 840 | 567 | -1.780459719 | TMEM163 |
| 2 | 63,000,000 | 63,150,000 | 841 | 624 | -0.41497352 | MGAT5,TMEM163 |
| 2 | 63,075,000 | 63,225,000 | 842 | 634 | 0.698229609 | MGAT5,TMEM163 |
| 2 | 63,150,000 | 63,300,000 | 843 | 722 | 1.082751895 | MGAT5 |
| 2 | 63,225,000 | 63,375,000 | 844 | 1015 | 1.322172463 | MGAT5 |
| 2 | 63,300,000 | 63,450,000 | 845 | 880 | 0.852543127 | MGAT5 |
| 2 | 63,375,000 | 63,525,000 | 846 | 532 | -0.548430368 | |
| 2 | 63,450,000 | 63,600,000 | 847 | 551 | -0.54769133 | |
| 2 | 63,525,000 | 63,675,000 | 848 | 549 | -0.245340362 | |
| 2 | 63,600,000 | 63,750,000 | 849 | 415 | 0.276472529 | |
| 2 | 63,675,000 | 63,825,000 | 850 | 326 | 0.245855159 | |
| 2 | 63,750,000 | 63,900,000 | 851 | 306 | 0.629655395 | |
| 2 | 63,825,000 | 63,975,000 | 852 | 535 | 1.22363376 | |
| 2 | 63,900,000 | 64,050,000 | 853 | 607 | 0.993868137 | |
| 2 | 63,975,000 | 64,125,000 | 854 | 420 | 0.54956179 | |
| 2 | 64,050,000 | 64,200,000 | 855 | 382 | 0.41301604 | |
| 2 | 64,125,000 | 64,275,000 | 856 | 524 | -1.160658616 | |
| 2 | 64,200,000 | 64,350,000 | 857 | 506 | -1.967896628 | |
| 2 | 64,275,000 | 64,425,000 | 858 | 617 | 0.089879392 | |
| 2 | 64,350,000 | 64,500,000 | 859 | 717 | -0.204435047 | |
| 2 | 64,425,000 | 64,575,000 | 860 | 707 | -0.401324538 | |
| 2 | 64,500,000 | 64,650,000 | 861 | 793 | 0.204377505 | |
| 2 | 64,575,000 | 64,725,000 | 862 | 664 | 0.949987117 | |
| 2 | 64,650,000 | 64,800,000 | 863 | 897 | 1.213372461 | |
| 2 | 64,725,000 | 64,875,000 | 864 | 1210 | 1.122597586 | |
| 2 | 64,800,000 | 64,950,000 | 865 | 776 | 0.908878716 | |
| 2 | 64,875,000 | 65,025,000 | 866 | 769 | 0.511923185 | |
| 2 | 64,950,000 | 65,100,000 | 867 | 1024 | 0.126642701 | NCKAP5 |
| 2 | 65,025,000 | 65,175,000 | 868 | 971 | 0.156494203 | NCKAP5 |
| 2 | 65,100,000 | 65,250,000 | 869 | 858 | 0.614072468 | LYPD1,NCKAP5 |
| 2 | 65,175,000 | 65,325,000 | 870 | 659 | 0.268586913 | LYPD1,ENSBTAG00000047466 |
| 2 | 65,250,000 | 65,400,000 | 871 | 715 | -0.247644284 | LYPD1,ENSBTAG00000047466 |
| 2 | 65,325,000 | 65,475,000 | 872 | 1113 | -0.702213117 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 2 | 65,400,000 | 65,550,000 | 873 | 1437 | -1.276981788 | GPR39 |
| 2 | 65,475,000 | 65,625,000 | 874 | 1245 | -2.166264775 | GPR39 |
| 2 | 65,550,000 | 65,700,000 | 875 | 756 | -1.690437257 | SLC35F5 |
| 2 | 65,625,000 | 65,775,000 | 876 | 414 | 0.378910308 | SLC35F5 |
| 2 | 65,700,000 | 65,850,000 | 877 | 448 | -2.347970487 | SLC35F5 |
| 2 | 65,775,000 | 65,925,000 | 878 | 530 | -2.5939723 | ACTR3 |
| 2 | 65,850,000 | 66,000,000 | 879 | 883 | -0.124344487 | ACTR3 |
| 2 | 65,925,000 | 66,075,000 | 880 | 1084 | 0.581054644 | |
| 2 | 66,000,000 | 66,150,000 | 881 | 1047 | -0.036625866 | |
| 2 | 66,075,000 | 66,225,000 | 882 | 1044 | 0.086769084 | |
| 2 | 66,150,000 | 66,300,000 | 883 | 797 | 0.137492144 | |
| 2 | 66,225,000 | 66,375,000 | 884 | 562 | -0.920849176 | |
| 2 | 66,300,000 | 66,450,000 | 885 | 825 | 0.211612453 | |
| 2 | 66,375,000 | 66,525,000 | 886 | 1086 | 0.488234075 | |
| 2 | 66,450,000 | 66,600,000 | 887 | 1002 | -0.843608078 | |
| 2 | 66,525,000 | 66,675,000 | 888 | 953 | -1.021441917 | |
| 2 | 66,600,000 | 66,750,000 | 889 | 672 | 0.485090462 | |
| 2 | 66,675,000 | 66,825,000 | 890 | 407 | 0.611126482 | |
| 2 | 66,750,000 | 66,900,000 | 891 | 628 | 0.39164741 | |
| 2 | 66,825,000 | 66,975,000 | 892 | 1293 | -0.373454163 | |
| 2 | 66,900,000 | 67,050,000 | 893 | 1569 | -0.355313851 | |
| 2 | 66,975,000 | 67,125,000 | 894 | 1562 | 0.744153194 | |
| 2 | 67,050,000 | 67,200,000 | 895 | 1396 | 0.986837395 | |
| 2 | 67,125,000 | 67,275,000 | 896 | 889 | 1.02753562 | |
| 2 | 67,200,000 | 67,350,000 | 897 | 761 | 1.041083432 | |
| 2 | 67,275,000 | 67,425,000 | 898 | 718 | 0.625243869 | |
| 2 | 67,350,000 | 67,500,000 | 899 | 628 | -1.337587636 | |
| 2 | 67,425,000 | 67,575,000 | 900 | 728 | -1.659094712 | |
| 2 | 67,500,000 | 67,650,000 | 901 | 565 | -1.46714179 | |
| 2 | 67,575,000 | 67,725,000 | 902 | 370 | -1.940039681 | |
| 2 | 67,650,000 | 67,800,000 | 903 | 436 | -1.19743228 | |
| 2 | 67,725,000 | 67,875,000 | 904 | 691 | -0.267190409 | |
| 2 | 67,800,000 | 67,950,000 | 905 | 887 | 0.370685518 | DPP10 |
| 2 | 67,875,000 | 68,025,000 | 906 | 663 | 0.138751076 | DPP10 |
| 2 | 67,950,000 | 68,100,000 | 907 | 519 | -0.90742303 | DPP10 |
| 2 | 68,025,000 | 68,175,000 | 908 | 771 | -2.431687845 | DPP10 |
| 2 | 68,100,000 | 68,250,000 | 909 | 824 | -3.741846153 | DPP10 |
| 2 | 68,175,000 | 68,325,000 | 910 | 787 | -4.901151953 | |
| 2 | 68,250,000 | 68,400,000 | 911 | 853 | -3.147300198 | |
| 2 | 68,325,000 | 68,475,000 | 912 | 935 | -0.694736974 | |
| 2 | 68,400,000 | 68,550,000 | 913 | 943 | 0.357857534 | ENSBTAG00000046281 |
| 2 | 68,475,000 | 68,625,000 | 914 | 1018 | 1.017713882 | ENSBTAG00000046281 |
| 2 | 68,550,000 | 68,700,000 | 915 | 1168 | 0.970788709 | |
| 2 | 68,625,000 | 68,775,000 | 916 | 1030 | -0.189868407 | |
| 2 | 68,700,000 | 68,850,000 | 917 | 772 | -2.692792546 | |
| 2 | 68,775,000 | 68,925,000 | 918 | 986 | -0.977183965 | |
| 2 | 68,850,000 | 69,000,000 | 919 | 1202 | 0.058015176 | |
| 2 | 68,925,000 | 69,075,000 | 920 | 1241 | 0.210144703 | |
| 2 | 69,000,000 | 69,150,000 | 921 | 1156 | 0.602494351 | |
| 2 | 69,075,000 | 69,225,000 | 922 | 826 | 0.898086196 | |
| 2 | 69,150,000 | 69,300,000 | 923 | 819 | 0.182631614 | |
| 2 | 69,225,000 | 69,375,000 | 924 | 1189 | 0.889056902 | |
| 2 | 69,300,000 | 69,450,000 | 925 | 1306 | 0.970512541 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 2 | 69,375,000 | 69,525,000 | 926 | 1208 | 0.684558118 | |
| 2 | 69,450,000 | 69,600,000 | 927 | 1142 | 0.716307132 | |
| 2 | 69,525,000 | 69,675,000 | 928 | 1032 | 0.957771493 | |
| 2 | 69,600,000 | 69,750,000 | 929 | 923 | 0.825856416 | |
| 2 | 69,675,000 | 69,825,000 | 930 | 694 | 0.559132593 | |
| 2 | 69,750,000 | 69,900,000 | 931 | 634 | 0.733542754 | ENSBTAG00000015077,ENSBTAG00000016785 |
| 2 | 69,825,000 | 69,975,000 | 932 | 1013 | 0.513184334 | CCDC93,ENSBTAG00000015077,ENSBTAG00000016785 |
| 2 | 69,900,000 | 70,050,000 | 933 | 1017 | 0.568438103 | CCDC93,ENSBTAG00000016785 |
| 2 | 69,975,000 | 70,125,000 | 934 | 625 | 0.828243032 | CCDC93,INSIG2 |
| 2 | 70,050,000 | 70,200,000 | 935 | 758 | 0.876990395 | INSIG2 |
| 2 | 70,125,000 | 70,275,000 | 936 | 889 | 0.543165945 | INSIG2 |
| 2 | 70,200,000 | 70,350,000 | 937 | 784 | 0.157198909 | |
| 2 | 70,275,000 | 70,425,000 | 938 | 739 | 0.427964076 | |
| 2 | 70,350,000 | 70,500,000 | 939 | 860 | 0.765903847 | |
| 2 | 70,425,000 | 70,575,000 | 940 | 955 | -0.136138085 | |
| 2 | 70,500,000 | 70,650,000 | 941 | 875 | -1.332109306 | |
| 2 | 70,575,000 | 70,725,000 | 942 | 929 | -1.540340182 | |
| 2 | 70,650,000 | 70,800,000 | 943 | 969 | -0.596753223 | |
| 2 | 70,725,000 | 70,875,000 | 944 | 644 | 0.386828613 | |
| 2 | 70,800,000 | 70,950,000 | 945 | 373 | 0.241193797 | |
| 2 | 70,875,000 | 71,025,000 | 946 | 471 | 0.198718346 | EN1 |
| 2 | 70,950,000 | 71,100,000 | 947 | 839 | 0.345717067 | EN1,MARCO |
| 2 | 71,025,000 | 71,175,000 | 948 | 1074 | 0.02388803 | MARCO |
| 2 | 71,100,000 | 71,250,000 | 949 | 942 | -0.450706775 | MARCO |
| 2 | 71,175,000 | 71,325,000 | 950 | 705 | -0.311236334 | C1QL2,ENSBTAG00000020794 |
| 2 | 71,250,000 | 71,400,000 | 951 | 476 | 0.712257868 | C1QL2,STEAP3,ENSBTAG00000020794 |
| 2 | 71,325,000 | 71,475,000 | 952 | 561 | 1.365694802 | C2orf76,STEAP3 |
| 2 | 71,400,000 | 71,550,000 | 953 | 756 | 1.514848345 | C2orf76,STEAP3 |
| 2 | 71,475,000 | 71,625,000 | 954 | 721 | 1.448856625 | C2orf76,DBI,SCTR,TMEM37 |
| 2 | 71,550,000 | 71,700,000 | 955 | 586 | 1.262887255 | C2orf76,DBI,SCTR,TMEM37 |
| 2 | 71,625,000 | 71,775,000 | 956 | 445 | 1.175331986 | CFAP221,SCTR |
| 2 | 71,700,000 | 71,850,000 | 957 | 588 | 1.351000289 | CFAP221,SCTR |
| 2 | 71,775,000 | 71,925,000 | 958 | 628 | 1.455952434 | CFAP221,TMEM177 |
| 2 | 71,850,000 | 72,000,000 | 959 | 389 | 1.3650912 | CFAP221,TMEM177 |
| 2 | 71,925,000 | 72,075,000 | 960 | 234 | 0.706999809 | PTPN4 |
| 2 | 72,000,000 | 72,150,000 | 961 | 181 | 1.123069038 | PTPN4 |
| 2 | 72,075,000 | 72,225,000 | 962 | 208 | 1.102649834 | EPB41L5,PTPN4 |
| 2 | 72,150,000 | 72,300,000 | 963 | 203 | 1.057889432 | EPB41L5 |
| 2 | 72,225,000 | 72,375,000 | 964 | 174 | 1.286498868 | EPB41L5,RALB,TMEM185B |
| 2 | 72,300,000 | 72,450,000 | 965 | 448 | 1.337639727 | EPB41L5,RALB,TMEM185B |
| 2 | 72,375,000 | 72,525,000 | 966 | 602 | 1.31009841 | INHBB,RALB |
| 2 | 72,450,000 | 72,600,000 | 967 | 523 | 1.146029256 | INHBB |
| 2 | 72,525,000 | 72,675,000 | 968 | 536 | -1.286306062 | INHBB |
| 2 | 72,600,000 | 72,750,000 | 969 | 421 | -3.753471794 | |
| 2 | 72,675,000 | 72,825,000 | 970 | 468 | -3.448146807 | |
| 2 | 72,750,000 | 72,900,000 | 971 | 509 | -1.12537984 | |
| 2 | 72,825,000 | 72,975,000 | 972 | 362 | 0.947574883 | |
| 2 | 72,900,000 | 73,050,000 | 973 | 435 | 0.892534229 | GLI2 |
| 2 | 72,975,000 | 73,125,000 | 974 | 412 | 1.038578029 | GLI2 |
| 2 | 73,050,000 | 73,200,000 | 975 | 333 | 1.064776159 | GLI2 |
| 2 | 73,125,000 | 73,275,000 | 976 | 575 | 0.5607939 | GLI2 |
| 2 | 73,200,000 | 73,350,000 | 977 | 883 | -2.046598618 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------|
| 2 | 73,275,000 | 73,425,000 | 978 | 861 | -3.099851789 | TFCP2L1 |
| 2 | 73,350,000 | 73,500,000 | 979 | 627 | 0.158579021 | CLASP1,TFCP2L1 |
| 2 | 73,425,000 | 73,575,000 | 980 | 536 | 0.163401461 | CLASP1,TFCP2L1 |
| 2 | 73,500,000 | 73,650,000 | 981 | 850 | 0.127715845 | CLASP1 |
| 2 | 73,575,000 | 73,725,000 | 982 | 829 | 0.346938789 | CLASP1 |
| 2 | 73,650,000 | 73,800,000 | 983 | 488 | 0.367602015 | CLASP1 |
| 2 | 73,725,000 | 73,875,000 | 984 | 418 | 0.439038852 | NIFK,TSN |
| 2 | 73,800,000 | 73,950,000 | 985 | 737 | -1.303648589 | NIFK,TSN |
| 2 | 73,875,000 | 74,025,000 | 986 | 746 | -1.68694475 | |
| 2 | 73,950,000 | 74,100,000 | 987 | 580 | -0.671707958 | ENSBTAG00000026822 |
| 2 | 74,025,000 | 74,175,000 | 988 | 714 | -0.346358835 | ENSBTAG00000026822 |
| 2 | 74,100,000 | 74,250,000 | 989 | 921 | -2.474027005 | |
| 2 | 74,175,000 | 74,325,000 | 990 | 1005 | -2.124481489 | |
| 2 | 74,250,000 | 74,400,000 | 991 | 1028 | 0.447731449 | |
| 2 | 74,325,000 | 74,475,000 | 992 | 1120 | -1.319963554 | |
| 2 | 74,400,000 | 74,550,000 | 993 | 1060 | -2.698844848 | |
| 2 | 74,475,000 | 74,625,000 | 994 | 1052 | -2.217921162 | |
| 2 | 74,550,000 | 74,700,000 | 995 | 737 | -1.005855983 | ENSBTAG00000031918 |
| 2 | 74,625,000 | 74,775,000 | 996 | 519 | 0.492327381 | ENSBTAG00000031918 |
| 2 | 74,700,000 | 74,850,000 | 997 | 496 | 0.421544984 | |
| 2 | 74,775,000 | 74,925,000 | 998 | 741 | 0.532425155 | |
| 2 | 74,850,000 | 75,000,000 | 999 | 1091 | -0.944550587 | |
| 2 | 74,925,000 | 75,075,000 | 1000 | 1175 | -0.905620653 | |
| 2 | 75,000,000 | 75,150,000 | 1001 | 1356 | 0.074055248 | |
| 2 | 75,075,000 | 75,225,000 | 1002 | 1223 | 0.124083512 | |
| 2 | 75,150,000 | 75,300,000 | 1003 | 827 | 0.393977164 | |
| 2 | 75,225,000 | 75,375,000 | 1004 | 683 | 0.637062679 | |
| 2 | 75,300,000 | 75,450,000 | 1005 | 1005 | 0.884646861 | ENSBTAG00000047681 |
| 2 | 75,375,000 | 75,525,000 | 1006 | 1244 | 1.037631707 | ENSBTAG00000047681 |
| 2 | 75,450,000 | 75,600,000 | 1007 | 786 | 0.572540328 | |
| 2 | 75,525,000 | 75,675,000 | 1008 | 823 | -2.766101399 | |
| 2 | 75,600,000 | 75,750,000 | 1009 | 1610 | -1.478554585 | |
| 2 | 75,675,000 | 75,825,000 | 1010 | 1864 | -0.45322674 | |
| 2 | 75,750,000 | 75,900,000 | 1011 | 1243 | -0.593710693 | |
| 2 | 75,825,000 | 75,975,000 | 1012 | 958 | 0.594516247 | |
| 2 | 75,900,000 | 76,050,000 | 1013 | 1354 | 0.585435437 | |
| 2 | 75,975,000 | 76,125,000 | 1014 | 1162 | -0.319261772 | |
| 2 | 76,050,000 | 76,200,000 | 1015 | 1079 | -1.764927215 | |
| 2 | 76,125,000 | 76,275,000 | 1016 | 1426 | -2.149169704 | |
| 2 | 76,200,000 | 76,350,000 | 1017 | 1325 | -1.459849341 | |
| 2 | 76,275,000 | 76,425,000 | 1018 | 1055 | -0.170547088 | |
| 2 | 76,350,000 | 76,500,000 | 1019 | 809 | 0.005587834 | |
| 2 | 76,425,000 | 76,575,000 | 1020 | 792 | 0.076096301 | |
| 2 | 76,500,000 | 76,650,000 | 1021 | 1104 | 0.159282083 | |
| 2 | 76,575,000 | 76,725,000 | 1022 | 1370 | 0.329820973 | |
| 2 | 76,650,000 | 76,800,000 | 1023 | 1218 | -0.111903107 | CNTNAP5 |
| 2 | 76,725,000 | 76,875,000 | 1024 | 1043 | -0.524542904 | CNTNAP5 |
| 2 | 76,800,000 | 76,950,000 | 1025 | 869 | 0.310326291 | CNTNAP5 |
| 2 | 76,875,000 | 77,025,000 | 1026 | 667 | -0.10456094 | CNTNAP5 |
| 2 | 76,950,000 | 77,100,000 | 1027 | 704 | -1.268140349 | CNTNAP5 |
| 2 | 77,025,000 | 77,175,000 | 1028 | 719 | -0.528194015 | CNTNAP5 |
| 2 | 77,100,000 | 77,250,000 | 1029 | 845 | -0.196806158 | CNTNAP5 |
| 2 | 77,175,000 | 77,325,000 | 1030 | 721 | 0.526388443 | CNTNAP5 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------|
| 2 | 77,250,000 | 77,400,000 | 1031 | 884 | 1.250514796 | CNTNAP5 |
| 2 | 77,325,000 | 77,475,000 | 1032 | 1166 | 1.076852066 | |
| 2 | 77,400,000 | 77,550,000 | 1033 | 882 | 0.990303796 | |
| 2 | 77,475,000 | 77,625,000 | 1034 | 993 | 1.078645409 | |
| 2 | 77,550,000 | 77,700,000 | 1035 | 1078 | 1.06857246 | |
| 2 | 77,625,000 | 77,775,000 | 1036 | 948 | 0.582433818 | |
| 2 | 77,700,000 | 77,850,000 | 1037 | 770 | -0.944528248 | |
| 2 | 77,775,000 | 77,925,000 | 1038 | 686 | -0.4204333 | |
| 2 | 77,850,000 | 78,000,000 | 1039 | 608 | 0.959121367 | |
| 2 | 77,925,000 | 78,075,000 | 1040 | 609 | -2.210570171 | |
| 2 | 78,000,000 | 78,150,000 | 1041 | 622 | -2.775323663 | |
| 2 | 78,075,000 | 78,225,000 | 1042 | 744 | 0.476909052 | |
| 2 | 78,150,000 | 78,300,000 | 1043 | 938 | 0.612527065 | |
| 2 | 78,225,000 | 78,375,000 | 1044 | 943 | 0.683045083 | |
| 2 | 78,300,000 | 78,450,000 | 1045 | 733 | 0.57672395 | |
| 2 | 78,375,000 | 78,525,000 | 1046 | 411 | 0.470434387 | |
| 2 | 78,450,000 | 78,600,000 | 1047 | 653 | -0.0983029 | |
| 2 | 78,525,000 | 78,675,000 | 1048 | 1110 | 0.021967474 | |
| 2 | 78,600,000 | 78,750,000 | 1049 | 1091 | -1.94072236 | |
| 2 | 78,675,000 | 78,825,000 | 1050 | 724 | -2.776688549 | |
| 2 | 78,750,000 | 78,900,000 | 1051 | 979 | 0.962005922 | |
| 2 | 78,825,000 | 78,975,000 | 1052 | 1355 | 1.072161508 | |
| 2 | 78,900,000 | 79,050,000 | 1053 | 1211 | 0.898532974 | |
| 2 | 78,975,000 | 79,125,000 | 1054 | 1097 | 0.679112954 | |
| 2 | 79,050,000 | 79,200,000 | 1055 | 976 | 0.363712499 | |
| 2 | 79,125,000 | 79,275,000 | 1056 | 942 | -0.26754344 | GPC |
| 2 | 79,200,000 | 79,350,000 | 1057 | 982 | -1.254923476 | GPC |
| 2 | 79,275,000 | 79,425,000 | 1058 | 774 | -3.083753852 | GPC |
| 2 | 79,350,000 | 79,500,000 | 1059 | 783 | -5.655613513 | |
| 2 | 79,425,000 | 79,575,000 | 1060 | 769 | -3.946238453 | |
| 2 | 79,500,000 | 79,650,000 | 1061 | 395 | 1.123591861 | |
| 2 | 79,575,000 | 79,725,000 | 1062 | 237 | 0.629283726 | |
| 2 | 79,650,000 | 79,800,000 | 1063 | 261 | 0.448133877 | GLS |
| 2 | 79,725,000 | 79,875,000 | 1064 | 313 | 0.486975885 | GLS |
| 2 | 79,800,000 | 79,950,000 | 1065 | 373 | 0.421188825 | GLS,STAT1 |
| 2 | 79,875,000 | 80,025,000 | 1066 | 575 | 0.868454583 | STAT1,STAT4 |
| 2 | 79,950,000 | 80,100,000 | 1067 | 670 | 0.869476268 | STAT1,STAT4 |
| 2 | 80,025,000 | 80,175,000 | 1068 | 764 | 0.366348149 | MYO1B,STAT4 |
| 2 | 80,100,000 | 80,250,000 | 1069 | 852 | -0.097746017 | MYO1B |
| 2 | 80,175,000 | 80,325,000 | 1070 | 615 | -0.355427254 | MYO1B |
| 2 | 80,250,000 | 80,400,000 | 1071 | 574 | 0.839511614 | MYO1B |
| 2 | 80,325,000 | 80,475,000 | 1072 | 685 | 1.29662912 | MYO1B |
| 2 | 80,400,000 | 80,550,000 | 1073 | 665 | 0.943768135 | |
| 2 | 80,475,000 | 80,625,000 | 1074 | 485 | 0.440098195 | |
| 2 | 80,550,000 | 80,700,000 | 1075 | 635 | -0.091700042 | NABP1 |
| 2 | 80,625,000 | 80,775,000 | 1076 | 911 | 0.057387323 | NABP1 |
| 2 | 80,700,000 | 80,850,000 | 1077 | 893 | 0.279909401 | |
| 2 | 80,775,000 | 80,925,000 | 1078 | 778 | 0.567487975 | SDPR |
| 2 | 80,850,000 | 81,000,000 | 1079 | 598 | 1.205451806 | SDPR,TMEFF2 |
| 2 | 80,925,000 | 81,075,000 | 1080 | 539 | 1.209322844 | TMEFF2 |
| 2 | 81,000,000 | 81,150,000 | 1081 | 661 | 0.401539079 | TMEFF2 |
| 2 | 81,075,000 | 81,225,000 | 1082 | 835 | -0.140288593 | TMEFF2 |
| 2 | 81,150,000 | 81,300,000 | 1083 | 799 | 0.294208122 | TMEFF2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 2 | 81,225,000 | 81,375,000 | 1084 | 721 | 0.150508405 | TMEFF2 |
| 2 | 81,300,000 | 81,450,000 | 1085 | 671 | 0.565996934 | |
| 2 | 81,375,000 | 81,525,000 | 1086 | 554 | 0.046809599 | |
| 2 | 81,450,000 | 81,600,000 | 1087 | 472 | -0.957756538 | |
| 2 | 81,525,000 | 81,675,000 | 1088 | 390 | 0.127695169 | ENSBTAG00000047783 |
| 2 | 81,600,000 | 81,750,000 | 1089 | 398 | 0.287283692 | ENSBTAG00000047783 |
| 2 | 81,675,000 | 81,825,000 | 1090 | 544 | -0.658399848 | |
| 2 | 81,750,000 | 81,900,000 | 1091 | 860 | 0.711770767 | |
| 2 | 81,825,000 | 81,975,000 | 1092 | 871 | 0.852543561 | |
| 2 | 81,900,000 | 82,050,000 | 1093 | 656 | 0.655772355 | |
| 2 | 81,975,000 | 82,125,000 | 1094 | 1216 | 0.400820918 | |
| 2 | 82,050,000 | 82,200,000 | 1095 | 1355 | -2.192037418 | |
| 2 | 82,125,000 | 82,275,000 | 1096 | 1118 | -1.718050377 | |
| 2 | 82,200,000 | 82,350,000 | 1097 | 1178 | -0.267032724 | |
| 2 | 82,275,000 | 82,425,000 | 1098 | 1266 | -0.452885359 | |
| 2 | 82,350,000 | 82,500,000 | 1099 | 1203 | -0.143542198 | |
| 2 | 82,425,000 | 82,575,000 | 1100 | 1133 | -0.700264171 | |
| 2 | 82,500,000 | 82,650,000 | 1101 | 1194 | -1.259942509 | |
| 2 | 82,575,000 | 82,725,000 | 1102 | 1088 | -1.737366717 | |
| 2 | 82,650,000 | 82,800,000 | 1103 | 1072 | -0.634689242 | |
| 2 | 82,725,000 | 82,875,000 | 1104 | 800 | 0.457247758 | |
| 2 | 82,800,000 | 82,950,000 | 1105 | 760 | 0.126785681 | ENSBTAG00000037816 |
| 2 | 82,875,000 | 83,025,000 | 1106 | 862 | 0.429214316 | ENSBTAG00000037816 |
| 2 | 82,950,000 | 83,100,000 | 1107 | 1254 | -0.894595218 | |
| 2 | 83,025,000 | 83,175,000 | 1108 | 1484 | -0.614905517 | |
| 2 | 83,100,000 | 83,250,000 | 1109 | 1237 | 0.871349874 | |
| 2 | 83,175,000 | 83,325,000 | 1110 | 1471 | 0.248808625 | |
| 2 | 83,250,000 | 83,400,000 | 1111 | 1495 | -0.28202057 | |
| 2 | 83,325,000 | 83,475,000 | 1112 | 1206 | -0.319822249 | |
| 2 | 83,400,000 | 83,550,000 | 1113 | 842 | -0.644031489 | |
| 2 | 83,475,000 | 83,625,000 | 1114 | 723 | -2.370666336 | |
| 2 | 83,550,000 | 83,700,000 | 1115 | 596 | -2.718455543 | |
| 2 | 83,625,000 | 83,775,000 | 1116 | 308 | -0.782951553 | |
| 2 | 83,700,000 | 83,850,000 | 1117 | 341 | -1.259704022 | |
| 2 | 83,775,000 | 83,925,000 | 1118 | 397 | 0.10724459 | |
| 2 | 83,850,000 | 84,000,000 | 1119 | 466 | 0.891780262 | |
| 2 | 83,925,000 | 84,075,000 | 1120 | 654 | 0.086067653 | |
| 2 | 84,000,000 | 84,150,000 | 1121 | 809 | -0.096536352 | |
| 2 | 84,075,000 | 84,225,000 | 1122 | 491 | 0.035330903 | |
| 2 | 84,150,000 | 84,300,000 | 1123 | 258 | 0.175841361 | |
| 2 | 84,225,000 | 84,375,000 | 1124 | 335 | -0.181736193 | |
| 2 | 84,300,000 | 84,450,000 | 1125 | 468 | 0.509774444 | |
| 2 | 84,375,000 | 84,525,000 | 1126 | 588 | 0.559629836 | |
| 2 | 84,450,000 | 84,600,000 | 1127 | 485 | -0.858463609 | |
| 2 | 84,525,000 | 84,675,000 | 1128 | 505 | -0.966623339 | |
| 2 | 84,600,000 | 84,750,000 | 1129 | 443 | -0.224498946 | SLC39A10 |
| 2 | 84,675,000 | 84,825,000 | 1130 | 536 | 0.609377496 | DNAH7,SLC39A10 |
| 2 | 84,750,000 | 84,900,000 | 1131 | 780 | 0.711274145 | DNAH7,SLC39A10 |
| 2 | 84,825,000 | 84,975,000 | 1132 | 1118 | 1.14437809 | DNAH7 |
| 2 | 84,900,000 | 85,050,000 | 1133 | 1082 | 0.772081682 | DNAH7 |
| 2 | 84,975,000 | 85,125,000 | 1134 | 533 | 0.120188392 | DNAH7,STK17B |
| 2 | 85,050,000 | 85,200,000 | 1135 | 441 | -0.435994988 | HECW2,STK17B,ENSBTAG00000047862 |
| 2 | 85,125,000 | 85,275,000 | 1136 | 487 | -0.174564722 | HECW2,ENSBTAG00000047862 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 2 | 85,200,000 | 85,350,000 | 1137 | 496 | 0.88052755 | HECW2 |
| 2 | 85,275,000 | 85,425,000 | 1138 | 980 | -1.446854126 | HECW2 |
| 2 | 85,350,000 | 85,500,000 | 1139 | 964 | -2.429121779 | |
| 2 | 85,425,000 | 85,575,000 | 1140 | 724 | -1.856846927 | |
| 2 | 85,500,000 | 85,650,000 | 1141 | 631 | -1.097734441 | CCDC150 |
| 2 | 85,575,000 | 85,725,000 | 1142 | 422 | 1.150362755 | CCDC150 |
| 2 | 85,650,000 | 85,800,000 | 1143 | 405 | 1.234035406 | CCDC150,GTF3C3,ENSBTAG00000047452 |
| 2 | 85,725,000 | 85,875,000 | 1144 | 282 | 0.751295597 | CCDC150,GTF3C3,PGAP1,ENSBTAG00000047452 |
| 2 | 85,800,000 | 85,950,000 | 1145 | 402 | 0.5296374 | PGAP1,ENSBTAG00000047452 |
| 2 | 85,875,000 | 86,025,000 | 1146 | 626 | -1.226279461 | ANKRD44,PGAP1 |
| 2 | 85,950,000 | 86,100,000 | 1147 | 844 | -1.056930593 | ANKRD44 |
| 2 | 86,025,000 | 86,175,000 | 1148 | 1045 | -0.514386993 | ANKRD44 |
| 2 | 86,100,000 | 86,250,000 | 1149 | 978 | 0.071499463 | ANKRD44 |
| 2 | 86,175,000 | 86,325,000 | 1150 | 673 | 0.914580853 | |
| 2 | 86,250,000 | 86,400,000 | 1151 | 423 | 0.472262987 | SF3B1,ENSBTAG00000012171 |
| 2 | 86,325,000 | 86,475,000 | 1152 | 338 | 1.30000525 | COQ10B,HSPD1,HSPE1,MOBKL3,SF3B1,ENSBTAG00000012171 |
| 2 | 86,400,000 | 86,550,000 | 1153 | 456 | 1.384769703 | COQ10B,HSPD1,HSPE1,MOBKL3,RFTN2 |
| 2 | 86,475,000 | 86,625,000 | 1154 | 457 | 1.290260182 | MARS2,MOBKL3,RFTN2 |
| 2 | 86,550,000 | 86,700,000 | 1155 | 347 | 1.138599996 | BOLL,MARS2,RFTN2 |
| 2 | 86,625,000 | 86,775,000 | 1156 | 375 | 0.964354186 | BOLL,PLCL1 |
| 2 | 86,700,000 | 86,850,000 | 1157 | 562 | 1.266420073 | PLCL1 |
| 2 | 86,775,000 | 86,925,000 | 1158 | 556 | 1.268437978 | PLCL1 |
| 2 | 86,850,000 | 87,000,000 | 1159 | 481 | 0.917025172 | PLCL1 |
| 2 | 86,925,000 | 87,075,000 | 1160 | 725 | 0.835858111 | PLCL1 |
| 2 | 87,000,000 | 87,150,000 | 1161 | 762 | 0.75861471 | PLCL1 |
| 2 | 87,075,000 | 87,225,000 | 1162 | 530 | -0.072389381 | PLCL1 |
| 2 | 87,150,000 | 87,300,000 | 1163 | 379 | -0.756580793 | |
| 2 | 87,225,000 | 87,375,000 | 1164 | 281 | -0.644686212 | |
| 2 | 87,300,000 | 87,450,000 | 1165 | 275 | -0.42265252 | |
| 2 | 87,375,000 | 87,525,000 | 1166 | 617 | 0.556205133 | |
| 2 | 87,450,000 | 87,600,000 | 1167 | 770 | 0.259036457 | |
| 2 | 87,525,000 | 87,675,000 | 1168 | 626 | -1.229348506 | |
| 2 | 87,600,000 | 87,750,000 | 1169 | 598 | -1.649119155 | |
| 2 | 87,675,000 | 87,825,000 | 1170 | 437 | -1.653646402 | |
| 2 | 87,750,000 | 87,900,000 | 1171 | 414 | -0.585444446 | |
| 2 | 87,825,000 | 87,975,000 | 1172 | 562 | -0.3352811 | |
| 2 | 87,900,000 | 88,050,000 | 1173 | 699 | 0.320031382 | |
| 2 | 87,975,000 | 88,125,000 | 1174 | 577 | 0.897389156 | |
| 2 | 88,050,000 | 88,200,000 | 1175 | 319 | 0.968342814 | |
| 2 | 88,125,000 | 88,275,000 | 1176 | 487 | 0.900986391 | SATB2 |
| 2 | 88,200,000 | 88,350,000 | 1177 | 468 | 0.617722983 | SATB2 |
| 2 | 88,275,000 | 88,425,000 | 1178 | 272 | 0.148343871 | SATB2 |
| 2 | 88,350,000 | 88,500,000 | 1179 | 370 | 0.557317854 | SATB2 |
| 2 | 88,425,000 | 88,575,000 | 1180 | 638 | 1.185347156 | SATB2 |
| 2 | 88,500,000 | 88,650,000 | 1181 | 891 | 1.487191207 | |
| 2 | 88,575,000 | 88,725,000 | 1182 | 695 | 1.142218801 | |
| 2 | 88,650,000 | 88,800,000 | 1183 | 308 | 0.129905192 | |
| 2 | 88,725,000 | 88,875,000 | 1184 | 196 | -1.739075519 | FTCDNL1 |
| 2 | 88,800,000 | 88,950,000 | 1185 | 213 | -1.920393663 | C2orf47,C2orf69,FTCDNL1,TYW5 |
| 2 | 88,875,000 | 89,025,000 | 1186 | 223 | -0.411865743 | C2orf47,C2orf69,TYW5 |
| 2 | 88,950,000 | 89,100,000 | 1187 | 386 | -1.47842442 | |
| 2 | 89,025,000 | 89,175,000 | 1188 | 654 | -2.272822468 | ENSBTAG00000024003 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 2 | 89,100,000 | 89,250,000 | 1189 | 598 | -2.041722499 | SPATS2L,ENSBTAG00000024003 |
| 2 | 89,175,000 | 89,325,000 | 1190 | 329 | -0.596177684 | SPATS2L |
| 2 | 89,250,000 | 89,400,000 | 1191 | 442 | 0.318199338 | SPATS2L |
| 2 | 89,325,000 | 89,475,000 | 1192 | 631 | 0.974250055 | KCTD18,SPATS2L |
| 2 | 89,400,000 | 89,550,000 | 1193 | 868 | 1.057092743 | AOX1,KCTD18,SGOL2,SPATS2L |
| 2 | 89,475,000 | 89,625,000 | 1194 | 1367 | 0.897067561 | AOX1,SGOL2 |
| 2 | 89,550,000 | 89,700,000 | 1195 | 1560 | 0.680174616 | AOX1,AOX4 |
| 2 | 89,625,000 | 89,775,000 | 1196 | 1643 | 0.405475125 | AOX4 |
| 2 | 89,700,000 | 89,850,000 | 1197 | 1388 | 0.483265236 | AOX4,ENSBTAG00000026812 |
| 2 | 89,775,000 | 89,925,000 | 1198 | 766 | 0.589955996 | BZW1,CLK1,ENSBTAG00000026812 |
| 2 | 89,850,000 | 90,000,000 | 1199 | 496 | -1.978128848 | BZW1,CLK1,NIF3L1,ORC2,PPIL3,ENSBTAG00000026812 |
| 2 | 89,925,000 | 90,075,000 | 1200 | 354 | -2.58537946 | CLK1,FAM126B,NIF3L1,ORC2,PPIL3 |
| 2 | 90,000,000 | 90,150,000 | 1201 | 352 | -0.159688648 | FAM126B,FLIP,NDUFB3,ORC2,ENSBTAG00000012763 |
| 2 | 90,075,000 | 90,225,000 | 1202 | 449 | 0.614467588 | FAM126B,FLIP,NDUFB3,ENSBTAG00000003731,ENSBTAG00000012763 |
| 2 | 90,150,000 | 90,300,000 | 1203 | 659 | 0.957037404 | CASP8,FLIP,ENSBTAG00000003731 |
| 2 | 90,225,000 | 90,375,000 | 1204 | 900 | 0.302230745 | ALS2CR12,CASP8,TRAK2 |
| 2 | 90,300,000 | 90,450,000 | 1205 | 977 | 0.387092383 | ALS2CR12,CASP8,STRADB,TRAK2 |
| 2 | 90,375,000 | 90,525,000 | 1206 | 957 | 0.76043718 | ALS2CR11,STRADB,TRAK2 |
| 2 | 90,450,000 | 90,600,000 | 1207 | 1078 | -4.307630639 | ALS2CR11,STRADB,TMEM237 |
| 2 | 90,525,000 | 90,675,000 | 1208 | 798 | -5.715712378 | ALS2,ALS2CR11,TMEM237 |
| 2 | 90,600,000 | 90,750,000 | 1209 | 363 | -0.192909391 | ALS2,TMEM237 |
| 2 | 90,675,000 | 90,825,000 | 1210 | 613 | 0.215862908 | ALS2 |
| 2 | 90,750,000 | 90,900,000 | 1211 | 601 | 0.311662817 | |
| 2 | 90,825,000 | 90,975,000 | 1212 | 375 | 0.366525295 | |
| 2 | 90,900,000 | 91,050,000 | 1213 | 320 | 0.132193487 | FZD7,ENSBTAG00000034192 |
| 2 | 90,975,000 | 91,125,000 | 1214 | 332 | -2.327684251 | FZD7,ENSBTAG00000034192 |
| 2 | 91,050,000 | 91,200,000 | 1215 | 374 | -2.672472062 | SUMO1,ENSBTAG00000034192 |
| 2 | 91,125,000 | 91,275,000 | 1216 | 276 | -1.126269024 | NOP58,SUMO1,ENSBTAG00000034192 |
| 2 | 91,200,000 | 91,350,000 | 1217 | 240 | 0.245097118 | NOP58 |
| 2 | 91,275,000 | 91,425,000 | 1218 | 322 | -1.706675918 | BMPRII |
| 2 | 91,350,000 | 91,500,000 | 1219 | 419 | -4.153932659 | ALS2CR13,BMPRII |
| 2 | 91,425,000 | 91,575,000 | 1220 | 356 | -3.95570236 | ALS2CR13,BMPRII,ICA1L |
| 2 | 91,500,000 | 91,650,000 | 1221 | 324 | -1.148575054 | ALS2CR13,ICA1L,WDR12 |
| 2 | 91,575,000 | 91,725,000 | 1222 | 328 | 0.037197541 | CARF,ICA1L,WDR12 |
| 2 | 91,650,000 | 91,800,000 | 1223 | 391 | 1.383585319 | CARF,NBEAL1 |
| 2 | 91,725,000 | 91,875,000 | 1224 | 469 | 1.313091708 | CARF,NBEAL1 |
| 2 | 91,800,000 | 91,950,000 | 1225 | 308 | 0.729355649 | CYP20A1,NBEAL1 |
| 2 | 91,875,000 | 92,025,000 | 1226 | 219 | -0.405182775 | ABI2,CYP20A1,NBEAL1 |
| 2 | 91,950,000 | 92,100,000 | 1227 | 230 | -0.225249895 | ABI2,RAPH1 |
| 2 | 92,025,000 | 92,175,000 | 1228 | 422 | 0.482245702 | ABI2,RAPH1 |
| 2 | 92,100,000 | 92,250,000 | 1229 | 637 | -1.307186841 | RAPH1 |
| 2 | 92,175,000 | 92,325,000 | 1230 | 757 | -1.763059378 | |
| 2 | 92,250,000 | 92,400,000 | 1231 | 722 | -0.678258386 | CD28 |
| 2 | 92,325,000 | 92,475,000 | 1232 | 606 | -2.698676688 | CD28 |
| 2 | 92,400,000 | 92,550,000 | 1233 | 452 | -4.010412312 | CTLA4 |
| 2 | 92,475,000 | 92,625,000 | 1234 | 407 | -1.557073049 | CTLA4,ICOS |
| 2 | 92,550,000 | 92,700,000 | 1235 | 472 | -1.094306489 | ICOS |
| 2 | 92,625,000 | 92,775,000 | 1236 | 475 | 0.7215734 | |
| 2 | 92,700,000 | 92,850,000 | 1237 | 596 | 0.591234253 | |
| 2 | 92,775,000 | 92,925,000 | 1238 | 792 | -1.796327345 | |
| 2 | 92,850,000 | 93,000,000 | 1239 | 894 | -2.912063032 | ENSBTAG00000040367 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 2 | 92,925,000 | 93,075,000 | 1240 | 1200 | -1.960857806 | ENSBTAG00000040367 |
| 2 | 93,000,000 | 93,150,000 | 1241 | 1212 | -0.986926663 | |
| 2 | 93,075,000 | 93,225,000 | 1242 | 903 | 0.033162934 | |
| 2 | 93,150,000 | 93,300,000 | 1243 | 798 | 0.690514418 | |
| 2 | 93,225,000 | 93,375,000 | 1244 | 630 | 0.798834321 | |
| 2 | 93,300,000 | 93,450,000 | 1245 | 625 | -0.565174584 | |
| 2 | 93,375,000 | 93,525,000 | 1246 | 651 | -1.028140926 | |
| 2 | 93,450,000 | 93,600,000 | 1247 | 678 | 0.074180211 | |
| 2 | 93,525,000 | 93,675,000 | 1248 | 880 | -0.155267916 | |
| 2 | 93,600,000 | 93,750,000 | 1249 | 732 | -0.167857242 | ENSBTAG00000046521 |
| 2 | 93,675,000 | 93,825,000 | 1250 | 699 | -0.93442771 | ENSBTAG00000046521 |
| 2 | 93,750,000 | 93,900,000 | 1251 | 1007 | -1.05941629 | PARD3B |
| 2 | 93,825,000 | 93,975,000 | 1252 | 1054 | -2.294300101 | PARD3B |
| 2 | 93,900,000 | 94,050,000 | 1253 | 1056 | -3.305058111 | PARD3B |
| 2 | 93,975,000 | 94,125,000 | 1254 | 947 | -1.759950112 | |
| 2 | 94,050,000 | 94,200,000 | 1255 | 997 | -1.036012334 | |
| 2 | 94,125,000 | 94,275,000 | 1256 | 1060 | -1.474776323 | ENSBTAG00000046783 |
| 2 | 94,200,000 | 94,350,000 | 1257 | 953 | -1.051439221 | ENSBTAG00000046783 |
| 2 | 94,275,000 | 94,425,000 | 1258 | 919 | -2.074443152 | ENSBTAG00000046029 |
| 2 | 94,350,000 | 94,500,000 | 1259 | 734 | -2.898657637 | NRP2,ENSBTAG00000046029 |
| 2 | 94,425,000 | 94,575,000 | 1260 | 610 | -0.970570871 | NRP2 |
| 2 | 94,500,000 | 94,650,000 | 1261 | 747 | -0.069536114 | NRP2 |
| 2 | 94,575,000 | 94,725,000 | 1262 | 794 | -0.251255941 | |
| 2 | 94,650,000 | 94,800,000 | 1263 | 529 | -0.163954192 | INO80D |
| 2 | 94,725,000 | 94,875,000 | 1264 | 404 | -2.371305371 | INO80D |
| 2 | 94,800,000 | 94,950,000 | 1265 | 461 | -1.895670867 | EEF1B,GPR1,INO80D,NDUFS1 |
| 2 | 94,875,000 | 95,025,000 | 1266 | 494 | 0.59734963 | EEF1B,GPR1,NDUFS1 |
| 2 | 94,950,000 | 95,100,000 | 1267 | 570 | 0.832886563 | ZDBF2 |
| 2 | 95,025,000 | 95,175,000 | 1268 | 673 | -0.033727694 | ADAM23,ZDBF2 |
| 2 | 95,100,000 | 95,250,000 | 1269 | 888 | 0.010053901 | ADAM23 |
| 2 | 95,175,000 | 95,325,000 | 1270 | 1022 | 0.636528546 | ADAM23 |
| 2 | 95,250,000 | 95,400,000 | 1271 | 984 | 0.720120673 | ADAM23,DYTN |
| 2 | 95,325,000 | 95,475,000 | 1272 | 981 | 0.696193526 | ADAM23,DYTN |
| 2 | 95,400,000 | 95,550,000 | 1273 | 1155 | 0.323601232 | DYTN,FASTKD2,MDH1B |
| 2 | 95,475,000 | 95,625,000 | 1274 | 1046 | -0.708980403 | FASTKD2,MDH1B |
| 2 | 95,550,000 | 95,700,000 | 1275 | 837 | -0.729424422 | CPO |
| 2 | 95,625,000 | 95,775,000 | 1276 | 863 | -0.03977625 | CPO |
| 2 | 95,700,000 | 95,850,000 | 1277 | 801 | 0.349873976 | CPO,KLF7 |
| 2 | 95,775,000 | 95,925,000 | 1278 | 706 | 0.627201734 | KLF7 |
| 2 | 95,850,000 | 96,000,000 | 1279 | 618 | 0.236864593 | KLF7 |
| 2 | 95,925,000 | 96,075,000 | 1280 | 804 | -0.479868574 | |
| 2 | 96,000,000 | 96,150,000 | 1281 | 1104 | -0.156249802 | |
| 2 | 96,075,000 | 96,225,000 | 1282 | 854 | 0.256972365 | |
| 2 | 96,150,000 | 96,300,000 | 1283 | 553 | 0.310723672 | CREB1 |
| 2 | 96,225,000 | 96,375,000 | 1284 | 571 | 0.139600272 | CREB1,METTL21A |
| 2 | 96,300,000 | 96,450,000 | 1285 | 414 | 0.076481932 | CCNYL1,CREB1,METTL21A |
| 2 | 96,375,000 | 96,525,000 | 1286 | 256 | 0.085444502 | CCNYL1,FZD5 |
| 2 | 96,450,000 | 96,600,000 | 1287 | 335 | -0.407420418 | CCNYL1,FZD5 |
| 2 | 96,525,000 | 96,675,000 | 1288 | 419 | -0.23624714 | PLEKHM3 |
| 2 | 96,600,000 | 96,750,000 | 1289 | 750 | 0.057226212 | PLEKHM3 |
| 2 | 96,675,000 | 96,825,000 | 1290 | 1072 | -0.093718422 | PLEKHM3,ENSBTAG00000014094 |
| 2 | 96,750,000 | 96,900,000 | 1291 | 1267 | -1.330766821 | C2H2orf80,CRYGB,CRYGC,CRYGD,ENSBTAG00000014094,ENSBTAG00000046832 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 96,825,000 | 96,975,000 | 1292 | 1439 | -1.698599463 | C2H2orf80,CRYGB,CRYGC,CRYGD,IDH1,ENSBTAG0000046832 |
| 2 | 96,900,000 | 97,050,000 | 1293 | 1281 | -1.072734469 | IDH1,PIKFYVE |
| 2 | 96,975,000 | 97,125,000 | 1294 | 1009 | 0.268501758 | PIKFYVE,PTH2R |
| 2 | 97,050,000 | 97,200,000 | 1295 | 1226 | 1.216274239 | PIKFYVE,PTH2R |
| 2 | 97,125,000 | 97,275,000 | 1296 | 1464 | 1.266591191 | PTH2R |
| 2 | 97,200,000 | 97,350,000 | 1297 | 1171 | 0.9852357 | |
| 2 | 97,275,000 | 97,425,000 | 1298 | 1271 | 0.871547053 | |
| 2 | 97,350,000 | 97,500,000 | 1299 | 1562 | 1.240989401 | |
| 2 | 97,425,000 | 97,575,000 | 1300 | 1273 | 1.24923535 | CRYGF |
| 2 | 97,500,000 | 97,650,000 | 1301 | 1238 | 1.184166619 | CRYGF |
| 2 | 97,575,000 | 97,725,000 | 1302 | 1012 | 0.938278569 | |
| 2 | 97,650,000 | 97,800,000 | 1303 | 560 | 0.395365132 | |
| 2 | 97,725,000 | 97,875,000 | 1304 | 669 | 0.434950785 | MAP-2 |
| 2 | 97,800,000 | 97,950,000 | 1305 | 583 | 0.269791913 | MAP-2 |
| 2 | 97,875,000 | 98,025,000 | 1306 | 384 | -0.001651918 | MAP-2,UNC80 |
| 2 | 97,950,000 | 98,100,000 | 1307 | 390 | -1.675297041 | MAP-2,UNC80 |
| 2 | 98,025,000 | 98,175,000 | 1308 | 502 | -1.406093817 | UNC80 |
| 2 | 98,100,000 | 98,250,000 | 1309 | 519 | -0.322948908 | UNC80 |
| 2 | 98,175,000 | 98,325,000 | 1310 | 554 | -0.140729055 | KANSL1L,RPE,UNC80 |
| 2 | 98,250,000 | 98,400,000 | 1311 | 714 | 0.816176453 | KANSL1L,RPE,UNC80 |
| 2 | 98,325,000 | 98,475,000 | 1312 | 878 | 1.393433586 | ACADL,KANSL1L |
| 2 | 98,400,000 | 98,550,000 | 1313 | 941 | 0.595536245 | ACADL,MYL1 |
| 2 | 98,475,000 | 98,625,000 | 1314 | 922 | -0.749262967 | LANCL1,MYL1 |
| 2 | 98,550,000 | 98,700,000 | 1315 | 895 | -0.233097584 | LANCL1,MYL1 |
| 2 | 98,625,000 | 98,775,000 | 1316 | 772 | 0.423337901 | CPS1,LANCL1 |
| 2 | 98,700,000 | 98,850,000 | 1317 | 653 | -0.158333402 | CPS1 |
| 2 | 98,775,000 | 98,925,000 | 1318 | 726 | -0.452129637 | CPS1 |
| 2 | 98,850,000 | 99,000,000 | 1319 | 787 | 0.173497392 | CPS1 |
| 2 | 98,925,000 | 99,075,000 | 1320 | 820 | 0.87099029 | |
| 2 | 99,000,000 | 99,150,000 | 1321 | 910 | 0.806149937 | |
| 2 | 99,075,000 | 99,225,000 | 1322 | 852 | 0.595378168 | |
| 2 | 99,150,000 | 99,300,000 | 1323 | 692 | 0.277553215 | |
| 2 | 99,225,000 | 99,375,000 | 1324 | 550 | 0.001424982 | |
| 2 | 99,300,000 | 99,450,000 | 1325 | 1078 | 0.931450063 | |
| 2 | 99,375,000 | 99,525,000 | 1326 | 1339 | 0.984526893 | |
| 2 | 99,450,000 | 99,600,000 | 1327 | 860 | -0.847446142 | |
| 2 | 99,525,000 | 99,675,000 | 1328 | 704 | -1.896638261 | ENSBTAG00000012647 |
| 2 | 99,600,000 | 99,750,000 | 1329 | 627 | 0.360753551 | ENSBTAG00000012647,ENSBTAG00000047490 |
| 2 | 99,675,000 | 99,825,000 | 1330 | 587 | 0.656226384 | ENSBTAG00000012647,ENSBTAG00000047490 |
| 2 | 99,750,000 | 99,900,000 | 1331 | 946 | 0.511707084 | ENSBTAG00000012647 |
| 2 | 99,825,000 | 99,975,000 | 1332 | 1006 | 0.656919256 | ENSBTAG00000012647 |
| 2 | 99,900,000 | 100,050,000 | 1333 | 529 | 1.00723893 | ENSBTAG00000012647 |
| 2 | 99,975,000 | 100,125,000 | 1334 | 502 | 0.461224869 | ENSBTAG00000012647 |
| 2 | 100,050,000 | 100,200,000 | 1335 | 754 | 0.63497599 | |
| 2 | 100,125,000 | 100,275,000 | 1336 | 941 | 0.329948102 | |
| 2 | 100,200,000 | 100,350,000 | 1337 | 1465 | -1.180645283 | ENSBTAG00000005239 |
| 2 | 100,275,000 | 100,425,000 | 1338 | 1783 | -1.701922175 | ENSBTAG00000005239 |
| 2 | 100,350,000 | 100,500,000 | 1339 | 1456 | -0.692882232 | |
| 2 | 100,425,000 | 100,575,000 | 1340 | 1438 | -1.293856879 | |
| 2 | 100,500,000 | 100,650,000 | 1341 | 1335 | -1.790051907 | |
| 2 | 100,575,000 | 100,725,000 | 1342 | 918 | 0.130884831 | |
| 2 | 100,650,000 | 100,800,000 | 1343 | 1104 | 0.794466198 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 2 | 100,725,000 | 100,875,000 | 1344 | 1308 | 1.120866822 | |
| 2 | 100,800,000 | 100,950,000 | 1345 | 1139 | 1.340296391 | |
| 2 | 100,875,000 | 101,025,000 | 1346 | 986 | 1.076980421 | |
| 2 | 100,950,000 | 101,100,000 | 1347 | 1342 | 0.323856408 | |
| 2 | 101,025,000 | 101,175,000 | 1348 | 1593 | -0.117352058 | |
| 2 | 101,100,000 | 101,250,000 | 1349 | 1387 | -0.042272964 | |
| 2 | 101,175,000 | 101,325,000 | 1350 | 1324 | 0.661890402 | |
| 2 | 101,250,000 | 101,400,000 | 1351 | 1341 | 0.746223417 | |
| 2 | 101,325,000 | 101,475,000 | 1352 | 921 | 0.316166042 | |
| 2 | 101,400,000 | 101,550,000 | 1353 | 357 | -0.027407127 | IKZF2 |
| 2 | 101,475,000 | 101,625,000 | 1354 | 306 | 0.688934769 | IKZF2 |
| 2 | 101,550,000 | 101,700,000 | 1355 | 419 | -0.64218429 | IKZF2 |
| 2 | 101,625,000 | 101,775,000 | 1356 | 414 | -1.281409652 | IKZF2 |
| 2 | 101,700,000 | 101,850,000 | 1357 | 689 | 0.017340853 | IKZF2 |
| 2 | 101,775,000 | 101,925,000 | 1358 | 901 | 0.24172083 | SPAG16 |
| 2 | 101,850,000 | 102,000,000 | 1359 | 753 | 0.428722279 | SPAG16 |
| 2 | 101,925,000 | 102,075,000 | 1360 | 569 | 0.552295801 | |
| 2 | 102,000,000 | 102,150,000 | 1361 | 436 | 0.137790172 | |
| 2 | 102,075,000 | 102,225,000 | 1362 | 363 | -0.549950683 | |
| 2 | 102,150,000 | 102,300,000 | 1363 | 304 | -1.253236197 | |
| 2 | 102,225,000 | 102,375,000 | 1364 | 477 | -3.011339897 | |
| 2 | 102,300,000 | 102,450,000 | 1365 | 1094 | -0.226753943 | |
| 2 | 102,375,000 | 102,525,000 | 1366 | 1401 | 0.397440152 | |
| 2 | 102,450,000 | 102,600,000 | 1367 | 1485 | -0.17887106 | |
| 2 | 102,525,000 | 102,675,000 | 1368 | 1457 | 0.415380542 | |
| 2 | 102,600,000 | 102,750,000 | 1369 | 1255 | 0.63397496 | |
| 2 | 102,675,000 | 102,825,000 | 1370 | 1416 | 0.664758923 | |
| 2 | 102,750,000 | 102,900,000 | 1371 | 1520 | 0.567371459 | |
| 2 | 102,825,000 | 102,975,000 | 1372 | 1394 | 0.435015541 | VWC2L,ENSBTAG00000048219 |
| 2 | 102,900,000 | 103,050,000 | 1373 | 1242 | 0.970916478 | VWC2L,ENSBTAG00000048219 |
| 2 | 102,975,000 | 103,125,000 | 1374 | 1451 | 1.006449667 | VWC2L |
| 2 | 103,050,000 | 103,200,000 | 1375 | 1781 | 0.701574487 | VWC2L |
| 2 | 103,125,000 | 103,275,000 | 1376 | 1847 | 0.178311119 | VWC2L |
| 2 | 103,200,000 | 103,350,000 | 1377 | 1594 | -0.228391545 | BARD1 |
| 2 | 103,275,000 | 103,425,000 | 1378 | 1283 | 0.059969232 | BARD1 |
| 2 | 103,350,000 | 103,500,000 | 1379 | 1281 | 0.0123443 | BARD1 |
| 2 | 103,425,000 | 103,575,000 | 1380 | 1218 | -1.608714194 | ABCA12 |
| 2 | 103,500,000 | 103,650,000 | 1381 | 1114 | -1.918412728 | ABCA12 |
| 2 | 103,575,000 | 103,725,000 | 1382 | 1199 | 0.142540396 | ABCA12 |
| 2 | 103,650,000 | 103,800,000 | 1383 | 1525 | -0.183961533 | ABCA12 |
| 2 | 103,725,000 | 103,875,000 | 1384 | 1695 | 0.257504882 | ATIC |
| 2 | 103,800,000 | 103,950,000 | 1385 | 1308 | 0.83414694 | ATIC,FN1 |
| 2 | 103,875,000 | 104,025,000 | 1386 | 1090 | 0.725505256 | FN1 |
| 2 | 103,950,000 | 104,100,000 | 1387 | 994 | 0.629305651 | FN1 |
| 2 | 104,025,000 | 104,175,000 | 1388 | 780 | 0.488327442 | |
| 2 | 104,100,000 | 104,250,000 | 1389 | 904 | 0.347255884 | |
| 2 | 104,175,000 | 104,325,000 | 1390 | 1117 | 0.553045908 | |
| 2 | 104,250,000 | 104,400,000 | 1391 | 1281 | 1.05417753 | |
| 2 | 104,325,000 | 104,475,000 | 1392 | 1250 | 1.091279036 | |
| 2 | 104,400,000 | 104,550,000 | 1393 | 1306 | 1.022265103 | MREG |
| 2 | 104,475,000 | 104,625,000 | 1394 | 1351 | 1.026527526 | MREG,PECR,TMEM169 |
| 2 | 104,550,000 | 104,700,000 | 1395 | 1160 | 1.034659196 | MREG,PECR,TMEM169,XRCC5 |
| 2 | 104,625,000 | 104,775,000 | 1396 | 1289 | 0.507599837 | PECR,TMEM169,XRCC5 |

| | | | | | | | |
|---|-------------|-------------|------|------|--------------|--|--------|
| 2 | 104,700,000 | 104,850,000 | 1397 | 1378 | 0.111277852 | MARCH4,XRCC5 | |
| 2 | 104,775,000 | 104,925,000 | 1398 | 1323 | -0.161713542 | | 04-Mar |
| 2 | 104,850,000 | 105,000,000 | 1399 | 999 | -0.529188712 | SHOX | |
| 2 | 104,925,000 | 105,075,000 | 1400 | 1191 | 0.880047909 | SHOX | |
| 2 | 105,000,000 | 105,150,000 | 1401 | 1407 | 0.910944838 | SMARCAL1 | |
| 2 | 105,075,000 | 105,225,000 | 1402 | 979 | -0.061089242 | RPL37A,SMARCAL1 | |
| 2 | 105,150,000 | 105,300,000 | 1403 | 722 | 0.278167774 | RPL37A,SMARCAL1 | |
| 2 | 105,225,000 | 105,375,000 | 1404 | 643 | -1.367153106 | IGFBP2,ENSBTAG00000048210 | |
| 2 | 105,300,000 | 105,450,000 | 1405 | 579 | -2.843158986 | IGFBP2,IGFBP5,ENSBTAG00000048210 | |
| 2 | 105,375,000 | 105,525,000 | 1406 | 480 | -1.693624992 | IGFBP5,ENSBTAG00000048210 | |
| 2 | 105,450,000 | 105,600,000 | 1407 | 487 | -0.26144348 | TNP1 | |
| 2 | 105,525,000 | 105,675,000 | 1408 | 671 | 0.145297946 | TNP1 | |
| 2 | 105,600,000 | 105,750,000 | 1409 | 952 | 0.472961743 | | |
| 2 | 105,675,000 | 105,825,000 | 1410 | 874 | 0.576524429 | | |
| 2 | 105,750,000 | 105,900,000 | 1411 | 745 | -0.13621783 | | |
| 2 | 105,825,000 | 105,975,000 | 1412 | 841 | -1.186773975 | | |
| 2 | 105,900,000 | 106,050,000 | 1413 | 690 | -2.123392056 | | |
| 2 | 105,975,000 | 106,125,000 | 1414 | 504 | -2.140734242 | | |
| 2 | 106,050,000 | 106,200,000 | 1415 | 480 | -1.378442924 | | |
| 2 | 106,125,000 | 106,275,000 | 1416 | 519 | -0.864245095 | | |
| 2 | 106,200,000 | 106,350,000 | 1417 | 607 | -0.777931748 | | |
| 2 | 106,275,000 | 106,425,000 | 1418 | 531 | -0.244749595 | | |
| 2 | 106,350,000 | 106,500,000 | 1419 | 352 | -0.131422776 | | |
| 2 | 106,425,000 | 106,575,000 | 1420 | 422 | -0.490940245 | | |
| 2 | 106,500,000 | 106,650,000 | 1421 | 576 | -0.340543214 | TNS1 | |
| 2 | 106,575,000 | 106,725,000 | 1422 | 493 | -1.086749676 | TNS1 | |
| 2 | 106,650,000 | 106,800,000 | 1423 | 375 | -1.481928643 | TNS1 | |
| 2 | 106,725,000 | 106,875,000 | 1424 | 350 | -1.288650797 | TNS1 | |
| 2 | 106,800,000 | 106,950,000 | 1425 | 466 | -0.571728218 | CXCR2,MGC157327 | |
| 2 | 106,875,000 | 107,025,000 | 1426 | 509 | 0.151883237 | AAMP,ARPC2,CXCR2,GPBAR1,MGC157327,PNKD,RECS1 | |
| 2 | 106,950,000 | 107,100,000 | 1427 | 380 | 0.593109465 | AAMP,ARPC2,GPBAR1,PNKD,RECS1 | |
| 2 | 107,025,000 | 107,175,000 | 1428 | 400 | 0.959492946 | CATIP,CTDSP1,PNKD,RECS1,SLC11A1,USP37,VIL1 | |
| 2 | 107,100,000 | 107,250,000 | 1429 | 472 | 0.681833657 | CATIP,CTDSP1,SLC11A1,USP37,VIL1 | |
| 2 | 107,175,000 | 107,325,000 | 1430 | 601 | 0.062689933 | PLCD4,RQCD1,USP37,ZNF142 | |
| 2 | 107,250,000 | 107,400,000 | 1431 | 557 | -0.315743547 | BCS1L,PLCD4,RNF25,RQCD1,STK36,ZNF142 | |
| 2 | 107,325,000 | 107,475,000 | 1432 | 413 | -0.207942351 | BCS1L,CYP27A1,RNF25,STK36,TTLL4,ZNF142 | |
| 2 | 107,400,000 | 107,550,000 | 1433 | 678 | -0.482071524 | CYP27A1,PRKAG3,TTLL4,WNT6 | |
| 2 | 107,475,000 | 107,625,000 | 1434 | 619 | -0.533302775 | CDK5R2,CYP27A1,PRKAG3,WNT10A,WNT6 | |
| 2 | 107,550,000 | 107,700,000 | 1435 | 342 | -0.026841577 | CCDC108,CDK5R2,CRYBA2,FEV,WNT10A,WNT6 | |
| 2 | 107,625,000 | 107,775,000 | 1436 | 343 | 0.029535224 | CCDC108,CRYBA2,FEV,IHH,NHEJ1 | |
| 2 | 107,700,000 | 107,850,000 | 1437 | 282 | 0.287625399 | C2H2ORF24,CCDC108,IHH,NHEJ1,SLC23A3 | |
| 2 | 107,775,000 | 107,925,000 | 1438 | 224 | -1.072786282 | ABCB6,ANKZF1,ATG9A,C2H2ORF24,C2ORF17,GLB1L,NHEJ1,SLC23A3,STK16,TUBA4A,ZFAND2B | |
| 2 | 107,850,000 | 108,000,000 | 1439 | 214 | -2.176155614 | ABCB6,ANKZF1,ATG9A,C2ORF17,DNAJB2,GLB1L,PTPRN,RESP18,STK16,TUBA1D,TUBA4A,ZFAND2B | |
| 2 | 107,925,000 | 108,075,000 | 1440 | 287 | -0.13913167 | DNAJB2,DNPEP,PTPRN,RESP18,TUBA1D,TUBA4A | |
| 2 | 108,000,000 | 108,150,000 | 1441 | 393 | 1.129708355 | DES,DNPEP,SPEG | |
| 2 | 108,075,000 | 108,225,000 | 1442 | 391 | 0.745095874 | ASIC4,CHPF,DES,GMPPA,OBSL1,SPEG,TMEM198 | |
| 2 | 108,150,000 | 108,300,000 | 1443 | 501 | -0.310693822 | ASIC4,CHPF,GMPPA,INHA,OBSL1,SLC4A3,STK11IP,TMEM198 | |
| 2 | 108,225,000 | 108,375,000 | 1444 | 744 | 0.614053621 | INHA,OBSL1,SLC4A3,STK11IP | |
| 2 | 108,300,000 | 108,450,000 | 1445 | 990 | 1.147144247 | | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------|
| 2 | 108,375,000 | 108,525,000 | 1446 | 1222 | 1.099013867 | |
| 2 | 108,450,000 | 108,600,000 | 1447 | 1037 | 0.891211438 | |
| 2 | 108,525,000 | 108,675,000 | 1448 | 634 | 0.438680188 | |
| 2 | 108,600,000 | 108,750,000 | 1449 | 653 | 0.349472923 | |
| 2 | 108,675,000 | 108,825,000 | 1450 | 917 | 0.741450375 | |
| 2 | 108,750,000 | 108,900,000 | 1451 | 1048 | -0.757017371 | |
| 2 | 108,825,000 | 108,975,000 | 1452 | 1010 | -1.714001104 | |
| 2 | 108,900,000 | 109,050,000 | 1453 | 763 | -0.813534415 | |
| 2 | 108,975,000 | 109,125,000 | 1454 | 600 | -2.124346402 | |
| 2 | 109,050,000 | 109,200,000 | 1455 | 594 | -1.639068295 | |
| 2 | 109,125,000 | 109,275,000 | 1456 | 766 | 0.1050123 | |
| 2 | 109,200,000 | 109,350,000 | 1457 | 801 | 0.099439308 | |
| 2 | 109,275,000 | 109,425,000 | 1458 | 555 | -0.188992171 | |
| 2 | 109,350,000 | 109,500,000 | 1459 | 909 | -0.44163111 | |
| 2 | 109,425,000 | 109,575,000 | 1460 | 1040 | -0.038100237 | |
| 2 | 109,500,000 | 109,650,000 | 1461 | 676 | 0.588786535 | |
| 2 | 109,575,000 | 109,725,000 | 1462 | 582 | -0.513186466 | |
| 2 | 109,650,000 | 109,800,000 | 1463 | 549 | -1.085310879 | |
| 2 | 109,725,000 | 109,875,000 | 1464 | 665 | -0.222071698 | |
| 2 | 109,800,000 | 109,950,000 | 1465 | 1020 | 0.808917606 | |
| 2 | 109,875,000 | 110,025,000 | 1466 | 895 | 0.836264296 | |
| 2 | 109,950,000 | 110,100,000 | 1467 | 603 | -0.304627024 | |
| 2 | 110,025,000 | 110,175,000 | 1468 | 627 | -0.067638369 | |
| 2 | 110,100,000 | 110,250,000 | 1469 | 660 | -0.362647552 | |
| 2 | 110,175,000 | 110,325,000 | 1470 | 717 | -0.418127391 | EPHA4 |
| 2 | 110,250,000 | 110,400,000 | 1471 | 604 | -0.052715634 | EPHA4 |
| 2 | 110,325,000 | 110,475,000 | 1472 | 543 | 0.298786461 | EPHA4 |
| 2 | 110,400,000 | 110,550,000 | 1473 | 488 | 0.191576261 | EPHA4 |
| 2 | 110,475,000 | 110,625,000 | 1474 | 707 | 0.833596529 | |
| 2 | 110,550,000 | 110,700,000 | 1475 | 1097 | 1.069669838 | |
| 2 | 110,625,000 | 110,775,000 | 1476 | 1194 | 0.133904564 | |
| 2 | 110,700,000 | 110,850,000 | 1477 | 909 | -0.561456874 | |
| 2 | 110,775,000 | 110,925,000 | 1478 | 724 | -1.568174257 | |
| 2 | 110,850,000 | 111,000,000 | 1479 | 643 | -0.628214497 | |
| 2 | 110,925,000 | 111,075,000 | 1480 | 498 | -0.713463571 | |
| 2 | 111,000,000 | 111,150,000 | 1481 | 686 | -0.818079276 | PAX3 |
| 2 | 111,075,000 | 111,225,000 | 1482 | 789 | 1.17526569 | PAX3 |
| 2 | 111,150,000 | 111,300,000 | 1483 | 839 | 0.844749086 | PAX3 |
| 2 | 111,225,000 | 111,375,000 | 1484 | 699 | -0.006771679 | PAX3 |
| 2 | 111,300,000 | 111,450,000 | 1485 | 840 | -0.436330854 | SGPP2 |
| 2 | 111,375,000 | 111,525,000 | 1486 | 1214 | -0.376162151 | FARSB,SGPP2 |
| 2 | 111,450,000 | 111,600,000 | 1487 | 1118 | 0.161882338 | FARSB,SGPP2,ENSBTAG00000000301 |
| 2 | 111,525,000 | 111,675,000 | 1488 | 877 | 0.881577937 | FARSB,MOGAT1,ENSBTAG00000000301 |
| 2 | 111,600,000 | 111,750,000 | 1489 | 905 | 0.647047463 | MOGAT1,ENSBTAG00000000301 |
| 2 | 111,675,000 | 111,825,000 | 1490 | 769 | 0.134219091 | ACSL3,RPS6 |
| 2 | 111,750,000 | 111,900,000 | 1491 | 598 | -0.363761634 | ACSL3,RPS6 |
| 2 | 111,825,000 | 111,975,000 | 1492 | 904 | -0.264378274 | ACSL3 |
| 2 | 111,900,000 | 112,050,000 | 1493 | 790 | -0.239387155 | KCNE4 |
| 2 | 111,975,000 | 112,125,000 | 1494 | 664 | 0.062254866 | KCNE4 |
| 2 | 112,050,000 | 112,200,000 | 1495 | 678 | 0.257004935 | |
| 2 | 112,125,000 | 112,275,000 | 1496 | 776 | 0.241746179 | |
| 2 | 112,200,000 | 112,350,000 | 1497 | 1235 | -0.189906307 | |
| 2 | 112,275,000 | 112,425,000 | 1498 | 1132 | -0.286626398 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------------|
| 2 | 112,350,000 | 112,500,000 | 1499 | 719 | 0.561955823 | |
| 2 | 112,425,000 | 112,575,000 | 1500 | 484 | 0.928182883 | SCG2 |
| 2 | 112,500,000 | 112,650,000 | 1501 | 473 | -1.45238696 | SCG2 |
| 2 | 112,575,000 | 112,725,000 | 1502 | 546 | -1.426755962 | AP1S3 |
| 2 | 112,650,000 | 112,800,000 | 1503 | 641 | -0.223943205 | AP1S3,WDFY1 |
| 2 | 112,725,000 | 112,875,000 | 1504 | 735 | -0.0747626 | AP1S3,MRPL44,SERPINE2,WDFY1 |
| 2 | 112,800,000 | 112,950,000 | 1505 | 669 | -0.274494604 | MRPL44,SERPINE2,WDFY1 |
| 2 | 112,875,000 | 113,025,000 | 1506 | 535 | -0.117383132 | SERPINE2 |
| 2 | 112,950,000 | 113,100,000 | 1507 | 550 | 0.621853588 | |
| 2 | 113,025,000 | 113,175,000 | 1508 | 679 | -1.096929604 | |
| 2 | 113,100,000 | 113,250,000 | 1509 | 714 | -4.026348501 | |
| 2 | 113,175,000 | 113,325,000 | 1510 | 981 | -1.897639077 | FAM124B |
| 2 | 113,250,000 | 113,400,000 | 1511 | 919 | -0.243777182 | CUL3,FAM124B |
| 2 | 113,325,000 | 113,475,000 | 1512 | 563 | -0.067061297 | CUL3 |
| 2 | 113,400,000 | 113,550,000 | 1513 | 571 | 0.226123884 | CUL3 |
| 2 | 113,475,000 | 113,625,000 | 1514 | 1047 | 0.524110471 | CUL3 |
| 2 | 113,550,000 | 113,700,000 | 1515 | 1264 | 0.23518264 | DOCK10 |
| 2 | 113,625,000 | 113,775,000 | 1516 | 1115 | -0.007945679 | DOCK10 |
| 2 | 113,700,000 | 113,850,000 | 1517 | 963 | 0.265072724 | DOCK10 |
| 2 | 113,775,000 | 113,925,000 | 1518 | 731 | -1.19452446 | DOCK10 |
| 2 | 113,850,000 | 114,000,000 | 1519 | 850 | -0.987960675 | DOCK10 |
| 2 | 113,925,000 | 114,075,000 | 1520 | 1146 | 0.198421017 | |
| 2 | 114,000,000 | 114,150,000 | 1521 | 1206 | -0.313115062 | |
| 2 | 114,075,000 | 114,225,000 | 1522 | 851 | -0.328269544 | |
| 2 | 114,150,000 | 114,300,000 | 1523 | 746 | 0.352662384 | |
| 2 | 114,225,000 | 114,375,000 | 1524 | 880 | -0.209349246 | NYAP2 |
| 2 | 114,300,000 | 114,450,000 | 1525 | 1172 | -0.134034584 | NYAP2 |
| 2 | 114,375,000 | 114,525,000 | 1526 | 1544 | 0.141323722 | NYAP2 |
| 2 | 114,450,000 | 114,600,000 | 1527 | 1054 | 0.084940266 | NYAP2 |
| 2 | 114,525,000 | 114,675,000 | 1528 | 587 | -0.028677043 | NYAP2 |
| 2 | 114,600,000 | 114,750,000 | 1529 | 743 | -0.10096588 | |
| 2 | 114,675,000 | 114,825,000 | 1530 | 827 | 0.263882523 | |
| 2 | 114,750,000 | 114,900,000 | 1531 | 642 | 0.741297173 | |
| 2 | 114,825,000 | 114,975,000 | 1532 | 436 | 0.44401447 | |
| 2 | 114,900,000 | 115,050,000 | 1533 | 500 | 0.453182077 | |
| 2 | 114,975,000 | 115,125,000 | 1534 | 726 | 0.694679812 | |
| 2 | 115,050,000 | 115,200,000 | 1535 | 908 | 0.339554837 | |
| 2 | 115,125,000 | 115,275,000 | 1536 | 683 | 0.061275906 | |
| 2 | 115,200,000 | 115,350,000 | 1537 | 358 | 0.390015996 | |
| 2 | 115,275,000 | 115,425,000 | 1538 | 298 | -0.018751346 | |
| 2 | 115,350,000 | 115,500,000 | 1539 | 335 | -0.41091956 | |
| 2 | 115,425,000 | 115,575,000 | 1540 | 436 | -0.028766589 | |
| 2 | 115,500,000 | 115,650,000 | 1541 | 725 | 0.325908467 | |
| 2 | 115,575,000 | 115,725,000 | 1542 | 662 | -0.025557977 | |
| 2 | 115,650,000 | 115,800,000 | 1543 | 341 | -0.76217204 | IRS1 |
| 2 | 115,725,000 | 115,875,000 | 1544 | 307 | -0.026268015 | IRS1,RHBDD1,ENSBTAG00000023964 |
| 2 | 115,800,000 | 115,950,000 | 1545 | 700 | 0.70881055 | RHBDD1,ENSBTAG00000023964 |
| 2 | 115,875,000 | 116,025,000 | 1546 | 951 | 0.395824815 | COL4A4,RHBDD1 |
| 2 | 115,950,000 | 116,100,000 | 1547 | 1227 | 0.580765093 | COL4A4,RHBDD1 |
| 2 | 116,025,000 | 116,175,000 | 1548 | 1277 | 0.667606971 | COL4A3,COL4A4 |
| 2 | 116,100,000 | 116,250,000 | 1549 | 620 | 0.349587927 | COL4A3,COL4A4 |
| 2 | 116,175,000 | 116,325,000 | 1550 | 536 | 0.600494906 | C2H2ORF33,COL4A3 |
| 2 | 116,250,000 | 116,400,000 | 1551 | 770 | 0.512383539 | C2H2ORF33,COL4A3,TM4SF20 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 116,325,000 | 116,475,000 | 1552 | 626 | 0.090655254 | AGFG1,C2H2ORF33,TM4SF20 |
| 2 | 116,400,000 | 116,550,000 | 1553 | 548 | 0.461886472 | AGFG1 |
| 2 | 116,475,000 | 116,625,000 | 1554 | 896 | 1.024032421 | AGFG1,SLC19A3 |
| 2 | 116,550,000 | 116,700,000 | 1555 | 1040 | 0.776033676 | SLC19A3 |
| 2 | 116,625,000 | 116,775,000 | 1556 | 1072 | 0.607074292 | CCL20,SLC19A3 |
| 2 | 116,700,000 | 116,850,000 | 1557 | 1260 | 0.873141826 | CCL20,DAW1 |
| 2 | 116,775,000 | 116,925,000 | 1558 | 1332 | 1.13135037 | DAW1,SPHKAP |
| 2 | 116,850,000 | 117,000,000 | 1559 | 1252 | 0.120981413 | SPHKAP |
| 2 | 116,925,000 | 117,075,000 | 1560 | 927 | -1.789937294 | SPHKAP |
| 2 | 117,000,000 | 117,150,000 | 1561 | 639 | -3.44232539 | |
| 2 | 117,075,000 | 117,225,000 | 1562 | 471 | -2.957010842 | |
| 2 | 117,150,000 | 117,300,000 | 1563 | 499 | 0.774348007 | |
| 2 | 117,225,000 | 117,375,000 | 1564 | 853 | 0.973636101 | |
| 2 | 117,300,000 | 117,450,000 | 1565 | 1032 | 0.624222785 | |
| 2 | 117,375,000 | 117,525,000 | 1566 | 821 | 0.054547721 | |
| 2 | 117,450,000 | 117,600,000 | 1567 | 887 | 0.651351291 | |
| 2 | 117,525,000 | 117,675,000 | 1568 | 878 | 0.035788728 | |
| 2 | 117,600,000 | 117,750,000 | 1569 | 495 | -0.778661965 | |
| 2 | 117,675,000 | 117,825,000 | 1570 | 355 | 0.662511685 | |
| 2 | 117,750,000 | 117,900,000 | 1571 | 611 | -0.340202082 | PID1 |
| 2 | 117,825,000 | 117,975,000 | 1572 | 813 | -0.398057843 | PID1 |
| 2 | 117,900,000 | 118,050,000 | 1573 | 700 | 0.068718171 | PID1 |
| 2 | 117,975,000 | 118,125,000 | 1574 | 639 | 0.540457921 | PID1 |
| 2 | 118,050,000 | 118,200,000 | 1575 | 607 | 1.071461083 | DNER,PID1 |
| 2 | 118,125,000 | 118,275,000 | 1576 | 625 | -0.237484226 | DNER |
| 2 | 118,200,000 | 118,350,000 | 1577 | 663 | -1.163551475 | DNER |
| 2 | 118,275,000 | 118,425,000 | 1578 | 802 | 0.726982875 | DNER |
| 2 | 118,350,000 | 118,500,000 | 1579 | 798 | 1.061161968 | DNER |
| 2 | 118,425,000 | 118,575,000 | 1580 | 598 | 0.022752964 | DNER |
| 2 | 118,500,000 | 118,650,000 | 1581 | 392 | -1.879600926 | MGC127538,TRIP12 |
| 2 | 118,575,000 | 118,725,000 | 1582 | 236 | -3.369039098 | MGC127538,TRIP12 |
| 2 | 118,650,000 | 118,800,000 | 1583 | 248 | -1.52466895 | FBXO36,TRIP12 |
| 2 | 118,725,000 | 118,875,000 | 1584 | 406 | 0.438767616 | FBXO36,TRIP12 |
| 2 | 118,800,000 | 118,950,000 | 1585 | 605 | 0.533845902 | FBXO36,SLC16A14,SP140L |
| 2 | 118,875,000 | 119,025,000 | 1586 | 776 | -0.082096552 | FBXO36,SLC16A14,SP140L |
| 2 | 118,950,000 | 119,100,000 | 1587 | 765 | -0.358743759 | SP110,SP140L,ENSBTAG00000007280,ENSBTAG00000047133 |
| 2 | 119,025,000 | 119,175,000 | 1588 | 707 | -0.195945541 | SP110,SP140L,ENSBTAG00000007280,ENSBTAG00000037989,ENSBTAG000000047133 |
| 2 | 119,100,000 | 119,250,000 | 1589 | 1149 | 0.674427315 | SP110,SP140L,ENSBTAG00000037989,ENSBTAG00000038710 |
| 2 | 119,175,000 | 119,325,000 | 1590 | 1357 | 0.895510061 | SP140L,ENSBTAG00000038710 |
| 2 | 119,250,000 | 119,400,000 | 1591 | 903 | -0.091498882 | CAB39,ENSBTAG00000038710 |
| 2 | 119,325,000 | 119,475,000 | 1592 | 658 | -1.410822015 | CAB39 |
| 2 | 119,400,000 | 119,550,000 | 1593 | 683 | -1.537204812 | CAB39,GPR55,ITM2C |
| 2 | 119,475,000 | 119,625,000 | 1594 | 894 | -1.309702095 | GPR55,ITM2C,SPATA3 |
| 2 | 119,550,000 | 119,700,000 | 1595 | 921 | -1.948328025 | C2orf72,PSMD1,SPATA3 |
| 2 | 119,625,000 | 119,775,000 | 1596 | 640 | -3.073595078 | 5HTR2B,C2orf72,PSMD1,SPATA3 |
| 2 | 119,700,000 | 119,850,000 | 1597 | 643 | -2.500807415 | 5HTR2B,ARMC9,PSMD1 |
| 2 | 119,775,000 | 119,925,000 | 1598 | 535 | -3.1737485 | ARMC9 |
| 2 | 119,850,000 | 120,000,000 | 1599 | 463 | -1.756301415 | ARMC9,B3GNT7 |
| 2 | 119,925,000 | 120,075,000 | 1600 | 484 | -0.239032379 | ARMC9,B3GNT7,NCL,ENSBTAG00000001357 |
| 2 | 120,000,000 | 120,150,000 | 1601 | 509 | -0.531248518 | C2orf57,NCL,NMUR1,ENSBTAG00000001357 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 120,075,000 | 120,225,000 | 1602 | 449 | -0.471222345 | C2orf57,NMUR1 |
| 2 | 120,150,000 | 120,300,000 | 1603 | 266 | -1.427064502 | PDE6D,PTMA,ENSBTAG00000014988 |
| 2 | 120,225,000 | 120,375,000 | 1604 | 462 | -1.511988672 | COPS7B,PDE6D,PTMA,ENSBTAG00000014988 |
| 2 | 120,300,000 | 120,450,000 | 1605 | 490 | 0.301173308 | COPS7B,NPPC,PDE6D |
| 2 | 120,375,000 | 120,525,000 | 1606 | 282 | 1.400714129 | DIS3L2,NPPC |
| 2 | 120,450,000 | 120,600,000 | 1607 | 253 | 1.05972496 | DIS3L2 |
| 2 | 120,525,000 | 120,675,000 | 1608 | 274 | 0.843424754 | DIS3L2 |
| 2 | 120,600,000 | 120,750,000 | 1609 | 320 | 0.843479399 | DIS3L2 |
| 2 | 120,675,000 | 120,825,000 | 1610 | 421 | 0.527185548 | DIS3L2 |
| 2 | 120,750,000 | 120,900,000 | 1611 | 800 | 0.569058575 | DIS3L2,ENSBTAG00000016748,ENSBTAG00000039346 |
| 2 | 120,825,000 | 120,975,000 | 1612 | 867 | 0.718207566 | ECEL1,ENSBTAG00000004519,ENSBTAG00000012363,ENSBTAG00000016748,ENSBTAG00000039346 |
| 2 | 120,900,000 | 121,050,000 | 1613 | 673 | -0.095446725 | CHRND,CHRNA,ECEL1,EIF4E2,ENSBTAG00000004519,ENSBTAG00000012363 |
| 2 | 120,975,000 | 121,125,000 | 1614 | 715 | -0.843250863 | CHRND,CHRNA,EIF4E2,ENSBTAG000000045513 |
| 2 | 121,050,000 | 121,200,000 | 1615 | 534 | -0.035845947 | PHC2,ENSBTAG000000045513 |
| 2 | 121,125,000 | 121,275,000 | 1616 | 344 | 1.046149715 | A3GALT2,PHC2,ZNF362 |
| 2 | 121,200,000 | 121,350,000 | 1617 | 286 | 0.472065316 | A3GALT2,PHC2,TRIM62,ZNF362 |
| 2 | 121,275,000 | 121,425,000 | 1618 | 441 | 0.593038041 | AZIN2,TRIM62 |
| 2 | 121,350,000 | 121,500,000 | 1619 | 510 | 1.012908202 | AK2,AZIN2,TRIM62 |
| 2 | 121,425,000 | 121,575,000 | 1620 | 296 | 1.080908234 | AK2,AZIN2,RNF19B |
| 2 | 121,500,000 | 121,650,000 | 1621 | 219 | 0.673968067 | AK2,FNDC5,HPCA,RNF19B,S100PBP,TMEM54 |
| 2 | 121,575,000 | 121,725,000 | 1622 | 296 | 0.647696501 | FNDC5,HPCA,KIAA1522,RNF19B,S100PBP,TMEM54,YARS |
| 2 | 121,650,000 | 121,800,000 | 1623 | 617 | -1.690426433 | KIAA1522,S100PBP,SYNC,YARS |
| 2 | 121,725,000 | 121,875,000 | 1624 | 712 | -1.467937248 | RBBP4,SYNC,ZBTB8A,ZBTB8OS |
| 2 | 121,800,000 | 121,950,000 | 1625 | 579 | -0.960944954 | RBBP4,SYNC,ZBTB8A,ZBTB8OS |
| 2 | 121,875,000 | 122,025,000 | 1626 | 1061 | 0.097067706 | BSDC1,ZBTB8A,ENSBTAG00000046044 |
| 2 | 121,950,000 | 122,100,000 | 1627 | 983 | 0.880460455 | BSDC1,FAM229A,HDAC1,LCK,MARCKSL1,TSSK3,ENSBTAG00000046044 |
| 2 | 122,025,000 | 122,175,000 | 1628 | 464 | -0.877592927 | BSDC1,CCDC28B,DCDC2B,EIF3I,FAM167B,FAM229A,HDAC1,IQCC,LCK,MARCKSL1,MTMR9,TMEM234,TSSK3,ENSBTAG00000027930 |
| 2 | 122,100,000 | 122,250,000 | 1629 | 443 | -1.398384838 | CCDC28B,DCDC2B,EIF3I,FAM167B,IQCC,KHDRBS1,LCK,MTMR9,TMEM234,TMEM39B,ENSBTAG00000027930 |
| 2 | 122,175,000 | 122,325,000 | 1630 | 412 | 0.307281524 | KHDRBS1,TMEM39B |
| 2 | 122,250,000 | 122,400,000 | 1631 | 361 | 1.544413636 | KHDRBS1,PTP4A2 |
| 2 | 122,325,000 | 122,475,000 | 1632 | 345 | 1.598396148 | PTP4A2,SPOCD1 |
| 2 | 122,400,000 | 122,550,000 | 1633 | 401 | 1.605544885 | BAI2,SPOCD1 |
| 2 | 122,475,000 | 122,625,000 | 1634 | 410 | 1.570333425 | BAI2,COL16A1,PEF1 |
| 2 | 122,550,000 | 122,700,000 | 1635 | 383 | 1.512396245 | COL16A1,HCRTR1,PEF1,TINAGL1 |
| 2 | 122,625,000 | 122,775,000 | 1636 | 505 | 1.214827564 | FABP3,HCRTR1,PEF1,TINAGL1,ENSBTAG00000039994 |
| 2 | 122,700,000 | 122,850,000 | 1637 | 690 | 0.558713615 | FABP3,SERINC2,ZCCHC17,ENSBTAG00000039994 |
| 2 | 122,775,000 | 122,925,000 | 1638 | 559 | 0.309686595 | FABP3,SERINC2,SNRNP40,ZCCHC17 |
| 2 | 122,850,000 | 123,000,000 | 1639 | 381 | 0.861200893 | NKAIN1,SNRNP40,ZCCHC17 |
| 2 | 122,925,000 | 123,075,000 | 1640 | 555 | 0.815557173 | NKAIN1,PUM1 |
| 2 | 123,000,000 | 123,150,000 | 1641 | 571 | 0.583267215 | PUM1 |
| 2 | 123,075,000 | 123,225,000 | 1642 | 425 | 0.798207846 | PUM1 |
| 2 | 123,150,000 | 123,300,000 | 1643 | 400 | 0.850936736 | PUM1,SDC3 |
| 2 | 123,225,000 | 123,375,000 | 1644 | 591 | 1.043881794 | LAPTM5,SDC3 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 123,300,000 | 123,450,000 | 1645 | 936 | 0.589783296 | LAPTM5,MATN1 |
| 2 | 123,375,000 | 123,525,000 | 1646 | 1027 | 0.346629076 | LAPTM5,MATN1 |
| 2 | 123,450,000 | 123,600,000 | 1647 | 1115 | -0.026229222 | |
| 2 | 123,525,000 | 123,675,000 | 1648 | 1495 | 0.140956426 | |
| 2 | 123,600,000 | 123,750,000 | 1649 | 2065 | 0.956034685 | |
| 2 | 123,675,000 | 123,825,000 | 1650 | 1809 | 1.024315407 | |
| 2 | 123,750,000 | 123,900,000 | 1651 | 1035 | 1.28843631 | |
| 2 | 123,825,000 | 123,975,000 | 1652 | 609 | 1.274581684 | |
| 2 | 123,900,000 | 124,050,000 | 1653 | 649 | 0.924931201 | |
| 2 | 123,975,000 | 124,125,000 | 1654 | 743 | 0.58149139 | |
| 2 | 124,050,000 | 124,200,000 | 1655 | 558 | 0.170899099 | |
| 2 | 124,125,000 | 124,275,000 | 1656 | 626 | 0.489348197 | |
| 2 | 124,200,000 | 124,350,000 | 1657 | 976 | -0.448201674 | |
| 2 | 124,275,000 | 124,425,000 | 1658 | 1057 | -0.376949291 | |
| 2 | 124,350,000 | 124,500,000 | 1659 | 746 | 0.197890916 | |
| 2 | 124,425,000 | 124,575,000 | 1660 | 679 | -0.6478259 | |
| 2 | 124,500,000 | 124,650,000 | 1661 | 654 | -1.048042768 | |
| 2 | 124,575,000 | 124,725,000 | 1662 | 505 | -0.856412259 | |
| 2 | 124,650,000 | 124,800,000 | 1663 | 472 | 0.784946636 | |
| 2 | 124,725,000 | 124,875,000 | 1664 | 529 | 0.804304249 | PTPRU |
| 2 | 124,800,000 | 124,950,000 | 1665 | 508 | -0.216628186 | MECR,PTPRU |
| 2 | 124,875,000 | 125,025,000 | 1666 | 359 | -0.900945571 | EPB41,MECR,PTPRU,SFRS4,TMEM200B |
| 2 | 124,950,000 | 125,100,000 | 1667 | 267 | 0.081705172 | EPB41,SFRS4,TMEM200B |
| 2 | 125,025,000 | 125,175,000 | 1668 | 396 | -0.389660927 | EPB41 |
| 2 | 125,100,000 | 125,250,000 | 1669 | 551 | -0.404641614 | EPB41,OPRD1 |
| 2 | 125,175,000 | 125,325,000 | 1670 | 508 | 0.6520583 | OPRD1,YTHDF2 |
| 2 | 125,250,000 | 125,400,000 | 1671 | 401 | 1.03984231 | GMEB1,OPRD1,TAF12,YTHDF2 |
| 2 | 125,325,000 | 125,475,000 | 1672 | 377 | 0.541502547 | GMEB1,RAB42,RCC1,TAF12,TRNAU1AP,ENSBTAG00000048228 |
| 2 | 125,400,000 | 125,550,000 | 1673 | 340 | 0.635941372 | PHACTR4,RAB42,RCC1,TAF12,TRNAU1AP,ENSBTAG00000048228 |
| 2 | 125,475,000 | 125,625,000 | 1674 | 330 | -0.110674295 | PHACTR4,RCC1,ENSBTAG000000003676 |
| 2 | 125,550,000 | 125,700,000 | 1675 | 534 | 0.079652862 | MED18,PHACTR4,SESN2,ENSBTAG000000003676 |
| 2 | 125,625,000 | 125,775,000 | 1676 | 946 | 0.916360129 | ATPIF1,DNAJC8,MED18,SESN2 |
| 2 | 125,700,000 | 125,850,000 | 1677 | 1066 | 1.070594683 | ATPIF1,DNAJC8,PTAFR,SESN2,ENSBTAG00000009937 |
| 2 | 125,775,000 | 125,925,000 | 1678 | 937 | 0.601809795 | EYA3,PTAFR,ENSBTAG00000009937 |
| 2 | 125,850,000 | 126,000,000 | 1679 | 1121 | -0.185007978 | EYA3,SMPDL3B,XKR8 |
| 2 | 125,925,000 | 126,075,000 | 1680 | 1294 | -0.524144356 | EYA3,RPA2,SMPDL3B,THEMIS2,XKR8 |
| 2 | 126,000,000 | 126,150,000 | 1681 | 1144 | -1.360404755 | PPP1R8,RPA2,SMPDL3B,STX12,THEMIS2,ENSBTAG0000003867 |
| 2 | 126,075,000 | 126,225,000 | 1682 | 809 | -1.952590792 | FAM76A,PPP1R8,STX12,ENSBTAG00000003867 |
| 2 | 126,150,000 | 126,300,000 | 1683 | 650 | -0.2915733 | FAM76A,FGR,IFI6,STX12 |
| 2 | 126,225,000 | 126,375,000 | 1684 | 491 | 0.375196243 | AHDC1,FGR,IFI6 |
| 2 | 126,300,000 | 126,450,000 | 1685 | 358 | 0.671095717 | AHDC1,WASF2 |
| 2 | 126,375,000 | 126,525,000 | 1686 | 390 | 0.673738927 | CD164L2,GPR3,MAP3K6,SYTL1,WASF2 |
| 2 | 126,450,000 | 126,600,000 | 1687 | 374 | 0.728789516 | CD164L2,GPR3,MAP3K6,SYTL1,TMEM222,WASF2 |
| 2 | 126,525,000 | 126,675,000 | 1688 | 369 | 0.183905643 | SYTL1,TMEM222 |
| 2 | 126,600,000 | 126,750,000 | 1689 | 463 | -0.37780311 | SLC9A1 |
| 2 | 126,675,000 | 126,825,000 | 1690 | 454 | -0.201269283 | FAM46B,SLC9A1 |
| 2 | 126,750,000 | 126,900,000 | 1691 | 326 | -0.094175863 | FAM46B,MGC159903,NR0B2,NUDC |
| 2 | 126,825,000 | 126,975,000 | 1692 | 333 | -0.723127789 | GPATCH3,GPN2,MGC159903,NR0B2,NUDC,SFN,ZDHHC18 |
| 2 | 126,900,000 | 127,050,000 | 1693 | 328 | -0.577916131 | ARID1A,GPATCH3,GPN2,PIGV,SFN,ZDHHC18 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 126,975,000 | 127,125,000 | 1694 | 315 | -0.249230947 | ARID1A,PIGV |
| 2 | 127,050,000 | 127,200,000 | 1695 | 415 | 0.291962484 | ARID1A,RPS6KA1 |
| 2 | 127,125,000 | 127,275,000 | 1696 | 474 | 0.271294789 | DHDDS,RPS6KA1,ENSBTAG00000038104 |
| 2 | 127,200,000 | 127,350,000 | 1697 | 484 | -1.418627298 | DHDDS,RPS6KA1,ENSBTAG00000038104,ENSBTAG0000040497 |
| 2 | 127,275,000 | 127,425,000 | 1698 | 442 | -4.045043054 | AIM1L,CD52,DHDDS,UBXN11,ZNF683,ENSBTAG00000040497 |
| 2 | 127,350,000 | 127,500,000 | 1699 | 416 | -3.996496002 | AIM1L,CATSPER4,CD52,CEP85,SH3BGRL3,UBXN11,ZNF683,ENSBTAG00000039276 |
| 2 | 127,425,000 | 127,575,000 | 1700 | 368 | -0.541076474 | CATSPER4,CEP85,FAM110D,PDIK1L,SH3BGRL3,UBXN11,ZNF593,ENSBTAG00000019399,ENSBTAG00000039276,ENSBTAG00000047148 |
| 2 | 127,500,000 | 127,650,000 | 1701 | 493 | -1.361414969 | EXTL1,FAM110D,PDIK1L,SLC30A2,TRIM63,ZNF593,ENSBTAG00000019399,ENSBTAG00000047148 |
| 2 | 127,575,000 | 127,725,000 | 1702 | 645 | -1.513611228 | EXTL1,PAFAH2,SLC30A2,TRIM63 |
| 2 | 127,650,000 | 127,800,000 | 1703 | 573 | -0.318719198 | EXTL1,PAFAH2,STMN1 |
| 2 | 127,725,000 | 127,875,000 | 1704 | 563 | -0.291587237 | AUNIP,MTFR1L,PAQR7,SEPN1,STMN1 |
| 2 | 127,800,000 | 127,950,000 | 1705 | 803 | 0.247617091 | AUNIP,MAN1C1,MTFR1L,PAQR7,SEPN1 |
| 2 | 127,875,000 | 128,025,000 | 1706 | 795 | 0.669209193 | MAN1C1 |
| 2 | 127,950,000 | 128,100,000 | 1707 | 495 | 0.797792933 | LDLRAP1,MAN1C1 |
| 2 | 128,025,000 | 128,175,000 | 1708 | 462 | 0.56084573 | LDLRAP1,TMEM57 |
| 2 | 128,100,000 | 128,250,000 | 1709 | 521 | 0.529271695 | LDLRAP1,TMEM57,ENSBTAG00000001297 |
| 2 | 128,175,000 | 128,325,000 | 1710 | 671 | 0.886819576 | RSRP1,SYF2,TMEM50A,TMEM57,ENSBTAG00000001297 |
| 2 | 128,250,000 | 128,400,000 | 1711 | 828 | 0.834685422 | RSRP1,SYF2,TMEM50A,ENSBTAG00000001297 |
| 2 | 128,325,000 | 128,475,000 | 1712 | 697 | -0.211682039 | SYF2 |
| 2 | 128,400,000 | 128,550,000 | 1713 | 477 | -0.077476338 | |
| 2 | 128,475,000 | 128,625,000 | 1714 | 618 | 0.48049856 | |
| 2 | 128,550,000 | 128,700,000 | 1715 | 769 | -0.025049311 | RUNX3 |
| 2 | 128,625,000 | 128,775,000 | 1716 | 569 | 0.262630596 | CLIC4,RUNX3 |
| 2 | 128,700,000 | 128,850,000 | 1717 | 558 | -0.059379206 | CLIC4,SRRM1 |
| 2 | 128,775,000 | 128,925,000 | 1718 | 836 | -2.292381857 | CLIC4,NCMAP,SRRM1 |
| 2 | 128,850,000 | 129,000,000 | 1719 | 967 | -1.923876261 | NCMAP,RCAN3,SRRM1 |
| 2 | 128,925,000 | 129,075,000 | 1720 | 863 | -0.785443346 | NCMAP,NIPAL3,RCAN3 |
| 2 | 129,000,000 | 129,150,000 | 1721 | 980 | 0.238598056 | NIPAL3,RCAN3,STPG1 |
| 2 | 129,075,000 | 129,225,000 | 1722 | 1356 | 0.648513348 | GRHL3,NIPAL3,STPG1 |
| 2 | 129,150,000 | 129,300,000 | 1723 | 1230 | 0.918596894 | GRHL3,STPG1 |
| 2 | 129,225,000 | 129,375,000 | 1724 | 1157 | 1.04468042 | IFNLR1,IL22RA1 |
| 2 | 129,300,000 | 129,450,000 | 1725 | 1239 | 0.903215991 | IFNLR1,IL22RA1,MYOM3 |
| 2 | 129,375,000 | 129,525,000 | 1726 | 1021 | 0.94160421 | FUSIP1,IL22RA1,MYOM3 |
| 2 | 129,450,000 | 129,600,000 | 1727 | 826 | 1.292781015 | CNR2,FUSIP1,PNRC2 |
| 2 | 129,525,000 | 129,675,000 | 1728 | 664 | 0.960728614 | CNR2,FUCA1,FUSIP1,PNRC2 |
| 2 | 129,600,000 | 129,750,000 | 1729 | 517 | -0.282164209 | CNR2,FUCA1,GALE,HMGCL,LYPLA2,MGC159500,TCEB3,ENSBTAG00000047467 |
| 2 | 129,675,000 | 129,825,000 | 1730 | 508 | -0.277725655 | FUCA1,GALE,HMGCL,LYPLA2,MGC159500,RPL11,TCEB3,ENSBTAG00000047467 |
| 2 | 129,750,000 | 129,900,000 | 1731 | 501 | 0.166382271 | ID3,RPL11,TCEB3 |
| 2 | 129,825,000 | 129,975,000 | 1732 | 561 | 0.534140221 | ASAP3,E2F2,ID3 |
| 2 | 129,900,000 | 130,050,000 | 1733 | 563 | 0.901519468 | ASAP3,E2F2,TCEA3 |
| 2 | 129,975,000 | 130,125,000 | 1734 | 343 | 1.178083444 | ASAP3,HNRNPR,TCEA3,ZNF436 |
| 2 | 130,050,000 | 130,200,000 | 1735 | 363 | 0.776995976 | HNRNPR,TCEA3,ZNF436 |
| 2 | 130,125,000 | 130,275,000 | 1736 | 485 | 0.327253168 | HNRNPR,HTR1D |
| 2 | 130,200,000 | 130,350,000 | 1737 | 396 | 0.470329642 | HTR1D |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 2 | 130,275,000 | 130,425,000 | 1738 | 301 | 0.165886044 | KDM1A,LUZP1 |
| 2 | 130,350,000 | 130,500,000 | 1739 | 496 | -2.765966295 | EPHB2,KDM1A,LACTBL1,LUZP1 |
| 2 | 130,425,000 | 130,575,000 | 1740 | 1007 | -0.694281988 | EPHB2,KDM1A,LACTBL1 |
| 2 | 130,500,000 | 130,650,000 | 1741 | 1353 | 0.494932794 | EPHB2 |
| 2 | 130,575,000 | 130,725,000 | 1742 | 933 | 0.525801027 | |
| 2 | 130,650,000 | 130,800,000 | 1743 | 745 | 0.322894538 | C1QA,C1QB,C1QC,ENSBTAG00000011195 |
| 2 | 130,725,000 | 130,875,000 | 1744 | 1173 | -0.058626199 | C1QA,C1QB,C1QC,EPHA8,ENSBTAG00000011195 |
| 2 | 130,800,000 | 130,950,000 | 1745 | 1196 | 0.159229393 | EPHA8,ZBTB40 |
| 2 | 130,875,000 | 131,025,000 | 1746 | 974 | 0.988973589 | ZBTB40 |
| 2 | 130,950,000 | 131,100,000 | 1747 | 979 | 0.946433232 | |
| 2 | 131,025,000 | 131,175,000 | 1748 | 1032 | 0.457110342 | |
| 2 | 131,100,000 | 131,250,000 | 1749 | 800 | -0.055289752 | |
| 2 | 131,175,000 | 131,325,000 | 1750 | 503 | -1.009438606 | WNT4 |
| 2 | 131,250,000 | 131,400,000 | 1751 | 463 | -1.046255759 | CDC42,WNT4 |
| 2 | 131,325,000 | 131,475,000 | 1752 | 744 | -1.211464175 | CDC42,CELA3B,ENSBTAG00000030269,ENSBTAG0000040602 |
| 2 | 131,400,000 | 131,550,000 | 1753 | 1039 | -0.867665074 | CELA3B,HSPG2,ENSBTAG00000030269,ENSBTAG0000040602 |
| 2 | 131,475,000 | 131,625,000 | 1754 | 801 | -0.164770984 | HSPG2,LDLRAD2,USP48 |
| 2 | 131,550,000 | 131,700,000 | 1755 | 538 | -1.191857592 | HSPG2,LDLRAD2,USP48 |
| 2 | 131,625,000 | 131,775,000 | 1756 | 627 | -2.072488723 | RAP1GAP,USP48 |
| 2 | 131,700,000 | 131,850,000 | 1757 | 729 | -3.004124522 | ALPL,RAP1GAP |
| 2 | 131,775,000 | 131,925,000 | 1758 | 920 | -2.322018082 | ALPL,RAP1GAP |
| 2 | 131,850,000 | 132,000,000 | 1759 | 918 | -0.369193349 | ALPL,ECE1 |
| 2 | 131,925,000 | 132,075,000 | 1760 | 573 | 0.367103247 | ECE1 |
| 2 | 132,000,000 | 132,150,000 | 1761 | 331 | -0.118438828 | ECE1,EIF4G3 |
| 2 | 132,075,000 | 132,225,000 | 1762 | 447 | 0.095676171 | EIF4G3 |
| 2 | 132,150,000 | 132,300,000 | 1763 | 604 | 0.621857224 | EIF4G3 |
| 2 | 132,225,000 | 132,375,000 | 1764 | 571 | 1.037250101 | EIF4G3 |
| 2 | 132,300,000 | 132,450,000 | 1765 | 455 | 1.115954409 | EIF4G3 |
| 2 | 132,375,000 | 132,525,000 | 1766 | 377 | 0.720948956 | EIF4G3,HP1BP3,SH2D5 |
| 2 | 132,450,000 | 132,600,000 | 1767 | 661 | 0.757582717 | DDOST,EIF4G3,HP1BP3,KIF17,SH2D5 |
| 2 | 132,525,000 | 132,675,000 | 1768 | 994 | 0.628293812 | CDA,DDOST,KIF17,PINK1,SH2D5 |
| 2 | 132,600,000 | 132,750,000 | 1769 | 910 | -0.292554554 | CDA,DDOST,FAM43B,MUL1,PINK1 |
| 2 | 132,675,000 | 132,825,000 | 1770 | 646 | -1.405653223 | CAMK2N1,FAM43B,MUL1 |
| 2 | 132,750,000 | 132,900,000 | 1771 | 458 | -1.02044841 | CAMK2N1,VWA5B1 |
| 2 | 132,825,000 | 132,975,000 | 1772 | 761 | -0.260252304 | VWA5B1 |
| 2 | 132,900,000 | 133,050,000 | 1773 | 758 | -0.135208216 | VWA5B1 |
| 2 | 132,975,000 | 133,125,000 | 1774 | 615 | -0.21304358 | PLA2G2C,PLA2G2F,UBXN10 |
| 2 | 133,050,000 | 133,200,000 | 1775 | 1546 | 0.581473529 | PLA2G2C,PLA2G2D3,PLA2G2D4,PLA2G2F,UBXN10 |
| 2 | 133,125,000 | 133,275,000 | 1776 | 2115 | 0.459830548 | PLA2G2A,PLA2G2D3,PLA2G2D4,PLA2G5 |
| 2 | 133,200,000 | 133,350,000 | 1777 | 2401 | -0.169611984 | PLA2G2A,PLA2G5,ENSBTAG00000013039 |
| 2 | 133,275,000 | 133,425,000 | 1778 | 2397 | 0.121464384 | OTUD3,PLA2G2A,PLA2G2E,ENSBTAG00000013039 |
| 2 | 133,350,000 | 133,500,000 | 1779 | 1968 | 0.78727116 | OTUD3,PLA2G2E,RNF186 |
| 2 | 133,425,000 | 133,575,000 | 1780 | 1806 | -0.570103306 | RNF186,TMCO4 |
| 2 | 133,500,000 | 133,650,000 | 1781 | 1234 | -1.486218415 | HTR6,TMCO4,ENSBTAG00000005140 |
| 2 | 133,575,000 | 133,725,000 | 1782 | 668 | -0.465292624 | HTR6,TMCO4,ENSBTAG00000005140 |
| 2 | 133,650,000 | 133,800,000 | 1783 | 672 | 0.558021515 | CAPZB |
| 2 | 133,725,000 | 133,875,000 | 1784 | 822 | 0.231229265 | CAPZB |
| 2 | 133,800,000 | 133,950,000 | 1785 | 967 | 0.122799422 | CAPZB,PQLC2 |
| 2 | 133,875,000 | 134,025,000 | 1786 | 904 | 0.082043329 | AKR7A2,CAPZB,EMC1,MRTO4,PQLC2,ENSBTAG00000026758 |
| 2 | 133,950,000 | 134,100,000 | 1787 | 527 | 0.324667901 | AKR7A2,EMC1,MRTO4,UBR4,ENSBTAG00000026758 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 2 | 134,025,000 | 134,175,000 | 1788 | 432 | 1.289630083 | UBR4 |
| 2 | 134,100,000 | 134,250,000 | 1789 | 778 | 0.430229139 | UBR4 |
| 2 | 134,175,000 | 134,325,000 | 1790 | 998 | -0.070239017 | UBR4,ENSBTAG00000030340 |
| 2 | 134,250,000 | 134,400,000 | 1791 | 869 | 0.042949733 | ALDH4A1,TAS1R2,ENSBTAG00000030340 |
| 2 | 134,325,000 | 134,475,000 | 1792 | 1341 | 0.402211951 | ALDH4A1,TAS1R2,ENSBTAG00000030340 |
| 2 | 134,400,000 | 134,550,000 | 1793 | 1428 | 0.417118641 | PAX7,TAS1R2 |
| 2 | 134,475,000 | 134,625,000 | 1794 | 1044 | 0.236884453 | PAX7 |
| 2 | 134,550,000 | 134,700,000 | 1795 | 1601 | 0.526072864 | PAX7 |
| 2 | 134,625,000 | 134,775,000 | 1796 | 1793 | 0.88545264 | |
| 2 | 134,700,000 | 134,850,000 | 1797 | 1574 | 0.757295485 | KLHDC7A |
| 2 | 134,775,000 | 134,925,000 | 1798 | 1907 | 0.579819405 | IGSF21,KLHDC7A |
| 2 | 134,850,000 | 135,000,000 | 1799 | 1775 | 0.600380961 | IGSF21 |
| 2 | 134,925,000 | 135,075,000 | 1800 | 1459 | 0.219123733 | |
| 2 | 135,000,000 | 135,150,000 | 1801 | 1204 | -0.001832966 | |
| 2 | 135,075,000 | 135,225,000 | 1802 | 1104 | -0.582322497 | |
| 2 | 135,150,000 | 135,300,000 | 1803 | 1193 | -0.886703307 | |
| 2 | 135,225,000 | 135,375,000 | 1804 | 1361 | -0.286885374 | |
| 2 | 135,300,000 | 135,450,000 | 1805 | 1383 | 0.053737247 | ACTL8 |
| 2 | 135,375,000 | 135,525,000 | 1806 | 1102 | 0.544826834 | ACTL8 |
| 2 | 135,450,000 | 135,600,000 | 1807 | 1139 | 0.494619131 | ARHGEF10L |
| 2 | 135,525,000 | 135,675,000 | 1808 | 1287 | 0.471998501 | ARHGEF10L |
| 2 | 135,600,000 | 135,750,000 | 1809 | 1340 | 0.576430043 | ARHGEF10L |
| 2 | 135,675,000 | 135,825,000 | 1810 | 894 | 0.469092593 | PADI6,RCC2 |
| 2 | 135,750,000 | 135,900,000 | 1811 | 939 | -0.197461508 | PADI3,PADI4,PADI6,RCC2 |
| 2 | 135,825,000 | 135,975,000 | 1812 | 1159 | -0.60226225 | PADI1,PADI3,PADI4,PADI6 |
| 2 | 135,900,000 | 136,050,000 | 1813 | 758 | -0.893241134 | PADI1,PADI2,PADI3 |
| 2 | 135,975,000 | 136,125,000 | 1814 | 762 | -0.066843453 | PADI2 |
| 2 | 136,050,000 | 136,200,000 | 1815 | 1100 | 0.875545632 | ATP13A2,CROCC,MFAP2,PADI2,SDHB |
| 2 | 136,125,000 | 136,275,000 | 1816 | 1290 | 0.501806598 | ATP13A2,CROCC,MFAP2,NECAP2,SDHB |
| 2 | 136,200,000 | 136,350,000 | 1817 | 1200 | 0.331857796 | CROCC,NECAP2,SPATA21,SZRD1,ENSBTAG00000047837 |
| 2 | 136,275,000 | 136,425,000 | 1818 | 1122 | 0.854316487 | FBXO42,SPATA21,SZRD1,ENSBTAG00000047837 |
| 2 | 136,350,000 | 136,500,000 | 1819 | 1117 | 0.52399005 | ARHGEF19,FBXO42,RSG1,ENSBTAG00000047837 |
| 2 | 136,425,000 | 136,575,000 | 1820 | 1128 | 0.653258431 | ARHGEF19,EPHA2,FBXO42,RSG1 |
| 2 | 136,500,000 | 136,650,000 | 1821 | 1015 | 0.740308607 | C2H1orf64,EPHA2,FAM131C,HSPB7,ENSBTAG00000034674 |
| 2 | 136,575,000 | 136,725,000 | 1822 | 995 | 0.120714469 | C2H1orf64,FAM131C,HSPB7,ENSBTAG00000034674 |
| 2 | 136,650,000 | 136,800,000 | 1823 | 1075 | 0.27642852 | C2H1orf64 |
| 2 | 136,725,000 | 136,875,000 | 1824 | 622 | 0.299459035 | |
| 2 | 136,800,000 | 136,950,000 | 1825 | 148 | -0.390332818 | |
| 2 | 136,875,000 | 137,025,000 | 1826 | 215 | 0.240910367 | |
| 2 | 136,950,000 | 137,060,424 | 1827 | 271 | 0.07882371 | |
| 3 | 0 | 150,000 | 1 | 736 | 0.563031071 | ENSBTAG00000003249,ENSBTAG00000047047 |
| 3 | 75,000 | 225,000 | 2 | 1240 | 0.538382852 | ENSBTAG00000000584,ENSBTAG00000003249 |
| 3 | 150,000 | 300,000 | 3 | 1277 | 0.629796513 | TBX19,ENSBTAG00000000584 |
| 3 | 225,000 | 375,000 | 4 | 1111 | 1.000493205 | SFT2D2,TBX19 |
| 3 | 300,000 | 450,000 | 5 | 1009 | 0.812537214 | SFT2D2,TIPRL |
| 3 | 375,000 | 525,000 | 6 | 688 | 0.296497366 | TIPRL |
| 3 | 450,000 | 600,000 | 7 | 715 | -0.524364269 | GPR161,IQWD1,TIPRL,ENSBTAG00000047162 |
| 3 | 525,000 | 675,000 | 8 | 857 | -0.294197479 | GPR161,IQWD1,ENSBTAG00000047162 |
| 3 | 600,000 | 750,000 | 9 | 809 | -0.314920206 | IQWD1 |
| 3 | 675,000 | 825,000 | 10 | 885 | -0.247711165 | IQWD1,MPC2 |
| 3 | 750,000 | 900,000 | 11 | 847 | -0.103451226 | ADCY10,IQWD1,MPC2 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|---------------------|
| 3 | 825,000 | 975,000 | 12 | 1005 | -1.065696849 | ADCY10,MPZL1 |
| 3 | 900,000 | 1,050,000 | 13 | 908 | -1.426220746 | ADCY10,MPZL1 |
| 3 | 975,000 | 1,125,000 | 14 | 673 | -1.301237283 | MPZL1,RCSD1 |
| 3 | 1,050,000 | 1,200,000 | 15 | 1059 | -0.289113806 | CREG1,RCSD1 |
| 3 | 1,125,000 | 1,275,000 | 16 | 1738 | 0.915761687 | CD247,CREG1,RCSD1 |
| 3 | 1,200,000 | 1,350,000 | 17 | 1641 | 1.075313551 | CD247,CREG1,POU2F1 |
| 3 | 1,275,000 | 1,425,000 | 18 | 1113 | 0.64783521 | CD247,POU2F1 |
| 3 | 1,350,000 | 1,500,000 | 19 | 1016 | -0.350889261 | POU2F1 |
| 3 | 1,425,000 | 1,575,000 | 20 | 906 | -0.255749215 | |
| 3 | 1,500,000 | 1,650,000 | 21 | 765 | 0.707197352 | |
| 3 | 1,575,000 | 1,725,000 | 22 | 764 | 0.703505104 | DUSP27 |
| 3 | 1,650,000 | 1,800,000 | 23 | 999 | 0.542637936 | DUSP27,GPA33 |
| 3 | 1,725,000 | 1,875,000 | 24 | 1336 | 0.589018682 | GPA33 |
| 3 | 1,800,000 | 1,950,000 | 25 | 968 | 0.580044278 | MAEL |
| 3 | 1,875,000 | 2,025,000 | 26 | 611 | -0.245363383 | ILDR2,MAEL |
| 3 | 1,950,000 | 2,100,000 | 27 | 1129 | -0.022293759 | ILDR2,TADA1 |
| 3 | 2,025,000 | 2,175,000 | 28 | 1591 | -0.863138228 | POGK,TADA1 |
| 3 | 2,100,000 | 2,250,000 | 29 | 1429 | -1.326357588 | POGK,TADA1 |
| 3 | 2,175,000 | 2,325,000 | 30 | 1315 | 0.385259726 | |
| 3 | 2,250,000 | 2,400,000 | 31 | 1603 | 0.723669024 | ENSBTAG00000022504 |
| 3 | 2,325,000 | 2,475,000 | 32 | 1354 | 0.187075436 | ENSBTAG00000022504 |
| 3 | 2,400,000 | 2,550,000 | 33 | 1384 | -0.385969892 | |
| 3 | 2,475,000 | 2,625,000 | 34 | 1795 | 0.329667505 | |
| 3 | 2,550,000 | 2,700,000 | 35 | 1869 | 0.306701013 | ENSBTAG00000022954 |
| 3 | 2,625,000 | 2,775,000 | 36 | 1651 | -0.913956428 | ENSBTAG00000022954 |
| 3 | 2,700,000 | 2,850,000 | 37 | 1217 | -2.492034531 | |
| 3 | 2,775,000 | 2,925,000 | 38 | 1558 | -0.077391806 | FAM78B |
| 3 | 2,850,000 | 3,000,000 | 39 | 1818 | 0.405022267 | FAM78B |
| 3 | 2,925,000 | 3,075,000 | 40 | 1672 | 0.205931734 | UCK2 |
| 3 | 3,000,000 | 3,150,000 | 41 | 1296 | 0.077960482 | UCK2 |
| 3 | 3,075,000 | 3,225,000 | 42 | 1068 | 0.324710852 | TMCO1,UCK2 |
| 3 | 3,150,000 | 3,300,000 | 43 | 1410 | -0.023717741 | ALDH9A1,MGST3,TMCO1 |
| 3 | 3,225,000 | 3,375,000 | 44 | 1710 | -0.742799101 | ALDH9A1,MGST3 |
| 3 | 3,300,000 | 3,450,000 | 45 | 1552 | -0.135825926 | LRRRC52,MGST3 |
| 3 | 3,375,000 | 3,525,000 | 46 | 1197 | 0.76059094 | LRRRC52 |
| 3 | 3,450,000 | 3,600,000 | 47 | 1193 | 0.271709275 | RXRG |
| 3 | 3,525,000 | 3,675,000 | 48 | 1002 | -0.173023632 | RXRG |
| 3 | 3,600,000 | 3,750,000 | 49 | 1119 | 0.125709312 | LMX1A,RXRG |
| 3 | 3,675,000 | 3,825,000 | 50 | 1305 | 0.74082175 | LMX1A |
| 3 | 3,750,000 | 3,900,000 | 51 | 1294 | 0.562247383 | LMX1A |
| 3 | 3,825,000 | 3,975,000 | 52 | 1123 | 0.11593092 | LMX1A |
| 3 | 3,900,000 | 4,050,000 | 53 | 813 | 0.051325879 | |
| 3 | 3,975,000 | 4,125,000 | 54 | 1131 | 0.365054124 | |
| 3 | 4,050,000 | 4,200,000 | 55 | 1214 | -0.05584086 | |
| 3 | 4,125,000 | 4,275,000 | 56 | 753 | -0.488751626 | PBX1 |
| 3 | 4,200,000 | 4,350,000 | 57 | 494 | -0.988808013 | PBX1 |
| 3 | 4,275,000 | 4,425,000 | 58 | 601 | -0.371456352 | PBX1 |
| 3 | 4,350,000 | 4,500,000 | 59 | 920 | 0.295946925 | PBX1 |
| 3 | 4,425,000 | 4,575,000 | 60 | 1040 | 0.291869538 | PBX1 |
| 3 | 4,500,000 | 4,650,000 | 61 | 1185 | 0.244060412 | PBX1 |
| 3 | 4,575,000 | 4,725,000 | 62 | 1123 | 0.410244905 | |
| 3 | 4,650,000 | 4,800,000 | 63 | 949 | 0.986232803 | |
| 3 | 4,725,000 | 4,875,000 | 64 | 1158 | 0.885625227 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|--|
| 3 | 4,800,000 | 4,950,000 | 65 | 1023 | 0.612898227 | |
| 3 | 4,875,000 | 5,025,000 | 66 | 983 | -1.425384703 | |
| 3 | 4,950,000 | 5,100,000 | 67 | 1101 | -4.846667416 | |
| 3 | 5,025,000 | 5,175,000 | 68 | 987 | -2.347621261 | |
| 3 | 5,100,000 | 5,250,000 | 69 | 1003 | 0.782164413 | |
| 3 | 5,175,000 | 5,325,000 | 70 | 1268 | 0.954060441 | |
| 3 | 5,250,000 | 5,400,000 | 71 | 1388 | 0.339352609 | ENSBTAG00000045987 |
| 3 | 5,325,000 | 5,475,000 | 72 | 1144 | -0.742828401 | GNG11,ENSBTAG00000045987 |
| 3 | 5,400,000 | 5,550,000 | 73 | 1046 | -0.594395964 | GNG11 |
| 3 | 5,475,000 | 5,625,000 | 74 | 1306 | 0.792976757 | |
| 3 | 5,550,000 | 5,700,000 | 75 | 1356 | 0.936110686 | |
| 3 | 5,625,000 | 5,775,000 | 76 | 838 | 0.133369855 | |
| 3 | 5,700,000 | 5,850,000 | 77 | 830 | -0.275873287 | |
| 3 | 5,775,000 | 5,925,000 | 78 | 1130 | 0.203637462 | |
| 3 | 5,850,000 | 6,000,000 | 79 | 886 | 0.868076133 | |
| 3 | 5,925,000 | 6,075,000 | 80 | 774 | 0.856512507 | NUF2 |
| 3 | 6,000,000 | 6,150,000 | 81 | 748 | 0.996744004 | NUF2 |
| 3 | 6,075,000 | 6,225,000 | 82 | 1192 | -1.260494132 | |
| 3 | 6,150,000 | 6,300,000 | 83 | 1836 | -0.992991229 | RGS4,RGS5 |
| 3 | 6,225,000 | 6,375,000 | 84 | 1853 | 0.124003585 | RGS4,RGS5 |
| 3 | 6,300,000 | 6,450,000 | 85 | 1707 | -0.645124008 | RGS5 |
| 3 | 6,375,000 | 6,525,000 | 86 | 1483 | -0.756077968 | RGS5 |
| 3 | 6,450,000 | 6,600,000 | 87 | 1530 | 0.426947909 | C1orf110 |
| 3 | 6,525,000 | 6,675,000 | 88 | 1689 | 0.527404767 | C1orf110,DDR2,HSD17B7 |
| 3 | 6,600,000 | 6,750,000 | 89 | 1359 | 0.53174491 | DDR2,HSD17B7 |
| 3 | 6,675,000 | 6,825,000 | 90 | 1393 | 0.942774587 | DDR2 |
| 3 | 6,750,000 | 6,900,000 | 91 | 1178 | 0.435009806 | DDR2 |
| 3 | 6,825,000 | 6,975,000 | 92 | 563 | -0.974584024 | DDR2,UAP1 |
| 3 | 6,900,000 | 7,050,000 | 93 | 653 | 0.093437941 | UAP1,UHMK1 |
| 3 | 6,975,000 | 7,125,000 | 94 | 1158 | 0.269238055 | C3H1orf111,NOS1AP,SH2D1B,UHMK1 |
| 3 | 7,050,000 | 7,200,000 | 95 | 1466 | -0.563145096 | C3H1orf111,NOS1AP,SH2D1B |
| 3 | 7,125,000 | 7,275,000 | 96 | 1305 | -0.609323124 | NOS1AP |
| 3 | 7,200,000 | 7,350,000 | 97 | 983 | 0.261337696 | NOS1AP |
| 3 | 7,275,000 | 7,425,000 | 98 | 1379 | 0.469187539 | NOS1AP |
| 3 | 7,350,000 | 7,500,000 | 99 | 1758 | 0.086528359 | NOS1AP |
| 3 | 7,425,000 | 7,575,000 | 100 | 1090 | -0.826840865 | NOS1AP,OLFML2B,ENSBTAG00000046175 |
| 3 | 7,500,000 | 7,650,000 | 101 | 720 | -2.958332399 | ATF6,OLFML2B,ENSBTAG00000046175 |
| 3 | 7,575,000 | 7,725,000 | 102 | 732 | -1.37688597 | ATF6,OLFML2B |
| 3 | 7,650,000 | 7,800,000 | 103 | 754 | 0.713355993 | ATF6 |
| 3 | 7,725,000 | 7,875,000 | 104 | 946 | -0.746411275 | ATF6,DUSP12 |
| 3 | 7,800,000 | 7,950,000 | 105 | 1170 | -0.514340612 | ATF6,DUSP12,FCGR2,FCRLA,FCRLB |
| 3 | 7,875,000 | 8,025,000 | 106 | 1316 | 0.031082666 | FCGR2,FCGR3A,FCRLA,FCRLB |
| 3 | 7,950,000 | 8,100,000 | 107 | 1262 | 0.14949986 | FCGR2C,FCGR3A,HSPA6 |
| 3 | 8,025,000 | 8,175,000 | 108 | 1154 | -0.231596358 | C1ORF192,FCGR2C,HSPA6 |
| 3 | 8,100,000 | 8,250,000 | 109 | 1062 | -4.49E-06 | C1ORF192,MPZ,PCP4L1,SDHC |
| 3 | 8,175,000 | 8,325,000 | 110 | 977 | 0.506861655 | ADAMTS4,APOA2,C1ORF192,FCER1G,MPZ,NDUFS2,NR1I3,PCP4L1,SDHC,TOMM40L |
| 3 | 8,250,000 | 8,400,000 | 111 | 830 | -0.541071445 | ADAMTS4,APOA2,B4GALT3,DEDD,FCER1G,NDUFS2,NIT1,NR1I3,PCP4L1,PFDN2,PPOX,TOMM40L,UFC1,USP21 |
| 3 | 8,325,000 | 8,475,000 | 112 | 610 | -0.98353366 | ADAMTS4,ARHGAP30,B4GALT3,DEDD,KLHDC9,NIT1,PFDN2,PPOX,PVRL4,TSTD1,UFC1,USF1,USP21 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 8,400,000 | 8,550,000 | 113 | 510 | 0.164926574 | ARHGAP30,F11R,ITLN2,KLHDC9,PFDN2,PVRL4,TSTD1,USF1 |
| 3 | 8,475,000 | 8,625,000 | 114 | 1255 | 0.534905291 | F11R,ITLN2,ENSBTAG00000027775 |
| 3 | 8,550,000 | 8,700,000 | 115 | 1732 | -0.660692053 | ITLN2,ENSBTAG00000027775 |
| 3 | 8,625,000 | 8,775,000 | 116 | 1451 | -1.335355984 | ITLN2,ENSBTAG00000027775,ENSBTAG00000040437,ENSBTAG00000046231 |
| 3 | 8,700,000 | 8,850,000 | 117 | 1080 | -0.653764069 | CD244,LY9,ENSBTAG00000040437,ENSBTAG00000046231 |
| 3 | 8,775,000 | 8,925,000 | 118 | 659 | -0.541960685 | CD244,LY9,PIFO,ENSBTAG00000010458 |
| 3 | 8,850,000 | 9,000,000 | 119 | 744 | -0.543010869 | LY9,PIFO,SLAMF7,ENSBTAG00000010458,ENSBTAG000024849 |
| 3 | 8,925,000 | 9,075,000 | 120 | 798 | -0.930741493 | CD48,PIFO,SLAMF7,ENSBTAG00000024849 |
| 3 | 9,000,000 | 9,150,000 | 121 | 639 | 0.065703112 | CD48,SLAMF1 |
| 3 | 9,075,000 | 9,225,000 | 122 | 491 | 1.222322193 | CD84,SLAMF1 |
| 3 | 9,150,000 | 9,300,000 | 123 | 678 | 0.989700755 | CD84,SLAMF6 |
| 3 | 9,225,000 | 9,375,000 | 124 | 756 | 0.723208986 | CD84,SLAMF6 |
| 3 | 9,300,000 | 9,450,000 | 125 | 581 | 0.450599372 | NHLH1,VANGL2 |
| 3 | 9,375,000 | 9,525,000 | 126 | 612 | -1.049403285 | COPA,NCSTN,NHLH1,PEX19,VANGL2 |
| 3 | 9,450,000 | 9,600,000 | 127 | 538 | -2.065994834 | CASQ1,COPA,NCSTN,PEA15,PEX19,ENSBTAG00000005796 |
| 3 | 9,525,000 | 9,675,000 | 128 | 572 | -1.075831505 | ATP1A2,ATP1A4,CASQ1,PEA15,ENSBTAG00000005796 |
| 3 | 9,600,000 | 9,750,000 | 129 | 1079 | -0.219121826 | ATP1A2,ATP1A4,CASQ1,IGSF8,KCNJ10,KCNJ9 |
| 3 | 9,675,000 | 9,825,000 | 130 | 1685 | -0.200775081 | IGSF8,KCNJ10,KCNJ9,PIGM |
| 3 | 9,750,000 | 9,900,000 | 131 | 1577 | -1.150259324 | IGSF9,KCNJ10,PIGM,SLAMF9,TAGLN2 |
| 3 | 9,825,000 | 9,975,000 | 132 | 1103 | -1.380002885 | CCDC19,IGSF9,SLAMF8,SLAMF9,TAGLN2,VSIG8 |
| 3 | 9,900,000 | 10,050,000 | 133 | 1007 | -1.446551653 | CCDC19,DUSP23,FCRL6,SLAMF8,VSIG8 |
| 3 | 9,975,000 | 10,125,000 | 134 | 1224 | -0.764131883 | CRP,DUSP23,FCRL6,SLAMF8 |
| 3 | 10,050,000 | 10,200,000 | 135 | 1448 | 0.346884902 | CRP |
| 3 | 10,125,000 | 10,275,000 | 136 | 1874 | 0.420057945 | APCS,ENSBTAG00000046656 |
| 3 | 10,200,000 | 10,350,000 | 137 | 2031 | 0.642332563 | APCS,OR10J5,ENSBTAG00000046656 |
| 3 | 10,275,000 | 10,425,000 | 138 | 1768 | 0.71058473 | OR10J1,OR10J5,ENSBTAG00000019618 |
| 3 | 10,350,000 | 10,500,000 | 139 | 1416 | 0.314504261 | OR10J1,ENSBTAG00000019618,ENSBTAG00000020765 |
| 3 | 10,425,000 | 10,575,000 | 140 | 1302 | -0.405238155 | FCER1A,OR10J3,ENSBTAG00000020765 |
| 3 | 10,500,000 | 10,650,000 | 141 | 1552 | 0.45005558 | ACKR1,FCER1A,MPTX,OR10J3,ENSBTAG00000022528 |
| 3 | 10,575,000 | 10,725,000 | 142 | 1469 | 0.72574103 | ACKR1,CADM3,MPTX,ENSBTAG00000022528 |
| 3 | 10,650,000 | 10,800,000 | 143 | 1279 | 0.495077074 | CADM3 |
| 3 | 10,725,000 | 10,875,000 | 144 | 1090 | 1.128210382 | ENSBTAG00000011511 |
| 3 | 10,800,000 | 10,950,000 | 145 | 1122 | 1.156380379 | ENSBTAG00000011511 |
| 3 | 10,875,000 | 11,025,000 | 146 | 1659 | 1.121042506 | OR6N2,ENSBTAG00000020838,ENSBTAG00000048292 |
| 3 | 10,950,000 | 11,100,000 | 147 | 2048 | 1.000034494 | OR6K3,OR6K6,OR6N1,OR6N2,ENSBTAG00000020838,ENSBTAG00000038961,ENSBTAG00000048292 |
| 3 | 11,025,000 | 11,175,000 | 148 | 2144 | 0.500638668 | OR6K2,OR6K3,OR6K6,OR6N1,SPTA1,ENSBTAG00000038961 |
| 3 | 11,100,000 | 11,250,000 | 149 | 2004 | -1.239087732 | OR10Z1,OR6K2,SPTA1,ENSBTAG00000039653 |
| 3 | 11,175,000 | 11,325,000 | 150 | 1915 | -2.463515193 | OR10Z1,SPTA1,ENSBTAG00000038362,ENSBTAG0000038669,ENSBTAG00000039653,ENSBTAG00000047541 |
| 3 | 11,250,000 | 11,400,000 | 151 | 1647 | -1.907298615 | OR6P1,OR6Y1,ENSBTAG00000038362,ENSBTAG0000038669,ENSBTAG00000047541 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 11,325,000 | 11,475,000 | 152 | 1411 | -0.691661341 | OR10K2,OR6P1,OR6Y1,ENSBTAG00000022556,ENSBTAG00000023247 |
| 3 | 11,400,000 | 11,550,000 | 153 | 1304 | -0.224954747 | CD1A,OR10K2,OR10R2,ENSBTAG00000022556,ENSBTAG00000023247 |
| 3 | 11,475,000 | 11,625,000 | 154 | 1226 | 0.637421532 | CD1A,OR10R2,ENSBTAG00000037546 |
| 3 | 11,550,000 | 11,700,000 | 155 | 1499 | 0.839567311 | OR10T2,ENSBTAG00000037546,ENSBTAG00000037575,ENSBTAG00000037807 |
| 3 | 11,625,000 | 11,775,000 | 156 | 1579 | 0.589879228 | CD1B5,CD1E,OR10T2,ENSBTAG00000037575,ENSBTAG00000037807 |
| 3 | 11,700,000 | 11,850,000 | 157 | 1495 | 0.41275365 | CD1B3,CD1B5,CD1E,ENSBTAG0000000963 |
| 3 | 11,775,000 | 11,925,000 | 158 | 1400 | 0.659283901 | CD1B3,ENSBTAG0000000963,ENSBTAG00000026180,ENSBTAG00000038366,ENSBTAG00000038426,ENSBTAG00000039189 |
| 3 | 11,850,000 | 12,000,000 | 159 | 1615 | 0.844067373 | CD1A,CD1B3,ENSBTAG00000026180,ENSBTAG00000038366,ENSBTAG00000038426,ENSBTAG00000039189 |
| 3 | 11,925,000 | 12,075,000 | 160 | 1704 | 0.583280586 | CD1A |
| 3 | 12,000,000 | 12,150,000 | 161 | 1241 | 0.591907315 | CD1D,ENSBTAG00000047988 |
| 3 | 12,075,000 | 12,225,000 | 162 | 670 | 0.799870537 | CD1D,ENSBTAG00000039993,ENSBTAG00000047776,ENSBTAG00000047988 |
| 3 | 12,150,000 | 12,300,000 | 163 | 523 | -2.037030205 | ENSBTAG00000039993,ENSBTAG00000047776 |
| 3 | 12,225,000 | 12,375,000 | 164 | 620 | -2.861439833 | KIRREL |
| 3 | 12,300,000 | 12,450,000 | 165 | 771 | -1.502068412 | KIRREL |
| 3 | 12,375,000 | 12,525,000 | 166 | 1259 | 0.213755047 | FCRL2 |
| 3 | 12,450,000 | 12,600,000 | 167 | 1298 | 0.418299478 | CD5L,FCRL2 |
| 3 | 12,525,000 | 12,675,000 | 168 | 832 | 0.184681424 | CD5L,FCRL1 |
| 3 | 12,600,000 | 12,750,000 | 169 | 1018 | 0.868601561 | FCRL1,FCRL3 |
| 3 | 12,675,000 | 12,825,000 | 170 | 1197 | 1.0464631 | FCRL3 |
| 3 | 12,750,000 | 12,900,000 | 171 | 1024 | 0.95160279 | FCRL5 |
| 3 | 12,825,000 | 12,975,000 | 172 | 1336 | 0.642836286 | FCRL5 |
| 3 | 12,900,000 | 13,050,000 | 173 | 1420 | 0.461154349 | FCRL5 |
| 3 | 12,975,000 | 13,125,000 | 174 | 1201 | 0.379451249 | |
| 3 | 13,050,000 | 13,200,000 | 175 | 1419 | 0.08784124 | |
| 3 | 13,125,000 | 13,275,000 | 176 | 1726 | -0.481448395 | |
| 3 | 13,200,000 | 13,350,000 | 177 | 1740 | -1.077173649 | |
| 3 | 13,275,000 | 13,425,000 | 178 | 1950 | -0.407352453 | |
| 3 | 13,350,000 | 13,500,000 | 179 | 2074 | -0.283707721 | |
| 3 | 13,425,000 | 13,575,000 | 180 | 1712 | -2.613962797 | |
| 3 | 13,500,000 | 13,650,000 | 181 | 1829 | -1.551780458 | |
| 3 | 13,575,000 | 13,725,000 | 182 | 1710 | -0.866393583 | |
| 3 | 13,650,000 | 13,800,000 | 183 | 1066 | -1.6039912 | ETV3,ETV3L |
| 3 | 13,725,000 | 13,875,000 | 184 | 1122 | 0.152539845 | ETV3,ETV3L |
| 3 | 13,800,000 | 13,950,000 | 185 | 1174 | 0.474612891 | ARHGEF11 |
| 3 | 13,875,000 | 14,025,000 | 186 | 1138 | 0.128122801 | ARHGEF11,C3H1ORF92,NTRK1,PEAR1 |
| 3 | 13,950,000 | 14,100,000 | 187 | 1323 | 0.483610192 | ARHGEF11,C3H1ORF92,INSRR,NTRK1,PEAR1,PRCC,SH2D2A |
| 3 | 14,025,000 | 14,175,000 | 188 | 1266 | 0.944227012 | CRABP2,HDGF,INSRR,ISG20L2,MRPL24,NTRK1,PRCC,RRNAD1,SH2D2A |
| 3 | 14,100,000 | 14,250,000 | 189 | 1073 | 0.799804879 | BCAN,CRABP2,HDGF,ISG20L2,MRPL24,NES,PRCC,RRNAD1 |
| 3 | 14,175,000 | 14,325,000 | 190 | 1179 | -0.618510109 | APOA1BP,BCAN,CRABP2,GPATCH4,HAPLN2,IQGAP3,NES,TTC24 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 14,250,000 | 14,400,000 | 191 | 1009 | -1.022628188 | APOA1BP,GPATCH4,HAPLN2,IQGAP3,MEF2D,TTC24,ENSBTAG00000021649 |
| 3 | 14,325,000 | 14,475,000 | 192 | 604 | -0.47720852 | IQGAP3,MEF2D,ENSBTAG00000021649 |
| 3 | 14,400,000 | 14,550,000 | 193 | 715 | 0.099259177 | CCT3,MEF2D,RHBG,TSACC |
| 3 | 14,475,000 | 14,625,000 | 194 | 900 | 0.371521566 | BGLAP,C1orf85,CCT3,PAQR6,PMF1,RHBG,SMG5,TMEM79,TSACC |
| 3 | 14,550,000 | 14,700,000 | 195 | 1074 | 0.65940531 | BGLAP,C1orf85,CCT3,LMNA,PAQR6,PMF1,SEMA4A,SLC25A44,SMG5,TMEM79 |
| 3 | 14,625,000 | 14,775,000 | 196 | 839 | 0.304544761 | LAMTOR2,LMNA,MEX3A,PMF1,RAB25,SEMA4A,SLC25A44,UBQLN4 |
| 3 | 14,700,000 | 14,850,000 | 197 | 630 | 0.118913878 | ARHGEF2,LAMTOR2,LMNA,MEX3A,RAB25,SSR2,UBQLN4 |
| 3 | 14,775,000 | 14,925,000 | 198 | 1051 | 0.451372794 | ARHGEF2,KIAA0907,RIT1,RXFP4,SSR2,UBQLN4 |
| 3 | 14,850,000 | 15,000,000 | 199 | 1324 | 0.69772242 | ARHGEF2,KIAA0907,RIT1,RXFP4,SYT11,YY1AP1 |
| 3 | 14,925,000 | 15,075,000 | 200 | 1170 | -0.563546791 | GON4L,SYT11,YY1AP1 |
| 3 | 15,000,000 | 15,150,000 | 201 | 1062 | -2.004696878 | DAP3,GON4L,MSTO1 |
| 3 | 15,075,000 | 15,225,000 | 202 | 897 | -1.923355505 | ASH1L,DAP3,GON4L,MSTO1 |
| 3 | 15,150,000 | 15,300,000 | 203 | 737 | -2.455322903 | ASH1L |
| 3 | 15,225,000 | 15,375,000 | 204 | 740 | -3.679554709 | ASH1L,FDPS |
| 3 | 15,300,000 | 15,450,000 | 205 | 731 | -3.787216215 | ASH1L,CLK2,FAM189B,FDPS,GBA,HCN3,PKLR,SCAMP3 |
| 3 | 15,375,000 | 15,525,000 | 206 | 851 | -2.546945155 | CLK2,DPM3,EFNA1,FAM189B,GBA,HCN3,KRTCAP2,MTX1,MUC1,PKLR,SCAMP3,SLC50A1,THBS3,TRIM46 |
| 3 | 15,450,000 | 15,600,000 | 207 | 951 | -1.063831532 | ADAM15,DPM3,EFNA1,EFNA3,EFNA4,GBA,KRTCAP2,MTX1,MUC1,SLC50A1,THBS3,TRIM46 |
| 3 | 15,525,000 | 15,675,000 | 208 | 712 | 0.140730491 | ADAM15,CKS1B,DCST1,DCST2,EFNA1,EFNA3,EFNA4,FLAD1,LENEP,SHC1,ZBTB7B |
| 3 | 15,600,000 | 15,750,000 | 209 | 607 | 0.569851271 | ADAM15,CKS1B,DCST1,DCST2,FLAD1,LENEP,PBXIP1,PMVK,PYGO2,SHC1,ZBTB7B |
| 3 | 15,675,000 | 15,825,000 | 210 | 713 | 1.019571193 | KCNN3,PBXIP1,PMVK,PYGO2,SHC1 |
| 3 | 15,750,000 | 15,900,000 | 211 | 938 | 1.160313221 | KCNN3 |
| 3 | 15,825,000 | 15,975,000 | 212 | 1189 | 0.604236276 | KCNN3 |
| 3 | 15,900,000 | 16,050,000 | 213 | 1150 | 0.27542674 | ADAR,KCNN3 |
| 3 | 15,975,000 | 16,125,000 | 214 | 929 | -0.436772663 | ADAR,CHRN2,TDRD10,UBE2Q1 |
| 3 | 16,050,000 | 16,200,000 | 215 | 995 | -0.214310263 | ADAR,CHRN2,IL6R,SHE,TDRD10,UBE2Q1,ENSBTAG0000045672 |
| 3 | 16,125,000 | 16,275,000 | 216 | 1048 | 0.230773099 | ATP8B2,IL6R,SHE,TDRD10,ENSBTAG0000045672 |
| 3 | 16,200,000 | 16,350,000 | 217 | 618 | -0.869920802 | AQP10,ATP8B2,HAX1,IL6R,UBAP2L |
| 3 | 16,275,000 | 16,425,000 | 218 | 467 | -0.875522161 | AQP10,ATP8B2,C3H1orf189,HAX1,NUP210L,TPM3,UBAP2L,ENSBTAG0000020026 |
| 3 | 16,350,000 | 16,500,000 | 219 | 469 | 0.197024158 | C3H1orf189,NUP210L,TPM3,UBAP2L,ENSBTAG0000020026 |
| 3 | 16,425,000 | 16,575,000 | 220 | 430 | 0.542060268 | CREB3L4,CRTC2,DENND4B,JTB,NUP210L,RAB13,RPS25,RPS27,SLC39A1 |
| 3 | 16,500,000 | 16,650,000 | 221 | 453 | -0.068010668 | CREB3L4,CRTC2,DENND4B,GATAD2B,JTB,NUP210L,RAB13,RPS25,RPS27,SLC39A1 |
| 3 | 16,575,000 | 16,725,000 | 222 | 679 | 0.095264809 | GATAD2B,INTS3,SLC27A3 |
| 3 | 16,650,000 | 16,800,000 | 223 | 826 | 0.222864051 | ILF2,INTS3,NPR1,SLC27A3,SNAPIN |
| 3 | 16,725,000 | 16,875,000 | 224 | 893 | 0.395017994 | CHTOP,ILF2,NPR1,S100A1,S100A13,S100A14,S100A16,S100A2,SNAPIN |
| 3 | 16,800,000 | 16,950,000 | 225 | 931 | 0.845401425 | CHTOP,S100A1,S100A13,S100A14,S100A16,S100A2,S100A3,S100A4,S100A5 |
| 3 | 16,875,000 | 17,025,000 | 226 | 1183 | 1.124509957 | S100A3,S100A4,S100A5,S100A7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 16,950,000 | 17,100,000 | 227 | 1565 | 0.781296433 | S100A7,ENSBTAG00000033007 |
| 3 | 17,025,000 | 17,175,000 | 228 | 1329 | 0.199528327 | S100A12,S100A8,ENSBTAG00000024437,ENSBTAG0000033007 |
| 3 | 17,100,000 | 17,250,000 | 229 | 1347 | -1.180682563 | PGLYRP3,S100A12,S100A8,S100A9,ENSBTAG00000024437 |
| 3 | 17,175,000 | 17,325,000 | 230 | 1520 | -2.200228193 | LOR,PGLYRP3,S100A9,ENSBTAG00000039487 |
| 3 | 17,250,000 | 17,400,000 | 231 | 1104 | -1.994765965 | LLEP1,LOR,ENSBTAG00000039487 |
| 3 | 17,325,000 | 17,475,000 | 232 | 768 | -1.234762754 | LLEP1,ENSBTAG00000039487 |
| 3 | 17,400,000 | 17,550,000 | 233 | 748 | -0.760813526 | |
| 3 | 17,475,000 | 17,625,000 | 234 | 984 | 0.415357883 | |
| 3 | 17,550,000 | 17,700,000 | 235 | 1342 | 0.339795569 | |
| 3 | 17,625,000 | 17,775,000 | 236 | 1140 | 0.602233881 | |
| 3 | 17,700,000 | 17,850,000 | 237 | 851 | -2.347996823 | SPRR3 |
| 3 | 17,775,000 | 17,925,000 | 238 | 782 | -2.885662506 | IVL,SMCP,SPRR3 |
| 3 | 17,850,000 | 18,000,000 | 239 | 960 | 0.263514481 | IVL,SMCP |
| 3 | 17,925,000 | 18,075,000 | 240 | 1371 | 0.313456502 | KPRP |
| 3 | 18,000,000 | 18,150,000 | 241 | 1375 | -0.084118366 | C1orf68,KPRP |
| 3 | 18,075,000 | 18,225,000 | 242 | 1093 | -0.054672623 | C1orf68,CRCT1 |
| 3 | 18,150,000 | 18,300,000 | 243 | 646 | -0.421792293 | CRCT1,ENSBTAG00000032446 |
| 3 | 18,225,000 | 18,375,000 | 244 | 847 | -2.432721462 | CRNN,ENSBTAG00000032446 |
| 3 | 18,300,000 | 18,450,000 | 245 | 913 | -2.989827466 | CRNN,FLG2 |
| 3 | 18,375,000 | 18,525,000 | 246 | 475 | -5.194104837 | FLG2,ENSBTAG00000039357 |
| 3 | 18,450,000 | 18,600,000 | 247 | 583 | -4.422860064 | FLG2,ENSBTAG00000039357 |
| 3 | 18,525,000 | 18,675,000 | 248 | 770 | -1.606636507 | RPTN |
| 3 | 18,600,000 | 18,750,000 | 249 | 633 | 0.371345751 | RPTN,TCHHL1 |
| 3 | 18,675,000 | 18,825,000 | 250 | 681 | 0.383031771 | S100A10,S100A11,TCHHL1 |
| 3 | 18,750,000 | 18,900,000 | 251 | 878 | 0.370997603 | S100A10,S100A11,THEM4 |
| 3 | 18,825,000 | 18,975,000 | 252 | 638 | 0.775782471 | THEM4,THEM5 |
| 3 | 18,900,000 | 19,050,000 | 253 | 388 | 0.776160796 | C2CD4D,LINGO4,RORC,TDRKH,THEM4,THEM5 |
| 3 | 18,975,000 | 19,125,000 | 254 | 422 | 1.098248415 | C2CD4D,LINGO4,MRPL9,OAZ3,RIAD1,RORC,TDRKH,TNRC4 |
| 3 | 19,050,000 | 19,200,000 | 255 | 572 | 1.214761918 | MRPL9,OAZ3,RIAD1,SNX27,TDRKH,TNRC4 |
| 3 | 19,125,000 | 19,275,000 | 256 | 574 | 0.981065271 | SNX27,TUFT1 |
| 3 | 19,200,000 | 19,350,000 | 257 | 542 | 1.06930763 | CGN,SNX27,TUFT1 |
| 3 | 19,275,000 | 19,425,000 | 258 | 427 | 1.020917021 | CGN,POGZ,PSMB4,TUFT1 |
| 3 | 19,350,000 | 19,500,000 | 259 | 310 | 0.593702915 | POGZ,PSMB4,SELENBP1 |
| 3 | 19,425,000 | 19,575,000 | 260 | 328 | 0.599831532 | PI4KB,RFX5,SELENBP1,ZNF687 |
| 3 | 19,500,000 | 19,650,000 | 261 | 363 | 0.602592373 | PI4KB,PIP5K1A,PSMD4,RFX5,ZNF687,ENSBTAG00000019709 |
| 3 | 19,575,000 | 19,725,000 | 262 | 404 | -0.398942758 | LYSMD1,PIP5K1A,PSMD4,SCNM1,SEMA6C,TMOD4,TNFAIP8L2,VPS72,ENSBTAG00000019709 |
| 3 | 19,650,000 | 19,800,000 | 263 | 431 | -0.798652303 | BNIP1,C1orf56,CDC42SE1,GABPB2,LYSMD1,MLLT11,PI5K1A,PRUNE,SCNM1,SEMA6C,TMOD4,TNFAIP8L2,VPS72 |
| 3 | 19,725,000 | 19,875,000 | 264 | 407 | -1.611597613 | ANXA9,BNIP1,C1orf56,CDC42SE1,CERS2,FAM63A,GABPB2,MLLT11,PRUNE,SEMA6C,SETDB1 |
| 3 | 19,800,000 | 19,950,000 | 265 | 469 | -1.466565069 | ANXA9,CERS2,FAM63A,PRUNE,SETDB1 |
| 3 | 19,875,000 | 20,025,000 | 266 | 586 | -1.124583551 | ARNT,CTSK,CTSS,SETDB1 |
| 3 | 19,950,000 | 20,100,000 | 267 | 602 | -1.529338761 | ARNT,CTSK,CTSS,GOLPH3L,HORMAD1 |
| 3 | 20,025,000 | 20,175,000 | 268 | 693 | -0.41406922 | CTSS,ENSA,GOLPH3L,HORMAD1,MCL1 |
| 3 | 20,100,000 | 20,250,000 | 269 | 579 | 0.006617304 | ADAMTSL4,ECM1,ENSA,GOLPH3L,MCL1,TARS2 |
| 3 | 20,175,000 | 20,325,000 | 270 | 346 | -0.080769953 | ADAMTSL4,ECM1,MCL1,RPRD2,TARS2 |
| 3 | 20,250,000 | 20,400,000 | 271 | 268 | -0.024243805 | MRPS21,PRPF3,RPRD2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 20,325,000 | 20,475,000 | 272 | 190 | -0.571769463 | ANP32E,APH1A,C1orf54,CA14,CIART,MRPS21,PRPF3,RPD2 |
| 3 | 20,400,000 | 20,550,000 | 273 | 350 | -1.396662981 | ANP32E,APH1A,C1orf54,CA14,CIART,PLEKHO1,VPS45 |
| 3 | 20,475,000 | 20,625,000 | 274 | 638 | -0.690686463 | PLEKHO1,VPS45 |
| 3 | 20,550,000 | 20,700,000 | 275 | 727 | 0.014376078 | OTUD7B,VPS45 |
| 3 | 20,625,000 | 20,775,000 | 276 | 645 | -0.983252099 | BOLA1,H2B,HIST2H2AB,MTMR11,OTUD7B,SF3B4,SV2A,ENSBTAG00000040098 |
| 3 | 20,700,000 | 20,850,000 | 277 | 626 | -2.815445414 | BOLA1,FCGR1A,H2B,HIST2H2AB,HIST2H2AC,MTMR11,OTUD7B,SF3B4,SV2A,ENSBTAG00000032452,ENSBTAG00000032453,ENSBTAG00000032458,ENSBTAG00000040098,ENSBTAG00000046368 |
| 3 | 20,775,000 | 20,925,000 | 278 | 749 | -2.59147774 | FCGR1A,H2B,HIST2H2AC,MGC152321,ENSBTAG00000032452,ENSBTAG00000032453,ENSBTAG00000032458,ENSBTAG00000046368 |
| 3 | 20,850,000 | 21,000,000 | 279 | 923 | -0.294005504 | FCGR1A,MGC152321,ENSBTAG00000022741 |
| 3 | 20,925,000 | 21,075,000 | 280 | 1082 | 0.447942679 | ENSBTAG00000022741 |
| 3 | 21,000,000 | 21,150,000 | 281 | 954 | 0.367556717 | |
| 3 | 21,075,000 | 21,225,000 | 282 | 805 | 0.651104246 | |
| 3 | 21,150,000 | 21,300,000 | 283 | 795 | 0.949646664 | |
| 3 | 21,225,000 | 21,375,000 | 284 | 804 | 1.058845844 | |
| 3 | 21,300,000 | 21,450,000 | 285 | 613 | 1.142236863 | |
| 3 | 21,375,000 | 21,525,000 | 286 | 367 | 0.717591928 | ANKRD34A,HFE2,LIX1L,POLR3GL,TXNIP |
| 3 | 21,450,000 | 21,600,000 | 287 | 319 | 0.420827144 | ANKRD34A,ANKRD35,HFE2,ITGA10,LIX1L,PEX11B,POLR3GL,RBM8A,TXNIP,ENSBTAG00000008370 |
| 3 | 21,525,000 | 21,675,000 | 288 | 314 | 0.284539102 | ANKRD35,ITGA10,LIX1L,NUDT17,PEX11B,PIAS3,POLR3C,RBM8A,RNF115,ENSBTAG00000008370 |
| 3 | 21,600,000 | 21,750,000 | 289 | 405 | 0.415814854 | ANKRD35,NUDT17,PIAS3,POLR3C,RNF115 |
| 3 | 21,675,000 | 21,825,000 | 290 | 438 | 0.130789197 | GPR89,PDZK1,RNF115 |
| 3 | 21,750,000 | 21,900,000 | 291 | 444 | -0.084011319 | GJA8,GPR89,PDZK1 |
| 3 | 21,825,000 | 21,975,000 | 292 | 743 | 0.515367099 | GJA8,GPR89 |
| 3 | 21,900,000 | 22,050,000 | 293 | 1147 | 0.55716799 | GJA5 |
| 3 | 21,975,000 | 22,125,000 | 294 | 833 | 0.152680323 | ACP6,BCL9,GJA5 |
| 3 | 22,050,000 | 22,200,000 | 295 | 521 | -0.13951247 | ACP6,BCL9 |
| 3 | 22,125,000 | 22,275,000 | 296 | 704 | -0.329748014 | |
| 3 | 22,200,000 | 22,350,000 | 297 | 1211 | -0.988255378 | ENSBTAG00000046242,ENSBTAG00000046872 |
| 3 | 22,275,000 | 22,425,000 | 298 | 1309 | -1.600408528 | ENSBTAG00000046242,ENSBTAG00000046872 |
| 3 | 22,350,000 | 22,500,000 | 299 | 1131 | -1.894234583 | CHD1L,ENSBTAG00000046766 |
| 3 | 22,425,000 | 22,575,000 | 300 | 1315 | -1.090364078 | CHD1L,FMO5,ENSBTAG00000046766 |
| 3 | 22,500,000 | 22,650,000 | 301 | 972 | -0.788335816 | CHD1L,FMO5,PRKAB2 |
| 3 | 22,575,000 | 22,725,000 | 302 | 826 | -0.22735671 | FMO5,PRKAB2 |
| 3 | 22,650,000 | 22,800,000 | 303 | 1309 | -0.17334616 | ENSBTAG00000021104 |
| 3 | 22,725,000 | 22,875,000 | 304 | 1653 | -0.003121325 | ENSBTAG00000021104 |
| 3 | 22,800,000 | 22,950,000 | 305 | 1663 | 0.395039039 | PDE4DIP,ENSBTAG00000017316 |
| 3 | 22,875,000 | 23,025,000 | 306 | 1580 | 0.798270669 | PDE4DIP,ENSBTAG00000017316 |
| 3 | 22,950,000 | 23,100,000 | 307 | 1430 | 0.940342831 | PDE4DIP |
| 3 | 23,025,000 | 23,175,000 | 308 | 1274 | 0.517126672 | PDE4DIP |
| 3 | 23,100,000 | 23,250,000 | 309 | 1093 | -0.013871289 | SEC22B,ENSBTAG00000047910 |
| 3 | 23,175,000 | 23,325,000 | 310 | 1098 | -0.188426 | NOTCH2,SEC22B,ENSBTAG00000047910 |
| 3 | 23,250,000 | 23,400,000 | 311 | 993 | 0.286608892 | NOTCH2 |
| 3 | 23,325,000 | 23,475,000 | 312 | 821 | 0.613638548 | NOTCH2 |
| 3 | 23,400,000 | 23,550,000 | 313 | 1154 | 0.333057135 | NOTCH2,ENSBTAG0000006903,ENSBTAG00000046315 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 23,475,000 | 23,625,000 | 314 | 1391 | 0.637288238 | NOTCH2,REG4,ENSBTAG00000006903,ENSBTAG00000046293,ENSBTAG00000046315 |
| 3 | 23,550,000 | 23,700,000 | 315 | 1293 | -0.260119308 | HMGCS2,PHGDH,REG4,ENSBTAG00000046293 |
| 3 | 23,625,000 | 23,775,000 | 316 | 847 | -1.463987889 | HMGCS2,PHGDH |
| 3 | 23,700,000 | 23,850,000 | 317 | 549 | -0.494311984 | HAO2,HSD3B,PHGDH,ZNF697 |
| 3 | 23,775,000 | 23,925,000 | 318 | 606 | -0.436699177 | HAO2,HSD3B,ZNF697 |
| 3 | 23,850,000 | 24,000,000 | 319 | 788 | -0.50377545 | HAO2 |
| 3 | 23,925,000 | 24,075,000 | 320 | 1065 | -0.180934668 | |
| 3 | 24,000,000 | 24,150,000 | 321 | 989 | -0.423463343 | WARS2 |
| 3 | 24,075,000 | 24,225,000 | 322 | 737 | -0.236882035 | WARS2 |
| 3 | 24,150,000 | 24,300,000 | 323 | 638 | -0.183746464 | TBX15,WARS2 |
| 3 | 24,225,000 | 24,375,000 | 324 | 804 | 0.498555173 | TBX15 |
| 3 | 24,300,000 | 24,450,000 | 325 | 1026 | 0.688018517 | TBX15 |
| 3 | 24,375,000 | 24,525,000 | 326 | 963 | 0.199796462 | |
| 3 | 24,450,000 | 24,600,000 | 327 | 1130 | -0.978135936 | |
| 3 | 24,525,000 | 24,675,000 | 328 | 1246 | -0.21823305 | |
| 3 | 24,600,000 | 24,750,000 | 329 | 1048 | -0.154512305 | |
| 3 | 24,675,000 | 24,825,000 | 330 | 1131 | 0.330792057 | |
| 3 | 24,750,000 | 24,900,000 | 331 | 1206 | 0.887132199 | |
| 3 | 24,825,000 | 24,975,000 | 332 | 1066 | 0.218369895 | |
| 3 | 24,900,000 | 25,050,000 | 333 | 1130 | -0.844746711 | |
| 3 | 24,975,000 | 25,125,000 | 334 | 1421 | -0.677204603 | SPAG17 |
| 3 | 25,050,000 | 25,200,000 | 335 | 1216 | 0.007624188 | SPAG17 |
| 3 | 25,125,000 | 25,275,000 | 336 | 731 | 0.343058255 | SPAG17 |
| 3 | 25,200,000 | 25,350,000 | 337 | 658 | 0.685472596 | SPAG17 |
| 3 | 25,275,000 | 25,425,000 | 338 | 1092 | 0.329289772 | GDAP2,SPAG17,WDR3 |
| 3 | 25,350,000 | 25,500,000 | 339 | 1228 | 0.426027996 | GDAP2,SPAG17,WDR3 |
| 3 | 25,425,000 | 25,575,000 | 340 | 996 | 0.298751946 | GDAP2 |
| 3 | 25,500,000 | 25,650,000 | 341 | 1086 | -0.430641707 | |
| 3 | 25,575,000 | 25,725,000 | 342 | 980 | -0.658003716 | FAM46C |
| 3 | 25,650,000 | 25,800,000 | 343 | 898 | 0.186034925 | FAM46C |
| 3 | 25,725,000 | 25,875,000 | 344 | 1188 | 0.381316773 | MAN1A2 |
| 3 | 25,800,000 | 25,950,000 | 345 | 1457 | -0.628240305 | MAN1A2 |
| 3 | 25,875,000 | 26,025,000 | 346 | 1288 | -0.424394004 | MAN1A2 |
| 3 | 25,950,000 | 26,100,000 | 347 | 1203 | 0.574951797 | MAN1A2 |
| 3 | 26,025,000 | 26,175,000 | 348 | 1490 | 0.49224465 | VTCN1 |
| 3 | 26,100,000 | 26,250,000 | 349 | 1418 | 0.195556893 | TRIM45,TTF2,VTCN1 |
| 3 | 26,175,000 | 26,325,000 | 350 | 1232 | 0.490483018 | CD101,TRIM45,TTF2,VTCN1 |
| 3 | 26,250,000 | 26,400,000 | 351 | 1090 | 0.828182531 | CD101,PTGFRN,TTF2 |
| 3 | 26,325,000 | 26,475,000 | 352 | 858 | 0.135014978 | CD101,PTGFRN |
| 3 | 26,400,000 | 26,550,000 | 353 | 784 | -0.710196528 | PTGFRN |
| 3 | 26,475,000 | 26,625,000 | 354 | 800 | -1.052866543 | CD2 |
| 3 | 26,550,000 | 26,700,000 | 355 | 756 | -1.142867308 | CD2 |
| 3 | 26,625,000 | 26,775,000 | 356 | 1004 | -0.797930362 | IGSF3 |
| 3 | 26,700,000 | 26,850,000 | 357 | 873 | -0.365830489 | CD58,IGSF3 |
| 3 | 26,775,000 | 26,925,000 | 358 | 602 | 0.123020183 | CD58,IGSF3 |
| 3 | 26,850,000 | 27,000,000 | 359 | 1046 | 0.340920906 | CD58 |
| 3 | 26,925,000 | 27,075,000 | 360 | 999 | 0.25792481 | ATP1A1 |
| 3 | 27,000,000 | 27,150,000 | 361 | 706 | -0.884425757 | ATP1A1 |
| 3 | 27,075,000 | 27,225,000 | 362 | 846 | -0.41603792 | |
| 3 | 27,150,000 | 27,300,000 | 363 | 1202 | 0.852431042 | |
| 3 | 27,225,000 | 27,375,000 | 364 | 1253 | 0.790036162 | MAB21L3 |
| 3 | 27,300,000 | 27,450,000 | 365 | 802 | 0.510153517 | MAB21L3,SLC22A15 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 27,375,000 | 27,525,000 | 366 | 603 | 0.565468191 | SLC22A15 |
| 3 | 27,450,000 | 27,600,000 | 367 | 892 | -1.504871354 | NHLH2,SLC22A15 |
| 3 | 27,525,000 | 27,675,000 | 368 | 1219 | -0.466033054 | CASQ2,NHLH2 |
| 3 | 27,600,000 | 27,750,000 | 369 | 1201 | 0.641770872 | CASQ2,VANGL1 |
| 3 | 27,675,000 | 27,825,000 | 370 | 1438 | 0.739157307 | CASQ2,VANGL1 |
| 3 | 27,750,000 | 27,900,000 | 371 | 1518 | -0.778217652 | VANGL1 |
| 3 | 27,825,000 | 27,975,000 | 372 | 1206 | -2.118388171 | |
| 3 | 27,900,000 | 28,050,000 | 373 | 1205 | 1.068775063 | |
| 3 | 27,975,000 | 28,125,000 | 374 | 1216 | 1.261671197 | NGF |
| 3 | 28,050,000 | 28,200,000 | 375 | 1159 | 1.247189835 | NGF |
| 3 | 28,125,000 | 28,275,000 | 376 | 1047 | 1.048117221 | NGF |
| 3 | 28,200,000 | 28,350,000 | 377 | 1017 | 0.846922717 | |
| 3 | 28,275,000 | 28,425,000 | 378 | 1089 | 1.073139484 | TSHB,TSPAN2 |
| 3 | 28,350,000 | 28,500,000 | 379 | 972 | 1.44691857 | SYCP1,TSHB,TSPAN2 |
| 3 | 28,425,000 | 28,575,000 | 380 | 877 | 1.521978236 | SYCP1,TSPAN2 |
| 3 | 28,500,000 | 28,650,000 | 381 | 948 | 1.484445584 | SYCP1,ENSBTAG00000032057 |
| 3 | 28,575,000 | 28,725,000 | 382 | 923 | 1.361581424 | CSDE1,NRAS,SIKE1,SYCP1,ENSBTAG00000032057 |
| 3 | 28,650,000 | 28,800,000 | 383 | 861 | 1.232172704 | AMPD1,CSDE1,NRAS,SIKE1,ENSBTAG00000045889 |
| 3 | 28,725,000 | 28,875,000 | 384 | 590 | 1.276653022 | AMPD1,BCAS2,DENND2C,NRAS,ENSBTAG00000045889 |
| 3 | 28,800,000 | 28,950,000 | 385 | 417 | 1.154534164 | BCAS2,DENND2C,TRIM33 |
| 3 | 28,875,000 | 29,025,000 | 386 | 625 | 0.844230555 | BCAS2,TRIM33 |
| 3 | 28,950,000 | 29,100,000 | 387 | 501 | 0.778266656 | TRIM33 |
| 3 | 29,025,000 | 29,175,000 | 388 | 758 | -0.008067723 | TRIM33 |
| 3 | 29,100,000 | 29,250,000 | 389 | 1526 | 0.255424954 | |
| 3 | 29,175,000 | 29,325,000 | 390 | 1642 | 0.780685092 | |
| 3 | 29,250,000 | 29,400,000 | 391 | 1418 | 1.092209282 | SYT6 |
| 3 | 29,325,000 | 29,475,000 | 392 | 1221 | 0.844599455 | SYT6 |
| 3 | 29,400,000 | 29,550,000 | 393 | 1034 | 0.493757102 | HIPK1,OLFML3,SYT6 |
| 3 | 29,475,000 | 29,625,000 | 394 | 850 | 0.571575756 | AP4B1,DCLRE1B,HIPK1,OLFML3 |
| 3 | 29,550,000 | 29,700,000 | 395 | 971 | 0.628286209 | AP4B1,BCL2L15,DCLRE1B,HIPK1,PTPN22 |
| 3 | 29,625,000 | 29,775,000 | 396 | 1110 | 1.02590476 | AP4B1,BCL2L15,PHTF1,PTPN22,RSBN1 |
| 3 | 29,700,000 | 29,850,000 | 397 | 1293 | 1.206483828 | MAGI3,PHTF1,PTPN22,RSBN1 |
| 3 | 29,775,000 | 29,925,000 | 398 | 1290 | 0.956773805 | MAGI3,PHTF1 |
| 3 | 29,850,000 | 30,000,000 | 399 | 862 | 0.656017942 | MAGI3 |
| 3 | 29,925,000 | 30,075,000 | 400 | 827 | 0.658798947 | MAGI3 |
| 3 | 30,000,000 | 30,150,000 | 401 | 940 | 0.663706338 | MAGI3 |
| 3 | 30,075,000 | 30,225,000 | 402 | 740 | 0.940790946 | MAGI3 |
| 3 | 30,150,000 | 30,300,000 | 403 | 466 | 1.098617268 | |
| 3 | 30,225,000 | 30,375,000 | 404 | 1069 | 0.777119335 | LRIG2,ENSBTAG00000027172 |
| 3 | 30,300,000 | 30,450,000 | 405 | 1313 | 0.78426584 | LRIG2,ENSBTAG00000027172 |
| 3 | 30,375,000 | 30,525,000 | 406 | 836 | -0.491315396 | LRIG2 |
| 3 | 30,450,000 | 30,600,000 | 407 | 774 | -1.449647264 | SLC16A1 |
| 3 | 30,525,000 | 30,675,000 | 408 | 810 | -0.702279592 | SLC16A1 |
| 3 | 30,600,000 | 30,750,000 | 409 | 729 | -0.283500339 | |
| 3 | 30,675,000 | 30,825,000 | 410 | 612 | 0.25904415 | CAPZA1,MOV10,PPM1J,RHOC |
| 3 | 30,750,000 | 30,900,000 | 411 | 552 | 0.33045796 | CAPZA1,MOV10,PPM1J,RHOC,ST7L |
| 3 | 30,825,000 | 30,975,000 | 412 | 521 | 0.173247064 | CAPZA1,ST7L,WNT2B |
| 3 | 30,900,000 | 31,050,000 | 413 | 648 | 0.122380351 | CTTNBP2NL,ST7L,WNT2B |
| 3 | 30,975,000 | 31,125,000 | 414 | 1131 | 0.70381365 | CTTNBP2NL |
| 3 | 31,050,000 | 31,200,000 | 415 | 1205 | 0.518525718 | |
| 3 | 31,125,000 | 31,275,000 | 416 | 868 | 0.13632745 | |
| 3 | 31,200,000 | 31,350,000 | 417 | 822 | 0.672666271 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 31,275,000 | 31,425,000 | 418 | 1211 | 0.917316138 | |
| 3 | 31,350,000 | 31,500,000 | 419 | 1306 | 0.816326171 | KCND3 |
| 3 | 31,425,000 | 31,575,000 | 420 | 947 | 0.594869258 | KCND3 |
| 3 | 31,500,000 | 31,650,000 | 421 | 830 | 0.547691842 | KCND3 |
| 3 | 31,575,000 | 31,725,000 | 422 | 833 | -0.196730271 | DDX20,FAM212B,KCND3 |
| 3 | 31,650,000 | 31,800,000 | 423 | 785 | -1.015876774 | DDX20,FAM212B,KCND3,RAP1A |
| 3 | 31,725,000 | 31,875,000 | 424 | 720 | -0.463284618 | FAM212B,RAP1A |
| 3 | 31,800,000 | 31,950,000 | 425 | 780 | 0.563719828 | ADORA3 |
| 3 | 31,875,000 | 32,025,000 | 426 | 819 | 0.780749187 | ADORA3,ATP5F1,WDR77 |
| 3 | 31,950,000 | 32,100,000 | 427 | 1318 | 0.179061228 | ADORA3,ATP5F1,OVGP1,WDR77,ENSBTAG00000034841 |
| 3 | 32,025,000 | 32,175,000 | 428 | 1483 | -0.010514141 | OVGP1,WDR77,ENSBTAG00000023535,ENSBTAG0000034841 |
| 3 | 32,100,000 | 32,250,000 | 429 | 1002 | 0.044656835 | CHIA,ENSBTAG00000023535 |
| 3 | 32,175,000 | 32,325,000 | 430 | 640 | -0.511532365 | CHI3L2,CHIA,DENND2D |
| 3 | 32,250,000 | 32,400,000 | 431 | 423 | -2.181390146 | CEPT1,CHI3L2,DENND2D,DRAM2 |
| 3 | 32,325,000 | 32,475,000 | 432 | 437 | -1.577343651 | CEPT1,DENND2D,DRAM2 |
| 3 | 32,400,000 | 32,550,000 | 433 | 479 | -0.79978868 | DRAM2,LRIF1 |
| 3 | 32,475,000 | 32,625,000 | 434 | 532 | -0.804876772 | CD53,LRIF1 |
| 3 | 32,550,000 | 32,700,000 | 435 | 696 | 0.089779558 | CD53 |
| 3 | 32,625,000 | 32,775,000 | 436 | 1006 | 0.901192056 | CD53 |
| 3 | 32,700,000 | 32,850,000 | 437 | 838 | 0.692740191 | |
| 3 | 32,775,000 | 32,925,000 | 438 | 429 | 0.661340654 | KCNA3 |
| 3 | 32,850,000 | 33,000,000 | 439 | 381 | 0.704839362 | KCNA2,KCNA3 |
| 3 | 32,925,000 | 33,075,000 | 440 | 627 | 0.326969183 | CYM,KCNA10,KCNA2 |
| 3 | 33,000,000 | 33,150,000 | 441 | 808 | 0.392210093 | CYM,KCNA10,LAMTOR5,PROK1 |
| 3 | 33,075,000 | 33,225,000 | 442 | 668 | 0.604177286 | LAMTOR5,PROK1,RBM15,SLC16A4 |
| 3 | 33,150,000 | 33,300,000 | 443 | 616 | 0.635052155 | RBM15,SLC16A4 |
| 3 | 33,225,000 | 33,375,000 | 444 | 748 | 0.217849004 | KCNC4,SLC6A17 |
| 3 | 33,300,000 | 33,450,000 | 445 | 917 | 0.241806015 | KCNC4,SLC6A17,UBL4B |
| 3 | 33,375,000 | 33,525,000 | 446 | 850 | 0.286477489 | AHCYL1,ALX3,STRIP1,UBL4B |
| 3 | 33,450,000 | 33,600,000 | 447 | 664 | -0.758289864 | AHCYL1,ALX3,STRIP1 |
| 3 | 33,525,000 | 33,675,000 | 448 | 674 | -1.006303681 | AHCYL1,CSF1 |
| 3 | 33,600,000 | 33,750,000 | 449 | 813 | -1.246082088 | CSF1,EPS8L3 |
| 3 | 33,675,000 | 33,825,000 | 450 | 879 | -0.377204263 | EPS8L3,GSTM1,GSTM2,GSTM3 |
| 3 | 33,750,000 | 33,900,000 | 451 | 919 | 0.836602139 | EPS8L3,GSTM1,GSTM2,GSTM3,GSTM4,ENSBTAG0000012692 |
| 3 | 33,825,000 | 33,975,000 | 452 | 859 | 0.612197367 | AMPD2,GNAI3,GNAT2,GSTM2,GSTM4,ENSBTAG0000012692 |
| 3 | 33,900,000 | 34,050,000 | 453 | 669 | 0.286350445 | AMPD2,GNAI3,GNAT2,GPR61 |
| 3 | 33,975,000 | 34,125,000 | 454 | 612 | 0.074827732 | AMIGO1,ATXN7L2,CYB561D1,GNAI3,GPR61,SYPL2 |
| 3 | 34,050,000 | 34,200,000 | 455 | 591 | -0.818113537 | AMIGO1,ATXN7L2,CYB561D1,PSMA5,SORT1,SYPL2 |
| 3 | 34,125,000 | 34,275,000 | 456 | 595 | -0.915553125 | CELSR2,MYBPHL,PSMA5,PSRC1,SORT1 |
| 3 | 34,200,000 | 34,350,000 | 457 | 546 | 0.260720177 | CELSR2,KIAA1324,MYBPHL,PSRC1,SARS,SORT1 |
| 3 | 34,275,000 | 34,425,000 | 458 | 391 | 0.21616457 | C1orf194,KIAA1324,SARS,TAF13,TMEM167B |
| 3 | 34,350,000 | 34,500,000 | 459 | 399 | 0.989748529 | C1orf194,KIAA1324,TAF13,TMEM167B,WDR47 |
| 3 | 34,425,000 | 34,575,000 | 460 | 505 | 1.129277025 | CLCC1,GPSM2,TAF13,WDR47 |
| 3 | 34,500,000 | 34,650,000 | 461 | 707 | 0.392074247 | CLCC1,GPSM2,WDR47,ENSBTAG00000007333 |
| 3 | 34,575,000 | 34,725,000 | 462 | 890 | -0.795489641 | GPSM2,STXBP3,ENSBTAG00000007333 |
| 3 | 34,650,000 | 34,800,000 | 463 | 796 | -1.360115657 | FNDC7,PRPF38B,STXBP3,ENSBTAG00000007333 |
| 3 | 34,725,000 | 34,875,000 | 464 | 606 | -1.506424082 | FAM102B,FNDC7,HENMT1,PRPF38B,STXBP3 |
| 3 | 34,800,000 | 34,950,000 | 465 | 712 | -1.228457011 | FAM102B,HENMT1 |
| 3 | 34,875,000 | 35,025,000 | 466 | 1009 | 0.450258749 | FAM102B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------|
| 3 | 34,950,000 | 35,100,000 | 467 | 1398 | 0.699259649 | |
| 3 | 35,025,000 | 35,175,000 | 468 | 1790 | 0.907332377 | SLC25A24 |
| 3 | 35,100,000 | 35,250,000 | 469 | 1744 | 1.368095646 | SLC25A24 |
| 3 | 35,175,000 | 35,325,000 | 470 | 1171 | 1.43452594 | SLC25A24 |
| 3 | 35,250,000 | 35,400,000 | 471 | 794 | 0.882202104 | |
| 3 | 35,325,000 | 35,475,000 | 472 | 1064 | 0.615625515 | VAV3 |
| 3 | 35,400,000 | 35,550,000 | 473 | 1257 | 0.637029758 | VAV3 |
| 3 | 35,475,000 | 35,625,000 | 474 | 1033 | 0.334586093 | VAV3 |
| 3 | 35,550,000 | 35,700,000 | 475 | 1036 | 0.051190945 | VAV3 |
| 3 | 35,625,000 | 35,775,000 | 476 | 1164 | 0.078853688 | VAV3 |
| 3 | 35,700,000 | 35,850,000 | 477 | 847 | -0.465400682 | VAV3 |
| 3 | 35,775,000 | 35,925,000 | 478 | 509 | -1.30703322 | VAV3 |
| 3 | 35,850,000 | 36,000,000 | 479 | 826 | -1.376380177 | MGC139448,VAV3 |
| 3 | 35,925,000 | 36,075,000 | 480 | 1079 | -0.870882559 | MGC139448 |
| 3 | 36,000,000 | 36,150,000 | 481 | 1128 | 0.793625982 | MGC139448 |
| 3 | 36,075,000 | 36,225,000 | 482 | 1165 | 1.108166643 | MGC139448 |
| 3 | 36,150,000 | 36,300,000 | 483 | 1119 | 1.165692641 | MGC139448 |
| 3 | 36,225,000 | 36,375,000 | 484 | 1423 | 0.74815072 | MGC139448 |
| 3 | 36,300,000 | 36,450,000 | 485 | 1659 | 0.096784646 | MGC139448,PRMT6 |
| 3 | 36,375,000 | 36,525,000 | 486 | 1888 | -0.033093271 | PRMT6 |
| 3 | 36,450,000 | 36,600,000 | 487 | 1856 | 0.68029962 | |
| 3 | 36,525,000 | 36,675,000 | 488 | 2019 | 1.251345301 | |
| 3 | 36,600,000 | 36,750,000 | 489 | 2335 | 1.176848142 | |
| 3 | 36,675,000 | 36,825,000 | 490 | 2107 | 0.773830139 | |
| 3 | 36,750,000 | 36,900,000 | 491 | 2183 | 0.65392871 | |
| 3 | 36,825,000 | 36,975,000 | 492 | 2501 | 0.319100077 | |
| 3 | 36,900,000 | 37,050,000 | 493 | 2193 | -0.030206809 | |
| 3 | 36,975,000 | 37,125,000 | 494 | 1335 | -0.093214673 | |
| 3 | 37,050,000 | 37,200,000 | 495 | 1209 | -0.328650775 | |
| 3 | 37,125,000 | 37,275,000 | 496 | 1172 | -0.607948989 | |
| 3 | 37,200,000 | 37,350,000 | 497 | 1194 | 0.560768246 | |
| 3 | 37,275,000 | 37,425,000 | 498 | 1521 | 0.669895775 | |
| 3 | 37,350,000 | 37,500,000 | 499 | 1285 | 0.093148696 | |
| 3 | 37,425,000 | 37,575,000 | 500 | 1135 | -0.35166347 | |
| 3 | 37,500,000 | 37,650,000 | 501 | 1552 | -0.973805657 | |
| 3 | 37,575,000 | 37,725,000 | 502 | 1895 | -0.773146763 | |
| 3 | 37,650,000 | 37,800,000 | 503 | 1766 | -0.128535466 | |
| 3 | 37,725,000 | 37,875,000 | 504 | 1564 | 0.17681034 | |
| 3 | 37,800,000 | 37,950,000 | 505 | 1616 | 0.374852896 | |
| 3 | 37,875,000 | 38,025,000 | 506 | 1891 | -0.49019789 | |
| 3 | 37,950,000 | 38,100,000 | 507 | 1934 | -1.408280343 | |
| 3 | 38,025,000 | 38,175,000 | 508 | 1575 | -0.830612537 | |
| 3 | 38,100,000 | 38,250,000 | 509 | 1048 | -0.205618595 | |
| 3 | 38,175,000 | 38,325,000 | 510 | 1211 | -0.128579029 | |
| 3 | 38,250,000 | 38,400,000 | 511 | 1569 | 0.54181152 | |
| 3 | 38,325,000 | 38,475,000 | 512 | 1458 | 0.792039178 | |
| 3 | 38,400,000 | 38,550,000 | 513 | 1214 | 0.755256553 | |
| 3 | 38,475,000 | 38,625,000 | 514 | 1425 | 0.784363319 | |
| 3 | 38,550,000 | 38,700,000 | 515 | 1834 | 0.590532193 | |
| 3 | 38,625,000 | 38,775,000 | 516 | 1702 | 0.255028448 | |
| 3 | 38,700,000 | 38,850,000 | 517 | 1268 | -0.043656839 | |
| 3 | 38,775,000 | 38,925,000 | 518 | 1311 | -1.080828794 | |
| 3 | 38,850,000 | 39,000,000 | 519 | 1204 | -1.18152049 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 38,925,000 | 39,075,000 | 520 | 1098 | -0.132688179 | |
| 3 | 39,000,000 | 39,150,000 | 521 | 1278 | 0.017050546 | ENSBTAG00000015180 |
| 3 | 39,075,000 | 39,225,000 | 522 | 1097 | 0.386309549 | ENSBTAG00000015180 |
| 3 | 39,150,000 | 39,300,000 | 523 | 1220 | 0.969619921 | |
| 3 | 39,225,000 | 39,375,000 | 524 | 1369 | 0.96812746 | |
| 3 | 39,300,000 | 39,450,000 | 525 | 1346 | 0.870914974 | |
| 3 | 39,375,000 | 39,525,000 | 526 | 1195 | 0.415821637 | |
| 3 | 39,450,000 | 39,600,000 | 527 | 1450 | 0.231594108 | |
| 3 | 39,525,000 | 39,675,000 | 528 | 1441 | 0.554039123 | |
| 3 | 39,600,000 | 39,750,000 | 529 | 1323 | 0.771205699 | |
| 3 | 39,675,000 | 39,825,000 | 530 | 1114 | 0.777718553 | |
| 3 | 39,750,000 | 39,900,000 | 531 | 574 | -0.013218483 | ENSBTAG00000024288 |
| 3 | 39,825,000 | 39,975,000 | 532 | 533 | -0.446408243 | AMY2B,ENSBTAG00000024288 |
| 3 | 39,900,000 | 40,050,000 | 533 | 504 | 0.145067649 | AMY2B,RNPC3 |
| 3 | 39,975,000 | 40,125,000 | 534 | 698 | 0.815181532 | RNPC3 |
| 3 | 40,050,000 | 40,200,000 | 535 | 1115 | 0.103396975 | |
| 3 | 40,125,000 | 40,275,000 | 536 | 1147 | -0.326057488 | |
| 3 | 40,200,000 | 40,350,000 | 537 | 865 | -0.078493763 | |
| 3 | 40,275,000 | 40,425,000 | 538 | 1043 | 0.489708559 | |
| 3 | 40,350,000 | 40,500,000 | 539 | 1156 | 0.56998674 | COL11A1 |
| 3 | 40,425,000 | 40,575,000 | 540 | 905 | 0.086719437 | COL11A1 |
| 3 | 40,500,000 | 40,650,000 | 541 | 1015 | -0.484611383 | COL11A1 |
| 3 | 40,575,000 | 40,725,000 | 542 | 1204 | 0.470681143 | COL11A1 |
| 3 | 40,650,000 | 40,800,000 | 543 | 972 | 1.323891537 | COL11A1 |
| 3 | 40,725,000 | 40,875,000 | 544 | 699 | 1.194201784 | |
| 3 | 40,800,000 | 40,950,000 | 545 | 615 | -0.866728218 | |
| 3 | 40,875,000 | 41,025,000 | 546 | 950 | -0.488728767 | |
| 3 | 40,950,000 | 41,100,000 | 547 | 1283 | 0.698916679 | |
| 3 | 41,025,000 | 41,175,000 | 548 | 1281 | 0.892156429 | |
| 3 | 41,100,000 | 41,250,000 | 549 | 1743 | 0.464330663 | |
| 3 | 41,175,000 | 41,325,000 | 550 | 1760 | 0.098514246 | |
| 3 | 41,250,000 | 41,400,000 | 551 | 1043 | -0.072289874 | |
| 3 | 41,325,000 | 41,475,000 | 552 | 1101 | 0.181461905 | OLFM3 |
| 3 | 41,400,000 | 41,550,000 | 553 | 1515 | 0.321749746 | OLFM3 |
| 3 | 41,475,000 | 41,625,000 | 554 | 1517 | 0.089231055 | OLFM3 |
| 3 | 41,550,000 | 41,700,000 | 555 | 1298 | -1.111621042 | OLFM3 |
| 3 | 41,625,000 | 41,775,000 | 556 | 1075 | -0.080081644 | OLFM3 |
| 3 | 41,700,000 | 41,850,000 | 557 | 1275 | 1.276947898 | |
| 3 | 41,775,000 | 41,925,000 | 558 | 1158 | 0.963940687 | |
| 3 | 41,850,000 | 42,000,000 | 559 | 896 | 1.218953923 | |
| 3 | 41,925,000 | 42,075,000 | 560 | 1317 | 1.346618669 | |
| 3 | 42,000,000 | 42,150,000 | 561 | 1097 | 0.978437106 | |
| 3 | 42,075,000 | 42,225,000 | 562 | 472 | -0.339576777 | S1PR1 |
| 3 | 42,150,000 | 42,300,000 | 563 | 596 | 0.023838704 | S1PR1 |
| 3 | 42,225,000 | 42,375,000 | 564 | 785 | 0.183502943 | |
| 3 | 42,300,000 | 42,450,000 | 565 | 823 | 0.802682123 | DPH5 |
| 3 | 42,375,000 | 42,525,000 | 566 | 812 | 1.106289553 | DPH5,SLC30A7 |
| 3 | 42,450,000 | 42,600,000 | 567 | 852 | 1.201126887 | EXTL2,SLC30A7 |
| 3 | 42,525,000 | 42,675,000 | 568 | 1062 | 1.149488838 | EXTL2,SLC30A7 |
| 3 | 42,600,000 | 42,750,000 | 569 | 1128 | 0.875365798 | VCAM1 |
| 3 | 42,675,000 | 42,825,000 | 570 | 949 | 0.531582874 | VCAM1 |
| 3 | 42,750,000 | 42,900,000 | 571 | 732 | 0.76503547 | GPR88,VCAM1 |
| 3 | 42,825,000 | 42,975,000 | 572 | 730 | 1.236848377 | CDC14A,GPR88 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 3 | 42,900,000 | 43,050,000 | 573 | 740 | 1.303087629 | CDC14A |
| 3 | 42,975,000 | 43,125,000 | 574 | 706 | 0.98098933 | CDC14A |
| 3 | 43,050,000 | 43,200,000 | 575 | 973 | -0.401027175 | CDC14A,DBT,RTCA |
| 3 | 43,125,000 | 43,275,000 | 576 | 920 | -0.348543425 | CCDC76,DBT,LRRC39,RTCA |
| 3 | 43,200,000 | 43,350,000 | 577 | 702 | 0.778450882 | CCDC76,DBT,HIAT1,LRRC39,SASS6 |
| 3 | 43,275,000 | 43,425,000 | 578 | 841 | 0.491091645 | CCDC76,HIAT1,SASS6,SLC35A3 |
| 3 | 43,350,000 | 43,500,000 | 579 | 1009 | 0.916065794 | HIAT1,SLC35A3 |
| 3 | 43,425,000 | 43,575,000 | 580 | 1161 | 0.814856388 | AGL,SLC35A3 |
| 3 | 43,500,000 | 43,650,000 | 581 | 1039 | 0.105617255 | AGL,ENSBTAG00000048022 |
| 3 | 43,575,000 | 43,725,000 | 582 | 835 | -0.661136527 | AGL,FRRS1,PALMD,ENSBTAG00000048022 |
| 3 | 43,650,000 | 43,800,000 | 583 | 916 | -0.094964736 | FRRS1,PALMD |
| 3 | 43,725,000 | 43,875,000 | 584 | 1123 | -0.07085342 | PALMD |
| 3 | 43,800,000 | 43,950,000 | 585 | 1463 | 0.330419438 | |
| 3 | 43,875,000 | 44,025,000 | 586 | 1490 | 0.834920644 | |
| 3 | 43,950,000 | 44,100,000 | 587 | 1441 | 0.690325156 | ENSBTAG00000019031 |
| 3 | 44,025,000 | 44,175,000 | 588 | 1611 | -0.909657876 | ENSBTAG00000019031 |
| 3 | 44,100,000 | 44,250,000 | 589 | 1347 | -3.173096137 | ENSBTAG00000019031 |
| 3 | 44,175,000 | 44,325,000 | 590 | 1225 | -0.953678896 | |
| 3 | 44,250,000 | 44,400,000 | 591 | 1333 | -0.06200455 | ENSBTAG00000004591 |
| 3 | 44,325,000 | 44,475,000 | 592 | 1276 | -0.648777283 | ENSBTAG00000004591 |
| 3 | 44,400,000 | 44,550,000 | 593 | 1440 | -0.772950561 | ENSBTAG00000004591 |
| 3 | 44,475,000 | 44,625,000 | 594 | 1214 | -0.035505246 | |
| 3 | 44,550,000 | 44,700,000 | 595 | 1025 | 0.510580625 | SNX7 |
| 3 | 44,625,000 | 44,775,000 | 596 | 1150 | 0.657777076 | SNX7 |
| 3 | 44,700,000 | 44,850,000 | 597 | 1275 | 0.360674133 | SNX7 |
| 3 | 44,775,000 | 44,925,000 | 598 | 1160 | 0.246002669 | SNX7 |
| 3 | 44,850,000 | 45,000,000 | 599 | 723 | 0.701989772 | |
| 3 | 44,925,000 | 45,075,000 | 600 | 666 | 0.659880694 | |
| 3 | 45,000,000 | 45,150,000 | 601 | 635 | 0.879919448 | |
| 3 | 45,075,000 | 45,225,000 | 602 | 682 | 1.034136218 | |
| 3 | 45,150,000 | 45,300,000 | 603 | 818 | 1.131485036 | |
| 3 | 45,225,000 | 45,375,000 | 604 | 698 | 1.080076243 | |
| 3 | 45,300,000 | 45,450,000 | 605 | 546 | 0.675105252 | |
| 3 | 45,375,000 | 45,525,000 | 606 | 564 | -0.63743719 | |
| 3 | 45,450,000 | 45,600,000 | 607 | 681 | -0.464839245 | DPYD |
| 3 | 45,525,000 | 45,675,000 | 608 | 777 | -1.231913572 | DPYD |
| 3 | 45,600,000 | 45,750,000 | 609 | 966 | -0.685677943 | DPYD |
| 3 | 45,675,000 | 45,825,000 | 610 | 1323 | 0.461155333 | DPYD |
| 3 | 45,750,000 | 45,900,000 | 611 | 1399 | 0.699152275 | DPYD |
| 3 | 45,825,000 | 45,975,000 | 612 | 1112 | 1.295766497 | DPYD |
| 3 | 45,900,000 | 46,050,000 | 613 | 971 | 0.710882959 | DPYD |
| 3 | 45,975,000 | 46,125,000 | 614 | 904 | 0.46817755 | DPYD |
| 3 | 46,050,000 | 46,200,000 | 615 | 837 | 1.077452638 | DPYD |
| 3 | 46,125,000 | 46,275,000 | 616 | 803 | 1.231505111 | DPYD |
| 3 | 46,200,000 | 46,350,000 | 617 | 656 | 0.961483832 | DPYD |
| 3 | 46,275,000 | 46,425,000 | 618 | 661 | -1.99105664 | DPYD |
| 3 | 46,350,000 | 46,500,000 | 619 | 814 | -0.819082487 | DPYD |
| 3 | 46,425,000 | 46,575,000 | 620 | 1049 | 1.060574152 | DPYD |
| 3 | 46,500,000 | 46,650,000 | 621 | 859 | 0.633336535 | |
| 3 | 46,575,000 | 46,725,000 | 622 | 496 | -0.423619795 | |
| 3 | 46,650,000 | 46,800,000 | 623 | 765 | 0.55659107 | |
| 3 | 46,725,000 | 46,875,000 | 624 | 1023 | 0.494746991 | PTBP2 |
| 3 | 46,800,000 | 46,950,000 | 625 | 1048 | 0.967980675 | PTBP2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 46,875,000 | 47,025,000 | 626 | 1068 | 0.591714262 | PTBP2 |
| 3 | 46,950,000 | 47,100,000 | 627 | 943 | -0.358799029 | |
| 3 | 47,025,000 | 47,175,000 | 628 | 896 | -2.059783332 | |
| 3 | 47,100,000 | 47,250,000 | 629 | 823 | -2.351779535 | |
| 3 | 47,175,000 | 47,325,000 | 630 | 680 | -0.610512036 | |
| 3 | 47,250,000 | 47,400,000 | 631 | 1059 | 0.726283778 | |
| 3 | 47,325,000 | 47,475,000 | 632 | 1300 | 0.488478341 | |
| 3 | 47,400,000 | 47,550,000 | 633 | 1149 | 0.401196127 | |
| 3 | 47,475,000 | 47,625,000 | 634 | 872 | 0.109290841 | |
| 3 | 47,550,000 | 47,700,000 | 635 | 759 | -1.736241201 | |
| 3 | 47,625,000 | 47,775,000 | 636 | 1134 | -0.794998982 | |
| 3 | 47,700,000 | 47,850,000 | 637 | 1116 | 0.209783127 | |
| 3 | 47,775,000 | 47,925,000 | 638 | 839 | 0.719114463 | |
| 3 | 47,850,000 | 48,000,000 | 639 | 628 | 0.968019287 | |
| 3 | 47,925,000 | 48,075,000 | 640 | 606 | 0.491808961 | |
| 3 | 48,000,000 | 48,150,000 | 641 | 752 | 0.236186914 | |
| 3 | 48,075,000 | 48,225,000 | 642 | 823 | 0.752073013 | |
| 3 | 48,150,000 | 48,300,000 | 643 | 731 | -0.003680945 | |
| 3 | 48,225,000 | 48,375,000 | 644 | 463 | -1.88353242 | |
| 3 | 48,300,000 | 48,450,000 | 645 | 533 | -0.437968353 | RWDD3 |
| 3 | 48,375,000 | 48,525,000 | 646 | 692 | -0.214975947 | RWDD3,ENSBTAG00000044125 |
| 3 | 48,450,000 | 48,600,000 | 647 | 864 | -1.716406735 | ENSBTAG00000044125 |
| 3 | 48,525,000 | 48,675,000 | 648 | 848 | -3.188772937 | ALG14 |
| 3 | 48,600,000 | 48,750,000 | 649 | 545 | -5.591202306 | ALG14 |
| 3 | 48,675,000 | 48,825,000 | 650 | 307 | -6.326797185 | ALG14,CNN3,SLC44A3 |
| 3 | 48,750,000 | 48,900,000 | 651 | 267 | 0.144135748 | CNN3,SLC44A3 |
| 3 | 48,825,000 | 48,975,000 | 652 | 525 | 0.650565138 | SLC44A3 |
| 3 | 48,900,000 | 49,050,000 | 653 | 860 | -0.316835507 | |
| 3 | 48,975,000 | 49,125,000 | 654 | 1132 | -0.545071448 | F3 |
| 3 | 49,050,000 | 49,200,000 | 655 | 1206 | -0.094004575 | ABCD3,F3 |
| 3 | 49,125,000 | 49,275,000 | 656 | 912 | 0.05695217 | ABCD3 |
| 3 | 49,200,000 | 49,350,000 | 657 | 984 | 0.187311751 | ABCD3 |
| 3 | 49,275,000 | 49,425,000 | 658 | 1088 | -0.295885312 | ARHGAP29 |
| 3 | 49,350,000 | 49,500,000 | 659 | 777 | -2.318267839 | ARHGAP29 |
| 3 | 49,425,000 | 49,575,000 | 660 | 910 | -2.698438659 | ABCA4,ARHGAP29 |
| 3 | 49,500,000 | 49,650,000 | 661 | 1215 | -0.673604641 | ABCA4 |
| 3 | 49,575,000 | 49,725,000 | 662 | 1384 | 0.806232716 | ABCA4 |
| 3 | 49,650,000 | 49,800,000 | 663 | 1078 | 0.781763158 | ABCA4,DNTTIP2,GCLM |
| 3 | 49,725,000 | 49,875,000 | 664 | 828 | 0.439705233 | BCAR3,DNTTIP2,GCLM |
| 3 | 49,800,000 | 49,950,000 | 665 | 1249 | 0.671775948 | BCAR3 |
| 3 | 49,875,000 | 50,025,000 | 666 | 1465 | 0.693121309 | BCAR3 |
| 3 | 49,950,000 | 50,100,000 | 667 | 1052 | 0.709421847 | BCAR3,FNBP1L |
| 3 | 50,025,000 | 50,175,000 | 668 | 575 | 0.18626479 | BCAR3,FNBP1L |
| 3 | 50,100,000 | 50,250,000 | 669 | 461 | -0.487124172 | DR1,FNBP1L |
| 3 | 50,175,000 | 50,325,000 | 670 | 490 | -0.588410569 | DR1 |
| 3 | 50,250,000 | 50,400,000 | 671 | 446 | -0.482828655 | CCDC18,DR1 |
| 3 | 50,325,000 | 50,475,000 | 672 | 411 | 0.295673223 | CCDC18,TMED5 |
| 3 | 50,400,000 | 50,550,000 | 673 | 419 | -0.071609904 | CCDC18,MTF2,TMED5 |
| 3 | 50,475,000 | 50,625,000 | 674 | 756 | 0.835988225 | MTF2 |
| 3 | 50,550,000 | 50,700,000 | 675 | 1067 | 1.051439697 | MGC143035,MTF2 |
| 3 | 50,625,000 | 50,775,000 | 676 | 985 | 0.924771747 | MGC143035 |
| 3 | 50,700,000 | 50,850,000 | 677 | 763 | 0.77813466 | MGC143035,RPL5 |
| 3 | 50,775,000 | 50,925,000 | 678 | 659 | 1.070125624 | EVI5,MGC143035,RPL5 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 50,850,000 | 51,000,000 | 679 | 719 | 1.18088022 | EVI5 |
| 3 | 50,925,000 | 51,075,000 | 680 | 609 | 0.631782039 | EVI5 |
| 3 | 51,000,000 | 51,150,000 | 681 | 511 | 0.112818529 | EVI5,GFI1 |
| 3 | 51,075,000 | 51,225,000 | 682 | 520 | -0.620102909 | GFI1,RPAP2 |
| 3 | 51,150,000 | 51,300,000 | 683 | 590 | -1.21194767 | GLMN,RPAP2 |
| 3 | 51,225,000 | 51,375,000 | 684 | 548 | -1.403161529 | C1orf146,GLMN,RPAP2 |
| 3 | 51,300,000 | 51,450,000 | 685 | 512 | -1.021684482 | BTBD8,C1orf146,GLMN |
| 3 | 51,375,000 | 51,525,000 | 686 | 833 | -2.454569408 | ABHD7,BTBD8,ENSBTAG00000040248 |
| 3 | 51,450,000 | 51,600,000 | 687 | 914 | -5.009818778 | ABHD7,BRDT,BTBD8,ENSBTAG00000040248 |
| 3 | 51,525,000 | 51,675,000 | 688 | 798 | -6.155266808 | ABHD7,BRDT,TGFBR3 |
| 3 | 51,600,000 | 51,750,000 | 689 | 895 | -2.669159487 | TGFBR3 |
| 3 | 51,675,000 | 51,825,000 | 690 | 845 | -1.099515315 | TGFBR3 |
| 3 | 51,750,000 | 51,900,000 | 691 | 660 | -0.615908837 | TGFBR3,ENSBTAG00000048081 |
| 3 | 51,825,000 | 51,975,000 | 692 | 715 | -1.578262441 | TGFBR3,ENSBTAG00000048081 |
| 3 | 51,900,000 | 52,050,000 | 693 | 755 | -1.157037831 | CDC7L1 |
| 3 | 51,975,000 | 52,125,000 | 694 | 776 | 0.528556566 | CDC7L1 |
| 3 | 52,050,000 | 52,200,000 | 695 | 981 | 0.102859563 | HFM1 |
| 3 | 52,125,000 | 52,275,000 | 696 | 692 | -0.371918017 | HFM1,ENSBTAG00000046077 |
| 3 | 52,200,000 | 52,350,000 | 697 | 867 | 0.380732866 | HFM1,ENSBTAG00000046077 |
| 3 | 52,275,000 | 52,425,000 | 698 | 1176 | 0.664577393 | ZNF644 |
| 3 | 52,350,000 | 52,500,000 | 699 | 891 | 0.919574627 | ZNF644 |
| 3 | 52,425,000 | 52,575,000 | 700 | 888 | 0.970361443 | ZNF644 |
| 3 | 52,500,000 | 52,650,000 | 701 | 937 | 1.084508145 | ZNF644 |
| 3 | 52,575,000 | 52,725,000 | 702 | 718 | 0.89559245 | BARHL2 |
| 3 | 52,650,000 | 52,800,000 | 703 | 655 | 0.304047292 | BARHL2 |
| 3 | 52,725,000 | 52,875,000 | 704 | 1029 | -2.095635179 | |
| 3 | 52,800,000 | 52,950,000 | 705 | 1417 | -2.226897131 | |
| 3 | 52,875,000 | 53,025,000 | 706 | 1453 | 0.279243116 | |
| 3 | 52,950,000 | 53,100,000 | 707 | 1088 | 0.063679442 | |
| 3 | 53,025,000 | 53,175,000 | 708 | 843 | -0.117224108 | |
| 3 | 53,100,000 | 53,250,000 | 709 | 1021 | -0.031498126 | |
| 3 | 53,175,000 | 53,325,000 | 710 | 1095 | 0.180331448 | |
| 3 | 53,250,000 | 53,400,000 | 711 | 886 | 0.759692812 | ZNF326 |
| 3 | 53,325,000 | 53,475,000 | 712 | 778 | 1.105984405 | ZNF326 |
| 3 | 53,400,000 | 53,550,000 | 713 | 836 | 0.817308273 | LRRRC8D,ZNF326 |
| 3 | 53,475,000 | 53,625,000 | 714 | 874 | -0.55241674 | LRRRC8D |
| 3 | 53,550,000 | 53,700,000 | 715 | 783 | -0.953416812 | LRRRC8D |
| 3 | 53,625,000 | 53,775,000 | 716 | 941 | 0.28304631 | LRRRC8C |
| 3 | 53,700,000 | 53,850,000 | 717 | 935 | 0.860145112 | LRRRC8C |
| 3 | 53,775,000 | 53,925,000 | 718 | 848 | 0.954970222 | LRRRC8B,LRRRC8C |
| 3 | 53,850,000 | 54,000,000 | 719 | 1208 | 0.85259175 | LRRRC8B |
| 3 | 53,925,000 | 54,075,000 | 720 | 1205 | 0.929776318 | ENSBTAG00000014857 |
| 3 | 54,000,000 | 54,150,000 | 721 | 1089 | -1.614667856 | ENSBTAG00000014857 |
| 3 | 54,075,000 | 54,225,000 | 722 | 1128 | -5.026476616 | GBP6,ENSBTAG00000046294 |
| 3 | 54,150,000 | 54,300,000 | 723 | 1677 | -3.725827165 | GBP5,GBP6,ENSBTAG00000046294 |
| 3 | 54,225,000 | 54,375,000 | 724 | 1952 | -1.312408053 | GBP5,ENSBTAG00000017670,ENSBTAG00000038938 |
| 3 | 54,300,000 | 54,450,000 | 725 | 1106 | 0.1234108 | HNRNPA1L2,ENSBTAG00000017670,ENSBTAG00000038233,ENSBTAG00000038938 |
| 3 | 54,375,000 | 54,525,000 | 726 | 558 | -0.220484423 | HNRNPA1L2,ENSBTAG00000037490,ENSBTAG00000038233 |
| 3 | 54,450,000 | 54,600,000 | 727 | 926 | -0.309814851 | ENSBTAG00000037490,ENSBTAG00000037634 |
| 3 | 54,525,000 | 54,675,000 | 728 | 1394 | 0.004664659 | GBP4,ENSBTAG00000037490,ENSBTAG00000037634 |
| 3 | 54,600,000 | 54,750,000 | 729 | 1097 | 0.44018046 | GBP4,ENSBTAG00000037634 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 3 | 54,675,000 | 54,825,000 | 730 | 868 | 1.186368155 | GBP4,GBP6,ENSBTAG00000024272 |
| 3 | 54,750,000 | 54,900,000 | 731 | 1089 | 1.105663349 | GBP6,ENSBTAG00000024272,ENSBTAG00000038625 |
| 3 | 54,825,000 | 54,975,000 | 732 | 1068 | 1.023987089 | ENSBTAG00000002416,ENSBTAG00000038625 |
| 3 | 54,900,000 | 55,050,000 | 733 | 809 | 0.957131279 | ENSBTAG00000002416,ENSBTAG00000038500 |
| 3 | 54,975,000 | 55,125,000 | 734 | 938 | 1.096305741 | CCBL2,ENSBTAG00000001143,ENSBTAG00000038500 |
| 3 | 55,050,000 | 55,200,000 | 735 | 1276 | 0.797375836 | CCBL2,GTF2B,ENSBTAG00000001143 |
| 3 | 55,125,000 | 55,275,000 | 736 | 1085 | -0.082651221 | CCBL2,GTF2B,PKN2 |
| 3 | 55,200,000 | 55,350,000 | 737 | 1013 | -0.830040831 | GTF2B,PKN2 |
| 3 | 55,275,000 | 55,425,000 | 738 | 1263 | -0.654920215 | PKN2 |
| 3 | 55,350,000 | 55,500,000 | 739 | 1325 | 0.786883294 | PKN2 |
| 3 | 55,425,000 | 55,575,000 | 740 | 1192 | 1.278517119 | |
| 3 | 55,500,000 | 55,650,000 | 741 | 1025 | 0.860587754 | |
| 3 | 55,575,000 | 55,725,000 | 742 | 923 | 0.935599164 | |
| 3 | 55,650,000 | 55,800,000 | 743 | 746 | 0.751752385 | |
| 3 | 55,725,000 | 55,875,000 | 744 | 701 | 0.664317315 | |
| 3 | 55,800,000 | 55,950,000 | 745 | 809 | 1.18714796 | |
| 3 | 55,875,000 | 56,025,000 | 746 | 742 | 1.121476715 | |
| 3 | 55,950,000 | 56,100,000 | 747 | 695 | 1.302147769 | |
| 3 | 56,025,000 | 56,175,000 | 748 | 669 | 1.382498314 | |
| 3 | 56,100,000 | 56,250,000 | 749 | 615 | 0.613394135 | ENSBTAG00000001873 |
| 3 | 56,175,000 | 56,325,000 | 750 | 884 | 0.335914209 | ENSBTAG00000001873 |
| 3 | 56,250,000 | 56,400,000 | 751 | 1019 | 0.006300808 | |
| 3 | 56,325,000 | 56,475,000 | 752 | 1052 | 0.003574771 | |
| 3 | 56,400,000 | 56,550,000 | 753 | 1116 | 0.687782402 | |
| 3 | 56,475,000 | 56,625,000 | 754 | 750 | 0.907366698 | |
| 3 | 56,550,000 | 56,700,000 | 755 | 578 | 0.235100581 | |
| 3 | 56,625,000 | 56,775,000 | 756 | 638 | 0.249134321 | |
| 3 | 56,700,000 | 56,850,000 | 757 | 785 | 0.642619788 | LMO4 |
| 3 | 56,775,000 | 56,925,000 | 758 | 867 | 0.49648391 | LMO4 |
| 3 | 56,850,000 | 57,000,000 | 759 | 525 | 0.290387005 | |
| 3 | 56,925,000 | 57,075,000 | 760 | 638 | 0.170594689 | |
| 3 | 57,000,000 | 57,150,000 | 761 | 1109 | -0.569585181 | ENSBTAG00000017595 |
| 3 | 57,075,000 | 57,225,000 | 762 | 1348 | -1.06623674 | ENSBTAG00000017595 |
| 3 | 57,150,000 | 57,300,000 | 763 | 1366 | -0.381610592 | |
| 3 | 57,225,000 | 57,375,000 | 764 | 1350 | -0.613356544 | ENSBTAG00000012502 |
| 3 | 57,300,000 | 57,450,000 | 765 | 1226 | -1.439077369 | SH3GLB1,ENSBTAG00000012502 |
| 3 | 57,375,000 | 57,525,000 | 766 | 997 | -0.56115376 | SH3GLB1,ENSBTAG00000021501 |
| 3 | 57,450,000 | 57,600,000 | 767 | 849 | 0.494568613 | SH3GLB1,ENSBTAG00000016712,ENSBTAG00000021501 |
| 3 | 57,525,000 | 57,675,000 | 768 | 942 | -0.498930619 | CLCA4,ENSBTAG00000016712,ENSBTAG00000021501 |
| 3 | 57,600,000 | 57,750,000 | 769 | 1231 | 0.501191084 | CLCA1,CLCA4 |
| 3 | 57,675,000 | 57,825,000 | 770 | 1522 | 0.82357964 | CLCA1,CLCA2,ODF2L |
| 3 | 57,750,000 | 57,900,000 | 771 | 1501 | 0.631868947 | CLCA2,ODF2L |
| 3 | 57,825,000 | 57,975,000 | 772 | 1646 | 0.811052329 | ODF2L |
| 3 | 57,900,000 | 58,050,000 | 773 | 1501 | 0.688590285 | |
| 3 | 57,975,000 | 58,125,000 | 774 | 755 | 0.600993629 | |
| 3 | 58,050,000 | 58,200,000 | 775 | 699 | 0.112285271 | |
| 3 | 58,125,000 | 58,275,000 | 776 | 1304 | 0.225603968 | |
| 3 | 58,200,000 | 58,350,000 | 777 | 1200 | 0.428954461 | |
| 3 | 58,275,000 | 58,425,000 | 778 | 954 | 0.522543558 | |
| 3 | 58,350,000 | 58,500,000 | 779 | 1006 | 0.379278195 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 3 | 58,425,000 | 58,575,000 | 780 | 837 | 0.517338213 | ZNHIT6,ENSBTAG00000048312 |
| 3 | 58,500,000 | 58,650,000 | 781 | 816 | 0.797945853 | ZNHIT6,ENSBTAG00000048312 |
| 3 | 58,575,000 | 58,725,000 | 782 | 1011 | 1.234579145 | CYR61,ZNHIT6 |
| 3 | 58,650,000 | 58,800,000 | 783 | 1099 | 0.953483407 | CYR61 |
| 3 | 58,725,000 | 58,875,000 | 784 | 866 | -0.085296501 | DDAH1 |
| 3 | 58,800,000 | 58,950,000 | 785 | 751 | 0.052663049 | DDAH1 |
| 3 | 58,875,000 | 59,025,000 | 786 | 514 | -1.137407604 | BCL10,DDAH1 |
| 3 | 58,950,000 | 59,100,000 | 787 | 318 | -2.012152235 | BCL10,C1orf52,DDAH1,SYDE2 |
| 3 | 59,025,000 | 59,175,000 | 788 | 353 | -1.394013029 | C1orf52,SYDE2,WDR63,ENSBTAG00000047351 |
| 3 | 59,100,000 | 59,250,000 | 789 | 374 | -1.067698041 | SYDE2,WDR63,ENSBTAG00000047351 |
| 3 | 59,175,000 | 59,325,000 | 790 | 453 | -3.589686187 | MCOLN2,MCOLN3,WDR63,ENSBTAG00000047351 |
| 3 | 59,250,000 | 59,400,000 | 791 | 431 | -3.459209914 | MCOLN2,MCOLN3 |
| 3 | 59,325,000 | 59,475,000 | 792 | 483 | -0.381583016 | LPAR3,MCOLN2 |
| 3 | 59,400,000 | 59,550,000 | 793 | 525 | -0.550904098 | LPAR3 |
| 3 | 59,475,000 | 59,625,000 | 794 | 401 | -0.307498327 | SSX2IP |
| 3 | 59,550,000 | 59,700,000 | 795 | 447 | -0.079435681 | SSX2IP |
| 3 | 59,625,000 | 59,775,000 | 796 | 341 | 0.124225952 | CTB,SSX2IP,ENSBTAG00000020010 |
| 3 | 59,700,000 | 59,850,000 | 797 | 394 | -0.841525935 | BXDC5,CTB,GNG5,ENSBTAG00000020010 |
| 3 | 59,775,000 | 59,925,000 | 798 | 681 | -0.351173932 | BXDC5,DNASE2B,GNG5,UOX |
| 3 | 59,850,000 | 60,000,000 | 799 | 670 | 0.047037449 | DNASE2B,SAMD13,UOX,ENSBTAG00000007724 |
| 3 | 59,925,000 | 60,075,000 | 800 | 699 | 0.765155713 | SAMD13,UOX,ENSBTAG00000007724 |
| 3 | 60,000,000 | 60,150,000 | 801 | 656 | 0.923334826 | PRKACB,SAMD13 |
| 3 | 60,075,000 | 60,225,000 | 802 | 560 | 0.406302114 | PRKACB |
| 3 | 60,150,000 | 60,300,000 | 803 | 1028 | 0.381077715 | PRKACB |
| 3 | 60,225,000 | 60,375,000 | 804 | 1350 | -0.730002551 | EIF1,TTLL7 |
| 3 | 60,300,000 | 60,450,000 | 805 | 1350 | -0.987342973 | EIF1,TTLL7 |
| 3 | 60,375,000 | 60,525,000 | 806 | 1112 | 0.616216982 | TTLL7 |
| 3 | 60,450,000 | 60,600,000 | 807 | 854 | 1.110168248 | |
| 3 | 60,525,000 | 60,675,000 | 808 | 869 | 0.838657478 | |
| 3 | 60,600,000 | 60,750,000 | 809 | 989 | -0.37849667 | |
| 3 | 60,675,000 | 60,825,000 | 810 | 934 | -0.48738265 | |
| 3 | 60,750,000 | 60,900,000 | 811 | 1014 | -0.184241743 | |
| 3 | 60,825,000 | 60,975,000 | 812 | 1279 | 0.054497527 | |
| 3 | 60,900,000 | 61,050,000 | 813 | 1399 | -0.806582204 | |
| 3 | 60,975,000 | 61,125,000 | 814 | 1249 | -1.315642782 | |
| 3 | 61,050,000 | 61,200,000 | 815 | 1123 | -0.590081031 | |
| 3 | 61,125,000 | 61,275,000 | 816 | 1124 | -0.81398898 | ENSBTAG00000031088 |
| 3 | 61,200,000 | 61,350,000 | 817 | 984 | -0.307952078 | ENSBTAG00000031088 |
| 3 | 61,275,000 | 61,425,000 | 818 | 1139 | 0.723606484 | |
| 3 | 61,350,000 | 61,500,000 | 819 | 1275 | 0.892355022 | |
| 3 | 61,425,000 | 61,575,000 | 820 | 1288 | 0.801538199 | |
| 3 | 61,500,000 | 61,650,000 | 821 | 1251 | 0.940132145 | |
| 3 | 61,575,000 | 61,725,000 | 822 | 1122 | 0.823020284 | |
| 3 | 61,650,000 | 61,800,000 | 823 | 1158 | 0.764473956 | |
| 3 | 61,725,000 | 61,875,000 | 824 | 1169 | 0.750488768 | |
| 3 | 61,800,000 | 61,950,000 | 825 | 1174 | 0.84684575 | |
| 3 | 61,875,000 | 62,025,000 | 826 | 1135 | 0.562374445 | |
| 3 | 61,950,000 | 62,100,000 | 827 | 979 | 0.098907728 | |
| 3 | 62,025,000 | 62,175,000 | 828 | 912 | -0.236544254 | |
| 3 | 62,100,000 | 62,250,000 | 829 | 931 | -0.120646825 | |
| 3 | 62,175,000 | 62,325,000 | 830 | 1080 | -0.181054435 | |
| 3 | 62,250,000 | 62,400,000 | 831 | 1223 | -0.511277634 | |
| 3 | 62,325,000 | 62,475,000 | 832 | 1455 | -1.618352217 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 3 | 62,400,000 | 62,550,000 | 833 | 1357 | -3.504434292 | |
| 3 | 62,475,000 | 62,625,000 | 834 | 1139 | -2.628134924 | |
| 3 | 62,550,000 | 62,700,000 | 835 | 1063 | -1.005644495 | LPHN2 |
| 3 | 62,625,000 | 62,775,000 | 836 | 950 | -1.152313853 | LPHN2 |
| 3 | 62,700,000 | 62,850,000 | 837 | 942 | 0.013202276 | LPHN2 |
| 3 | 62,775,000 | 62,925,000 | 838 | 1101 | 0.328766782 | LPHN2 |
| 3 | 62,850,000 | 63,000,000 | 839 | 1175 | 0.305605419 | |
| 3 | 62,925,000 | 63,075,000 | 840 | 1068 | 0.318553303 | ENSBTAG00000047248 |
| 3 | 63,000,000 | 63,150,000 | 841 | 1157 | 0.998607754 | ENSBTAG00000047248 |
| 3 | 63,075,000 | 63,225,000 | 842 | 1096 | 1.082962238 | |
| 3 | 63,150,000 | 63,300,000 | 843 | 905 | -1.362691647 | |
| 3 | 63,225,000 | 63,375,000 | 844 | 810 | -1.288110015 | |
| 3 | 63,300,000 | 63,450,000 | 845 | 893 | 0.456728585 | |
| 3 | 63,375,000 | 63,525,000 | 846 | 1038 | 0.906970686 | |
| 3 | 63,450,000 | 63,600,000 | 847 | 938 | 1.136923124 | |
| 3 | 63,525,000 | 63,675,000 | 848 | 1010 | 0.932156976 | |
| 3 | 63,600,000 | 63,750,000 | 849 | 1225 | -0.08320211 | |
| 3 | 63,675,000 | 63,825,000 | 850 | 1075 | -1.16781886 | |
| 3 | 63,750,000 | 63,900,000 | 851 | 1131 | 0.147803833 | |
| 3 | 63,825,000 | 63,975,000 | 852 | 1484 | 0.637648499 | |
| 3 | 63,900,000 | 64,050,000 | 853 | 1539 | 0.256915092 | |
| 3 | 63,975,000 | 64,125,000 | 854 | 1650 | 0.010424748 | |
| 3 | 64,050,000 | 64,200,000 | 855 | 1837 | 0.355343922 | |
| 3 | 64,125,000 | 64,275,000 | 856 | 1914 | 0.36169243 | |
| 3 | 64,200,000 | 64,350,000 | 857 | 1685 | 0.087737649 | |
| 3 | 64,275,000 | 64,425,000 | 858 | 1129 | 0.644351768 | |
| 3 | 64,350,000 | 64,500,000 | 859 | 1401 | 0.701652163 | |
| 3 | 64,425,000 | 64,575,000 | 860 | 1758 | 0.515910936 | |
| 3 | 64,500,000 | 64,650,000 | 861 | 1562 | 0.54249443 | |
| 3 | 64,575,000 | 64,725,000 | 862 | 1510 | 0.642736957 | |
| 3 | 64,650,000 | 64,800,000 | 863 | 1731 | -0.021224222 | |
| 3 | 64,725,000 | 64,875,000 | 864 | 1663 | 0.015556024 | |
| 3 | 64,800,000 | 64,950,000 | 865 | 1434 | 1.123389123 | |
| 3 | 64,875,000 | 65,025,000 | 866 | 1582 | 1.300989967 | |
| 3 | 64,950,000 | 65,100,000 | 867 | 1580 | 1.211836267 | |
| 3 | 65,025,000 | 65,175,000 | 868 | 1387 | 1.198137143 | |
| 3 | 65,100,000 | 65,250,000 | 869 | 1146 | 1.093285906 | |
| 3 | 65,175,000 | 65,325,000 | 870 | 805 | 0.816573707 | |
| 3 | 65,250,000 | 65,400,000 | 871 | 632 | -0.536732251 | |
| 3 | 65,325,000 | 65,475,000 | 872 | 1101 | -1.266168459 | |
| 3 | 65,400,000 | 65,550,000 | 873 | 1394 | -0.421885822 | |
| 3 | 65,475,000 | 65,625,000 | 874 | 1119 | 0.928252172 | |
| 3 | 65,550,000 | 65,700,000 | 875 | 829 | 1.093704878 | |
| 3 | 65,625,000 | 65,775,000 | 876 | 868 | 0.789849651 | |
| 3 | 65,700,000 | 65,850,000 | 877 | 1067 | 0.164097185 | |
| 3 | 65,775,000 | 65,925,000 | 878 | 915 | 0.202339038 | ELTD1 |
| 3 | 65,850,000 | 66,000,000 | 879 | 577 | 0.764495683 | ELTD1 |
| 3 | 65,925,000 | 66,075,000 | 880 | 811 | 0.112873638 | ELTD1 |
| 3 | 66,000,000 | 66,150,000 | 881 | 1166 | -1.016910613 | ELTD1 |
| 3 | 66,075,000 | 66,225,000 | 882 | 1280 | -1.204645003 | |
| 3 | 66,150,000 | 66,300,000 | 883 | 1227 | -0.382203012 | IFI44 |
| 3 | 66,225,000 | 66,375,000 | 884 | 1042 | 0.04305028 | IFI44,IFI44L |
| 3 | 66,300,000 | 66,450,000 | 885 | 833 | 0.115645943 | FP,IFI44L |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 3 | 66,375,000 | 66,525,000 | 886 | 819 | 0.153360736 | FP |
| 3 | 66,450,000 | 66,600,000 | 887 | 1064 | 0.449504646 | |
| 3 | 66,525,000 | 66,675,000 | 888 | 914 | 0.396926248 | |
| 3 | 66,600,000 | 66,750,000 | 889 | 1170 | 0.853828489 | |
| 3 | 66,675,000 | 66,825,000 | 890 | 1489 | 0.705149749 | GIPC2,ENSBTAG00000031082 |
| 3 | 66,750,000 | 66,900,000 | 891 | 1145 | -0.117117697 | GIPC2,ENSBTAG00000031082 |
| 3 | 66,825,000 | 66,975,000 | 892 | 741 | -0.295337602 | DNAJB4,FUBP1,GIPC2 |
| 3 | 66,900,000 | 67,050,000 | 893 | 572 | 0.208421103 | DNAJB4,FUBP1,NEXN |
| 3 | 66,975,000 | 67,125,000 | 894 | 923 | 0.871202427 | FAM73A,FUBP1,NEXN |
| 3 | 67,050,000 | 67,200,000 | 895 | 1139 | 1.080892136 | FAM73A,NEXN,USP33 |
| 3 | 67,125,000 | 67,275,000 | 896 | 884 | 0.865081886 | FAM73A,USP33,ZZZ3 |
| 3 | 67,200,000 | 67,350,000 | 897 | 640 | 0.216029107 | USP33,ZZZ3 |
| 3 | 67,275,000 | 67,425,000 | 898 | 999 | -0.140717407 | AK5,ZZZ3 |
| 3 | 67,350,000 | 67,500,000 | 899 | 1772 | 0.222955389 | AK5 |
| 3 | 67,425,000 | 67,575,000 | 900 | 1742 | 0.918157538 | AK5 |
| 3 | 67,500,000 | 67,650,000 | 901 | 1403 | 0.981980831 | AK5 |
| 3 | 67,575,000 | 67,725,000 | 902 | 1616 | 0.517573217 | AK5,PIGK |
| 3 | 67,650,000 | 67,800,000 | 903 | 1744 | 0.785244435 | PIGK |
| 3 | 67,725,000 | 67,875,000 | 904 | 1610 | 1.019265266 | PIGK,ST6GALNAC5 |
| 3 | 67,800,000 | 67,950,000 | 905 | 1667 | 1.29525217 | PIGK,ST6GALNAC5 |
| 3 | 67,875,000 | 68,025,000 | 906 | 1782 | 1.310551329 | ST6GALNAC5 |
| 3 | 67,950,000 | 68,100,000 | 907 | 1815 | 0.930066178 | ST6GALNAC5 |
| 3 | 68,025,000 | 68,175,000 | 908 | 2134 | 0.892653059 | ST6GALNAC5 |
| 3 | 68,100,000 | 68,250,000 | 909 | 2087 | 0.951264411 | |
| 3 | 68,175,000 | 68,325,000 | 910 | 1569 | 0.923301139 | |
| 3 | 68,250,000 | 68,400,000 | 911 | 1242 | 0.476886223 | |
| 3 | 68,325,000 | 68,475,000 | 912 | 1044 | 0.096471716 | |
| 3 | 68,400,000 | 68,550,000 | 913 | 1201 | 0.293186761 | |
| 3 | 68,475,000 | 68,625,000 | 914 | 1222 | 0.27273163 | |
| 3 | 68,550,000 | 68,700,000 | 915 | 1212 | 0.351586856 | |
| 3 | 68,625,000 | 68,775,000 | 916 | 1521 | 0.016619286 | |
| 3 | 68,700,000 | 68,850,000 | 917 | 1858 | 0.272068405 | |
| 3 | 68,775,000 | 68,925,000 | 918 | 1815 | 1.043381962 | |
| 3 | 68,850,000 | 69,000,000 | 919 | 1415 | 0.983121052 | |
| 3 | 68,925,000 | 69,075,000 | 920 | 1013 | 0.700838475 | |
| 3 | 69,000,000 | 69,150,000 | 921 | 921 | 0.173095552 | |
| 3 | 69,075,000 | 69,225,000 | 922 | 659 | 0.140102272 | ASB17,MSH4 |
| 3 | 69,150,000 | 69,300,000 | 923 | 311 | -0.227165019 | ASB17,MSH4 |
| 3 | 69,225,000 | 69,375,000 | 924 | 369 | -0.504108965 | ACADM,MSH4,RABGGTB |
| 3 | 69,300,000 | 69,450,000 | 925 | 438 | -0.42028504 | ACADM,MSH4,RABGGTB |
| 3 | 69,375,000 | 69,525,000 | 926 | 751 | 0.667243726 | ACADM |
| 3 | 69,450,000 | 69,600,000 | 927 | 996 | 0.579698289 | |
| 3 | 69,525,000 | 69,675,000 | 928 | 1122 | -0.342028822 | |
| 3 | 69,600,000 | 69,750,000 | 929 | 1339 | -0.336511878 | |
| 3 | 69,675,000 | 69,825,000 | 930 | 1441 | 0.264358326 | SLC44A5 |
| 3 | 69,750,000 | 69,900,000 | 931 | 1289 | 0.39093852 | LHX8,SLC44A5 |
| 3 | 69,825,000 | 69,975,000 | 932 | 1037 | 0.214077932 | LHX8,SLC44A5 |
| 3 | 69,900,000 | 70,050,000 | 933 | 971 | 1.255869413 | LHX8 |
| 3 | 69,975,000 | 70,125,000 | 934 | 1125 | 1.363462684 | |
| 3 | 70,050,000 | 70,200,000 | 935 | 1056 | 1.253294205 | |
| 3 | 70,125,000 | 70,275,000 | 936 | 1114 | 0.98235271 | CRYZ,TYW3 |
| 3 | 70,200,000 | 70,350,000 | 937 | 1112 | 0.807295474 | CRYZ,ERICH3,TYW3 |
| 3 | 70,275,000 | 70,425,000 | 938 | 796 | 0.67064247 | CRYZ,ERICH3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 3 | 70,350,000 | 70,500,000 | 939 | 619 | 0.518322124 | ERICH3,TNNI3K |
| 3 | 70,425,000 | 70,575,000 | 940 | 673 | 0.332229364 | TNNI3K |
| 3 | 70,500,000 | 70,650,000 | 941 | 973 | 0.306959893 | TNNI3K |
| 3 | 70,575,000 | 70,725,000 | 942 | 1054 | -0.117843707 | TNNI3K |
| 3 | 70,650,000 | 70,800,000 | 943 | 1123 | -0.872231638 | TNNI3K |
| 3 | 70,725,000 | 70,875,000 | 944 | 958 | -0.481912074 | TNNI3K |
| 3 | 70,800,000 | 70,950,000 | 945 | 480 | 0.511689665 | FPGT,LRRIQ3,TNNI3K |
| 3 | 70,875,000 | 71,025,000 | 946 | 289 | 0.545291576 | FPGT,LRRIQ3 |
| 3 | 70,950,000 | 71,100,000 | 947 | 562 | 1.073810199 | LRRIQ3 |
| 3 | 71,025,000 | 71,175,000 | 948 | 832 | 0.201741351 | |
| 3 | 71,100,000 | 71,250,000 | 949 | 759 | -0.880771956 | |
| 3 | 71,175,000 | 71,325,000 | 950 | 723 | -0.295309612 | |
| 3 | 71,250,000 | 71,400,000 | 951 | 874 | -0.44225706 | |
| 3 | 71,325,000 | 71,475,000 | 952 | 1043 | 0.019593057 | |
| 3 | 71,400,000 | 71,550,000 | 953 | 1090 | 0.760128746 | |
| 3 | 71,475,000 | 71,625,000 | 954 | 871 | 0.629010253 | |
| 3 | 71,550,000 | 71,700,000 | 955 | 725 | 0.718156164 | |
| 3 | 71,625,000 | 71,775,000 | 956 | 1061 | 0.861635526 | |
| 3 | 71,700,000 | 71,850,000 | 957 | 1376 | 0.043918276 | |
| 3 | 71,775,000 | 71,925,000 | 958 | 1276 | -0.455171378 | |
| 3 | 71,850,000 | 72,000,000 | 959 | 1392 | 0.295894763 | |
| 3 | 71,925,000 | 72,075,000 | 960 | 1436 | 0.749631869 | |
| 3 | 72,000,000 | 72,150,000 | 961 | 1260 | 0.063095582 | |
| 3 | 72,075,000 | 72,225,000 | 962 | 1261 | -1.476159307 | |
| 3 | 72,150,000 | 72,300,000 | 963 | 1098 | -0.864237962 | |
| 3 | 72,225,000 | 72,375,000 | 964 | 940 | 0.652819294 | |
| 3 | 72,300,000 | 72,450,000 | 965 | 911 | 0.711488501 | |
| 3 | 72,375,000 | 72,525,000 | 966 | 836 | 0.788131349 | ENSBTAG00000006600 |
| 3 | 72,450,000 | 72,600,000 | 967 | 1014 | 0.310956016 | ENSBTAG00000006600 |
| 3 | 72,525,000 | 72,675,000 | 968 | 1236 | 0.501471733 | |
| 3 | 72,600,000 | 72,750,000 | 969 | 1169 | 0.979757053 | |
| 3 | 72,675,000 | 72,825,000 | 970 | 1386 | 1.093258831 | |
| 3 | 72,750,000 | 72,900,000 | 971 | 1226 | 1.017573724 | |
| 3 | 72,825,000 | 72,975,000 | 972 | 506 | 1.194219091 | |
| 3 | 72,900,000 | 73,050,000 | 973 | 183 | 0.77758428 | |
| 3 | 72,975,000 | 73,125,000 | 974 | 528 | 0.180094301 | |
| 3 | 73,050,000 | 73,200,000 | 975 | 723 | 0.039022306 | |
| 3 | 73,125,000 | 73,275,000 | 976 | 668 | -0.250806603 | |
| 3 | 73,200,000 | 73,350,000 | 977 | 743 | -0.142218256 | |
| 3 | 73,275,000 | 73,425,000 | 978 | 547 | -0.474603535 | |
| 3 | 73,350,000 | 73,500,000 | 979 | 754 | -0.222817844 | |
| 3 | 73,425,000 | 73,575,000 | 980 | 953 | 0.597297287 | |
| 3 | 73,500,000 | 73,650,000 | 981 | 696 | 0.745779884 | |
| 3 | 73,575,000 | 73,725,000 | 982 | 799 | 1.089878069 | |
| 3 | 73,650,000 | 73,800,000 | 983 | 913 | 1.34349909 | |
| 3 | 73,725,000 | 73,875,000 | 984 | 880 | 1.04034676 | |
| 3 | 73,800,000 | 73,950,000 | 985 | 811 | 0.953558015 | |
| 3 | 73,875,000 | 74,025,000 | 986 | 766 | 1.243194638 | |
| 3 | 73,950,000 | 74,100,000 | 987 | 926 | 0.950242322 | |
| 3 | 74,025,000 | 74,175,000 | 988 | 782 | 0.79080896 | |
| 3 | 74,100,000 | 74,250,000 | 989 | 620 | 0.946318208 | |
| 3 | 74,175,000 | 74,325,000 | 990 | 880 | 1.211138622 | |
| 3 | 74,250,000 | 74,400,000 | 991 | 646 | 1.170452056 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 3 | 74,325,000 | 74,475,000 | 992 | 261 | 0.240628816 | ZRANB2 |
| 3 | 74,400,000 | 74,550,000 | 993 | 499 | -0.229713788 | PTGER3,ZRANB2 |
| 3 | 74,475,000 | 74,625,000 | 994 | 1008 | -1.115174153 | PTGER3 |
| 3 | 74,550,000 | 74,700,000 | 995 | 1324 | -0.730698738 | |
| 3 | 74,625,000 | 74,775,000 | 996 | 1563 | 0.822817455 | |
| 3 | 74,700,000 | 74,850,000 | 997 | 1927 | 1.142374771 | |
| 3 | 74,775,000 | 74,925,000 | 998 | 1718 | 1.248326814 | |
| 3 | 74,850,000 | 75,000,000 | 999 | 885 | 0.754187946 | |
| 3 | 74,925,000 | 75,075,000 | 1000 | 422 | 0.455733124 | |
| 3 | 75,000,000 | 75,150,000 | 1001 | 541 | 0.528662341 | ANKRD13C,CTH |
| 3 | 75,075,000 | 75,225,000 | 1002 | 559 | -0.112414007 | ANKRD13C,CTH |
| 3 | 75,150,000 | 75,300,000 | 1003 | 432 | -0.132380154 | ANKRD13C,LRRC40,SFRS11 |
| 3 | 75,225,000 | 75,375,000 | 1004 | 457 | 0.667565132 | ANKRD13C,LRRC40,LRRC7,SFRS11 |
| 3 | 75,300,000 | 75,450,000 | 1005 | 774 | 0.183664345 | LRRC40,LRRC7 |
| 3 | 75,375,000 | 75,525,000 | 1006 | 930 | 0.010603231 | LRRC7 |
| 3 | 75,450,000 | 75,600,000 | 1007 | 884 | 0.417681261 | LRRC7 |
| 3 | 75,525,000 | 75,675,000 | 1008 | 830 | 0.585012159 | LRRC7 |
| 3 | 75,600,000 | 75,750,000 | 1009 | 1003 | 0.526823737 | LRRC7 |
| 3 | 75,675,000 | 75,825,000 | 1010 | 1070 | -0.027891085 | LRRC7 |
| 3 | 75,750,000 | 75,900,000 | 1011 | 860 | -0.820187896 | |
| 3 | 75,825,000 | 75,975,000 | 1012 | 791 | -0.114832728 | |
| 3 | 75,900,000 | 76,050,000 | 1013 | 1054 | 0.990011578 | |
| 3 | 75,975,000 | 76,125,000 | 1014 | 1026 | 1.048691354 | |
| 3 | 76,050,000 | 76,200,000 | 1015 | 821 | 0.533192791 | |
| 3 | 76,125,000 | 76,275,000 | 1016 | 728 | 0.613783881 | |
| 3 | 76,200,000 | 76,350,000 | 1017 | 487 | -0.260490417 | |
| 3 | 76,275,000 | 76,425,000 | 1018 | 514 | -0.473132017 | |
| 3 | 76,350,000 | 76,500,000 | 1019 | 656 | 0.379066235 | |
| 3 | 76,425,000 | 76,575,000 | 1020 | 1068 | -0.050771429 | |
| 3 | 76,500,000 | 76,650,000 | 1021 | 1053 | -0.212978138 | |
| 3 | 76,575,000 | 76,725,000 | 1022 | 958 | -0.019413145 | |
| 3 | 76,650,000 | 76,800,000 | 1023 | 862 | -0.130856452 | |
| 3 | 76,725,000 | 76,875,000 | 1024 | 626 | -0.91467428 | |
| 3 | 76,800,000 | 76,950,000 | 1025 | 726 | -0.607918969 | |
| 3 | 76,875,000 | 77,025,000 | 1026 | 632 | 0.225948768 | |
| 3 | 76,950,000 | 77,100,000 | 1027 | 675 | 0.781406983 | DEPDC1 |
| 3 | 77,025,000 | 77,175,000 | 1028 | 563 | 0.807710695 | DEPDC1,RPE65,ENSBTAG00000030890 |
| 3 | 77,100,000 | 77,250,000 | 1029 | 323 | 0.013357476 | DEPDC1,RPE65,ENSBTAG00000030890 |
| 3 | 77,175,000 | 77,325,000 | 1030 | 335 | -0.2126143 | RPE65 |
| 3 | 77,250,000 | 77,400,000 | 1031 | 338 | 0.161131686 | WLS |
| 3 | 77,325,000 | 77,475,000 | 1032 | 392 | 0.058123795 | WLS |
| 3 | 77,400,000 | 77,550,000 | 1033 | 444 | 0.323261054 | WLS |
| 3 | 77,475,000 | 77,625,000 | 1034 | 452 | 0.84953215 | DIRAS3,WLS |
| 3 | 77,550,000 | 77,700,000 | 1035 | 382 | 0.721316245 | DIRAS3 |
| 3 | 77,625,000 | 77,775,000 | 1036 | 474 | 0.705027279 | |
| 3 | 77,700,000 | 77,850,000 | 1037 | 550 | 0.991693232 | |
| 3 | 77,775,000 | 77,925,000 | 1038 | 395 | 0.775489691 | GNG12 |
| 3 | 77,850,000 | 78,000,000 | 1039 | 320 | 0.026406594 | GADD45A,GNG12 |
| 3 | 77,925,000 | 78,075,000 | 1040 | 328 | -0.434550278 | GADD45A,GNG12 |
| 3 | 78,000,000 | 78,150,000 | 1041 | 489 | 0.058080739 | |
| 3 | 78,075,000 | 78,225,000 | 1042 | 694 | 1.011038479 | |
| 3 | 78,150,000 | 78,300,000 | 1043 | 492 | 1.019125224 | IL12RB2,SERBP1 |
| 3 | 78,225,000 | 78,375,000 | 1044 | 417 | 0.9033476 | IL12RB2,SERBP1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------|
| 3 | 78,300,000 | 78,450,000 | 1045 | 600 | 0.554937524 | IL12RB2,IL23R |
| 3 | 78,375,000 | 78,525,000 | 1046 | 1044 | 0.098496691 | C1orf141,IL23R |
| 3 | 78,450,000 | 78,600,000 | 1047 | 1571 | 0.033763307 | C1orf141,IL23R |
| 3 | 78,525,000 | 78,675,000 | 1048 | 1387 | -0.155218407 | C1orf141,MIER1,SLC35D2 |
| 3 | 78,600,000 | 78,750,000 | 1049 | 859 | 0.3106499 | MIER1,SLC35D2,WDR78 |
| 3 | 78,675,000 | 78,825,000 | 1050 | 900 | -1.766346787 | MIER1,WDR78 |
| 3 | 78,750,000 | 78,900,000 | 1051 | 1163 | -3.023798513 | INSL5,TCTEX1D1,WDR78 |
| 3 | 78,825,000 | 78,975,000 | 1052 | 1106 | -1.887277098 | INSL5,SGIP1,TCTEX1D1,WDR78 |
| 3 | 78,900,000 | 79,050,000 | 1053 | 930 | 0.374874845 | SGIP1,TCTEX1D1 |
| 3 | 78,975,000 | 79,125,000 | 1054 | 683 | 0.770519902 | SGIP1 |
| 3 | 79,050,000 | 79,200,000 | 1055 | 773 | 0.668034931 | SGIP1 |
| 3 | 79,125,000 | 79,275,000 | 1056 | 1012 | 0.888015725 | SGIP1 |
| 3 | 79,200,000 | 79,350,000 | 1057 | 899 | 1.017552414 | PDE4B |
| 3 | 79,275,000 | 79,425,000 | 1058 | 821 | 0.961497294 | PDE4B |
| 3 | 79,350,000 | 79,500,000 | 1059 | 924 | 0.496767995 | PDE4B |
| 3 | 79,425,000 | 79,575,000 | 1060 | 1076 | 0.240820543 | PDE4B |
| 3 | 79,500,000 | 79,650,000 | 1061 | 809 | 0.484544816 | MGC137454,PDE4B |
| 3 | 79,575,000 | 79,725,000 | 1062 | 503 | 0.467802763 | MGC137454,PDE4B |
| 3 | 79,650,000 | 79,800,000 | 1063 | 985 | 0.539955139 | MGC137454,PDE4B |
| 3 | 79,725,000 | 79,875,000 | 1064 | 1116 | 0.686107619 | MGC137454,PDE4B |
| 3 | 79,800,000 | 79,950,000 | 1065 | 797 | 0.534679394 | MGC137454 |
| 3 | 79,875,000 | 80,025,000 | 1066 | 908 | 0.515114484 | |
| 3 | 79,950,000 | 80,100,000 | 1067 | 958 | 0.640226095 | OB-R |
| 3 | 80,025,000 | 80,175,000 | 1068 | 760 | 0.300793963 | OB-R |
| 3 | 80,100,000 | 80,250,000 | 1069 | 566 | -0.353825412 | LEPROT,OB-R |
| 3 | 80,175,000 | 80,325,000 | 1070 | 484 | -1.396098658 | DNAJC6,LEPROT |
| 3 | 80,250,000 | 80,400,000 | 1071 | 685 | -1.101041111 | DNAJC6,LEPROT |
| 3 | 80,325,000 | 80,475,000 | 1072 | 822 | 0.415455918 | DNAJC6 |
| 3 | 80,400,000 | 80,550,000 | 1073 | 665 | 1.073024616 | AK4 |
| 3 | 80,475,000 | 80,625,000 | 1074 | 577 | 0.890722758 | AK4 |
| 3 | 80,550,000 | 80,700,000 | 1075 | 745 | 0.860644949 | AK4 |
| 3 | 80,625,000 | 80,775,000 | 1076 | 849 | 0.926834809 | |
| 3 | 80,700,000 | 80,850,000 | 1077 | 734 | 0.768837265 | |
| 3 | 80,775,000 | 80,925,000 | 1078 | 807 | 0.439034124 | JAK1 |
| 3 | 80,850,000 | 81,000,000 | 1079 | 1345 | -0.101915843 | JAK1,RAVER2 |
| 3 | 80,925,000 | 81,075,000 | 1080 | 1590 | 0.069913095 | RAVER2 |
| 3 | 81,000,000 | 81,150,000 | 1081 | 1187 | 0.908151373 | CACHD1,RAVER2 |
| 3 | 81,075,000 | 81,225,000 | 1082 | 977 | 1.072108393 | CACHD1 |
| 3 | 81,150,000 | 81,300,000 | 1083 | 1063 | 0.938435009 | CACHD1 |
| 3 | 81,225,000 | 81,375,000 | 1084 | 946 | 0.822623903 | |
| 3 | 81,300,000 | 81,450,000 | 1085 | 1167 | 0.412367438 | |
| 3 | 81,375,000 | 81,525,000 | 1086 | 1374 | 0.086823373 | |
| 3 | 81,450,000 | 81,600,000 | 1087 | 1391 | -1.177173415 | UBE2U |
| 3 | 81,525,000 | 81,675,000 | 1088 | 1303 | -2.188152146 | ROR1,UBE2U |
| 3 | 81,600,000 | 81,750,000 | 1089 | 839 | -2.333359493 | ROR1,UBE2U |
| 3 | 81,675,000 | 81,825,000 | 1090 | 741 | -0.907372257 | ROR1 |
| 3 | 81,750,000 | 81,900,000 | 1091 | 785 | -0.327929955 | |
| 3 | 81,825,000 | 81,975,000 | 1092 | 532 | -0.656615753 | |
| 3 | 81,900,000 | 82,050,000 | 1093 | 373 | -0.915274357 | |
| 3 | 81,975,000 | 82,125,000 | 1094 | 467 | -0.847679707 | |
| 3 | 82,050,000 | 82,200,000 | 1095 | 513 | -0.849770876 | |
| 3 | 82,125,000 | 82,275,000 | 1096 | 436 | 0.216436734 | PGM1 |
| 3 | 82,200,000 | 82,350,000 | 1097 | 543 | 0.644975561 | EFCAB7,PGM1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 82,275,000 | 82,425,000 | 1098 | 535 | 0.315934669 | EFCAB7,ITGB3BP,PGM1 |
| 3 | 82,350,000 | 82,500,000 | 1099 | 356 | -0.191954385 | ALG6,EFCAB7,ITGB3BP |
| 3 | 82,425,000 | 82,575,000 | 1100 | 436 | 0.258645319 | ALG6,ITGB3BP |
| 3 | 82,500,000 | 82,650,000 | 1101 | 502 | 0.783888295 | ALG6,FOXD3 |
| 3 | 82,575,000 | 82,725,000 | 1102 | 479 | 0.667249151 | FOXD3 |
| 3 | 82,650,000 | 82,800,000 | 1103 | 229 | 0.264882412 | |
| 3 | 82,725,000 | 82,875,000 | 1104 | 1 | -1.092374377 | |
| 3 | 82,800,000 | 82,950,000 | 1105 | 79 | -0.606961145 | |
| 3 | 82,875,000 | 83,025,000 | 1106 | 278 | -1.073788502 | |
| 3 | 82,950,000 | 83,100,000 | 1107 | 499 | -1.304334665 | |
| 3 | 83,025,000 | 83,175,000 | 1108 | 886 | -0.17417729 | |
| 3 | 83,100,000 | 83,250,000 | 1109 | 828 | 0.117441202 | |
| 3 | 83,175,000 | 83,325,000 | 1110 | 624 | -1.737750324 | ATG4C |
| 3 | 83,250,000 | 83,400,000 | 1111 | 518 | -2.038314439 | ATG4C |
| 3 | 83,325,000 | 83,475,000 | 1112 | 376 | 0.1203149 | ATG4C,ENSBTAG00000048179 |
| 3 | 83,400,000 | 83,550,000 | 1113 | 559 | 0.778490086 | ANGPTL3,DOCK7,ENSBTAG00000048179 |
| 3 | 83,475,000 | 83,625,000 | 1114 | 640 | 0.147435649 | ANGPTL3,DOCK7 |
| 3 | 83,550,000 | 83,700,000 | 1115 | 540 | -0.127646105 | DOCK7,USP1 |
| 3 | 83,625,000 | 83,775,000 | 1116 | 903 | 0.153853718 | DOCK7,USP1 |
| 3 | 83,700,000 | 83,850,000 | 1117 | 972 | 0.314407907 | KANK4 |
| 3 | 83,775,000 | 83,925,000 | 1118 | 660 | -1.80229617 | KANK4 |
| 3 | 83,850,000 | 84,000,000 | 1119 | 1012 | -3.062094929 | KANK4,ENSBTAG00000045912 |
| 3 | 83,925,000 | 84,075,000 | 1120 | 1098 | -0.899654255 | ENSBTAG00000045912,ENSBTAG00000047830 |
| 3 | 84,000,000 | 84,150,000 | 1121 | 1033 | 1.478049099 | INADL,ENSBTAG00000046720,ENSBTAG00000047830 |
| 3 | 84,075,000 | 84,225,000 | 1122 | 1061 | 1.286187282 | INADL,ENSBTAG00000046720 |
| 3 | 84,150,000 | 84,300,000 | 1123 | 792 | 0.510008435 | INADL |
| 3 | 84,225,000 | 84,375,000 | 1124 | 862 | -0.371161802 | INADL |
| 3 | 84,300,000 | 84,450,000 | 1125 | 829 | -0.417466288 | INADL |
| 3 | 84,375,000 | 84,525,000 | 1126 | 475 | -0.336971371 | INADL,TM2D1 |
| 3 | 84,450,000 | 84,600,000 | 1127 | 430 | -0.252948323 | INADL,TM2D1 |
| 3 | 84,525,000 | 84,675,000 | 1128 | 519 | 0.274359562 | TM2D1 |
| 3 | 84,600,000 | 84,750,000 | 1129 | 668 | -0.005573317 | NFIA |
| 3 | 84,675,000 | 84,825,000 | 1130 | 538 | -0.198522821 | NFIA |
| 3 | 84,750,000 | 84,900,000 | 1131 | 367 | 0.208857048 | NFIA |
| 3 | 84,825,000 | 84,975,000 | 1132 | 377 | 0.302068699 | NFIA |
| 3 | 84,900,000 | 85,050,000 | 1133 | 387 | 0.489122607 | NFIA |
| 3 | 84,975,000 | 85,125,000 | 1134 | 423 | 0.118987228 | NFIA |
| 3 | 85,050,000 | 85,200,000 | 1135 | 462 | -0.866699977 | NFIA |
| 3 | 85,125,000 | 85,275,000 | 1136 | 724 | -0.144017223 | NFIA |
| 3 | 85,200,000 | 85,350,000 | 1137 | 701 | 0.618291097 | |
| 3 | 85,275,000 | 85,425,000 | 1138 | 397 | 0.221143692 | |
| 3 | 85,350,000 | 85,500,000 | 1139 | 483 | 0.7720879 | |
| 3 | 85,425,000 | 85,575,000 | 1140 | 621 | 0.658652354 | |
| 3 | 85,500,000 | 85,650,000 | 1141 | 762 | 0.36391183 | |
| 3 | 85,575,000 | 85,725,000 | 1142 | 758 | 0.786371875 | |
| 3 | 85,650,000 | 85,800,000 | 1143 | 822 | 0.937022576 | |
| 3 | 85,725,000 | 85,875,000 | 1144 | 780 | 0.773621761 | |
| 3 | 85,800,000 | 85,950,000 | 1145 | 506 | 0.113080353 | |
| 3 | 85,875,000 | 86,025,000 | 1146 | 784 | 0.617971934 | |
| 3 | 85,950,000 | 86,100,000 | 1147 | 793 | 0.696342866 | |
| 3 | 86,025,000 | 86,175,000 | 1148 | 803 | 0.413199468 | |
| 3 | 86,100,000 | 86,250,000 | 1149 | 1131 | 0.558150673 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 86,175,000 | 86,325,000 | 1150 | 994 | -1.33074073 | C1orf87 |
| 3 | 86,250,000 | 86,400,000 | 1151 | 881 | -1.087681766 | C1orf87,ENSBTAG00000038085 |
| 3 | 86,325,000 | 86,475,000 | 1152 | 1097 | 0.641429672 | C1orf87,ENSBTAG00000038085 |
| 3 | 86,400,000 | 86,550,000 | 1153 | 1159 | -0.302466442 | ENSBTAG0000000258,ENSBTAG00000013693,ENSBTAG00000038085 |
| 3 | 86,475,000 | 86,625,000 | 1154 | 834 | -1.968584203 | ENSBTAG0000000258,ENSBTAG00000010033,ENSBTAG00000013693 |
| 3 | 86,550,000 | 86,700,000 | 1155 | 573 | -2.077113439 | HOOK1,ENSBTAG00000010033 |
| 3 | 86,625,000 | 86,775,000 | 1156 | 576 | -1.418125604 | HOOK1,ENSBTAG00000010033 |
| 3 | 86,700,000 | 86,850,000 | 1157 | 661 | -1.162512933 | FGGY,HOOK1 |
| 3 | 86,775,000 | 86,925,000 | 1158 | 590 | -1.411362759 | FGGY |
| 3 | 86,850,000 | 87,000,000 | 1159 | 563 | -1.162851801 | FGGY |
| 3 | 86,925,000 | 87,075,000 | 1160 | 751 | -0.726779924 | FGGY |
| 3 | 87,000,000 | 87,150,000 | 1161 | 814 | -1.417116251 | FGGY |
| 3 | 87,075,000 | 87,225,000 | 1162 | 626 | -1.349793339 | FGGY |
| 3 | 87,150,000 | 87,300,000 | 1163 | 580 | -0.556698826 | FGGY |
| 3 | 87,225,000 | 87,375,000 | 1164 | 522 | -0.974432277 | FGGY |
| 3 | 87,300,000 | 87,450,000 | 1165 | 574 | -2.508976432 | |
| 3 | 87,375,000 | 87,525,000 | 1166 | 620 | -2.406243478 | |
| 3 | 87,450,000 | 87,600,000 | 1167 | 444 | 0.635569276 | |
| 3 | 87,525,000 | 87,675,000 | 1168 | 663 | 0.257026507 | |
| 3 | 87,600,000 | 87,750,000 | 1169 | 734 | 0.232332965 | |
| 3 | 87,675,000 | 87,825,000 | 1170 | 461 | 0.208587834 | |
| 3 | 87,750,000 | 87,900,000 | 1171 | 577 | 0.291955178 | JUN |
| 3 | 87,825,000 | 87,975,000 | 1172 | 547 | 0.337941408 | JUN,MYSM1 |
| 3 | 87,900,000 | 88,050,000 | 1173 | 611 | -0.680675642 | MYSM1,TACSTD2 |
| 3 | 87,975,000 | 88,125,000 | 1174 | 681 | -0.5000227 | OMA1,TACSTD2 |
| 3 | 88,050,000 | 88,200,000 | 1175 | 579 | 0.845118654 | OMA1 |
| 3 | 88,125,000 | 88,275,000 | 1176 | 594 | 0.622083255 | |
| 3 | 88,200,000 | 88,350,000 | 1177 | 938 | 0.263585316 | |
| 3 | 88,275,000 | 88,425,000 | 1178 | 953 | 0.392651305 | |
| 3 | 88,350,000 | 88,500,000 | 1179 | 595 | 0.626361245 | |
| 3 | 88,425,000 | 88,575,000 | 1180 | 526 | 0.597122441 | |
| 3 | 88,500,000 | 88,650,000 | 1181 | 619 | -2.097423982 | |
| 3 | 88,575,000 | 88,725,000 | 1182 | 1011 | -0.285031544 | |
| 3 | 88,650,000 | 88,800,000 | 1183 | 883 | 0.373756291 | |
| 3 | 88,725,000 | 88,875,000 | 1184 | 605 | -0.248575977 | |
| 3 | 88,800,000 | 88,950,000 | 1185 | 551 | 0.56655072 | |
| 3 | 88,875,000 | 89,025,000 | 1186 | 783 | 0.878555368 | |
| 3 | 88,950,000 | 89,100,000 | 1187 | 1197 | 0.309686521 | |
| 3 | 89,025,000 | 89,175,000 | 1188 | 1231 | 0.091239586 | |
| 3 | 89,100,000 | 89,250,000 | 1189 | 1062 | -0.050829924 | |
| 3 | 89,175,000 | 89,325,000 | 1190 | 1255 | 0.444089029 | ENSBTAG00000024201 |
| 3 | 89,250,000 | 89,400,000 | 1191 | 1242 | 0.183513259 | ENSBTAG00000024201 |
| 3 | 89,325,000 | 89,475,000 | 1192 | 769 | -0.785225453 | |
| 3 | 89,400,000 | 89,550,000 | 1193 | 898 | 0.460584744 | |
| 3 | 89,475,000 | 89,625,000 | 1194 | 926 | -0.064671511 | |
| 3 | 89,550,000 | 89,700,000 | 1195 | 622 | -2.198347226 | DAB1 |
| 3 | 89,625,000 | 89,775,000 | 1196 | 623 | -1.3847223 | C8B,DAB1 |
| 3 | 89,700,000 | 89,850,000 | 1197 | 731 | -1.27683179 | C8A,C8B |
| 3 | 89,775,000 | 89,925,000 | 1198 | 919 | -0.641589857 | C8A,C8B |
| 3 | 89,850,000 | 90,000,000 | 1199 | 936 | 0.244427209 | C1orf168,C8A |
| 3 | 89,925,000 | 90,075,000 | 1200 | 1017 | 0.206258279 | C1orf168,PRKAA2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 90,000,000 | 90,150,000 | 1201 | 763 | 0.246300041 | C1orf168,PRKAA2 |
| 3 | 90,075,000 | 90,225,000 | 1202 | 460 | 0.742774026 | PPAP2B,PRKAA2 |
| 3 | 90,150,000 | 90,300,000 | 1203 | 494 | 0.617704073 | PPAP2B |
| 3 | 90,225,000 | 90,375,000 | 1204 | 581 | 0.140497296 | PPAP2B |
| 3 | 90,300,000 | 90,450,000 | 1205 | 864 | 0.603132879 | |
| 3 | 90,375,000 | 90,525,000 | 1206 | 889 | 0.954651527 | |
| 3 | 90,450,000 | 90,600,000 | 1207 | 856 | 1.344012794 | |
| 3 | 90,525,000 | 90,675,000 | 1208 | 1057 | 1.030196391 | |
| 3 | 90,600,000 | 90,750,000 | 1209 | 1188 | 0.461301638 | |
| 3 | 90,675,000 | 90,825,000 | 1210 | 866 | -0.082862236 | |
| 3 | 90,750,000 | 90,900,000 | 1211 | 756 | 0.087351744 | |
| 3 | 90,825,000 | 90,975,000 | 1212 | 898 | 0.580187679 | |
| 3 | 90,900,000 | 91,050,000 | 1213 | 1091 | 0.844399285 | |
| 3 | 90,975,000 | 91,125,000 | 1214 | 1293 | 0.727825177 | |
| 3 | 91,050,000 | 91,200,000 | 1215 | 846 | 0.41374661 | |
| 3 | 91,125,000 | 91,275,000 | 1216 | 704 | 0.770435475 | |
| 3 | 91,200,000 | 91,350,000 | 1217 | 969 | 0.447596393 | |
| 3 | 91,275,000 | 91,425,000 | 1218 | 830 | 0.556080148 | |
| 3 | 91,350,000 | 91,500,000 | 1219 | 687 | 0.107871971 | |
| 3 | 91,425,000 | 91,575,000 | 1220 | 769 | -0.450010065 | ENSBTAG00000046915 |
| 3 | 91,500,000 | 91,650,000 | 1221 | 1115 | 0.040524997 | ENSBTAG00000046915 |
| 3 | 91,575,000 | 91,725,000 | 1222 | 1043 | 0.490939878 | USP24 |
| 3 | 91,650,000 | 91,800,000 | 1223 | 511 | 0.925561934 | USP24 |
| 3 | 91,725,000 | 91,875,000 | 1224 | 498 | 0.557989696 | USP24 |
| 3 | 91,800,000 | 91,950,000 | 1225 | 990 | 1.079309113 | BSND,TMEM61,USP24 |
| 3 | 91,875,000 | 92,025,000 | 1226 | 944 | 1.202807213 | BSND,C1orf177,DHCR24,TMEM61 |
| 3 | 91,950,000 | 92,100,000 | 1227 | 731 | 0.503069183 | C1orf177,DHCR24,PARS2,TTC22 |
| 3 | 92,025,000 | 92,175,000 | 1228 | 820 | 0.257541524 | C1orf177,HEATR8,PARS2,TTC22,TTC4,ENSBTAG00000030623 |
| 3 | 92,100,000 | 92,250,000 | 1229 | 801 | 0.901213302 | FAM151A,HEATR8,PARS2,TTC4,ENSBTAG00000030623 |
| 3 | 92,175,000 | 92,325,000 | 1230 | 790 | 1.289417913 | ACOT11,FAM151A,ENSBTAG00000030623 |
| 3 | 92,250,000 | 92,400,000 | 1231 | 664 | 1.322050879 | ACOT11,FAM151A |
| 3 | 92,325,000 | 92,475,000 | 1232 | 472 | 1.230188799 | SSBP3 |
| 3 | 92,400,000 | 92,550,000 | 1233 | 358 | 0.324176929 | SSBP3 |
| 3 | 92,475,000 | 92,625,000 | 1234 | 747 | 0.670337911 | CYB5RL,MRPL37,SSBP3 |
| 3 | 92,550,000 | 92,700,000 | 1235 | 822 | 0.810213482 | CDCP2,CYB5RL,MRPL37,SSBP3 |
| 3 | 92,625,000 | 92,775,000 | 1236 | 650 | 0.232680541 | CDCP2,TCEANC2,TMEM59 |
| 3 | 92,700,000 | 92,850,000 | 1237 | 611 | 0.195164674 | C3H1ORF41,LDLRAD1,LRRC42,TCEANC2,TMEM59 |
| 3 | 92,775,000 | 92,925,000 | 1238 | 485 | -0.205892881 | C3H1ORF41,DIO1,LDLRAD1,LRRC42 |
| 3 | 92,850,000 | 93,000,000 | 1239 | 389 | -0.929446177 | C3H1ORF41,DIO1,NDC1 |
| 3 | 92,925,000 | 93,075,000 | 1240 | 466 | 0.434742717 | NDC1 |
| 3 | 93,000,000 | 93,150,000 | 1241 | 594 | 0.412776822 | NDC1 |
| 3 | 93,075,000 | 93,225,000 | 1242 | 639 | 0.654773858 | GLIS1 |
| 3 | 93,150,000 | 93,300,000 | 1243 | 657 | 0.691370347 | GLIS1 |
| 3 | 93,225,000 | 93,375,000 | 1244 | 509 | 0.098290085 | DMRTB1,GLIS1,ENSBTAG00000039540 |
| 3 | 93,300,000 | 93,450,000 | 1245 | 706 | -0.233016321 | DMRTB1,GLIS1,ENSBTAG00000039540 |
| 3 | 93,375,000 | 93,525,000 | 1246 | 824 | -0.298562159 | LRP8,ENSBTAG00000039540 |
| 3 | 93,450,000 | 93,600,000 | 1247 | 624 | -1.031917331 | C3H1orf123,LRP8,MAGOH |
| 3 | 93,525,000 | 93,675,000 | 1248 | 751 | -0.584795536 | C3H1orf123,CPT2,LRP8,MAGOH,SLC1A7 |
| 3 | 93,600,000 | 93,750,000 | 1249 | 718 | 0.106301123 | CPT2,PODN,SLC1A7 |
| 3 | 93,675,000 | 93,825,000 | 1250 | 554 | 0.188473579 | PODN,SLC1A7 |
| 3 | 93,750,000 | 93,900,000 | 1251 | 574 | 0.926850939 | PODN,SCP2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 3 | 93,825,000 | 93,975,000 | 1252 | 486 | 1.338949621 | SCP2 |
| 3 | 93,900,000 | 94,050,000 | 1253 | 599 | 0.778997922 | ECHDC2,SCP2,ZYG11A,ENSBTAG00000047375 |
| 3 | 93,975,000 | 94,125,000 | 1254 | 845 | -0.296011538 | ECHDC2,ZYG11A,ZYG11B,ENSBTAG00000047375 |
| 3 | 94,050,000 | 94,200,000 | 1255 | 844 | -0.389008341 | ZYG11A,ZYG11B |
| 3 | 94,125,000 | 94,275,000 | 1256 | 708 | -0.112009227 | COA7,ZYG11B |
| 3 | 94,200,000 | 94,350,000 | 1257 | 605 | -0.356627986 | COA7,FAM159A,GPX7 |
| 3 | 94,275,000 | 94,425,000 | 1258 | 621 | 0.791445055 | FAM159A,GPX7,ZCCHC11 |
| 3 | 94,350,000 | 94,500,000 | 1259 | 614 | 1.040641213 | ZCCHC11 |
| 3 | 94,425,000 | 94,575,000 | 1260 | 498 | 1.121430423 | ORC1,PRPF38A,ZCCHC11 |
| 3 | 94,500,000 | 94,650,000 | 1261 | 551 | 0.598156215 | CC2D1B,ORC1,PRPF38A,ZCCHC11,ZFYVE9 |
| 3 | 94,575,000 | 94,725,000 | 1262 | 488 | 0.232325124 | CC2D1B,ORC1,ZFYVE9 |
| 3 | 94,650,000 | 94,800,000 | 1263 | 346 | 0.403920786 | ZFYVE9 |
| 3 | 94,725,000 | 94,875,000 | 1264 | 388 | -0.139985802 | BTF3L4,TXNDC12 |
| 3 | 94,800,000 | 94,950,000 | 1265 | 392 | 0.066988407 | BTF3L4,RAB3B,TXNDC12 |
| 3 | 94,875,000 | 95,025,000 | 1266 | 328 | 0.265046831 | RAB3B,TXNDC12 |
| 3 | 94,950,000 | 95,100,000 | 1267 | 253 | 0.347058897 | NRD1,RAB3B |
| 3 | 95,025,000 | 95,175,000 | 1268 | 238 | 1.053196623 | NRD1,OSBPL9 |
| 3 | 95,100,000 | 95,250,000 | 1269 | 223 | 0.711654756 | NRD1,OSBPL9 |
| 3 | 95,175,000 | 95,325,000 | 1270 | 385 | 0.059024989 | OSBPL9 |
| 3 | 95,250,000 | 95,400,000 | 1271 | 425 | -0.52743948 | EPS15,OSBPL9,ENSBTAG00000024153 |
| 3 | 95,325,000 | 95,475,000 | 1272 | 272 | -0.959803606 | EPS15,ENSBTAG00000024153 |
| 3 | 95,400,000 | 95,550,000 | 1273 | 312 | -0.64249188 | EPS15 |
| 3 | 95,475,000 | 95,625,000 | 1274 | 345 | -0.277113935 | EPS15,RNF11,TTC39A |
| 3 | 95,550,000 | 95,700,000 | 1275 | 309 | -0.107823897 | RNF11,TTC39A |
| 3 | 95,625,000 | 95,775,000 | 1276 | 445 | 0.283209218 | C3H1orf185 |
| 3 | 95,700,000 | 95,850,000 | 1277 | 736 | 0.939892053 | C3H1orf185 |
| 3 | 95,775,000 | 95,925,000 | 1278 | 631 | 0.994220268 | CDKN2C |
| 3 | 95,850,000 | 96,000,000 | 1279 | 353 | 0.20823866 | CDKN2C,FAF1 |
| 3 | 95,925,000 | 96,075,000 | 1280 | 280 | -1.156056528 | CDKN2C,FAF1 |
| 3 | 96,000,000 | 96,150,000 | 1281 | 326 | -1.779029915 | FAF1 |
| 3 | 96,075,000 | 96,225,000 | 1282 | 435 | -1.450582394 | FAF1 |
| 3 | 96,150,000 | 96,300,000 | 1283 | 458 | -0.426125095 | FAF1 |
| 3 | 96,225,000 | 96,375,000 | 1284 | 676 | 0.561927159 | FAF1 |
| 3 | 96,300,000 | 96,450,000 | 1285 | 891 | 0.874863623 | FAF1 |
| 3 | 96,375,000 | 96,525,000 | 1286 | 778 | 0.305096496 | DMRTA2,FAF1 |
| 3 | 96,450,000 | 96,600,000 | 1287 | 923 | 0.206937557 | DMRTA2 |
| 3 | 96,525,000 | 96,675,000 | 1288 | 1056 | 0.353310083 | ELAVL4 |
| 3 | 96,600,000 | 96,750,000 | 1289 | 821 | -0.187047967 | ELAVL4 |
| 3 | 96,675,000 | 96,825,000 | 1290 | 567 | 0.126779323 | ELAVL4 |
| 3 | 96,750,000 | 96,900,000 | 1291 | 445 | 1.047548865 | |
| 3 | 96,825,000 | 96,975,000 | 1292 | 365 | 0.961843068 | |
| 3 | 96,900,000 | 97,050,000 | 1293 | 452 | 0.678219463 | |
| 3 | 96,975,000 | 97,125,000 | 1294 | 695 | 0.598715554 | |
| 3 | 97,050,000 | 97,200,000 | 1295 | 721 | 0.46025422 | |
| 3 | 97,125,000 | 97,275,000 | 1296 | 924 | 0.822093321 | |
| 3 | 97,200,000 | 97,350,000 | 1297 | 744 | 0.889639697 | |
| 3 | 97,275,000 | 97,425,000 | 1298 | 411 | -0.132981591 | |
| 3 | 97,350,000 | 97,500,000 | 1299 | 772 | -0.002984008 | |
| 3 | 97,425,000 | 97,575,000 | 1300 | 1260 | 0.262694294 | |
| 3 | 97,500,000 | 97,650,000 | 1301 | 1148 | -0.582633213 | |
| 3 | 97,575,000 | 97,725,000 | 1302 | 694 | -2.737489201 | |
| 3 | 97,650,000 | 97,800,000 | 1303 | 517 | -1.744543773 | |
| 3 | 97,725,000 | 97,875,000 | 1304 | 535 | -0.27187144 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 97,800,000 | 97,950,000 | 1305 | 491 | -0.617604163 | |
| 3 | 97,875,000 | 98,025,000 | 1306 | 521 | -1.375269222 | |
| 3 | 97,950,000 | 98,100,000 | 1307 | 695 | -1.555874736 | BEND5 |
| 3 | 98,025,000 | 98,175,000 | 1308 | 897 | -0.627855685 | BEND5 |
| 3 | 98,100,000 | 98,250,000 | 1309 | 1008 | -0.017408967 | BEND5 |
| 3 | 98,175,000 | 98,325,000 | 1310 | 957 | 0.150487435 | AGBL4 |
| 3 | 98,250,000 | 98,400,000 | 1311 | 1025 | 0.202181139 | AGBL4,SPATA6 |
| 3 | 98,325,000 | 98,475,000 | 1312 | 1427 | 0.008486125 | SPATA6 |
| 3 | 98,400,000 | 98,550,000 | 1313 | 1428 | 0.372249225 | SPATA6 |
| 3 | 98,475,000 | 98,625,000 | 1314 | 844 | 0.90311582 | SLC5A9,SPATA6 |
| 3 | 98,550,000 | 98,700,000 | 1315 | 553 | 0.304163847 | SKINT1,SLC5A9 |
| 3 | 98,625,000 | 98,775,000 | 1316 | 603 | 0.538938557 | SKINT1,ENSBTAG00000030553 |
| 3 | 98,700,000 | 98,850,000 | 1317 | 746 | 0.037252798 | ENSBTAG00000030553 |
| 3 | 98,775,000 | 98,925,000 | 1318 | 748 | -1.753289553 | |
| 3 | 98,850,000 | 99,000,000 | 1319 | 683 | -1.238781212 | |
| 3 | 98,925,000 | 99,075,000 | 1320 | 567 | 0.21323168 | |
| 3 | 99,000,000 | 99,150,000 | 1321 | 781 | 0.653532908 | |
| 3 | 99,075,000 | 99,225,000 | 1322 | 1074 | 0.891440665 | |
| 3 | 99,150,000 | 99,300,000 | 1323 | 860 | 0.802356483 | |
| 3 | 99,225,000 | 99,375,000 | 1324 | 536 | -1.112881298 | |
| 3 | 99,300,000 | 99,450,000 | 1325 | 473 | -2.728126021 | FOXD2 |
| 3 | 99,375,000 | 99,525,000 | 1326 | 656 | 0.138841788 | CMPK1,FOXD2 |
| 3 | 99,450,000 | 99,600,000 | 1327 | 911 | 0.932464599 | CMPK1,STIL |
| 3 | 99,525,000 | 99,675,000 | 1328 | 920 | -0.459697214 | CYP4X1,PDZK1IP1,STIL,TAL1 |
| 3 | 99,600,000 | 99,750,000 | 1329 | 657 | -1.020630178 | CYP4X1,PDZK1IP1,TAL1 |
| 3 | 99,675,000 | 99,825,000 | 1330 | 491 | 0.803052366 | CYP4X1,ENSBTAG00000037890 |
| 3 | 99,750,000 | 99,900,000 | 1331 | 416 | 1.345249651 | ENSBTAG00000000229,ENSBTAG00000037890 |
| 3 | 99,825,000 | 99,975,000 | 1332 | 508 | 1.28026223 | CYP4A22,CYP4B1,ENSBTAG00000000229 |
| 3 | 99,900,000 | 100,050,000 | 1333 | 763 | 1.387838291 | CYP4A22,CYP4B1,EFCAB14 |
| 3 | 99,975,000 | 100,125,000 | 1334 | 978 | 1.463174866 | ATPAF1,EFCAB14,MOB3C,TEX38 |
| 3 | 100,050,000 | 100,200,000 | 1335 | 992 | 1.457757293 | ATPAF1,EFCAB14,KNCN,MKNK1,MOB3C,TEX38 |
| 3 | 100,125,000 | 100,275,000 | 1336 | 809 | 1.468643135 | DMBX1,KNCN,MKNK1 |
| 3 | 100,200,000 | 100,350,000 | 1337 | 531 | 1.442895972 | DMBX1,FAAH,ENSBTAG00000037858 |
| 3 | 100,275,000 | 100,425,000 | 1338 | 515 | 1.135619691 | FAAH,LRR41,NSUN4,RAD54L,UQCRH,ENSBTAG0000019904,ENSBTAG00000037858 |
| 3 | 100,350,000 | 100,500,000 | 1339 | 879 | 0.750958242 | LRR41,LURAP1,NSUN4,POMGNT1,RAD54L,TSPAN1,UQCRH,ENSBTAG00000019904 |
| 3 | 100,425,000 | 100,575,000 | 1340 | 1077 | 0.747925658 | LURAP1,PIK3R3,POMGNT1,RAD54L,TSPAN1 |
| 3 | 100,500,000 | 100,650,000 | 1341 | 1106 | 0.318261465 | PIK3R3,TSPAN1 |
| 3 | 100,575,000 | 100,725,000 | 1342 | 984 | 0.044877558 | MAST2,PIK3R3 |
| 3 | 100,650,000 | 100,800,000 | 1343 | 917 | 0.290496427 | MAST2,PIK3R3 |
| 3 | 100,725,000 | 100,875,000 | 1344 | 805 | 0.191746763 | MAST2 |
| 3 | 100,800,000 | 100,950,000 | 1345 | 697 | 0.053858041 | IPP |
| 3 | 100,875,000 | 101,025,000 | 1346 | 901 | -0.05804833 | IPP,ENSBTAG00000008810 |
| 3 | 100,950,000 | 101,100,000 | 1347 | 795 | -0.172197599 | CCDC17,IPP,NASP,ENSBTAG00000008810 |
| 3 | 101,025,000 | 101,175,000 | 1348 | 778 | 0.040944998 | AKR1A1,CCDC17,MMACHC,NASP,PRDX1,ENSBTAG0000008810,ENSBTAG00000017029 |
| 3 | 101,100,000 | 101,250,000 | 1349 | 1109 | 0.591710459 | AKR1A1,MMACHC,PRDX1,TESK2,ENSBTAG00000017029 |
| 3 | 101,175,000 | 101,325,000 | 1350 | 1009 | 0.453741892 | MUTYH,TESK2,TOE1,ENSBTAG00000017029 |
| 3 | 101,250,000 | 101,400,000 | 1351 | 832 | 0.938508049 | HPDL,MUTYH,RPS27L,TESK2,TOE1 |
| 3 | 101,325,000 | 101,475,000 | 1352 | 854 | 1.206116032 | HPDL,MUTYH,RPS27L |
| 3 | 101,400,000 | 101,550,000 | 1353 | 719 | 0.979542433 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 101,475,000 | 101,625,000 | 1354 | 590 | 0.489351256 | HECTD3,UROD,ZSWIM5 |
| 3 | 101,550,000 | 101,700,000 | 1355 | 534 | 0.581658952 | EIF2B3,HECTD3,UROD,ZSWIM5 |
| 3 | 101,625,000 | 101,775,000 | 1356 | 577 | 0.002543387 | EIF2B3,HECTD3,PTCH2 |
| 3 | 101,700,000 | 101,850,000 | 1357 | 548 | 0.007183964 | BEST4,BTBD19,EIF2B3,KIF2C,PLK3,PTCH2,RPS8,TCTEX1D4 |
| 3 | 101,775,000 | 101,925,000 | 1358 | 570 | 0.17096797 | BEST4,BTBD19,C1orf228,KIF2C,PLK3,PTCH2,RPS8,TCTEX1D4 |
| 3 | 101,850,000 | 102,000,000 | 1359 | 625 | 0.106365733 | C1orf228,KIF2C,RNF220,TMEM53 |
| 3 | 101,925,000 | 102,075,000 | 1360 | 556 | 0.689957206 | C1orf228,RNF220,TMEM53 |
| 3 | 102,000,000 | 102,150,000 | 1361 | 809 | 0.065481412 | RNF220 |
| 3 | 102,075,000 | 102,225,000 | 1362 | 977 | -0.028650479 | RNF220 |
| 3 | 102,150,000 | 102,300,000 | 1363 | 760 | 0.444857482 | ERI3,RNF220 |
| 3 | 102,225,000 | 102,375,000 | 1364 | 558 | 0.64508997 | ERI3,RNF220 |
| 3 | 102,300,000 | 102,450,000 | 1365 | 359 | 0.331964462 | DMAP1,ERI3 |
| 3 | 102,375,000 | 102,525,000 | 1366 | 587 | -2.762513173 | DMAP1,ERI3 |
| 3 | 102,450,000 | 102,600,000 | 1367 | 868 | -3.231477878 | ENSBTAG00000005143,ENSBTAG000000047871 |
| 3 | 102,525,000 | 102,675,000 | 1368 | 684 | -2.130846802 | ATP6V0B,B4GALT2,CCDC24,ENSBTAG00000005143,ENSBTAG00000008690,ENSBTAG000000047871 |
| 3 | 102,600,000 | 102,750,000 | 1369 | 726 | -0.660445084 | ARTN,ATP6V0B,B4GALT2,CCDC24,DPH2,IPO13,SIAT6,ENSBTAG00000008690 |
| 3 | 102,675,000 | 102,825,000 | 1370 | 1043 | 0.042220689 | ARTN,DPH2,IPO13,SIAT6 |
| 3 | 102,750,000 | 102,900,000 | 1371 | 1011 | 0.810229814 | |
| 3 | 102,825,000 | 102,975,000 | 1372 | 584 | 1.144543185 | KDM4A |
| 3 | 102,900,000 | 103,050,000 | 1373 | 242 | 0.91713339 | KDM4A,PTPRF |
| 3 | 102,975,000 | 103,125,000 | 1374 | 413 | -0.601388642 | PTPRF |
| 3 | 103,050,000 | 103,200,000 | 1375 | 685 | 0.051742683 | HYI,PTPRF,SZT2 |
| 3 | 103,125,000 | 103,275,000 | 1376 | 615 | 1.143868179 | CDC20,ELOVL1,HYI,MED8,MPL,SZT2 |
| 3 | 103,200,000 | 103,350,000 | 1377 | 683 | 0.956245933 | C3H1ORF210,CDC20,ELOVL1,HPRT1,MED8,MPL,SZT2,TIE1,TMEM125 |
| 3 | 103,275,000 | 103,425,000 | 1378 | 874 | 0.074873691 | C3H1ORF210,CFAP57,EBNA1BP2,HPRT1,TIE1,TMEM125 |
| 3 | 103,350,000 | 103,500,000 | 1379 | 1007 | -0.069049754 | CFAP57,EBNA1BP2,FAM183A,ENSBTAG000000030386,ENSBTAG000000037432 |
| 3 | 103,425,000 | 103,575,000 | 1380 | 1252 | 0.312610141 | EBNA1BP2,FAM183A,ENSBTAG00000001397,ENSBTAG000000030385,ENSBTAG000000030386,ENSBTAG000000037432 |
| 3 | 103,500,000 | 103,650,000 | 1381 | 1442 | 0.944753277 | ENSBTAG00000001397,ENSBTAG000000023748,ENSBTAG000000030385,ENSBTAG000000030386,ENSBTAG000000037770,ENSBTAG000000037810 |
| 3 | 103,575,000 | 103,725,000 | 1382 | 1139 | 1.268857057 | ENSBTAG00000007627,ENSBTAG00000012414,ENSBTAG000000023748,ENSBTAG00000037770,ENSBTAG000000037810 |
| 3 | 103,650,000 | 103,800,000 | 1383 | 788 | 1.442006647 | ENSBTAG00000007627,ENSBTAG00000012414 |
| 3 | 103,725,000 | 103,875,000 | 1384 | 765 | 1.406876542 | |
| 3 | 103,800,000 | 103,950,000 | 1385 | 760 | 0.785458886 | SLC2A1,ENSBTAG000000023986 |
| 3 | 103,875,000 | 104,025,000 | 1386 | 713 | 0.939298141 | SLC2A1,ZNF691,ENSBTAG000000023986 |
| 3 | 103,950,000 | 104,100,000 | 1387 | 817 | 1.082949548 | C3H1ORF50,CCDC23,CLDN19,LEPRE1,ZNF691,ENSBTAG00000017387 |
| 3 | 104,025,000 | 104,175,000 | 1388 | 776 | 0.874268805 | C3H1ORF50,CCDC23,CCDC30,CLDN19,LEPRE1,PPIH,YBX1,ENSBTAG00000017387 |
| 3 | 104,100,000 | 104,250,000 | 1389 | 592 | 0.566922047 | CCDC30,PPIH,YBX1 |
| 3 | 104,175,000 | 104,325,000 | 1390 | 754 | 0.926730541 | CCDC30,PPCS,ZMYND12 |
| 3 | 104,250,000 | 104,400,000 | 1391 | 879 | 1.006054797 | CCDC30,PPCS,RIMKLA,ZMYND12 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 104,325,000 | 104,475,000 | 1392 | 909 | 0.4746125 | RIMKLA,ZMYND12 |
| 3 | 104,400,000 | 104,550,000 | 1393 | 690 | 0.164289598 | FOXJ3,RIMKLA |
| 3 | 104,475,000 | 104,625,000 | 1394 | 786 | 0.939807403 | FOXJ3,GUCA2A,GUCA2B |
| 3 | 104,550,000 | 104,700,000 | 1395 | 1378 | 1.148311472 | FOXJ3,GUCA2A,GUCA2B |
| 3 | 104,625,000 | 104,775,000 | 1396 | 1233 | 0.780015136 | |
| 3 | 104,700,000 | 104,850,000 | 1397 | 910 | -0.271614474 | |
| 3 | 104,775,000 | 104,925,000 | 1398 | 970 | -0.028987341 | |
| 3 | 104,850,000 | 105,000,000 | 1399 | 948 | -0.43599226 | |
| 3 | 104,925,000 | 105,075,000 | 1400 | 1117 | -0.144934509 | |
| 3 | 105,000,000 | 105,150,000 | 1401 | 1153 | 0.699717124 | |
| 3 | 105,075,000 | 105,225,000 | 1402 | 958 | 0.502522294 | HIVEP3 |
| 3 | 105,150,000 | 105,300,000 | 1403 | 980 | 0.600902571 | EDN2,HIVEP3 |
| 3 | 105,225,000 | 105,375,000 | 1404 | 1056 | 0.856359374 | EDN2,HIVEP3 |
| 3 | 105,300,000 | 105,450,000 | 1405 | 1063 | 0.550521489 | EDN2,FOXO6 |
| 3 | 105,375,000 | 105,525,000 | 1406 | 1163 | -0.455688779 | FOXO6 |
| 3 | 105,450,000 | 105,600,000 | 1407 | 1335 | -1.014350786 | |
| 3 | 105,525,000 | 105,675,000 | 1408 | 1257 | -1.985254927 | SCMH1 |
| 3 | 105,600,000 | 105,750,000 | 1409 | 1112 | -1.465481426 | SCMH1 |
| 3 | 105,675,000 | 105,825,000 | 1410 | 1183 | 0.020289139 | CTPS,SCMH1,SLFNL1 |
| 3 | 105,750,000 | 105,900,000 | 1411 | 1328 | 0.216590108 | CTPS,SCMH1,SLFNL1 |
| 3 | 105,825,000 | 105,975,000 | 1412 | 1241 | 0.600166719 | CITED4,CTPS |
| 3 | 105,900,000 | 106,050,000 | 1413 | 926 | 0.851773813 | CITED4,KCNQ4,NFYC |
| 3 | 105,975,000 | 106,125,000 | 1414 | 785 | 0.921784614 | KCNQ4,NFYC |
| 3 | 106,050,000 | 106,200,000 | 1415 | 1169 | -0.344033656 | NFYC,RIMS3,ENSBTAG00000034332 |
| 3 | 106,125,000 | 106,275,000 | 1416 | 1562 | -0.203945093 | EXO5,RIMS3,ZFP69,ZNF684,ENSBTAG00000034332 |
| 3 | 106,200,000 | 106,350,000 | 1417 | 1432 | 0.379003376 | EXO5,SMAP2,ZFP69,ZNF684 |
| 3 | 106,275,000 | 106,425,000 | 1418 | 1416 | 0.684526996 | COL9A2,SMAP2,ZFP69 |
| 3 | 106,350,000 | 106,500,000 | 1419 | 1380 | 0.848605036 | COL9A2,RLF,SMAP2,TMCO2,ZMPSTE24 |
| 3 | 106,425,000 | 106,575,000 | 1420 | 1044 | 0.8589881 | RLF,TMCO2,ZMPSTE24 |
| 3 | 106,500,000 | 106,650,000 | 1421 | 1078 | 0.766384213 | CAP1,CLN1,RLF |
| 3 | 106,575,000 | 106,725,000 | 1422 | 1168 | 0.851709997 | CAP1,CLN1,MFSD2,RLF |
| 3 | 106,650,000 | 106,800,000 | 1423 | 1076 | 0.836426738 | CAP1,MFSD2,MYCL |
| 3 | 106,725,000 | 106,875,000 | 1424 | 1160 | 0.153570129 | MFSD2,MYCL,TRIT1 |
| 3 | 106,800,000 | 106,950,000 | 1425 | 1341 | -0.431025243 | PPIE,TRIT1,ENSBTAG00000017892 |
| 3 | 106,875,000 | 107,025,000 | 1426 | 1117 | -0.20866818 | HPCAL4,NT5C1A,PPIE,ENSBTAG00000017892 |
| 3 | 106,950,000 | 107,100,000 | 1427 | 649 | 0.728621945 | HEYL,HPCAL4,NT5C1A,PABPC4 |
| 3 | 107,025,000 | 107,175,000 | 1428 | 634 | 0.946659347 | HEYL,PABPC4,ENSBTAG00000046807 |
| 3 | 107,100,000 | 107,250,000 | 1429 | 898 | 0.973904196 | KIAA0754,MACF1,ENSBTAG00000046807 |
| 3 | 107,175,000 | 107,325,000 | 1430 | 872 | 0.652160169 | KIAA0754,MACF1 |
| 3 | 107,250,000 | 107,400,000 | 1431 | 944 | 0.228054533 | MACF1 |
| 3 | 107,325,000 | 107,475,000 | 1432 | 1213 | 0.595696833 | MACF1 |
| 3 | 107,400,000 | 107,550,000 | 1433 | 1089 | 0.549121567 | ENSBTAG00000047038 |
| 3 | 107,475,000 | 107,625,000 | 1434 | 873 | 0.001447783 | AKIRIN1,NDUFS5,ENSBTAG00000047038 |
| 3 | 107,550,000 | 107,700,000 | 1435 | 918 | 0.610272311 | AKIRIN1,GJA9,NDUFS5,RHBDL2 |
| 3 | 107,625,000 | 107,775,000 | 1436 | 747 | 0.801090289 | GJA9,MYCBP,RHBDL2,RRAGC |
| 3 | 107,700,000 | 107,850,000 | 1437 | 482 | 0.745128868 | MYCBP,RRAGC |
| 3 | 107,775,000 | 107,925,000 | 1438 | 401 | 0.697753319 | |
| 3 | 107,850,000 | 108,000,000 | 1439 | 669 | 0.836811845 | |
| 3 | 107,925,000 | 108,075,000 | 1440 | 869 | 1.020510299 | |
| 3 | 108,000,000 | 108,150,000 | 1441 | 985 | 0.93069698 | |
| 3 | 108,075,000 | 108,225,000 | 1442 | 1058 | 0.511063299 | |
| 3 | 108,150,000 | 108,300,000 | 1443 | 611 | 0.164333872 | |
| 3 | 108,225,000 | 108,375,000 | 1444 | 433 | 0.726542653 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 108,300,000 | 108,450,000 | 1445 | 613 | 0.562591656 | |
| 3 | 108,375,000 | 108,525,000 | 1446 | 651 | 0.521110928 | POU3F1 |
| 3 | 108,450,000 | 108,600,000 | 1447 | 651 | 0.529694491 | FHL3,INPP5B,POU3F1,SF3A3,UTP11L |
| 3 | 108,525,000 | 108,675,000 | 1448 | 738 | 0.251458245 | FHL3,INPP5B,MTF1,SF3A3,UTP11L |
| 3 | 108,600,000 | 108,750,000 | 1449 | 689 | 0.139729069 | C1orf122,EPHA10,INPP5B,MANEAL,MTF1,YRDC |
| 3 | 108,675,000 | 108,825,000 | 1450 | 863 | 0.860082775 | C1orf122,CDCA8,EPHA10,MANEAL,MGC166151,MTF1, YRDC |
| 3 | 108,750,000 | 108,900,000 | 1451 | 1034 | 0.514241127 | CDCA8,EPHA10,GNL2,MGC166151,RSPO1 |
| 3 | 108,825,000 | 108,975,000 | 1452 | 674 | 0.371190359 | DNALI1,GNL2,MEAF6,RSPO1,SNIP1 |
| 3 | 108,900,000 | 109,050,000 | 1453 | 481 | 1.382909113 | DNALI1,GNL2,MEAF6,SNIP1,ZC3H12A |
| 3 | 108,975,000 | 109,125,000 | 1454 | 751 | 1.052697584 | MEAF6,ZC3H12A |
| 3 | 109,050,000 | 109,200,000 | 1455 | 984 | 0.764737849 | |
| 3 | 109,125,000 | 109,275,000 | 1456 | 870 | 0.96351501 | |
| 3 | 109,200,000 | 109,350,000 | 1457 | 1059 | -0.278351732 | |
| 3 | 109,275,000 | 109,425,000 | 1458 | 1088 | -0.485425706 | |
| 3 | 109,350,000 | 109,500,000 | 1459 | 975 | 0.974999633 | |
| 3 | 109,425,000 | 109,575,000 | 1460 | 1134 | 0.857140337 | GRIK3 |
| 3 | 109,500,000 | 109,650,000 | 1461 | 911 | 0.597914169 | GRIK3 |
| 3 | 109,575,000 | 109,725,000 | 1462 | 663 | -0.215920384 | GRIK3 |
| 3 | 109,650,000 | 109,800,000 | 1463 | 935 | -0.457568335 | GRIK3 |
| 3 | 109,725,000 | 109,875,000 | 1464 | 1435 | 0.559834205 | |
| 3 | 109,800,000 | 109,950,000 | 1465 | 1603 | 0.85803459 | |
| 3 | 109,875,000 | 110,025,000 | 1466 | 1524 | 0.628547301 | CSF3R,ENSBTAG00000024097 |
| 3 | 109,950,000 | 110,100,000 | 1467 | 1410 | 0.128358717 | CSF3R,LSM10,OSCP1,STK40,ENSBTAG00000024097 |
| 3 | 110,025,000 | 110,175,000 | 1468 | 1031 | 0.403016846 | EVA1B,LSM10,OSCP1,STK40,THRAP3,ENSBTAG000000 038617 |
| 3 | 110,100,000 | 110,250,000 | 1469 | 762 | 0.788120581 | EVA1B,MAP7D1,STK40,THRAP3,ENSBTAG0000003861 7 |
| 3 | 110,175,000 | 110,325,000 | 1470 | 840 | 0.352247571 | ADPRHL2,COL8A2,MAP7D1,TEKT2,THRAP3,TRAPPC3 |
| 3 | 110,250,000 | 110,400,000 | 1471 | 835 | 0.429295058 | ADPRHL2,AGO3,COL8A2,TEKT2,TRAPPC3 |
| 3 | 110,325,000 | 110,475,000 | 1472 | 779 | 0.694156382 | AGO3,EIF2C1 |
| 3 | 110,400,000 | 110,550,000 | 1473 | 611 | -0.075369418 | AGO3,AGO4,EIF2C1 |
| 3 | 110,475,000 | 110,625,000 | 1474 | 682 | 0.563258312 | AGO4,CLSPN,EIF2C1 |
| 3 | 110,550,000 | 110,700,000 | 1475 | 1040 | 0.273389019 | AGO4,C1orf216,CLSPN |
| 3 | 110,625,000 | 110,775,000 | 1476 | 1012 | -0.35092117 | C1orf216,CLSPN,PSMB2,TFAP2E |
| 3 | 110,700,000 | 110,850,000 | 1477 | 730 | -0.028225266 | KIAA0319L,NCDN,PSMB2,TFAP2E |
| 3 | 110,775,000 | 110,925,000 | 1478 | 818 | 0.696969585 | KIAA0319L,NCDN,TFAP2E,ZMYM4 |
| 3 | 110,850,000 | 111,000,000 | 1479 | 775 | 0.355596184 | KIAA0319L,ZMYM4 |
| 3 | 110,925,000 | 111,075,000 | 1480 | 492 | -0.092067544 | ZMYM4 |
| 3 | 111,000,000 | 111,150,000 | 1481 | 383 | 0.502606163 | SFPQ |
| 3 | 111,075,000 | 111,225,000 | 1482 | 461 | 1.001083511 | SFPQ,ZMYM1 |
| 3 | 111,150,000 | 111,300,000 | 1483 | 688 | 0.722300557 | ZMYM1,ZMYM6NB,ENSBTAG00000021948 |
| 3 | 111,225,000 | 111,375,000 | 1484 | 639 | 0.464065893 | ZMYM6NB,ENSBTAG00000021948 |
| 3 | 111,300,000 | 111,450,000 | 1485 | 752 | 0.560778627 | DLGAP3,SMIM12 |
| 3 | 111,375,000 | 111,525,000 | 1486 | 961 | 0.318063748 | DLGAP3,GJA4,GJB3,GJB4,GJB5,SMIM12 |
| 3 | 111,450,000 | 111,600,000 | 1487 | 825 | -0.004983427 | GJA4,GJB3,GJB4,GJB5 |
| 3 | 111,525,000 | 111,675,000 | 1488 | 806 | 0.874198582 | GJB5 |
| 3 | 111,600,000 | 111,750,000 | 1489 | 1042 | 1.20948851 | |
| 3 | 111,675,000 | 111,825,000 | 1490 | 895 | 1.122168362 | |
| 3 | 111,750,000 | 111,900,000 | 1491 | 560 | 0.937045848 | |
| 3 | 111,825,000 | 111,975,000 | 1492 | 689 | 0.653215183 | |
| 3 | 111,900,000 | 112,050,000 | 1493 | 794 | 0.641978955 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 3 | 111,975,000 | 112,125,000 | 1494 | 826 | 1.037560833 | |
| 3 | 112,050,000 | 112,200,000 | 1495 | 800 | 1.194486142 | C1orf94 |
| 3 | 112,125,000 | 112,275,000 | 1496 | 802 | 0.469788339 | C1orf94 |
| 3 | 112,200,000 | 112,350,000 | 1497 | 720 | 0.183736909 | |
| 3 | 112,275,000 | 112,425,000 | 1498 | 869 | 0.921839138 | |
| 3 | 112,350,000 | 112,500,000 | 1499 | 979 | 1.038431871 | |
| 3 | 112,425,000 | 112,575,000 | 1500 | 997 | 1.046587935 | CSMD2,HMGB4 |
| 3 | 112,500,000 | 112,650,000 | 1501 | 1070 | 1.318643888 | CSMD2,HMGB4 |
| 3 | 112,575,000 | 112,725,000 | 1502 | 804 | 1.271560041 | CSMD2 |
| 3 | 112,650,000 | 112,800,000 | 1503 | 721 | -0.226879004 | CSMD2 |
| 3 | 112,725,000 | 112,875,000 | 1504 | 1066 | 0.101620363 | CSMD2 |
| 3 | 112,800,000 | 112,950,000 | 1505 | 1188 | 1.151570282 | CSMD2,ZSCAN20 |
| 3 | 112,875,000 | 113,025,000 | 1506 | 785 | 1.198008518 | CSMD2,EFHD1,ZSCAN20 |
| 3 | 112,950,000 | 113,100,000 | 1507 | 529 | 1.060872395 | EFHD1,GIGYF2 |
| 3 | 113,025,000 | 113,175,000 | 1508 | 429 | 0.775834886 | EFHD1,GIGYF2,KCNJ13 |
| 3 | 113,100,000 | 113,250,000 | 1509 | 552 | 1.025723659 | C2orf82,GIGYF2,KCNJ13,NGEF |
| 3 | 113,175,000 | 113,325,000 | 1510 | 744 | 0.293072229 | C2orf82,GIGYF2,NGEF |
| 3 | 113,250,000 | 113,400,000 | 1511 | 828 | -0.97779023 | NEU2,NGEF |
| 3 | 113,325,000 | 113,475,000 | 1512 | 814 | -0.41206068 | INPP5D,NEU2 |
| 3 | 113,400,000 | 113,550,000 | 1513 | 752 | 0.168858736 | INPP5D,ENSBTAG00000030239 |
| 3 | 113,475,000 | 113,625,000 | 1514 | 607 | -0.256210964 | ATG16L1,INPP5D,ENSBTAG00000030239 |
| 3 | 113,550,000 | 113,700,000 | 1515 | 496 | 0.542966562 | ATG16L1,SAG |
| 3 | 113,625,000 | 113,775,000 | 1516 | 517 | 0.606665729 | DGKH,SAG |
| 3 | 113,700,000 | 113,850,000 | 1517 | 604 | 0.831187988 | DGKH,USP40 |
| 3 | 113,775,000 | 113,925,000 | 1518 | 502 | 0.939183844 | DGKH,UGT1A1,USP40 |
| 3 | 113,850,000 | 114,000,000 | 1519 | 506 | 0.434120688 | UGT1A1,USP40,ENSBTAG00000046353,ENSBTAG0000048275 |
| 3 | 113,925,000 | 114,075,000 | 1520 | 618 | 0.168940696 | DNAJB3,MROH2A,UGT1A1,ENSBTAG00000046353,ENSBTAG00000048212,ENSBTAG00000048275 |
| 3 | 114,000,000 | 114,150,000 | 1521 | 495 | -0.053328727 | DNAJB3,HJURP,MROH2A,UGT1A1,ENSBTAG00000048212 |
| 3 | 114,075,000 | 114,225,000 | 1522 | 1124 | -0.899354338 | HJURP,MROH2A,TRPM8 |
| 3 | 114,150,000 | 114,300,000 | 1523 | 1301 | -1.171230746 | TRPM8 |
| 3 | 114,225,000 | 114,375,000 | 1524 | 1020 | 0.368135507 | SPP2,TRPM8 |
| 3 | 114,300,000 | 114,450,000 | 1525 | 1565 | 0.385135641 | SPP2 |
| 3 | 114,375,000 | 114,525,000 | 1526 | 1558 | -0.292702648 | |
| 3 | 114,450,000 | 114,600,000 | 1527 | 1091 | -0.128759192 | |
| 3 | 114,525,000 | 114,675,000 | 1528 | 967 | 0.910718957 | |
| 3 | 114,600,000 | 114,750,000 | 1529 | 1060 | 1.045481521 | ARL4C |
| 3 | 114,675,000 | 114,825,000 | 1530 | 1534 | 0.18612164 | ARL4C |
| 3 | 114,750,000 | 114,900,000 | 1531 | 1218 | 0.004548001 | |
| 3 | 114,825,000 | 114,975,000 | 1532 | 816 | 0.943260639 | |
| 3 | 114,900,000 | 115,050,000 | 1533 | 839 | 1.05463098 | |
| 3 | 114,975,000 | 115,125,000 | 1534 | 757 | 0.909795306 | |
| 3 | 115,050,000 | 115,200,000 | 1535 | 754 | 0.707992877 | |
| 3 | 115,125,000 | 115,275,000 | 1536 | 1352 | -0.065407913 | SH3BP4 |
| 3 | 115,200,000 | 115,350,000 | 1537 | 1836 | 0.429128647 | SH3BP4 |
| 3 | 115,275,000 | 115,425,000 | 1538 | 1622 | 0.550327016 | |
| 3 | 115,350,000 | 115,500,000 | 1539 | 1229 | 0.263672569 | |
| 3 | 115,425,000 | 115,575,000 | 1540 | 787 | 0.143730905 | |
| 3 | 115,500,000 | 115,650,000 | 1541 | 1005 | 0.379101192 | |
| 3 | 115,575,000 | 115,725,000 | 1542 | 1190 | 0.774325483 | |
| 3 | 115,650,000 | 115,800,000 | 1543 | 842 | 1.029567857 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 3 | 115,725,000 | 115,875,000 | 1544 | 669 | 0.406847898 | AGAP1 |
| 3 | 115,800,000 | 115,950,000 | 1545 | 1100 | 0.549079115 | AGAP1 |
| 3 | 115,875,000 | 116,025,000 | 1546 | 1492 | 0.845477724 | AGAP1 |
| 3 | 115,950,000 | 116,100,000 | 1547 | 1381 | 0.689699792 | AGAP1 |
| 3 | 116,025,000 | 116,175,000 | 1548 | 829 | 0.36338745 | AGAP1 |
| 3 | 116,100,000 | 116,250,000 | 1549 | 692 | -0.018419754 | AGAP1 |
| 3 | 116,175,000 | 116,325,000 | 1550 | 652 | 0.237725274 | AGAP1,ASB18,GBX2 |
| 3 | 116,250,000 | 116,400,000 | 1551 | 839 | 0.09807692 | ASB18,GBX2 |
| 3 | 116,325,000 | 116,475,000 | 1552 | 1403 | -0.225835464 | ASB18,IQCA1 |
| 3 | 116,400,000 | 116,550,000 | 1553 | 972 | -0.455976435 | IQCA1 |
| 3 | 116,475,000 | 116,625,000 | 1554 | 560 | -2.157392722 | IQCA1 |
| 3 | 116,550,000 | 116,700,000 | 1555 | 1168 | 0.130843844 | CXCR7,IQCA1 |
| 3 | 116,625,000 | 116,775,000 | 1556 | 1111 | 1.033761211 | CXCR7 |
| 3 | 116,700,000 | 116,850,000 | 1557 | 936 | 0.739314782 | |
| 3 | 116,775,000 | 116,925,000 | 1558 | 1065 | 0.419367782 | |
| 3 | 116,850,000 | 117,000,000 | 1559 | 1005 | -0.492855745 | |
| 3 | 116,925,000 | 117,075,000 | 1560 | 1435 | -0.490275893 | |
| 3 | 117,000,000 | 117,150,000 | 1561 | 1726 | 0.334478959 | |
| 3 | 117,075,000 | 117,225,000 | 1562 | 1408 | 0.790672303 | COPS8 |
| 3 | 117,150,000 | 117,300,000 | 1563 | 1069 | 0.205633428 | COPS8 |
| 3 | 117,225,000 | 117,375,000 | 1564 | 992 | 0.174768177 | |
| 3 | 117,300,000 | 117,450,000 | 1565 | 1013 | 0.841597402 | COL6A3 |
| 3 | 117,375,000 | 117,525,000 | 1566 | 858 | 0.064395756 | COL6A3,RPS16 |
| 3 | 117,450,000 | 117,600,000 | 1567 | 1065 | -1.861766394 | COL6A3,MLPH,RPS16 |
| 3 | 117,525,000 | 117,675,000 | 1568 | 1520 | -1.479313444 | MLPH,PRLH,RAB17 |
| 3 | 117,600,000 | 117,750,000 | 1569 | 1594 | -0.724089358 | LRRFIP1,MLPH,PRLH,RAB17 |
| 3 | 117,675,000 | 117,825,000 | 1570 | 1308 | -0.261340366 | LRRFIP1 |
| 3 | 117,750,000 | 117,900,000 | 1571 | 1025 | 0.370979332 | LRRFIP1,RBM44 |
| 3 | 117,825,000 | 117,975,000 | 1572 | 1012 | -0.570493432 | LRRFIP1,RAMP1,RBM44,ENSBTAG00000045970 |
| 3 | 117,900,000 | 118,050,000 | 1573 | 662 | -0.654855252 | RAMP1,RBM44,SCLY,UBE2F,ENSBTAG00000045970 |
| 3 | 117,975,000 | 118,125,000 | 1574 | 428 | 0.080509868 | ESPNL,FAM132B,SCLY,UBE2F |
| 3 | 118,050,000 | 118,200,000 | 1575 | 545 | 0.879211335 | ESPNL,FAM132B,HES6,ILKAP,SCLY,ENSBTAG00000001879 |
| 3 | 118,125,000 | 118,275,000 | 1576 | 858 | 1.267410697 | FAM132B,HES6,ILKAP,TRAF3IP1,ENSBTAG00000001879,ENSBTAG00000045685 |
| 3 | 118,200,000 | 118,350,000 | 1577 | 1037 | 1.26710131 | TRAF3IP1,ENSBTAG00000001879,ENSBTAG00000045685 |
| 3 | 118,275,000 | 118,425,000 | 1578 | 889 | 0.693548377 | ASB1,TRAF3IP1 |
| 3 | 118,350,000 | 118,500,000 | 1579 | 886 | 0.123556448 | ASB1 |
| 3 | 118,425,000 | 118,575,000 | 1580 | 1052 | 0.9925348 | |
| 3 | 118,500,000 | 118,650,000 | 1581 | 904 | 1.032712443 | TWIST2 |
| 3 | 118,575,000 | 118,725,000 | 1582 | 827 | 0.307158651 | TWIST2 |
| 3 | 118,650,000 | 118,800,000 | 1583 | 1104 | 0.12538441 | TWIST2 |
| 3 | 118,725,000 | 118,875,000 | 1584 | 967 | 0.254567998 | |
| 3 | 118,800,000 | 118,950,000 | 1585 | 688 | 0.199011719 | HDAC4 |
| 3 | 118,875,000 | 119,025,000 | 1586 | 1085 | 0.497770528 | HDAC4 |
| 3 | 118,950,000 | 119,100,000 | 1587 | 1586 | 0.760694206 | HDAC4 |
| 3 | 119,025,000 | 119,175,000 | 1588 | 2046 | 0.525009986 | HDAC4 |
| 3 | 119,100,000 | 119,250,000 | 1589 | 2291 | 0.611882306 | HDAC4,ENSBTAG00000045515 |
| 3 | 119,175,000 | 119,325,000 | 1590 | 2552 | 0.4570738 | HDAC4,ENSBTAG00000045515 |
| 3 | 119,250,000 | 119,400,000 | 1591 | 2565 | 0.283423224 | HDAC4 |
| 3 | 119,325,000 | 119,475,000 | 1592 | 2335 | 0.072351579 | CSF2RA,HDAC4 |
| 3 | 119,400,000 | 119,550,000 | 1593 | 2419 | -0.090836038 | CSF2RA,HDAC4 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 3 | 119,475,000 | 119,625,000 | 1594 | 2588 | 0.267702057 | |
| 3 | 119,550,000 | 119,700,000 | 1595 | 2627 | -0.293494253 | ENSBTAG00000046002,ENSBTAG00000046792 |
| 3 | 119,625,000 | 119,775,000 | 1596 | 2043 | -0.920791338 | ENSBTAG00000045833,ENSBTAG00000045911,ENSBTAG00000046002,ENSBTAG00000046792 |
| 3 | 119,700,000 | 119,850,000 | 1597 | 1768 | -1.333692994 | NDUFA10,ENSBTAG00000003281,ENSBTAG000000030221,ENSBTAG00000040084,ENSBTAG00000045833,ENSBTAG00000045911 |
| 3 | 119,775,000 | 119,925,000 | 1598 | 1875 | -0.755004092 | NDUFA10,ENSBTAG00000003281,ENSBTAG000000030221,ENSBTAG00000039566,ENSBTAG00000040084,ENSBTAG00000047496,ENSBTAG00000048084 |
| 3 | 119,850,000 | 120,000,000 | 1599 | 2055 | 0.805138647 | ENSBTAG00000039566,ENSBTAG00000046632,ENSBTAG00000047496,ENSBTAG00000047813,ENSBTAG00000048084 |
| 3 | 119,925,000 | 120,075,000 | 1600 | 1920 | 0.889038932 | ENSBTAG00000039281,ENSBTAG00000040217,ENSBTAG00000040382,ENSBTAG00000046632,ENSBTAG00000047813 |
| 3 | 120,000,000 | 120,150,000 | 1601 | 1644 | 0.63841322 | MYEOV2,OTOS,ENSBTAG00000033837,ENSBTAG0000038082,ENSBTAG00000039281,ENSBTAG00000040217,ENSBTAG00000040382 |
| 3 | 120,075,000 | 120,225,000 | 1602 | 2101 | 0.803773317 | MYEOV2,OTOS,ENSBTAG00000033837,ENSBTAG0000038082 |
| 3 | 120,150,000 | 120,300,000 | 1603 | 2228 | 0.934499142 | ANKMY1 |
| 3 | 120,225,000 | 120,375,000 | 1604 | 1854 | 0.709866659 | ANKMY1,CAPN10,RNPEPL1 |
| 3 | 120,300,000 | 120,450,000 | 1605 | 1874 | 0.504211763 | CAPN10,GPC1,GPR35,RNPEPL1 |
| 3 | 120,375,000 | 120,525,000 | 1606 | 1730 | 0.286762289 | GPC1,GPR35,KIF1A,ENSBTAG00000003389 |
| 3 | 120,450,000 | 120,600,000 | 1607 | 1592 | 0.254849112 | GPC1,KIF1A,ENSBTAG00000003389 |
| 3 | 120,525,000 | 120,675,000 | 1608 | 1863 | 0.681976066 | AGXT,C2orf54,KIF1A |
| 3 | 120,600,000 | 120,750,000 | 1609 | 1830 | 0.77984155 | AGXT,C2orf54,KIF1A,ENSBTAG00000005168 |
| 3 | 120,675,000 | 120,825,000 | 1610 | 1654 | 0.893644316 | MTERFD2,PASK,SNED1,ENSBTAG00000005168 |
| 3 | 120,750,000 | 120,900,000 | 1611 | 1833 | 0.834095118 | MTERFD2,PASK,PPP1R7,SNED1 |
| 3 | 120,825,000 | 120,975,000 | 1612 | 1935 | 0.791890283 | HDLBP,PASK,PPP1R7,SEPT2 |
| 3 | 120,900,000 | 121,050,000 | 1613 | 2013 | 0.971122692 | HDLBP,SEPT2 |
| 3 | 120,975,000 | 121,125,000 | 1614 | 1863 | 1.133102451 | BOK,SEPT2,STK25,THAP4,ENSBTAG00000013110 |
| 3 | 121,050,000 | 121,200,000 | 1615 | 1460 | 0.782587843 | ATG4B,BOK,DTYMK,ING5,STK25,THAP4,ENSBTAG00000013110 |
| 3 | 121,125,000 | 121,275,000 | 1616 | 1360 | 0.672593574 | ATG4B,D2HGDH,DTYMK,GAL3ST2,ING5,NEU4,THAP4 |
| 3 | 121,200,000 | 121,350,000 | 1617 | 1217 | 0.898926964 | D2HGDH,GAL3ST2,ING5,NEU4,PDCD1,RTP5 |
| 3 | 121,275,000 | 121,425,000 | 1618 | 1143 | 0.777037355 | PDCD1,RTP5 |
| 3 | 121,350,000 | 121,430,405 | 1619 | 619 | 0.760627409 | |
| 4 | 0 | 150,000 | 1 | 598 | 1.312673021 | |
| 4 | 75,000 | 225,000 | 2 | 289 | -0.055925626 | |
| 4 | 150,000 | 300,000 | 3 | 273 | 0.405469612 | |
| 4 | 225,000 | 375,000 | 4 | 354 | 0.538571534 | |
| 4 | 300,000 | 450,000 | 5 | 472 | 0.044539799 | VSTM2A |
| 4 | 375,000 | 525,000 | 6 | 499 | -1.090754864 | VSTM2A |
| 4 | 450,000 | 600,000 | 7 | 541 | -2.614962507 | |
| 4 | 525,000 | 675,000 | 8 | 537 | -2.351536953 | |
| 4 | 600,000 | 750,000 | 9 | 709 | 0.012882887 | |
| 4 | 675,000 | 825,000 | 10 | 1096 | 0.194951159 | |
| 4 | 750,000 | 900,000 | 11 | 1146 | -0.14777647 | |
| 4 | 825,000 | 975,000 | 12 | 921 | -0.083475286 | |
| 4 | 900,000 | 1,050,000 | 13 | 859 | -0.010846733 | |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|------|
| 4 | 975,000 | 1,125,000 | 14 | 1105 | -0.590815308 | |
| 4 | 1,050,000 | 1,200,000 | 15 | 1255 | -1.022661975 | |
| 4 | 1,125,000 | 1,275,000 | 16 | 1124 | -0.512914655 | |
| 4 | 1,200,000 | 1,350,000 | 17 | 1308 | 0.227339854 | |
| 4 | 1,275,000 | 1,425,000 | 18 | 1687 | 0.722436271 | |
| 4 | 1,350,000 | 1,500,000 | 19 | 1681 | 0.661797308 | |
| 4 | 1,425,000 | 1,575,000 | 20 | 1342 | 0.665523883 | |
| 4 | 1,500,000 | 1,650,000 | 21 | 1355 | 0.932354351 | |
| 4 | 1,575,000 | 1,725,000 | 22 | 1401 | -1.635714419 | |
| 4 | 1,650,000 | 1,800,000 | 23 | 1177 | -2.559181283 | |
| 4 | 1,725,000 | 1,875,000 | 24 | 895 | -0.353340079 | |
| 4 | 1,800,000 | 1,950,000 | 25 | 828 | 0.021723744 | |
| 4 | 1,875,000 | 2,025,000 | 26 | 746 | 0.406169992 | |
| 4 | 1,950,000 | 2,100,000 | 27 | 720 | 0.433751994 | |
| 4 | 2,025,000 | 2,175,000 | 28 | 988 | 0.564512422 | |
| 4 | 2,100,000 | 2,250,000 | 29 | 955 | 0.918725494 | |
| 4 | 2,175,000 | 2,325,000 | 30 | 1062 | -0.33980396 | |
| 4 | 2,250,000 | 2,400,000 | 31 | 1221 | -1.057823493 | |
| 4 | 2,325,000 | 2,475,000 | 32 | 1346 | -0.18212333 | |
| 4 | 2,400,000 | 2,550,000 | 33 | 1082 | 0.024584191 | |
| 4 | 2,475,000 | 2,625,000 | 34 | 932 | -0.385042178 | |
| 4 | 2,550,000 | 2,700,000 | 35 | 974 | -0.533544988 | |
| 4 | 2,625,000 | 2,775,000 | 36 | 809 | -1.889537656 | |
| 4 | 2,700,000 | 2,850,000 | 37 | 1269 | -0.694198328 | |
| 4 | 2,775,000 | 2,925,000 | 38 | 1615 | 0.554339631 | |
| 4 | 2,850,000 | 3,000,000 | 39 | 1575 | 0.627217246 | |
| 4 | 2,925,000 | 3,075,000 | 40 | 1469 | 0.67260679 | |
| 4 | 3,000,000 | 3,150,000 | 41 | 1323 | -0.205191795 | |
| 4 | 3,075,000 | 3,225,000 | 42 | 1400 | -1.654139123 | |
| 4 | 3,150,000 | 3,300,000 | 43 | 1315 | -1.536206587 | |
| 4 | 3,225,000 | 3,375,000 | 44 | 1288 | -0.385070091 | |
| 4 | 3,300,000 | 3,450,000 | 45 | 1417 | -0.100898972 | |
| 4 | 3,375,000 | 3,525,000 | 46 | 1308 | 0.244815525 | |
| 4 | 3,450,000 | 3,600,000 | 47 | 1334 | 0.494278667 | |
| 4 | 3,525,000 | 3,675,000 | 48 | 1519 | 0.496091689 | |
| 4 | 3,600,000 | 3,750,000 | 49 | 1512 | 0.413584489 | |
| 4 | 3,675,000 | 3,825,000 | 50 | 1485 | 0.827016988 | |
| 4 | 3,750,000 | 3,900,000 | 51 | 1381 | 0.42178867 | |
| 4 | 3,825,000 | 3,975,000 | 52 | 1294 | -0.30428521 | |
| 4 | 3,900,000 | 4,050,000 | 53 | 1264 | -0.000959901 | |
| 4 | 3,975,000 | 4,125,000 | 54 | 1172 | -0.648017625 | |
| 4 | 4,050,000 | 4,200,000 | 55 | 1021 | -0.697675775 | |
| 4 | 4,125,000 | 4,275,000 | 56 | 854 | 0.434265888 | |
| 4 | 4,200,000 | 4,350,000 | 57 | 1244 | -1.807263568 | |
| 4 | 4,275,000 | 4,425,000 | 58 | 1466 | -1.16439207 | |
| 4 | 4,350,000 | 4,500,000 | 59 | 1378 | 0.023031177 | COBL |
| 4 | 4,425,000 | 4,575,000 | 60 | 1304 | 0.291519595 | COBL |
| 4 | 4,500,000 | 4,650,000 | 61 | 966 | 0.129061387 | COBL |
| 4 | 4,575,000 | 4,725,000 | 62 | 973 | -1.443795687 | COBL |
| 4 | 4,650,000 | 4,800,000 | 63 | 1221 | -0.343380756 | COBL |
| 4 | 4,725,000 | 4,875,000 | 64 | 1104 | -0.095260246 | COBL |
| 4 | 4,800,000 | 4,950,000 | 65 | 905 | -0.946297325 | |
| 4 | 4,875,000 | 5,025,000 | 66 | 1108 | -1.406646067 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|-------------------------------------|
| 4 | 4,950,000 | 5,100,000 | 67 | 1406 | -1.667850763 | |
| 4 | 5,025,000 | 5,175,000 | 68 | 1454 | -1.197526459 | GRB10 |
| 4 | 5,100,000 | 5,250,000 | 69 | 1106 | 0.543631703 | GRB10 |
| 4 | 5,175,000 | 5,325,000 | 70 | 1180 | 0.397528555 | DDC,GRB10 |
| 4 | 5,250,000 | 5,400,000 | 71 | 1277 | 0.140605319 | DDC,FIGNL1,ENSBTAG00000001502 |
| 4 | 5,325,000 | 5,475,000 | 72 | 1141 | 0.842386243 | DDC,FIGNL1,IKZF1,ENSBTAG00000001502 |
| 4 | 5,400,000 | 5,550,000 | 73 | 1102 | 0.893008524 | IKZF1 |
| 4 | 5,475,000 | 5,625,000 | 74 | 936 | 0.294425465 | IKZF1 |
| 4 | 5,550,000 | 5,700,000 | 75 | 978 | 0.173092315 | C7orf72 |
| 4 | 5,625,000 | 5,775,000 | 76 | 1009 | 0.296350489 | C7orf72,ZPBP |
| 4 | 5,700,000 | 5,850,000 | 77 | 921 | 0.302071936 | C7orf72,ZPBP |
| 4 | 5,775,000 | 5,925,000 | 78 | 1255 | 0.503579231 | VWC2,ZPBP |
| 4 | 5,850,000 | 6,000,000 | 79 | 1637 | 0.548117442 | VWC2 |
| 4 | 5,925,000 | 6,075,000 | 80 | 1296 | 0.409256431 | VWC2 |
| 4 | 6,000,000 | 6,150,000 | 81 | 1265 | -0.216673306 | VWC2 |
| 4 | 6,075,000 | 6,225,000 | 82 | 1569 | -0.560914024 | |
| 4 | 6,150,000 | 6,300,000 | 83 | 1675 | -0.038149088 | |
| 4 | 6,225,000 | 6,375,000 | 84 | 1833 | 0.48664757 | |
| 4 | 6,300,000 | 6,450,000 | 85 | 1440 | 0.440941933 | |
| 4 | 6,375,000 | 6,525,000 | 86 | 1228 | 0.527014752 | |
| 4 | 6,450,000 | 6,600,000 | 87 | 1364 | 0.363918342 | |
| 4 | 6,525,000 | 6,675,000 | 88 | 1405 | 0.282654064 | |
| 4 | 6,600,000 | 6,750,000 | 89 | 1155 | 0.561711628 | |
| 4 | 6,675,000 | 6,825,000 | 90 | 1212 | 0.71744406 | |
| 4 | 6,750,000 | 6,900,000 | 91 | 1653 | 0.292371282 | |
| 4 | 6,825,000 | 6,975,000 | 92 | 1539 | -0.570958458 | |
| 4 | 6,900,000 | 7,050,000 | 93 | 1521 | -0.289780597 | |
| 4 | 6,975,000 | 7,125,000 | 94 | 1662 | 0.099789243 | ABCA13 |
| 4 | 7,050,000 | 7,200,000 | 95 | 1826 | -0.126307721 | ABCA13 |
| 4 | 7,125,000 | 7,275,000 | 96 | 1993 | 0.092632778 | ABCA13 |
| 4 | 7,200,000 | 7,350,000 | 97 | 2046 | 0.619972737 | ABCA13 |
| 4 | 7,275,000 | 7,425,000 | 98 | 1978 | 1.116774146 | ABCA13 |
| 4 | 7,350,000 | 7,500,000 | 99 | 1939 | 0.933932024 | ABCA13 |
| 4 | 7,425,000 | 7,575,000 | 100 | 1923 | 0.437788637 | ABCA13,UPP1 |
| 4 | 7,500,000 | 7,650,000 | 101 | 2005 | 0.630830626 | C4H7orf57,SUN3,UPP1 |
| 4 | 7,575,000 | 7,725,000 | 102 | 2124 | 0.791269105 | C4H7orf57,CLDN12,SUN3 |
| 4 | 7,650,000 | 7,800,000 | 103 | 1807 | 0.931254574 | CLDN12,SUN3 |
| 4 | 7,725,000 | 7,875,000 | 104 | 1285 | 0.604803401 | |
| 4 | 7,800,000 | 7,950,000 | 105 | 1476 | 0.546334578 | |
| 4 | 7,875,000 | 8,025,000 | 106 | 1683 | 0.756054305 | |
| 4 | 7,950,000 | 8,100,000 | 107 | 1649 | 0.761405254 | |
| 4 | 8,025,000 | 8,175,000 | 108 | 1706 | 0.590016099 | |
| 4 | 8,100,000 | 8,250,000 | 109 | 1408 | 0.406059207 | |
| 4 | 8,175,000 | 8,325,000 | 110 | 1292 | 0.136960821 | |
| 4 | 8,250,000 | 8,400,000 | 111 | 1332 | 0.280774135 | |
| 4 | 8,325,000 | 8,475,000 | 112 | 1032 | 0.220665578 | |
| 4 | 8,400,000 | 8,550,000 | 113 | 1007 | 0.217200148 | FZD1 |
| 4 | 8,475,000 | 8,625,000 | 114 | 1004 | 0.617314948 | FZD1,ENSBTAG00000027319 |
| 4 | 8,550,000 | 8,700,000 | 115 | 1089 | 0.502386467 | ENSBTAG00000027319 |
| 4 | 8,625,000 | 8,775,000 | 116 | 1359 | 0.435652712 | |
| 4 | 8,700,000 | 8,850,000 | 117 | 1337 | 0.556619108 | |
| 4 | 8,775,000 | 8,925,000 | 118 | 1305 | 0.885631214 | |
| 4 | 8,850,000 | 9,000,000 | 119 | 1161 | 0.989737571 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 4 | 8,925,000 | 9,075,000 | 120 | 1322 | 0.614402766 | |
| 4 | 9,000,000 | 9,150,000 | 121 | 1540 | 0.777775708 | MTERF1 |
| 4 | 9,075,000 | 9,225,000 | 122 | 1652 | 1.058168152 | AKAP9,MTERF1 |
| 4 | 9,150,000 | 9,300,000 | 123 | 1670 | 1.10782213 | AKAP9 |
| 4 | 9,225,000 | 9,375,000 | 124 | 1603 | 1.222679598 | AKAP9,CYP51A1,LRRD1 |
| 4 | 9,300,000 | 9,450,000 | 125 | 1633 | 1.175128745 | AKAP9,CYP51A1,KRIT1,LRRD1 |
| 4 | 9,375,000 | 9,525,000 | 126 | 1509 | 0.977038217 | ANKIB1,KRIT1 |
| 4 | 9,450,000 | 9,600,000 | 127 | 1471 | 0.789040924 | ANKIB1,TMBIM1B,ENSBTAG00000048169 |
| 4 | 9,525,000 | 9,675,000 | 128 | 1887 | 0.974823085 | ANKIB1,GATAD1,PEX1,TMBIM1B,ENSBTAG00000048169 |
| 4 | 9,600,000 | 9,750,000 | 129 | 2013 | 1.059156438 | GATAD1,PEX1,RBM48,TMBIM1B,ENSBTAG00000003810 |
| 4 | 9,675,000 | 9,825,000 | 130 | 1568 | 1.085001133 | CDK6,PEX1,RBM48,ENSBTAG00000003810 |
| 4 | 9,750,000 | 9,900,000 | 131 | 1250 | 0.934203583 | CDK6 |
| 4 | 9,825,000 | 9,975,000 | 132 | 1235 | 0.497946492 | CDK6 |
| 4 | 9,900,000 | 10,050,000 | 133 | 1259 | 0.062149424 | CDK6 |
| 4 | 9,975,000 | 10,125,000 | 134 | 1092 | -0.892384067 | CDK6 |
| 4 | 10,050,000 | 10,200,000 | 135 | 969 | -1.235428794 | |
| 4 | 10,125,000 | 10,275,000 | 136 | 1091 | 0.679274364 | |
| 4 | 10,200,000 | 10,350,000 | 137 | 1451 | 0.706490532 | SAMD9 |
| 4 | 10,275,000 | 10,425,000 | 138 | 1719 | 0.849720169 | HEPACAM2,SAMD9 |
| 4 | 10,350,000 | 10,500,000 | 139 | 1562 | 1.383791926 | CCDC132,HEPACAM2 |
| 4 | 10,425,000 | 10,575,000 | 140 | 1585 | 1.278017361 | CCDC132 |
| 4 | 10,500,000 | 10,650,000 | 141 | 1664 | 1.110563134 | CALCR,CCDC132 |
| 4 | 10,575,000 | 10,725,000 | 142 | 1564 | 0.37603922 | CALCR |
| 4 | 10,650,000 | 10,800,000 | 143 | 1616 | -0.505836255 | CALCR |
| 4 | 10,725,000 | 10,875,000 | 144 | 1654 | -1.059531468 | |
| 4 | 10,800,000 | 10,950,000 | 145 | 1572 | -0.940880028 | |
| 4 | 10,875,000 | 11,025,000 | 146 | 1648 | -1.020351998 | |
| 4 | 10,950,000 | 11,100,000 | 147 | 1882 | -0.692219209 | GNG11,GNGT1,TFPI2 |
| 4 | 11,025,000 | 11,175,000 | 148 | 2297 | 0.504331632 | BET1,GNG11,GNGT1,TFPI2 |
| 4 | 11,100,000 | 11,250,000 | 149 | 2202 | 0.756760876 | BET1 |
| 4 | 11,175,000 | 11,325,000 | 150 | 1610 | 0.726364824 | BET1 |
| 4 | 11,250,000 | 11,400,000 | 151 | 1612 | 0.894310123 | |
| 4 | 11,325,000 | 11,475,000 | 152 | 1680 | 0.710496353 | |
| 4 | 11,400,000 | 11,550,000 | 153 | 1402 | 0.688398787 | |
| 4 | 11,475,000 | 11,625,000 | 154 | 1310 | 0.510367791 | COL1A2 |
| 4 | 11,550,000 | 11,700,000 | 155 | 1155 | 0.218185067 | COL1A2 |
| 4 | 11,625,000 | 11,775,000 | 156 | 808 | 0.776694768 | CASD1,COL1A2 |
| 4 | 11,700,000 | 11,850,000 | 157 | 771 | 1.109383817 | CASD1,SGCE |
| 4 | 11,775,000 | 11,925,000 | 158 | 708 | 0.938266553 | CASD1,PEG10,SGCE |
| 4 | 11,850,000 | 12,000,000 | 159 | 1026 | -0.64697497 | PEG10,SGCE |
| 4 | 11,925,000 | 12,075,000 | 160 | 1208 | 0.106222995 | PPP1R9A |
| 4 | 12,000,000 | 12,150,000 | 161 | 791 | 1.283665456 | PPP1R9A |
| 4 | 12,075,000 | 12,225,000 | 162 | 987 | 0.924971587 | PPP1R9A |
| 4 | 12,150,000 | 12,300,000 | 163 | 1153 | 0.96039751 | PPP1R9A |
| 4 | 12,225,000 | 12,375,000 | 164 | 872 | 0.746813926 | PPP1R9A |
| 4 | 12,300,000 | 12,450,000 | 165 | 849 | 0.09293841 | PON1,PON3,PPP1R9A |
| 4 | 12,375,000 | 12,525,000 | 166 | 777 | -0.100642645 | PON1,PON2,PON3,PPP1R9A |
| 4 | 12,450,000 | 12,600,000 | 167 | 1094 | 0.422823464 | ASB4,PON2,PON3 |
| 4 | 12,525,000 | 12,675,000 | 168 | 1148 | 0.023298566 | ASB4,ENSBTAG00000038030 |
| 4 | 12,600,000 | 12,750,000 | 169 | 667 | -1.345070062 | ASB4,ENSBTAG00000038030,ENSBTAG00000047555 |
| 4 | 12,675,000 | 12,825,000 | 170 | 751 | -0.919870198 | ASB4,PKD4,ENSBTAG00000047555 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------|
| 4 | 12,750,000 | 12,900,000 | 171 | 702 | -0.596601538 | PDK4 |
| 4 | 12,825,000 | 12,975,000 | 172 | 951 | 0.762425199 | DYNC1I1 |
| 4 | 12,900,000 | 13,050,000 | 173 | 1513 | 0.864693682 | DYNC1I1 |
| 4 | 12,975,000 | 13,125,000 | 174 | 1717 | 0.694024138 | DYNC1I1 |
| 4 | 13,050,000 | 13,200,000 | 175 | 1822 | 0.640391994 | DYNC1I1 |
| 4 | 13,125,000 | 13,275,000 | 176 | 1606 | 0.338022449 | DYNC1I1 |
| 4 | 13,200,000 | 13,350,000 | 177 | 1309 | 0.038283504 | DYNC1I1,SLC25A13 |
| 4 | 13,275,000 | 13,425,000 | 178 | 1255 | 0.506903655 | DYNC1I1,SLC25A13 |
| 4 | 13,350,000 | 13,500,000 | 179 | 1216 | 1.127862894 | SLC25A13 |
| 4 | 13,425,000 | 13,575,000 | 180 | 753 | 1.058039081 | SLC25A13 |
| 4 | 13,500,000 | 13,650,000 | 181 | 498 | 0.629942389 | SLC25A13,ENSBTAG00000035660 |
| 4 | 13,575,000 | 13,725,000 | 182 | 621 | 0.562605369 | ENSBTAG00000035660 |
| 4 | 13,650,000 | 13,800,000 | 183 | 624 | 0.858698582 | |
| 4 | 13,725,000 | 13,875,000 | 184 | 776 | -0.428474323 | |
| 4 | 13,800,000 | 13,950,000 | 185 | 772 | -0.116459535 | |
| 4 | 13,875,000 | 14,025,000 | 186 | 690 | 0.34696357 | ENSBTAG00000020685 |
| 4 | 13,950,000 | 14,100,000 | 187 | 996 | 0.818773836 | ENSBTAG00000020685 |
| 4 | 14,025,000 | 14,175,000 | 188 | 1216 | 1.173369877 | |
| 4 | 14,100,000 | 14,250,000 | 189 | 1077 | 0.942856542 | |
| 4 | 14,175,000 | 14,325,000 | 190 | 797 | 0.952211938 | DLX5,DLX6 |
| 4 | 14,250,000 | 14,400,000 | 191 | 909 | 0.738687467 | ACN9,DLX5,DLX6 |
| 4 | 14,325,000 | 14,475,000 | 192 | 1185 | 0.626988502 | ACN9 |
| 4 | 14,400,000 | 14,550,000 | 193 | 1237 | 0.581705262 | ACN9 |
| 4 | 14,475,000 | 14,625,000 | 194 | 1287 | 0.393132752 | ENSBTAG00000020550 |
| 4 | 14,550,000 | 14,700,000 | 195 | 1407 | 0.502522983 | ENSBTAG00000020550 |
| 4 | 14,625,000 | 14,775,000 | 196 | 1597 | -0.144401761 | |
| 4 | 14,700,000 | 14,850,000 | 197 | 1315 | -0.328365587 | |
| 4 | 14,775,000 | 14,925,000 | 198 | 991 | 0.16374019 | TAC1 |
| 4 | 14,850,000 | 15,000,000 | 199 | 1341 | 0.39359864 | TAC1 |
| 4 | 14,925,000 | 15,075,000 | 200 | 1610 | 0.711700754 | ASNS,TAC1 |
| 4 | 15,000,000 | 15,150,000 | 201 | 1383 | 1.0871458 | ASNS |
| 4 | 15,075,000 | 15,225,000 | 202 | 1210 | 0.745091342 | ASNS,C1GALT1 |
| 4 | 15,150,000 | 15,300,000 | 203 | 1176 | 0.192897915 | ASNS,C1GALT1 |
| 4 | 15,225,000 | 15,375,000 | 204 | 1476 | -0.002835874 | C1GALT1,COL28A1 |
| 4 | 15,300,000 | 15,450,000 | 205 | 1673 | -0.42427152 | COL28A1 |
| 4 | 15,375,000 | 15,525,000 | 206 | 1584 | -0.311279388 | COL28A1 |
| 4 | 15,450,000 | 15,600,000 | 207 | 1473 | 0.285840939 | COL28A1,MIOS |
| 4 | 15,525,000 | 15,675,000 | 208 | 1257 | 0.291347672 | MIOS,RPA3 |
| 4 | 15,600,000 | 15,750,000 | 209 | 800 | 0.273152176 | RPA3 |
| 4 | 15,675,000 | 15,825,000 | 210 | 315 | 1.205321492 | |
| 4 | 15,750,000 | 15,900,000 | 211 | 749 | 0.677440391 | |
| 4 | 15,825,000 | 15,975,000 | 212 | 1008 | 0.460252509 | |
| 4 | 15,900,000 | 16,050,000 | 213 | 980 | 0.285524556 | |
| 4 | 15,975,000 | 16,125,000 | 214 | 1559 | -0.104015719 | |
| 4 | 16,050,000 | 16,200,000 | 215 | 1350 | -0.079491782 | |
| 4 | 16,125,000 | 16,275,000 | 216 | 932 | -1.602020829 | |
| 4 | 16,200,000 | 16,350,000 | 217 | 985 | -2.170874258 | |
| 4 | 16,275,000 | 16,425,000 | 218 | 783 | -1.025432014 | |
| 4 | 16,350,000 | 16,500,000 | 219 | 931 | -0.346726528 | |
| 4 | 16,425,000 | 16,575,000 | 220 | 1162 | 0.055388224 | |
| 4 | 16,500,000 | 16,650,000 | 221 | 1197 | -0.669557699 | |
| 4 | 16,575,000 | 16,725,000 | 222 | 1311 | -0.568422748 | |
| 4 | 16,650,000 | 16,800,000 | 223 | 1170 | 0.539534877 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------|
| 4 | 16,725,000 | 16,875,000 | 224 | 907 | 0.52173361 | |
| 4 | 16,800,000 | 16,950,000 | 225 | 1027 | 0.479839244 | |
| 4 | 16,875,000 | 17,025,000 | 226 | 1153 | 0.288908149 | |
| 4 | 16,950,000 | 17,100,000 | 227 | 924 | 0.186784894 | GLCCI1 |
| 4 | 17,025,000 | 17,175,000 | 228 | 998 | 0.47652133 | GLCCI1 |
| 4 | 17,100,000 | 17,250,000 | 229 | 1194 | 0.202352918 | GLCCI1,ICA1 |
| 4 | 17,175,000 | 17,325,000 | 230 | 1576 | -1.276717053 | ICA1 |
| 4 | 17,250,000 | 17,400,000 | 231 | 2322 | -0.736709595 | ICA1 |
| 4 | 17,325,000 | 17,475,000 | 232 | 2394 | 0.347217083 | ICA1 |
| 4 | 17,400,000 | 17,550,000 | 233 | 2133 | 0.319265463 | |
| 4 | 17,475,000 | 17,625,000 | 234 | 1724 | 0.134772437 | |
| 4 | 17,550,000 | 17,700,000 | 235 | 1337 | -0.128240263 | |
| 4 | 17,625,000 | 17,775,000 | 236 | 1417 | -0.405091146 | |
| 4 | 17,700,000 | 17,850,000 | 237 | 1484 | -0.449495275 | |
| 4 | 17,775,000 | 17,925,000 | 238 | 1334 | -2.282854356 | NXPH1 |
| 4 | 17,850,000 | 18,000,000 | 239 | 1346 | -1.827923418 | NXPH1 |
| 4 | 17,925,000 | 18,075,000 | 240 | 1504 | -0.124717903 | ENSBTAG00000046275 |
| 4 | 18,000,000 | 18,150,000 | 241 | 1657 | 0.769706947 | ENSBTAG00000046275 |
| 4 | 18,075,000 | 18,225,000 | 242 | 1761 | 0.834428448 | |
| 4 | 18,150,000 | 18,300,000 | 243 | 1573 | 0.584093918 | |
| 4 | 18,225,000 | 18,375,000 | 244 | 1521 | 0.393763706 | |
| 4 | 18,300,000 | 18,450,000 | 245 | 1382 | 0.499073464 | |
| 4 | 18,375,000 | 18,525,000 | 246 | 1202 | -0.219002009 | |
| 4 | 18,450,000 | 18,600,000 | 247 | 1767 | -0.083843264 | |
| 4 | 18,525,000 | 18,675,000 | 248 | 1812 | 0.278688142 | |
| 4 | 18,600,000 | 18,750,000 | 249 | 1551 | 0.719575652 | |
| 4 | 18,675,000 | 18,825,000 | 250 | 1214 | 0.467392667 | |
| 4 | 18,750,000 | 18,900,000 | 251 | 952 | 0.310681283 | |
| 4 | 18,825,000 | 18,975,000 | 252 | 1028 | 0.417102055 | NDUFA4,ENSBTAG00000038527 |
| 4 | 18,900,000 | 19,050,000 | 253 | 986 | 0.193776501 | NDUFA4,PHF14,ENSBTAG00000038527 |
| 4 | 18,975,000 | 19,125,000 | 254 | 914 | 0.469059922 | NDUFA4,PHF14 |
| 4 | 19,050,000 | 19,200,000 | 255 | 639 | 0.888220962 | PHF14 |
| 4 | 19,125,000 | 19,275,000 | 256 | 1012 | 1.17905715 | |
| 4 | 19,200,000 | 19,350,000 | 257 | 1113 | 0.332435379 | |
| 4 | 19,275,000 | 19,425,000 | 258 | 1242 | -0.241821907 | |
| 4 | 19,350,000 | 19,500,000 | 259 | 1347 | 0.209059963 | THSD7A |
| 4 | 19,425,000 | 19,575,000 | 260 | 957 | -1.17723172 | THSD7A |
| 4 | 19,500,000 | 19,650,000 | 261 | 913 | -0.296261899 | THSD7A |
| 4 | 19,575,000 | 19,725,000 | 262 | 862 | 0.261075799 | THSD7A |
| 4 | 19,650,000 | 19,800,000 | 263 | 813 | -0.521969079 | THSD7A |
| 4 | 19,725,000 | 19,875,000 | 264 | 1017 | -0.461797773 | THSD7A |
| 4 | 19,800,000 | 19,950,000 | 265 | 1309 | -0.108531276 | TMEM106B |
| 4 | 19,875,000 | 20,025,000 | 266 | 1549 | 0.047439754 | TMEM106B |
| 4 | 19,950,000 | 20,100,000 | 267 | 1555 | 0.038445317 | |
| 4 | 20,025,000 | 20,175,000 | 268 | 1646 | 0.864129299 | SCIN |
| 4 | 20,100,000 | 20,250,000 | 269 | 1561 | 0.950267739 | SCIN |
| 4 | 20,175,000 | 20,325,000 | 270 | 1362 | -0.110463787 | ARL4A,SCIN |
| 4 | 20,250,000 | 20,400,000 | 271 | 1506 | -0.129310236 | ARL4A |
| 4 | 20,325,000 | 20,475,000 | 272 | 1581 | 0.275357394 | |
| 4 | 20,400,000 | 20,550,000 | 273 | 1568 | 0.573598207 | |
| 4 | 20,475,000 | 20,625,000 | 274 | 1564 | 0.891816477 | |
| 4 | 20,550,000 | 20,700,000 | 275 | 1582 | 0.706772813 | |
| 4 | 20,625,000 | 20,775,000 | 276 | 1538 | -0.091438524 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 4 | 20,700,000 | 20,850,000 | 277 | 1477 | -0.225067726 | |
| 4 | 20,775,000 | 20,925,000 | 278 | 1409 | -2.266386875 | |
| 4 | 20,850,000 | 21,000,000 | 279 | 1482 | -1.472957123 | |
| 4 | 20,925,000 | 21,075,000 | 280 | 1584 | 0.892282953 | |
| 4 | 21,000,000 | 21,150,000 | 281 | 1666 | 0.600335294 | |
| 4 | 21,075,000 | 21,225,000 | 282 | 1646 | -0.035687372 | |
| 4 | 21,150,000 | 21,300,000 | 283 | 1688 | 0.196938906 | |
| 4 | 21,225,000 | 21,375,000 | 284 | 1832 | 0.045560028 | |
| 4 | 21,300,000 | 21,450,000 | 285 | 1496 | 0.044325463 | |
| 4 | 21,375,000 | 21,525,000 | 286 | 1141 | 0.946817798 | |
| 4 | 21,450,000 | 21,600,000 | 287 | 1380 | 0.878382085 | |
| 4 | 21,525,000 | 21,675,000 | 288 | 1405 | 0.700276228 | |
| 4 | 21,600,000 | 21,750,000 | 289 | 1249 | 0.24187192 | |
| 4 | 21,675,000 | 21,825,000 | 290 | 1407 | 0.865649083 | |
| 4 | 21,750,000 | 21,900,000 | 291 | 1332 | 1.353390877 | |
| 4 | 21,825,000 | 21,975,000 | 292 | 1129 | 1.123244613 | |
| 4 | 21,900,000 | 22,050,000 | 293 | 1106 | 0.7375249 | ETV1 |
| 4 | 21,975,000 | 22,125,000 | 294 | 1125 | 0.465040696 | ETV1 |
| 4 | 22,050,000 | 22,200,000 | 295 | 1092 | 0.07751903 | ETV1 |
| 4 | 22,125,000 | 22,275,000 | 296 | 1123 | 0.137308934 | ETV1 |
| 4 | 22,200,000 | 22,350,000 | 297 | 989 | 0.008950671 | DGKB |
| 4 | 22,275,000 | 22,425,000 | 298 | 1031 | 0.955071578 | DGKB |
| 4 | 22,350,000 | 22,500,000 | 299 | 1127 | 1.224180841 | DGKB |
| 4 | 22,425,000 | 22,575,000 | 300 | 905 | 0.866968813 | DGKB |
| 4 | 22,500,000 | 22,650,000 | 301 | 1075 | 0.459094342 | DGKB |
| 4 | 22,575,000 | 22,725,000 | 302 | 1007 | 0.251286268 | DGKB |
| 4 | 22,650,000 | 22,800,000 | 303 | 990 | -0.393797893 | DGKB |
| 4 | 22,725,000 | 22,875,000 | 304 | 1612 | 0.437353935 | DGKB |
| 4 | 22,800,000 | 22,950,000 | 305 | 1700 | 0.294441305 | DGKB |
| 4 | 22,875,000 | 23,025,000 | 306 | 1397 | -0.363796494 | DGKB |
| 4 | 22,950,000 | 23,100,000 | 307 | 1400 | 0.548724498 | DGKB |
| 4 | 23,025,000 | 23,175,000 | 308 | 1167 | 0.23969931 | DGKB |
| 4 | 23,100,000 | 23,250,000 | 309 | 1027 | 0.524810696 | DGKB |
| 4 | 23,175,000 | 23,325,000 | 310 | 1212 | 0.810472535 | |
| 4 | 23,250,000 | 23,400,000 | 311 | 1370 | 0.47235133 | |
| 4 | 23,325,000 | 23,475,000 | 312 | 1409 | 0.776216484 | |
| 4 | 23,400,000 | 23,550,000 | 313 | 1445 | 0.945306589 | AGMO |
| 4 | 23,475,000 | 23,625,000 | 314 | 1309 | 0.457695929 | AGMO |
| 4 | 23,550,000 | 23,700,000 | 315 | 817 | 0.1181856 | AGMO |
| 4 | 23,625,000 | 23,775,000 | 316 | 883 | 0.502615036 | AGMO |
| 4 | 23,700,000 | 23,850,000 | 317 | 1144 | 0.76258608 | AGMO |
| 4 | 23,775,000 | 23,925,000 | 318 | 1150 | 0.200861661 | AGMO |
| 4 | 23,850,000 | 24,000,000 | 319 | 1304 | 0.422213924 | AGMO,MEOX2 |
| 4 | 23,925,000 | 24,075,000 | 320 | 1158 | 1.194933515 | MEOX2 |
| 4 | 24,000,000 | 24,150,000 | 321 | 777 | 0.857159031 | MEOX2 |
| 4 | 24,075,000 | 24,225,000 | 322 | 556 | 0.567413252 | ENSBTAG00000010168 |
| 4 | 24,150,000 | 24,300,000 | 323 | 631 | 0.18206185 | ENSBTAG00000010168 |
| 4 | 24,225,000 | 24,375,000 | 324 | 825 | 0.121883735 | |
| 4 | 24,300,000 | 24,450,000 | 325 | 730 | 0.400689353 | |
| 4 | 24,375,000 | 24,525,000 | 326 | 816 | 0.350332616 | ISPD |
| 4 | 24,450,000 | 24,600,000 | 327 | 1063 | 0.102409843 | ISPD |
| 4 | 24,525,000 | 24,675,000 | 328 | 1008 | 0.037967939 | ISPD |
| 4 | 24,600,000 | 24,750,000 | 329 | 729 | 0.135779046 | ISPD |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 4 | 24,675,000 | 24,825,000 | 330 | 793 | 0.046647916 | ISPD |
| 4 | 24,750,000 | 24,900,000 | 331 | 967 | 0.135377537 | ISPD |
| 4 | 24,825,000 | 24,975,000 | 332 | 846 | 0.418234247 | ISPD,SOSTDC1 |
| 4 | 24,900,000 | 25,050,000 | 333 | 697 | 0.355223932 | LRR72,SOSTDC1,ENSBTAG00000045648 |
| 4 | 24,975,000 | 25,125,000 | 334 | 412 | 0.088460345 | ANKMY2,BZW2,LRR72,ENSBTAG00000045648 |
| 4 | 25,050,000 | 25,200,000 | 335 | 296 | 0.009143601 | ANKMY2,BZW2,LRR72,ENSBTAG00000045648 |
| 4 | 25,125,000 | 25,275,000 | 336 | 546 | -0.589400665 | AGR2,BZW2,TSPAN13 |
| 4 | 25,200,000 | 25,350,000 | 337 | 1037 | 0.487188519 | AGR2,AGR3,TSPAN13 |
| 4 | 25,275,000 | 25,425,000 | 338 | 1413 | 1.058261684 | AGR3 |
| 4 | 25,350,000 | 25,500,000 | 339 | 1175 | 0.477867157 | |
| 4 | 25,425,000 | 25,575,000 | 340 | 1065 | -0.352346621 | |
| 4 | 25,500,000 | 25,650,000 | 341 | 982 | -0.287080241 | |
| 4 | 25,575,000 | 25,725,000 | 342 | 707 | 0.093790453 | |
| 4 | 25,650,000 | 25,800,000 | 343 | 669 | 0.12478124 | AHR |
| 4 | 25,725,000 | 25,875,000 | 344 | 773 | -0.333613774 | AHR |
| 4 | 25,800,000 | 25,950,000 | 345 | 845 | 0.416536581 | AHR |
| 4 | 25,875,000 | 26,025,000 | 346 | 838 | 0.983303877 | |
| 4 | 25,950,000 | 26,100,000 | 347 | 702 | 0.466448341 | |
| 4 | 26,025,000 | 26,175,000 | 348 | 490 | 0.446510781 | |
| 4 | 26,100,000 | 26,250,000 | 349 | 706 | 0.887186111 | |
| 4 | 26,175,000 | 26,325,000 | 350 | 833 | 1.061983935 | |
| 4 | 26,250,000 | 26,400,000 | 351 | 529 | 1.033961697 | SNX13 |
| 4 | 26,325,000 | 26,475,000 | 352 | 579 | 0.854838577 | SNX13 |
| 4 | 26,400,000 | 26,550,000 | 353 | 1102 | 0.672193156 | PRPS1L1,SNX13 |
| 4 | 26,475,000 | 26,625,000 | 354 | 1037 | 0.586894329 | PRPS1L1 |
| 4 | 26,550,000 | 26,700,000 | 355 | 647 | 0.556581765 | |
| 4 | 26,625,000 | 26,775,000 | 356 | 575 | 0.106989178 | |
| 4 | 26,700,000 | 26,850,000 | 357 | 603 | -1.350960854 | |
| 4 | 26,775,000 | 26,925,000 | 358 | 694 | -1.411293258 | |
| 4 | 26,850,000 | 27,000,000 | 359 | 650 | -0.690998473 | |
| 4 | 26,925,000 | 27,075,000 | 360 | 882 | 0.139394135 | |
| 4 | 27,000,000 | 27,150,000 | 361 | 1078 | 0.428006902 | |
| 4 | 27,075,000 | 27,225,000 | 362 | 752 | 0.639009403 | HDAC9 |
| 4 | 27,150,000 | 27,300,000 | 363 | 591 | -0.643404421 | HDAC9 |
| 4 | 27,225,000 | 27,375,000 | 364 | 798 | -1.178478984 | HDAC9 |
| 4 | 27,300,000 | 27,450,000 | 365 | 874 | -0.426013468 | HDAC9 |
| 4 | 27,375,000 | 27,525,000 | 366 | 696 | 0.237373515 | HDAC9 |
| 4 | 27,450,000 | 27,600,000 | 367 | 642 | -0.469795293 | HDAC9 |
| 4 | 27,525,000 | 27,675,000 | 368 | 526 | 0.126686251 | |
| 4 | 27,600,000 | 27,750,000 | 369 | 290 | 0.392136435 | |
| 4 | 27,675,000 | 27,825,000 | 370 | 310 | -1.705032814 | |
| 4 | 27,750,000 | 27,900,000 | 371 | 463 | -0.593957612 | FERD3L,TWIST1 |
| 4 | 27,825,000 | 27,975,000 | 372 | 695 | 0.24956111 | FERD3L,TWIST1 |
| 4 | 27,900,000 | 28,050,000 | 373 | 997 | 0.306347608 | |
| 4 | 27,975,000 | 28,125,000 | 374 | 717 | 0.75332093 | |
| 4 | 28,050,000 | 28,200,000 | 375 | 673 | 1.054541836 | |
| 4 | 28,125,000 | 28,275,000 | 376 | 989 | 1.092102716 | |
| 4 | 28,200,000 | 28,350,000 | 377 | 1014 | 0.917544615 | |
| 4 | 28,275,000 | 28,425,000 | 378 | 1278 | 0.033725484 | |
| 4 | 28,350,000 | 28,500,000 | 379 | 1376 | -0.464681434 | TMEM196,TWISTNB |
| 4 | 28,425,000 | 28,575,000 | 380 | 1209 | 0.449972811 | TMEM196,TWISTNB |
| 4 | 28,500,000 | 28,650,000 | 381 | 1165 | 0.839668722 | |
| 4 | 28,575,000 | 28,725,000 | 382 | 1039 | 0.73213077 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------------|
| 4 | 28,650,000 | 28,800,000 | 383 | 1183 | 0.882346321 | |
| 4 | 28,725,000 | 28,875,000 | 384 | 1321 | 0.551883436 | MACC1 |
| 4 | 28,800,000 | 28,950,000 | 385 | 979 | -0.057391045 | MACC1 |
| 4 | 28,875,000 | 29,025,000 | 386 | 495 | 0.392255408 | |
| 4 | 28,950,000 | 29,100,000 | 387 | 686 | -2.831957583 | |
| 4 | 29,025,000 | 29,175,000 | 388 | 826 | -3.166262163 | ITGB8 |
| 4 | 29,100,000 | 29,250,000 | 389 | 589 | -1.64639472 | ITGB8 |
| 4 | 29,175,000 | 29,325,000 | 390 | 625 | -0.990746684 | ITGB8 |
| 4 | 29,250,000 | 29,400,000 | 391 | 553 | 0.001718908 | |
| 4 | 29,325,000 | 29,475,000 | 392 | 548 | 0.497321331 | ABCB5 |
| 4 | 29,400,000 | 29,550,000 | 393 | 802 | 0.063537409 | ABCB5 |
| 4 | 29,475,000 | 29,625,000 | 394 | 881 | 0.511090335 | ABCB5,SP8 |
| 4 | 29,550,000 | 29,700,000 | 395 | 589 | 1.199682958 | ABCB5,SP8 |
| 4 | 29,625,000 | 29,775,000 | 396 | 429 | 0.589311927 | |
| 4 | 29,700,000 | 29,850,000 | 397 | 507 | -0.456377384 | |
| 4 | 29,775,000 | 29,925,000 | 398 | 816 | 0.486887863 | |
| 4 | 29,850,000 | 30,000,000 | 399 | 841 | 0.807747735 | |
| 4 | 29,925,000 | 30,075,000 | 400 | 817 | -0.058474864 | |
| 4 | 30,000,000 | 30,150,000 | 401 | 1055 | 0.616588413 | ENSBTAG00000045673 |
| 4 | 30,075,000 | 30,225,000 | 402 | 1349 | 1.15150409 | ENSBTAG00000045673 |
| 4 | 30,150,000 | 30,300,000 | 403 | 1198 | 0.99433407 | |
| 4 | 30,225,000 | 30,375,000 | 404 | 768 | 0.332575821 | SP4 |
| 4 | 30,300,000 | 30,450,000 | 405 | 696 | 0.058800774 | DNAH11,SP4 |
| 4 | 30,375,000 | 30,525,000 | 406 | 770 | -0.640827739 | DNAH11,SP4 |
| 4 | 30,450,000 | 30,600,000 | 407 | 905 | -0.358093238 | DNAH11 |
| 4 | 30,525,000 | 30,675,000 | 408 | 1238 | 0.688950885 | DNAH11 |
| 4 | 30,600,000 | 30,750,000 | 409 | 1524 | 0.25854555 | DNAH11 |
| 4 | 30,675,000 | 30,825,000 | 410 | 1664 | 0.606348258 | CDCA7L,DNAH11 |
| 4 | 30,750,000 | 30,900,000 | 411 | 1678 | 1.003054873 | CDCA7L,DNAH11 |
| 4 | 30,825,000 | 30,975,000 | 412 | 1648 | 0.393752053 | CDCA7L |
| 4 | 30,900,000 | 31,050,000 | 413 | 1377 | 0.221478879 | RAPGEF5 |
| 4 | 30,975,000 | 31,125,000 | 414 | 1026 | 0.48032066 | RAPGEF5 |
| 4 | 31,050,000 | 31,200,000 | 415 | 885 | -0.337209009 | RAPGEF5 |
| 4 | 31,125,000 | 31,275,000 | 416 | 966 | -1.164216834 | RAPGEF5 |
| 4 | 31,200,000 | 31,350,000 | 417 | 980 | -0.351847953 | RAPGEF5 |
| 4 | 31,275,000 | 31,425,000 | 418 | 971 | 0.258204801 | |
| 4 | 31,350,000 | 31,500,000 | 419 | 743 | -0.156490906 | |
| 4 | 31,425,000 | 31,575,000 | 420 | 423 | 0.133613743 | |
| 4 | 31,500,000 | 31,650,000 | 421 | 491 | -0.055815816 | IL6 |
| 4 | 31,575,000 | 31,725,000 | 422 | 468 | -0.811919584 | IL6,ENSBTAG00000033806 |
| 4 | 31,650,000 | 31,800,000 | 423 | 420 | -1.88417849 | FAM126A,ENSBTAG00000033806 |
| 4 | 31,725,000 | 31,875,000 | 424 | 844 | -4.390110774 | FAM126A |
| 4 | 31,800,000 | 31,950,000 | 425 | 1066 | -3.958575618 | KLHL7 |
| 4 | 31,875,000 | 32,025,000 | 426 | 1053 | -1.522185989 | GPNMB,KLHL7,NUPL2 |
| 4 | 31,950,000 | 32,100,000 | 427 | 1374 | -0.87422387 | GPNMB,IGF2BP3,KLHL7,MALSU1,NUPL2 |
| 4 | 32,025,000 | 32,175,000 | 428 | 1201 | -0.73037522 | GPNMB,IGF2BP3,MALSU1 |
| 4 | 32,100,000 | 32,250,000 | 429 | 783 | -0.882834888 | IGF2BP3 |
| 4 | 32,175,000 | 32,325,000 | 430 | 846 | -0.169798157 | IGF2BP3,TRA2A |
| 4 | 32,250,000 | 32,400,000 | 431 | 1313 | 0.091676983 | CCDC126,TRA2A |
| 4 | 32,325,000 | 32,475,000 | 432 | 1460 | 0.469805914 | CCDC126,DBF4 |
| 4 | 32,400,000 | 32,550,000 | 433 | 1501 | 0.778753668 | DBF4 |
| 4 | 32,475,000 | 32,625,000 | 434 | 1614 | 0.481459966 | ENSBTAG00000015666 |
| 4 | 32,550,000 | 32,700,000 | 435 | 1579 | 0.362539238 | RUNDC3B,ENSBTAG00000015666 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 4 | 32,625,000 | 32,775,000 | 436 | 1583 | 0.353083835 | RUNDC3B,ENSBTAG00000015666 |
| 4 | 32,700,000 | 32,850,000 | 437 | 1477 | 0.874536798 | RUNDC3B |
| 4 | 32,775,000 | 32,925,000 | 438 | 1414 | 0.946368369 | RUNDC3B,SLC25A40 |
| 4 | 32,850,000 | 33,000,000 | 439 | 1516 | 0.867841653 | RUNDC3B,SLC25A40 |
| 4 | 32,925,000 | 33,075,000 | 440 | 1583 | 0.700566562 | ABCB1 |
| 4 | 33,000,000 | 33,150,000 | 441 | 1370 | 0.791864987 | ABCB1,ABCB4 |
| 4 | 33,075,000 | 33,225,000 | 442 | 888 | 1.156430099 | ABCB1,ABCB4,CROT |
| 4 | 33,150,000 | 33,300,000 | 443 | 895 | 0.302084661 | ABCB4,CROT |
| 4 | 33,225,000 | 33,375,000 | 444 | 1154 | 0.466612704 | CROT,DMTF1,TMEM243 |
| 4 | 33,300,000 | 33,450,000 | 445 | 988 | 1.077957531 | DMTF1,TMEM243 |
| 4 | 33,375,000 | 33,525,000 | 446 | 1355 | 1.296794682 | DMTF1,KIAA1324L |
| 4 | 33,450,000 | 33,600,000 | 447 | 1537 | 0.689375052 | KIAA1324L |
| 4 | 33,525,000 | 33,675,000 | 448 | 1289 | -0.026552755 | KIAA1324L |
| 4 | 33,600,000 | 33,750,000 | 449 | 1240 | 0.686669987 | KIAA1324L |
| 4 | 33,675,000 | 33,825,000 | 450 | 1285 | -0.82550543 | GRM3,KIAA1324L |
| 4 | 33,750,000 | 33,900,000 | 451 | 1420 | -0.863139355 | GRM3,KIAA1324L |
| 4 | 33,825,000 | 33,975,000 | 452 | 1385 | 0.783697066 | GRM3 |
| 4 | 33,900,000 | 34,050,000 | 453 | 1242 | 1.1113165 | GRM3 |
| 4 | 33,975,000 | 34,125,000 | 454 | 1065 | 0.652280481 | GRM3 |
| 4 | 34,050,000 | 34,200,000 | 455 | 1191 | 0.313471226 | |
| 4 | 34,125,000 | 34,275,000 | 456 | 1213 | 0.273389176 | |
| 4 | 34,200,000 | 34,350,000 | 457 | 1210 | -0.20752537 | |
| 4 | 34,275,000 | 34,425,000 | 458 | 1373 | 0.592406536 | |
| 4 | 34,350,000 | 34,500,000 | 459 | 1181 | 1.090657437 | |
| 4 | 34,425,000 | 34,575,000 | 460 | 993 | 0.253959335 | |
| 4 | 34,500,000 | 34,650,000 | 461 | 1244 | 0.427874246 | |
| 4 | 34,575,000 | 34,725,000 | 462 | 1581 | 0.887296077 | |
| 4 | 34,650,000 | 34,800,000 | 463 | 1542 | 0.538620915 | |
| 4 | 34,725,000 | 34,875,000 | 464 | 1681 | 0.855323214 | |
| 4 | 34,800,000 | 34,950,000 | 465 | 2021 | 1.081862436 | |
| 4 | 34,875,000 | 35,025,000 | 466 | 1838 | 1.026998465 | |
| 4 | 34,950,000 | 35,100,000 | 467 | 1589 | 0.894295489 | |
| 4 | 35,025,000 | 35,175,000 | 468 | 1297 | 1.15195251 | |
| 4 | 35,100,000 | 35,250,000 | 469 | 905 | 1.300408224 | |
| 4 | 35,175,000 | 35,325,000 | 470 | 727 | 0.905665822 | |
| 4 | 35,250,000 | 35,400,000 | 471 | 864 | 0.627062574 | |
| 4 | 35,325,000 | 35,475,000 | 472 | 1025 | 0.470249162 | |
| 4 | 35,400,000 | 35,550,000 | 473 | 1073 | 0.147336197 | |
| 4 | 35,475,000 | 35,625,000 | 474 | 1167 | -0.707662451 | SEMA3D |
| 4 | 35,550,000 | 35,700,000 | 475 | 1125 | -0.57321438 | SEMA3D |
| 4 | 35,625,000 | 35,775,000 | 476 | 1012 | 0.318813393 | SEMA3D |
| 4 | 35,700,000 | 35,850,000 | 477 | 926 | 0.531938221 | SEMA3D |
| 4 | 35,775,000 | 35,925,000 | 478 | 1055 | 0.330590939 | SEMA3D |
| 4 | 35,850,000 | 36,000,000 | 479 | 1273 | 0.349123535 | |
| 4 | 35,925,000 | 36,075,000 | 480 | 1303 | 0.49562809 | |
| 4 | 36,000,000 | 36,150,000 | 481 | 965 | 0.487195226 | |
| 4 | 36,075,000 | 36,225,000 | 482 | 995 | 0.788877561 | |
| 4 | 36,150,000 | 36,300,000 | 483 | 1285 | 0.855643189 | |
| 4 | 36,225,000 | 36,375,000 | 484 | 1140 | 0.642625849 | |
| 4 | 36,300,000 | 36,450,000 | 485 | 1031 | -0.088843211 | |
| 4 | 36,375,000 | 36,525,000 | 486 | 1308 | 0.4147075 | |
| 4 | 36,450,000 | 36,600,000 | 487 | 1329 | 0.669121561 | |
| 4 | 36,525,000 | 36,675,000 | 488 | 1023 | 0.380626623 | SEMA3A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 36,600,000 | 36,750,000 | 489 | 1253 | 0.683192293 | SEMA3A |
| 4 | 36,675,000 | 36,825,000 | 490 | 1362 | 0.628111525 | SEMA3A |
| 4 | 36,750,000 | 36,900,000 | 491 | 1225 | 0.801192466 | SEMA3A |
| 4 | 36,825,000 | 36,975,000 | 492 | 1407 | 0.863811251 | |
| 4 | 36,900,000 | 37,050,000 | 493 | 1523 | 0.623943527 | |
| 4 | 36,975,000 | 37,125,000 | 494 | 1353 | 0.652432306 | |
| 4 | 37,050,000 | 37,200,000 | 495 | 1323 | -0.560137002 | |
| 4 | 37,125,000 | 37,275,000 | 496 | 1385 | -1.069889303 | |
| 4 | 37,200,000 | 37,350,000 | 497 | 1288 | -0.915475812 | SEMA3E |
| 4 | 37,275,000 | 37,425,000 | 498 | 1078 | -0.953355321 | SEMA3E |
| 4 | 37,350,000 | 37,500,000 | 499 | 1172 | 0.159206781 | SEMA3E |
| 4 | 37,425,000 | 37,575,000 | 500 | 1402 | -0.723673244 | |
| 4 | 37,500,000 | 37,650,000 | 501 | 1430 | -1.280187869 | PCLO |
| 4 | 37,575,000 | 37,725,000 | 502 | 1338 | -0.240320895 | PCLO |
| 4 | 37,650,000 | 37,800,000 | 503 | 1404 | 0.783094044 | PCLO |
| 4 | 37,725,000 | 37,875,000 | 504 | 1506 | 0.973987935 | PCLO |
| 4 | 37,800,000 | 37,950,000 | 505 | 1494 | 0.804158076 | PCLO |
| 4 | 37,875,000 | 38,025,000 | 506 | 1403 | 0.829156935 | PCLO |
| 4 | 37,950,000 | 38,100,000 | 507 | 1384 | 0.643650186 | PCLO |
| 4 | 38,025,000 | 38,175,000 | 508 | 1436 | -0.118597678 | |
| 4 | 38,100,000 | 38,250,000 | 509 | 1273 | 0.090762566 | |
| 4 | 38,175,000 | 38,325,000 | 510 | 1186 | -0.688831224 | |
| 4 | 38,250,000 | 38,400,000 | 511 | 1125 | -1.154790548 | |
| 4 | 38,325,000 | 38,475,000 | 512 | 1197 | 1.219115471 | |
| 4 | 38,400,000 | 38,550,000 | 513 | 1245 | 0.992505624 | |
| 4 | 38,475,000 | 38,625,000 | 514 | 1329 | 0.507821898 | |
| 4 | 38,550,000 | 38,700,000 | 515 | 1224 | 0.243003281 | |
| 4 | 38,625,000 | 38,775,000 | 516 | 1264 | 0.446477477 | CACNA2D1 |
| 4 | 38,700,000 | 38,850,000 | 517 | 1146 | 0.514521977 | CACNA2D1 |
| 4 | 38,775,000 | 38,925,000 | 518 | 880 | 0.223182703 | CACNA2D1 |
| 4 | 38,850,000 | 39,000,000 | 519 | 1393 | 0.645755021 | CACNA2D1 |
| 4 | 38,925,000 | 39,075,000 | 520 | 1308 | 0.636987248 | |
| 4 | 39,000,000 | 39,150,000 | 521 | 682 | 0.43516487 | HGF |
| 4 | 39,075,000 | 39,225,000 | 522 | 632 | 0.726763737 | HGF |
| 4 | 39,150,000 | 39,300,000 | 523 | 791 | 0.976663115 | HGF |
| 4 | 39,225,000 | 39,375,000 | 524 | 786 | 0.785070766 | |
| 4 | 39,300,000 | 39,450,000 | 525 | 884 | 0.582575933 | |
| 4 | 39,375,000 | 39,525,000 | 526 | 893 | 0.40288879 | |
| 4 | 39,450,000 | 39,600,000 | 527 | 1220 | 0.363427374 | ENSBTAG00000033359 |
| 4 | 39,525,000 | 39,675,000 | 528 | 1532 | 0.68744478 | ENSBTAG00000033359 |
| 4 | 39,600,000 | 39,750,000 | 529 | 1148 | 0.668163614 | |
| 4 | 39,675,000 | 39,825,000 | 530 | 910 | 0.356394715 | |
| 4 | 39,750,000 | 39,900,000 | 531 | 1030 | 0.614056522 | |
| 4 | 39,825,000 | 39,975,000 | 532 | 1075 | 0.576602358 | |
| 4 | 39,900,000 | 40,050,000 | 533 | 1402 | -0.124516876 | |
| 4 | 39,975,000 | 40,125,000 | 534 | 1782 | 0.256604174 | |
| 4 | 40,050,000 | 40,200,000 | 535 | 1358 | 0.447386417 | SEMA3C |
| 4 | 40,125,000 | 40,275,000 | 536 | 745 | 0.110306474 | SEMA3C |
| 4 | 40,200,000 | 40,350,000 | 537 | 612 | 0.366783591 | SEMA3C |
| 4 | 40,275,000 | 40,425,000 | 538 | 548 | 0.184012164 | SEMA3C |
| 4 | 40,350,000 | 40,500,000 | 539 | 955 | 0.443783507 | ENSBTAG00000014220,ENSBTAG00000047646 |
| 4 | 40,425,000 | 40,575,000 | 540 | 1142 | 0.633859604 | ENSBTAG00000014220,ENSBTAG00000046905,ENSBTAG00000047646 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 40,500,000 | 40,650,000 | 541 | 878 | 0.834685305 | CD36,ENSBTAG00000014220,ENSBTAG00000046905 |
| 4 | 40,575,000 | 40,725,000 | 542 | 1035 | 0.453456409 | CD36 |
| 4 | 40,650,000 | 40,800,000 | 543 | 1168 | 0.298512899 | GNAT3 |
| 4 | 40,725,000 | 40,875,000 | 544 | 1343 | 0.622847572 | GNAT3 |
| 4 | 40,800,000 | 40,950,000 | 545 | 1317 | 0.732937314 | GNAT3 |
| 4 | 40,875,000 | 41,025,000 | 546 | 863 | -0.095437757 | |
| 4 | 40,950,000 | 41,100,000 | 547 | 580 | -0.772797813 | ENSBTAG00000047294 |
| 4 | 41,025,000 | 41,175,000 | 548 | 869 | -0.439736962 | GNAI1,ENSBTAG00000047294 |
| 4 | 41,100,000 | 41,250,000 | 549 | 1112 | 0.329809689 | GNAI1 |
| 4 | 41,175,000 | 41,325,000 | 550 | 977 | 0.834715238 | GNAI1 |
| 4 | 41,250,000 | 41,400,000 | 551 | 1059 | -1.353931753 | GNAI1 |
| 4 | 41,325,000 | 41,475,000 | 552 | 1082 | -1.845767911 | |
| 4 | 41,400,000 | 41,550,000 | 553 | 755 | -0.078980803 | |
| 4 | 41,475,000 | 41,625,000 | 554 | 754 | 0.112540337 | |
| 4 | 41,550,000 | 41,700,000 | 555 | 724 | -0.144219653 | |
| 4 | 41,625,000 | 41,775,000 | 556 | 442 | -0.903712389 | |
| 4 | 41,700,000 | 41,850,000 | 557 | 596 | -0.327603569 | |
| 4 | 41,775,000 | 41,925,000 | 558 | 871 | 0.694091389 | |
| 4 | 41,850,000 | 42,000,000 | 559 | 1350 | -0.900832841 | |
| 4 | 41,925,000 | 42,075,000 | 560 | 1460 | -1.618993653 | |
| 4 | 42,000,000 | 42,150,000 | 561 | 850 | -0.211147391 | |
| 4 | 42,075,000 | 42,225,000 | 562 | 566 | 0.69626622 | |
| 4 | 42,150,000 | 42,300,000 | 563 | 553 | 0.549805838 | |
| 4 | 42,225,000 | 42,375,000 | 564 | 647 | -0.69984067 | |
| 4 | 42,300,000 | 42,450,000 | 565 | 781 | -0.556323416 | |
| 4 | 42,375,000 | 42,525,000 | 566 | 683 | -0.397605166 | |
| 4 | 42,450,000 | 42,600,000 | 567 | 592 | -0.0457471 | |
| 4 | 42,525,000 | 42,675,000 | 568 | 740 | 0.987860857 | |
| 4 | 42,600,000 | 42,750,000 | 569 | 693 | 1.076970834 | |
| 4 | 42,675,000 | 42,825,000 | 570 | 801 | 0.701583023 | |
| 4 | 42,750,000 | 42,900,000 | 571 | 1072 | 0.646164565 | |
| 4 | 42,825,000 | 42,975,000 | 572 | 1207 | 0.663009964 | |
| 4 | 42,900,000 | 43,050,000 | 573 | 1150 | 0.801028573 | |
| 4 | 42,975,000 | 43,125,000 | 574 | 1108 | 0.594238037 | |
| 4 | 43,050,000 | 43,200,000 | 575 | 1207 | 0.344496223 | |
| 4 | 43,125,000 | 43,275,000 | 576 | 842 | 0.312866737 | |
| 4 | 43,200,000 | 43,350,000 | 577 | 833 | -0.098637382 | |
| 4 | 43,275,000 | 43,425,000 | 578 | 1169 | 0.526585337 | ENSBTAG00000022498 |
| 4 | 43,350,000 | 43,500,000 | 579 | 1213 | 1.114073361 | ENSBTAG00000022498 |
| 4 | 43,425,000 | 43,575,000 | 580 | 857 | 1.027832473 | PHTF2 |
| 4 | 43,500,000 | 43,650,000 | 581 | 428 | 0.002646723 | PHTF2 |
| 4 | 43,575,000 | 43,725,000 | 582 | 429 | -0.397514868 | PHTF2,RSBN1L,TMEM60 |
| 4 | 43,650,000 | 43,800,000 | 583 | 463 | -0.746194829 | RSBN1L,TMEM60 |
| 4 | 43,725,000 | 43,875,000 | 584 | 367 | -0.560192138 | PTPN12,RSBN1L |
| 4 | 43,800,000 | 43,950,000 | 585 | 364 | 0.050864968 | PTPN12 |
| 4 | 43,875,000 | 44,025,000 | 586 | 594 | 0.228402362 | PTPN12 |
| 4 | 43,950,000 | 44,100,000 | 587 | 580 | 0.317892964 | PION |
| 4 | 44,025,000 | 44,175,000 | 588 | 618 | 0.60942002 | CCDC146,PION |
| 4 | 44,100,000 | 44,250,000 | 589 | 1157 | 0.559224954 | CCDC146,FGL2,PION |
| 4 | 44,175,000 | 44,325,000 | 590 | 1269 | 0.050572165 | CCDC146,FAM185A,FGL2 |
| 4 | 44,250,000 | 44,400,000 | 591 | 797 | -0.217642759 | FAM185A,FBXL13 |
| 4 | 44,325,000 | 44,475,000 | 592 | 854 | -1.326378955 | FAM185A,FBXL13 |
| 4 | 44,400,000 | 44,550,000 | 593 | 1245 | -0.698042805 | FBXL13,LRRC17 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 4 | 44,475,000 | 44,625,000 | 594 | 1430 | 0.304422276 | ARMC10,FBXL13,LRRC17 |
| 4 | 44,550,000 | 44,700,000 | 595 | 1376 | 0.083817281 | ARMC10,FBXL13,NAPEPLD |
| 4 | 44,625,000 | 44,775,000 | 596 | 1366 | 0.404181281 | ARMC10,DNAJC2,NAPEPLD,PMPCB |
| 4 | 44,700,000 | 44,850,000 | 597 | 1381 | 0.522731498 | DNAJC2,NAPEPLD,PMPCB,PSMC2,SLC26A5 |
| 4 | 44,775,000 | 44,925,000 | 598 | 1383 | -0.481121045 | DNAJC2,PSMC2,RELN,SLC26A5 |
| 4 | 44,850,000 | 45,000,000 | 599 | 1183 | -1.230301121 | RELN,SLC26A5 |
| 4 | 44,925,000 | 45,075,000 | 600 | 833 | -1.16725329 | RELN |
| 4 | 45,000,000 | 45,150,000 | 601 | 739 | -0.20729972 | RELN |
| 4 | 45,075,000 | 45,225,000 | 602 | 587 | 0.296533943 | RELN |
| 4 | 45,150,000 | 45,300,000 | 603 | 504 | 0.100301524 | RELN |
| 4 | 45,225,000 | 45,375,000 | 604 | 748 | 0.219245206 | RELN |
| 4 | 45,300,000 | 45,450,000 | 605 | 1059 | 0.000731644 | |
| 4 | 45,375,000 | 45,525,000 | 606 | 853 | -0.225286977 | ENSBTAG00000046817 |
| 4 | 45,450,000 | 45,600,000 | 607 | 1037 | 0.259988899 | ORC5L,ENSBTAG00000046817 |
| 4 | 45,525,000 | 45,675,000 | 608 | 1388 | 0.336595258 | ORC5L |
| 4 | 45,600,000 | 45,750,000 | 609 | 1065 | 0.055422147 | ORC5L |
| 4 | 45,675,000 | 45,825,000 | 610 | 799 | 0.015739435 | LHFPL3,ORC5L |
| 4 | 45,750,000 | 45,900,000 | 611 | 715 | 0.122050508 | LHFPL3 |
| 4 | 45,825,000 | 45,975,000 | 612 | 977 | 0.576662614 | LHFPL3 |
| 4 | 45,900,000 | 46,050,000 | 613 | 1302 | 0.68535361 | LHFPL3 |
| 4 | 45,975,000 | 46,125,000 | 614 | 1225 | 0.475325972 | LHFPL3 |
| 4 | 46,050,000 | 46,200,000 | 615 | 1071 | -1.927824792 | LHFPL3 |
| 4 | 46,125,000 | 46,275,000 | 616 | 1070 | -2.978495505 | LHFPL3 |
| 4 | 46,200,000 | 46,350,000 | 617 | 1385 | -0.622271731 | LHFPL3 |
| 4 | 46,275,000 | 46,425,000 | 618 | 1387 | 0.585912214 | |
| 4 | 46,350,000 | 46,500,000 | 619 | 851 | 0.486788878 | KMT2E |
| 4 | 46,425,000 | 46,575,000 | 620 | 561 | -0.541140001 | KMT2E,SRPK2 |
| 4 | 46,500,000 | 46,650,000 | 621 | 659 | -0.711961464 | KMT2E,SRPK2 |
| 4 | 46,575,000 | 46,725,000 | 622 | 683 | -0.110563479 | SRPK2 |
| 4 | 46,650,000 | 46,800,000 | 623 | 537 | -0.181582116 | |
| 4 | 46,725,000 | 46,875,000 | 624 | 721 | 0.22077266 | PUS7 |
| 4 | 46,800,000 | 46,950,000 | 625 | 996 | -1.343181005 | PUS7,RINT1 |
| 4 | 46,875,000 | 47,025,000 | 626 | 913 | -1.288445062 | ATXN7L1,PUS7,RINT1 |
| 4 | 46,950,000 | 47,100,000 | 627 | 957 | 0.479658116 | ATXN7L1 |
| 4 | 47,025,000 | 47,175,000 | 628 | 1065 | 0.787640117 | ATXN7L1 |
| 4 | 47,100,000 | 47,250,000 | 629 | 1093 | 1.004666771 | ATXN7L1 |
| 4 | 47,175,000 | 47,325,000 | 630 | 1092 | 0.983933814 | ATXN7L1,CDHR3 |
| 4 | 47,250,000 | 47,400,000 | 631 | 992 | 0.632431271 | CDHR3 |
| 4 | 47,325,000 | 47,475,000 | 632 | 937 | -0.274962303 | CDHR3,SYPL1 |
| 4 | 47,400,000 | 47,550,000 | 633 | 1223 | 0.23830781 | SYPL1 |
| 4 | 47,475,000 | 47,625,000 | 634 | 1153 | 0.71626389 | NAMPT |
| 4 | 47,550,000 | 47,700,000 | 635 | 916 | -0.872478855 | NAMPT |
| 4 | 47,625,000 | 47,775,000 | 636 | 1145 | -3.008773434 | NAMPT |
| 4 | 47,700,000 | 47,850,000 | 637 | 1162 | -2.266613461 | |
| 4 | 47,775,000 | 47,925,000 | 638 | 1136 | 0.345929281 | |
| 4 | 47,850,000 | 48,000,000 | 639 | 1213 | 1.065890005 | |
| 4 | 47,925,000 | 48,075,000 | 640 | 1273 | 0.791809536 | |
| 4 | 48,000,000 | 48,150,000 | 641 | 1226 | 0.571725092 | |
| 4 | 48,075,000 | 48,225,000 | 642 | 1150 | 0.117157088 | |
| 4 | 48,150,000 | 48,300,000 | 643 | 836 | -0.187276941 | PIK3CG |
| 4 | 48,225,000 | 48,375,000 | 644 | 777 | -0.768485966 | PIK3CG |
| 4 | 48,300,000 | 48,450,000 | 645 | 1051 | -0.974318517 | PIK3CG,PRKAR2B |
| 4 | 48,375,000 | 48,525,000 | 646 | 793 | -0.285986564 | PRKAR2B |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 4 | 48,450,000 | 48,600,000 | 647 | 527 | -0.532801954 | COG5,HBP1,PRKAR2B |
| 4 | 48,525,000 | 48,675,000 | 648 | 666 | -0.099404745 | COG5,HBP1,PRKAR2B |
| 4 | 48,600,000 | 48,750,000 | 649 | 657 | 0.579158158 | COG5 |
| 4 | 48,675,000 | 48,825,000 | 650 | 479 | 0.155159341 | COG5,GPR22 |
| 4 | 48,750,000 | 48,900,000 | 651 | 465 | -1.470082987 | BCAP29,COG5,DUS4L,GPR22 |
| 4 | 48,825,000 | 48,975,000 | 652 | 674 | -1.554824463 | BCAP29,COG5,DUS4L,SLC26A4 |
| 4 | 48,900,000 | 49,050,000 | 653 | 1148 | -0.013236236 | BCAP29,SLC26A4,ENSBTAG00000018348 |
| 4 | 48,975,000 | 49,125,000 | 654 | 1521 | 0.655179537 | SLC26A3,SLC26A4,ENSBTAG00000018348 |
| 4 | 49,050,000 | 49,200,000 | 655 | 1593 | 0.330767528 | SLC26A3,ENSBTAG00000018348 |
| 4 | 49,125,000 | 49,275,000 | 656 | 1544 | -0.218328329 | DLD,LAMB1 |
| 4 | 49,200,000 | 49,350,000 | 657 | 1496 | 0.135897085 | DLD,LAMB1 |
| 4 | 49,275,000 | 49,425,000 | 658 | 1569 | 0.81138128 | LAMB1,LAMB4 |
| 4 | 49,350,000 | 49,500,000 | 659 | 1275 | 0.599645554 | LAMB4 |
| 4 | 49,425,000 | 49,575,000 | 660 | 861 | 0.260449134 | LAMB4,NRCAM |
| 4 | 49,500,000 | 49,650,000 | 661 | 676 | 0.275291307 | NRCAM |
| 4 | 49,575,000 | 49,725,000 | 662 | 833 | 0.959767434 | NRCAM |
| 4 | 49,650,000 | 49,800,000 | 663 | 1448 | 0.778313414 | |
| 4 | 49,725,000 | 49,875,000 | 664 | 1592 | -0.042436413 | PNPLA8 |
| 4 | 49,800,000 | 49,950,000 | 665 | 1186 | 0.128229035 | PNPLA8,ENSBTAG00000014795 |
| 4 | 49,875,000 | 50,025,000 | 666 | 741 | 0.686896755 | NME8,PNPLA8,SFRP4,ENSBTAG00000014795 |
| 4 | 49,950,000 | 50,100,000 | 667 | 427 | 0.829099583 | EPDR1,NME8,SFRP4 |
| 4 | 50,025,000 | 50,175,000 | 668 | 371 | 1.067885895 | EPDR1 |
| 4 | 50,100,000 | 50,250,000 | 669 | 342 | 1.107461597 | |
| 4 | 50,175,000 | 50,325,000 | 670 | 345 | 0.762366889 | STARD3NL |
| 4 | 50,250,000 | 50,400,000 | 671 | 543 | 0.560235097 | STARD3NL,ENSBTAG00000035945 |
| 4 | 50,325,000 | 50,475,000 | 672 | 1012 | 0.465317875 | STARD3NL,ENSBTAG00000035945 |
| 4 | 50,400,000 | 50,550,000 | 673 | 1323 | 0.789266002 | |
| 4 | 50,475,000 | 50,625,000 | 674 | 1299 | 0.591843623 | |
| 4 | 50,550,000 | 50,700,000 | 675 | 1120 | 0.323719045 | |
| 4 | 50,625,000 | 50,775,000 | 676 | 1121 | 0.030962926 | |
| 4 | 50,700,000 | 50,850,000 | 677 | 1343 | -0.577040633 | CTTNBP2,ENSBTAG00000036154 |
| 4 | 50,775,000 | 50,925,000 | 678 | 1411 | -0.140305277 | CTTNBP2,ENSBTAG00000036154 |
| 4 | 50,850,000 | 51,000,000 | 679 | 1355 | 0.961344025 | CTTNBP2 |
| 4 | 50,925,000 | 51,075,000 | 680 | 1255 | 1.172616207 | CFTR,CTTNBP2 |
| 4 | 51,000,000 | 51,150,000 | 681 | 1211 | 0.750043395 | CFTR |
| 4 | 51,075,000 | 51,225,000 | 682 | 993 | 0.578664437 | CFTR |
| 4 | 51,150,000 | 51,300,000 | 683 | 642 | 0.877286233 | ASZ1,CFTR |
| 4 | 51,225,000 | 51,375,000 | 684 | 490 | -0.009895515 | ASZ1,CFTR |
| 4 | 51,300,000 | 51,450,000 | 685 | 638 | -0.315414219 | ASZ1,WNT2 |
| 4 | 51,375,000 | 51,525,000 | 686 | 744 | 0.251953149 | ST7,WNT2 |
| 4 | 51,450,000 | 51,600,000 | 687 | 595 | 0.506797087 | ST7 |
| 4 | 51,525,000 | 51,675,000 | 688 | 558 | 0.499633878 | ST7 |
| 4 | 51,600,000 | 51,750,000 | 689 | 638 | 0.351734537 | ST7 |
| 4 | 51,675,000 | 51,825,000 | 690 | 730 | 0.731468479 | CAPZA2,ST7 |
| 4 | 51,750,000 | 51,900,000 | 691 | 1082 | 0.90201864 | CAPZA2 |
| 4 | 51,825,000 | 51,975,000 | 692 | 1037 | 0.671632048 | C-MET,CAPZA2 |
| 4 | 51,900,000 | 52,050,000 | 693 | 684 | -0.180260471 | C-MET |
| 4 | 51,975,000 | 52,125,000 | 694 | 793 | 0.246117398 | C-MET |
| 4 | 52,050,000 | 52,200,000 | 695 | 1013 | 0.455697486 | CAV1 |
| 4 | 52,125,000 | 52,275,000 | 696 | 1152 | 0.314439867 | CAV1,CAV2 |
| 4 | 52,200,000 | 52,350,000 | 697 | 1050 | 0.383549303 | CAV1,CAV2 |
| 4 | 52,275,000 | 52,425,000 | 698 | 650 | 0.214652497 | |
| 4 | 52,350,000 | 52,500,000 | 699 | 497 | -0.22801042 | TES |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 4 | 52,425,000 | 52,575,000 | 700 | 483 | -0.574321998 | TES |
| 4 | 52,500,000 | 52,650,000 | 701 | 769 | -0.492104027 | TES,TFEC |
| 4 | 52,575,000 | 52,725,000 | 702 | 898 | -0.737112821 | TFEC |
| 4 | 52,650,000 | 52,800,000 | 703 | 798 | -1.250498506 | TFEC |
| 4 | 52,725,000 | 52,875,000 | 704 | 833 | -0.735066733 | TFEC |
| 4 | 52,800,000 | 52,950,000 | 705 | 688 | 0.134203521 | TFEC |
| 4 | 52,875,000 | 53,025,000 | 706 | 998 | 1.070179168 | |
| 4 | 52,950,000 | 53,100,000 | 707 | 1111 | 1.114115648 | |
| 4 | 53,025,000 | 53,175,000 | 708 | 1070 | 0.845244757 | |
| 4 | 53,100,000 | 53,250,000 | 709 | 1262 | 0.605990649 | |
| 4 | 53,175,000 | 53,325,000 | 710 | 1088 | 0.345851642 | |
| 4 | 53,250,000 | 53,400,000 | 711 | 754 | 0.323670904 | |
| 4 | 53,325,000 | 53,475,000 | 712 | 776 | 0.644813839 | |
| 4 | 53,400,000 | 53,550,000 | 713 | 764 | 0.373868181 | |
| 4 | 53,475,000 | 53,625,000 | 714 | 678 | -0.092737255 | |
| 4 | 53,550,000 | 53,700,000 | 715 | 753 | 0.524695127 | |
| 4 | 53,625,000 | 53,775,000 | 716 | 675 | 1.148533774 | MDFIC |
| 4 | 53,700,000 | 53,850,000 | 717 | 692 | 1.095967778 | MDFIC |
| 4 | 53,775,000 | 53,925,000 | 718 | 690 | 0.814228388 | MDFIC |
| 4 | 53,850,000 | 54,000,000 | 719 | 579 | 0.851996534 | MDFIC |
| 4 | 53,925,000 | 54,075,000 | 720 | 812 | 0.918733897 | |
| 4 | 54,000,000 | 54,150,000 | 721 | 672 | 0.862118549 | FOXP2 |
| 4 | 54,075,000 | 54,225,000 | 722 | 369 | 1.028124055 | FOXP2 |
| 4 | 54,150,000 | 54,300,000 | 723 | 373 | 1.259276257 | FOXP2 |
| 4 | 54,225,000 | 54,375,000 | 724 | 324 | 1.271013577 | |
| 4 | 54,300,000 | 54,450,000 | 725 | 279 | 1.128137094 | |
| 4 | 54,375,000 | 54,525,000 | 726 | 197 | 0.931571382 | |
| 4 | 54,450,000 | 54,600,000 | 727 | 221 | 1.199087638 | |
| 4 | 54,525,000 | 54,675,000 | 728 | 309 | 1.331170949 | |
| 4 | 54,600,000 | 54,750,000 | 729 | 276 | 0.858138831 | |
| 4 | 54,675,000 | 54,825,000 | 730 | 144 | -0.837400927 | |
| 4 | 54,750,000 | 54,900,000 | 731 | 390 | -0.180009396 | PPP1R3A |
| 4 | 54,825,000 | 54,975,000 | 732 | 497 | 0.087732283 | PPP1R3A |
| 4 | 54,900,000 | 55,050,000 | 733 | 362 | 0.613647371 | PPP1R3A |
| 4 | 54,975,000 | 55,125,000 | 734 | 311 | 0.80236262 | |
| 4 | 55,050,000 | 55,200,000 | 735 | 262 | 0.66262439 | |
| 4 | 55,125,000 | 55,275,000 | 736 | 242 | 0.877947163 | |
| 4 | 55,200,000 | 55,350,000 | 737 | 234 | 0.821469001 | |
| 4 | 55,275,000 | 55,425,000 | 738 | 289 | 0.70776246 | |
| 4 | 55,350,000 | 55,500,000 | 739 | 340 | 0.553848317 | |
| 4 | 55,425,000 | 55,575,000 | 740 | 336 | 0.074151264 | |
| 4 | 55,500,000 | 55,650,000 | 741 | 327 | -0.240370933 | GPR85,ENSBTAG00000046823 |
| 4 | 55,575,000 | 55,725,000 | 742 | 659 | -0.373454163 | GPR85,ENSBTAG00000046823 |
| 4 | 55,650,000 | 55,800,000 | 743 | 946 | 0.396667229 | |
| 4 | 55,725,000 | 55,875,000 | 744 | 996 | 0.196174726 | IFRD1,LSMEM1 |
| 4 | 55,800,000 | 55,950,000 | 745 | 931 | -0.173135032 | IFRD1,LSMEM1 |
| 4 | 55,875,000 | 56,025,000 | 746 | 849 | -0.124353029 | IFRD1,ZNF277 |
| 4 | 55,950,000 | 56,100,000 | 747 | 787 | -0.019248266 | ZNF277 |
| 4 | 56,025,000 | 56,175,000 | 748 | 732 | 0.699985865 | ZNF277 |
| 4 | 56,100,000 | 56,250,000 | 749 | 845 | 0.08940033 | ZNF277 |
| 4 | 56,175,000 | 56,325,000 | 750 | 968 | 0.480062224 | |
| 4 | 56,250,000 | 56,400,000 | 751 | 778 | 0.849825567 | C7orf60 |
| 4 | 56,325,000 | 56,475,000 | 752 | 590 | 0.356502229 | C7orf60,TMEM168 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 56,400,000 | 56,550,000 | 753 | 921 | 0.482503097 | C7orf60,TMEM168,ENSBTAG00000024361 |
| 4 | 56,475,000 | 56,625,000 | 754 | 1167 | 0.409027618 | TMEM168,ENSBTAG00000024361 |
| 4 | 56,550,000 | 56,700,000 | 755 | 1114 | -0.14706807 | DOCK4 |
| 4 | 56,625,000 | 56,775,000 | 756 | 1089 | 0.085372819 | DOCK4 |
| 4 | 56,700,000 | 56,850,000 | 757 | 1075 | 0.922496142 | DOCK4 |
| 4 | 56,775,000 | 56,925,000 | 758 | 1190 | 0.754157556 | DOCK4 |
| 4 | 56,850,000 | 57,000,000 | 759 | 1147 | 0.704240498 | DOCK4 |
| 4 | 56,925,000 | 57,075,000 | 760 | 905 | 0.647139083 | |
| 4 | 57,000,000 | 57,150,000 | 761 | 756 | 0.5601059 | IMMP2L |
| 4 | 57,075,000 | 57,225,000 | 762 | 686 | 0.787120229 | IMMP2L,ENSBTAG00000045592 |
| 4 | 57,150,000 | 57,300,000 | 763 | 767 | 0.855252251 | IMMP2L,ENSBTAG00000045592 |
| 4 | 57,225,000 | 57,375,000 | 764 | 936 | 0.792501962 | IMMP2L |
| 4 | 57,300,000 | 57,450,000 | 765 | 705 | 0.595565344 | IMMP2L |
| 4 | 57,375,000 | 57,525,000 | 766 | 574 | 0.246917214 | IMMP2L |
| 4 | 57,450,000 | 57,600,000 | 767 | 748 | 0.247742596 | IMMP2L,LRRN3 |
| 4 | 57,525,000 | 57,675,000 | 768 | 782 | 0.305256471 | IMMP2L,LRRN3 |
| 4 | 57,600,000 | 57,750,000 | 769 | 815 | 0.386338873 | IMMP2L |
| 4 | 57,675,000 | 57,825,000 | 770 | 945 | 0.59432619 | IMMP2L |
| 4 | 57,750,000 | 57,900,000 | 771 | 1337 | 0.127448823 | IMMP2L |
| 4 | 57,825,000 | 57,975,000 | 772 | 1368 | -0.218385934 | IMMP2L |
| 4 | 57,900,000 | 58,050,000 | 773 | 1247 | 0.461719109 | IMMP2L |
| 4 | 57,975,000 | 58,125,000 | 774 | 1251 | 0.824641818 | IMMP2L |
| 4 | 58,050,000 | 58,200,000 | 775 | 1461 | 0.766895663 | IMMP2L |
| 4 | 58,125,000 | 58,275,000 | 776 | 1424 | 0.55648259 | |
| 4 | 58,200,000 | 58,350,000 | 777 | 1091 | 0.101939094 | |
| 4 | 58,275,000 | 58,425,000 | 778 | 1245 | 0.655004812 | |
| 4 | 58,350,000 | 58,500,000 | 779 | 1443 | 1.052046217 | |
| 4 | 58,425,000 | 58,575,000 | 780 | 1197 | 0.810348485 | |
| 4 | 58,500,000 | 58,650,000 | 781 | 864 | 0.276229471 | |
| 4 | 58,575,000 | 58,725,000 | 782 | 818 | 0.183604259 | |
| 4 | 58,650,000 | 58,800,000 | 783 | 851 | -0.206680771 | |
| 4 | 58,725,000 | 58,875,000 | 784 | 631 | -0.054682521 | |
| 4 | 58,800,000 | 58,950,000 | 785 | 514 | 0.13432795 | |
| 4 | 58,875,000 | 59,025,000 | 786 | 973 | 0.014335006 | |
| 4 | 58,950,000 | 59,100,000 | 787 | 1357 | -0.580866817 | |
| 4 | 59,025,000 | 59,175,000 | 788 | 1496 | -0.417223105 | |
| 4 | 59,100,000 | 59,250,000 | 789 | 1447 | 0.665789582 | |
| 4 | 59,175,000 | 59,325,000 | 790 | 1473 | 0.814019537 | |
| 4 | 59,250,000 | 59,400,000 | 791 | 1544 | 1.009399542 | |
| 4 | 59,325,000 | 59,475,000 | 792 | 1628 | 0.031556718 | |
| 4 | 59,400,000 | 59,550,000 | 793 | 1579 | -0.733932277 | |
| 4 | 59,475,000 | 59,625,000 | 794 | 1551 | 0.436263595 | |
| 4 | 59,550,000 | 59,700,000 | 795 | 1625 | 0.752592919 | |
| 4 | 59,625,000 | 59,775,000 | 796 | 1467 | 0.913412548 | |
| 4 | 59,700,000 | 59,850,000 | 797 | 1527 | 0.908219118 | |
| 4 | 59,775,000 | 59,925,000 | 798 | 1505 | -0.440677529 | |
| 4 | 59,850,000 | 60,000,000 | 799 | 1203 | -1.405734231 | DNAJB9,THAP5 |
| 4 | 59,925,000 | 60,075,000 | 800 | 1387 | 0.56274428 | DNAJB9,GPR141,THAP5,ENSBTAG00000046491 |
| 4 | 60,000,000 | 60,150,000 | 801 | 1636 | 0.264640338 | GPR141,ENSBTAG00000046491 |
| 4 | 60,075,000 | 60,225,000 | 802 | 1541 | 0.452880765 | |
| 4 | 60,150,000 | 60,300,000 | 803 | 1389 | 0.804862029 | |
| 4 | 60,225,000 | 60,375,000 | 804 | 1054 | 0.845478657 | ELMO1 |
| 4 | 60,300,000 | 60,450,000 | 805 | 857 | 0.980163915 | ELMO1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 4 | 60,375,000 | 60,525,000 | 806 | 832 | 0.719773876 | ELMO1 |
| 4 | 60,450,000 | 60,600,000 | 807 | 1079 | 0.82963531 | ELMO1 |
| 4 | 60,525,000 | 60,675,000 | 808 | 1243 | -0.451740395 | ELMO1 |
| 4 | 60,600,000 | 60,750,000 | 809 | 1177 | -1.008102635 | ELMO1 |
| 4 | 60,675,000 | 60,825,000 | 810 | 1181 | 0.535355535 | ELMO1 |
| 4 | 60,750,000 | 60,900,000 | 811 | 1186 | 0.388645684 | ELMO1 |
| 4 | 60,825,000 | 60,975,000 | 812 | 1175 | 0.089799889 | AOAH,ELMO1 |
| 4 | 60,900,000 | 61,050,000 | 813 | 1470 | -0.72801753 | AOAH |
| 4 | 60,975,000 | 61,125,000 | 814 | 1593 | -0.209583238 | AOAH |
| 4 | 61,050,000 | 61,200,000 | 815 | 1220 | 0.826171605 | ANLN,AOAH,ENSBTAG00000048186 |
| 4 | 61,125,000 | 61,275,000 | 816 | 1063 | -0.997215664 | ANLN,AOAH,KIAA0895,ENSBTAG00000048186 |
| 4 | 61,200,000 | 61,350,000 | 817 | 1358 | -0.369815249 | ANLN,KIAA0895 |
| 4 | 61,275,000 | 61,425,000 | 818 | 1727 | -0.051835995 | EEDP1,KIAA0895 |
| 4 | 61,350,000 | 61,500,000 | 819 | 1609 | -0.122141287 | EEDP1 |
| 4 | 61,425,000 | 61,575,000 | 820 | 1445 | 0.701151504 | EEDP1 |
| 4 | 61,500,000 | 61,650,000 | 821 | 1161 | 0.328399195 | CDC10 |
| 4 | 61,575,000 | 61,725,000 | 822 | 658 | 0.021421051 | CDC10 |
| 4 | 61,650,000 | 61,800,000 | 823 | 685 | 0.351790829 | CDC10 |
| 4 | 61,725,000 | 61,875,000 | 824 | 928 | 0.596706131 | HERPUD2 |
| 4 | 61,800,000 | 61,950,000 | 825 | 1148 | 1.171281634 | HERPUD2 |
| 4 | 61,875,000 | 62,025,000 | 826 | 1265 | 1.268950281 | |
| 4 | 61,950,000 | 62,100,000 | 827 | 1203 | 1.195520904 | RBX1 |
| 4 | 62,025,000 | 62,175,000 | 828 | 1351 | 0.679075785 | RBX1 |
| 4 | 62,100,000 | 62,250,000 | 829 | 1560 | 0.664569171 | TBX20 |
| 4 | 62,175,000 | 62,325,000 | 830 | 1662 | 0.964401211 | DPY19L2,TBX20 |
| 4 | 62,250,000 | 62,400,000 | 831 | 1597 | 0.726342212 | DPY19L1,DPY19L2 |
| 4 | 62,325,000 | 62,475,000 | 832 | 1638 | 0.231562025 | DPY19L1,DPY19L2 |
| 4 | 62,400,000 | 62,550,000 | 833 | 1534 | 0.285288103 | DPY19L1,NPSR1 |
| 4 | 62,475,000 | 62,625,000 | 834 | 1119 | 0.162554389 | DPY19L1,NPSR1 |
| 4 | 62,550,000 | 62,700,000 | 835 | 1029 | -0.166180257 | NPSR1 |
| 4 | 62,625,000 | 62,775,000 | 836 | 1433 | -0.131133566 | NPSR1 |
| 4 | 62,700,000 | 62,850,000 | 837 | 1437 | -0.188372366 | |
| 4 | 62,775,000 | 62,925,000 | 838 | 912 | -0.374031153 | |
| 4 | 62,850,000 | 63,000,000 | 839 | 982 | 0.030732617 | |
| 4 | 62,925,000 | 63,075,000 | 840 | 1125 | 0.320660022 | BMPER |
| 4 | 63,000,000 | 63,150,000 | 841 | 1119 | 0.126225256 | BMPER |
| 4 | 63,075,000 | 63,225,000 | 842 | 1030 | -0.028396122 | BMPER |
| 4 | 63,150,000 | 63,300,000 | 843 | 1062 | -0.297871241 | BMPER |
| 4 | 63,225,000 | 63,375,000 | 844 | 1309 | -0.462058406 | BMPER |
| 4 | 63,300,000 | 63,450,000 | 845 | 1296 | -0.744765967 | BMPER |
| 4 | 63,375,000 | 63,525,000 | 846 | 1166 | -1.348614413 | |
| 4 | 63,450,000 | 63,600,000 | 847 | 1180 | -0.7563714 | |
| 4 | 63,525,000 | 63,675,000 | 848 | 1338 | 0.481722158 | BBS9 |
| 4 | 63,600,000 | 63,750,000 | 849 | 1493 | 0.78491063 | BBS9 |
| 4 | 63,675,000 | 63,825,000 | 850 | 1788 | 0.819058081 | BBS9 |
| 4 | 63,750,000 | 63,900,000 | 851 | 1742 | 0.907723971 | BBS9 |
| 4 | 63,825,000 | 63,975,000 | 852 | 1548 | 0.992029303 | BBS9 |
| 4 | 63,900,000 | 64,050,000 | 853 | 1693 | 0.881993526 | BBS9 |
| 4 | 63,975,000 | 64,125,000 | 854 | 1666 | 0.864704939 | BBS9 |
| 4 | 64,050,000 | 64,200,000 | 855 | 1496 | 0.806604913 | BBS9,NT5C3,RP9 |
| 4 | 64,125,000 | 64,275,000 | 856 | 1684 | 0.474794602 | FKBP9,NT5C3,RP9 |
| 4 | 64,200,000 | 64,350,000 | 857 | 1883 | 0.436137906 | FKBP9,KBTBD2,NT5C3 |
| 4 | 64,275,000 | 64,425,000 | 858 | 1786 | 0.4712099 | AVL9,KBTBD2,LSM5 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 4 | 64,350,000 | 64,500,000 | 859 | 1726 | 0.617233103 | AVL9,LSM5 |
| 4 | 64,425,000 | 64,575,000 | 860 | 1430 | 0.055274238 | |
| 4 | 64,500,000 | 64,650,000 | 861 | 1151 | -0.407885891 | |
| 4 | 64,575,000 | 64,725,000 | 862 | 1059 | 0.265097037 | |
| 4 | 64,650,000 | 64,800,000 | 863 | 898 | 0.092078609 | |
| 4 | 64,725,000 | 64,875,000 | 864 | 930 | 0.564164314 | |
| 4 | 64,800,000 | 64,950,000 | 865 | 1154 | -0.097453072 | |
| 4 | 64,875,000 | 65,025,000 | 866 | 1188 | -0.432957043 | PDE1C |
| 4 | 64,950,000 | 65,100,000 | 867 | 1340 | -0.685919177 | PDE1C |
| 4 | 65,025,000 | 65,175,000 | 868 | 1489 | -1.046245671 | PDE1C,PPP1R17 |
| 4 | 65,100,000 | 65,250,000 | 869 | 1454 | 0.270731961 | CCDC129,PPP1R17 |
| 4 | 65,175,000 | 65,325,000 | 870 | 1219 | 0.639785279 | CCDC129,PPP1R17 |
| 4 | 65,250,000 | 65,400,000 | 871 | 1038 | 0.369759141 | CCDC129 |
| 4 | 65,325,000 | 65,475,000 | 872 | 956 | 0.31167741 | |
| 4 | 65,400,000 | 65,550,000 | 873 | 1054 | 0.924323884 | NEUROD6 |
| 4 | 65,475,000 | 65,625,000 | 874 | 1380 | 1.254925428 | NEUROD6 |
| 4 | 65,550,000 | 65,700,000 | 875 | 1252 | 1.272784808 | ADCYAP1R1 |
| 4 | 65,625,000 | 65,775,000 | 876 | 1087 | 1.17622504 | ADCYAP1R1 |
| 4 | 65,700,000 | 65,850,000 | 877 | 1241 | 1.16348587 | ADCYAP1R1,AQP1,GHRHR |
| 4 | 65,775,000 | 65,925,000 | 878 | 1410 | 0.954013504 | AQP1,FAM188B,GHRHR |
| 4 | 65,850,000 | 66,000,000 | 879 | 1357 | 0.977855454 | FAM188B |
| 4 | 65,925,000 | 66,075,000 | 880 | 1509 | 1.02105314 | CRHR2,FAM188B,INMT |
| 4 | 66,000,000 | 66,150,000 | 881 | 1432 | 0.993602125 | CRHR2,GARS,INMT |
| 4 | 66,075,000 | 66,225,000 | 882 | 1212 | 1.12648901 | CRHR2,GARS,GGCT |
| 4 | 66,150,000 | 66,300,000 | 883 | 1341 | 0.927675235 | GARS,GGCT,NOD1 |
| 4 | 66,225,000 | 66,375,000 | 884 | 1450 | 0.809075282 | NOD1,ZNRF2 |
| 4 | 66,300,000 | 66,450,000 | 885 | 1393 | 0.825705386 | NOD1,ZNRF2 |
| 4 | 66,375,000 | 66,525,000 | 886 | 1271 | 0.365007844 | ZNRF2 |
| 4 | 66,450,000 | 66,600,000 | 887 | 1000 | 0.156401408 | ZNRF2 |
| 4 | 66,525,000 | 66,675,000 | 888 | 824 | 1.304604565 | MTURN |
| 4 | 66,600,000 | 66,750,000 | 889 | 864 | 1.29400769 | MTURN,PLEKHA8 |
| 4 | 66,675,000 | 66,825,000 | 890 | 846 | 0.610536143 | FKBP14,PLEKHA8,SCRN1 |
| 4 | 66,750,000 | 66,900,000 | 891 | 897 | 0.281144808 | FKBP14,PLEKHA8,SCRN1,WIPF3 |
| 4 | 66,825,000 | 66,975,000 | 892 | 920 | 0.056895912 | SCRN1,WIPF3 |
| 4 | 66,900,000 | 67,050,000 | 893 | 1176 | 0.246387323 | PRR15 |
| 4 | 66,975,000 | 67,125,000 | 894 | 1215 | 0.586533099 | CHN2,PRR15 |
| 4 | 67,050,000 | 67,200,000 | 895 | 1095 | 1.112057241 | CHN2 |
| 4 | 67,125,000 | 67,275,000 | 896 | 971 | 1.095694304 | CHN2 |
| 4 | 67,200,000 | 67,350,000 | 897 | 663 | 0.519119456 | CHN2 |
| 4 | 67,275,000 | 67,425,000 | 898 | 626 | 0.454600096 | CHN2 |
| 4 | 67,350,000 | 67,500,000 | 899 | 807 | 0.528110084 | CHN2,CPVL |
| 4 | 67,425,000 | 67,575,000 | 900 | 898 | 0.723226591 | CPVL |
| 4 | 67,500,000 | 67,650,000 | 901 | 834 | 0.743674592 | CPVL |
| 4 | 67,575,000 | 67,725,000 | 902 | 628 | -0.313320354 | CPVL,TRIL |
| 4 | 67,650,000 | 67,800,000 | 903 | 473 | -0.509867395 | TRIL,ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,725,000 | 67,875,000 | 904 | 496 | 0.70772439 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,800,000 | 67,950,000 | 905 | 447 | 0.308852548 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,875,000 | 68,025,000 | 906 | 425 | -0.021244444 | ENSBTAG00000018909,ENSBTAG00000046308 |
| 4 | 67,950,000 | 68,100,000 | 907 | 433 | 0.379898919 | ENSBTAG00000046308 |
| 4 | 68,025,000 | 68,175,000 | 908 | 409 | 0.600154275 | ENSBTAG00000046308 |
| 4 | 68,100,000 | 68,250,000 | 909 | 458 | 0.122620875 | ENSBTAG00000046308 |
| 4 | 68,175,000 | 68,325,000 | 910 | 596 | -0.069059312 | ENSBTAG00000046308 |
| 4 | 68,250,000 | 68,400,000 | 911 | 888 | -0.107522749 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 4 | 68,325,000 | 68,475,000 | 912 | 805 | 0.132645141 | JAZF1 |
| 4 | 68,400,000 | 68,550,000 | 913 | 618 | 0.936880867 | JAZF1 |
| 4 | 68,475,000 | 68,625,000 | 914 | 781 | 0.05997227 | JAZF1 |
| 4 | 68,550,000 | 68,700,000 | 915 | 919 | -0.062467837 | JAZF1 |
| 4 | 68,625,000 | 68,775,000 | 916 | 920 | 0.160671923 | JAZF1 |
| 4 | 68,700,000 | 68,850,000 | 917 | 695 | 0.394145275 | JAZF1,TAX1BP1 |
| 4 | 68,775,000 | 68,925,000 | 918 | 636 | 0.48514022 | TAX1BP1 |
| 4 | 68,850,000 | 69,000,000 | 919 | 702 | -0.333123981 | HIBADH,TAX1BP1 |
| 4 | 68,925,000 | 69,075,000 | 920 | 657 | -1.056022945 | HIBADH |
| 4 | 69,000,000 | 69,150,000 | 921 | 720 | -0.780984435 | HIBADH |
| 4 | 69,075,000 | 69,225,000 | 922 | 535 | -0.251676953 | |
| 4 | 69,150,000 | 69,300,000 | 923 | 185 | 0.3253905 | EVX1,HOXA13 |
| 4 | 69,225,000 | 69,375,000 | 924 | 125 | -0.146281734 | EVX1,HOXA10,HOXA11,HOXA13,HOXA3,HOXA4,HOXA5,HOXA6,HOXA7,HOXA9 |
| 4 | 69,300,000 | 69,450,000 | 925 | 172 | 0.218147022 | HOXA1,HOXA10,HOXA11,HOXA2,HOXA3,HOXA4,HOXA5,HOXA6,HOXA7,HOXA9 |
| 4 | 69,375,000 | 69,525,000 | 926 | 297 | 0.685975598 | HOXA1,HOXA2,HOXA3 |
| 4 | 69,450,000 | 69,600,000 | 927 | 441 | 0.205292416 | SKAP2 |
| 4 | 69,525,000 | 69,675,000 | 928 | 460 | -0.005867022 | SKAP2 |
| 4 | 69,600,000 | 69,750,000 | 929 | 391 | 0.350129093 | SKAP2 |
| 4 | 69,675,000 | 69,825,000 | 930 | 532 | 0.238492844 | SKAP2 |
| 4 | 69,750,000 | 69,900,000 | 931 | 695 | -0.172020357 | SKAP2 |
| 4 | 69,825,000 | 69,975,000 | 932 | 1114 | -0.019461293 | |
| 4 | 69,900,000 | 70,050,000 | 933 | 984 | 0.242107388 | SNX10 |
| 4 | 69,975,000 | 70,125,000 | 934 | 388 | 0.364977 | SNX10 |
| 4 | 70,050,000 | 70,200,000 | 935 | 322 | 0.814175556 | HNRNPA2B1,SNX10 |
| 4 | 70,125,000 | 70,275,000 | 936 | 336 | 1.11660973 | HNRNPA2B1,NFE2L3 |
| 4 | 70,200,000 | 70,350,000 | 937 | 349 | 0.616665565 | HNRNPA2B1,NFE2L3 |
| 4 | 70,275,000 | 70,425,000 | 938 | 351 | 0.379576265 | |
| 4 | 70,350,000 | 70,500,000 | 939 | 320 | 0.552828888 | |
| 4 | 70,425,000 | 70,575,000 | 940 | 278 | 0.462317705 | |
| 4 | 70,500,000 | 70,650,000 | 941 | 398 | -0.767905505 | |
| 4 | 70,575,000 | 70,725,000 | 942 | 425 | 0.02163383 | |
| 4 | 70,650,000 | 70,800,000 | 943 | 327 | 0.512718574 | |
| 4 | 70,725,000 | 70,875,000 | 944 | 381 | -0.24369239 | |
| 4 | 70,800,000 | 70,950,000 | 945 | 404 | 0.392098691 | |
| 4 | 70,875,000 | 71,025,000 | 946 | 399 | 0.394562074 | |
| 4 | 70,950,000 | 71,100,000 | 947 | 656 | 0.790030947 | |
| 4 | 71,025,000 | 71,175,000 | 948 | 860 | 0.799190043 | C7orf31,NPVF |
| 4 | 71,100,000 | 71,250,000 | 949 | 658 | 0.522794271 | C7orf31,CYCS,NPVF |
| 4 | 71,175,000 | 71,325,000 | 950 | 638 | 1.047659767 | C7orf31,CYCS |
| 4 | 71,250,000 | 71,400,000 | 951 | 693 | 0.686163511 | OSBPL3 |
| 4 | 71,325,000 | 71,475,000 | 952 | 884 | -1.881014492 | OSBPL3 |
| 4 | 71,400,000 | 71,550,000 | 953 | 1258 | -0.81489092 | DFNA5,OSBPL3,ENSBTAG00000046586 |
| 4 | 71,475,000 | 71,625,000 | 954 | 1193 | 0.690899016 | DFNA5,OSBPL3,ENSBTAG00000046586 |
| 4 | 71,550,000 | 71,700,000 | 955 | 760 | 0.537152006 | DFNA5,MPP6 |
| 4 | 71,625,000 | 71,775,000 | 956 | 392 | 0.343815642 | MPP6 |
| 4 | 71,700,000 | 71,850,000 | 957 | 435 | 0.055972177 | |
| 4 | 71,775,000 | 71,925,000 | 958 | 626 | 0.365758314 | |
| 4 | 71,850,000 | 72,000,000 | 959 | 592 | 0.541018902 | |
| 4 | 71,925,000 | 72,075,000 | 960 | 546 | 0.623276339 | NPY |
| 4 | 72,000,000 | 72,150,000 | 961 | 713 | 0.484156426 | NPY |
| 4 | 72,075,000 | 72,225,000 | 962 | 654 | 0.556947491 | NPY |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 4 | 72,150,000 | 72,300,000 | 963 | 654 | 0.831358214 | |
| 4 | 72,225,000 | 72,375,000 | 964 | 682 | 0.106454686 | |
| 4 | 72,300,000 | 72,450,000 | 965 | 535 | -0.380070204 | STK31 |
| 4 | 72,375,000 | 72,525,000 | 966 | 442 | 0.19620745 | MGC134574,STK31 |
| 4 | 72,450,000 | 72,600,000 | 967 | 406 | 0.059222827 | MGC134574,STK31,ENSBTAG00000046457 |
| 4 | 72,525,000 | 72,675,000 | 968 | 458 | -0.143186376 | ENSBTAG00000046457 |
| 4 | 72,600,000 | 72,750,000 | 969 | 607 | 0.501701235 | ADAM22 |
| 4 | 72,675,000 | 72,825,000 | 970 | 586 | 0.566991447 | ADAM22,SRI |
| 4 | 72,750,000 | 72,900,000 | 971 | 685 | 0.94664226 | ADAM22,SRI,STEAP4 |
| 4 | 72,825,000 | 72,975,000 | 972 | 811 | 0.980538294 | STEAP4 |
| 4 | 72,900,000 | 73,050,000 | 973 | 907 | 0.038772387 | |
| 4 | 72,975,000 | 73,125,000 | 974 | 1092 | 0.124966945 | |
| 4 | 73,050,000 | 73,200,000 | 975 | 778 | 0.14816027 | |
| 4 | 73,125,000 | 73,275,000 | 976 | 1117 | 0.394336086 | |
| 4 | 73,200,000 | 73,350,000 | 977 | 1461 | -0.204057223 | ZNF804B |
| 4 | 73,275,000 | 73,425,000 | 978 | 860 | -0.666469041 | C4H7orf62,ZNF804B |
| 4 | 73,350,000 | 73,500,000 | 979 | 479 | 0.20433706 | C4H7orf62,ZNF804B |
| 4 | 73,425,000 | 73,575,000 | 980 | 774 | -1.533158568 | ZNF804B |
| 4 | 73,500,000 | 73,650,000 | 981 | 1082 | -1.461163872 | ZNF804B,ENSBTAG00000015800 |
| 4 | 73,575,000 | 73,725,000 | 982 | 888 | -0.480378421 | ZNF804B,ENSBTAG00000015800 |
| 4 | 73,650,000 | 73,800,000 | 983 | 633 | -0.034166988 | ZNF804B |
| 4 | 73,725,000 | 73,875,000 | 984 | 579 | 1.014586108 | ZNF804B |
| 4 | 73,800,000 | 73,950,000 | 985 | 782 | 1.251236801 | ZNF804B |
| 4 | 73,875,000 | 74,025,000 | 986 | 1327 | 1.114163861 | ZNF804B |
| 4 | 73,950,000 | 74,100,000 | 987 | 1111 | 1.09240885 | |
| 4 | 74,025,000 | 74,175,000 | 988 | 884 | 0.559356873 | |
| 4 | 74,100,000 | 74,250,000 | 989 | 1115 | 0.877061217 | |
| 4 | 74,175,000 | 74,325,000 | 990 | 1017 | -1.731046118 | |
| 4 | 74,250,000 | 74,400,000 | 991 | 1112 | -3.551935306 | |
| 4 | 74,325,000 | 74,475,000 | 992 | 1297 | -0.900425777 | |
| 4 | 74,400,000 | 74,550,000 | 993 | 1237 | -0.734345397 | |
| 4 | 74,475,000 | 74,625,000 | 994 | 802 | -0.346410382 | |
| 4 | 74,550,000 | 74,700,000 | 995 | 546 | -0.595030596 | |
| 4 | 74,625,000 | 74,775,000 | 996 | 595 | -0.091131066 | |
| 4 | 74,700,000 | 74,850,000 | 997 | 809 | 0.168273052 | ENSBTAG00000015749 |
| 4 | 74,775,000 | 74,925,000 | 998 | 1064 | 0.175800426 | CFAP69,STEAP2,ENSBTAG00000015749 |
| 4 | 74,850,000 | 75,000,000 | 999 | 1009 | 0.435172509 | CFAP69,STEAP2 |
| 4 | 74,925,000 | 75,075,000 | 1000 | 754 | 0.399893575 | CFAP69,GTPBP10 |
| 4 | 75,000,000 | 75,150,000 | 1001 | 754 | 0.407564986 | GTPBP10,HUS1,ENSBTAG00000047435 |
| 4 | 75,075,000 | 75,225,000 | 1002 | 1031 | 0.822298496 | GTPBP10,HUS1,ENSBTAG00000047435 |
| 4 | 75,150,000 | 75,300,000 | 1003 | 1290 | 0.535068939 | HUS1 |
| 4 | 75,225,000 | 75,375,000 | 1004 | 1036 | 0.159009956 | |
| 4 | 75,300,000 | 75,450,000 | 1005 | 1023 | 0.417745538 | |
| 4 | 75,375,000 | 75,525,000 | 1006 | 1086 | 0.228269839 | TNS3 |
| 4 | 75,450,000 | 75,600,000 | 1007 | 1040 | -0.17892831 | TNS3 |
| 4 | 75,525,000 | 75,675,000 | 1008 | 1086 | -0.829733186 | TNS3 |
| 4 | 75,600,000 | 75,750,000 | 1009 | 1082 | -0.657915293 | |
| 4 | 75,675,000 | 75,825,000 | 1010 | 1425 | -1.475944398 | |
| 4 | 75,750,000 | 75,900,000 | 1011 | 1221 | -1.678362315 | |
| 4 | 75,825,000 | 75,975,000 | 1012 | 1076 | 0.55654245 | |
| 4 | 75,900,000 | 76,050,000 | 1013 | 1327 | 0.698644272 | |
| 4 | 75,975,000 | 76,125,000 | 1014 | 1155 | -0.022541529 | |
| 4 | 76,050,000 | 76,200,000 | 1015 | 1078 | -0.783434364 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 76,125,000 | 76,275,000 | 1016 | 1090 | -0.587035328 | |
| 4 | 76,200,000 | 76,350,000 | 1017 | 947 | 0.544899129 | |
| 4 | 76,275,000 | 76,425,000 | 1018 | 1096 | 0.899111398 | |
| 4 | 76,350,000 | 76,500,000 | 1019 | 1091 | 0.836174494 | |
| 4 | 76,425,000 | 76,575,000 | 1020 | 910 | 0.718976701 | |
| 4 | 76,500,000 | 76,650,000 | 1021 | 930 | 0.966227246 | |
| 4 | 76,575,000 | 76,725,000 | 1022 | 810 | 0.858874817 | IGFBP1,IGFBP3 |
| 4 | 76,650,000 | 76,800,000 | 1023 | 599 | 0.937648943 | IGFBP1,IGFBP3 |
| 4 | 76,725,000 | 76,875,000 | 1024 | 466 | 0.789105175 | ADCY1,IGFBP1 |
| 4 | 76,800,000 | 76,950,000 | 1025 | 1164 | 0.706865869 | ADCY1 |
| 4 | 76,875,000 | 77,025,000 | 1026 | 1645 | 0.923818081 | ADCY1 |
| 4 | 76,950,000 | 77,100,000 | 1027 | 1126 | 0.456825164 | ADCY1 |
| 4 | 77,025,000 | 77,175,000 | 1028 | 1001 | -0.193133288 | RAMP3 |
| 4 | 77,100,000 | 77,250,000 | 1029 | 814 | -0.812764229 | NACAD,RAMP3,TBRG4,ENSBTAG00000046334 |
| 4 | 77,175,000 | 77,325,000 | 1030 | 454 | -2.370806321 | CCM2,MYO1G,NACAD,RAMP3,TBRG4,ENSBTAG00000046334 |
| 4 | 77,250,000 | 77,400,000 | 1031 | 412 | -0.527721066 | CCM2,H2AFV,MYO1G,PURB |
| 4 | 77,325,000 | 77,475,000 | 1032 | 414 | -0.132108334 | H2AFV,MYO1G,OGDH,PPIA,PURB,ZMIZ2 |
| 4 | 77,400,000 | 77,550,000 | 1033 | 349 | 0.088297162 | DDX56,H2AFV,OGDH,PPIA,TMED4,ZMIZ2 |
| 4 | 77,475,000 | 77,625,000 | 1034 | 370 | 0.412788695 | DDX56,NPC1L1,NUDCD3,OGDH,TMED4 |
| 4 | 77,550,000 | 77,700,000 | 1035 | 659 | 0.600558877 | DDX56,NPC1L1,NUDCD3 |
| 4 | 77,625,000 | 77,775,000 | 1036 | 895 | 0.814286933 | CAMK2B,NUDCD3 |
| 4 | 77,700,000 | 77,850,000 | 1037 | 962 | 0.856422324 | CAMK2B,GCK,YKT6 |
| 4 | 77,775,000 | 77,925,000 | 1038 | 661 | 0.655432801 | AEBP1,CAMK2B,GCK,MYL7,POLD2,POLM,YKT6 |
| 4 | 77,850,000 | 78,000,000 | 1039 | 406 | 0.768903412 | AEBP1,BLVRA,GCK,MYL7,POLD2,POLM |
| 4 | 77,925,000 | 78,075,000 | 1040 | 623 | 0.419955573 | BLVRA |
| 4 | 78,000,000 | 78,150,000 | 1041 | 948 | 0.651833657 | BLVRA,FLJ10803 |
| 4 | 78,075,000 | 78,225,000 | 1042 | 879 | 1.057715167 | FLJ10803,HECW1,STK17A |
| 4 | 78,150,000 | 78,300,000 | 1043 | 807 | 1.033323738 | HECW1,STK17A |
| 4 | 78,225,000 | 78,375,000 | 1044 | 881 | -0.306373633 | HECW1 |
| 4 | 78,300,000 | 78,450,000 | 1045 | 1004 | -2.695291765 | HECW1 |
| 4 | 78,375,000 | 78,525,000 | 1046 | 814 | -1.609352061 | HECW1 |
| 4 | 78,450,000 | 78,600,000 | 1047 | 611 | 0.392810363 | HECW1 |
| 4 | 78,525,000 | 78,675,000 | 1048 | 733 | 0.770572456 | |
| 4 | 78,600,000 | 78,750,000 | 1049 | 636 | -0.233687335 | |
| 4 | 78,675,000 | 78,825,000 | 1050 | 532 | -0.731573311 | MRPL32,PSMA2 |
| 4 | 78,750,000 | 78,900,000 | 1051 | 659 | 0.744119234 | C7orf25,MRPL32,PSMA2 |
| 4 | 78,825,000 | 78,975,000 | 1052 | 902 | 1.036740981 | C7orf25,PSMA2 |
| 4 | 78,900,000 | 79,050,000 | 1053 | 754 | 1.14956059 | |
| 4 | 78,975,000 | 79,125,000 | 1054 | 575 | 0.899118476 | |
| 4 | 79,050,000 | 79,200,000 | 1055 | 807 | 0.104069586 | |
| 4 | 79,125,000 | 79,275,000 | 1056 | 1074 | 0.2533673 | |
| 4 | 79,200,000 | 79,350,000 | 1057 | 906 | 0.377416016 | |
| 4 | 79,275,000 | 79,425,000 | 1058 | 564 | 0.38952741 | |
| 4 | 79,350,000 | 79,500,000 | 1059 | 532 | 0.430113932 | GLI3 |
| 4 | 79,425,000 | 79,575,000 | 1060 | 837 | 0.565039719 | GLI3 |
| 4 | 79,500,000 | 79,650,000 | 1061 | 760 | 0.439009105 | GLI3 |
| 4 | 79,575,000 | 79,725,000 | 1062 | 646 | -0.266043504 | GLI3 |
| 4 | 79,650,000 | 79,800,000 | 1063 | 982 | 0.398914532 | GLI3 |
| 4 | 79,725,000 | 79,875,000 | 1064 | 1210 | 0.675879574 | GLI3 |
| 4 | 79,800,000 | 79,950,000 | 1065 | 1104 | -0.268680558 | |
| 4 | 79,875,000 | 80,025,000 | 1066 | 724 | -2.325517117 | INHBA |
| 4 | 79,950,000 | 80,100,000 | 1067 | 571 | -3.04567953 | INHBA |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 80,025,000 | 80,175,000 | 1068 | 564 | -1.378893314 | |
| 4 | 80,100,000 | 80,250,000 | 1069 | 418 | -0.88031138 | |
| 4 | 80,175,000 | 80,325,000 | 1070 | 280 | -2.486066065 | |
| 4 | 80,250,000 | 80,400,000 | 1071 | 247 | 0.010969976 | |
| 4 | 80,325,000 | 80,475,000 | 1072 | 533 | 1.09424585 | |
| 4 | 80,400,000 | 80,550,000 | 1073 | 1036 | 1.275279169 | |
| 4 | 80,475,000 | 80,625,000 | 1074 | 1233 | 1.264524799 | |
| 4 | 80,550,000 | 80,700,000 | 1075 | 1081 | 0.857050275 | |
| 4 | 80,625,000 | 80,775,000 | 1076 | 968 | 0.700361401 | |
| 4 | 80,700,000 | 80,850,000 | 1077 | 1033 | 0.291822157 | |
| 4 | 80,775,000 | 80,925,000 | 1078 | 1113 | 0.049565397 | SUGCT |
| 4 | 80,850,000 | 81,000,000 | 1079 | 949 | 0.178551857 | SUGCT |
| 4 | 80,925,000 | 81,075,000 | 1080 | 836 | 0.116015829 | SUGCT |
| 4 | 81,000,000 | 81,150,000 | 1081 | 1075 | 0.081825826 | SUGCT |
| 4 | 81,075,000 | 81,225,000 | 1082 | 1226 | 0.726813845 | SUGCT |
| 4 | 81,150,000 | 81,300,000 | 1083 | 1091 | 1.030198271 | SUGCT |
| 4 | 81,225,000 | 81,375,000 | 1084 | 1085 | 0.649216118 | SUGCT |
| 4 | 81,300,000 | 81,450,000 | 1085 | 1028 | 0.745556203 | SUGCT |
| 4 | 81,375,000 | 81,525,000 | 1086 | 865 | 0.853737959 | SUGCT |
| 4 | 81,450,000 | 81,600,000 | 1087 | 882 | 0.846434412 | SUGCT |
| 4 | 81,525,000 | 81,675,000 | 1088 | 725 | 0.853248647 | C4H7ORF11,CDK13,SUGCT |
| 4 | 81,600,000 | 81,750,000 | 1089 | 457 | 0.909203884 | C4H7ORF11,CDK13,SUGCT |
| 4 | 81,675,000 | 81,825,000 | 1090 | 701 | 0.642731048 | CDK13 |
| 4 | 81,750,000 | 81,900,000 | 1091 | 988 | -0.021679853 | CDK13 |
| 4 | 81,825,000 | 81,975,000 | 1092 | 1187 | 0.431404487 | RALA |
| 4 | 81,900,000 | 82,050,000 | 1093 | 1234 | 0.740447133 | RALA,YAE1D1 |
| 4 | 81,975,000 | 82,125,000 | 1094 | 964 | 0.67309171 | POU6F2,YAE1D1 |
| 4 | 82,050,000 | 82,200,000 | 1095 | 1117 | 0.284685936 | POU6F2 |
| 4 | 82,125,000 | 82,275,000 | 1096 | 1433 | 0.754440565 | POU6F2 |
| 4 | 82,200,000 | 82,350,000 | 1097 | 1456 | 0.810217924 | POU6F2 |
| 4 | 82,275,000 | 82,425,000 | 1098 | 1499 | 0.688455609 | POU6F2 |
| 4 | 82,350,000 | 82,500,000 | 1099 | 1261 | 1.062068317 | POU6F2 |
| 4 | 82,425,000 | 82,575,000 | 1100 | 1078 | 1.054939438 | POU6F2 |
| 4 | 82,500,000 | 82,650,000 | 1101 | 953 | 0.714580132 | |
| 4 | 82,575,000 | 82,725,000 | 1102 | 592 | -0.065648089 | VPS41 |
| 4 | 82,650,000 | 82,800,000 | 1103 | 710 | 0.054665247 | VPS41 |
| 4 | 82,725,000 | 82,875,000 | 1104 | 880 | 0.246685622 | VPS41 |
| 4 | 82,800,000 | 82,950,000 | 1105 | 1204 | 0.235485548 | VPS41 |
| 4 | 82,875,000 | 83,025,000 | 1106 | 1410 | 0.003284928 | VPS41 |
| 4 | 82,950,000 | 83,100,000 | 1107 | 1385 | 0.562797855 | AMPH |
| 4 | 83,025,000 | 83,175,000 | 1108 | 1475 | 1.024087809 | AMPH |
| 4 | 83,100,000 | 83,250,000 | 1109 | 1053 | 0.664880007 | AMPH |
| 4 | 83,175,000 | 83,325,000 | 1110 | 1048 | 0.343233296 | AMPH,TRGV11,ENSBTAG00000000144 |
| 4 | 83,250,000 | 83,400,000 | 1111 | 2011 | 0.441327735 | TRGV11,ENSBTAG00000000144,ENSBTAG00000010300 |
| 4 | 83,325,000 | 83,475,000 | 1112 | 2514 | 0.588113289 | 0 ENSBTAG00000002859,ENSBTAG00000010300,ENSBTAG00000047684 |
| 4 | 83,400,000 | 83,550,000 | 1113 | 1826 | 0.43195989 | LSM8,ENSBTAG00000002859,ENSBTAG00000010300,ENSBTAG00000047684 |
| 4 | 83,475,000 | 83,625,000 | 1114 | 1310 | 0.005431924 | LSM8,ENSBTAG00000002859 |
| 4 | 83,550,000 | 83,700,000 | 1115 | 1131 | 0.345833635 | |
| 4 | 83,625,000 | 83,775,000 | 1116 | 891 | 0.616729064 | |
| 4 | 83,700,000 | 83,850,000 | 1117 | 1062 | 0.844523671 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------|
| 4 | 83,775,000 | 83,925,000 | 1118 | 966 | 0.763411415 | |
| 4 | 83,850,000 | 84,000,000 | 1119 | 780 | -1.055288279 | |
| 4 | 83,925,000 | 84,075,000 | 1120 | 810 | -0.422931117 | |
| 4 | 84,000,000 | 84,150,000 | 1121 | 738 | 0.750185561 | |
| 4 | 84,075,000 | 84,225,000 | 1122 | 577 | 0.498461616 | |
| 4 | 84,150,000 | 84,300,000 | 1123 | 817 | 0.250544779 | |
| 4 | 84,225,000 | 84,375,000 | 1124 | 773 | 0.416401819 | |
| 4 | 84,300,000 | 84,450,000 | 1125 | 602 | -0.876432944 | |
| 4 | 84,375,000 | 84,525,000 | 1126 | 928 | -0.464147954 | |
| 4 | 84,450,000 | 84,600,000 | 1127 | 925 | -0.3134546 | |
| 4 | 84,525,000 | 84,675,000 | 1128 | 789 | -0.548283979 | |
| 4 | 84,600,000 | 84,750,000 | 1129 | 830 | 0.274517481 | |
| 4 | 84,675,000 | 84,825,000 | 1130 | 1275 | 0.732246638 | |
| 4 | 84,750,000 | 84,900,000 | 1131 | 1235 | 0.818556602 | |
| 4 | 84,825,000 | 84,975,000 | 1132 | 607 | 0.558641801 | |
| 4 | 84,900,000 | 85,050,000 | 1133 | 563 | -0.110102737 | |
| 4 | 84,975,000 | 85,125,000 | 1134 | 808 | 0.24534833 | |
| 4 | 85,050,000 | 85,200,000 | 1135 | 941 | 0.164902449 | |
| 4 | 85,125,000 | 85,275,000 | 1136 | 880 | 0.225134644 | |
| 4 | 85,200,000 | 85,350,000 | 1137 | 699 | 0.965092543 | |
| 4 | 85,275,000 | 85,425,000 | 1138 | 740 | 1.117848056 | |
| 4 | 85,350,000 | 85,500,000 | 1139 | 723 | 0.975370852 | KCND2 |
| 4 | 85,425,000 | 85,575,000 | 1140 | 875 | 0.994443694 | KCND2 |
| 4 | 85,500,000 | 85,650,000 | 1141 | 1045 | 0.519676985 | KCND2 |
| 4 | 85,575,000 | 85,725,000 | 1142 | 803 | -0.497948647 | KCND2 |
| 4 | 85,650,000 | 85,800,000 | 1143 | 753 | -0.99725836 | KCND2 |
| 4 | 85,725,000 | 85,875,000 | 1144 | 646 | -1.160089944 | KCND2 |
| 4 | 85,800,000 | 85,950,000 | 1145 | 718 | -0.549514213 | KCND2 |
| 4 | 85,875,000 | 86,025,000 | 1146 | 1016 | -0.47158062 | KCND2 |
| 4 | 85,950,000 | 86,100,000 | 1147 | 1149 | -0.044651637 | KCND2,TSPAN12 |
| 4 | 86,025,000 | 86,175,000 | 1148 | 1186 | 0.712569911 | TSPAN12 |
| 4 | 86,100,000 | 86,250,000 | 1149 | 818 | 0.538323423 | ING3,TSPAN12 |
| 4 | 86,175,000 | 86,325,000 | 1150 | 663 | 0.175074875 | CPED1,ING3 |
| 4 | 86,250,000 | 86,400,000 | 1151 | 1174 | -0.103762388 | CPED1 |
| 4 | 86,325,000 | 86,475,000 | 1152 | 1334 | -0.178425001 | CPED1 |
| 4 | 86,400,000 | 86,550,000 | 1153 | 920 | 0.173697501 | CPED1 |
| 4 | 86,475,000 | 86,625,000 | 1154 | 597 | 0.10543065 | CPED1,FAM3C,WNT16 |
| 4 | 86,550,000 | 86,700,000 | 1155 | 509 | 0.508664285 | CPED1,FAM3C,WNT16 |
| 4 | 86,625,000 | 86,775,000 | 1156 | 595 | 0.443654015 | FAM3C |
| 4 | 86,700,000 | 86,850,000 | 1157 | 640 | 0.281899514 | |
| 4 | 86,775,000 | 86,925,000 | 1158 | 909 | 0.604529918 | |
| 4 | 86,850,000 | 87,000,000 | 1159 | 1169 | 0.712694431 | |
| 4 | 86,925,000 | 87,075,000 | 1160 | 870 | 0.276379935 | |
| 4 | 87,000,000 | 87,150,000 | 1161 | 770 | -0.192892924 | PTPRZ1 |
| 4 | 87,075,000 | 87,225,000 | 1162 | 903 | 0.38554766 | PTPRZ1 |
| 4 | 87,150,000 | 87,300,000 | 1163 | 741 | 0.470422172 | PTPRZ1 |
| 4 | 87,225,000 | 87,375,000 | 1164 | 710 | 0.70960023 | AASS,PTPRZ1 |
| 4 | 87,300,000 | 87,450,000 | 1165 | 704 | 1.036478783 | AASS |
| 4 | 87,375,000 | 87,525,000 | 1166 | 736 | 1.173292089 | CADPS2,FEZF1 |
| 4 | 87,450,000 | 87,600,000 | 1167 | 571 | 0.950432336 | CADPS2,FEZF1 |
| 4 | 87,525,000 | 87,675,000 | 1168 | 591 | -0.23805019 | CADPS2 |
| 4 | 87,600,000 | 87,750,000 | 1169 | 748 | -0.111154954 | CADPS2 |
| 4 | 87,675,000 | 87,825,000 | 1170 | 702 | -0.2642019 | CADPS2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 87,750,000 | 87,900,000 | 1171 | 615 | -0.029776064 | CADPS2 |
| 4 | 87,825,000 | 87,975,000 | 1172 | 422 | 0.869299605 | CADPS2 |
| 4 | 87,900,000 | 88,050,000 | 1173 | 626 | 0.197924446 | CADPS2 |
| 4 | 87,975,000 | 88,125,000 | 1174 | 887 | -0.069307095 | CADPS2 |
| 4 | 88,050,000 | 88,200,000 | 1175 | 923 | 0.156826305 | CADPS2,TAS2R16 |
| 4 | 88,125,000 | 88,275,000 | 1176 | 980 | 0.037201795 | SLC13A1,TAS2R16 |
| 4 | 88,200,000 | 88,350,000 | 1177 | 858 | -0.635668659 | SLC13A1 |
| 4 | 88,275,000 | 88,425,000 | 1178 | 628 | -0.132489251 | SLC13A1 |
| 4 | 88,350,000 | 88,500,000 | 1179 | 533 | -0.04190921 | SLC13A1 |
| 4 | 88,425,000 | 88,575,000 | 1180 | 344 | -0.671908216 | IQUB |
| 4 | 88,500,000 | 88,650,000 | 1181 | 319 | -0.161933802 | IQUB |
| 4 | 88,575,000 | 88,725,000 | 1182 | 459 | 0.316794702 | ASB15,IQUB,NDUFA5 |
| 4 | 88,650,000 | 88,800,000 | 1183 | 648 | 0.751388963 | ASB15,LMOD2,NDUFA5,WASL |
| 4 | 88,725,000 | 88,875,000 | 1184 | 750 | 0.725164571 | ASB15,LMOD2,WASL |
| 4 | 88,800,000 | 88,950,000 | 1185 | 994 | 0.404160908 | WASL |
| 4 | 88,875,000 | 89,025,000 | 1186 | 1480 | -0.190689747 | HYAL4,ENSBTAG00000004640 |
| 4 | 88,950,000 | 89,100,000 | 1187 | 1378 | -0.208930722 | HYAL4,ENSBTAG00000004640,ENSBTAG00000040349 |
| 4 | 89,025,000 | 89,175,000 | 1188 | 1021 | 0.331491581 | ENSBTAG00000031958,ENSBTAG00000040349 |
| 4 | 89,100,000 | 89,250,000 | 1189 | 1035 | 0.447877454 | ENSBTAG00000031958 |
| 4 | 89,175,000 | 89,325,000 | 1190 | 1343 | -0.066521412 | |
| 4 | 89,250,000 | 89,400,000 | 1191 | 1404 | 0.188159264 | |
| 4 | 89,325,000 | 89,475,000 | 1192 | 1636 | 1.1005877 | |
| 4 | 89,400,000 | 89,550,000 | 1193 | 1702 | 1.103246904 | |
| 4 | 89,475,000 | 89,625,000 | 1194 | 1279 | 0.184623483 | |
| 4 | 89,550,000 | 89,700,000 | 1195 | 1023 | -1.007040111 | |
| 4 | 89,625,000 | 89,775,000 | 1196 | 939 | -1.406202118 | |
| 4 | 89,700,000 | 89,850,000 | 1197 | 1026 | -0.643117053 | GPR37 |
| 4 | 89,775,000 | 89,925,000 | 1198 | 1125 | -0.959857902 | GPR37,POT1 |
| 4 | 89,850,000 | 90,000,000 | 1199 | 1147 | -1.302513345 | POT1 |
| 4 | 89,925,000 | 90,075,000 | 1200 | 1279 | 0.134636626 | POT1 |
| 4 | 90,000,000 | 90,150,000 | 1201 | 1268 | 1.04353428 | |
| 4 | 90,075,000 | 90,225,000 | 1202 | 1262 | 0.859305322 | |
| 4 | 90,150,000 | 90,300,000 | 1203 | 1291 | 0.81890725 | |
| 4 | 90,225,000 | 90,375,000 | 1204 | 1230 | 1.172701104 | |
| 4 | 90,300,000 | 90,450,000 | 1205 | 1483 | 0.702301352 | |
| 4 | 90,375,000 | 90,525,000 | 1206 | 1507 | 0.413928495 | |
| 4 | 90,450,000 | 90,600,000 | 1207 | 1540 | 0.605692254 | |
| 4 | 90,525,000 | 90,675,000 | 1208 | 1569 | 0.173085504 | |
| 4 | 90,600,000 | 90,750,000 | 1209 | 1499 | -0.491180613 | |
| 4 | 90,675,000 | 90,825,000 | 1210 | 1705 | 0.02680757 | |
| 4 | 90,750,000 | 90,900,000 | 1211 | 1737 | 0.766713223 | |
| 4 | 90,825,000 | 90,975,000 | 1212 | 1678 | 0.529218061 | |
| 4 | 90,900,000 | 91,050,000 | 1213 | 1867 | 0.270468061 | |
| 4 | 90,975,000 | 91,125,000 | 1214 | 1963 | -0.372349754 | |
| 4 | 91,050,000 | 91,200,000 | 1215 | 1949 | -1.507551343 | |
| 4 | 91,125,000 | 91,275,000 | 1216 | 1732 | -1.258603049 | |
| 4 | 91,200,000 | 91,350,000 | 1217 | 1352 | -0.366854808 | |
| 4 | 91,275,000 | 91,425,000 | 1218 | 1381 | 0.564594965 | |
| 4 | 91,350,000 | 91,500,000 | 1219 | 1454 | 1.071274131 | |
| 4 | 91,425,000 | 91,575,000 | 1220 | 1340 | 0.920835456 | |
| 4 | 91,500,000 | 91,650,000 | 1221 | 1306 | 0.576164157 | |
| 4 | 91,575,000 | 91,725,000 | 1222 | 976 | 0.244868231 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 4 | 91,650,000 | 91,800,000 | 1223 | 907 | -0.362317186 | |
| 4 | 91,725,000 | 91,875,000 | 1224 | 1164 | -0.170881735 | |
| 4 | 91,800,000 | 91,950,000 | 1225 | 986 | -0.423069098 | |
| 4 | 91,875,000 | 92,025,000 | 1226 | 807 | -0.480293209 | |
| 4 | 91,950,000 | 92,100,000 | 1227 | 1093 | 0.841283018 | |
| 4 | 92,025,000 | 92,175,000 | 1228 | 1358 | 0.669288554 | |
| 4 | 92,100,000 | 92,250,000 | 1229 | 981 | 0.417511196 | |
| 4 | 92,175,000 | 92,325,000 | 1230 | 669 | 0.840652715 | |
| 4 | 92,250,000 | 92,400,000 | 1231 | 692 | 0.960326576 | |
| 4 | 92,325,000 | 92,475,000 | 1232 | 720 | 1.013238566 | ZNF800 |
| 4 | 92,400,000 | 92,550,000 | 1233 | 620 | 0.16627853 | ZNF800 |
| 4 | 92,475,000 | 92,625,000 | 1234 | 867 | -0.105928396 | ARF5,GCC1 |
| 4 | 92,550,000 | 92,700,000 | 1235 | 1094 | 0.198358834 | ARF5,FSCN3,GCC1,PAX4,SND1 |
| 4 | 92,625,000 | 92,775,000 | 1236 | 977 | 0.709057955 | ARF5,FSCN3,PAX4,SND1 |
| 4 | 92,700,000 | 92,850,000 | 1237 | 833 | 0.746805331 | SND1 |
| 4 | 92,775,000 | 92,925,000 | 1238 | 729 | 0.184532255 | SND1 |
| 4 | 92,850,000 | 93,000,000 | 1239 | 1059 | -0.081411985 | LRRRC4,SND1 |
| 4 | 92,925,000 | 93,075,000 | 1240 | 967 | -0.232990604 | LRRRC4,SND1 |
| 4 | 93,000,000 | 93,150,000 | 1241 | 627 | -0.898449582 | LRRRC4,SND1 |
| 4 | 93,075,000 | 93,225,000 | 1242 | 618 | -1.895775676 | SND1 |
| 4 | 93,150,000 | 93,300,000 | 1243 | 1144 | -1.841568528 | OB |
| 4 | 93,225,000 | 93,375,000 | 1244 | 1368 | -1.307783645 | OB,PRRT4,RBM28 |
| 4 | 93,300,000 | 93,450,000 | 1245 | 866 | -0.827408891 | IMPDH1,PRRT4,RBM28,ENSBTAG00000031866 |
| 4 | 93,375,000 | 93,525,000 | 1246 | 799 | 0.188334468 | FAM71F1,FAM71F2,HIG2,IMPDH1,ENSBTAG00000031866 |
| 4 | 93,450,000 | 93,600,000 | 1247 | 821 | 0.644673771 | CALU,CCDC136,FAM71F1,FAM71F2,HIG2,OPN1SW |
| 4 | 93,525,000 | 93,675,000 | 1248 | 631 | 0.57980891 | ATP6V1F,CALU,CCDC136,FLNC,KCP,OPN1SW,ENSBTAG00000045645 |
| 4 | 93,600,000 | 93,750,000 | 1249 | 638 | 0.532208663 | ATP6V1F,CCDC136,FLNC,IRF5,KCP,TNPO3,ENSBTAG00000045645 |
| 4 | 93,675,000 | 93,825,000 | 1250 | 653 | 0.54664521 | IRF5,KCP,TNPO3 |
| 4 | 93,750,000 | 93,900,000 | 1251 | 595 | -0.049314716 | TNPO3,TSPAN33 |
| 4 | 93,825,000 | 93,975,000 | 1252 | 537 | 0.10921509 | AHCYL2,SMO,TSPAN33 |
| 4 | 93,900,000 | 94,050,000 | 1253 | 607 | 1.010057701 | AHCYL2,SMO,TSPAN33 |
| 4 | 93,975,000 | 94,125,000 | 1254 | 818 | 1.130635871 | AHCYL2 |
| 4 | 94,050,000 | 94,200,000 | 1255 | 836 | 1.217056764 | AHCYL2,STRIP2 |
| 4 | 94,125,000 | 94,275,000 | 1256 | 794 | 0.137069852 | AHCYL2,NRF1,STRIP2 |
| 4 | 94,200,000 | 94,350,000 | 1257 | 609 | -0.434414387 | NRF1,STRIP2 |
| 4 | 94,275,000 | 94,425,000 | 1258 | 315 | 0.232614906 | NRF1 |
| 4 | 94,350,000 | 94,500,000 | 1259 | 196 | -0.611687298 | NRF1,UBE2H,ENSBTAG00000047845 |
| 4 | 94,425,000 | 94,575,000 | 1260 | 129 | 0.010795393 | UBE2H,ENSBTAG00000047845 |
| 4 | 94,500,000 | 94,650,000 | 1261 | 137 | 0.862218286 | UBE2H,ZC3HC1 |
| 4 | 94,575,000 | 94,725,000 | 1262 | 142 | 1.346559396 | KLHDC10,ZC3HC1 |
| 4 | 94,650,000 | 94,800,000 | 1263 | 199 | 0.492876803 | KLHDC10,TMEM209,ZC3HC1 |
| 4 | 94,725,000 | 94,875,000 | 1264 | 232 | -1.807502829 | CPA4,KLHDC10,MGC127766,TMEM209 |
| 4 | 94,800,000 | 94,950,000 | 1265 | 196 | -5.241373854 | CPA1,CPA4,CPA5,MGC127766 |
| 4 | 94,875,000 | 95,025,000 | 1266 | 190 | -3.235767702 | CEP41,CPA1,CPA4,CPA5 |
| 4 | 94,950,000 | 95,100,000 | 1267 | 190 | -0.952725678 | CEP41,COPG2,MEST |
| 4 | 95,025,000 | 95,175,000 | 1268 | 216 | 0.962198528 | COPG2,MEST |
| 4 | 95,100,000 | 95,250,000 | 1269 | 280 | 1.410465854 | COPG2,TSGA13 |
| 4 | 95,175,000 | 95,325,000 | 1270 | 336 | 1.448271323 | COPG2,TSGA13 |
| 4 | 95,250,000 | 95,400,000 | 1271 | 503 | 0.39147156 | |
| 4 | 95,325,000 | 95,475,000 | 1272 | 561 | 0.602124559 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------|
| 4 | 95,400,000 | 95,550,000 | 1273 | 706 | 1.294034926 | |
| 4 | 95,475,000 | 95,625,000 | 1274 | 854 | 1.253341937 | |
| 4 | 95,550,000 | 95,700,000 | 1275 | 764 | 1.219046156 | |
| 4 | 95,625,000 | 95,775,000 | 1276 | 480 | 1.263333924 | |
| 4 | 95,700,000 | 95,850,000 | 1277 | 438 | 1.335328752 | MKLN1 |
| 4 | 95,775,000 | 95,925,000 | 1278 | 530 | 1.26972457 | MKLN1 |
| 4 | 95,850,000 | 96,000,000 | 1279 | 456 | 0.868028892 | MKLN1 |
| 4 | 95,925,000 | 96,075,000 | 1280 | 986 | 0.344138726 | MKLN1,PODXL |
| 4 | 96,000,000 | 96,150,000 | 1281 | 1408 | 0.264931265 | MKLN1,PODXL |
| 4 | 96,075,000 | 96,225,000 | 1282 | 1291 | -0.022810644 | |
| 4 | 96,150,000 | 96,300,000 | 1283 | 1441 | -0.196119297 | |
| 4 | 96,225,000 | 96,375,000 | 1284 | 1102 | -0.129066564 | |
| 4 | 96,300,000 | 96,450,000 | 1285 | 444 | -0.555124469 | |
| 4 | 96,375,000 | 96,525,000 | 1286 | 604 | 0.223885162 | |
| 4 | 96,450,000 | 96,600,000 | 1287 | 973 | 0.680954746 | PLEX2 |
| 4 | 96,525,000 | 96,675,000 | 1288 | 1430 | 0.916872055 | PLEX2 |
| 4 | 96,600,000 | 96,750,000 | 1289 | 1794 | 0.90676041 | PLEX2 |
| 4 | 96,675,000 | 96,825,000 | 1290 | 1933 | 0.201033909 | PLEX2 |
| 4 | 96,750,000 | 96,900,000 | 1291 | 1343 | -0.671288317 | PLEX2,ENSBTAG00000038448 |
| 4 | 96,825,000 | 96,975,000 | 1292 | 541 | -0.832126294 | PLEX2,ENSBTAG00000038448 |
| 4 | 96,900,000 | 97,050,000 | 1293 | 491 | 0.687273261 | PLEX2 |
| 4 | 96,975,000 | 97,125,000 | 1294 | 739 | 1.238462913 | PLEX2 |
| 4 | 97,050,000 | 97,200,000 | 1295 | 820 | 1.327268705 | |
| 4 | 97,125,000 | 97,275,000 | 1296 | 794 | 0.002190631 | |
| 4 | 97,200,000 | 97,350,000 | 1297 | 922 | -0.344247948 | CHCHD3 |
| 4 | 97,275,000 | 97,425,000 | 1298 | 831 | 0.222423767 | CHCHD3 |
| 4 | 97,350,000 | 97,500,000 | 1299 | 533 | 0.232299133 | CHCHD3 |
| 4 | 97,425,000 | 97,575,000 | 1300 | 461 | -0.608272722 | CHCHD3 |
| 4 | 97,500,000 | 97,650,000 | 1301 | 387 | -0.170521789 | CHCHD3 |
| 4 | 97,575,000 | 97,725,000 | 1302 | 716 | 0.714819301 | CHCHD3 |
| 4 | 97,650,000 | 97,800,000 | 1303 | 1203 | 0.881758689 | EXOC4 |
| 4 | 97,725,000 | 97,875,000 | 1304 | 1407 | 1.206762424 | EXOC4 |
| 4 | 97,800,000 | 97,950,000 | 1305 | 1054 | 0.809548113 | EXOC4 |
| 4 | 97,875,000 | 98,025,000 | 1306 | 485 | -0.412413503 | EXOC4 |
| 4 | 97,950,000 | 98,100,000 | 1307 | 333 | -0.64769575 | EXOC4 |
| 4 | 98,025,000 | 98,175,000 | 1308 | 227 | -1.158410342 | EXOC4 |
| 4 | 98,100,000 | 98,250,000 | 1309 | 648 | 0.416684634 | EXOC4 |
| 4 | 98,175,000 | 98,325,000 | 1310 | 1008 | 0.662860506 | EXOC4 |
| 4 | 98,250,000 | 98,400,000 | 1311 | 972 | 0.403796835 | EXOC4 |
| 4 | 98,325,000 | 98,475,000 | 1312 | 965 | 0.572724252 | EXOC4 |
| 4 | 98,400,000 | 98,550,000 | 1313 | 1108 | 0.842716798 | EXOC4 |
| 4 | 98,475,000 | 98,625,000 | 1314 | 1135 | 0.921575193 | EXOC4 |
| 4 | 98,550,000 | 98,700,000 | 1315 | 938 | 1.213480411 | EXOC4,LRGUK |
| 4 | 98,625,000 | 98,775,000 | 1316 | 468 | 1.439441581 | LRGUK |
| 4 | 98,700,000 | 98,850,000 | 1317 | 307 | 0.401725484 | LRGUK,SLC35B4 |
| 4 | 98,775,000 | 98,925,000 | 1318 | 629 | -0.700521402 | LRGUK,SLC35B4 |
| 4 | 98,850,000 | 99,000,000 | 1319 | 781 | -0.680094954 | SLC35B4 |
| 4 | 98,925,000 | 99,075,000 | 1320 | 599 | -0.21270702 | AKR1B1 |
| 4 | 99,000,000 | 99,150,000 | 1321 | 646 | 0.583468287 | AKR1B1,ENSBTAG00000001582 |
| 4 | 99,075,000 | 99,225,000 | 1322 | 645 | 0.902165156 | BPGM,ENSBTAG00000001582 |
| 4 | 99,150,000 | 99,300,000 | 1323 | 467 | 0.42600519 | BPGM |
| 4 | 99,225,000 | 99,375,000 | 1324 | 826 | 0.654171639 | BPGM |
| 4 | 99,300,000 | 99,450,000 | 1325 | 1070 | 0.588889013 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 4 | 99,375,000 | 99,525,000 | 1326 | 1032 | 0.367747605 | CALD1 |
| 4 | 99,450,000 | 99,600,000 | 1327 | 1158 | 0.307741153 | AGBL3,CALD1 |
| 4 | 99,525,000 | 99,675,000 | 1328 | 1083 | 0.484221005 | AGBL3,CALD1 |
| 4 | 99,600,000 | 99,750,000 | 1329 | 999 | 0.560694878 | AGBL3,C7orf49,TMEM140,WDR91 |
| 4 | 99,675,000 | 99,825,000 | 1330 | 1161 | -0.310395725 | AGBL3,C7orf49,STRA8,TMEM140,WDR91,ENSBTAG0000031548 |
| 4 | 99,750,000 | 99,900,000 | 1331 | 1234 | -0.772878412 | STRA8,WDR91,ENSBTAG0000031548,ENSBTAG0000047605 |
| 4 | 99,825,000 | 99,975,000 | 1332 | 1686 | 0.139716269 | ENSBTAG0000031548,ENSBTAG0000047605 |
| 4 | 99,900,000 | 100,050,000 | 1333 | 1507 | 0.408450178 | CNOT4,ENSBTAG0000031548,ENSBTAG0000047605 |
| 4 | 99,975,000 | 100,125,000 | 1334 | 975 | 0.235741266 | CNOT4 |
| 4 | 100,050,000 | 100,200,000 | 1335 | 1085 | 0.325608479 | CNOT4,NUP205 |
| 4 | 100,125,000 | 100,275,000 | 1336 | 1187 | 0.354398586 | CNOT4,NUP205,PL-5283 |
| 4 | 100,200,000 | 100,350,000 | 1337 | 1171 | 0.766304321 | FAM180A,NUP205,PL-5283,SLC13A4 |
| 4 | 100,275,000 | 100,425,000 | 1338 | 1158 | 0.899399057 | FAM180A,PL-5283,SLC13A4 |
| 4 | 100,350,000 | 100,500,000 | 1339 | 1317 | -0.465734313 | |
| 4 | 100,425,000 | 100,575,000 | 1340 | 1366 | 0.190609486 | MTPN |
| 4 | 100,500,000 | 100,650,000 | 1341 | 1454 | 0.92765824 | MTPN |
| 4 | 100,575,000 | 100,725,000 | 1342 | 1689 | 1.015872298 | MTPN |
| 4 | 100,650,000 | 100,800,000 | 1343 | 1670 | 1.221393444 | |
| 4 | 100,725,000 | 100,875,000 | 1344 | 1474 | 0.085869583 | |
| 4 | 100,800,000 | 100,950,000 | 1345 | 1097 | -0.855066454 | |
| 4 | 100,875,000 | 101,025,000 | 1346 | 639 | -0.033049499 | |
| 4 | 100,950,000 | 101,100,000 | 1347 | 450 | 1.175173679 | |
| 4 | 101,025,000 | 101,175,000 | 1348 | 518 | 0.633859843 | |
| 4 | 101,100,000 | 101,250,000 | 1349 | 718 | 0.318215756 | |
| 4 | 101,175,000 | 101,325,000 | 1350 | 807 | 0.414511575 | |
| 4 | 101,250,000 | 101,400,000 | 1351 | 680 | 0.483954508 | |
| 4 | 101,325,000 | 101,475,000 | 1352 | 903 | 0.068052251 | |
| 4 | 101,400,000 | 101,550,000 | 1353 | 948 | 0.162207089 | |
| 4 | 101,475,000 | 101,625,000 | 1354 | 1016 | 0.073331132 | CHRM2 |
| 4 | 101,550,000 | 101,700,000 | 1355 | 1159 | -0.337684614 | CHRM2,PTN |
| 4 | 101,625,000 | 101,775,000 | 1356 | 1075 | -0.087500355 | PTN |
| 4 | 101,700,000 | 101,850,000 | 1357 | 1235 | -0.404207846 | PTN |
| 4 | 101,775,000 | 101,925,000 | 1358 | 1193 | -0.593209238 | DGKI,PTN |
| 4 | 101,850,000 | 102,000,000 | 1359 | 1285 | 0.367364453 | DGKI |
| 4 | 101,925,000 | 102,075,000 | 1360 | 1316 | -0.154913076 | DGKI |
| 4 | 102,000,000 | 102,150,000 | 1361 | 1079 | -2.935593208 | DGKI |
| 4 | 102,075,000 | 102,225,000 | 1362 | 1005 | -2.42896523 | DGKI |
| 4 | 102,150,000 | 102,300,000 | 1363 | 1066 | -0.709862137 | DGKI |
| 4 | 102,225,000 | 102,375,000 | 1364 | 1161 | -0.17078061 | |
| 4 | 102,300,000 | 102,450,000 | 1365 | 1295 | 0.726329844 | CREB3L2 |
| 4 | 102,375,000 | 102,525,000 | 1366 | 1386 | 0.999458102 | CREB3L2 |
| 4 | 102,450,000 | 102,600,000 | 1367 | 1000 | 0.766349332 | AKR1D1,CREB3L2 |
| 4 | 102,525,000 | 102,675,000 | 1368 | 650 | 0.503688188 | AKR1D1,CREB3L2 |
| 4 | 102,600,000 | 102,750,000 | 1369 | 512 | 0.411976672 | AKR1D1 |
| 4 | 102,675,000 | 102,825,000 | 1370 | 435 | 0.266608752 | |
| 4 | 102,750,000 | 102,900,000 | 1371 | 467 | 0.189045706 | |
| 4 | 102,825,000 | 102,975,000 | 1372 | 354 | -0.016872653 | |
| 4 | 102,900,000 | 103,050,000 | 1373 | 389 | 0.331185759 | TRIM24 |
| 4 | 102,975,000 | 103,125,000 | 1374 | 556 | 0.074033936 | SVOPL,TRIM24 |
| 4 | 103,050,000 | 103,200,000 | 1375 | 602 | -1.139796945 | ATP6V0A4,SVOPL,TRIM24 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 103,125,000 | 103,275,000 | 1376 | 422 | -2.491352885 | ATP6V0A4,SVOPL,TMEM213 |
| 4 | 103,200,000 | 103,350,000 | 1377 | 424 | 0.116890683 | ATP6V0A4,KIAA1549,TMEM213 |
| 4 | 103,275,000 | 103,425,000 | 1378 | 884 | 0.608432391 | KIAA1549,TMEM213 |
| 4 | 103,350,000 | 103,500,000 | 1379 | 859 | 0.405376492 | KIAA1549,ZC3HAV1,ZC3HAV1L |
| 4 | 103,425,000 | 103,575,000 | 1380 | 490 | 0.740647074 | TTC26,ZC3HAV1,ZC3HAV1L |
| 4 | 103,500,000 | 103,650,000 | 1381 | 423 | 1.192697791 | TTC26,UBN2,ZC3HAV1 |
| 4 | 103,575,000 | 103,725,000 | 1382 | 339 | 0.975766113 | TTC26,UBN2,ENSBTAG00000017770 |
| 4 | 103,650,000 | 103,800,000 | 1383 | 387 | 0.775936795 | KLRG2,UBN2,ENSBTAG00000017770 |
| 4 | 103,725,000 | 103,875,000 | 1384 | 708 | 1.153210322 | CLEC2L,KLRG2,ENSBTAG00000017770 |
| 4 | 103,800,000 | 103,950,000 | 1385 | 867 | 1.150007544 | CLEC2L,HIPK2,KLRG2 |
| 4 | 103,875,000 | 104,025,000 | 1386 | 638 | 0.991964519 | HIPK2 |
| 4 | 103,950,000 | 104,100,000 | 1387 | 551 | 0.934978379 | HIPK2 |
| 4 | 104,025,000 | 104,175,000 | 1388 | 468 | 0.443622821 | TBXAS1 |
| 4 | 104,100,000 | 104,250,000 | 1389 | 580 | -1.16052172 | TBXAS1 |
| 4 | 104,175,000 | 104,325,000 | 1390 | 743 | -1.829474147 | PARP12,TBXAS1 |
| 4 | 104,250,000 | 104,400,000 | 1391 | 479 | -1.96357313 | KDM7A,PARP12,TBXAS1 |
| 4 | 104,325,000 | 104,475,000 | 1392 | 549 | -0.026174152 | KDM7A,PARP12 |
| 4 | 104,400,000 | 104,550,000 | 1393 | 766 | 0.059403406 | KDM7A |
| 4 | 104,475,000 | 104,625,000 | 1394 | 880 | -0.017565465 | SLC37A3 |
| 4 | 104,550,000 | 104,700,000 | 1395 | 1035 | 0.284480869 | MKRN1,RAB19,SLC37A3 |
| 4 | 104,625,000 | 104,775,000 | 1396 | 668 | 0.055915881 | DENND2A,MKRN1,RAB19 |
| 4 | 104,700,000 | 104,850,000 | 1397 | 423 | -0.657151101 | ADCK2,DENND2A |
| 4 | 104,775,000 | 104,925,000 | 1398 | 513 | 0.128731875 | ADCK2,BRAF,DENND2A,NDUFB2 |
| 4 | 104,850,000 | 105,000,000 | 1399 | 399 | 0.61291635 | BRAF,NDUFB2 |
| 4 | 104,925,000 | 105,075,000 | 1400 | 514 | 0.514657873 | BRAF,ENSBTAG00000046211 |
| 4 | 105,000,000 | 105,150,000 | 1401 | 857 | 0.543215877 | BRAF,MRPS33,ENSBTAG00000046211 |
| 4 | 105,075,000 | 105,225,000 | 1402 | 990 | 0.147042628 | MRPS33 |
| 4 | 105,150,000 | 105,300,000 | 1403 | 899 | 0.301362692 | |
| 4 | 105,225,000 | 105,375,000 | 1404 | 927 | -1.471943687 | |
| 4 | 105,300,000 | 105,450,000 | 1405 | 841 | -2.527209776 | |
| 4 | 105,375,000 | 105,525,000 | 1406 | 920 | -1.607160334 | |
| 4 | 105,450,000 | 105,600,000 | 1407 | 1249 | -1.693632491 | ENSBTAG00000046341 |
| 4 | 105,525,000 | 105,675,000 | 1408 | 1028 | -1.231279386 | AGK,ENSBTAG00000046341 |
| 4 | 105,600,000 | 105,750,000 | 1409 | 843 | 0.96779576 | AGK |
| 4 | 105,675,000 | 105,825,000 | 1410 | 1171 | 0.611186796 | AGK,KIAA1147,WEE2 |
| 4 | 105,750,000 | 105,900,000 | 1411 | 1346 | -0.03479671 | KIAA1147,SSBP1,TAS2R3,TAS2R4,WEE2 |
| 4 | 105,825,000 | 105,975,000 | 1412 | 1323 | -1.630232577 | PRSS37,SSBP1,TAS2R3,TAS2R4,WEE2,ENSBTAG00000027341 |
| 4 | 105,900,000 | 106,050,000 | 1413 | 1755 | -0.579294035 | OR9A4,PRSS37,ENSBTAG00000027341 |
| 4 | 105,975,000 | 106,125,000 | 1414 | 2026 | 0.100868643 | CLEC5A,MGAM,OR9A4,TAS2R38,ENSBTAG00000003664 |
| 4 | 106,050,000 | 106,200,000 | 1415 | 2136 | 0.09179711 | CLEC5A,MGAM,TAS2R38,ENSBTAG00000003664 |
| 4 | 106,125,000 | 106,275,000 | 1416 | 2082 | 0.325754279 | MGAM,ENSBTAG00000046616 |
| 4 | 106,200,000 | 106,350,000 | 1417 | 1374 | 0.697484694 | MGAM,PRSS58,ENSBTAG0000003621,ENSBTAG00000031236,ENSBTAG00000046616,ENSBTAG00000048012 |
| 4 | 106,275,000 | 106,425,000 | 1418 | 1093 | 0.590570083 | PRSS58,ENSBTAG0000003621,ENSBTAG0000003633,ENSBTAG00000024245,ENSBTAG00000031236,ENSBTAG00000046616,ENSBTAG00000048012 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 4 | 106,350,000 | 106,500,000 | 1419 | 1801 | 0.246346467 | TRB@,ENSBTAG00000003633,ENSBTAG00000024245,ENSBTAG00000031232,ENSBTAG00000031236,ENSBTAG00000038385,ENSBTAG00000039956,ENSBTAG0000040281,ENSBTAG00000045978,ENSBTAG00000046164,ENSBTAG00000046660,ENSBTAG00000046793,ENSBTAG00000047072,ENSBTAG00000047562,ENSBTAG00000047657,ENSBTAG00000047722,ENSBTAG0000047725,ENSBTAG00000048016 |
| 4 | 106,425,000 | 106,575,000 | 1420 | 2150 | -0.424867595 | TRB@,ENSBTAG00000031232,ENSBTAG00000031234,ENSBTAG00000038127,ENSBTAG00000038307,ENSBTAG00000038385,ENSBTAG00000038690,ENSBTAG0000038934,ENSBTAG00000038943,ENSBTAG00000038960,ENSBTAG00000039093,ENSBTAG00000039956,ENSBTAG00000040261,ENSBTAG00000040281,ENSBTAG00000040387,ENSBTAG00000040388,ENSBTAG0000040387,ENSBTAG00000046164,ENSBTAG00000046496,ENSBTAG00000046660,ENSBTAG00000046793,ENSBTAG00000047072,ENSBTAG00000047193,ENSBTAG00000047562,ENSBTAG00000047657,ENSBTAG0000047722,ENSBTAG00000047725,ENSBTAG00000047844,ENSBTAG00000047922,ENSBTAG00000048016,ENSBTAG00000048189 |
| 4 | 106,500,000 | 106,650,000 | 1421 | 1850 | -1.790522847 | TRB@,TRBV16,ENSBTAG00000031234,ENSBTAG0000038127,ENSBTAG00000038307,ENSBTAG00000038605,ENSBTAG00000038690,ENSBTAG00000038934,ENSBTAG00000038943,ENSBTAG00000038960,ENSBTAG00000039093,ENSBTAG00000039559,ENSBTAG00000039674,ENSBTAG00000040261,ENSBTAG00000040387,ENSBTAG00000040388,ENSBTAG00000046496,ENSBTAG00000047193,ENSBTAG00000047657,ENSBTAG0000047844,ENSBTAG00000047922,ENSBTAG00000048189 |
| 4 | 106,575,000 | 106,725,000 | 1422 | 1364 | -1.183919723 | TRB@,TRBV16,ENSBTAG00000031216,ENSBTAG0000038605,ENSBTAG00000039559,ENSBTAG00000039674 |
| 4 | 106,650,000 | 106,800,000 | 1423 | 1069 | -0.082618046 | ENSBTAG00000031216 |
| 4 | 106,725,000 | 106,875,000 | 1424 | 1511 | -0.317222894 | TRBV29-1,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,800,000 | 106,950,000 | 1425 | 1547 | -0.137721915 | PRSS2,TRBV29-1,TRBV30,ENSBTAG00000002259,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,875,000 | 107,025,000 | 1426 | 1182 | 0.035446261 | EPHB6,PRSS2,TRBV29-1,TRBV30,TRPV6,ENSBTAG00000002259,ENSBTAG00000027204,ENSBTAG00000034609 |
| 4 | 106,950,000 | 107,100,000 | 1427 | 879 | -0.553888114 | C7orf34,EPHB6,KEL,TRPV5,TRPV6 |
| 4 | 107,025,000 | 107,175,000 | 1428 | 720 | -1.104334443 | C7orf34,KEL,TRPV5 |
| 4 | 107,100,000 | 107,250,000 | 1429 | 1352 | 0.099608613 | ENSBTAG00000024230,ENSBTAG00000024231,ENSBTAG00000037918 |
| 4 | 107,175,000 | 107,325,000 | 1430 | 1764 | 0.063563863 | PIP,ENSBTAG00000024230,ENSBTAG00000024231,ENSBTAG00000037918,ENSBTAG00000045677 |
| 4 | 107,250,000 | 107,400,000 | 1431 | 1481 | -0.422082287 | PIP,ENSBTAG00000031212,ENSBTAG00000045677 |
| 4 | 107,325,000 | 107,475,000 | 1432 | 1127 | 0.157352132 | GSTK1,TAS2R40,ENSBTAG00000031212 |
| 4 | 107,400,000 | 107,550,000 | 1433 | 771 | 0.65177595 | CASP2,CLCN1,GSTK1,TAS2R40,TMEM139 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 107,475,000 | 107,625,000 | 1434 | 571 | 1.01903092 | CASP2,CLCN1,EPHA1,FAM131B,TMEM139,ZYX |
| 4 | 107,550,000 | 107,700,000 | 1435 | 812 | 0.786801397 | CLCN1,EPHA1,FAM131B,ZYX,ENSBTAG00000038649 |
| 4 | 107,625,000 | 107,775,000 | 1436 | 1291 | 0.235967737 | ENSBTAG00000013248,ENSBTAG00000038649,ENSBTAG00000039614 |
| 4 | 107,700,000 | 107,850,000 | 1437 | 1098 | 0.155680232 | FAM115A,FAM115C,ENSBTAG00000013248,ENSBTAG00000039614 |
| 4 | 107,775,000 | 107,925,000 | 1438 | 840 | 0.873388065 | FAM115A,FAM115C,ENSBTAG00000045576 |
| 4 | 107,850,000 | 108,000,000 | 1439 | 996 | 0.294465164 | FAM115A,ENSBTAG00000011191,ENSBTAG00000045576,ENSBTAG00000046020,ENSBTAG00000047188,ENSBTAG00000048115 |
| 4 | 107,925,000 | 108,075,000 | 1440 | 1407 | -0.049353754 | OR2A5,OR6B1,ENSBTAG00000011191,ENSBTAG0000046020,ENSBTAG00000047188,ENSBTAG00000048115 |
| 4 | 108,000,000 | 108,150,000 | 1441 | 1505 | 0.324677127 | OR2A12,OR2A2,OR2A5,OR6B1,ENSBTAG00000013673,ENSBTAG00000037927 |
| 4 | 108,075,000 | 108,225,000 | 1442 | 1126 | 0.158863991 | OR2A12,OR2A2,ENSBTAG00000013673,ENSBTAG00000037927 |
| 4 | 108,150,000 | 108,300,000 | 1443 | 870 | -0.257063994 | |
| 4 | 108,225,000 | 108,375,000 | 1444 | 876 | 0.630011107 | |
| 4 | 108,300,000 | 108,450,000 | 1445 | 867 | 1.108733063 | ARHGEF5,ENSBTAG00000020364 |
| 4 | 108,375,000 | 108,525,000 | 1446 | 1040 | -0.095567273 | ARHGEF5,NOBOX,ENSBTAG00000020364 |
| 4 | 108,450,000 | 108,600,000 | 1447 | 1214 | -0.06878888 | ARHGEF5,NOBOX,TPK1 |
| 4 | 108,525,000 | 108,675,000 | 1448 | 900 | -0.435708678 | TPK1 |
| 4 | 108,600,000 | 108,750,000 | 1449 | 941 | -1.916274577 | TPK1 |
| 4 | 108,675,000 | 108,825,000 | 1450 | 916 | -0.53080649 | TPK1 |
| 4 | 108,750,000 | 108,900,000 | 1451 | 1006 | -0.641063065 | TPK1 |
| 4 | 108,825,000 | 108,975,000 | 1452 | 1222 | -0.828591774 | TPK1 |
| 4 | 108,900,000 | 109,050,000 | 1453 | 1278 | 0.013513257 | TPK1 |
| 4 | 108,975,000 | 109,125,000 | 1454 | 1279 | 0.627172593 | |
| 4 | 109,050,000 | 109,200,000 | 1455 | 1169 | 0.361827643 | |
| 4 | 109,125,000 | 109,275,000 | 1456 | 1304 | 0.645391781 | |
| 4 | 109,200,000 | 109,350,000 | 1457 | 1568 | 0.438441644 | |
| 4 | 109,275,000 | 109,425,000 | 1458 | 1687 | 0.436162576 | |
| 4 | 109,350,000 | 109,500,000 | 1459 | 1812 | 1.029705876 | |
| 4 | 109,425,000 | 109,575,000 | 1460 | 1429 | 0.832434305 | |
| 4 | 109,500,000 | 109,650,000 | 1461 | 996 | 0.597113611 | |
| 4 | 109,575,000 | 109,725,000 | 1462 | 1568 | 0.290240515 | |
| 4 | 109,650,000 | 109,800,000 | 1463 | 1948 | 0.310404952 | |
| 4 | 109,725,000 | 109,875,000 | 1464 | 1820 | 0.441089681 | |
| 4 | 109,800,000 | 109,950,000 | 1465 | 1604 | 0.360243098 | |
| 4 | 109,875,000 | 110,025,000 | 1466 | 998 | 0.185135798 | |
| 4 | 109,950,000 | 110,100,000 | 1467 | 553 | -0.257171054 | |
| 4 | 110,025,000 | 110,175,000 | 1468 | 548 | 0.167163346 | |
| 4 | 110,100,000 | 110,250,000 | 1469 | 892 | 0.653573465 | |
| 4 | 110,175,000 | 110,325,000 | 1470 | 1208 | 0.388952273 | |
| 4 | 110,250,000 | 110,400,000 | 1471 | 1221 | 0.30665409 | |
| 4 | 110,325,000 | 110,475,000 | 1472 | 1198 | 0.494669077 | |
| 4 | 110,400,000 | 110,550,000 | 1473 | 913 | 0.460473028 | |
| 4 | 110,475,000 | 110,625,000 | 1474 | 931 | 1.141879277 | |
| 4 | 110,550,000 | 110,700,000 | 1475 | 1289 | -0.077579089 | |
| 4 | 110,625,000 | 110,775,000 | 1476 | 1476 | -0.740361655 | |
| 4 | 110,700,000 | 110,850,000 | 1477 | 1423 | -0.081030142 | |
| 4 | 110,775,000 | 110,925,000 | 1478 | 1106 | -0.148751977 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 110,850,000 | 111,000,000 | 1479 | 1220 | 0.338686787 | ENSBTAG00000048097 |
| 4 | 110,925,000 | 111,075,000 | 1480 | 1588 | 0.377235472 | ENSBTAG00000048097 |
| 4 | 111,000,000 | 111,150,000 | 1481 | 1770 | -0.475392903 | |
| 4 | 111,075,000 | 111,225,000 | 1482 | 1444 | -1.146343666 | ENSBTAG0000000719 |
| 4 | 111,150,000 | 111,300,000 | 1483 | 884 | -1.037851888 | ENSBTAG00000000719 |
| 4 | 111,225,000 | 111,375,000 | 1484 | 1288 | 0.94219614 | ENSBTAG00000000719 |
| 4 | 111,300,000 | 111,450,000 | 1485 | 1574 | 1.194540848 | |
| 4 | 111,375,000 | 111,525,000 | 1486 | 979 | 0.34617994 | |
| 4 | 111,450,000 | 111,600,000 | 1487 | 733 | -2.376797272 | ENSBTAG00000047459 |
| 4 | 111,525,000 | 111,675,000 | 1488 | 925 | -1.313359747 | ENSBTAG00000047459 |
| 4 | 111,600,000 | 111,750,000 | 1489 | 883 | -0.814693708 | |
| 4 | 111,675,000 | 111,825,000 | 1490 | 970 | -3.49841978 | |
| 4 | 111,750,000 | 111,900,000 | 1491 | 1155 | -2.558904427 | |
| 4 | 111,825,000 | 111,975,000 | 1492 | 1319 | 0.647214396 | |
| 4 | 111,900,000 | 112,050,000 | 1493 | 1240 | 0.80810476 | ENSBTAG00000047873 |
| 4 | 111,975,000 | 112,125,000 | 1494 | 1245 | 0.251151164 | ENSBTAG00000047873 |
| 4 | 112,050,000 | 112,200,000 | 1495 | 1288 | 0.009589823 | ENSBTAG00000045871 |
| 4 | 112,125,000 | 112,275,000 | 1496 | 1272 | 0.134707027 | ENSBTAG00000027832,ENSBTAG00000045871 |
| 4 | 112,200,000 | 112,350,000 | 1497 | 1426 | -0.772665153 | ENSBTAG00000027832 |
| 4 | 112,275,000 | 112,425,000 | 1498 | 1337 | -1.794468742 | ENSBTAG00000027832 |
| 4 | 112,350,000 | 112,500,000 | 1499 | 1502 | -0.723096083 | ENSBTAG00000027832 |
| 4 | 112,425,000 | 112,575,000 | 1500 | 1568 | -0.311763153 | ENSBTAG00000027832 |
| 4 | 112,500,000 | 112,650,000 | 1501 | 1386 | -0.273518448 | ENSBTAG00000027832 |
| 4 | 112,575,000 | 112,725,000 | 1502 | 1081 | 0.319450557 | |
| 4 | 112,650,000 | 112,800,000 | 1503 | 670 | -0.331856245 | CUL1 |
| 4 | 112,725,000 | 112,875,000 | 1504 | 433 | -2.002625699 | CUL1,EZH2 |
| 4 | 112,800,000 | 112,950,000 | 1505 | 485 | -1.360746855 | CUL1,EZH2 |
| 4 | 112,875,000 | 113,025,000 | 1506 | 733 | -0.961017707 | ERP70,ZNF786 |
| 4 | 112,950,000 | 113,100,000 | 1507 | 754 | -0.560307453 | ERP70,ZNF282,ZNF398,ZNF786 |
| 4 | 113,025,000 | 113,175,000 | 1508 | 395 | 0.061450395 | ZNF212,ZNF282,ZNF398,ZNF783,ZNF786 |
| 4 | 113,100,000 | 113,250,000 | 1509 | 282 | 1.018790212 | ZNF212,ZNF282,ZNF777,ZNF783 |
| 4 | 113,175,000 | 113,325,000 | 1510 | 556 | 1.212321468 | ZNF746,ZNF777 |
| 4 | 113,250,000 | 113,400,000 | 1511 | 804 | 0.63386515 | KRBA1,ZNF746,ZNF777 |
| 4 | 113,325,000 | 113,475,000 | 1512 | 813 | 0.747560584 | KRBA1,SSPO,ZNF467 |
| 4 | 113,400,000 | 113,550,000 | 1513 | 898 | 0.947547339 | ATP6V0E2,SSPO,ZNF467,ZNF862 |
| 4 | 113,475,000 | 113,625,000 | 1514 | 1177 | 0.560031007 | ATP6V0E2,LRRC61,RARRES2,REPIN1,SSPO,ZNF862 |
| 4 | 113,550,000 | 113,700,000 | 1515 | 1762 | 0.220553142 | GIMAP8,LRRC61,RARRES2,REPIN1,ZNF775 |
| 4 | 113,625,000 | 113,775,000 | 1516 | 2139 | 0.06979783 | GIMAP7,GIMAP8,ZNF775,ENSBTAG00000039588 |
| 4 | 113,700,000 | 113,850,000 | 1517 | 1700 | -0.071713914 | GIMAP7,ENSBTAG00000039588 |
| 4 | 113,775,000 | 113,925,000 | 1518 | 1397 | 0.128664411 | GIMAP4,GIMAP7 |
| 4 | 113,850,000 | 114,000,000 | 1519 | 1482 | -0.366646745 | GIMAP1,GIMAP4,GIMAP7 |
| 4 | 113,925,000 | 114,075,000 | 1520 | 1393 | -0.559982748 | GIMAP1,GIMAP7,ENSBTAG00000039928 |
| 4 | 114,000,000 | 114,150,000 | 1521 | 1549 | -0.995515079 | ENSBTAG00000000715,ENSBTAG00000004894,ENSBTAG00000008550,ENSBTAG00000037510,ENSBTAG000039928 |
| 4 | 114,075,000 | 114,225,000 | 1522 | 1564 | -1.48330613 | TMEM176A,TMEM176B,ENSBTAG00000000715,ENSBTAG00000004894,ENSBTAG00000008550,ENSBTAG000037510 |
| 4 | 114,150,000 | 114,300,000 | 1523 | 1197 | -1.287054732 | ABP1,TMEM176A,TMEM176B,ENSBTAG00000000715 |
| 4 | 114,225,000 | 114,375,000 | 1524 | 1173 | -0.489067108 | ABP1,KCNH2 |
| 4 | 114,300,000 | 114,450,000 | 1525 | 1031 | -0.557884871 | ABCB8,ACCN3,ATG9B,CDK5,KCNH2,NOS3,SLC4A2 |
| 4 | 114,375,000 | 114,525,000 | 1526 | 759 | -2.021721581 | ABCB8,ACCN3,AGAP3,ATG9B,CDK5,FASTK,GBX1,NOS3,SLC4A2,TMUB1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 4 | 114,450,000 | 114,600,000 | 1527 | 809 | -0.4886155 | ABCF2,AGAP3,ASB10,FASTK,GBX1,IQCA1P1,SLC4A2,TMUB1,ENSBTAG00000024204 |
| 4 | 114,525,000 | 114,675,000 | 1528 | 1103 | -0.005271779 | ABCF2,ASB10,CHPF2,GBX1,IQCA1P1,SMARCD3,ENSBTAG00000024204 |
| 4 | 114,600,000 | 114,750,000 | 1529 | 1098 | -0.471916532 | ABCF2,CHPF2,NUB1,SMARCD3,WDR86 |
| 4 | 114,675,000 | 114,825,000 | 1530 | 938 | -1.117844032 | CRYGN,NUB1,RHEB,SMARCD3,WDR86 |
| 4 | 114,750,000 | 114,900,000 | 1531 | 662 | -0.379493503 | CRYGN,PRKAG2,RHEB,WDR86 |
| 4 | 114,825,000 | 114,975,000 | 1532 | 448 | 0.581019851 | PRKAG2,RHEB,ENSBTAG00000046461 |
| 4 | 114,900,000 | 115,050,000 | 1533 | 743 | 0.297687168 | PRKAG2,ENSBTAG00000046461 |
| 4 | 114,975,000 | 115,125,000 | 1534 | 973 | 0.141030382 | |
| 4 | 115,050,000 | 115,200,000 | 1535 | 890 | -0.008888737 | |
| 4 | 115,125,000 | 115,275,000 | 1536 | 1071 | -0.724518489 | GALNTL5 |
| 4 | 115,200,000 | 115,350,000 | 1537 | 1053 | -1.011528834 | GALNT11,GALNTL5 |
| 4 | 115,275,000 | 115,425,000 | 1538 | 707 | -0.034722615 | GALNT11,GALNTL5,KMT2C |
| 4 | 115,350,000 | 115,500,000 | 1539 | 784 | 0.153791499 | GALNT11,KMT2C |
| 4 | 115,425,000 | 115,575,000 | 1540 | 1072 | 0.289030315 | KMT2C |
| 4 | 115,500,000 | 115,650,000 | 1541 | 910 | 0.095094095 | CCT8L2,KMT2C |
| 4 | 115,575,000 | 115,725,000 | 1542 | 890 | -0.71254641 | CCT8L2 |
| 4 | 115,650,000 | 115,800,000 | 1543 | 1139 | -1.989831352 | XRCC2 |
| 4 | 115,725,000 | 115,875,000 | 1544 | 1156 | -1.419016805 | XRCC2 |
| 4 | 115,800,000 | 115,950,000 | 1545 | 893 | -0.141432546 | XRCC2,ENSBTAG0000008032 |
| 4 | 115,875,000 | 116,025,000 | 1546 | 966 | -0.784045444 | ENSBTAG0000008032 |
| 4 | 115,950,000 | 116,100,000 | 1547 | 1186 | -0.619970556 | ENSBTAG0000008032 |
| 4 | 116,025,000 | 116,175,000 | 1548 | 1158 | 0.575601486 | |
| 4 | 116,100,000 | 116,250,000 | 1549 | 1353 | 0.360488135 | PPDPF |
| 4 | 116,175,000 | 116,325,000 | 1550 | 1227 | 0.274631543 | PPDPF |
| 4 | 116,250,000 | 116,400,000 | 1551 | 1046 | 0.425453313 | |
| 4 | 116,325,000 | 116,475,000 | 1552 | 1311 | -1.430576063 | |
| 4 | 116,400,000 | 116,550,000 | 1553 | 1664 | -1.003970995 | |
| 4 | 116,475,000 | 116,625,000 | 1554 | 1661 | 0.287900175 | |
| 4 | 116,550,000 | 116,700,000 | 1555 | 1617 | -0.665463133 | |
| 4 | 116,625,000 | 116,775,000 | 1556 | 1413 | -0.453437553 | |
| 4 | 116,700,000 | 116,850,000 | 1557 | 1013 | 0.191918786 | |
| 4 | 116,775,000 | 116,925,000 | 1558 | 688 | -0.636038393 | |
| 4 | 116,850,000 | 117,000,000 | 1559 | 1171 | -0.183746503 | |
| 4 | 116,925,000 | 117,075,000 | 1560 | 1704 | 0.976096005 | |
| 4 | 117,000,000 | 117,150,000 | 1561 | 1350 | -0.07222175 | |
| 4 | 117,075,000 | 117,225,000 | 1562 | 1321 | -0.29443109 | ENSBTAG00000047979 |
| 4 | 117,150,000 | 117,300,000 | 1563 | 1830 | 1.217187781 | ENSBTAG00000047979 |
| 4 | 117,225,000 | 117,375,000 | 1564 | 1649 | 0.764957817 | ENSBTAG00000047979 |
| 4 | 117,300,000 | 117,450,000 | 1565 | 1199 | -1.442298596 | ENSBTAG00000047979 |
| 4 | 117,375,000 | 117,525,000 | 1566 | 1123 | -2.17495788 | ENSBTAG00000047979 |
| 4 | 117,450,000 | 117,600,000 | 1567 | 1644 | -0.868168838 | DPP6 |
| 4 | 117,525,000 | 117,675,000 | 1568 | 1653 | -0.404624844 | DPP6 |
| 4 | 117,600,000 | 117,750,000 | 1569 | 1080 | 0.334234412 | DPP6,HTR5A |
| 4 | 117,675,000 | 117,825,000 | 1570 | 1017 | 0.386390123 | DPP6,HTR5A,PAXIP1 |
| 4 | 117,750,000 | 117,900,000 | 1571 | 818 | 0.144469593 | DPP6,PAXIP1 |
| 4 | 117,825,000 | 117,975,000 | 1572 | 799 | 0.357596898 | INSIG1,PAXIP1 |
| 4 | 117,900,000 | 118,050,000 | 1573 | 747 | -1.337743895 | CNPY1,EN2,INSIG1 |
| 4 | 117,975,000 | 118,125,000 | 1574 | 791 | -1.011292518 | CNPY1,EN2 |
| 4 | 118,050,000 | 118,200,000 | 1575 | 944 | -0.453591539 | RBM33 |
| 4 | 118,125,000 | 118,275,000 | 1576 | 822 | -1.793593182 | RBM33,SHH |
| 4 | 118,200,000 | 118,350,000 | 1577 | 992 | -0.404688689 | RBM33,SHH |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 4 | 118,275,000 | 118,425,000 | 1578 | 1444 | 0.292724401 | |
| 4 | 118,350,000 | 118,500,000 | 1579 | 1281 | -0.548446147 | |
| 4 | 118,425,000 | 118,575,000 | 1580 | 1219 | -0.742461035 | |
| 4 | 118,500,000 | 118,650,000 | 1581 | 1000 | -0.198871356 | |
| 4 | 118,575,000 | 118,725,000 | 1582 | 510 | -2.09210636 | |
| 4 | 118,650,000 | 118,800,000 | 1583 | 392 | -2.048088522 | |
| 4 | 118,725,000 | 118,875,000 | 1584 | 389 | -0.673743197 | |
| 4 | 118,800,000 | 118,950,000 | 1585 | 674 | -0.533165459 | LMBR1,RNF32 |
| 4 | 118,875,000 | 119,025,000 | 1586 | 610 | -0.214793155 | LMBR1,RNF32 |
| 4 | 118,950,000 | 119,100,000 | 1587 | 460 | 0.854501667 | LMBR1 |
| 4 | 119,025,000 | 119,175,000 | 1588 | 498 | 0.725040234 | LMBR1,MNX1,NOM1 |
| 4 | 119,100,000 | 119,250,000 | 1589 | 429 | 0.096023939 | MNX1,NOM1,UBE3C |
| 4 | 119,175,000 | 119,325,000 | 1590 | 448 | 0.118016803 | UBE3C |
| 4 | 119,250,000 | 119,400,000 | 1591 | 439 | 0.340056927 | UBE3C |
| 4 | 119,325,000 | 119,475,000 | 1592 | 427 | 0.826596917 | DNAJB6,UBE3C |
| 4 | 119,400,000 | 119,550,000 | 1593 | 458 | -0.228313134 | DNAJB6,PTPRN2 |
| 4 | 119,475,000 | 119,625,000 | 1594 | 572 | -1.850419021 | PTPRN2 |
| 4 | 119,550,000 | 119,700,000 | 1595 | 603 | -0.985143167 | PTPRN2 |
| 4 | 119,625,000 | 119,775,000 | 1596 | 663 | -0.323527457 | |
| 4 | 119,700,000 | 119,850,000 | 1597 | 625 | -0.569824711 | |
| 4 | 119,775,000 | 119,925,000 | 1598 | 462 | -0.921295511 | |
| 4 | 119,850,000 | 120,000,000 | 1599 | 677 | -0.949759201 | |
| 4 | 119,925,000 | 120,075,000 | 1600 | 717 | -0.844892325 | |
| 4 | 120,000,000 | 120,150,000 | 1601 | 487 | -1.221585162 | NCAPG2 |
| 4 | 120,075,000 | 120,225,000 | 1602 | 434 | -2.302813933 | NCAPG2 |
| 4 | 120,150,000 | 120,300,000 | 1603 | 481 | -1.412119641 | ESYT2,NCAPG2 |
| 4 | 120,225,000 | 120,375,000 | 1604 | 504 | -0.523135105 | ESYT2,WDR60 |
| 4 | 120,300,000 | 120,450,000 | 1605 | 499 | -1.369172708 | ESYT2,VIPR2,WDR60 |
| 4 | 120,375,000 | 120,525,000 | 1606 | 456 | -1.440179308 | VIPR2 |
| 4 | 120,450,000 | 120,600,000 | 1607 | 453 | -0.49031869 | VIPR2 |
| 4 | 120,525,000 | 120,675,000 | 1608 | 468 | -0.795827208 | |
| 4 | 120,600,000 | 120,750,000 | 1609 | 419 | -0.961645095 | |
| 4 | 120,675,000 | 120,825,000 | 1610 | 323 | -0.742027131 | |
| 4 | 120,750,000 | 120,829,699 | 1611 | 109 | -1.222290873 | |
| 5 | 0 | 150,000 | 1 | 735 | -0.661123263 | |
| 5 | 75,000 | 225,000 | 2 | 869 | -0.96475827 | |
| 5 | 150,000 | 300,000 | 3 | 1061 | -0.777736354 | ENSBTAG00000027770,ENSBTAG00000037552 |
| 5 | 225,000 | 375,000 | 4 | 1090 | -1.059779862 | ENSBTAG00000027770,ENSBTAG00000037552 |
| 5 | 300,000 | 450,000 | 5 | 934 | -0.750505808 | ENSBTAG00000027770,ENSBTAG00000038351 |
| 5 | 375,000 | 525,000 | 6 | 840 | 0.404724292 | ENSBTAG00000038351,ENSBTAG00000045542 |
| 5 | 450,000 | 600,000 | 7 | 898 | 0.493981834 | ENSBTAG00000045542 |
| 5 | 525,000 | 675,000 | 8 | 1230 | 0.791917629 | |
| 5 | 600,000 | 750,000 | 9 | 1243 | 0.877810556 | |
| 5 | 675,000 | 825,000 | 10 | 1288 | 1.012339345 | TSPAN8 |
| 5 | 750,000 | 900,000 | 11 | 1545 | 0.584963838 | TSPAN8 |
| 5 | 825,000 | 975,000 | 12 | 1393 | 0.408996447 | TSPAN8 |
| 5 | 900,000 | 1,050,000 | 13 | 1124 | 0.745660847 | |
| 5 | 975,000 | 1,125,000 | 14 | 1053 | 0.615711718 | LGR5 |
| 5 | 1,050,000 | 1,200,000 | 15 | 998 | 0.153602589 | LGR5 |
| 5 | 1,125,000 | 1,275,000 | 16 | 692 | -0.34403956 | LGR5,ZFC3H1 |
| 5 | 1,200,000 | 1,350,000 | 17 | 925 | 0.077799042 | LGR5,THAP2,TMEM19,ZFC3H1 |
| 5 | 1,275,000 | 1,425,000 | 18 | 1078 | 0.318041004 | THAP2,TMEM19,ZFC3H1 |
| 5 | 1,350,000 | 1,500,000 | 19 | 921 | 0.468843326 | TBC1D15 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|-------------------------|
| 5 | 1,425,000 | 1,575,000 | 20 | 930 | 0.715007764 | TBC1D15,TPH2 |
| 5 | 1,500,000 | 1,650,000 | 21 | 936 | 0.510197041 | TBC1D15,TPH2 |
| 5 | 1,575,000 | 1,725,000 | 22 | 1299 | 0.554190719 | TPH2 |
| 5 | 1,650,000 | 1,800,000 | 23 | 1219 | 0.676458298 | |
| 5 | 1,725,000 | 1,875,000 | 24 | 949 | 0.615917008 | |
| 5 | 1,800,000 | 1,950,000 | 25 | 1130 | 0.578501141 | TRHDE |
| 5 | 1,875,000 | 2,025,000 | 26 | 1219 | 0.209523462 | TRHDE |
| 5 | 1,950,000 | 2,100,000 | 27 | 1442 | -0.51621794 | TRHDE |
| 5 | 2,025,000 | 2,175,000 | 28 | 1471 | -0.626121855 | TRHDE |
| 5 | 2,100,000 | 2,250,000 | 29 | 1155 | -0.171007685 | TRHDE |
| 5 | 2,175,000 | 2,325,000 | 30 | 891 | 0.861108341 | TRHDE |
| 5 | 2,250,000 | 2,400,000 | 31 | 810 | 0.866010667 | TRHDE |
| 5 | 2,325,000 | 2,475,000 | 32 | 819 | 0.52022846 | TRHDE |
| 5 | 2,400,000 | 2,550,000 | 33 | 962 | 0.495491335 | |
| 5 | 2,475,000 | 2,625,000 | 34 | 901 | 0.480327228 | |
| 5 | 2,550,000 | 2,700,000 | 35 | 863 | -0.478964769 | |
| 5 | 2,625,000 | 2,775,000 | 36 | 988 | -0.717757593 | |
| 5 | 2,700,000 | 2,850,000 | 37 | 1019 | 0.378721649 | |
| 5 | 2,775,000 | 2,925,000 | 38 | 1378 | 0.399720429 | |
| 5 | 2,850,000 | 3,000,000 | 39 | 1266 | -0.557847753 | |
| 5 | 2,925,000 | 3,075,000 | 40 | 757 | -1.096558589 | |
| 5 | 3,000,000 | 3,150,000 | 41 | 560 | 0.26964736 | |
| 5 | 3,075,000 | 3,225,000 | 42 | 695 | 0.732217579 | |
| 5 | 3,150,000 | 3,300,000 | 43 | 842 | -0.011656989 | |
| 5 | 3,225,000 | 3,375,000 | 44 | 949 | -1.047870879 | |
| 5 | 3,300,000 | 3,450,000 | 45 | 891 | -1.410327 | |
| 5 | 3,375,000 | 3,525,000 | 46 | 972 | 0.492650106 | |
| 5 | 3,450,000 | 3,600,000 | 47 | 1046 | 1.306826331 | |
| 5 | 3,525,000 | 3,675,000 | 48 | 930 | 1.237512575 | |
| 5 | 3,600,000 | 3,750,000 | 49 | 867 | 0.257600273 | |
| 5 | 3,675,000 | 3,825,000 | 50 | 1252 | 0.138907975 | |
| 5 | 3,750,000 | 3,900,000 | 51 | 1571 | 0.75619198 | |
| 5 | 3,825,000 | 3,975,000 | 52 | 1082 | 1.08235983 | |
| 5 | 3,900,000 | 4,050,000 | 53 | 1078 | 0.540440331 | ATXN7L3B |
| 5 | 3,975,000 | 4,125,000 | 54 | 1499 | 0.539960974 | ATXN7L3B |
| 5 | 4,050,000 | 4,200,000 | 55 | 1460 | 0.778116506 | ATXN7L3B |
| 5 | 4,125,000 | 4,275,000 | 56 | 1092 | 0.533046207 | |
| 5 | 4,200,000 | 4,350,000 | 57 | 1174 | 0.403930867 | |
| 5 | 4,275,000 | 4,425,000 | 58 | 1505 | -0.327662778 | |
| 5 | 4,350,000 | 4,500,000 | 59 | 1542 | -1.007605832 | |
| 5 | 4,425,000 | 4,575,000 | 60 | 1413 | -0.339875599 | |
| 5 | 4,500,000 | 4,650,000 | 61 | 1296 | 0.064208928 | |
| 5 | 4,575,000 | 4,725,000 | 62 | 1184 | -0.187211641 | |
| 5 | 4,650,000 | 4,800,000 | 63 | 1091 | -0.314243919 | CAPS2 |
| 5 | 4,725,000 | 4,875,000 | 64 | 1324 | 0.724490011 | CAPS2,GLIPR1L1 |
| 5 | 4,800,000 | 4,950,000 | 65 | 1485 | 0.74430147 | CAPS2,GLIPR1L1,GLIPR1L2 |
| 5 | 4,875,000 | 5,025,000 | 66 | 1335 | 0.322415723 | GLIPR1,GLIPR1L2,KRR1 |
| 5 | 4,950,000 | 5,100,000 | 67 | 878 | 0.427229184 | GLIPR1,KRR1 |
| 5 | 5,025,000 | 5,175,000 | 68 | 964 | -0.756524881 | KRR1 |
| 5 | 5,100,000 | 5,250,000 | 69 | 1575 | -0.791681245 | |
| 5 | 5,175,000 | 5,325,000 | 70 | 1309 | -0.430257292 | |
| 5 | 5,250,000 | 5,400,000 | 71 | 770 | 0.298886942 | |
| 5 | 5,325,000 | 5,475,000 | 72 | 664 | -0.097514184 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|---------------|
| 5 | 5,400,000 | 5,550,000 | 73 | 940 | -0.458395722 | |
| 5 | 5,475,000 | 5,625,000 | 74 | 866 | -0.36949235 | NAP1L1,PHLDA1 |
| 5 | 5,550,000 | 5,700,000 | 75 | 563 | 0.034653606 | NAP1L1,PHLDA1 |
| 5 | 5,625,000 | 5,775,000 | 76 | 825 | 0.21409954 | |
| 5 | 5,700,000 | 5,850,000 | 77 | 844 | 0.587429595 | BBS10,OSBPL8 |
| 5 | 5,775,000 | 5,925,000 | 78 | 657 | 0.804955481 | BBS10,OSBPL8 |
| 5 | 5,850,000 | 6,000,000 | 79 | 872 | 0.675716216 | OSBPL8 |
| 5 | 5,925,000 | 6,075,000 | 80 | 955 | 0.568266103 | |
| 5 | 6,000,000 | 6,150,000 | 81 | 727 | 0.040114699 | |
| 5 | 6,075,000 | 6,225,000 | 82 | 606 | -0.119386931 | ZDHHC17 |
| 5 | 6,150,000 | 6,300,000 | 83 | 805 | -0.500380185 | CSRP2,ZDHHC17 |
| 5 | 6,225,000 | 6,375,000 | 84 | 968 | -0.402306052 | CSRP2,ZDHHC17 |
| 5 | 6,300,000 | 6,450,000 | 85 | 722 | 0.02370782 | E2F7 |
| 5 | 6,375,000 | 6,525,000 | 86 | 572 | -0.024274283 | E2F7 |
| 5 | 6,450,000 | 6,600,000 | 87 | 765 | -0.477613914 | E2F7 |
| 5 | 6,525,000 | 6,675,000 | 88 | 860 | -1.568591829 | |
| 5 | 6,600,000 | 6,750,000 | 89 | 806 | -2.20094327 | |
| 5 | 6,675,000 | 6,825,000 | 90 | 691 | -1.365224092 | |
| 5 | 6,750,000 | 6,900,000 | 91 | 810 | 0.170788711 | |
| 5 | 6,825,000 | 6,975,000 | 92 | 1233 | 0.198459267 | |
| 5 | 6,900,000 | 7,050,000 | 93 | 1534 | 0.05467299 | |
| 5 | 6,975,000 | 7,125,000 | 94 | 1360 | 0.025737944 | |
| 5 | 7,050,000 | 7,200,000 | 95 | 941 | 0.011647084 | |
| 5 | 7,125,000 | 7,275,000 | 96 | 855 | 0.231931974 | |
| 5 | 7,200,000 | 7,350,000 | 97 | 743 | -0.03726227 | |
| 5 | 7,275,000 | 7,425,000 | 98 | 582 | -1.250239044 | NAV3 |
| 5 | 7,350,000 | 7,500,000 | 99 | 536 | -0.343128767 | NAV3 |
| 5 | 7,425,000 | 7,575,000 | 100 | 657 | 0.36938583 | NAV3 |
| 5 | 7,500,000 | 7,650,000 | 101 | 768 | -0.484054934 | NAV3 |
| 5 | 7,575,000 | 7,725,000 | 102 | 895 | -1.445710401 | NAV3 |
| 5 | 7,650,000 | 7,800,000 | 103 | 1275 | -0.847625669 | NAV3 |
| 5 | 7,725,000 | 7,875,000 | 104 | 1600 | -0.655408306 | |
| 5 | 7,800,000 | 7,950,000 | 105 | 1423 | -0.111047576 | |
| 5 | 7,875,000 | 8,025,000 | 106 | 1125 | -0.51544401 | |
| 5 | 7,950,000 | 8,100,000 | 107 | 1285 | -0.509768131 | |
| 5 | 8,025,000 | 8,175,000 | 108 | 1348 | -0.165171663 | |
| 5 | 8,100,000 | 8,250,000 | 109 | 1432 | 0.020379175 | |
| 5 | 8,175,000 | 8,325,000 | 110 | 1486 | 0.649422638 | |
| 5 | 8,250,000 | 8,400,000 | 111 | 1003 | 0.564918249 | |
| 5 | 8,325,000 | 8,475,000 | 112 | 726 | 0.150488255 | |
| 5 | 8,400,000 | 8,550,000 | 113 | 1008 | 0.172503533 | |
| 5 | 8,475,000 | 8,625,000 | 114 | 1174 | 0.131069736 | |
| 5 | 8,550,000 | 8,700,000 | 115 | 1024 | 0.361553785 | |
| 5 | 8,625,000 | 8,775,000 | 116 | 974 | 0.178431692 | |
| 5 | 8,700,000 | 8,850,000 | 117 | 864 | -0.656046975 | SYT1 |
| 5 | 8,775,000 | 8,925,000 | 118 | 893 | -1.030738177 | SYT1 |
| 5 | 8,850,000 | 9,000,000 | 119 | 1188 | 0.363867063 | SYT1 |
| 5 | 8,925,000 | 9,075,000 | 120 | 937 | 0.698735976 | SYT1 |
| 5 | 9,000,000 | 9,150,000 | 121 | 809 | -0.09625499 | SYT1 |
| 5 | 9,075,000 | 9,225,000 | 122 | 743 | -0.184020981 | PAWR |
| 5 | 9,150,000 | 9,300,000 | 123 | 370 | 0.574370797 | PAWR |
| 5 | 9,225,000 | 9,375,000 | 124 | 428 | 0.258769408 | PPP1R12A |
| 5 | 9,300,000 | 9,450,000 | 125 | 585 | -1.526807294 | PPP1R12A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 5 | 9,375,000 | 9,525,000 | 126 | 651 | -2.882920223 | PPP1R12A |
| 5 | 9,450,000 | 9,600,000 | 127 | 649 | -1.151343157 | PPP1R12A |
| 5 | 9,525,000 | 9,675,000 | 128 | 471 | 1.168712923 | |
| 5 | 9,600,000 | 9,750,000 | 129 | 454 | 1.047445026 | |
| 5 | 9,675,000 | 9,825,000 | 130 | 860 | -0.068043832 | OTOGL |
| 5 | 9,750,000 | 9,900,000 | 131 | 1131 | 0.136273328 | OTOGL |
| 5 | 9,825,000 | 9,975,000 | 132 | 1046 | 0.586586351 | OTOGL |
| 5 | 9,900,000 | 10,050,000 | 133 | 991 | 0.490000377 | OTOGL |
| 5 | 9,975,000 | 10,125,000 | 134 | 1071 | 0.177586447 | PTPRQ |
| 5 | 10,050,000 | 10,200,000 | 135 | 1220 | -0.016138419 | PTPRQ |
| 5 | 10,125,000 | 10,275,000 | 136 | 1226 | 0.309430135 | PTPRQ |
| 5 | 10,200,000 | 10,350,000 | 137 | 815 | 0.484720343 | MYF5,MYF6,PTPRQ |
| 5 | 10,275,000 | 10,425,000 | 138 | 638 | 0.734818227 | LIN7A,MYF5,MYF6,PTPRQ |
| 5 | 10,350,000 | 10,500,000 | 139 | 715 | -0.060351118 | LIN7A |
| 5 | 10,425,000 | 10,575,000 | 140 | 728 | -0.474444764 | LIN7A |
| 5 | 10,500,000 | 10,650,000 | 141 | 1014 | 0.075975599 | LIN7A |
| 5 | 10,575,000 | 10,725,000 | 142 | 1186 | -0.16497689 | |
| 5 | 10,650,000 | 10,800,000 | 143 | 1257 | -0.17703867 | ACSS3 |
| 5 | 10,725,000 | 10,875,000 | 144 | 1261 | -0.032268602 | ACSS3 |
| 5 | 10,800,000 | 10,950,000 | 145 | 807 | -0.504298837 | ACSS3,PPFIA2 |
| 5 | 10,875,000 | 11,025,000 | 146 | 574 | 0.025060463 | ACSS3,PPFIA2 |
| 5 | 10,950,000 | 11,100,000 | 147 | 844 | -0.245830472 | PPFIA2 |
| 5 | 11,025,000 | 11,175,000 | 148 | 1193 | -0.082940065 | PPFIA2 |
| 5 | 11,100,000 | 11,250,000 | 149 | 1109 | -0.078237047 | PPFIA2 |
| 5 | 11,175,000 | 11,325,000 | 150 | 1298 | -1.294953041 | TMA7 |
| 5 | 11,250,000 | 11,400,000 | 151 | 1350 | -1.411964299 | TMA7 |
| 5 | 11,325,000 | 11,475,000 | 152 | 1115 | 0.296507303 | |
| 5 | 11,400,000 | 11,550,000 | 153 | 1317 | 0.213037206 | |
| 5 | 11,475,000 | 11,625,000 | 154 | 1293 | -0.560579315 | |
| 5 | 11,550,000 | 11,700,000 | 155 | 1085 | -1.015735434 | |
| 5 | 11,625,000 | 11,775,000 | 156 | 1104 | -1.112762922 | |
| 5 | 11,700,000 | 11,850,000 | 157 | 1442 | -0.20038485 | |
| 5 | 11,775,000 | 11,925,000 | 158 | 1201 | -0.246028216 | |
| 5 | 11,850,000 | 12,000,000 | 159 | 896 | -0.113151708 | CCDC59,METTL25 |
| 5 | 11,925,000 | 12,075,000 | 160 | 1008 | 0.352243308 | CCDC59,METTL25 |
| 5 | 12,000,000 | 12,150,000 | 161 | 950 | 0.552739924 | METTL25 |
| 5 | 12,075,000 | 12,225,000 | 162 | 1182 | 0.987566487 | METTL25 |
| 5 | 12,150,000 | 12,300,000 | 163 | 1155 | 1.199239126 | |
| 5 | 12,225,000 | 12,375,000 | 164 | 757 | 0.96795712 | |
| 5 | 12,300,000 | 12,450,000 | 165 | 967 | 0.867776408 | |
| 5 | 12,375,000 | 12,525,000 | 166 | 1217 | 1.040512289 | TMTC2 |
| 5 | 12,450,000 | 12,600,000 | 167 | 947 | 0.448775108 | TMTC2 |
| 5 | 12,525,000 | 12,675,000 | 168 | 957 | -3.38809021 | TMTC2 |
| 5 | 12,600,000 | 12,750,000 | 169 | 1001 | -4.358904301 | |
| 5 | 12,675,000 | 12,825,000 | 170 | 918 | -2.708505432 | |
| 5 | 12,750,000 | 12,900,000 | 171 | 907 | -1.03773229 | |
| 5 | 12,825,000 | 12,975,000 | 172 | 608 | 0.355471516 | |
| 5 | 12,900,000 | 13,050,000 | 173 | 693 | -0.962665614 | |
| 5 | 12,975,000 | 13,125,000 | 174 | 1143 | -2.028697954 | |
| 5 | 13,050,000 | 13,200,000 | 175 | 1272 | -1.266270414 | |
| 5 | 13,125,000 | 13,275,000 | 176 | 1236 | -0.592563087 | |
| 5 | 13,200,000 | 13,350,000 | 177 | 1347 | 0.052608976 | |
| 5 | 13,275,000 | 13,425,000 | 178 | 1123 | 0.960108632 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------|
| 5 | 13,350,000 | 13,500,000 | 179 | 893 | 0.726244855 | |
| 5 | 13,425,000 | 13,575,000 | 180 | 1180 | 0.125214431 | |
| 5 | 13,500,000 | 13,650,000 | 181 | 1335 | 0.201378924 | |
| 5 | 13,575,000 | 13,725,000 | 182 | 925 | 0.518738994 | |
| 5 | 13,650,000 | 13,800,000 | 183 | 635 | 0.698903893 | |
| 5 | 13,725,000 | 13,875,000 | 184 | 597 | 1.056428608 | |
| 5 | 13,800,000 | 13,950,000 | 185 | 494 | 0.848137419 | |
| 5 | 13,875,000 | 14,025,000 | 186 | 470 | 0.465437382 | |
| 5 | 13,950,000 | 14,100,000 | 187 | 493 | -0.146438139 | |
| 5 | 14,025,000 | 14,175,000 | 188 | 904 | 0.247309376 | |
| 5 | 14,100,000 | 14,250,000 | 189 | 1093 | 0.035111246 | |
| 5 | 14,175,000 | 14,325,000 | 190 | 705 | -0.849068409 | |
| 5 | 14,250,000 | 14,400,000 | 191 | 688 | -0.878835504 | |
| 5 | 14,325,000 | 14,475,000 | 192 | 823 | 0.022466125 | |
| 5 | 14,400,000 | 14,550,000 | 193 | 845 | 0.358544581 | |
| 5 | 14,475,000 | 14,625,000 | 194 | 784 | -0.145485508 | SLC6A15 |
| 5 | 14,550,000 | 14,700,000 | 195 | 553 | -0.173242653 | SLC6A15 |
| 5 | 14,625,000 | 14,775,000 | 196 | 460 | 0.321559585 | LRRIQ1,TSPAN19 |
| 5 | 14,700,000 | 14,850,000 | 197 | 549 | -0.16373587 | LRRIQ1,TSPAN19 |
| 5 | 14,775,000 | 14,925,000 | 198 | 544 | -0.173527473 | LRRIQ1 |
| 5 | 14,850,000 | 15,000,000 | 199 | 457 | -0.743468256 | ALX1,LRRIQ1 |
| 5 | 14,925,000 | 15,075,000 | 200 | 746 | -1.494001464 | ALX1,LRRIQ1 |
| 5 | 15,000,000 | 15,150,000 | 201 | 882 | -1.206773221 | ALX1 |
| 5 | 15,075,000 | 15,225,000 | 202 | 731 | -2.586300881 | |
| 5 | 15,150,000 | 15,300,000 | 203 | 1000 | -1.699077465 | |
| 5 | 15,225,000 | 15,375,000 | 204 | 1002 | 0.109390139 | |
| 5 | 15,300,000 | 15,450,000 | 205 | 821 | -1.564354135 | |
| 5 | 15,375,000 | 15,525,000 | 206 | 1124 | -0.56176225 | |
| 5 | 15,450,000 | 15,600,000 | 207 | 1140 | -2.604364471 | RASSF9 |
| 5 | 15,525,000 | 15,675,000 | 208 | 1368 | -1.717415294 | NTS,RASSF9 |
| 5 | 15,600,000 | 15,750,000 | 209 | 1721 | -0.518337577 | MGAT4C,NTS |
| 5 | 15,675,000 | 15,825,000 | 210 | 1183 | -1.93316643 | MGAT4C |
| 5 | 15,750,000 | 15,900,000 | 211 | 1007 | 0.395938833 | MGAT4C |
| 5 | 15,825,000 | 15,975,000 | 212 | 1355 | -2.530804418 | |
| 5 | 15,900,000 | 16,050,000 | 213 | 1366 | -3.640035417 | |
| 5 | 15,975,000 | 16,125,000 | 214 | 997 | -1.655163109 | |
| 5 | 16,050,000 | 16,200,000 | 215 | 735 | 1.206756929 | |
| 5 | 16,125,000 | 16,275,000 | 216 | 916 | 0.947892001 | |
| 5 | 16,200,000 | 16,350,000 | 217 | 1088 | 0.492452025 | |
| 5 | 16,275,000 | 16,425,000 | 218 | 931 | 0.17996664 | |
| 5 | 16,350,000 | 16,500,000 | 219 | 734 | -0.280337391 | |
| 5 | 16,425,000 | 16,575,000 | 220 | 974 | -0.026324131 | |
| 5 | 16,500,000 | 16,650,000 | 221 | 1093 | 0.114763258 | |
| 5 | 16,575,000 | 16,725,000 | 222 | 1029 | -0.025203826 | |
| 5 | 16,650,000 | 16,800,000 | 223 | 1298 | 0.173305248 | |
| 5 | 16,725,000 | 16,875,000 | 224 | 1588 | 0.511397607 | |
| 5 | 16,800,000 | 16,950,000 | 225 | 1731 | 0.945289765 | |
| 5 | 16,875,000 | 17,025,000 | 226 | 1541 | 0.846823034 | |
| 5 | 16,950,000 | 17,100,000 | 227 | 1479 | 0.428595632 | |
| 5 | 17,025,000 | 17,175,000 | 228 | 1094 | 0.139095452 | |
| 5 | 17,100,000 | 17,250,000 | 229 | 1043 | -0.063547316 | |
| 5 | 17,175,000 | 17,325,000 | 230 | 1660 | 0.410603942 | |
| 5 | 17,250,000 | 17,400,000 | 231 | 1692 | 0.689008467 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 5 | 17,325,000 | 17,475,000 | 232 | 1232 | 0.754782761 | |
| 5 | 17,400,000 | 17,550,000 | 233 | 1132 | 0.907668662 | |
| 5 | 17,475,000 | 17,625,000 | 234 | 1439 | 1.303624968 | |
| 5 | 17,550,000 | 17,700,000 | 235 | 850 | 1.324085015 | |
| 5 | 17,625,000 | 17,775,000 | 236 | 437 | 0.848287309 | |
| 5 | 17,700,000 | 17,850,000 | 237 | 603 | 0.356359787 | |
| 5 | 17,775,000 | 17,925,000 | 238 | 441 | -0.20799734 | C12orf50,C5H12orf29,CEP290 |
| 5 | 17,850,000 | 18,000,000 | 239 | 286 | 0.813984927 | C12orf50,C5H12orf29,CEP290 |
| 5 | 17,925,000 | 18,075,000 | 240 | 260 | -0.293963733 | CEP290,TMTC3 |
| 5 | 18,000,000 | 18,150,000 | 241 | 333 | -1.407306213 | TMTC3 |
| 5 | 18,075,000 | 18,225,000 | 242 | 532 | 0.319759023 | |
| 5 | 18,150,000 | 18,300,000 | 243 | 676 | 0.551017559 | |
| 5 | 18,225,000 | 18,375,000 | 244 | 492 | -0.46604248 | KITLG |
| 5 | 18,300,000 | 18,450,000 | 245 | 313 | -0.836473476 | KITLG |
| 5 | 18,375,000 | 18,525,000 | 246 | 501 | 0.34297475 | KITLG |
| 5 | 18,450,000 | 18,600,000 | 247 | 708 | 0.802454832 | |
| 5 | 18,525,000 | 18,675,000 | 248 | 812 | 0.917051907 | |
| 5 | 18,600,000 | 18,750,000 | 249 | 684 | 0.715286228 | |
| 5 | 18,675,000 | 18,825,000 | 250 | 423 | 0.710760823 | |
| 5 | 18,750,000 | 18,900,000 | 251 | 376 | 1.135876065 | |
| 5 | 18,825,000 | 18,975,000 | 252 | 565 | 1.016933426 | |
| 5 | 18,900,000 | 19,050,000 | 253 | 797 | 1.068557885 | |
| 5 | 18,975,000 | 19,125,000 | 254 | 748 | 1.110368091 | |
| 5 | 19,050,000 | 19,200,000 | 255 | 423 | 0.73512078 | |
| 5 | 19,125,000 | 19,275,000 | 256 | 275 | 0.086228283 | |
| 5 | 19,200,000 | 19,350,000 | 257 | 403 | 0.109366619 | DUSP6 |
| 5 | 19,275,000 | 19,425,000 | 258 | 616 | 0.81875596 | DUSP6,WDR51B |
| 5 | 19,350,000 | 19,500,000 | 259 | 745 | -0.003041764 | WDR51B |
| 5 | 19,425,000 | 19,575,000 | 260 | 836 | -1.172616174 | ATP2B1,WDR51B |
| 5 | 19,500,000 | 19,650,000 | 261 | 1102 | -0.728669178 | ATP2B1 |
| 5 | 19,575,000 | 19,725,000 | 262 | 1062 | -0.626455995 | ATP2B1 |
| 5 | 19,650,000 | 19,800,000 | 263 | 1002 | -0.442160451 | ATP2B1 |
| 5 | 19,725,000 | 19,875,000 | 264 | 1150 | -0.022452314 | |
| 5 | 19,800,000 | 19,950,000 | 265 | 788 | 0.141617489 | |
| 5 | 19,875,000 | 20,025,000 | 266 | 452 | 0.538917181 | |
| 5 | 19,950,000 | 20,100,000 | 267 | 615 | 1.212360128 | |
| 5 | 20,025,000 | 20,175,000 | 268 | 918 | 0.98046209 | |
| 5 | 20,100,000 | 20,250,000 | 269 | 1249 | 0.370383718 | |
| 5 | 20,175,000 | 20,325,000 | 270 | 1400 | -0.092773049 | |
| 5 | 20,250,000 | 20,400,000 | 271 | 1152 | 0.580010674 | |
| 5 | 20,325,000 | 20,475,000 | 272 | 878 | 1.268626103 | |
| 5 | 20,400,000 | 20,550,000 | 273 | 640 | 1.018141502 | |
| 5 | 20,475,000 | 20,625,000 | 274 | 720 | 0.772273383 | |
| 5 | 20,550,000 | 20,700,000 | 275 | 917 | -0.340850276 | |
| 5 | 20,625,000 | 20,775,000 | 276 | 1134 | -0.466367884 | |
| 5 | 20,700,000 | 20,850,000 | 277 | 932 | -0.04998015 | |
| 5 | 20,775,000 | 20,925,000 | 278 | 713 | 0.167366113 | CCER1,EPYC |
| 5 | 20,850,000 | 21,000,000 | 279 | 877 | 0.752406408 | CCER1,EPYC,KERA |
| 5 | 20,925,000 | 21,075,000 | 280 | 1012 | 0.459795448 | EPYC,KERA,LUM |
| 5 | 21,000,000 | 21,150,000 | 281 | 1004 | 0.003493759 | DCN,KERA,LUM |
| 5 | 21,075,000 | 21,225,000 | 282 | 910 | -0.36040859 | DCN |
| 5 | 21,150,000 | 21,300,000 | 283 | 736 | -0.308011752 | |
| 5 | 21,225,000 | 21,375,000 | 284 | 579 | -0.683074508 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 5 | 21,300,000 | 21,450,000 | 285 | 584 | -1.77596254 | |
| 5 | 21,375,000 | 21,525,000 | 286 | 519 | -0.937829205 | |
| 5 | 21,450,000 | 21,600,000 | 287 | 681 | 0.20162199 | |
| 5 | 21,525,000 | 21,675,000 | 288 | 709 | -0.665567879 | |
| 5 | 21,600,000 | 21,750,000 | 289 | 930 | -0.453008543 | |
| 5 | 21,675,000 | 21,825,000 | 290 | 937 | -0.703644442 | |
| 5 | 21,750,000 | 21,900,000 | 291 | 712 | -3.091616986 | |
| 5 | 21,825,000 | 21,975,000 | 292 | 874 | -1.149354615 | |
| 5 | 21,900,000 | 22,050,000 | 293 | 968 | -0.43860309 | |
| 5 | 21,975,000 | 22,125,000 | 294 | 856 | -1.204516686 | BTG1 |
| 5 | 22,050,000 | 22,200,000 | 295 | 999 | 0.235778808 | BTG1 |
| 5 | 22,125,000 | 22,275,000 | 296 | 882 | 0.296379489 | |
| 5 | 22,200,000 | 22,350,000 | 297 | 775 | 0.261725007 | ENSBTAG00000033600 |
| 5 | 22,275,000 | 22,425,000 | 298 | 920 | 0.23478621 | ENSBTAG00000033600 |
| 5 | 22,350,000 | 22,500,000 | 299 | 888 | 0.166734409 | |
| 5 | 22,425,000 | 22,575,000 | 300 | 497 | 0.2608285 | |
| 5 | 22,500,000 | 22,650,000 | 301 | 461 | -0.224793415 | |
| 5 | 22,575,000 | 22,725,000 | 302 | 1238 | 0.089828688 | C12orf74 |
| 5 | 22,650,000 | 22,800,000 | 303 | 1225 | 0.378898643 | C12orf74,PLEKHG7 |
| 5 | 22,725,000 | 22,875,000 | 304 | 792 | 0.973318174 | EEA1,PLEKHG7 |
| 5 | 22,800,000 | 22,950,000 | 305 | 722 | 0.457340319 | EEA1 |
| 5 | 22,875,000 | 23,025,000 | 306 | 569 | 0.019899603 | EEA1 |
| 5 | 22,950,000 | 23,100,000 | 307 | 667 | 0.706959186 | |
| 5 | 23,025,000 | 23,175,000 | 308 | 1027 | 0.207144263 | |
| 5 | 23,100,000 | 23,250,000 | 309 | 1038 | -0.396488117 | |
| 5 | 23,175,000 | 23,325,000 | 310 | 782 | -1.601030564 | |
| 5 | 23,250,000 | 23,400,000 | 311 | 458 | -2.214414914 | NUDT4,UBE2N,ENSBTAG00000033531 |
| 5 | 23,325,000 | 23,475,000 | 312 | 445 | 0.026204258 | MRPL42,NUDT4,UBE2N,ENSBTAG00000033531 |
| 5 | 23,400,000 | 23,550,000 | 313 | 512 | 0.526588435 | MRPL42,SOCS2,UBE2N |
| 5 | 23,475,000 | 23,625,000 | 314 | 502 | 0.748052365 | SOCS2 |
| 5 | 23,550,000 | 23,700,000 | 315 | 497 | 0.745629961 | CRADD |
| 5 | 23,625,000 | 23,775,000 | 316 | 562 | 0.091278581 | CRADD |
| 5 | 23,700,000 | 23,850,000 | 317 | 831 | 0.418968641 | |
| 5 | 23,775,000 | 23,925,000 | 318 | 690 | 0.47146808 | |
| 5 | 23,850,000 | 24,000,000 | 319 | 636 | -0.44161295 | |
| 5 | 23,925,000 | 24,075,000 | 320 | 751 | -1.06874926 | PLXNC1 |
| 5 | 24,000,000 | 24,150,000 | 321 | 778 | -0.558680554 | PLXNC1 |
| 5 | 24,075,000 | 24,225,000 | 322 | 684 | 0.532158741 | PLXNC1 |
| 5 | 24,150,000 | 24,300,000 | 323 | 434 | 0.086871588 | CEP83,PLXNC1 |
| 5 | 24,225,000 | 24,375,000 | 324 | 310 | 0.188673369 | CEP83 |
| 5 | 24,300,000 | 24,450,000 | 325 | 732 | 1.068320849 | CEP83 |
| 5 | 24,375,000 | 24,525,000 | 326 | 1210 | 0.791611409 | TMCC3 |
| 5 | 24,450,000 | 24,600,000 | 327 | 1147 | -0.27358351 | TMCC3 |
| 5 | 24,525,000 | 24,675,000 | 328 | 1528 | -0.530370424 | TMCC3 |
| 5 | 24,600,000 | 24,750,000 | 329 | 1936 | -0.786251722 | |
| 5 | 24,675,000 | 24,825,000 | 330 | 1545 | -0.66832726 | |
| 5 | 24,750,000 | 24,900,000 | 331 | 1401 | 0.552084462 | NDUFA12,NR2C1 |
| 5 | 24,825,000 | 24,975,000 | 332 | 1188 | 0.661422535 | FGD6,NDUFA12,NR2C1 |
| 5 | 24,900,000 | 25,050,000 | 333 | 889 | 0.950133011 | FGD6,NR2C1 |
| 5 | 24,975,000 | 25,125,000 | 334 | 1090 | 1.376930746 | FGD6,VEZT |
| 5 | 25,050,000 | 25,200,000 | 335 | 1381 | 1.244253434 | VEZT |
| 5 | 25,125,000 | 25,275,000 | 336 | 1247 | 0.744004339 | METAP2 |
| 5 | 25,200,000 | 25,350,000 | 337 | 824 | 0.394362885 | METAP2,USP44,ENSBTAG00000010711 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 25,275,000 | 25,425,000 | 338 | 658 | 0.293984024 | METAP2,USP44,ENSBTAG00000010711,ENSBTAG0000023670 |
| 5 | 25,350,000 | 25,500,000 | 339 | 751 | -0.373413332 | ENSBTAG00000023670 |
| 5 | 25,425,000 | 25,575,000 | 340 | 829 | 0.104948365 | |
| 5 | 25,500,000 | 25,650,000 | 341 | 669 | 0.269178096 | GLYCAM1,PDE1B,PPP1R1A |
| 5 | 25,575,000 | 25,725,000 | 342 | 729 | -0.527018394 | GLYCAM1,NCKAP1L,PDE1B,PPP1R1A |
| 5 | 25,650,000 | 25,800,000 | 343 | 743 | -1.399399924 | GTSF1,ITGA5,NCKAP1L,PDE1B |
| 5 | 25,725,000 | 25,875,000 | 344 | 595 | -2.465126495 | COPZ1,GPR84,GTSF1,ITGA5,ZNF385A |
| 5 | 25,800,000 | 25,950,000 | 345 | 734 | -1.124273168 | CBX5,COPZ1,GPR84,HNRNPA1,NFE2,ZNF385A |
| 5 | 25,875,000 | 26,025,000 | 346 | 737 | -0.355049002 | CBX5,HNRNPA1,NFE2,SMUG1 |
| 5 | 25,950,000 | 26,100,000 | 347 | 574 | -0.679093566 | CBX5,SMUG1 |
| 5 | 26,025,000 | 26,175,000 | 348 | 470 | -0.277058469 | HOXC4,HOXC5,HOXC6 |
| 5 | 26,100,000 | 26,250,000 | 349 | 232 | 0.811417002 | HOXC10,HOXC11,HOXC12,HOXC13,HOXC4,HOXC5,HOXC6,HOXC8,HOXC9 |
| 5 | 26,175,000 | 26,325,000 | 350 | 275 | 1.450010861 | HOXC10,HOXC11,HOXC12,HOXC13,HOXC8,HOXC9 |
| 5 | 26,250,000 | 26,400,000 | 351 | 393 | 1.175315039 | HOXC13 |
| 5 | 26,325,000 | 26,475,000 | 352 | 391 | -1.653820508 | |
| 5 | 26,400,000 | 26,550,000 | 353 | 380 | -1.936682256 | ATP5G2,CALCOCO1 |
| 5 | 26,475,000 | 26,625,000 | 354 | 411 | -0.300848827 | ATP5G2,CALCOCO1,ENSBTAG00000005863 |
| 5 | 26,550,000 | 26,700,000 | 355 | 391 | -0.070310931 | MAP3K12,NPFF,TARBP2,ENSBTAG00000005863 |
| 5 | 26,625,000 | 26,775,000 | 356 | 283 | -4.20059635 | AMHR2,MAP3K12,NPFF,PCBP2,PRR13,SP1,TARBP2,ENSBTAG00000005863 |
| 5 | 26,700,000 | 26,850,000 | 357 | 276 | -4.202684272 | AMHR2,MAP3K12,PCBP2,PRR13,SP1,SP7 |
| 5 | 26,775,000 | 26,925,000 | 358 | 238 | -0.045756732 | AAAS,C5H12orf10,ESPL1,MFSD5,PFDN5,SP1,SP7 |
| 5 | 26,850,000 | 27,000,000 | 359 | 241 | -0.438410053 | AAAS,C5H12orf10,CSAD,ESPL1,ITGB7,MFSD5,PFDN5,RARG,SP7,ZNF740 |
| 5 | 26,925,000 | 27,075,000 | 360 | 311 | 0.261529064 | CSAD,IGFBP6,ITGB7,RARG,SOAT2,SPRYD3,TENC1,ZNF740 |
| 5 | 27,000,000 | 27,150,000 | 361 | 261 | 0.01531053 | CSAD,EIF4B,IGFBP6,SOAT2,SPRYD3,TENC1 |
| 5 | 27,075,000 | 27,225,000 | 362 | 449 | -1.071248723 | EIF4B,KRT18,KRT8,TENC1 |
| 5 | 27,150,000 | 27,300,000 | 363 | 1090 | 0.284466652 | KRT18,KRT4,KRT78,KRT79,KRT8 |
| 5 | 27,225,000 | 27,375,000 | 364 | 1605 | 0.840716353 | KRT3,KRT4,KRT78,KRT79,ENSBTAG00000027974 |
| 5 | 27,300,000 | 27,450,000 | 365 | 1441 | 0.962442996 | KRT1,KRT2,KRT3,KRT73,KRT77,ENSBTAG00000027974 |
| 5 | 27,375,000 | 27,525,000 | 366 | 1095 | -0.017391253 | KRT1,KRT2,KRT71,KRT72,KRT73,KRT74,KRT77 |
| 5 | 27,450,000 | 27,600,000 | 367 | 737 | -1.844804173 | KRT5,KRT6B,KRT71,KRT72,KRT73,KRT74,ENSBTAG000039425,ENSBTAG00000040019 |
| 5 | 27,525,000 | 27,675,000 | 368 | 674 | -0.794118425 | KRT5,KRT6B,KRT75,KRT82,ENSBTAG00000037791,ENSBTAG00000039425,ENSBTAG00000040019 |
| 5 | 27,600,000 | 27,750,000 | 369 | 861 | 0.366653547 | KRT75,KRT82,KRT83,KRT84,KRT85,ENSBTAG0000003791 |
| 5 | 27,675,000 | 27,825,000 | 370 | 548 | -0.213748997 | KRT81,KRT83,KRT84,KRT85,KRT86,ENSBTAG00000013756,ENSBTAG00000016166 |
| 5 | 27,750,000 | 27,900,000 | 371 | 397 | -0.231477413 | KRT7,KRT80,KRT81,KRT83,KRT86,ENSBTAG00000013756,ENSBTAG00000016166 |
| 5 | 27,825,000 | 27,975,000 | 372 | 424 | 0.979082077 | ATG101,KRT7,KRT80,ENSBTAG00000016166 |
| 5 | 27,900,000 | 28,050,000 | 373 | 335 | 0.354963816 | ACVR1B,ATG101,GRASP,KRT80,NR4A1 |
| 5 | 27,975,000 | 28,125,000 | 374 | 351 | 0.362027598 | ACVR1B,ACVRL1,GRASP,NR4A1 |
| 5 | 28,050,000 | 28,200,000 | 375 | 332 | 0.004191451 | ACVR1B,ACVRL1,ANKRD33,ENSBTAG00000002673 |
| 5 | 28,125,000 | 28,275,000 | 376 | 322 | -0.140204417 | ANKRD33,SCN8A,ENSBTAG00000002673 |
| 5 | 28,200,000 | 28,350,000 | 377 | 665 | 0.664506195 | SCN8A |
| 5 | 28,275,000 | 28,425,000 | 378 | 941 | 0.87613001 | SCN8A |
| 5 | 28,350,000 | 28,500,000 | 379 | 938 | 0.822929581 | SLC4A8 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 28,425,000 | 28,575,000 | 380 | 784 | 0.636410665 | RPL36,SLC4A8 |
| 5 | 28,500,000 | 28,650,000 | 381 | 453 | 0.623588282 | BIN2,CELA1,GALNT6,RPL36,SLC4A8 |
| 5 | 28,575,000 | 28,725,000 | 382 | 544 | -0.715644512 | BIN2,CELA1,DAZAP2,GALNT6,SMAGP |
| 5 | 28,650,000 | 28,800,000 | 383 | 754 | -0.383744851 | BIN2,DAZAP2,POU6F1,SMAGP,TFCP2 |
| 5 | 28,725,000 | 28,875,000 | 384 | 617 | 0.200463689 | CSRNP2,LETMD1,POU6F1,TFCP2 |
| 5 | 28,800,000 | 28,950,000 | 385 | 500 | -0.199851783 | CSRNP2,LETMD1,SLC11A2,TFCP2 |
| 5 | 28,875,000 | 29,025,000 | 386 | 536 | -0.203795827 | SLC11A2 |
| 5 | 28,950,000 | 29,100,000 | 387 | 620 | -0.174895802 | SLC11A2,ENSBTAG00000032899 |
| 5 | 29,025,000 | 29,175,000 | 388 | 739 | 0.511456644 | HIGD1C,METTL7A,SLC11A2,ENSBTAG0000002355,E NSBTAG00000032899 |
| 5 | 29,100,000 | 29,250,000 | 389 | 706 | -0.156697587 | HIGD1C,METTL7A,ENSBTAG0000002355,ENSBTAG0 0000038893 |
| 5 | 29,175,000 | 29,325,000 | 390 | 587 | -0.430631305 | ATF1,ENSBTAG00000038893 |
| 5 | 29,250,000 | 29,400,000 | 391 | 500 | 0.424729698 | ATF1,DIP2B |
| 5 | 29,325,000 | 29,475,000 | 392 | 341 | -0.654185715 | ATF1,DIP2B,HIST1H4I |
| 5 | 29,400,000 | 29,550,000 | 393 | 360 | -0.565632096 | DIP2B,HIST1H4I |
| 5 | 29,475,000 | 29,625,000 | 394 | 369 | -0.497065171 | DIP2B,LARP4,ENSBTAG00000047199 |
| 5 | 29,550,000 | 29,700,000 | 395 | 282 | -0.944877655 | DIP2B,LARP4,ENSBTAG00000047199 |
| 5 | 29,625,000 | 29,775,000 | 396 | 319 | -0.421141998 | FAM186A,LARP4 |
| 5 | 29,700,000 | 29,850,000 | 397 | 435 | 0.671538179 | FAM186A,LIMA1 |
| 5 | 29,775,000 | 29,925,000 | 398 | 439 | 0.336095575 | LASS5,LIMA1 |
| 5 | 29,850,000 | 30,000,000 | 399 | 424 | -0.133710063 | ASIC1,COX14,GPD1,LASS5,LIMA1,SMARCD1 |
| 5 | 29,925,000 | 30,075,000 | 400 | 374 | -0.139933614 | AQP6,ASIC1,COX14,GPD1,LASS5,RACGAP1,SMARCD1 |
| 5 | 30,000,000 | 30,150,000 | 401 | 470 | 0.300728812 | AQP2,AQP5,AQP6,ASIC1,RACGAP1 |
| 5 | 30,075,000 | 30,225,000 | 402 | 720 | 0.901043417 | AQP2,AQP5,BCDIN3D,FAIM2 |
| 5 | 30,150,000 | 30,300,000 | 403 | 586 | 0.811597902 | BCDIN3D,FAIM2,NCKAP5L,TMBIM6 |
| 5 | 30,225,000 | 30,375,000 | 404 | 406 | 0.575698751 | FMNL3,NCKAP5L,PRPF40B,TMBIM6 |
| 5 | 30,300,000 | 30,450,000 | 405 | 352 | 0.580948875 | FAM186B,FMNL3,KCNH3,MCRS1,PRPF40B |
| 5 | 30,375,000 | 30,525,000 | 406 | 346 | -0.569061136 | FAM186B,KCNH3,MCRS1,PRPF40B,ENSBTAG0000000 4660 |
| 5 | 30,450,000 | 30,600,000 | 407 | 459 | -0.638305796 | KCNH3,ENSBTAG00000004660 |
| 5 | 30,525,000 | 30,675,000 | 408 | 741 | 0.045491714 | C1QL4,DNAJC22,TROAP,ENSBTAG00000004660 |
| 5 | 30,600,000 | 30,750,000 | 409 | 852 | 0.687756055 | C1QL4,DNAJC22,PRPH,TROAP,TUBA1C,ENSBTAG0000 0037775 |
| 5 | 30,675,000 | 30,825,000 | 410 | 518 | 0.919263062 | PRPH,TUBA1A,TUBA1C,ENSBTAG00000037775 |
| 5 | 30,750,000 | 30,900,000 | 411 | 272 | -0.278843305 | DHH,LMBR1L,TUBA1A,TUBA1B |
| 5 | 30,825,000 | 30,975,000 | 412 | 240 | -0.602801638 | DHH,KMT2D,LMBR1L,PRKAG1,RHEBL1,TUBA1A,TUBA 1B |
| 5 | 30,900,000 | 31,050,000 | 413 | 238 | -0.293808802 | DDN,FKBP11,KMT2D,PRKAG1,RHEBL1,WNT1,WNT10B |
| 5 | 30,975,000 | 31,125,000 | 414 | 248 | 0.258864588 | CACNB3,CCDC65,DDN,DDX23,FKBP11,PRKAG1,RND1, WNT1,WNT10B |
| 5 | 31,050,000 | 31,200,000 | 415 | 228 | 0.737064968 | ADCY6,CACNB3,CCDC65,DDX23,FKBP11,RND1 |
| 5 | 31,125,000 | 31,275,000 | 416 | 189 | 1.109710588 | ADCY6,CACNB3,CCNT1,KANSL2 |
| 5 | 31,200,000 | 31,350,000 | 417 | 212 | 0.376796371 | CCNT1,KANSL2,LALBA |
| 5 | 31,275,000 | 31,425,000 | 418 | 259 | -1.386132 | KANSL2,LALBA |
| 5 | 31,350,000 | 31,500,000 | 419 | 434 | -1.578640653 | ENSBTAG00000038290 |
| 5 | 31,425,000 | 31,575,000 | 420 | 526 | -1.154198014 | ENSBTAG00000000280,ENSBTAG00000007706,ENSBT AG00000038290 |
| 5 | 31,500,000 | 31,650,000 | 421 | 1012 | -0.401721151 | OR8S1,ENSBTAG00000000280,ENSBTAG00000007706 ,ENSBTAG00000016905 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 31,575,000 | 31,725,000 | 422 | 1505 | 0.466450011 | C5H12orf54,OR8S1,ENSBTAG00000016317,ENSBTAG00000016905 |
| 5 | 31,650,000 | 31,800,000 | 423 | 1119 | 0.882229816 | C5H12orf54,ENSBTAG00000016317,ENSBTAG00000039152 |
| 5 | 31,725,000 | 31,875,000 | 424 | 1191 | 1.061171902 | C5H12orf54,ENSBTAG00000005054,ENSBTAG00000039152 |
| 5 | 31,800,000 | 31,950,000 | 425 | 1304 | 1.290813081 | ENSBTAG00000005054,ENSBTAG00000014748 |
| 5 | 31,875,000 | 32,025,000 | 426 | 782 | 0.832624567 | ENSBTAG00000004181,ENSBTAG00000014748 |
| 5 | 31,950,000 | 32,100,000 | 427 | 398 | 0.185744103 | ENSBTAG00000004181 |
| 5 | 32,025,000 | 32,175,000 | 428 | 410 | 1.336276753 | ZNF641 |
| 5 | 32,100,000 | 32,250,000 | 429 | 691 | 1.172648367 | ZNF641,ENSBTAG00000032428 |
| 5 | 32,175,000 | 32,325,000 | 430 | 791 | 0.967101784 | ASB8,CCDC184,PFKM,ENSBTAG00000032428,ENSBTAG00000032429 |
| 5 | 32,250,000 | 32,400,000 | 431 | 554 | 1.032175749 | ASB8,CCDC184,PFKM,SENP1,ENSBTAG00000032429 |
| 5 | 32,325,000 | 32,475,000 | 432 | 350 | 0.759283769 | COL2A1,PFKM,SENP1 |
| 5 | 32,400,000 | 32,550,000 | 433 | 485 | -1.030340545 | COL2A1,SENP1,TMEM106C |
| 5 | 32,475,000 | 32,625,000 | 434 | 508 | -0.80413437 | COL2A1,TMEM106C,VDR |
| 5 | 32,550,000 | 32,700,000 | 435 | 310 | -0.027795066 | HDAC7,RAPGEF3,SLC48A1,VDR |
| 5 | 32,625,000 | 32,775,000 | 436 | 351 | -0.678213892 | ENDOU,HDAC7,RAPGEF3,RPAP3,SLC48A1 |
| 5 | 32,700,000 | 32,850,000 | 437 | 528 | -0.163481594 | ENDOU,RAPGEF3,RPAP3 |
| 5 | 32,775,000 | 32,925,000 | 438 | 826 | -0.030739029 | RPAP3 |
| 5 | 32,850,000 | 33,000,000 | 439 | 1208 | -0.034407505 | |
| 5 | 32,925,000 | 33,075,000 | 440 | 1058 | -0.612521942 | |
| 5 | 33,000,000 | 33,150,000 | 441 | 781 | -1.895926624 | ENSBTAG00000038027 |
| 5 | 33,075,000 | 33,225,000 | 442 | 827 | -1.036691366 | PCED1B,ENSBTAG00000038027 |
| 5 | 33,150,000 | 33,300,000 | 443 | 687 | -0.656633358 | PCED1B |
| 5 | 33,225,000 | 33,375,000 | 444 | 615 | -0.338794867 | AMIGO2,PCED1B |
| 5 | 33,300,000 | 33,450,000 | 445 | 693 | 0.52723083 | AMIGO2,PCED1B |
| 5 | 33,375,000 | 33,525,000 | 446 | 881 | 0.683836299 | |
| 5 | 33,450,000 | 33,600,000 | 447 | 955 | 0.747351674 | |
| 5 | 33,525,000 | 33,675,000 | 448 | 743 | 0.343781926 | ATA3 |
| 5 | 33,600,000 | 33,750,000 | 449 | 805 | -0.241808588 | ATA3 |
| 5 | 33,675,000 | 33,825,000 | 450 | 828 | -0.075399399 | |
| 5 | 33,750,000 | 33,900,000 | 451 | 639 | -0.259276244 | |
| 5 | 33,825,000 | 33,975,000 | 452 | 671 | -1.354858236 | |
| 5 | 33,900,000 | 34,050,000 | 453 | 624 | -1.28770203 | SLC38A2 |
| 5 | 33,975,000 | 34,125,000 | 454 | 498 | -0.02353508 | SLC38A2 |
| 5 | 34,050,000 | 34,200,000 | 455 | 573 | -0.787144127 | SLC38A1 |
| 5 | 34,125,000 | 34,275,000 | 456 | 545 | -0.477282999 | SLC38A1 |
| 5 | 34,200,000 | 34,350,000 | 457 | 594 | 0.972142989 | |
| 5 | 34,275,000 | 34,425,000 | 458 | 571 | 0.378757785 | |
| 5 | 34,350,000 | 34,500,000 | 459 | 323 | -1.098747588 | ARID2,SCAF11 |
| 5 | 34,425,000 | 34,575,000 | 460 | 211 | -1.056510972 | ARID2,SCAF11 |
| 5 | 34,500,000 | 34,650,000 | 461 | 199 | -2.060984138 | ARID2 |
| 5 | 34,575,000 | 34,725,000 | 462 | 159 | -2.717051832 | ARID2 |
| 5 | 34,650,000 | 34,800,000 | 463 | 126 | -1.741413437 | |
| 5 | 34,725,000 | 34,875,000 | 464 | 121 | -2.000400211 | |
| 5 | 34,800,000 | 34,950,000 | 465 | 317 | -0.281835981 | |
| 5 | 34,875,000 | 35,025,000 | 466 | 629 | 0.571430833 | |
| 5 | 34,950,000 | 35,100,000 | 467 | 568 | 0.480834763 | ANO6 |
| 5 | 35,025,000 | 35,175,000 | 468 | 413 | 0.496218362 | ANO6,ENSBTAG00000026249 |
| 5 | 35,100,000 | 35,250,000 | 469 | 873 | 0.528292289 | ANO6,ENSBTAG00000026249 |
| 5 | 35,175,000 | 35,325,000 | 470 | 932 | -1.797608287 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------------|
| 5 | 35,250,000 | 35,400,000 | 471 | 600 | -3.028692989 | |
| 5 | 35,325,000 | 35,475,000 | 472 | 745 | 0.566254759 | DBX2 |
| 5 | 35,400,000 | 35,550,000 | 473 | 528 | 1.375409847 | DBX2 |
| 5 | 35,475,000 | 35,625,000 | 474 | 301 | 1.327778567 | DBX2 |
| 5 | 35,550,000 | 35,700,000 | 475 | 330 | 0.660451316 | NELL2 |
| 5 | 35,625,000 | 35,775,000 | 476 | 448 | -0.4777704 | NELL2 |
| 5 | 35,700,000 | 35,850,000 | 477 | 472 | -0.443725583 | NELL2 |
| 5 | 35,775,000 | 35,925,000 | 478 | 458 | 0.148520646 | NELL2 |
| 5 | 35,850,000 | 36,000,000 | 479 | 650 | 0.567052445 | NELL2 |
| 5 | 35,925,000 | 36,075,000 | 480 | 758 | 0.849141861 | NELL2 |
| 5 | 36,000,000 | 36,150,000 | 481 | 907 | 1.112884957 | NELL2 |
| 5 | 36,075,000 | 36,225,000 | 482 | 734 | 0.935486064 | TMEM117 |
| 5 | 36,150,000 | 36,300,000 | 483 | 787 | 0.369957609 | TMEM117 |
| 5 | 36,225,000 | 36,375,000 | 484 | 907 | -0.124157789 | TMEM117 |
| 5 | 36,300,000 | 36,450,000 | 485 | 667 | -0.147358606 | TMEM117 |
| 5 | 36,375,000 | 36,525,000 | 486 | 582 | -0.960010183 | TMEM117 |
| 5 | 36,450,000 | 36,600,000 | 487 | 648 | -1.999072133 | TMEM117 |
| 5 | 36,525,000 | 36,675,000 | 488 | 596 | -1.083044376 | TMEM117 |
| 5 | 36,600,000 | 36,750,000 | 489 | 623 | -1.042422384 | TMEM117 |
| 5 | 36,675,000 | 36,825,000 | 490 | 733 | -0.328915833 | TMEM117 |
| 5 | 36,750,000 | 36,900,000 | 491 | 473 | 0.58374157 | IRAK4,TMEM117,TWF1 |
| 5 | 36,825,000 | 36,975,000 | 492 | 689 | -0.712963423 | IRAK4,PUS7L,TWF1 |
| 5 | 36,900,000 | 37,050,000 | 493 | 728 | -0.493252225 | IRAK4,PUS7L |
| 5 | 36,975,000 | 37,125,000 | 494 | 372 | 0.279617134 | ADAMTS20 |
| 5 | 37,050,000 | 37,200,000 | 495 | 370 | -0.205036626 | ADAMTS20 |
| 5 | 37,125,000 | 37,275,000 | 496 | 332 | -0.978668494 | ADAMTS20 |
| 5 | 37,200,000 | 37,350,000 | 497 | 371 | -0.279703632 | ADAMTS20 |
| 5 | 37,275,000 | 37,425,000 | 498 | 715 | -0.243223935 | ADAMTS20 |
| 5 | 37,350,000 | 37,500,000 | 499 | 708 | -0.503886326 | |
| 5 | 37,425,000 | 37,575,000 | 500 | 426 | -1.044742312 | |
| 5 | 37,500,000 | 37,650,000 | 501 | 455 | -1.847170434 | ENSBTAG00000046601 |
| 5 | 37,575,000 | 37,725,000 | 502 | 745 | -3.200971872 | ENSBTAG00000046601 |
| 5 | 37,650,000 | 37,800,000 | 503 | 1204 | -1.591201955 | |
| 5 | 37,725,000 | 37,875,000 | 504 | 1149 | -0.247037431 | |
| 5 | 37,800,000 | 37,950,000 | 505 | 663 | -0.03779855 | |
| 5 | 37,875,000 | 38,025,000 | 506 | 411 | 0.348776497 | |
| 5 | 37,950,000 | 38,100,000 | 507 | 499 | -1.400141234 | |
| 5 | 38,025,000 | 38,175,000 | 508 | 483 | -1.443564696 | |
| 5 | 38,100,000 | 38,250,000 | 509 | 387 | 0.021402363 | |
| 5 | 38,175,000 | 38,325,000 | 510 | 401 | -0.340902314 | PRICKLE1,ENSBTAG00000045487 |
| 5 | 38,250,000 | 38,400,000 | 511 | 651 | -0.988954343 | PPHLN1,PRICKLE1,ENSBTAG00000045487 |
| 5 | 38,325,000 | 38,475,000 | 512 | 696 | -0.768224239 | PPHLN1,PRICKLE1 |
| 5 | 38,400,000 | 38,550,000 | 513 | 621 | 0.521933335 | PPHLN1 |
| 5 | 38,475,000 | 38,625,000 | 514 | 800 | -0.416436915 | PPHLN1,ZCRB1 |
| 5 | 38,550,000 | 38,700,000 | 515 | 618 | -1.170233529 | PPHLN1,YAF2,ZCRB1 |
| 5 | 38,625,000 | 38,775,000 | 516 | 361 | 0.391623323 | GXYLT1,YAF2 |
| 5 | 38,700,000 | 38,850,000 | 517 | 530 | 0.735324257 | GXYLT1,YAF2 |
| 5 | 38,775,000 | 38,925,000 | 518 | 952 | 0.030852334 | GXYLT1 |
| 5 | 38,850,000 | 39,000,000 | 519 | 1322 | -0.059495767 | |
| 5 | 38,925,000 | 39,075,000 | 520 | 1436 | 0.50794543 | |
| 5 | 39,000,000 | 39,150,000 | 521 | 1002 | 0.431304949 | |
| 5 | 39,075,000 | 39,225,000 | 522 | 714 | 0.686238452 | |
| 5 | 39,150,000 | 39,300,000 | 523 | 567 | 1.182443261 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 39,225,000 | 39,375,000 | 524 | 699 | 0.900031379 | |
| 5 | 39,300,000 | 39,450,000 | 525 | 859 | 0.853339619 | PDZRN4 |
| 5 | 39,375,000 | 39,525,000 | 526 | 856 | -4.677127218 | PDZRN4 |
| 5 | 39,450,000 | 39,600,000 | 527 | 877 | -3.790698762 | |
| 5 | 39,525,000 | 39,675,000 | 528 | 597 | 1.023767602 | |
| 5 | 39,600,000 | 39,750,000 | 529 | 812 | -0.458485193 | |
| 5 | 39,675,000 | 39,825,000 | 530 | 922 | -0.108823298 | |
| 5 | 39,750,000 | 39,900,000 | 531 | 605 | 0.812855957 | |
| 5 | 39,825,000 | 39,975,000 | 532 | 656 | 0.235341411 | |
| 5 | 39,900,000 | 40,050,000 | 533 | 761 | 0.121484183 | CNTN1 |
| 5 | 39,975,000 | 40,125,000 | 534 | 534 | -0.109033088 | CNTN1 |
| 5 | 40,050,000 | 40,200,000 | 535 | 854 | 0.087125544 | CNTN1 |
| 5 | 40,125,000 | 40,275,000 | 536 | 1168 | 0.451490177 | CNTN1 |
| 5 | 40,200,000 | 40,350,000 | 537 | 853 | 0.700321953 | CNTN1 |
| 5 | 40,275,000 | 40,425,000 | 538 | 922 | -2.281032887 | |
| 5 | 40,350,000 | 40,500,000 | 539 | 1204 | -1.394921776 | |
| 5 | 40,425,000 | 40,575,000 | 540 | 1213 | 0.539061032 | ENSBTAG00000026792 |
| 5 | 40,500,000 | 40,650,000 | 541 | 1131 | 1.008076407 | ENSBTAG00000026792,ENSBTAG00000037783 |
| 5 | 40,575,000 | 40,725,000 | 542 | 862 | 0.888607682 | LRRK2,ENSBTAG00000026792,ENSBTAG00000037783 |
| 5 | 40,650,000 | 40,800,000 | 543 | 723 | 0.117931506 | LRRK2,ENSBTAG00000037783 |
| 5 | 40,725,000 | 40,875,000 | 544 | 1016 | -2.023200971 | LRRK2 |
| 5 | 40,800,000 | 40,950,000 | 545 | 1046 | -2.2455397 | LRRK2 |
| 5 | 40,875,000 | 41,025,000 | 546 | 851 | -0.652014234 | LRRK2 |
| 5 | 40,950,000 | 41,100,000 | 547 | 806 | -0.576788859 | SLC2A13 |
| 5 | 41,025,000 | 41,175,000 | 548 | 846 | -0.252952929 | SLC2A13 |
| 5 | 41,100,000 | 41,250,000 | 549 | 855 | 0.382039298 | SLC2A13 |
| 5 | 41,175,000 | 41,325,000 | 550 | 762 | -0.005607294 | SLC2A13 |
| 5 | 41,250,000 | 41,400,000 | 551 | 777 | -0.59220069 | SLC2A13 |
| 5 | 41,325,000 | 41,475,000 | 552 | 776 | -0.547967575 | SLC2A13 |
| 5 | 41,400,000 | 41,550,000 | 553 | 911 | 0.49827007 | SLC2A13 |
| 5 | 41,475,000 | 41,625,000 | 554 | 1066 | 0.677158809 | C12orf40,SLC2A13 |
| 5 | 41,550,000 | 41,700,000 | 555 | 1105 | 0.547929753 | ABCD2,C12orf40,SLC2A13 |
| 5 | 41,625,000 | 41,775,000 | 556 | 1119 | 0.401597666 | ABCD2,C12orf40 |
| 5 | 41,700,000 | 41,850,000 | 557 | 1052 | 0.580476418 | ABCD2 |
| 5 | 41,775,000 | 41,925,000 | 558 | 1336 | 0.553958414 | ABCD2 |
| 5 | 41,850,000 | 42,000,000 | 559 | 1491 | 0.508973598 | |
| 5 | 41,925,000 | 42,075,000 | 560 | 1058 | 0.63526622 | |
| 5 | 42,000,000 | 42,150,000 | 561 | 828 | 0.972575397 | KIF21A |
| 5 | 42,075,000 | 42,225,000 | 562 | 1266 | -0.461954389 | KIF21A |
| 5 | 42,150,000 | 42,300,000 | 563 | 1485 | -1.684180145 | |
| 5 | 42,225,000 | 42,375,000 | 564 | 1301 | -1.667253866 | |
| 5 | 42,300,000 | 42,450,000 | 565 | 1127 | -0.207200795 | CPNE8 |
| 5 | 42,375,000 | 42,525,000 | 566 | 1251 | 0.588846257 | CPNE8 |
| 5 | 42,450,000 | 42,600,000 | 567 | 1884 | 0.415725516 | CPNE8 |
| 5 | 42,525,000 | 42,675,000 | 568 | 2200 | 0.604916169 | CPNE8 |
| 5 | 42,600,000 | 42,750,000 | 569 | 1902 | 1.087506264 | CPNE8 |
| 5 | 42,675,000 | 42,825,000 | 570 | 1466 | 0.691946895 | CPNE8 |
| 5 | 42,750,000 | 42,900,000 | 571 | 1379 | -0.323791248 | PTPRR |
| 5 | 42,825,000 | 42,975,000 | 572 | 1256 | 0.322113583 | PTPRR |
| 5 | 42,900,000 | 43,050,000 | 573 | 1018 | 0.900676327 | PTPRR |
| 5 | 42,975,000 | 43,125,000 | 574 | 1022 | 0.095316585 | PTPRB,PTPRR |
| 5 | 43,050,000 | 43,200,000 | 575 | 828 | -0.414804839 | PTPRB,PTPRR |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 5 | 43,125,000 | 43,275,000 | 576 | 517 | -0.286589054 | KCNMB4,PTPRB |
| 5 | 43,200,000 | 43,350,000 | 577 | 586 | -0.829291575 | KCNMB4,PTPRB |
| 5 | 43,275,000 | 43,425,000 | 578 | 525 | -0.893968221 | CNOT2,KCNMB4 |
| 5 | 43,350,000 | 43,500,000 | 579 | 324 | 0.292035584 | CNOT2 |
| 5 | 43,425,000 | 43,575,000 | 580 | 536 | 0.247505517 | CNOT2 |
| 5 | 43,500,000 | 43,650,000 | 581 | 742 | 0.173410581 | |
| 5 | 43,575,000 | 43,725,000 | 582 | 651 | 0.204185972 | |
| 5 | 43,650,000 | 43,800,000 | 583 | 665 | 0.320157759 | MYRFL |
| 5 | 43,725,000 | 43,875,000 | 584 | 853 | -0.39313643 | MYRFL |
| 5 | 43,800,000 | 43,950,000 | 585 | 869 | -0.393938407 | MYRFL,RAB3IP |
| 5 | 43,875,000 | 44,025,000 | 586 | 674 | 0.364417657 | BEST3,RAB3IP |
| 5 | 43,950,000 | 44,100,000 | 587 | 714 | 0.264868876 | BEST3,LRRRC10 |
| 5 | 44,025,000 | 44,175,000 | 588 | 745 | 0.752606155 | BEST3,CCT2,FRS2,LRRRC10 |
| 5 | 44,100,000 | 44,250,000 | 589 | 515 | 0.960977893 | CCT2,FRS2 |
| 5 | 44,175,000 | 44,325,000 | 590 | 674 | -1.531614213 | YEATS4 |
| 5 | 44,250,000 | 44,400,000 | 591 | 862 | -3.252151599 | LYZ1,YEATS4 |
| 5 | 44,325,000 | 44,475,000 | 592 | 1079 | -1.519907932 | LYZ1,YEATS4,ENSBTAG00000000198,ENSBTAG00000022971 |
| 5 | 44,400,000 | 44,550,000 | 593 | 1002 | -1.080713983 | ENSBTAG00000000198,ENSBTAG00000020564,ENSBTAG00000022971,ENSBTAG00000039170 |
| 5 | 44,475,000 | 44,625,000 | 594 | 706 | -2.037232548 | LYSB,LYZ1,LYZ2,ENSBTAG00000020564,ENSBTAG0000039170 |
| 5 | 44,550,000 | 44,700,000 | 595 | 901 | 0.300442211 | LYSB,LYZ1,LYZ2,LYZ3,ENSBTAG00000020564,ENSBTAG0000026322 |
| 5 | 44,625,000 | 44,775,000 | 596 | 671 | 0.730794851 | CPSF6,LYZ,LYZ3,ENSBTAG00000026322 |
| 5 | 44,700,000 | 44,850,000 | 597 | 321 | 0.098093616 | CPSF6,LYZ |
| 5 | 44,775,000 | 44,925,000 | 598 | 729 | 1.137196681 | CPSF6 |
| 5 | 44,850,000 | 45,000,000 | 599 | 890 | 1.306477707 | |
| 5 | 44,925,000 | 45,075,000 | 600 | 683 | 0.79136998 | |
| 5 | 45,000,000 | 45,150,000 | 601 | 742 | -0.140411155 | CPM |
| 5 | 45,075,000 | 45,225,000 | 602 | 608 | -0.717284663 | CPM,MDM2 |
| 5 | 45,150,000 | 45,300,000 | 603 | 551 | -1.529608746 | CPM,MDM2,NUP107,SLC35E3 |
| 5 | 45,225,000 | 45,375,000 | 604 | 628 | -0.981846038 | NUP107,RAP1B,SLC35E3 |
| 5 | 45,300,000 | 45,450,000 | 605 | 601 | -0.32170127 | NUP107,RAP1B |
| 5 | 45,375,000 | 45,525,000 | 606 | 483 | 0.184054717 | RAP1B |
| 5 | 45,450,000 | 45,600,000 | 607 | 453 | 1.405877925 | |
| 5 | 45,525,000 | 45,675,000 | 608 | 581 | 1.387346073 | MDM1 |
| 5 | 45,600,000 | 45,750,000 | 609 | 614 | 1.033560963 | IL-22,MDM1 |
| 5 | 45,675,000 | 45,825,000 | 610 | 718 | 0.365181397 | IL-22 |
| 5 | 45,750,000 | 45,900,000 | 611 | 596 | -0.052918823 | IFNG |
| 5 | 45,825,000 | 45,975,000 | 612 | 343 | 0.078620094 | IFNG |
| 5 | 45,900,000 | 46,050,000 | 613 | 284 | 0.202864976 | |
| 5 | 45,975,000 | 46,125,000 | 614 | 400 | 0.32914756 | |
| 5 | 46,050,000 | 46,200,000 | 615 | 525 | 0.501326425 | |
| 5 | 46,125,000 | 46,275,000 | 616 | 749 | 0.680825378 | |
| 5 | 46,200,000 | 46,350,000 | 617 | 922 | 0.509134944 | DYRK2 |
| 5 | 46,275,000 | 46,425,000 | 618 | 750 | 0.337201494 | DYRK2 |
| 5 | 46,350,000 | 46,500,000 | 619 | 868 | -1.296283671 | |
| 5 | 46,425,000 | 46,575,000 | 620 | 927 | -0.917846606 | |
| 5 | 46,500,000 | 46,650,000 | 621 | 666 | -0.30062256 | |
| 5 | 46,575,000 | 46,725,000 | 622 | 865 | -0.44745229 | CAND1 |
| 5 | 46,650,000 | 46,800,000 | 623 | 889 | 0.151320271 | CAND1 |
| 5 | 46,725,000 | 46,875,000 | 624 | 653 | 0.51319361 | CAND1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 5 | 46,800,000 | 46,950,000 | 625 | 826 | 0.082166234 | |
| 5 | 46,875,000 | 47,025,000 | 626 | 1026 | 0.265014445 | |
| 5 | 46,950,000 | 47,100,000 | 627 | 903 | 0.992469618 | |
| 5 | 47,025,000 | 47,175,000 | 628 | 880 | 0.083761162 | |
| 5 | 47,100,000 | 47,250,000 | 629 | 878 | -1.099528928 | |
| 5 | 47,175,000 | 47,325,000 | 630 | 702 | -0.116401783 | |
| 5 | 47,250,000 | 47,400,000 | 631 | 579 | 0.364611015 | |
| 5 | 47,325,000 | 47,475,000 | 632 | 714 | -0.625344501 | |
| 5 | 47,400,000 | 47,550,000 | 633 | 655 | -0.666382765 | GRIP1 |
| 5 | 47,475,000 | 47,625,000 | 634 | 557 | 0.21892252 | GRIP1 |
| 5 | 47,550,000 | 47,700,000 | 635 | 834 | 0.698171649 | GRIP1 |
| 5 | 47,625,000 | 47,775,000 | 636 | 852 | -0.667749744 | FAU,GRIP1,HELB |
| 5 | 47,700,000 | 47,850,000 | 637 | 552 | -1.695079434 | FAU,GRIP1,HELB,IRAKM |
| 5 | 47,775,000 | 47,925,000 | 638 | 286 | -1.077902225 | CGI-119,IRAKM,LLPH |
| 5 | 47,850,000 | 48,000,000 | 639 | 336 | -0.086010272 | CGI-119,LLPH |
| 5 | 47,925,000 | 48,075,000 | 640 | 548 | 0.863901689 | HMGA2 |
| 5 | 48,000,000 | 48,150,000 | 641 | 756 | 0.911640136 | HMGA2 |
| 5 | 48,075,000 | 48,225,000 | 642 | 644 | -0.037968739 | HMGA2 |
| 5 | 48,150,000 | 48,300,000 | 643 | 496 | -1.13215547 | HMGA2 |
| 5 | 48,225,000 | 48,375,000 | 644 | 771 | 0.011303326 | |
| 5 | 48,300,000 | 48,450,000 | 645 | 958 | 0.162987868 | |
| 5 | 48,375,000 | 48,525,000 | 646 | 852 | 0.470429939 | |
| 5 | 48,450,000 | 48,600,000 | 647 | 713 | 0.992057897 | MSRB3 |
| 5 | 48,525,000 | 48,675,000 | 648 | 490 | 0.758610138 | MSRB3 |
| 5 | 48,600,000 | 48,750,000 | 649 | 306 | 0.955570236 | MSRB3 |
| 5 | 48,675,000 | 48,825,000 | 650 | 330 | 1.370392742 | LEMD3,MSRB3 |
| 5 | 48,750,000 | 48,900,000 | 651 | 569 | 1.341658699 | LEMD3 |
| 5 | 48,825,000 | 48,975,000 | 652 | 622 | 1.238775867 | LEMD3,WIF1 |
| 5 | 48,900,000 | 49,050,000 | 653 | 406 | 0.958233458 | WIF1 |
| 5 | 48,975,000 | 49,125,000 | 654 | 474 | 0.875894806 | WIF1 |
| 5 | 49,050,000 | 49,200,000 | 655 | 699 | 0.305864329 | TBC1D30 |
| 5 | 49,125,000 | 49,275,000 | 656 | 707 | 0.293643203 | TBC1D30,ENSBTAG00000000237 |
| 5 | 49,200,000 | 49,350,000 | 657 | 474 | 0.172187876 | GNS,RASSF3,TBC1D30,ENSBTAG00000000237 |
| 5 | 49,275,000 | 49,425,000 | 658 | 302 | -0.305283517 | GNS,RASSF3 |
| 5 | 49,350,000 | 49,500,000 | 659 | 379 | -0.49487126 | RASSF3 |
| 5 | 49,425,000 | 49,575,000 | 660 | 503 | -0.727740599 | TBK1,XPOT |
| 5 | 49,500,000 | 49,650,000 | 661 | 468 | -0.143258605 | C12orf56,TBK1,XPOT |
| 5 | 49,575,000 | 49,725,000 | 662 | 791 | 0.042125598 | C12orf56,C5H12orf66,XPOT |
| 5 | 49,650,000 | 49,800,000 | 663 | 1266 | 0.43831098 | C12orf56,C5H12orf66 |
| 5 | 49,725,000 | 49,875,000 | 664 | 902 | 0.519410026 | C5H12orf66,SRGAP1 |
| 5 | 49,800,000 | 49,950,000 | 665 | 557 | -0.560759821 | SRGAP1 |
| 5 | 49,875,000 | 50,025,000 | 666 | 691 | -0.756879874 | SRGAP1 |
| 5 | 49,950,000 | 50,100,000 | 667 | 789 | -0.378274246 | SRGAP1 |
| 5 | 50,025,000 | 50,175,000 | 668 | 573 | 0.115474289 | TMEM5 |
| 5 | 50,100,000 | 50,250,000 | 669 | 529 | 0.720329761 | TMEM5 |
| 5 | 50,175,000 | 50,325,000 | 670 | 696 | 0.60026723 | TMEM5 |
| 5 | 50,250,000 | 50,400,000 | 671 | 767 | 0.288778222 | |
| 5 | 50,325,000 | 50,475,000 | 672 | 750 | 0.153333811 | |
| 5 | 50,400,000 | 50,550,000 | 673 | 600 | 0.290153186 | |
| 5 | 50,475,000 | 50,625,000 | 674 | 796 | 1.052358462 | AVPR1A |
| 5 | 50,550,000 | 50,700,000 | 675 | 632 | 0.954846572 | AVPR1A |
| 5 | 50,625,000 | 50,775,000 | 676 | 566 | -0.438757092 | |
| 5 | 50,700,000 | 50,850,000 | 677 | 1061 | -0.58511874 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 5 | 50,775,000 | 50,925,000 | 678 | 965 | -0.761097423 | PPM1H |
| 5 | 50,850,000 | 51,000,000 | 679 | 670 | -0.655488981 | PPM1H |
| 5 | 50,925,000 | 51,075,000 | 680 | 921 | 0.729497965 | PPM1H |
| 5 | 51,000,000 | 51,150,000 | 681 | 1060 | 0.864949451 | PPM1H |
| 5 | 51,075,000 | 51,225,000 | 682 | 772 | -0.419552433 | MON2,PPM1H |
| 5 | 51,150,000 | 51,300,000 | 683 | 773 | -1.900578426 | MON2,PPM1H |
| 5 | 51,225,000 | 51,375,000 | 684 | 872 | -1.967063039 | MON2 |
| 5 | 51,300,000 | 51,450,000 | 685 | 587 | -1.555725243 | MON2,USP15 |
| 5 | 51,375,000 | 51,525,000 | 686 | 367 | -1.197500426 | USP15 |
| 5 | 51,450,000 | 51,600,000 | 687 | 520 | -1.238228145 | USP15 |
| 5 | 51,525,000 | 51,675,000 | 688 | 521 | -0.698564076 | |
| 5 | 51,600,000 | 51,750,000 | 689 | 690 | 1.035817081 | |
| 5 | 51,675,000 | 51,825,000 | 690 | 970 | 1.372869054 | |
| 5 | 51,750,000 | 51,900,000 | 691 | 866 | 0.890387612 | |
| 5 | 51,825,000 | 51,975,000 | 692 | 809 | 0.159693126 | |
| 5 | 51,900,000 | 52,050,000 | 693 | 810 | 0.701225825 | FAM19A2 |
| 5 | 51,975,000 | 52,125,000 | 694 | 570 | 1.023147175 | FAM19A2 |
| 5 | 52,050,000 | 52,200,000 | 695 | 580 | 0.308350873 | FAM19A2,ENSBTAG00000045842 |
| 5 | 52,125,000 | 52,275,000 | 696 | 1076 | 0.029639437 | ENSBTAG00000045842 |
| 5 | 52,200,000 | 52,350,000 | 697 | 1368 | 0.407126533 | |
| 5 | 52,275,000 | 52,425,000 | 698 | 971 | 0.672738563 | |
| 5 | 52,350,000 | 52,500,000 | 699 | 470 | -0.762406606 | |
| 5 | 52,425,000 | 52,575,000 | 700 | 436 | -0.723109692 | |
| 5 | 52,500,000 | 52,650,000 | 701 | 582 | -0.103551551 | |
| 5 | 52,575,000 | 52,725,000 | 702 | 831 | -0.159591421 | |
| 5 | 52,650,000 | 52,800,000 | 703 | 1027 | 0.179169444 | |
| 5 | 52,725,000 | 52,875,000 | 704 | 1063 | -0.175935545 | ENSBTAG00000040344 |
| 5 | 52,800,000 | 52,950,000 | 705 | 758 | -0.59639455 | ENSBTAG00000040344 |
| 5 | 52,875,000 | 53,025,000 | 706 | 645 | -0.775886935 | |
| 5 | 52,950,000 | 53,100,000 | 707 | 597 | -0.945310819 | |
| 5 | 53,025,000 | 53,175,000 | 708 | 697 | 0.575864152 | |
| 5 | 53,100,000 | 53,250,000 | 709 | 800 | 0.87447514 | |
| 5 | 53,175,000 | 53,325,000 | 710 | 542 | 0.71965931 | |
| 5 | 53,250,000 | 53,400,000 | 711 | 488 | 0.727978195 | |
| 5 | 53,325,000 | 53,475,000 | 712 | 433 | 0.571187767 | |
| 5 | 53,400,000 | 53,550,000 | 713 | 444 | 0.516185197 | |
| 5 | 53,475,000 | 53,625,000 | 714 | 619 | 0.323086673 | |
| 5 | 53,550,000 | 53,700,000 | 715 | 674 | 0.061101931 | |
| 5 | 53,625,000 | 53,775,000 | 716 | 613 | -0.135077031 | |
| 5 | 53,700,000 | 53,850,000 | 717 | 924 | 0.291404414 | |
| 5 | 53,775,000 | 53,925,000 | 718 | 930 | 0.280391823 | |
| 5 | 53,850,000 | 54,000,000 | 719 | 714 | -0.26284083 | SLC16A7 |
| 5 | 53,925,000 | 54,075,000 | 720 | 620 | -0.701669054 | SLC16A7 |
| 5 | 54,000,000 | 54,150,000 | 721 | 432 | -3.095732484 | SLC16A7 |
| 5 | 54,075,000 | 54,225,000 | 722 | 477 | -2.079711174 | SLC16A7 |
| 5 | 54,150,000 | 54,300,000 | 723 | 575 | -0.606874658 | SLC16A7 |
| 5 | 54,225,000 | 54,375,000 | 724 | 786 | 0.752525775 | |
| 5 | 54,300,000 | 54,450,000 | 725 | 885 | 0.938347186 | |
| 5 | 54,375,000 | 54,525,000 | 726 | 766 | 0.061128535 | |
| 5 | 54,450,000 | 54,600,000 | 727 | 731 | -0.146954231 | |
| 5 | 54,525,000 | 54,675,000 | 728 | 923 | 0.376096316 | |
| 5 | 54,600,000 | 54,750,000 | 729 | 996 | 0.653572208 | |
| 5 | 54,675,000 | 54,825,000 | 730 | 759 | 0.716457397 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 54,750,000 | 54,900,000 | 731 | 535 | 0.411860207 | LRIG3 |
| 5 | 54,825,000 | 54,975,000 | 732 | 524 | -0.73009285 | LRIG3 |
| 5 | 54,900,000 | 55,050,000 | 733 | 749 | -1.556457939 | LRIG3 |
| 5 | 54,975,000 | 55,125,000 | 734 | 707 | -1.09856371 | |
| 5 | 55,050,000 | 55,200,000 | 735 | 474 | -0.006673619 | |
| 5 | 55,125,000 | 55,275,000 | 736 | 495 | 0.232673772 | |
| 5 | 55,200,000 | 55,350,000 | 737 | 808 | -1.12811127 | |
| 5 | 55,275,000 | 55,425,000 | 738 | 991 | -2.134937095 | |
| 5 | 55,350,000 | 55,500,000 | 739 | 1058 | -0.762666647 | |
| 5 | 55,425,000 | 55,575,000 | 740 | 938 | 0.346022089 | |
| 5 | 55,500,000 | 55,650,000 | 741 | 671 | 0.427284864 | |
| 5 | 55,575,000 | 55,725,000 | 742 | 996 | -0.267421753 | |
| 5 | 55,650,000 | 55,800,000 | 743 | 941 | -0.406453634 | |
| 5 | 55,725,000 | 55,875,000 | 744 | 468 | 0.039757868 | XRCC6BP1 |
| 5 | 55,800,000 | 55,950,000 | 745 | 403 | 0.974862551 | XRCC6BP1 |
| 5 | 55,875,000 | 56,025,000 | 746 | 396 | 1.121618645 | AVIL,CTDSP2,CYP27B1,METTL1,METTL21B,TSFM |
| 5 | 55,950,000 | 56,100,000 | 747 | 268 | 0.611793503 | AGAP2,AVIL,CDK4,CTDSP2,CYP27B1,MARCH9,METTL |
| 5 | 56,025,000 | 56,175,000 | 748 | 187 | -1.016885937 | 1,METTL21B,OS9,TSFM,TSPAN31 |
| 5 | 56,100,000 | 56,250,000 | 749 | 204 | -1.092594948 | AGAP2,CDK4,CYP27B1,MARCH9,OS9,TSPAN31 |
| 5 | 56,175,000 | 56,325,000 | 750 | 204 | -0.213646943 | DTX3,GALGT,GEFT,KIF5A,OS9,PIP4K2C,SLC26A10,ENS |
| 5 | 56,250,000 | 56,400,000 | 751 | 246 | 0.204643931 | BTAG00000047374 |
| 5 | 56,325,000 | 56,475,000 | 752 | 306 | 0.433309616 | ARHGAP9,DCTN2,DDIT3,DTX3,GALGT,GEFT,GLI1,KIF5 |
| 5 | 56,400,000 | 56,550,000 | 753 | 299 | 0.641602195 | A,MARS,MBD6,PIP4K2C,SLC26A10,ENSBTAG0000004 |
| 5 | 56,475,000 | 56,625,000 | 754 | 273 | 0.013612787 | 7374 |
| 5 | 56,550,000 | 56,700,000 | 755 | 254 | -1.366895408 | ARHGAP9,DCTN2,DDIT3,GLI1,INHBC,INHBE,KIF5A,MA |
| 5 | 56,625,000 | 56,775,000 | 756 | 256 | -1.475628107 | RS,MBD6 |
| 5 | 56,700,000 | 56,850,000 | 757 | 248 | -1.516310453 | GLI1,INHBC,INHBE |
| 5 | 56,775,000 | 56,925,000 | 758 | 204 | -1.624593774 | NDUFA4L2,NXPH4,R3HDM2,SHMT2,STAC3 |
| 5 | 56,850,000 | 57,000,000 | 759 | 217 | -0.234779597 | LRP1,NDUFA4L2,NXPH4,R3HDM2,SHMT2,STAC3 |
| 5 | 56,925,000 | 57,075,000 | 760 | 205 | -0.319132484 | LRP1,NAB2,NXPH4,STAT6,TMEM194A |
| 5 | 57,000,000 | 57,150,000 | 761 | 170 | -0.858005902 | GPR182,LRP1,MYO1A,NAB2,STAT6,TAC3,TMEM194A, |
| 5 | 57,075,000 | 57,225,000 | 762 | 202 | -1.238120937 | ZBTB39 |
| 5 | 57,150,000 | 57,300,000 | 763 | 243 | -0.953241587 | GPR182,MYO1A,TAC3,TMEM194A,ZBTB39 |
| 5 | 57,225,000 | 57,375,000 | 764 | 260 | -0.204547708 | GPR182,RDH16,SDR9C7 |
| 5 | 57,300,000 | 57,450,000 | 765 | 241 | -1.054633895 | RDH16,SDR9C7 |
| 5 | 57,375,000 | 57,525,000 | 766 | 236 | -1.720851172 | HSD17B6,NACA,PRIM1 |
| 5 | 57,450,000 | 57,600,000 | 767 | 345 | -1.512866299 | ATP5B,BAZ2A,HSD17B6,NACA,PRIM1,PTGES3 |
| 5 | 57,525,000 | 57,675,000 | 768 | 476 | -0.533138544 | ATP5B,BAZ2A,PTGES3,RBMS2 |
| 5 | 57,600,000 | 57,750,000 | 769 | 602 | 0.469947181 | BAZ2A,GLS2,MIP,RBMS2,SPRYD4,TIMELESS |
| 5 | 57,675,000 | 57,825,000 | 770 | 590 | 0.72775889 | APOF,APON,CNPY2,CS,GLS2,IL23A,MIP,PAN2,SPRYD4, |
| | | | | | | STAT2,TIMELESS |
| | | | | | | ANKRD52,APOF,APON,CNPY2,COQ10A,CS,IL23A,NAB |
| | | | | | | P2,PAN2,RNF41,SLC39A5,STAT2 |
| | | | | | | ANKRD52,COQ10A,CS,FAM62A,MYL6,MYL6B,NABP2, |
| | | | | | | RNF41,SLC39A5,SMARCC2,ZC3H10 |
| | | | | | | ERBB3,FAM62A,MYL6,MYL6B,PA2G4,RNF41,SMARCC2 |
| | | | | | | ,ZC3H10 |
| | | | | | | CDK2,ERBB3,IKZF4,PA2G4,PMEL17,RAB5B,RPS26,SUO |
| | | | | | | X,ZC3H10 |
| | | | | | | CDK2,DGKA,IKZF4,PMEL17,RAB5B,RPS26,SUOX,WIBG |
| | | | | | | CIP29,DGKA,DNAJC14,MMP19,ORMDL2,PMEL17,WIB |
| | | | | | | G,ENSBTAG00000009049 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 57,750,000 | 57,900,000 | 771 | 457 | 0.18254421 | BLOC1S1,CD63,CIP29,DNAJC14,GDF11,ITGA7,METTL7 B,MMP19,ORMDL2,RDH5,ENSBTAG00000009049 |
| 5 | 57,825,000 | 57,975,000 | 772 | 886 | 0.386745184 | BLOC1S1,CD63,GDF11,ITGA7,METTL7B,OR10P1,RDH5, ENSBTAG00000006605,ENSBTAG00000021621 |
| 5 | 57,900,000 | 58,050,000 | 773 | 1393 | 0.326087524 | METTL7B,OR10P1,OR2AP1,ENSBTAG00000006605,EN SBTAG00000018506,ENSBTAG00000021621 |
| 5 | 57,975,000 | 58,125,000 | 774 | 1340 | 0.129584133 | OR2AP1,ENSBTAG00000018506,ENSBTAG000000211 22,ENSBTAG00000037758,ENSBTAG00000047733 |
| 5 | 58,050,000 | 58,200,000 | 775 | 1195 | 0.354092155 | ENSBTAG00000021122,ENSBTAG00000037758,ENSBT AG00000047733,ENSBTAG00000047931 |
| 5 | 58,125,000 | 58,275,000 | 776 | 1729 | 0.783233252 | ENSBTAG00000037842,ENSBTAG00000047931,ENSBT AG00000047980 |
| 5 | 58,200,000 | 58,350,000 | 777 | 1882 | 0.838510933 | ENSBTAG00000037842,ENSBTAG00000047980 |
| 5 | 58,275,000 | 58,425,000 | 778 | 1352 | 0.477297104 | ENSBTAG00000047825 |
| 5 | 58,350,000 | 58,500,000 | 779 | 1368 | 0.805381769 | ENSBTAG00000021460,ENSBTAG00000024798,ENSBT AG00000047825 |
| 5 | 58,425,000 | 58,575,000 | 780 | 1307 | 0.616016102 | ENSBTAG00000021460,ENSBTAG00000024798,ENSBT AG00000046778,ENSBTAG00000048295 |
| 5 | 58,500,000 | 58,650,000 | 781 | 1168 | -0.774453744 | OR6C2,ENSBTAG00000046778,ENSBTAG0000004729 2,ENSBTAG00000048295 |
| 5 | 58,575,000 | 58,725,000 | 782 | 1191 | -0.063875467 | OR6C2,ENSBTAG00000047292 |
| 5 | 58,650,000 | 58,800,000 | 783 | 1486 | -0.145777018 | ENSBTAG00000026030,ENSBTAG00000031111,ENSBT AG00000038521 |
| 5 | 58,725,000 | 58,875,000 | 784 | 1831 | 0.250979428 | OR6C76,ENSBTAG00000026030,ENSBTAG000000311 11,ENSBTAG00000038521 |
| 5 | 58,800,000 | 58,950,000 | 785 | 1915 | 1.026118039 | OR6C75,OR6C76,ENSBTAG00000048224 |
| 5 | 58,875,000 | 59,025,000 | 786 | 1574 | 0.671493751 | OR6C75,ENSBTAG00000045684,ENSBTAG000000482 24 |
| 5 | 58,950,000 | 59,100,000 | 787 | 1937 | -1.017908124 | ENSBTAG00000045684,ENSBTAG00000046994 |
| 5 | 59,025,000 | 59,175,000 | 788 | 2636 | -1.133083799 | OR6C1,ENSBTAG00000046994,ENSBTAG0000004823 3 |
| 5 | 59,100,000 | 59,250,000 | 789 | 2405 | -0.384106734 | OR6C1,ENSBTAG00000046016,ENSBTAG0000004710 9,ENSBTAG00000048233 |
| 5 | 59,175,000 | 59,325,000 | 790 | 1760 | 0.294048802 | ENSBTAG00000045816,ENSBTAG00000045922,ENSBT AG00000046016,ENSBTAG00000047056,ENSBTAG000 00047109,ENSBTAG00000048277 |
| 5 | 59,250,000 | 59,400,000 | 791 | 1002 | 0.689916267 | ENSBTAG00000045752,ENSBTAG00000045816,ENSBT AG00000045922,ENSBTAG00000047056,ENSBTAG000 00048277 |
| 5 | 59,325,000 | 59,475,000 | 792 | 656 | 0.216937342 | ENSBTAG00000002913,ENSBTAG00000045752,ENSBT AG00000047890 |
| 5 | 59,400,000 | 59,550,000 | 793 | 576 | 0.453609592 | ENSBTAG00000002913,ENSBTAG00000031099,ENSBT AG00000046446,ENSBTAG00000047890 |
| 5 | 59,475,000 | 59,625,000 | 794 | 816 | 0.768408483 | ENSBTAG00000026078,ENSBTAG00000031097,ENSBT AG00000031099,ENSBTAG00000046446 |
| 5 | 59,550,000 | 59,700,000 | 795 | 1323 | -0.009717948 | OR10A7,ENSBTAG00000026078,ENSBTAG000000310 96,ENSBTAG00000031097,ENSBTAG00000047259,EN SBTAG00000047619,ENSBTAG00000047967 |
| 5 | 59,625,000 | 59,775,000 | 796 | 1516 | -0.780175226 | OR10A7,ENSBTAG00000031096,ENSBTAG000000376 29,ENSBTAG00000047259,ENSBTAG00000047619,EN SBTAG00000047967 |
| 5 | 59,700,000 | 59,850,000 | 797 | 1595 | -1.313368349 | ENSBTAG00000037629,ENSBTAG00000038567,ENSBT AG00000046639 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 59,775,000 | 59,925,000 | 798 | 1770 | -1.195128629 | ENSBTAG00000038567,ENSBTAG00000045722,ENSBTAG00000046599,ENSBTAG00000046639,ENSBTAG00000047886 |
| 5 | 59,850,000 | 60,000,000 | 799 | 1532 | -0.436845334 | ENSBTAG00000045722,ENSBTAG00000046599,ENSBTAG00000046610,ENSBTAG00000047886 |
| 5 | 59,925,000 | 60,075,000 | 800 | 1056 | -0.376849559 | ENSBTAG00000046317,ENSBTAG00000046610,ENSBTAG00000046884 |
| 5 | 60,000,000 | 60,150,000 | 801 | 1178 | 0.537356634 | ENSBTAG00000045807,ENSBTAG00000045982,ENSBTAG00000046317,ENSBTAG00000046761,ENSBTAG00000046884 |
| 5 | 60,075,000 | 60,225,000 | 802 | 1287 | 0.614689719 | ENSBTAG00000045807,ENSBTAG00000045982,ENSBTAG00000046761,ENSBTAG00000047631 |
| 5 | 60,150,000 | 60,300,000 | 803 | 1045 | 0.623854859 | NEUROD4,TESPA1,ENSBTAG00000047631 |
| 5 | 60,225,000 | 60,375,000 | 804 | 1139 | 0.775025918 | NEUROD4,NTN4,TESPA1 |
| 5 | 60,300,000 | 60,450,000 | 805 | 1199 | 1.046799517 | NTN4,TESPA1 |
| 5 | 60,375,000 | 60,525,000 | 806 | 762 | 1.07228032 | NTN4 |
| 5 | 60,450,000 | 60,600,000 | 807 | 863 | -0.067684299 | AMDHD1,CCDC38,NTN4,SNRPF |
| 5 | 60,525,000 | 60,675,000 | 808 | 1177 | -1.092631413 | AMDHD1,CCDC38,HAL,LTA4H,SNRPF |
| 5 | 60,600,000 | 60,750,000 | 809 | 861 | -1.153564276 | AMDHD1,HAL,LTA4H |
| 5 | 60,675,000 | 60,825,000 | 810 | 562 | 0.120132571 | ELK3,LTA4H |
| 5 | 60,750,000 | 60,900,000 | 811 | 403 | 0.098173701 | CDK17,ELK3 |
| 5 | 60,825,000 | 60,975,000 | 812 | 324 | -0.465104979 | CDK17,ELK3 |
| 5 | 60,900,000 | 61,050,000 | 813 | 389 | 0.128410586 | CDK17 |
| 5 | 60,975,000 | 61,125,000 | 814 | 576 | -3.450708412 | C12orf55,CDK17 |
| 5 | 61,050,000 | 61,200,000 | 815 | 585 | -2.227668881 | C12orf55 |
| 5 | 61,125,000 | 61,275,000 | 816 | 631 | 1.536581382 | C12orf55,ENSBTAG00000015792 |
| 5 | 61,200,000 | 61,350,000 | 817 | 682 | 1.382488058 | ENSBTAG00000015792 |
| 5 | 61,275,000 | 61,425,000 | 818 | 687 | 0.887414823 | ENSBTAG00000015792 |
| 5 | 61,350,000 | 61,500,000 | 819 | 583 | 0.597323549 | NEDD1 |
| 5 | 61,425,000 | 61,575,000 | 820 | 521 | -0.564982184 | NEDD1 |
| 5 | 61,500,000 | 61,650,000 | 821 | 624 | -1.081789389 | |
| 5 | 61,575,000 | 61,725,000 | 822 | 543 | -0.632325757 | |
| 5 | 61,650,000 | 61,800,000 | 823 | 478 | -0.413217484 | |
| 5 | 61,725,000 | 61,875,000 | 824 | 669 | -0.362697098 | |
| 5 | 61,800,000 | 61,950,000 | 825 | 743 | 0.184339225 | |
| 5 | 61,875,000 | 62,025,000 | 826 | 662 | -0.079260247 | |
| 5 | 61,950,000 | 62,100,000 | 827 | 580 | -0.093549125 | |
| 5 | 62,025,000 | 62,175,000 | 828 | 527 | 0.622133702 | |
| 5 | 62,100,000 | 62,250,000 | 829 | 647 | 0.203829574 | |
| 5 | 62,175,000 | 62,325,000 | 830 | 768 | -0.545513724 | |
| 5 | 62,250,000 | 62,400,000 | 831 | 747 | -1.047612616 | ENSBTAG00000045919 |
| 5 | 62,325,000 | 62,475,000 | 832 | 646 | -1.586372513 | ENSBTAG00000045919 |
| 5 | 62,400,000 | 62,550,000 | 833 | 722 | -0.284374769 | |
| 5 | 62,475,000 | 62,625,000 | 834 | 709 | 0.990953389 | |
| 5 | 62,550,000 | 62,700,000 | 835 | 629 | -0.048678091 | |
| 5 | 62,625,000 | 62,775,000 | 836 | 547 | -0.577870776 | |
| 5 | 62,700,000 | 62,850,000 | 837 | 717 | 1.07328801 | |
| 5 | 62,775,000 | 62,925,000 | 838 | 1102 | 0.995275123 | |
| 5 | 62,850,000 | 63,000,000 | 839 | 827 | 0.561376697 | |
| 5 | 62,925,000 | 63,075,000 | 840 | 383 | 0.12739191 | TMPO |
| 5 | 63,000,000 | 63,150,000 | 841 | 335 | 0.696081812 | APAF1,IKBIP,SLC25A3,TMPO |
| 5 | 63,075,000 | 63,225,000 | 842 | 415 | 0.500065115 | APAF1,IKBIP,SLC25A3,ENSBTAG00000017385 |
| 5 | 63,150,000 | 63,300,000 | 843 | 489 | 0.408896843 | ANKS1B,APAF1,ENSBTAG00000017385 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 5 | 63,225,000 | 63,375,000 | 844 | 772 | 1.18583127 | ANKS1B |
| 5 | 63,300,000 | 63,450,000 | 845 | 794 | 1.002813048 | ANKS1B |
| 5 | 63,375,000 | 63,525,000 | 846 | 751 | -0.228305991 | ANKS1B |
| 5 | 63,450,000 | 63,600,000 | 847 | 992 | 0.61593199 | ANKS1B |
| 5 | 63,525,000 | 63,675,000 | 848 | 1042 | 0.941452802 | ANKS1B |
| 5 | 63,600,000 | 63,750,000 | 849 | 1139 | 0.63318778 | ANKS1B |
| 5 | 63,675,000 | 63,825,000 | 850 | 1186 | 0.429500602 | |
| 5 | 63,750,000 | 63,900,000 | 851 | 1282 | 0.026781376 | |
| 5 | 63,825,000 | 63,975,000 | 852 | 1514 | 0.248731428 | |
| 5 | 63,900,000 | 64,050,000 | 853 | 1621 | 0.540585232 | |
| 5 | 63,975,000 | 64,125,000 | 854 | 1307 | 0.384528009 | |
| 5 | 64,050,000 | 64,200,000 | 855 | 916 | 0.42379162 | |
| 5 | 64,125,000 | 64,275,000 | 856 | 932 | 0.522014638 | ENSBTAG00000013979 |
| 5 | 64,200,000 | 64,350,000 | 857 | 874 | 0.569635471 | ENSBTAG00000013979 |
| 5 | 64,275,000 | 64,425,000 | 858 | 827 | 0.699563424 | UHRF1BP1L |
| 5 | 64,350,000 | 64,500,000 | 859 | 1050 | 0.82490757 | UHRF1BP1L |
| 5 | 64,425,000 | 64,575,000 | 860 | 1406 | 0.79474744 | ACTR6,SCYL2,UHRF1BP1L |
| 5 | 64,500,000 | 64,650,000 | 861 | 1422 | 0.571448174 | ACTR6,SCYL2,SLC17A8 |
| 5 | 64,575,000 | 64,725,000 | 862 | 968 | 0.44298649 | SCYL2,SLC17A8 |
| 5 | 64,650,000 | 64,800,000 | 863 | 932 | -0.018354167 | NR1H4,SLC17A8 |
| 5 | 64,725,000 | 64,875,000 | 864 | 1182 | 0.265520157 | GAS2L3,NR1H4 |
| 5 | 64,800,000 | 64,950,000 | 865 | 909 | 0.797986554 | GAS2L3,NR1H4 |
| 5 | 64,875,000 | 65,025,000 | 866 | 603 | 0.091595551 | ANO4 |
| 5 | 64,950,000 | 65,100,000 | 867 | 668 | -0.798280765 | ANO4 |
| 5 | 65,025,000 | 65,175,000 | 868 | 848 | -2.756482662 | ANO4 |
| 5 | 65,100,000 | 65,250,000 | 869 | 1004 | -1.773182666 | ANO4 |
| 5 | 65,175,000 | 65,325,000 | 870 | 1093 | 0.389029112 | ANO4 |
| 5 | 65,250,000 | 65,400,000 | 871 | 831 | 0.615381164 | ANO4,SMCT1,ENSBTAG00000047741 |
| 5 | 65,325,000 | 65,475,000 | 872 | 408 | 1.050176392 | ANO4,SMCT1,ENSBTAG00000047741 |
| 5 | 65,400,000 | 65,550,000 | 873 | 288 | 0.391261434 | SMCT1,UTP20 |
| 5 | 65,475,000 | 65,625,000 | 874 | 513 | 0.43130894 | ARL1,UTP20 |
| 5 | 65,550,000 | 65,700,000 | 875 | 746 | 0.084529615 | ARL1,SPIC,UTP20,ENSBTAG00000008020 |
| 5 | 65,625,000 | 65,775,000 | 876 | 603 | 0.120986185 | MYBPC1,SPIC,ENSBTAG00000008020 |
| 5 | 65,700,000 | 65,850,000 | 877 | 410 | 0.684785304 | MYBPC1 |
| 5 | 65,775,000 | 65,925,000 | 878 | 643 | 0.041553446 | CHPT1,GNPTAB,MYBPC1,SYCP3 |
| 5 | 65,850,000 | 66,000,000 | 879 | 708 | 0.105278427 | CHPT1,GNPTAB,SYCP3 |
| 5 | 65,925,000 | 66,075,000 | 880 | 624 | -0.015790004 | FLJ11259,GNPTAB |
| 5 | 66,000,000 | 66,150,000 | 881 | 675 | 0.046823181 | FLJ11259 |
| 5 | 66,075,000 | 66,225,000 | 882 | 482 | 0.342860137 | FLJ11259,ENSBTAG00000000021 |
| 5 | 66,150,000 | 66,300,000 | 883 | 323 | 0.013809086 | NUP37,PARPBP,ENSBTAG00000000021 |
| 5 | 66,225,000 | 66,375,000 | 884 | 266 | -0.224474651 | NUP37,PARPBP,PMCH,ENSBTAG00000000021 |
| 5 | 66,300,000 | 66,450,000 | 885 | 392 | 0.020445961 | PARPBP,PMCH |
| 5 | 66,375,000 | 66,525,000 | 886 | 744 | 0.301648585 | |
| 5 | 66,450,000 | 66,600,000 | 887 | 710 | 0.137118527 | IGF-I |
| 5 | 66,525,000 | 66,675,000 | 888 | 445 | -0.810299156 | IGF-I |
| 5 | 66,600,000 | 66,750,000 | 889 | 468 | -1.03880593 | IGF-I |
| 5 | 66,675,000 | 66,825,000 | 890 | 581 | 0.159101554 | |
| 5 | 66,750,000 | 66,900,000 | 891 | 603 | -0.019527684 | |
| 5 | 66,825,000 | 66,975,000 | 892 | 760 | -1.782052845 | PAH |
| 5 | 66,900,000 | 67,050,000 | 893 | 646 | -2.053980229 | PAH |
| 5 | 66,975,000 | 67,125,000 | 894 | 315 | -0.586917064 | ASCL1,PAH |
| 5 | 67,050,000 | 67,200,000 | 895 | 437 | -0.691186337 | ASCL1 |
| 5 | 67,125,000 | 67,275,000 | 896 | 462 | -0.085046267 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 67,200,000 | 67,350,000 | 897 | 562 | 1.102205023 | |
| 5 | 67,275,000 | 67,425,000 | 898 | 928 | 1.16311584 | |
| 5 | 67,350,000 | 67,500,000 | 899 | 1121 | 1.15314776 | |
| 5 | 67,425,000 | 67,575,000 | 900 | 1217 | 0.823758481 | |
| 5 | 67,500,000 | 67,650,000 | 901 | 1639 | 1.004827872 | STAB2 |
| 5 | 67,575,000 | 67,725,000 | 902 | 1807 | 0.931898361 | STAB2 |
| 5 | 67,650,000 | 67,800,000 | 903 | 1542 | -0.107071632 | NT5DC3,STAB2 |
| 5 | 67,725,000 | 67,875,000 | 904 | 1200 | -0.973006939 | NT5DC3,STAB2,ENSBTAG00000027899 |
| 5 | 67,800,000 | 67,950,000 | 905 | 1040 | -0.245654883 | HSP90B1,NT5DC3,ENSBTAG00000027899 |
| 5 | 67,875,000 | 68,025,000 | 906 | 738 | 0.58258616 | C12orf73,GLT8D2,HSP90B1,TDG,ENSBTAG00000027899 |
| 5 | 67,950,000 | 68,100,000 | 907 | 356 | 0.995921899 | C12orf73,GLT8D2,HCFC2,HSP90B1,TDG |
| 5 | 68,025,000 | 68,175,000 | 908 | 507 | 0.651972313 | GLT8D2,HCFC2,NFYB |
| 5 | 68,100,000 | 68,250,000 | 909 | 767 | 0.006337339 | NFYB,TXNRD1 |
| 5 | 68,175,000 | 68,325,000 | 910 | 1208 | 0.670566936 | TXNRD1 |
| 5 | 68,250,000 | 68,400,000 | 911 | 1101 | 0.741873146 | CHST11,TXNRD1 |
| 5 | 68,325,000 | 68,475,000 | 912 | 649 | 0.227290629 | CHST11 |
| 5 | 68,400,000 | 68,550,000 | 913 | 871 | 0.3700323 | CHST11 |
| 5 | 68,475,000 | 68,625,000 | 914 | 1150 | -0.210272217 | CHST11 |
| 5 | 68,550,000 | 68,700,000 | 915 | 829 | 0.033171943 | CHST11 |
| 5 | 68,625,000 | 68,775,000 | 916 | 473 | 1.346780108 | CHST11,SLC41A2 |
| 5 | 68,700,000 | 68,850,000 | 917 | 713 | 1.283520716 | SLC41A2 |
| 5 | 68,775,000 | 68,925,000 | 918 | 1100 | 0.833680289 | ALDH1L2,C5H12orf45,SLC41A2 |
| 5 | 68,850,000 | 69,000,000 | 919 | 777 | -0.444790812 | ALDH1L2,C5H12orf45,KIAA1033 |
| 5 | 68,925,000 | 69,075,000 | 920 | 513 | -0.44293866 | ALDH1L2,APPL2,KIAA1033 |
| 5 | 69,000,000 | 69,150,000 | 921 | 805 | 0.609756931 | APPL2,KIAA1033 |
| 5 | 69,075,000 | 69,225,000 | 922 | 716 | 0.983960535 | APPL2,C12orf75,ENSBTAG00000047983 |
| 5 | 69,150,000 | 69,300,000 | 923 | 534 | 0.761409005 | C12orf75,ENSBTAG00000047983 |
| 5 | 69,225,000 | 69,375,000 | 924 | 595 | 0.545128376 | |
| 5 | 69,300,000 | 69,450,000 | 925 | 770 | 0.70797418 | |
| 5 | 69,375,000 | 69,525,000 | 926 | 857 | 0.622859054 | |
| 5 | 69,450,000 | 69,600,000 | 927 | 785 | 0.35240842 | |
| 5 | 69,525,000 | 69,675,000 | 928 | 647 | 0.001638468 | |
| 5 | 69,600,000 | 69,750,000 | 929 | 657 | -0.154179457 | |
| 5 | 69,675,000 | 69,825,000 | 930 | 837 | -0.296920208 | NUAK1 |
| 5 | 69,750,000 | 69,900,000 | 931 | 889 | 0.079506883 | NUAK1 |
| 5 | 69,825,000 | 69,975,000 | 932 | 803 | -0.252813041 | CKAP4,NUAK1 |
| 5 | 69,900,000 | 70,050,000 | 933 | 796 | -1.186932231 | CKAP4,TCP11L2 |
| 5 | 69,975,000 | 70,125,000 | 934 | 609 | -1.49334871 | CKAP4,POLR3B,TCP11L2 |
| 5 | 70,050,000 | 70,200,000 | 935 | 261 | -3.901983485 | POLR3B,TCP11L2 |
| 5 | 70,125,000 | 70,275,000 | 936 | 261 | -7.478404119 | POLR3B |
| 5 | 70,200,000 | 70,350,000 | 937 | 339 | -6.659324922 | RFX4 |
| 5 | 70,275,000 | 70,425,000 | 938 | 234 | -3.262660362 | RFX4,RIC8B |
| 5 | 70,350,000 | 70,500,000 | 939 | 147 | -3.794440869 | RFX4,RIC8B |
| 5 | 70,425,000 | 70,575,000 | 940 | 217 | -3.234859805 | RIC8B,TMEM263 |
| 5 | 70,500,000 | 70,650,000 | 941 | 305 | -1.332942867 | CRY1,MTERF2,RIC8B,TMEM263 |
| 5 | 70,575,000 | 70,725,000 | 942 | 432 | -0.487874535 | CRY1,MTERF2,TMEM263 |
| 5 | 70,650,000 | 70,800,000 | 943 | 596 | -0.103430804 | CRY1 |
| 5 | 70,725,000 | 70,875,000 | 944 | 611 | 0.171049639 | |
| 5 | 70,800,000 | 70,950,000 | 945 | 602 | 0.338455696 | BTBD11 |
| 5 | 70,875,000 | 71,025,000 | 946 | 553 | -0.28550245 | BTBD11 |
| 5 | 70,950,000 | 71,100,000 | 947 | 720 | -0.443273774 | BTBD11 |
| 5 | 71,025,000 | 71,175,000 | 948 | 991 | -0.045274282 | BTBD11 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 5 | 71,100,000 | 71,250,000 | 949 | 1200 | 0.557330316 | BTBD11 |
| 5 | 71,175,000 | 71,325,000 | 950 | 1456 | 1.107571481 | BTBD11,PRDM4,PWP1 |
| 5 | 71,250,000 | 71,400,000 | 951 | 1168 | 1.124129884 | ASCL4,BPIFC,BTBD11,PRDM4,PWP1,RTCB |
| 5 | 71,325,000 | 71,475,000 | 952 | 1096 | 1.071097229 | ASCL4,BPIFC,FBXO7,PRDM4,RTCB |
| 5 | 71,400,000 | 71,550,000 | 953 | 1361 | 1.105081983 | BPIFC,FBXO7,SYN3 |
| 5 | 71,475,000 | 71,625,000 | 954 | 1585 | 0.631643223 | SYN3 |
| 5 | 71,550,000 | 71,700,000 | 955 | 2146 | 0.628685827 | SYN3 |
| 5 | 71,625,000 | 71,775,000 | 956 | 1797 | 0.73989457 | SYN3,TIMP3 |
| 5 | 71,700,000 | 71,850,000 | 957 | 892 | 0.652374338 | SYN3,TIMP3 |
| 5 | 71,775,000 | 71,925,000 | 958 | 663 | 0.522704878 | SYN3,TIMP3 |
| 5 | 71,850,000 | 72,000,000 | 959 | 703 | 0.253800825 | SYN3 |
| 5 | 71,925,000 | 72,075,000 | 960 | 697 | 0.387162653 | MGC137211,SYN3,ENSBTAG00000030683 |
| 5 | 72,000,000 | 72,150,000 | 961 | 1079 | 0.698587904 | MGC137014,MGC137211,ENSBTAG00000030683 |
| 5 | 72,075,000 | 72,225,000 | 962 | 1371 | 0.73713554 | LARGE,MGC137014 |
| 5 | 72,150,000 | 72,300,000 | 963 | 1049 | 0.633978915 | LARGE |
| 5 | 72,225,000 | 72,375,000 | 964 | 1092 | 0.765222078 | LARGE |
| 5 | 72,300,000 | 72,450,000 | 965 | 1210 | 0.800322836 | LARGE |
| 5 | 72,375,000 | 72,525,000 | 966 | 893 | 0.735797535 | LARGE |
| 5 | 72,450,000 | 72,600,000 | 967 | 1150 | 1.324676789 | LARGE |
| 5 | 72,525,000 | 72,675,000 | 968 | 1460 | 1.185839297 | LARGE |
| 5 | 72,600,000 | 72,750,000 | 969 | 909 | 0.791629612 | LARGE |
| 5 | 72,675,000 | 72,825,000 | 970 | 489 | 1.1115452 | LARGE |
| 5 | 72,750,000 | 72,900,000 | 971 | 619 | 0.888094468 | LARGE |
| 5 | 72,825,000 | 72,975,000 | 972 | 892 | 0.601095373 | |
| 5 | 72,900,000 | 73,050,000 | 973 | 933 | 0.381743367 | |
| 5 | 72,975,000 | 73,125,000 | 974 | 979 | -0.628380331 | |
| 5 | 73,050,000 | 73,200,000 | 975 | 1327 | -0.046555669 | |
| 5 | 73,125,000 | 73,275,000 | 976 | 1499 | 0.598802313 | |
| 5 | 73,200,000 | 73,350,000 | 977 | 1391 | 0.522756761 | |
| 5 | 73,275,000 | 73,425,000 | 978 | 911 | 0.728342239 | |
| 5 | 73,350,000 | 73,500,000 | 979 | 811 | -0.359861127 | |
| 5 | 73,425,000 | 73,575,000 | 980 | 882 | -0.643043384 | |
| 5 | 73,500,000 | 73,650,000 | 981 | 976 | 0.714420609 | |
| 5 | 73,575,000 | 73,725,000 | 982 | 991 | 0.669678396 | ISX |
| 5 | 73,650,000 | 73,800,000 | 983 | 755 | -0.662654024 | ISX |
| 5 | 73,725,000 | 73,875,000 | 984 | 942 | -1.145334592 | HMGXB4,ISX |
| 5 | 73,800,000 | 73,950,000 | 985 | 1021 | 0.085601265 | HMGXB4,TOM1 |
| 5 | 73,875,000 | 74,025,000 | 986 | 869 | 0.661273593 | HMGXB4,HMOX1,MCM5,TOM1 |
| 5 | 73,950,000 | 74,100,000 | 987 | 1095 | 0.479447111 | HMOX1,MCM5 |
| 5 | 74,025,000 | 74,175,000 | 988 | 1004 | 0.462433309 | MB,RASD2 |
| 5 | 74,100,000 | 74,250,000 | 989 | 634 | 0.991055531 | APOL6,MB,RASD2 |
| 5 | 74,175,000 | 74,325,000 | 990 | 579 | 1.428022143 | APOL6,MB,RBFOX2 |
| 5 | 74,250,000 | 74,400,000 | 991 | 389 | 1.389065901 | RBFOX2 |
| 5 | 74,325,000 | 74,475,000 | 992 | 340 | 1.075483705 | RBFOX2 |
| 5 | 74,400,000 | 74,550,000 | 993 | 337 | 0.992459948 | RBFOX2 |
| 5 | 74,475,000 | 74,625,000 | 994 | 389 | 0.496286756 | |
| 5 | 74,550,000 | 74,700,000 | 995 | 873 | -0.320700722 | ENSBTAG00000037799,ENSBTAG00000046392 |
| 5 | 74,625,000 | 74,775,000 | 996 | 994 | -0.169922421 | ENSBTAG00000037799,ENSBTAG00000046392 |
| 5 | 74,700,000 | 74,850,000 | 997 | 784 | 0.616518901 | |
| 5 | 74,775,000 | 74,925,000 | 998 | 1717 | 0.459852236 | ENSBTAG00000039524 |
| 5 | 74,850,000 | 75,000,000 | 999 | 2057 | 0.245596301 | APOL3,ENSBTAG00000012192,ENSBTAG00000038652 ,ENSBTAG00000039524 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 5 | 74,925,000 | 75,075,000 | 1000 | 1741 | 0.554158888 | APOL3,ENSBTAG00000012192,ENSBTAG00000038652 |
| 5 | 75,000,000 | 75,150,000 | 1001 | 1652 | 0.57811398 | APOL3,MYH9,ENSBTAG00000012192 |
| 5 | 75,075,000 | 75,225,000 | 1002 | 1278 | 0.02161395 | APOL3,MYH9 |
| 5 | 75,150,000 | 75,300,000 | 1003 | 1240 | 0.938289462 | EIF3D,FOXRED2,MYH9,TXN2 |
| 5 | 75,225,000 | 75,375,000 | 1004 | 1197 | 1.536492004 | CACNG2,EIF3D,FOXRED2,TXN2 |
| 5 | 75,300,000 | 75,450,000 | 1005 | 1020 | 1.486314755 | CACNG2,EIF3D |
| 5 | 75,375,000 | 75,525,000 | 1006 | 922 | 1.418906706 | CACNG2,IFT27,ENSBTAG00000008137 |
| 5 | 75,450,000 | 75,600,000 | 1007 | 1132 | 0.926595584 | CACNG2,IFT27,PVALB,ENSBTAG00000008137 |
| 5 | 75,525,000 | 75,675,000 | 1008 | 1376 | 0.667472293 | IFT27,NCF4,PVALB |
| 5 | 75,600,000 | 75,750,000 | 1009 | 1464 | 0.521886155 | CSF2RB,NCF4 |
| 5 | 75,675,000 | 75,825,000 | 1010 | 1164 | 0.396573983 | CSF2RB,MGC133880,MPST,TST |
| 5 | 75,750,000 | 75,900,000 | 1011 | 862 | 0.701053534 | KCTD17,MGC133880,MPST,TMPRSS6,TST |
| 5 | 75,825,000 | 75,975,000 | 1012 | 989 | 1.135250944 | IL2RB,KCTD17,MPST,TMPRSS6 |
| 5 | 75,900,000 | 76,050,000 | 1013 | 1042 | 0.906683093 | C1QTNF6,IL2RB,RAC2,SSTR3,TMPRSS6 |
| 5 | 75,975,000 | 76,125,000 | 1014 | 967 | 0.499659589 | C1QTNF6,CYTH4,RAC2,SSTR3 |
| 5 | 76,050,000 | 76,200,000 | 1015 | 609 | 0.440992564 | CYTH4,ELFN2,RAC2 |
| 5 | 76,125,000 | 76,275,000 | 1016 | 364 | 0.185685107 | ELFN2,MFNG |
| 5 | 76,200,000 | 76,350,000 | 1017 | 808 | 0.420831272 | CARD10,MFNG |
| 5 | 76,275,000 | 76,425,000 | 1018 | 1071 | 0.300144507 | CARD10,MFNG,USP18 |
| 5 | 76,350,000 | 76,500,000 | 1019 | 1043 | 0.475992428 | ALG10,USP18 |
| 5 | 76,425,000 | 76,575,000 | 1020 | 821 | 0.76605487 | ALG10 |
| 5 | 76,500,000 | 76,650,000 | 1021 | 448 | 0.475213597 | ALG10 |
| 5 | 76,575,000 | 76,725,000 | 1022 | 408 | 0.180899269 | SYT10 |
| 5 | 76,650,000 | 76,800,000 | 1023 | 393 | 0.031545535 | SYT10 |
| 5 | 76,725,000 | 76,875,000 | 1024 | 402 | 0.33938931 | SYT10 |
| 5 | 76,800,000 | 76,950,000 | 1025 | 464 | 0.355200145 | SYT10 |
| 5 | 76,875,000 | 77,025,000 | 1026 | 616 | 0.151201997 | |
| 5 | 76,950,000 | 77,100,000 | 1027 | 983 | 0.798192664 | |
| 5 | 77,025,000 | 77,175,000 | 1028 | 1297 | 1.140271863 | |
| 5 | 77,100,000 | 77,250,000 | 1029 | 1360 | 0.853865517 | |
| 5 | 77,175,000 | 77,325,000 | 1030 | 1284 | 0.460916006 | |
| 5 | 77,250,000 | 77,400,000 | 1031 | 1176 | 0.95627718 | PKP2 |
| 5 | 77,325,000 | 77,475,000 | 1032 | 815 | 1.262729344 | PKP2 |
| 5 | 77,400,000 | 77,550,000 | 1033 | 656 | 1.462695459 | DNM1L,PKP2,YARS2 |
| 5 | 77,475,000 | 77,625,000 | 1034 | 920 | 1.347924634 | DNM1L,FGD4,YARS2 |
| 5 | 77,550,000 | 77,700,000 | 1035 | 743 | 1.062977314 | DNM1L,FGD4 |
| 5 | 77,625,000 | 77,775,000 | 1036 | 680 | -0.001043716 | FGD4 |
| 5 | 77,700,000 | 77,850,000 | 1037 | 617 | -1.539137468 | |
| 5 | 77,775,000 | 77,925,000 | 1038 | 350 | -1.944673077 | BICD1 |
| 5 | 77,850,000 | 78,000,000 | 1039 | 879 | 1.212263932 | BICD1 |
| 5 | 77,925,000 | 78,075,000 | 1040 | 1127 | 1.108373196 | |
| 5 | 78,000,000 | 78,150,000 | 1041 | 696 | 0.269192414 | |
| 5 | 78,075,000 | 78,225,000 | 1042 | 835 | -0.31171636 | |
| 5 | 78,150,000 | 78,300,000 | 1043 | 956 | -1.146729494 | KIAA1551 |
| 5 | 78,225,000 | 78,375,000 | 1044 | 793 | -2.048599052 | KIAA1551 |
| 5 | 78,300,000 | 78,450,000 | 1045 | 1301 | -1.63638449 | KIAA1551 |
| 5 | 78,375,000 | 78,525,000 | 1046 | 1336 | -1.387943118 | |
| 5 | 78,450,000 | 78,600,000 | 1047 | 1079 | -0.207007124 | AMN1 |
| 5 | 78,525,000 | 78,675,000 | 1048 | 1168 | -0.27494051 | AMN1,METTTL20 |
| 5 | 78,600,000 | 78,750,000 | 1049 | 766 | -1.609006104 | AMN1,METTTL20 |
| 5 | 78,675,000 | 78,825,000 | 1050 | 460 | -1.756497053 | |
| 5 | 78,750,000 | 78,900,000 | 1051 | 674 | -0.181862635 | DENND5B |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 5 | 78,825,000 | 78,975,000 | 1052 | 915 | -0.657947686 | DENND5B |
| 5 | 78,900,000 | 79,050,000 | 1053 | 662 | -1.096837961 | DENND5B,FAM60A |
| 5 | 78,975,000 | 79,125,000 | 1054 | 501 | -0.194973212 | FAM60A |
| 5 | 79,050,000 | 79,200,000 | 1055 | 435 | 0.677958536 | CAPRIN2,FAM60A |
| 5 | 79,125,000 | 79,275,000 | 1056 | 402 | 0.861631144 | CAPRIN2,IPO8 |
| 5 | 79,200,000 | 79,350,000 | 1057 | 508 | 0.919163172 | CAPRIN2,IPO8 |
| 5 | 79,275,000 | 79,425,000 | 1058 | 420 | 0.229430901 | IPO8 |
| 5 | 79,350,000 | 79,500,000 | 1059 | 333 | -1.036775627 | |
| 5 | 79,425,000 | 79,575,000 | 1060 | 261 | -1.028401486 | |
| 5 | 79,500,000 | 79,650,000 | 1061 | 471 | -0.189778227 | |
| 5 | 79,575,000 | 79,725,000 | 1062 | 938 | -1.019248042 | |
| 5 | 79,650,000 | 79,800,000 | 1063 | 1226 | -2.191516423 | |
| 5 | 79,725,000 | 79,875,000 | 1064 | 1200 | -1.769623356 | |
| 5 | 79,800,000 | 79,950,000 | 1065 | 918 | -0.386211576 | |
| 5 | 79,875,000 | 80,025,000 | 1066 | 933 | -0.088565061 | |
| 5 | 79,950,000 | 80,100,000 | 1067 | 1156 | -0.030963148 | |
| 5 | 80,025,000 | 80,175,000 | 1068 | 966 | 0.010408465 | |
| 5 | 80,100,000 | 80,250,000 | 1069 | 688 | -0.324735595 | TMTC1 |
| 5 | 80,175,000 | 80,325,000 | 1070 | 452 | 0.092044919 | TMTC1 |
| 5 | 80,250,000 | 80,400,000 | 1071 | 356 | 0.541014064 | TMTC1 |
| 5 | 80,325,000 | 80,475,000 | 1072 | 616 | 0.481057688 | TMTC1 |
| 5 | 80,400,000 | 80,550,000 | 1073 | 868 | -0.265485599 | OVCH1,TMTC1 |
| 5 | 80,475,000 | 80,625,000 | 1074 | 797 | -0.919125339 | ERGIC2,OVCH1,TMTC1 |
| 5 | 80,550,000 | 80,700,000 | 1075 | 515 | -0.849278862 | ERGIC2,FAR2,OVCH1 |
| 5 | 80,625,000 | 80,775,000 | 1076 | 331 | -0.989910072 | ERGIC2,FAR2 |
| 5 | 80,700,000 | 80,850,000 | 1077 | 279 | -0.014927211 | FAR2 |
| 5 | 80,775,000 | 80,925,000 | 1078 | 452 | -1.003732351 | |
| 5 | 80,850,000 | 81,000,000 | 1079 | 1127 | -0.641230369 | |
| 5 | 80,925,000 | 81,075,000 | 1080 | 1216 | -0.160656243 | |
| 5 | 81,000,000 | 81,150,000 | 1081 | 794 | 0.439702665 | |
| 5 | 81,075,000 | 81,225,000 | 1082 | 734 | 0.635030135 | |
| 5 | 81,150,000 | 81,300,000 | 1083 | 512 | -1.350931138 | |
| 5 | 81,225,000 | 81,375,000 | 1084 | 443 | -1.429543979 | |
| 5 | 81,300,000 | 81,450,000 | 1085 | 620 | -0.021354495 | |
| 5 | 81,375,000 | 81,525,000 | 1086 | 639 | 0.35399739 | |
| 5 | 81,450,000 | 81,600,000 | 1087 | 472 | 0.354343448 | CCDC91 |
| 5 | 81,525,000 | 81,675,000 | 1088 | 371 | -0.297200132 | CCDC91 |
| 5 | 81,600,000 | 81,750,000 | 1089 | 429 | -1.212475037 | CCDC91 |
| 5 | 81,675,000 | 81,825,000 | 1090 | 451 | -0.701229061 | CCDC91 |
| 5 | 81,750,000 | 81,900,000 | 1091 | 340 | -0.48874603 | CCDC91 |
| 5 | 81,825,000 | 81,975,000 | 1092 | 244 | -1.24540242 | CCDC91 |
| 5 | 81,900,000 | 82,050,000 | 1093 | 268 | -3.422198838 | CCDC91 |
| 5 | 81,975,000 | 82,125,000 | 1094 | 384 | -6.705643673 | CCDC91 |
| 5 | 82,050,000 | 82,200,000 | 1095 | 431 | -5.298997607 | |
| 5 | 82,125,000 | 82,275,000 | 1096 | 426 | -0.44158299 | PTHLH |
| 5 | 82,200,000 | 82,350,000 | 1097 | 631 | -0.381763328 | PTHLH |
| 5 | 82,275,000 | 82,425,000 | 1098 | 707 | -0.979579446 | |
| 5 | 82,350,000 | 82,500,000 | 1099 | 730 | 0.34694938 | KLHL42,MANSC4,MRPS35 |
| 5 | 82,425,000 | 82,575,000 | 1100 | 898 | 0.328861466 | KLHL42,MANSC4,MRPS35,PPFIBP1,REP15 |
| 5 | 82,500,000 | 82,650,000 | 1101 | 1045 | 0.082238075 | MRPS35,PPFIBP1,REP15 |
| 5 | 82,575,000 | 82,725,000 | 1102 | 916 | 0.407608598 | C12orf71,PPFIBP1 |
| 5 | 82,650,000 | 82,800,000 | 1103 | 762 | 0.203231832 | C12orf71,SMCO2 |
| 5 | 82,725,000 | 82,875,000 | 1104 | 1057 | 0.255160673 | SMCO2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------------|
| 5 | 82,800,000 | 82,950,000 | 1105 | 1077 | -0.005669259 | ARNTL2,SMCO2 |
| 5 | 82,875,000 | 83,025,000 | 1106 | 831 | -0.512385487 | ARNTL2,STK38L |
| 5 | 82,950,000 | 83,100,000 | 1107 | 660 | -0.476237508 | STK38L |
| 5 | 83,025,000 | 83,175,000 | 1108 | 563 | -0.533046075 | STK38L |
| 5 | 83,100,000 | 83,250,000 | 1109 | 576 | 0.352654331 | MED21,TM7SF3 |
| 5 | 83,175,000 | 83,325,000 | 1110 | 499 | 0.565950758 | C5H12ORF11,FGFR1OP2,MED21,TM7SF3 |
| 5 | 83,250,000 | 83,400,000 | 1111 | 377 | 0.954247847 | C5H12ORF11,FGFR1OP2,ITPR2 |
| 5 | 83,325,000 | 83,475,000 | 1112 | 399 | 0.962692583 | ITPR2 |
| 5 | 83,400,000 | 83,550,000 | 1113 | 594 | 0.829794351 | ITPR2 |
| 5 | 83,475,000 | 83,625,000 | 1114 | 749 | 0.791437344 | ITPR2 |
| 5 | 83,550,000 | 83,700,000 | 1115 | 668 | 0.507323764 | ITPR2 |
| 5 | 83,625,000 | 83,775,000 | 1116 | 599 | 0.193625582 | ITPR2 |
| 5 | 83,700,000 | 83,850,000 | 1117 | 740 | 0.637259703 | ITPR2 |
| 5 | 83,775,000 | 83,925,000 | 1118 | 675 | 0.361470018 | ITPR2 |
| 5 | 83,850,000 | 84,000,000 | 1119 | 561 | 0.393953093 | ITPR2 |
| 5 | 83,925,000 | 84,075,000 | 1120 | 570 | 0.862848092 | ITPR2 |
| 5 | 84,000,000 | 84,150,000 | 1121 | 407 | 0.38624363 | SSPN |
| 5 | 84,075,000 | 84,225,000 | 1122 | 474 | 0.585040313 | SSPN |
| 5 | 84,150,000 | 84,300,000 | 1123 | 667 | -0.372868513 | BHLHE41,C12ORF2 |
| 5 | 84,225,000 | 84,375,000 | 1124 | 723 | -2.189252333 | BHLHE41,C12ORF2 |
| 5 | 84,300,000 | 84,450,000 | 1125 | 662 | -1.179304241 | C12ORF2 |
| 5 | 84,375,000 | 84,525,000 | 1126 | 652 | -1.537265156 | |
| 5 | 84,450,000 | 84,600,000 | 1127 | 557 | -1.756920089 | |
| 5 | 84,525,000 | 84,675,000 | 1128 | 528 | 0.779202913 | |
| 5 | 84,600,000 | 84,750,000 | 1129 | 948 | 0.576077556 | |
| 5 | 84,675,000 | 84,825,000 | 1130 | 1263 | 0.666259613 | ENSBTAG00000046108 |
| 5 | 84,750,000 | 84,900,000 | 1131 | 814 | 0.805846597 | LMNTD1,ENSBTAG00000046108 |
| 5 | 84,825,000 | 84,975,000 | 1132 | 615 | -1.722665199 | LMNTD1 |
| 5 | 84,900,000 | 85,050,000 | 1133 | 656 | -1.872310297 | |
| 5 | 84,975,000 | 85,125,000 | 1134 | 466 | -0.513739409 | |
| 5 | 85,050,000 | 85,200,000 | 1135 | 523 | -1.207446769 | KRAS |
| 5 | 85,125,000 | 85,275,000 | 1136 | 556 | -2.113710643 | CASC1,KRAS,LYRM5 |
| 5 | 85,200,000 | 85,350,000 | 1137 | 436 | -1.431191328 | CASC1,KRAS,LRMP,LYRM5 |
| 5 | 85,275,000 | 85,425,000 | 1138 | 548 | 0.307064255 | CASC1,LRMP |
| 5 | 85,350,000 | 85,500,000 | 1139 | 1159 | -0.026876506 | BCAT1,LRMP |
| 5 | 85,425,000 | 85,575,000 | 1140 | 1480 | 0.227194464 | BCAT1 |
| 5 | 85,500,000 | 85,650,000 | 1141 | 1325 | 0.522249025 | BCAT1 |
| 5 | 85,575,000 | 85,725,000 | 1142 | 935 | -0.397698916 | BCAT1 |
| 5 | 85,650,000 | 85,800,000 | 1143 | 865 | -0.627775212 | |
| 5 | 85,725,000 | 85,875,000 | 1144 | 973 | 0.356744112 | |
| 5 | 85,800,000 | 85,950,000 | 1145 | 822 | 0.669531832 | |
| 5 | 85,875,000 | 86,025,000 | 1146 | 830 | 0.766548333 | |
| 5 | 85,950,000 | 86,100,000 | 1147 | 1030 | 0.609047433 | |
| 5 | 86,025,000 | 86,175,000 | 1148 | 1101 | 0.2859857 | |
| 5 | 86,100,000 | 86,250,000 | 1149 | 1141 | -0.170099194 | |
| 5 | 86,175,000 | 86,325,000 | 1150 | 1211 | 0.376650678 | |
| 5 | 86,250,000 | 86,400,000 | 1151 | 1050 | 0.748801261 | |
| 5 | 86,325,000 | 86,475,000 | 1152 | 798 | 0.142498068 | |
| 5 | 86,400,000 | 86,550,000 | 1153 | 639 | -0.898176797 | |
| 5 | 86,475,000 | 86,625,000 | 1154 | 574 | -0.715137522 | SOX5 |
| 5 | 86,550,000 | 86,700,000 | 1155 | 690 | 0.587789113 | SOX5 |
| 5 | 86,625,000 | 86,775,000 | 1156 | 803 | 0.801709524 | SOX5 |
| 5 | 86,700,000 | 86,850,000 | 1157 | 881 | 0.796904936 | SOX5 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 5 | 86,775,000 | 86,925,000 | 1158 | 859 | 0.877764281 | SOX5 |
| 5 | 86,850,000 | 87,000,000 | 1159 | 727 | 0.426154381 | SOX5 |
| 5 | 86,925,000 | 87,075,000 | 1160 | 737 | 0.332384658 | SOX5 |
| 5 | 87,000,000 | 87,150,000 | 1161 | 960 | 0.393959727 | SOX5 |
| 5 | 87,075,000 | 87,225,000 | 1162 | 1195 | 0.448492027 | |
| 5 | 87,150,000 | 87,300,000 | 1163 | 1115 | 0.321106565 | |
| 5 | 87,225,000 | 87,375,000 | 1164 | 894 | -0.132527783 | |
| 5 | 87,300,000 | 87,450,000 | 1165 | 980 | -0.561201145 | |
| 5 | 87,375,000 | 87,525,000 | 1166 | 1095 | 0.325819518 | |
| 5 | 87,450,000 | 87,600,000 | 1167 | 990 | 0.795625446 | |
| 5 | 87,525,000 | 87,675,000 | 1168 | 794 | -0.30576235 | |
| 5 | 87,600,000 | 87,750,000 | 1169 | 543 | 0.006849356 | |
| 5 | 87,675,000 | 87,825,000 | 1170 | 562 | 0.981771333 | |
| 5 | 87,750,000 | 87,900,000 | 1171 | 817 | 1.065610805 | |
| 5 | 87,825,000 | 87,975,000 | 1172 | 644 | 0.877495982 | ETNK1 |
| 5 | 87,900,000 | 88,050,000 | 1173 | 350 | 0.321981196 | ETNK1 |
| 5 | 87,975,000 | 88,125,000 | 1174 | 457 | 0.267213257 | C2CD5,ETNK1 |
| 5 | 88,050,000 | 88,200,000 | 1175 | 638 | 0.473296533 | C2CD5 |
| 5 | 88,125,000 | 88,275,000 | 1176 | 889 | 0.43493102 | C2CD5 |
| 5 | 88,200,000 | 88,350,000 | 1177 | 752 | 0.090142119 | ST8SIA1 |
| 5 | 88,275,000 | 88,425,000 | 1178 | 485 | -0.741126 | ST8SIA1 |
| 5 | 88,350,000 | 88,500,000 | 1179 | 552 | -0.312564223 | ST8SIA1 |
| 5 | 88,425,000 | 88,575,000 | 1180 | 536 | 0.08368871 | CMAS,ST8SIA1,ENSBTAG00000026611 |
| 5 | 88,500,000 | 88,650,000 | 1181 | 728 | -0.252970527 | CMAS,ENSBTAG00000026611 |
| 5 | 88,575,000 | 88,725,000 | 1182 | 724 | -0.236997215 | ABCC9,CMAS |
| 5 | 88,650,000 | 88,800,000 | 1183 | 708 | -0.493515752 | ABCC9 |
| 5 | 88,725,000 | 88,875,000 | 1184 | 859 | 0.191767774 | ABCC9,KCNJ8 |
| 5 | 88,800,000 | 88,950,000 | 1185 | 742 | 0.966703154 | ABCC9,KCNJ8 |
| 5 | 88,875,000 | 89,025,000 | 1186 | 973 | 0.403292132 | GYS2,LDHB |
| 5 | 88,950,000 | 89,100,000 | 1187 | 1404 | 0.249886666 | C5H12orf39,GYS2,LDHB |
| 5 | 89,025,000 | 89,175,000 | 1188 | 1121 | -0.032166974 | C5H12orf39,GOLT1B,GYS2,PYROXD1,RECQL |
| 5 | 89,100,000 | 89,250,000 | 1189 | 851 | -1.018654535 | GOLT1B,IAPP,PYROXD1,RECQL |
| 5 | 89,175,000 | 89,325,000 | 1190 | 825 | -1.488748673 | IAPP,PYROXD1,SLCO1A2,ENSBTAG00000022329 |
| 5 | 89,250,000 | 89,400,000 | 1191 | 700 | -2.030559083 | SLCO1A2,ENSBTAG00000016876,ENSBTAG00000022329 |
| 5 | 89,325,000 | 89,475,000 | 1192 | 713 | -1.077087335 | SLCO1C1,ENSBTAG00000016876,ENSBTAG00000022329 |
| 5 | 89,400,000 | 89,550,000 | 1193 | 950 | -0.108434381 | SLCO1C1 |
| 5 | 89,475,000 | 89,625,000 | 1194 | 1057 | -0.289414116 | PDE3A,SLCO1C1 |
| 5 | 89,550,000 | 89,700,000 | 1195 | 890 | -0.575000446 | PDE3A |
| 5 | 89,625,000 | 89,775,000 | 1196 | 690 | -0.240820425 | |
| 5 | 89,700,000 | 89,850,000 | 1197 | 657 | -0.121749173 | |
| 5 | 89,775,000 | 89,925,000 | 1198 | 685 | 0.396579111 | |
| 5 | 89,850,000 | 90,000,000 | 1199 | 462 | 0.788060548 | |
| 5 | 89,925,000 | 90,075,000 | 1200 | 767 | 0.018027527 | |
| 5 | 90,000,000 | 90,150,000 | 1201 | 1025 | -0.094140372 | |
| 5 | 90,075,000 | 90,225,000 | 1202 | 858 | -0.472365231 | |
| 5 | 90,150,000 | 90,300,000 | 1203 | 886 | -1.721963135 | |
| 5 | 90,225,000 | 90,375,000 | 1204 | 992 | -1.635957423 | |
| 5 | 90,300,000 | 90,450,000 | 1205 | 1024 | -0.529256713 | |
| 5 | 90,375,000 | 90,525,000 | 1206 | 965 | 0.200487796 | |
| 5 | 90,450,000 | 90,600,000 | 1207 | 786 | 0.56900355 | |
| 5 | 90,525,000 | 90,675,000 | 1208 | 534 | 0.988405368 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------------------------|
| 5 | 90,600,000 | 90,750,000 | 1209 | 456 | 1.035725095 | |
| 5 | 90,675,000 | 90,825,000 | 1210 | 501 | 0.048184894 | |
| 5 | 90,750,000 | 90,900,000 | 1211 | 580 | 0.118662467 | AEBP2 |
| 5 | 90,825,000 | 90,975,000 | 1212 | 726 | 0.761037267 | AEBP2 |
| 5 | 90,900,000 | 91,050,000 | 1213 | 776 | -0.939917169 | AEBP2,PLEKHA5 |
| 5 | 90,975,000 | 91,125,000 | 1214 | 719 | -2.071243521 | PLEKHA5 |
| 5 | 91,050,000 | 91,200,000 | 1215 | 692 | 0.153721025 | PLEKHA5 |
| 5 | 91,125,000 | 91,275,000 | 1216 | 581 | 0.391866789 | PLEKHA5 |
| 5 | 91,200,000 | 91,350,000 | 1217 | 525 | 0.36985357 | |
| 5 | 91,275,000 | 91,425,000 | 1218 | 613 | 0.87003138 | |
| 5 | 91,350,000 | 91,500,000 | 1219 | 782 | 0.097464857 | |
| 5 | 91,425,000 | 91,575,000 | 1220 | 652 | 0.040809281 | |
| 5 | 91,500,000 | 91,650,000 | 1221 | 417 | 1.248237733 | |
| 5 | 91,575,000 | 91,725,000 | 1222 | 509 | 1.479853961 | |
| 5 | 91,650,000 | 91,800,000 | 1223 | 722 | 1.211016244 | CAPZA3,PLCZ1 |
| 5 | 91,725,000 | 91,875,000 | 1224 | 1090 | 1.007506301 | CAPZA3,PIK3C2G,PLCZ1 |
| 5 | 91,800,000 | 91,950,000 | 1225 | 1374 | 0.606662963 | PIK3C2G,PLCZ1,ENSBTAG00000047048 |
| 5 | 91,875,000 | 92,025,000 | 1226 | 1041 | 0.247713628 | PIK3C2G,ENSBTAG00000047048 |
| 5 | 91,950,000 | 92,100,000 | 1227 | 637 | -0.280751037 | PIK3C2G |
| 5 | 92,025,000 | 92,175,000 | 1228 | 846 | -0.756844444 | PIK3C2G |
| 5 | 92,100,000 | 92,250,000 | 1229 | 945 | -0.408087804 | PIK3C2G |
| 5 | 92,175,000 | 92,325,000 | 1230 | 757 | -1.629066957 | PIK3C2G |
| 5 | 92,250,000 | 92,400,000 | 1231 | 585 | -4.696457218 | PIK3C2G |
| 5 | 92,325,000 | 92,475,000 | 1232 | 699 | -2.727767565 | RERGL |
| 5 | 92,400,000 | 92,550,000 | 1233 | 1010 | -1.089256291 | RERGL |
| 5 | 92,475,000 | 92,625,000 | 1234 | 850 | -0.462261403 | |
| 5 | 92,550,000 | 92,700,000 | 1235 | 558 | -0.595429922 | |
| 5 | 92,625,000 | 92,775,000 | 1236 | 620 | -1.952176381 | |
| 5 | 92,700,000 | 92,850,000 | 1237 | 752 | -2.563194009 | |
| 5 | 92,775,000 | 92,925,000 | 1238 | 884 | -1.415157883 | |
| 5 | 92,850,000 | 93,000,000 | 1239 | 813 | -0.236366418 | |
| 5 | 92,925,000 | 93,075,000 | 1240 | 884 | 0.713538303 | |
| 5 | 93,000,000 | 93,150,000 | 1241 | 918 | -0.096377843 | |
| 5 | 93,075,000 | 93,225,000 | 1242 | 749 | -1.667641191 | |
| 5 | 93,150,000 | 93,300,000 | 1243 | 791 | -0.925842899 | |
| 5 | 93,225,000 | 93,375,000 | 1244 | 759 | 0.63971581 | |
| 5 | 93,300,000 | 93,450,000 | 1245 | 432 | 0.751949261 | |
| 5 | 93,375,000 | 93,525,000 | 1246 | 332 | 0.258775689 | |
| 5 | 93,450,000 | 93,600,000 | 1247 | 556 | 0.526135675 | |
| 5 | 93,525,000 | 93,675,000 | 1248 | 585 | 1.008739942 | |
| 5 | 93,600,000 | 93,750,000 | 1249 | 415 | 0.402105958 | LMO3 |
| 5 | 93,675,000 | 93,825,000 | 1250 | 515 | 0.328571952 | LMO3 |
| 5 | 93,750,000 | 93,900,000 | 1251 | 814 | 0.948660109 | LMO3 |
| 5 | 93,825,000 | 93,975,000 | 1252 | 1019 | 0.958751645 | MGST1 |
| 5 | 93,900,000 | 94,050,000 | 1253 | 931 | 0.615225486 | MGST1,SLC15A5 |
| 5 | 93,975,000 | 94,125,000 | 1254 | 900 | 0.799286373 | SLC15A5 |
| 5 | 94,050,000 | 94,200,000 | 1255 | 1021 | 0.750021046 | SLC15A5 |
| 5 | 94,125,000 | 94,275,000 | 1256 | 1460 | 0.825659681 | SLC15A5 |
| 5 | 94,200,000 | 94,350,000 | 1257 | 1811 | 1.182580039 | DERA |
| 5 | 94,275,000 | 94,425,000 | 1258 | 1802 | 1.267966417 | COX6B1,DERA |
| 5 | 94,350,000 | 94,500,000 | 1259 | 1378 | 1.027023731 | COX6B1,DERA,STRAP |
| 5 | 94,425,000 | 94,575,000 | 1260 | 917 | 0.356863059 | DERA,STRAP |
| 5 | 94,500,000 | 94,650,000 | 1261 | 1042 | -0.310347643 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 5 | 94,575,000 | 94,725,000 | 1262 | 792 | -0.398743078 | EPS8 |
| 5 | 94,650,000 | 94,800,000 | 1263 | 739 | 0.308495759 | EPS8,PTPRO |
| 5 | 94,725,000 | 94,875,000 | 1264 | 835 | 0.655347598 | EPS8,PTPRO |
| 5 | 94,800,000 | 94,950,000 | 1265 | 800 | 1.035946206 | PTPRO |
| 5 | 94,875,000 | 95,025,000 | 1266 | 823 | 1.090956063 | PTPRO |
| 5 | 94,950,000 | 95,100,000 | 1267 | 640 | 0.915601473 | RERG |
| 5 | 95,025,000 | 95,175,000 | 1268 | 695 | 0.405400675 | RERG |
| 5 | 95,100,000 | 95,250,000 | 1269 | 744 | -0.271764409 | RERG |
| 5 | 95,175,000 | 95,325,000 | 1270 | 575 | -0.527521412 | RERG |
| 5 | 95,250,000 | 95,400,000 | 1271 | 566 | 0.69550351 | ARHGDIB,ERP27,PDE6H |
| 5 | 95,325,000 | 95,475,000 | 1272 | 766 | 1.084047243 | ARHGDIB,ERP27,MGP,PDE6H |
| 5 | 95,400,000 | 95,550,000 | 1273 | 691 | 1.017281375 | ART4,C12orf60,ERP27,MGP,SMCO3,ENSBTAG00000014759 |
| 5 | 95,475,000 | 95,625,000 | 1274 | 530 | -0.458868895 | ART4,C12orf60,GUCY2C,H2AFJ,SMCO3,ENSBTAG00000014759,ENSBTAG00000030504 |
| 5 | 95,550,000 | 95,700,000 | 1275 | 455 | -0.47243353 | GUCY2C,H2AFJ,ENSBTAG00000030504 |
| 5 | 95,625,000 | 95,775,000 | 1276 | 340 | 0.919878071 | GUCY2C,PLBD1 |
| 5 | 95,700,000 | 95,850,000 | 1277 | 324 | 0.906013555 | ATF7IP,PLBD1 |
| 5 | 95,775,000 | 95,925,000 | 1278 | 266 | 0.310445221 | ATF7IP,PLBD1 |
| 5 | 95,850,000 | 96,000,000 | 1279 | 243 | 0.295499625 | ATF7IP |
| 5 | 95,925,000 | 96,075,000 | 1280 | 574 | 0.503442781 | |
| 5 | 96,000,000 | 96,150,000 | 1281 | 896 | 0.495626016 | |
| 5 | 96,075,000 | 96,225,000 | 1282 | 1193 | -0.401433628 | |
| 5 | 96,150,000 | 96,300,000 | 1283 | 1199 | -0.031148664 | |
| 5 | 96,225,000 | 96,375,000 | 1284 | 735 | 1.117240269 | |
| 5 | 96,300,000 | 96,450,000 | 1285 | 723 | 0.495047524 | GRIN2B |
| 5 | 96,375,000 | 96,525,000 | 1286 | 689 | 0.046943442 | GRIN2B |
| 5 | 96,450,000 | 96,600,000 | 1287 | 567 | 0.70421564 | GRIN2B |
| 5 | 96,525,000 | 96,675,000 | 1288 | 862 | 0.068777335 | GRIN2B |
| 5 | 96,600,000 | 96,750,000 | 1289 | 1144 | -0.152406241 | GRIN2B |
| 5 | 96,675,000 | 96,825,000 | 1290 | 1133 | 0.756430741 | GRIN2B |
| 5 | 96,750,000 | 96,900,000 | 1291 | 966 | 1.267735059 | GRIN2B |
| 5 | 96,825,000 | 96,975,000 | 1292 | 746 | 1.231174333 | |
| 5 | 96,900,000 | 97,050,000 | 1293 | 726 | 0.934336412 | |
| 5 | 96,975,000 | 97,125,000 | 1294 | 899 | 0.985378161 | EMP1 |
| 5 | 97,050,000 | 97,200,000 | 1295 | 705 | 0.90810556 | EMP1 |
| 5 | 97,125,000 | 97,275,000 | 1296 | 649 | -0.39591241 | GSG1,KIAA1467 |
| 5 | 97,200,000 | 97,350,000 | 1297 | 853 | 0.090120568 | GSG1,HEBP1,KIAA1467 |
| 5 | 97,275,000 | 97,425,000 | 1298 | 1049 | 1.112376928 | GPRC5D,HEBP1,KIAA1467 |
| 5 | 97,350,000 | 97,500,000 | 1299 | 1240 | 0.409357208 | DDX47,GPRC5A,GPRC5D,HEBP1 |
| 5 | 97,425,000 | 97,575,000 | 1300 | 965 | -0.100254611 | APOLD1,DDX47,GPRC5A |
| 5 | 97,500,000 | 97,650,000 | 1301 | 507 | 0.87795115 | APOLD1,CDKN1B,CREBL2,DDX47,GPR19 |
| 5 | 97,575,000 | 97,725,000 | 1302 | 300 | 0.746455198 | CDKN1B,CREBL2,GPR19 |
| 5 | 97,650,000 | 97,800,000 | 1303 | 375 | 0.73668095 | CREBL2,DUSP16 |
| 5 | 97,725,000 | 97,875,000 | 1304 | 425 | 0.644856452 | DUSP16,LOH12CR1 |
| 5 | 97,800,000 | 97,950,000 | 1305 | 462 | 1.053931424 | DUSP16,LOH12CR1,MANSC1,ENSBTAG00000039496 |
| 5 | 97,875,000 | 98,025,000 | 1306 | 572 | 1.318491593 | LOH12CR1,LRP6,MANSC1,ENSBTAG00000039496 |
| 5 | 97,950,000 | 98,100,000 | 1307 | 491 | 1.144048956 | LRP6 |
| 5 | 98,025,000 | 98,175,000 | 1308 | 377 | 0.801503901 | LRP6 |
| 5 | 98,100,000 | 98,250,000 | 1309 | 561 | 0.487303225 | BCL2L14,LRP6 |
| 5 | 98,175,000 | 98,325,000 | 1310 | 526 | 0.471074349 | BCL2L14 |
| 5 | 98,250,000 | 98,400,000 | 1311 | 662 | 0.9188 | |
| 5 | 98,325,000 | 98,475,000 | 1312 | 834 | 1.064744477 | ETV6 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 98,400,000 | 98,550,000 | 1313 | 749 | 0.733596857 | ETV6 |
| 5 | 98,475,000 | 98,625,000 | 1314 | 776 | 0.379411729 | |
| 5 | 98,550,000 | 98,700,000 | 1315 | 812 | 0.134884773 | |
| 5 | 98,625,000 | 98,775,000 | 1316 | 894 | -0.669035835 | |
| 5 | 98,700,000 | 98,850,000 | 1317 | 1282 | -0.940641951 | |
| 5 | 98,775,000 | 98,925,000 | 1318 | 1460 | -0.43552806 | |
| 5 | 98,850,000 | 99,000,000 | 1319 | 1282 | 0.34273189 | ENSBTAG00000030476 |
| 5 | 98,925,000 | 99,075,000 | 1320 | 1643 | 0.264555128 | TAS2R42,TAS2R46,ENSBTAG00000001336,ENSBTAGO0000030476 |
| 5 | 99,000,000 | 99,150,000 | 1321 | 2086 | 0.146832186 | T2R12,T2R65A,TAS2R42,TAS2R46,ENSBTAG00000001336 |
| 5 | 99,075,000 | 99,225,000 | 1322 | 2057 | -0.586917006 | BOTA-T2R10B,T2R12,T2R65A |
| 5 | 99,150,000 | 99,300,000 | 1323 | 1779 | -0.872929092 | BOTA-T2R10B,T2R10C,TAS2R10 |
| 5 | 99,225,000 | 99,375,000 | 1324 | 1710 | -0.772704382 | CSDA,T2R10C,TAS2R10 |
| 5 | 99,300,000 | 99,450,000 | 1325 | 2019 | -0.260458875 | CSDA,MAGOHB,STYK1 |
| 5 | 99,375,000 | 99,525,000 | 1326 | 2334 | 0.423375318 | KLRA1,MAGOHB,STYK1 |
| 5 | 99,450,000 | 99,600,000 | 1327 | 2305 | 0.518918077 | KLRA1,MAGOHB,ENSBTAG00000046268 |
| 5 | 99,525,000 | 99,675,000 | 1328 | 2135 | 0.61854046 | ENSBTAG00000014332,ENSBTAG00000046268 |
| 5 | 99,600,000 | 99,750,000 | 1329 | 1766 | 0.570835293 | ENSBTAG00000014332,ENSBTAG00000046268 |
| 5 | 99,675,000 | 99,825,000 | 1330 | 1478 | 0.552106404 | KLRC1,NKG2A,ENSBTAG00000014332,ENSBTAG00000033671 |
| 5 | 99,750,000 | 99,900,000 | 1331 | 1762 | 0.16664086 | KLRC1,KLRJ1,NKG2A,ENSBTAG00000033671 |
| 5 | 99,825,000 | 99,975,000 | 1332 | 2058 | 0.432973645 | KLRC1,KLRJ1,NKG2A |
| 5 | 99,900,000 | 100,050,000 | 1333 | 1963 | 0.707256343 | NKG2A,NKG2C,ENSBTAG00000004917 |
| 5 | 99,975,000 | 100,125,000 | 1334 | 2197 | 0.222869117 | KLRD1,NKG2A,NKG2C,ENSBTAG00000000966,ENSBTAG00000004917 |
| 5 | 100,050,000 | 100,200,000 | 1335 | 2195 | 0.419474842 | KLRD1,ENSBTAG00000000966,ENSBTAG00000030426 |
| 5 | 100,125,000 | 100,275,000 | 1336 | 1676 | 0.839955158 | GABARAPL1,OLR1,TMEM52B,ENSBTAG00000030426 |
| 5 | 100,200,000 | 100,350,000 | 1337 | 1420 | 0.559289537 | CLEC1A,CLEC1B,CLEC7A,CLEC9A,GABARAPL1,OLR1,TMEM52B |
| 5 | 100,275,000 | 100,425,000 | 1338 | 1212 | 0.571241737 | CLEC12A,CLEC12B,CLEC1A,CLEC1B,CLEC7A,CLEC9A |
| 5 | 100,350,000 | 100,500,000 | 1339 | 1131 | 0.50885053 | CLEC12A,CLEC12B,CLEC1B,CLEC2A,KLRF2 |
| 5 | 100,425,000 | 100,575,000 | 1340 | 1003 | -0.158677731 | CLEC2A,KLRF2,ENSBTAG00000006851 |
| 5 | 100,500,000 | 100,650,000 | 1341 | 918 | -0.892693859 | KLRF2,ENSBTAG00000006851,ENSBTAG00000012026 |
| 5 | 100,575,000 | 100,725,000 | 1342 | 815 | -0.868722067 | KLRF1,ENSBTAG00000006851,ENSBTAG00000012026 |
| 5 | 100,650,000 | 100,800,000 | 1343 | 976 | -0.802407223 | CD69,CLECL1,KLRF1 |
| 5 | 100,725,000 | 100,875,000 | 1344 | 1215 | -0.969962142 | CD69,CLECL1 |
| 5 | 100,800,000 | 100,950,000 | 1345 | 962 | -0.756947431 | KLRB1,ENSBTAG00000046324 |
| 5 | 100,875,000 | 101,025,000 | 1346 | 665 | -0.58092721 | KLRB1,ENSBTAG00000046324 |
| 5 | 100,950,000 | 101,100,000 | 1347 | 716 | -1.38675719 | KLRB1 |
| 5 | 101,025,000 | 101,175,000 | 1348 | 813 | -0.988919958 | OVOS2 |
| 5 | 101,100,000 | 101,250,000 | 1349 | 975 | 0.698788627 | OVOS2,ENSBTAG00000038461 |
| 5 | 101,175,000 | 101,325,000 | 1350 | 1307 | 0.963358535 | A2M,OVOS2,ENSBTAG00000038461 |
| 5 | 101,250,000 | 101,400,000 | 1351 | 1535 | 0.779517283 | A2M,ENSBTAG00000038461 |
| 5 | 101,325,000 | 101,475,000 | 1352 | 1531 | -0.337024972 | A2M,KLRG1,M6PR,PHC1 |
| 5 | 101,400,000 | 101,550,000 | 1353 | 1392 | -0.761652135 | A2ML1,KLRG1,M6PR,PHC1 |
| 5 | 101,475,000 | 101,625,000 | 1354 | 1186 | -0.43623744 | A2ML1,RIMKLB |
| 5 | 101,550,000 | 101,700,000 | 1355 | 1037 | -0.879123071 | AICDA,MFAP5,RIMKLB |
| 5 | 101,625,000 | 101,775,000 | 1356 | 877 | -1.522432649 | AICDA,APOBEC1,MFAP5,ENSBTAG00000023192 |
| 5 | 101,700,000 | 101,850,000 | 1357 | 594 | -0.671010279 | APOBEC1,DPPA3,ENSBTAG00000023192 |
| 5 | 101,775,000 | 101,925,000 | 1358 | 422 | 0.441411077 | DPPA3,NANOG,SLC2A3 |
| 5 | 101,850,000 | 102,000,000 | 1359 | 313 | 0.629996813 | NANOG,SLC2A3 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 101,925,000 | 102,075,000 | 1360 | 408 | 0.246837038 | C3AR1,FOXJ2,NECAP1 |
| 5 | 102,000,000 | 102,150,000 | 1361 | 647 | 0.58563444 | C3AR1,CLEC4A,CLEC4D,CLEC6A,FOXJ2,NECAP1 |
| 5 | 102,075,000 | 102,225,000 | 1362 | 830 | 0.125506463 | CLEC4A,CLEC4D,CLEC4E,CLEC6A |
| 5 | 102,150,000 | 102,300,000 | 1363 | 658 | -1.414285022 | CD163,CLEC4D,CLEC4E |
| 5 | 102,225,000 | 102,375,000 | 1364 | 839 | -0.749754615 | CD163,ENSBTAG00000039847 |
| 5 | 102,300,000 | 102,450,000 | 1365 | 1339 | -0.029773917 | ENSBTAG00000039817,ENSBTAG00000039847 |
| 5 | 102,375,000 | 102,525,000 | 1366 | 1582 | 0.220231915 | ENSBTAG00000039380,ENSBTAG00000039817 |
| 5 | 102,450,000 | 102,600,000 | 1367 | 2205 | 0.349414086 | ENSBTAG00000039380 |
| 5 | 102,525,000 | 102,675,000 | 1368 | 2289 | 0.299989592 | |
| 5 | 102,600,000 | 102,750,000 | 1369 | 1886 | 0.481823433 | ENSBTAG00000039041 |
| 5 | 102,675,000 | 102,825,000 | 1370 | 2144 | 1.139290903 | ENSBTAG00000039041 |
| 5 | 102,750,000 | 102,900,000 | 1371 | 2696 | 1.176519818 | ENSBTAG00000048175 |
| 5 | 102,825,000 | 102,975,000 | 1372 | 2320 | 0.356010601 | ENSBTAG00000024318,ENSBTAG00000030371,ENSBTAG00000048175 |
| 5 | 102,900,000 | 103,050,000 | 1373 | 1408 | -0.432761998 | ENSBTAG00000024318,ENSBTAG00000030371,ENSBTAG00000045768,ENSBTAG00000048175 |
| 5 | 102,975,000 | 103,125,000 | 1374 | 1252 | -0.783463202 | ENSBTAG00000030371,ENSBTAG00000034678,ENSBTAG00000045768 |
| 5 | 103,050,000 | 103,200,000 | 1375 | 1662 | 0.247332235 | ENSBTAG00000034678,ENSBTAG00000039470,ENSBTAG00000045768 |
| 5 | 103,125,000 | 103,275,000 | 1376 | 1762 | 0.305224115 | ENSBTAG00000039470 |
| 5 | 103,200,000 | 103,350,000 | 1377 | 1900 | -0.231095971 | ENSBTAG00000039256,ENSBTAG00000039470 |
| 5 | 103,275,000 | 103,425,000 | 1378 | 2211 | 0.102189081 | CD163L1,ENSBTAG00000039256 |
| 5 | 103,350,000 | 103,500,000 | 1379 | 1881 | 0.343709676 | CD163L1,ENSBTAG00000024771 |
| 5 | 103,425,000 | 103,575,000 | 1380 | 1473 | 0.307373169 | CD163L1,PEX5,ENSBTAG00000024771 |
| 5 | 103,500,000 | 103,650,000 | 1381 | 1303 | 0.567399043 | C1RL,CLSTN3,PEX5,RBP5 |
| 5 | 103,575,000 | 103,725,000 | 1382 | 1353 | 0.542893052 | C1R,C1RL,CLSTN3,RBP5 |
| 5 | 103,650,000 | 103,800,000 | 1383 | 1204 | 0.33277717 | C1R,C1S |
| 5 | 103,725,000 | 103,875,000 | 1384 | 785 | -0.169925089 | C1R,C1S,LPCAT3,PHB2,PTPN6,ENSBTAG00000013126 |
| 5 | 103,800,000 | 103,950,000 | 1385 | 487 | -0.398228148 | ATN1,C5H12orf57,ENO2,LPCAT3,LRRC23,PHB2,PTPN6,SPSB2,TPI1,USP5,ENSBTAG00000013126 |
| 5 | 103,875,000 | 104,025,000 | 1386 | 426 | -0.18759975 | ATN1,C5H12orf57,CD4,CDCA3,ENO2,GNB3,GPR162,LEPREL2,LRRC23,SPSB2,TPI1,USP5 |
| 5 | 103,950,000 | 104,100,000 | 1387 | 533 | -0.042348592 | CD4,CDCA3,COPS7A,GNB3,GPR162,LAG3,LEPREL2,MLF2,PTMS,USP5 |
| 5 | 104,025,000 | 104,175,000 | 1388 | 525 | 0.440033564 | ACRBP,C5H12ORF53,COPS7A,ING4,LAG3,LPAR5,MLF2,PTMS,ZNF384 |
| 5 | 104,100,000 | 104,250,000 | 1389 | 533 | 0.634656298 | ACRBP,C5H12ORF53,CHD4,GAPDH,IFFO1,ING4,LPAR5,NCAPD2,NOP2,ZNF384 |
| 5 | 104,175,000 | 104,325,000 | 1390 | 548 | 0.16465619 | CD27,CHD4,GAPDH,IFFO1,MRPL51,NCAPD2,NOP2,TAPBPL,VAMP1 |
| 5 | 104,250,000 | 104,400,000 | 1391 | 382 | 0.074256356 | CD27,LTBR,MRPL51,NCAPD2,SCNN1A,TAPBPL,VAMP1 |
| 5 | 104,325,000 | 104,475,000 | 1392 | 412 | 0.467817941 | LTBR,PLEKHG6,SCNN1A,TNFRSF1A |
| 5 | 104,400,000 | 104,550,000 | 1393 | 766 | 0.29516399 | CD9,PLEKHG6,TNFRSF1A |
| 5 | 104,475,000 | 104,625,000 | 1394 | 958 | 0.42412853 | CD9,VWF |
| 5 | 104,550,000 | 104,700,000 | 1395 | 1052 | -0.454059609 | VWF |
| 5 | 104,625,000 | 104,775,000 | 1396 | 1017 | 0.014332277 | ANO2,VWF,ENSBTAG00000011758 |
| 5 | 104,700,000 | 104,850,000 | 1397 | 797 | 1.036487092 | ANO2,VWF,ENSBTAG00000011758 |
| 5 | 104,775,000 | 104,925,000 | 1398 | 780 | 0.956307135 | ANO2 |
| 5 | 104,850,000 | 105,000,000 | 1399 | 852 | 0.807733367 | ANO2 |
| 5 | 104,925,000 | 105,075,000 | 1400 | 1069 | 0.854802206 | ANO2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 105,000,000 | 105,150,000 | 1401 | 1142 | 0.813624136 | ANO2,NTF3 |
| 5 | 105,075,000 | 105,225,000 | 1402 | 1060 | 0.839726703 | ANO2,NTF3 |
| 5 | 105,150,000 | 105,300,000 | 1403 | 962 | 1.010494424 | NTF3 |
| 5 | 105,225,000 | 105,375,000 | 1404 | 1066 | 0.615549137 | |
| 5 | 105,300,000 | 105,450,000 | 1405 | 1089 | 0.588560274 | |
| 5 | 105,375,000 | 105,525,000 | 1406 | 1255 | 0.111485003 | |
| 5 | 105,450,000 | 105,600,000 | 1407 | 1689 | -0.474029956 | KCNA5,ENSBTAG00000026522 |
| 5 | 105,525,000 | 105,675,000 | 1408 | 1732 | 0.216537636 | KCNA1,KCNA5,ENSBTAG00000026522 |
| 5 | 105,600,000 | 105,750,000 | 1409 | 1778 | 0.912148421 | KCNA1 |
| 5 | 105,675,000 | 105,825,000 | 1410 | 1530 | 0.686543887 | GALNT8,KCNA6 |
| 5 | 105,750,000 | 105,900,000 | 1411 | 1004 | 0.866160615 | AKAP3,GALNT8,KCNA6,NDUFA9 |
| 5 | 105,825,000 | 105,975,000 | 1412 | 793 | 1.176337829 | AKAP3,DYRK4,GALNT8,NDUFA9 |
| 5 | 105,900,000 | 106,050,000 | 1413 | 548 | 1.254220026 | AKAP3,C5H12ORF4,DYRK4,RAD51AP1 |
| 5 | 105,975,000 | 106,125,000 | 1414 | 141 | 1.157981531 | C5H12ORF4,DYRK4,RAD51AP1 |
| 5 | 106,050,000 | 106,200,000 | 1415 | 756 | 0.766538709 | C5H12ORF4,FGF6,RAD51AP1 |
| 5 | 106,125,000 | 106,275,000 | 1416 | 1235 | 0.506821242 | C5H12ORF4,CCND2,FGF23,FGF6,TIGAR |
| 5 | 106,200,000 | 106,350,000 | 1417 | 770 | 0.233246754 | CCND2,FGF23,TIGAR |
| 5 | 106,275,000 | 106,425,000 | 1418 | 694 | 1.137418788 | CCND2 |
| 5 | 106,350,000 | 106,500,000 | 1419 | 983 | 0.843265555 | |
| 5 | 106,425,000 | 106,575,000 | 1420 | 1316 | -0.636268838 | |
| 5 | 106,500,000 | 106,650,000 | 1421 | 1395 | -0.395924252 | PARP11 |
| 5 | 106,575,000 | 106,725,000 | 1422 | 1809 | 0.158519676 | CRACR2A,PARP11 |
| 5 | 106,650,000 | 106,800,000 | 1423 | 1591 | -0.150747892 | CRACR2A |
| 5 | 106,725,000 | 106,875,000 | 1424 | 1012 | 0.663064219 | CRACR2A,PRMT8 |
| 5 | 106,800,000 | 106,950,000 | 1425 | 1117 | 0.616738022 | PRMT8 |
| 5 | 106,875,000 | 107,025,000 | 1426 | 1041 | 0.620206757 | TSPAN11 |
| 5 | 106,950,000 | 107,100,000 | 1427 | 1004 | 0.850149441 | TSPAN11,TSPAN9 |
| 5 | 107,025,000 | 107,175,000 | 1428 | 1221 | 0.158929787 | TSPAN11,TSPAN9 |
| 5 | 107,100,000 | 107,250,000 | 1429 | 1451 | 0.513552853 | |
| 5 | 107,175,000 | 107,325,000 | 1430 | 1124 | 0.542367136 | TEAD4 |
| 5 | 107,250,000 | 107,400,000 | 1431 | 825 | 0.064031061 | FOXM1,RHNO1,TEAD4,TULP3,ENSBTAG00000030325 |
| 5 | 107,325,000 | 107,475,000 | 1432 | 1085 | 0.828524218 | DDX11,FKBP4,FOXM1,ITFG2,NRIP2,RHNO1,TEAD4,TU LP3,ENSBTAG00000030325 |
| 5 | 107,400,000 | 107,550,000 | 1433 | 922 | 1.027712575 | DDX11,FKBP4,IQSEC3,ITFG2,NRIP2,WASH1,ENSBTAG0 0000030325 |
| 5 | 107,475,000 | 107,625,000 | 1434 | 793 | 0.887452836 | DDX11,IQSEC3,WASH1 |
| 5 | 107,550,000 | 107,700,000 | 1435 | 1086 | 0.221230968 | IQSEC3,SLC6A12,SLC6A13 |
| 5 | 107,625,000 | 107,775,000 | 1436 | 1086 | -0.043953864 | IQSEC3,KDM5A,SLC6A12,SLC6A13,ENSBTAG0000002 3274 |
| 5 | 107,700,000 | 107,850,000 | 1437 | 1052 | 0.537434893 | CCDC77,KDM5A,SLC6A13,ENSBTAG00000023274 |
| 5 | 107,775,000 | 107,925,000 | 1438 | 1065 | 0.426759381 | B4GALNT3,CCDC77,KDM5A |
| 5 | 107,850,000 | 108,000,000 | 1439 | 1223 | 0.968503495 | B4GALNT3,NINJ2 |
| 5 | 107,925,000 | 108,075,000 | 1440 | 919 | 1.009072095 | B4GALNT3,NINJ2 |
| 5 | 108,000,000 | 108,150,000 | 1441 | 371 | -0.161770297 | NINJ2,WNK1,ENSBTAG00000024477 |
| 5 | 108,075,000 | 108,225,000 | 1442 | 265 | 0.179773654 | RAD52,WNK1,ENSBTAG00000024477 |
| 5 | 108,150,000 | 108,300,000 | 1443 | 362 | 0.403857919 | RAD52,WNK1 |
| 5 | 108,225,000 | 108,375,000 | 1444 | 526 | -0.844823527 | ERC1,RAD52 |
| 5 | 108,300,000 | 108,450,000 | 1445 | 532 | -0.902464242 | ERC1 |
| 5 | 108,375,000 | 108,525,000 | 1446 | 526 | -0.180373899 | ERC1 |
| 5 | 108,450,000 | 108,600,000 | 1447 | 595 | -0.164212341 | ERC1 |
| 5 | 108,525,000 | 108,675,000 | 1448 | 565 | 0.71155725 | ERC1,FBXL14,WNT5B |
| 5 | 108,600,000 | 108,750,000 | 1449 | 511 | 0.406582635 | ADIPOR2,CACNA2D4,FBXL14,WNT5B |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 108,675,000 | 108,825,000 | 1450 | 472 | 0.271338217 | ADIPOR2,CACNA2D4,DCP1B,LRTM2 |
| 5 | 108,750,000 | 108,900,000 | 1451 | 292 | 1.261858945 | CACNA2D4,DCP1B,LRTM2 |
| 5 | 108,825,000 | 108,975,000 | 1452 | 281 | 0.991284575 | DCP1B |
| 5 | 108,900,000 | 109,050,000 | 1453 | 364 | -0.47669882 | |
| 5 | 108,975,000 | 109,125,000 | 1454 | 514 | -5.062482529 | |
| 5 | 109,050,000 | 109,200,000 | 1455 | 780 | -3.78628119 | CACNA1C |
| 5 | 109,125,000 | 109,275,000 | 1456 | 852 | -1.432832741 | CACNA1C |
| 5 | 109,200,000 | 109,350,000 | 1457 | 799 | 0.081562745 | CACNA1C |
| 5 | 109,275,000 | 109,425,000 | 1458 | 692 | -0.003140914 | CACNA1C,CECR5,IL17RA |
| 5 | 109,350,000 | 109,500,000 | 1459 | 563 | -0.426014976 | CACNA1C,CECR1,CECR5,IL17RA |
| 5 | 109,425,000 | 109,575,000 | 1460 | 607 | 1.361849123 | ATP6V1E1,CECR1,CECR2,CECR5 |
| 5 | 109,500,000 | 109,650,000 | 1461 | 685 | 1.174265145 | ATP6V1E1,BCL2L13,BID2,CECR2 |
| 5 | 109,575,000 | 109,725,000 | 1462 | 749 | 0.239728194 | ATP6V1E1,BCL2L13,BID2,MICAL3 |
| 5 | 109,650,000 | 109,800,000 | 1463 | 800 | -0.729843797 | BID2,MICAL3 |
| 5 | 109,725,000 | 109,875,000 | 1464 | 727 | 0.450637421 | MICAL3,PEX26 |
| 5 | 109,800,000 | 109,950,000 | 1465 | 995 | 1.255915699 | CDC42EP1,LGALS3,PEX26,TUBA8 |
| 5 | 109,875,000 | 110,025,000 | 1466 | 1069 | 1.060241105 | CDC42EP1,GGA1,LGALS1,LGALS3,NOL12,PDXP,SH3BP1,TUBA8 |
| 5 | 109,950,000 | 110,100,000 | 1467 | 822 | 0.633292675 | GGA1,LGALS1,NOL12,PDXP,SH3BP1,TRIOBP |
| 5 | 110,025,000 | 110,175,000 | 1468 | 918 | 0.993239943 | ANKRD54,EIF3L,GALR3,GCAT,H1F0,NOL12,TRIOBP |
| 5 | 110,100,000 | 110,250,000 | 1469 | 1130 | 1.316526883 | ANKRD54,C22orf23,EIF3L,GALR3,GCAT,H1F0,MICALL1,POLR2F |
| 5 | 110,175,000 | 110,325,000 | 1470 | 934 | 1.105784881 | C22orf23,EIF3L,MICALL1,POLR2F,SOX10 |
| 5 | 110,250,000 | 110,400,000 | 1471 | 890 | 0.748445218 | BAIAP2L2,POLR2F,PRKCABP,SLC16A8,SOX10 |
| 5 | 110,325,000 | 110,475,000 | 1472 | 1101 | 0.814523396 | BAIAP2L2,PLA2G6,PRKCABP,SLC16A8 |
| 5 | 110,400,000 | 110,550,000 | 1473 | 894 | 0.742647515 | BAIAP2L2,MAFF,PLA2G6,TMEM184B |
| 5 | 110,475,000 | 110,625,000 | 1474 | 833 | 0.239529409 | CSNK1E,MAFF,TMEM184B |
| 5 | 110,550,000 | 110,700,000 | 1475 | 976 | -0.463312144 | CSNK1E,DDX17,KDEL3 |
| 5 | 110,625,000 | 110,775,000 | 1476 | 1028 | -1.133965309 | DDX17,DMC1,FAM227A,KDEL3 |
| 5 | 110,700,000 | 110,850,000 | 1477 | 976 | -1.349809328 | CBY1,DMC1,FAM227A,GTPBP1,JOSD1,TOMM22 |
| 5 | 110,775,000 | 110,925,000 | 1478 | 884 | -0.304606257 | CBY1,DNAL4,FAM227A,GTPBP1,JOSD1,TOMM22,UNC84B |
| 5 | 110,850,000 | 111,000,000 | 1479 | 844 | 0.815227593 | CBX6,DNAL4,GTPBP1,NPTXR,UNC84B |
| 5 | 110,925,000 | 111,075,000 | 1480 | 1042 | 0.653434477 | APOBEC3A,APOBEC3Z3,CBX6,NPTXR |
| 5 | 111,000,000 | 111,150,000 | 1481 | 1024 | -0.014874721 | APOBEC3A,APOBEC3Z3,CBX7 |
| 5 | 111,075,000 | 111,225,000 | 1482 | 690 | -1.366698701 | APOBEC3Z3,CBX7,PDGFB |
| 5 | 111,150,000 | 111,300,000 | 1483 | 695 | 0.044207099 | PDGFB,RPL3,SYNGR1 |
| 5 | 111,225,000 | 111,375,000 | 1484 | 937 | 0.850254618 | MAP3K7IP1,RPL3,SYNGR1 |
| 5 | 111,300,000 | 111,450,000 | 1485 | 946 | 1.083915237 | MAP3K7IP1,MGAT3,MIEF1,SYNGR1 |
| 5 | 111,375,000 | 111,525,000 | 1486 | 806 | 0.855652148 | ATF4,CACNA1I,MGAT3,MIEF1,RPS19BP1 |
| 5 | 111,450,000 | 111,600,000 | 1487 | 1095 | -0.142225762 | ATF4,CACNA1I,MIEF1,RPS19BP1 |
| 5 | 111,525,000 | 111,675,000 | 1488 | 1371 | 0.134201133 | CACNA1I,ENTHD1 |
| 5 | 111,600,000 | 111,750,000 | 1489 | 1152 | 0.382061119 | CACNA1I,ENTHD1 |
| 5 | 111,675,000 | 111,825,000 | 1490 | 879 | 0.411319667 | ENTHD1,GRAP2 |
| 5 | 111,750,000 | 111,900,000 | 1491 | 830 | 0.941072173 | ENTHD1,FAM83F,GRAP2 |
| 5 | 111,825,000 | 111,975,000 | 1492 | 812 | 0.981741168 | FAM83F,GRAP2 |
| 5 | 111,900,000 | 112,050,000 | 1493 | 696 | 1.039035404 | TNRC6B |
| 5 | 111,975,000 | 112,125,000 | 1494 | 629 | 0.585841251 | TNRC6B |
| 5 | 112,050,000 | 112,200,000 | 1495 | 626 | 0.401575308 | ADSL,TNRC6B |
| 5 | 112,125,000 | 112,275,000 | 1496 | 574 | 0.525182392 | ADSL,MKL1,SGSM3,TNRC6B |
| 5 | 112,200,000 | 112,350,000 | 1497 | 668 | 0.254498012 | ADSL,MKL1,SGSM3 |
| 5 | 112,275,000 | 112,425,000 | 1498 | 823 | 0.249488587 | MKL1 |
| 5 | 112,350,000 | 112,500,000 | 1499 | 991 | -0.100751348 | MKL1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 5 | 112,425,000 | 112,575,000 | 1500 | 1144 | -0.269680377 | MCHR1,SLC25A17 |
| 5 | 112,500,000 | 112,650,000 | 1501 | 1071 | 0.0184916 | DNAJB7,MCHR1,SLC25A17,ST13,XPNPEP3 |
| 5 | 112,575,000 | 112,725,000 | 1502 | 1039 | 0.068994915 | DNAJB7,RBX1,SLC25A17,ST13,XPNPEP3 |
| 5 | 112,650,000 | 112,800,000 | 1503 | 1016 | 0.456720412 | RBX1,XPNPEP3 |
| 5 | 112,725,000 | 112,875,000 | 1504 | 775 | 0.345402897 | EP300 |
| 5 | 112,800,000 | 112,950,000 | 1505 | 843 | 0.399786581 | CHADL,EP300,L3MBTL2,RANGAP1 |
| 5 | 112,875,000 | 113,025,000 | 1506 | 958 | 1.127563538 | CHADL,L3MBTL2,RANGAP1,ZC3H7B |
| 5 | 112,950,000 | 113,100,000 | 1507 | 664 | 0.914065718 | ACO2,PHF5A,TEF,TOB2,ZC3H7B |
| 5 | 113,025,000 | 113,175,000 | 1508 | 757 | 0.37013924 | ACO2,CSDC2,PHF5A,PMM1,POLR3H,TEF,TOB2 |
| 5 | 113,100,000 | 113,250,000 | 1509 | 919 | 0.57873004 | ACO2,CSDC2,DESI1,PMM1,POLR3H,XRCC6 |
| 5 | 113,175,000 | 113,325,000 | 1510 | 788 | -1.337926832 | C22orf46,DESI1,MEI1,NHP2L1,PMM1,XRCC6,ENSBTAG00000046927 |
| 5 | 113,250,000 | 113,400,000 | 1511 | 457 | -2.917462901 | C22orf46,CCDC134,MEI1,NHP2L1,SREBF2,XRCC6,ENSBTAG00000046927 |
| 5 | 113,325,000 | 113,475,000 | 1512 | 325 | -0.238160614 | CCDC134,CENPM,MEI1,SREBF2,TNFRSF13C |
| 5 | 113,400,000 | 113,550,000 | 1513 | 511 | 0.898774085 | CENPM,SEPT3,SREBF2,TNFRSF13C,WBP2NL |
| 5 | 113,475,000 | 113,625,000 | 1514 | 530 | 0.854136685 | FAM109B,MGC127055,MGC152344,NAGA,NDUFA6,S |
| 5 | 113,550,000 | 113,700,000 | 1515 | 682 | 1.05409689 | EPT3,SMDT1,WBP2NL,ENSBTAG00000026502,ENSBTAG00000037632 |
| 5 | 113,625,000 | 113,775,000 | 1516 | 647 | 1.047318762 | FAM109B,MGC127055,MGC152344,NAGA,NDUFA6,S |
| 5 | 113,700,000 | 113,850,000 | 1517 | 450 | 0.006299569 | MDT1,TCF20,ENSBTAG00000026502,ENSBTAG00000037632 |
| 5 | 113,775,000 | 113,925,000 | 1518 | 649 | -0.375018274 | MGC127055,TCF20 |
| 5 | 113,850,000 | 114,000,000 | 1519 | 845 | -0.294077663 | NFAM1,ENSBTAG00000046721 |
| 5 | 113,925,000 | 114,075,000 | 1520 | 719 | -1.30231246 | NFAM1,ENSBTAG00000046721 |
| 5 | 114,000,000 | 114,150,000 | 1521 | 372 | -1.868688678 | NFAM1,POLDIP3,RRP7A,SERHL2 |
| 5 | 114,075,000 | 114,225,000 | 1522 | 72 | 0.072420209 | A4GALT,CYB5R3,POLDIP3,RRP7A,SERHL2 |
| 5 | 114,150,000 | 114,300,000 | 1523 | 376 | 1.030760536 | A4GALT,CYB5R3,POLDIP3,ENSBTAG00000030199 |
| 5 | 114,225,000 | 114,375,000 | 1524 | 1023 | 1.026511601 | ENSBTAG00000030199 |
| 5 | 114,300,000 | 114,450,000 | 1525 | 1252 | 0.977064317 | ARFGAP3 |
| 5 | 114,375,000 | 114,525,000 | 1526 | 1486 | 1.082586628 | ARFGAP3,PACSIN2 |
| 5 | 114,450,000 | 114,600,000 | 1527 | 1243 | 0.926330688 | ARFGAP3,PACSIN2 |
| 5 | 114,525,000 | 114,675,000 | 1528 | 723 | 0.225476575 | PACSIN2,TLL1 |
| 5 | 114,600,000 | 114,750,000 | 1529 | 707 | 0.717887876 | MCAT,PACSIN2,TSPO,TLL1 |
| 5 | 114,675,000 | 114,825,000 | 1530 | 863 | 0.130250558 | MCAT,SCUBE1,TSPO,TLL1,TLL12 |
| 5 | 114,750,000 | 114,900,000 | 1531 | 1061 | -1.228657038 | SCUBE1,TSPO,TLL12 |
| 5 | 114,825,000 | 114,975,000 | 1532 | 1250 | -1.286916276 | SCUBE1 |
| 5 | 114,900,000 | 115,050,000 | 1533 | 1083 | -0.742429867 | SCUBE1 |
| 5 | 114,975,000 | 115,125,000 | 1534 | 746 | -0.408081499 | SAMM50,ENSBTAG0000003367 |
| 5 | 115,050,000 | 115,200,000 | 1535 | 986 | 0.174608072 | SAMM50,ENSBTAG0000003367,ENSBTAG00000045746 |
| 5 | 115,125,000 | 115,275,000 | 1536 | 1315 | -0.205039406 | PNPLA5,SULT4A1,ENSBTAG0000003367,ENSBTAG00000045746 |
| 5 | 115,200,000 | 115,350,000 | 1537 | 1450 | -1.388661132 | EFCAB6 |
| 5 | 115,275,000 | 115,425,000 | 1538 | 1348 | -0.929272677 | EFCAB6 |
| 5 | 115,350,000 | 115,500,000 | 1539 | 1333 | -0.494656027 | EFCAB6 |
| 5 | 115,425,000 | 115,575,000 | 1540 | 1637 | -1.034594297 | EFCAB6 |
| 5 | 115,500,000 | 115,650,000 | 1541 | 1553 | -0.23777801 | PARVB |
| 5 | 115,575,000 | 115,725,000 | 1542 | 816 | 0.559274925 | MGC148449,PARVB |
| 5 | 115,650,000 | 115,800,000 | 1543 | 752 | 0.67001868 | KIAA1644,MGC148449 |
| 5 | 115,725,000 | 115,875,000 | 1544 | 781 | 0.654062274 | KIAA1644 |
| 5 | | | | | | LDOC1L |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 115,800,000 | 115,950,000 | 1545 | 734 | 0.378855954 | LDOC1L |
| 5 | 115,875,000 | 116,025,000 | 1546 | 982 | 0.972403965 | PRR5 |
| 5 | 115,950,000 | 116,100,000 | 1547 | 939 | 0.907157783 | PRR5,ENSBTAG00000008858 |
| 5 | 116,025,000 | 116,175,000 | 1548 | 1294 | -1.012441098 | PHF21B,PRR5,ENSBTAG00000008858 |
| 5 | 116,100,000 | 116,250,000 | 1549 | 1656 | -0.210260893 | PHF21B,ENSBTAG00000008858 |
| 5 | 116,175,000 | 116,325,000 | 1550 | 1663 | 0.943412384 | NUP50 |
| 5 | 116,250,000 | 116,400,000 | 1551 | 1357 | 0.735560716 | KIAA0930,NUP50 |
| 5 | 116,325,000 | 116,475,000 | 1552 | 1091 | 0.481575957 | FAM118A,KIAA0930,NUP50,SMC1B,UPK3A |
| 5 | 116,400,000 | 116,550,000 | 1553 | 732 | 0.428322738 | FAM118A,RIBC2,SMC1B,UPK3A |
| 5 | 116,475,000 | 116,625,000 | 1554 | 826 | -0.351380031 | FBLN1,RIBC2,SMC1B |
| 5 | 116,550,000 | 116,700,000 | 1555 | 1276 | -0.157273128 | FBLN1,RIBC2 |
| 5 | 116,625,000 | 116,775,000 | 1556 | 1346 | 0.43779628 | ATXN10,FBLN1 |
| 5 | 116,700,000 | 116,850,000 | 1557 | 1094 | -0.158400088 | ATXN10 |
| 5 | 116,775,000 | 116,925,000 | 1558 | 875 | -1.328407384 | ATXN10 |
| 5 | 116,850,000 | 117,000,000 | 1559 | 733 | -0.841085855 | ATXN10,WNT7B |
| 5 | 116,925,000 | 117,075,000 | 1560 | 487 | 0.107845821 | WNT7B |
| 5 | 117,000,000 | 117,150,000 | 1561 | 527 | -0.384723993 | |
| 5 | 117,075,000 | 117,225,000 | 1562 | 800 | -0.350335805 | PPARA |
| 5 | 117,150,000 | 117,300,000 | 1563 | 1265 | -0.579785109 | CDPF1,PPARA |
| 5 | 117,225,000 | 117,375,000 | 1564 | 2381 | -0.141701806 | CDPF1,PPARA |
| 5 | 117,300,000 | 117,450,000 | 1565 | 3309 | -5.34E-06 | |
| 5 | 117,375,000 | 117,525,000 | 1566 | 2992 | -0.003914991 | |
| 5 | 117,450,000 | 117,600,000 | 1567 | 2630 | -1.016715141 | |
| 5 | 117,525,000 | 117,675,000 | 1568 | 2236 | -3.144041372 | TTC38 |
| 5 | 117,600,000 | 117,750,000 | 1569 | 1233 | -0.779766529 | GTSE1,PKDREJ,TRMU,TTC38 |
| 5 | 117,675,000 | 117,825,000 | 1570 | 827 | 0.071751211 | CELSR1,GTSE1,PKDREJ,TRMU |
| 5 | 117,750,000 | 117,900,000 | 1571 | 1259 | 0.182992031 | CELSR1,TRMU |
| 5 | 117,825,000 | 117,975,000 | 1572 | 1120 | -0.081351542 | CELSR1 |
| 5 | 117,900,000 | 118,050,000 | 1573 | 692 | -0.443840941 | CERK,GRAMD4 |
| 5 | 117,975,000 | 118,125,000 | 1574 | 868 | -1.365565096 | CERK,GRAMD4,TBC1D22A |
| 5 | 118,050,000 | 118,200,000 | 1575 | 1158 | -0.805683414 | TBC1D22A |
| 5 | 118,125,000 | 118,275,000 | 1576 | 1117 | 0.24047086 | TBC1D22A |
| 5 | 118,200,000 | 118,350,000 | 1577 | 1211 | 0.22233126 | TBC1D22A |
| 5 | 118,275,000 | 118,425,000 | 1578 | 1346 | -0.592873699 | TBC1D22A |
| 5 | 118,350,000 | 118,500,000 | 1579 | 1335 | -0.345712882 | |
| 5 | 118,425,000 | 118,575,000 | 1580 | 1297 | 0.378444075 | |
| 5 | 118,500,000 | 118,650,000 | 1581 | 1197 | 0.115877782 | |
| 5 | 118,575,000 | 118,725,000 | 1582 | 1469 | 0.407724849 | |
| 5 | 118,650,000 | 118,800,000 | 1583 | 1900 | 0.609106147 | |
| 5 | 118,725,000 | 118,875,000 | 1584 | 1951 | -0.010726366 | |
| 5 | 118,800,000 | 118,950,000 | 1585 | 1647 | -1.006644584 | |
| 5 | 118,875,000 | 119,025,000 | 1586 | 1814 | -0.522367077 | |
| 5 | 118,950,000 | 119,100,000 | 1587 | 1662 | -2.054874047 | |
| 5 | 119,025,000 | 119,175,000 | 1588 | 1469 | -2.816173746 | |
| 5 | 119,100,000 | 119,250,000 | 1589 | 1561 | -1.109448085 | |
| 5 | 119,175,000 | 119,325,000 | 1590 | 1486 | -0.856175468 | |
| 5 | 119,250,000 | 119,400,000 | 1591 | 1563 | -0.133081103 | |
| 5 | 119,325,000 | 119,475,000 | 1592 | 1248 | 1.225442528 | FAM19A5 |
| 5 | 119,400,000 | 119,550,000 | 1593 | 916 | 0.942893797 | FAM19A5 |
| 5 | 119,475,000 | 119,625,000 | 1594 | 798 | -0.915361634 | FAM19A5 |
| 5 | 119,550,000 | 119,700,000 | 1595 | 1218 | -0.040331809 | FAM19A5,ENSBTAG00000026385,ENSBTAG00000030185 |
| 5 | 119,625,000 | 119,775,000 | 1596 | 1678 | 0.751209 | SELO,ENSBTAG00000026385,ENSBTAG00000030185 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 5 | 119,700,000 | 119,850,000 | 1597 | 1095 | 1.022350802 | HDAC10,MAPK11,MAPK12,PLXNB2,SELO,TUBGCP6 |
| 5 | 119,775,000 | 119,925,000 | 1598 | 491 | 1.210621737 | DENND6B,HDAC10,MAPK11,MAPK12,PLXNB2,SELO,TUBGCP6 |
| 5 | 119,850,000 | 120,000,000 | 1599 | 419 | 1.262140135 | ADM2,DENND6B,PLXNB2,PPP6R2,SBF1 |
| 5 | 119,925,000 | 120,075,000 | 1600 | 322 | 1.264577952 | ADM2,KLHDC7B,LMF2,MGC128071,MIOX,NCAPH2,PPP6R2,SBF1,SCO2,SYCE3,ENSBTAG00000046250 |
| 5 | 120,000,000 | 120,150,000 | 1601 | 344 | 0.750100418 | CHKB,CPT1B,KLHDC7B,LMF2,MAPK8IP2,MGC128071,MIOX,NCAPH2,PPP6R2,SCO2,SYCE3,ENSBTAG00000046250 |
| 5 | 120,075,000 | 120,225,000 | 1602 | 350 | 0.73693701 | ACR,ARSA,CHKB,CPT1B,MAPK8IP2,SYCE3,ENSBTAG0000030180 |
| 5 | 120,150,000 | 120,300,000 | 1603 | 433 | 0.982620299 | ACR,ARSA,RABL2B,ENSBTAG00000030180 |
| 5 | 120,225,000 | 120,375,000 | 1604 | 1153 | 1.265854712 | ACR,RABL2B |
| 5 | 120,300,000 | 120,450,000 | 1605 | 1353 | 1.232904412 | |
| 5 | 120,375,000 | 120,525,000 | 1606 | 962 | 0.656495431 | |
| 5 | 120,450,000 | 120,600,000 | 1607 | 1284 | 0.648781783 | |
| 5 | 120,525,000 | 120,675,000 | 1608 | 1493 | 0.400890113 | |
| 5 | 120,600,000 | 120,750,000 | 1609 | 1608 | 0.075066645 | |
| 5 | 120,675,000 | 120,825,000 | 1610 | 1555 | 0.164766129 | ENSBTAG00000014987 |
| 5 | 120,750,000 | 120,900,000 | 1611 | 963 | 0.000788382 | BRD1,ENSBTAG00000014987 |
| 5 | 120,825,000 | 120,975,000 | 1612 | 575 | -0.356761507 | ALG12,BRD1,CRELD2,PIM3 |
| 5 | 120,900,000 | 121,050,000 | 1613 | 435 | -0.70021995 | ALG12,CRELD2,IL17REL,PIM3,TTLL8 |
| 5 | 120,975,000 | 121,125,000 | 1614 | 539 | 0.440947798 | IL17REL,MLC1,MOV10L1,TTLL8 |
| 5 | 121,050,000 | 121,191,424 | 1615 | 530 | 1.036378396 | MLC1,MOV10L1,PANX2,TRABD,TTLL8,ENSBTAG00000047080 |
| 6 | 0 | 150,000 | 1 | 387 | -1.251973295 | ENSBTAG00000040324 |
| 6 | 75,000 | 225,000 | 2 | 769 | -0.706357795 | |
| 6 | 150,000 | 300,000 | 3 | 987 | -0.275627174 | |
| 6 | 225,000 | 375,000 | 4 | 1012 | 0.472700005 | |
| 6 | 300,000 | 450,000 | 5 | 1010 | -0.000940486 | |
| 6 | 375,000 | 525,000 | 6 | 1004 | -0.485632888 | |
| 6 | 450,000 | 600,000 | 7 | 1140 | -0.727051503 | |
| 6 | 525,000 | 675,000 | 8 | 1316 | -0.571609633 | |
| 6 | 600,000 | 750,000 | 9 | 1132 | -0.116811932 | |
| 6 | 675,000 | 825,000 | 10 | 827 | 0.072215114 | |
| 6 | 750,000 | 900,000 | 11 | 1102 | 0.258014246 | |
| 6 | 825,000 | 975,000 | 12 | 1288 | 0.564126498 | |
| 6 | 900,000 | 1,050,000 | 13 | 1323 | 0.700961013 | |
| 6 | 975,000 | 1,125,000 | 14 | 1606 | -0.282422161 | |
| 6 | 1,050,000 | 1,200,000 | 15 | 1632 | -0.293807866 | |
| 6 | 1,125,000 | 1,275,000 | 16 | 1203 | 0.661164157 | |
| 6 | 1,200,000 | 1,350,000 | 17 | 766 | 0.56539598 | |
| 6 | 1,275,000 | 1,425,000 | 18 | 614 | -0.251858456 | |
| 6 | 1,350,000 | 1,500,000 | 19 | 731 | -0.460511135 | |
| 6 | 1,425,000 | 1,575,000 | 20 | 895 | 0.014017135 | |
| 6 | 1,500,000 | 1,650,000 | 21 | 1091 | 0.512634313 | |
| 6 | 1,575,000 | 1,725,000 | 22 | 1140 | 0.859826 | |
| 6 | 1,650,000 | 1,800,000 | 23 | 1289 | 1.155586849 | |
| 6 | 1,725,000 | 1,875,000 | 24 | 980 | 1.210135325 | |
| 6 | 1,800,000 | 1,950,000 | 25 | 700 | 0.368766313 | |
| 6 | 1,875,000 | 2,025,000 | 26 | 910 | 0.444132298 | |
| 6 | 1,950,000 | 2,100,000 | 27 | 797 | 1.248616731 | MARCH1,TMA16 |
| 6 | 2,025,000 | 2,175,000 | 28 | 709 | 1.116175184 | MARCH1,TKTL2,TMA16 |

01-Mar

01-Mar

| | | | | | | |
|---|-----------|-----------|----|------|--------------|--|
| 6 | 2,100,000 | 2,250,000 | 29 | 692 | 0.319921713 | TKTL2,TMA16 |
| 6 | 2,175,000 | 2,325,000 | 30 | 759 | 0.507592448 | |
| 6 | 2,250,000 | 2,400,000 | 31 | 929 | 0.385944477 | NPY5R |
| 6 | 2,325,000 | 2,475,000 | 32 | 1037 | 0.326335352 | NPY1R,NPY5R |
| 6 | 2,400,000 | 2,550,000 | 33 | 719 | 0.385950731 | NPY1R |
| 6 | 2,475,000 | 2,625,000 | 34 | 627 | 0.205573081 | NAF1 |
| 6 | 2,550,000 | 2,700,000 | 35 | 666 | -0.211839422 | NAF1 |
| 6 | 2,625,000 | 2,775,000 | 36 | 932 | -0.087355791 | NAF1 |
| 6 | 2,700,000 | 2,850,000 | 37 | 1072 | 0.457748975 | |
| 6 | 2,775,000 | 2,925,000 | 38 | 624 | 0.949132514 | |
| 6 | 2,850,000 | 3,000,000 | 39 | 761 | 0.316695003 | |
| 6 | 2,925,000 | 3,075,000 | 40 | 1177 | 0.117408737 | |
| 6 | 3,000,000 | 3,150,000 | 41 | 1285 | 0.369150865 | |
| 6 | 3,075,000 | 3,225,000 | 42 | 1163 | 0.709472869 | |
| 6 | 3,150,000 | 3,300,000 | 43 | 806 | 0.258926557 | |
| 6 | 3,225,000 | 3,375,000 | 44 | 614 | 0.061546692 | |
| 6 | 3,300,000 | 3,450,000 | 45 | 699 | 0.547083793 | BBS7,CCNA2,EXOSC9 |
| 6 | 3,375,000 | 3,525,000 | 46 | 1154 | 0.615685226 | BBS7,CCNA2,EXOSC9 |
| 6 | 3,450,000 | 3,600,000 | 47 | 1575 | -0.41553588 | ANXA5 |
| 6 | 3,525,000 | 3,675,000 | 48 | 1437 | -0.899050632 | ANXA5 |
| 6 | 3,600,000 | 3,750,000 | 49 | 1315 | 0.584399882 | |
| 6 | 3,675,000 | 3,825,000 | 50 | 1084 | 0.645896319 | |
| 6 | 3,750,000 | 3,900,000 | 51 | 972 | 0.634492571 | |
| 6 | 3,825,000 | 3,975,000 | 52 | 1283 | 0.564726641 | |
| 6 | 3,900,000 | 4,050,000 | 53 | 1403 | 0.530780601 | |
| 6 | 3,975,000 | 4,125,000 | 54 | 1259 | 0.546408351 | QRFPR |
| 6 | 4,050,000 | 4,200,000 | 55 | 1420 | 0.639953606 | QRFPR |
| 6 | 4,125,000 | 4,275,000 | 56 | 1310 | 0.573185029 | QRFPR |
| 6 | 4,200,000 | 4,350,000 | 57 | 904 | -0.219685175 | |
| 6 | 4,275,000 | 4,425,000 | 58 | 992 | 0.169688016 | C6H4ORF31 |
| 6 | 4,350,000 | 4,500,000 | 59 | 1189 | 1.019644355 | C6H4ORF31,PRDM5 |
| 6 | 4,425,000 | 4,575,000 | 60 | 887 | 1.078401011 | PRDM5 |
| 6 | 4,500,000 | 4,650,000 | 61 | 623 | 0.49248801 | PRDM5 |
| 6 | 4,575,000 | 4,725,000 | 62 | 802 | 0.381792286 | PRDM5 |
| 6 | 4,650,000 | 4,800,000 | 63 | 948 | 0.418331868 | PRDM5 |
| 6 | 4,725,000 | 4,875,000 | 64 | 998 | -0.535078533 | PRDM5 |
| 6 | 4,800,000 | 4,950,000 | 65 | 798 | -0.89177135 | |
| 6 | 4,875,000 | 5,025,000 | 66 | 550 | 0.561446979 | |
| 6 | 4,950,000 | 5,100,000 | 67 | 607 | 0.95658753 | |
| 6 | 5,025,000 | 5,175,000 | 68 | 885 | 0.490322328 | |
| 6 | 5,100,000 | 5,250,000 | 69 | 978 | -1.060013946 | |
| 6 | 5,175,000 | 5,325,000 | 70 | 532 | -1.668684253 | |
| 6 | 5,250,000 | 5,400,000 | 71 | 81 | -0.318658275 | ENSBTAG00000037426 |
| 6 | 5,325,000 | 5,475,000 | 72 | 27 | -2.469316573 | ENSBTAG00000037426,ENSBTAG00000047900 |
| 6 | 5,400,000 | 5,550,000 | 73 | 0 | -100 | ENSBTAG00000024874,ENSBTAG00000035129,ENSBTAG00000047900 |
| 6 | 5,475,000 | 5,625,000 | 74 | 1 | -0.177418285 | ENSBTAG00000024874,ENSBTAG00000035129,ENSBTAG00000047900 |
| 6 | 5,550,000 | 5,700,000 | 75 | 1 | -0.177418285 | ENSBTAG00000035129 |
| 6 | 5,625,000 | 5,775,000 | 76 | 0 | -100 | |
| 6 | 5,700,000 | 5,850,000 | 77 | 0 | -100 | |
| 6 | 5,775,000 | 5,925,000 | 78 | 3 | 1.601668825 | |
| 6 | 5,850,000 | 6,000,000 | 79 | 32 | -0.18609544 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|--------------------------------------|
| 6 | 5,925,000 | 6,075,000 | 80 | 51 | -8.522760132 | ENSBTAG00000035319 |
| 6 | 6,000,000 | 6,150,000 | 81 | 22 | -8.798825146 | ENSBTAG00000035319 |
| 6 | 6,075,000 | 6,225,000 | 82 | 0 | -100 | MGC134093,ENSBTAG00000040228 |
| 6 | 6,150,000 | 6,300,000 | 83 | 0 | -100 | MGC134093,ENSBTAG00000040228 |
| 6 | 6,225,000 | 6,375,000 | 84 | 0 | -100 | MGC134093,ENSBTAG00000040228 |
| 6 | 6,300,000 | 6,450,000 | 85 | 0 | -100 | |
| 6 | 6,375,000 | 6,525,000 | 86 | 204 | 1.552636551 | |
| 6 | 6,450,000 | 6,600,000 | 87 | 219 | 1.286568804 | |
| 6 | 6,525,000 | 6,675,000 | 88 | 148 | 1.233373507 | |
| 6 | 6,600,000 | 6,750,000 | 89 | 644 | 1.410353959 | |
| 6 | 6,675,000 | 6,825,000 | 90 | 921 | -0.044906038 | |
| 6 | 6,750,000 | 6,900,000 | 91 | 654 | -0.696233469 | PDE5A |
| 6 | 6,825,000 | 6,975,000 | 92 | 598 | 0.135517607 | PDE5A |
| 6 | 6,900,000 | 7,050,000 | 93 | 699 | 0.149884627 | PDE5A |
| 6 | 6,975,000 | 7,125,000 | 94 | 697 | 0.596542933 | FABP2,PDE5A |
| 6 | 7,050,000 | 7,200,000 | 95 | 917 | 0.536279449 | FABP2,PDE5A,USP53,ENSBTAG00000048273 |
| 6 | 7,125,000 | 7,275,000 | 96 | 939 | 0.675075949 | MYOZ2,USP53,ENSBTAG00000048273 |
| 6 | 7,200,000 | 7,350,000 | 97 | 782 | 0.605477771 | MYOZ2,USP53 |
| 6 | 7,275,000 | 7,425,000 | 98 | 733 | -0.218485044 | MYOZ2,SYNPO2 |
| 6 | 7,350,000 | 7,500,000 | 99 | 630 | -0.320463257 | SYNPO2 |
| 6 | 7,425,000 | 7,575,000 | 100 | 784 | -0.080537317 | SYNPO2 |
| 6 | 7,500,000 | 7,650,000 | 101 | 843 | 0.203257586 | SYNPO2 |
| 6 | 7,575,000 | 7,725,000 | 102 | 1045 | 0.547883807 | SEC24D,SYNPO2 |
| 6 | 7,650,000 | 7,800,000 | 103 | 1114 | 0.42232969 | METTL14,SEC24D |
| 6 | 7,725,000 | 7,875,000 | 104 | 917 | 0.189152882 | METTL14,SEC24D |
| 6 | 7,800,000 | 7,950,000 | 105 | 985 | 0.495184037 | METTL14,PRSS12 |
| 6 | 7,875,000 | 8,025,000 | 106 | 990 | -0.093924094 | PRSS12 |
| 6 | 7,950,000 | 8,100,000 | 107 | 866 | -0.528715917 | NDST3,PRSS12 |
| 6 | 8,025,000 | 8,175,000 | 108 | 721 | 0.980198081 | NDST3 |
| 6 | 8,100,000 | 8,250,000 | 109 | 554 | 0.861349363 | NDST3 |
| 6 | 8,175,000 | 8,325,000 | 110 | 687 | 1.120324856 | NDST3 |
| 6 | 8,250,000 | 8,400,000 | 111 | 913 | 0.754273473 | NDST3 |
| 6 | 8,325,000 | 8,475,000 | 112 | 1098 | 0.473518441 | RPL39 |
| 6 | 8,400,000 | 8,550,000 | 113 | 1243 | 0.452779265 | RPL39 |
| 6 | 8,475,000 | 8,625,000 | 114 | 1330 | 0.000669528 | |
| 6 | 8,550,000 | 8,700,000 | 115 | 1378 | 0.372636373 | |
| 6 | 8,625,000 | 8,775,000 | 116 | 957 | 0.581968546 | |
| 6 | 8,700,000 | 8,850,000 | 117 | 1014 | 0.843190777 | |
| 6 | 8,775,000 | 8,925,000 | 118 | 1199 | 0.411306744 | |
| 6 | 8,850,000 | 9,000,000 | 119 | 853 | -0.185704219 | |
| 6 | 8,925,000 | 9,075,000 | 120 | 829 | 0.403599006 | ENSBTAG00000034849 |
| 6 | 9,000,000 | 9,150,000 | 121 | 790 | 0.919984044 | ENSBTAG00000034849 |
| 6 | 9,075,000 | 9,225,000 | 122 | 457 | 0.788273766 | |
| 6 | 9,150,000 | 9,300,000 | 123 | 431 | 0.935297563 | |
| 6 | 9,225,000 | 9,375,000 | 124 | 731 | 0.114239383 | |
| 6 | 9,300,000 | 9,450,000 | 125 | 1008 | -0.230987139 | |
| 6 | 9,375,000 | 9,525,000 | 126 | 1255 | 0.086389195 | TRAM1L1 |
| 6 | 9,450,000 | 9,600,000 | 127 | 1875 | 0.453832436 | TRAM1L1 |
| 6 | 9,525,000 | 9,675,000 | 128 | 2014 | 0.751930244 | |
| 6 | 9,600,000 | 9,750,000 | 129 | 1512 | 1.035801604 | |
| 6 | 9,675,000 | 9,825,000 | 130 | 994 | 0.888153271 | |
| 6 | 9,750,000 | 9,900,000 | 131 | 1038 | 0.614714243 | |
| 6 | 9,825,000 | 9,975,000 | 132 | 1825 | 0.060759396 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------|
| 6 | 9,900,000 | 10,050,000 | 133 | 1673 | -0.18507411 | |
| 6 | 9,975,000 | 10,125,000 | 134 | 1289 | 0.379130032 | |
| 6 | 10,050,000 | 10,200,000 | 135 | 1394 | 0.815517197 | |
| 6 | 10,125,000 | 10,275,000 | 136 | 1224 | -0.386961854 | |
| 6 | 10,200,000 | 10,350,000 | 137 | 1329 | -0.932904796 | |
| 6 | 10,275,000 | 10,425,000 | 138 | 1505 | 0.055049186 | |
| 6 | 10,350,000 | 10,500,000 | 139 | 1632 | 0.898950631 | |
| 6 | 10,425,000 | 10,575,000 | 140 | 1692 | 1.040966631 | |
| 6 | 10,500,000 | 10,650,000 | 141 | 1560 | 0.723329601 | |
| 6 | 10,575,000 | 10,725,000 | 142 | 1265 | 0.032473847 | |
| 6 | 10,650,000 | 10,800,000 | 143 | 1197 | 0.364190484 | |
| 6 | 10,725,000 | 10,875,000 | 144 | 1170 | 0.337834323 | |
| 6 | 10,800,000 | 10,950,000 | 145 | 1029 | -1.309797695 | |
| 6 | 10,875,000 | 11,025,000 | 146 | 1115 | -1.670558021 | |
| 6 | 10,950,000 | 11,100,000 | 147 | 930 | -1.13043713 | |
| 6 | 11,025,000 | 11,175,000 | 148 | 714 | -0.180201461 | |
| 6 | 11,100,000 | 11,250,000 | 149 | 744 | -0.067633243 | |
| 6 | 11,175,000 | 11,325,000 | 150 | 904 | -0.277704536 | |
| 6 | 11,250,000 | 11,400,000 | 151 | 781 | 0.33664384 | |
| 6 | 11,325,000 | 11,475,000 | 152 | 712 | 0.753859208 | |
| 6 | 11,400,000 | 11,550,000 | 153 | 969 | 0.946190377 | |
| 6 | 11,475,000 | 11,625,000 | 154 | 1192 | 0.974622492 | |
| 6 | 11,550,000 | 11,700,000 | 155 | 1502 | 0.082487053 | NDST4 |
| 6 | 11,625,000 | 11,775,000 | 156 | 1495 | 0.043846289 | NDST4 |
| 6 | 11,700,000 | 11,850,000 | 157 | 1614 | 1.201759 | NDST4 |
| 6 | 11,775,000 | 11,925,000 | 158 | 1682 | 1.123605772 | NDST4 |
| 6 | 11,850,000 | 12,000,000 | 159 | 1355 | 1.06249579 | NDST4 |
| 6 | 11,925,000 | 12,075,000 | 160 | 1373 | 1.056965333 | NDST4 |
| 6 | 12,000,000 | 12,150,000 | 161 | 1230 | 0.674827427 | UGT8 |
| 6 | 12,075,000 | 12,225,000 | 162 | 1317 | 0.040853769 | UGT8 |
| 6 | 12,150,000 | 12,300,000 | 163 | 1764 | -1.029318466 | UGT8 |
| 6 | 12,225,000 | 12,375,000 | 164 | 1917 | -0.497703114 | |
| 6 | 12,300,000 | 12,450,000 | 165 | 2076 | 0.550849029 | |
| 6 | 12,375,000 | 12,525,000 | 166 | 2065 | 0.692591072 | |
| 6 | 12,450,000 | 12,600,000 | 167 | 1928 | -1.519107509 | |
| 6 | 12,525,000 | 12,675,000 | 168 | 1837 | -3.860436573 | |
| 6 | 12,600,000 | 12,750,000 | 169 | 1919 | -1.629194503 | ARSJ |
| 6 | 12,675,000 | 12,825,000 | 170 | 2224 | 0.047026996 | ARSJ |
| 6 | 12,750,000 | 12,900,000 | 171 | 2243 | 0.316386604 | ARSJ |
| 6 | 12,825,000 | 12,975,000 | 172 | 1784 | 0.564098119 | CAMK2D |
| 6 | 12,900,000 | 13,050,000 | 173 | 1480 | 0.585881664 | CAMK2D |
| 6 | 12,975,000 | 13,125,000 | 174 | 1507 | 0.361062343 | CAMK2D |
| 6 | 13,050,000 | 13,200,000 | 175 | 1373 | 0.344805486 | CAMK2D |
| 6 | 13,125,000 | 13,275,000 | 176 | 942 | 0.531994892 | CAMK2D |
| 6 | 13,200,000 | 13,350,000 | 177 | 922 | 0.500668864 | CAMK2D |
| 6 | 13,275,000 | 13,425,000 | 178 | 914 | 0.043347625 | ANK2 |
| 6 | 13,350,000 | 13,500,000 | 179 | 461 | -0.209402719 | ANK2 |
| 6 | 13,425,000 | 13,575,000 | 180 | 449 | -0.210812424 | ANK2 |
| 6 | 13,500,000 | 13,650,000 | 181 | 1028 | -0.908888906 | ANK2 |
| 6 | 13,575,000 | 13,725,000 | 182 | 1294 | -2.627380201 | |
| 6 | 13,650,000 | 13,800,000 | 183 | 840 | -3.084799578 | |
| 6 | 13,725,000 | 13,875,000 | 184 | 955 | -1.032588484 | |
| 6 | 13,800,000 | 13,950,000 | 185 | 1150 | -0.611756795 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 6 | 13,875,000 | 14,025,000 | 186 | 836 | 0.178979121 | |
| 6 | 13,950,000 | 14,100,000 | 187 | 1046 | -0.595394915 | |
| 6 | 14,025,000 | 14,175,000 | 188 | 1090 | -0.106974835 | LARP7,ENSBTAG00000026936 |
| 6 | 14,100,000 | 14,250,000 | 189 | 565 | 0.745364204 | LARP7,NEUROG2,ZGRF1,ENSBTAG00000026936 |
| 6 | 14,175,000 | 14,325,000 | 190 | 554 | 0.462790624 | ALPK1,NEUROG2,ZGRF1,ENSBTAG00000026936 |
| 6 | 14,250,000 | 14,400,000 | 191 | 859 | 0.500415917 | ALPK1,NEUROG2 |
| 6 | 14,325,000 | 14,475,000 | 192 | 1075 | -0.363070519 | ALPK1,MGC155012,TIFA |
| 6 | 14,400,000 | 14,550,000 | 193 | 840 | -1.001484242 | C6H4orf32,MGC155012,TIFA |
| 6 | 14,475,000 | 14,625,000 | 194 | 700 | -0.481664855 | C6H4orf32 |
| 6 | 14,550,000 | 14,700,000 | 195 | 958 | -1.268088759 | C6H4orf32 |
| 6 | 14,625,000 | 14,775,000 | 196 | 996 | -0.999447585 | |
| 6 | 14,700,000 | 14,850,000 | 197 | 911 | -0.182904384 | |
| 6 | 14,775,000 | 14,925,000 | 198 | 1077 | 0.030062207 | |
| 6 | 14,850,000 | 15,000,000 | 199 | 1368 | 0.798644388 | |
| 6 | 14,925,000 | 15,075,000 | 200 | 1475 | 1.151925685 | |
| 6 | 15,000,000 | 15,150,000 | 201 | 1384 | 0.956965721 | |
| 6 | 15,075,000 | 15,225,000 | 202 | 1144 | 0.297622526 | |
| 6 | 15,150,000 | 15,300,000 | 203 | 1156 | 0.359123689 | |
| 6 | 15,225,000 | 15,375,000 | 204 | 1086 | 0.434106235 | |
| 6 | 15,300,000 | 15,450,000 | 205 | 860 | -0.013340153 | |
| 6 | 15,375,000 | 15,525,000 | 206 | 994 | -0.631516824 | |
| 6 | 15,450,000 | 15,600,000 | 207 | 939 | -0.847724195 | |
| 6 | 15,525,000 | 15,675,000 | 208 | 630 | -0.417308296 | |
| 6 | 15,600,000 | 15,750,000 | 209 | 624 | -0.861248601 | |
| 6 | 15,675,000 | 15,825,000 | 210 | 581 | -0.370252901 | |
| 6 | 15,750,000 | 15,900,000 | 211 | 533 | 0.862716651 | |
| 6 | 15,825,000 | 15,975,000 | 212 | 733 | 1.054031669 | |
| 6 | 15,900,000 | 16,050,000 | 213 | 639 | 1.073415879 | PITX2 |
| 6 | 15,975,000 | 16,125,000 | 214 | 493 | 0.483697347 | ENPEP,PITX2 |
| 6 | 16,050,000 | 16,200,000 | 215 | 777 | -0.033223341 | ENPEP |
| 6 | 16,125,000 | 16,275,000 | 216 | 661 | 0.073622917 | ENPEP |
| 6 | 16,200,000 | 16,350,000 | 217 | 501 | 0.67220002 | |
| 6 | 16,275,000 | 16,425,000 | 218 | 554 | 0.425398181 | MGC139109,ENSBTAG00000038368 |
| 6 | 16,350,000 | 16,500,000 | 219 | 483 | -0.685285126 | MGC139109,ENSBTAG00000038368 |
| 6 | 16,425,000 | 16,575,000 | 220 | 725 | -1.373343508 | MGC139109 |
| 6 | 16,500,000 | 16,650,000 | 221 | 1023 | 0.073444385 | MGC139109 |
| 6 | 16,575,000 | 16,725,000 | 222 | 953 | 0.117938439 | LRIT3,RPS26 |
| 6 | 16,650,000 | 16,800,000 | 223 | 929 | -0.228321043 | CFI,GAR1,LRIT3,RPS26,RRH |
| 6 | 16,725,000 | 16,875,000 | 224 | 846 | 0.161281641 | CASP6,CCDC109B,CFI,GAR1,PLA2G12A,RRH |
| 6 | 16,800,000 | 16,950,000 | 225 | 717 | -0.261987663 | CASP6,CCDC109B,CFI,PLA2G12A |
| 6 | 16,875,000 | 17,025,000 | 226 | 836 | 0.220999571 | CCDC109B,SEC24B |
| 6 | 16,950,000 | 17,100,000 | 227 | 664 | 0.088217443 | CCDC109B,SEC24B |
| 6 | 17,025,000 | 17,175,000 | 228 | 657 | -0.511294885 | SEC24B |
| 6 | 17,100,000 | 17,250,000 | 229 | 762 | 0.537097774 | |
| 6 | 17,175,000 | 17,325,000 | 230 | 527 | 1.045639533 | |
| 6 | 17,250,000 | 17,400,000 | 231 | 525 | 0.506654961 | |
| 6 | 17,325,000 | 17,475,000 | 232 | 709 | -0.268863311 | |
| 6 | 17,400,000 | 17,550,000 | 233 | 929 | 0.234642757 | COL25A1 |
| 6 | 17,475,000 | 17,625,000 | 234 | 825 | 0.547542093 | COL25A1 |
| 6 | 17,550,000 | 17,700,000 | 235 | 589 | 0.234771959 | COL25A1 |
| 6 | 17,625,000 | 17,775,000 | 236 | 864 | 0.712033175 | COL25A1,ETNPPL |
| 6 | 17,700,000 | 17,850,000 | 237 | 1045 | 0.590331215 | ETNPPL,OSTC,RPL34 |
| 6 | 17,775,000 | 17,925,000 | 238 | 743 | 0.684698788 | OSTC,RPL34 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 17,850,000 | 18,000,000 | 239 | 263 | 1.133842778 | |
| 6 | 17,925,000 | 18,075,000 | 240 | 364 | 1.175290128 | |
| 6 | 18,000,000 | 18,150,000 | 241 | 763 | 0.381479351 | |
| 6 | 18,075,000 | 18,225,000 | 242 | 683 | -0.734375403 | |
| 6 | 18,150,000 | 18,300,000 | 243 | 465 | -1.101555151 | |
| 6 | 18,225,000 | 18,375,000 | 244 | 461 | -0.058774339 | LEF1 |
| 6 | 18,300,000 | 18,450,000 | 245 | 516 | 0.809549956 | LEF1 |
| 6 | 18,375,000 | 18,525,000 | 246 | 608 | 0.721763005 | CYP2U1,HADH,LEF1 |
| 6 | 18,450,000 | 18,600,000 | 247 | 627 | 0.410386515 | CYP2U1,HADH,LEF1,SGMS2 |
| 6 | 18,525,000 | 18,675,000 | 248 | 943 | 0.678779651 | CYP2U1,SGMS2 |
| 6 | 18,600,000 | 18,750,000 | 249 | 1354 | 0.26910107 | PAPSS1 |
| 6 | 18,675,000 | 18,825,000 | 250 | 1150 | 0.044370339 | PAPSS1 |
| 6 | 18,750,000 | 18,900,000 | 251 | 820 | 0.86197858 | PAPSS1 |
| 6 | 18,825,000 | 18,975,000 | 252 | 810 | 0.312650896 | PAPSS1 |
| 6 | 18,900,000 | 19,050,000 | 253 | 932 | -1.134174184 | |
| 6 | 18,975,000 | 19,125,000 | 254 | 1152 | -0.062782061 | |
| 6 | 19,050,000 | 19,200,000 | 255 | 1505 | 0.862935005 | |
| 6 | 19,125,000 | 19,275,000 | 256 | 1224 | 0.382269975 | |
| 6 | 19,200,000 | 19,350,000 | 257 | 971 | -1.532945041 | |
| 6 | 19,275,000 | 19,425,000 | 258 | 896 | -1.637344307 | DKK2 |
| 6 | 19,350,000 | 19,500,000 | 259 | 652 | -0.220219605 | DKK2 |
| 6 | 19,425,000 | 19,575,000 | 260 | 557 | -0.408792468 | DKK2 |
| 6 | 19,500,000 | 19,650,000 | 261 | 636 | 0.582276796 | DKK2 |
| 6 | 19,575,000 | 19,725,000 | 262 | 642 | -0.240415461 | |
| 6 | 19,650,000 | 19,800,000 | 263 | 630 | -2.638741597 | |
| 6 | 19,725,000 | 19,875,000 | 264 | 738 | -1.283237211 | |
| 6 | 19,800,000 | 19,950,000 | 265 | 573 | 0.629095045 | |
| 6 | 19,875,000 | 20,025,000 | 266 | 524 | 1.131486184 | |
| 6 | 19,950,000 | 20,100,000 | 267 | 537 | 0.249689402 | GIMD1 |
| 6 | 20,025,000 | 20,175,000 | 268 | 953 | -0.480235866 | GIMD1,SCYE1,TBCK |
| 6 | 20,100,000 | 20,250,000 | 269 | 1265 | 0.352854647 | GIMD1,SCYE1,TBCK |
| 6 | 20,175,000 | 20,325,000 | 270 | 1063 | 0.315747699 | TBCK |
| 6 | 20,250,000 | 20,400,000 | 271 | 942 | -0.460625157 | TBCK |
| 6 | 20,325,000 | 20,475,000 | 272 | 712 | -0.306978442 | NPNT,TBCK,ENSBTAG00000038232 |
| 6 | 20,400,000 | 20,550,000 | 273 | 737 | -0.023151195 | NPNT,ENSBTAG00000038232 |
| 6 | 20,475,000 | 20,625,000 | 274 | 917 | 0.210639398 | GSTCD,NPNT |
| 6 | 20,550,000 | 20,700,000 | 275 | 987 | -0.682802183 | GSTCD |
| 6 | 20,625,000 | 20,775,000 | 276 | 972 | -0.918388564 | GSTCD,INTS12,ENSBTAG00000008797 |
| 6 | 20,700,000 | 20,850,000 | 277 | 1282 | -0.211544479 | GSTCD,INTS12,ENSBTAG00000008797,ENSBTAG0000033643 |
| 6 | 20,775,000 | 20,925,000 | 278 | 1484 | 0.042096519 | ENSBTAG00000008797,ENSBTAG00000033643 |
| 6 | 20,850,000 | 21,000,000 | 279 | 1305 | 0.287443012 | PPA2,ENSBTAG00000033643 |
| 6 | 20,925,000 | 21,075,000 | 280 | 951 | 0.075810135 | PPA2 |
| 6 | 21,000,000 | 21,150,000 | 281 | 882 | -0.223302167 | PPA2 |
| 6 | 21,075,000 | 21,225,000 | 282 | 961 | 0.393833998 | PPA2,TET2 |
| 6 | 21,150,000 | 21,300,000 | 283 | 891 | 1.221660286 | TET2 |
| 6 | 21,225,000 | 21,375,000 | 284 | 873 | 1.076657264 | |
| 6 | 21,300,000 | 21,450,000 | 285 | 787 | 0.300943393 | |
| 6 | 21,375,000 | 21,525,000 | 286 | 999 | -0.531577584 | |
| 6 | 21,450,000 | 21,600,000 | 287 | 1040 | -0.29437512 | |
| 6 | 21,525,000 | 21,675,000 | 288 | 673 | -0.218149312 | |
| 6 | 21,600,000 | 21,750,000 | 289 | 394 | -1.123730497 | |
| 6 | 21,675,000 | 21,825,000 | 290 | 795 | 0.586328817 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------|
| 6 | 21,750,000 | 21,900,000 | 291 | 1340 | 0.367592325 | |
| 6 | 21,825,000 | 21,975,000 | 292 | 1118 | 0.434358019 | |
| 6 | 21,900,000 | 22,050,000 | 293 | 580 | 0.878700389 | CXXC4 |
| 6 | 21,975,000 | 22,125,000 | 294 | 435 | -0.269481728 | CXXC4 |
| 6 | 22,050,000 | 22,200,000 | 295 | 468 | -0.521832789 | |
| 6 | 22,125,000 | 22,275,000 | 296 | 719 | 0.258268657 | |
| 6 | 22,200,000 | 22,350,000 | 297 | 696 | 0.206023162 | |
| 6 | 22,275,000 | 22,425,000 | 298 | 358 | 0.237112629 | |
| 6 | 22,350,000 | 22,500,000 | 299 | 710 | 0.937903243 | |
| 6 | 22,425,000 | 22,575,000 | 300 | 1181 | 0.745787076 | |
| 6 | 22,500,000 | 22,650,000 | 301 | 1048 | 0.347898724 | TACR3 |
| 6 | 22,575,000 | 22,725,000 | 302 | 673 | 0.822862749 | TACR3 |
| 6 | 22,650,000 | 22,800,000 | 303 | 589 | 1.103157144 | TACR3 |
| 6 | 22,725,000 | 22,875,000 | 304 | 498 | 0.524213565 | TACR3 |
| 6 | 22,800,000 | 22,950,000 | 305 | 388 | -1.821768694 | |
| 6 | 22,875,000 | 23,025,000 | 306 | 712 | -0.756715768 | CENPE |
| 6 | 22,950,000 | 23,100,000 | 307 | 1092 | -0.010479317 | BDH2,CENPE,SLC9B2 |
| 6 | 23,025,000 | 23,175,000 | 308 | 1388 | 0.065285289 | BDH2,CENPE,SLC9B2 |
| 6 | 23,100,000 | 23,250,000 | 309 | 1206 | 0.213430527 | NHEDC1,SLC9B2 |
| 6 | 23,175,000 | 23,325,000 | 310 | 686 | -0.702952169 | CISD2,NHEDC1,SLC9B2 |
| 6 | 23,250,000 | 23,400,000 | 311 | 519 | -2.229637195 | CISD2,MANBA,NHEDC1 |
| 6 | 23,325,000 | 23,475,000 | 312 | 798 | 0.047563052 | MANBA |
| 6 | 23,400,000 | 23,550,000 | 313 | 801 | 0.336374673 | MANBA |
| 6 | 23,475,000 | 23,625,000 | 314 | 486 | -0.695361933 | MANBA,NFKB1 |
| 6 | 23,550,000 | 23,700,000 | 315 | 466 | -1.266019893 | NFKB1 |
| 6 | 23,625,000 | 23,775,000 | 316 | 582 | 0.12495697 | NFKB1 |
| 6 | 23,700,000 | 23,850,000 | 317 | 595 | 0.557429614 | SLC39A8 |
| 6 | 23,775,000 | 23,925,000 | 318 | 682 | 0.805569269 | SLC39A8 |
| 6 | 23,850,000 | 24,000,000 | 319 | 1050 | 1.108167433 | SLC39A8 |
| 6 | 23,925,000 | 24,075,000 | 320 | 1148 | 1.22451118 | BANK1 |
| 6 | 24,000,000 | 24,150,000 | 321 | 992 | 1.066178376 | BANK1 |
| 6 | 24,075,000 | 24,225,000 | 322 | 916 | 1.082191624 | BANK1 |
| 6 | 24,150,000 | 24,300,000 | 323 | 984 | 0.693882528 | |
| 6 | 24,225,000 | 24,375,000 | 324 | 817 | 0.26600297 | |
| 6 | 24,300,000 | 24,450,000 | 325 | 685 | 0.147774544 | |
| 6 | 24,375,000 | 24,525,000 | 326 | 746 | 0.289369495 | |
| 6 | 24,450,000 | 24,600,000 | 327 | 567 | 0.225517372 | |
| 6 | 24,525,000 | 24,675,000 | 328 | 767 | -0.093028985 | |
| 6 | 24,600,000 | 24,750,000 | 329 | 896 | -0.349550034 | |
| 6 | 24,675,000 | 24,825,000 | 330 | 622 | -0.527584465 | PPP3CA |
| 6 | 24,750,000 | 24,900,000 | 331 | 513 | -0.421243896 | PPP3CA |
| 6 | 24,825,000 | 24,975,000 | 332 | 701 | -0.391438193 | PPP3CA |
| 6 | 24,900,000 | 25,050,000 | 333 | 779 | 0.017866762 | PPP3CA |
| 6 | 24,975,000 | 25,125,000 | 334 | 478 | 0.367791894 | PPP3CA |
| 6 | 25,050,000 | 25,200,000 | 335 | 394 | -0.404627165 | PPP3CA |
| 6 | 25,125,000 | 25,275,000 | 336 | 749 | -0.603738345 | PPP3CA |
| 6 | 25,200,000 | 25,350,000 | 337 | 729 | 0.07923077 | |
| 6 | 25,275,000 | 25,425,000 | 338 | 600 | 0.431025862 | |
| 6 | 25,350,000 | 25,500,000 | 339 | 931 | 0.209522381 | |
| 6 | 25,425,000 | 25,575,000 | 340 | 874 | 0.364863999 | |
| 6 | 25,500,000 | 25,650,000 | 341 | 887 | -1.737828511 | EMCN |
| 6 | 25,575,000 | 25,725,000 | 342 | 927 | -3.483823337 | EMCN |
| 6 | 25,650,000 | 25,800,000 | 343 | 833 | -1.802650546 | EMCN |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 25,725,000 | 25,875,000 | 344 | 661 | -0.148567616 | |
| 6 | 25,800,000 | 25,950,000 | 345 | 593 | 0.026812624 | DDIT4L |
| 6 | 25,875,000 | 26,025,000 | 346 | 881 | -0.114260234 | DDIT4L |
| 6 | 25,950,000 | 26,100,000 | 347 | 650 | -0.269848263 | MGC157237 |
| 6 | 26,025,000 | 26,175,000 | 348 | 405 | 0.426031104 | DAPP1,DNAJB14,H2AFZ,LAMTOR3,MGC157237 |
| 6 | 26,100,000 | 26,250,000 | 349 | 479 | 0.494188908 | DAPP1,DNAJB14,H2AFZ,LAMTOR3 |
| 6 | 26,175,000 | 26,325,000 | 350 | 446 | 0.482113345 | DAPP1 |
| 6 | 26,250,000 | 26,400,000 | 351 | 558 | 0.002316403 | MTTP,ENSBTAG00000046333 |
| 6 | 26,325,000 | 26,475,000 | 352 | 549 | -0.425583188 | MTTP,TRMT10A,ENSBTAG00000046333 |
| 6 | 26,400,000 | 26,550,000 | 353 | 613 | -0.335311089 | ADH7,C4orf17,MTTP,TRMT10A |
| 6 | 26,475,000 | 26,625,000 | 354 | 939 | -0.074581859 | ADH7,C4orf17 |
| 6 | 26,550,000 | 26,700,000 | 355 | 863 | 0.544349345 | ADH7,ENSBTAG00000006986,ENSBTAG00000034189,ENSBTAG00000034514 |
| 6 | 26,625,000 | 26,775,000 | 356 | 913 | 0.885867887 | ENSBTAG00000006986,ENSBTAG00000034189,ENSBTAG00000034514 |
| 6 | 26,700,000 | 26,850,000 | 357 | 1063 | 0.375025978 | ADH6,ENSBTAG00000006986 |
| 6 | 26,775,000 | 26,925,000 | 358 | 872 | 0.772766678 | ADH4,ADH5,ADH6 |
| 6 | 26,850,000 | 27,000,000 | 359 | 733 | 1.180739347 | ADH4,ADH5,METAP1 |
| 6 | 26,925,000 | 27,075,000 | 360 | 696 | 0.688175152 | EIF4E,METAP1,ENSBTAG00000024125 |
| 6 | 27,000,000 | 27,150,000 | 361 | 777 | 0.782760178 | EIF4E,ENSBTAG00000024125 |
| 6 | 27,075,000 | 27,225,000 | 362 | 878 | 0.541805597 | EIF4E |
| 6 | 27,150,000 | 27,300,000 | 363 | 1053 | 0.296651001 | |
| 6 | 27,225,000 | 27,375,000 | 364 | 1023 | 0.479071774 | TSPAN5 |
| 6 | 27,300,000 | 27,450,000 | 365 | 1149 | 0.776504645 | TSPAN5 |
| 6 | 27,375,000 | 27,525,000 | 366 | 1185 | 0.665078918 | TSPAN5 |
| 6 | 27,450,000 | 27,600,000 | 367 | 656 | 0.359367571 | RAP1GDS1,TSPAN5 |
| 6 | 27,525,000 | 27,675,000 | 368 | 437 | -0.01122334 | RAP1GDS1 |
| 6 | 27,600,000 | 27,750,000 | 369 | 543 | 0.126453072 | RAP1GDS1 |
| 6 | 27,675,000 | 27,825,000 | 370 | 852 | 0.260107457 | |
| 6 | 27,750,000 | 27,900,000 | 371 | 910 | 0.147316945 | |
| 6 | 27,825,000 | 27,975,000 | 372 | 1045 | 0.096893602 | |
| 6 | 27,900,000 | 28,050,000 | 373 | 1441 | 0.62201572 | |
| 6 | 27,975,000 | 28,125,000 | 374 | 1231 | 0.781197341 | ENSBTAG00000023000 |
| 6 | 28,050,000 | 28,200,000 | 375 | 1115 | 0.220818567 | ENSBTAG00000023000 |
| 6 | 28,125,000 | 28,275,000 | 376 | 1319 | -0.113542653 | |
| 6 | 28,200,000 | 28,350,000 | 377 | 1552 | -1.375732671 | |
| 6 | 28,275,000 | 28,425,000 | 378 | 1439 | -1.497852499 | |
| 6 | 28,350,000 | 28,500,000 | 379 | 936 | -0.612548172 | |
| 6 | 28,425,000 | 28,575,000 | 380 | 783 | -1.359455996 | |
| 6 | 28,500,000 | 28,650,000 | 381 | 904 | -0.990399115 | |
| 6 | 28,575,000 | 28,725,000 | 382 | 827 | -0.174635412 | |
| 6 | 28,650,000 | 28,800,000 | 383 | 906 | -0.162932054 | |
| 6 | 28,725,000 | 28,875,000 | 384 | 1046 | -1.335927684 | |
| 6 | 28,800,000 | 28,950,000 | 385 | 1037 | -0.295533434 | |
| 6 | 28,875,000 | 29,025,000 | 386 | 1112 | 0.909466329 | |
| 6 | 28,950,000 | 29,100,000 | 387 | 1139 | 1.18562547 | |
| 6 | 29,025,000 | 29,175,000 | 388 | 1006 | 0.800571538 | |
| 6 | 29,100,000 | 29,250,000 | 389 | 909 | 0.241011309 | |
| 6 | 29,175,000 | 29,325,000 | 390 | 954 | 0.659410369 | |
| 6 | 29,250,000 | 29,400,000 | 391 | 855 | 0.667900378 | ENSBTAG00000015464 |
| 6 | 29,325,000 | 29,475,000 | 392 | 863 | -0.155381254 | ENSBTAG00000015464 |
| 6 | 29,400,000 | 29,550,000 | 393 | 856 | 0.738892967 | |
| 6 | 29,475,000 | 29,625,000 | 394 | 922 | 1.350690974 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------|
| 6 | 29,550,000 | 29,700,000 | 395 | 933 | 0.910455123 | |
| 6 | 29,625,000 | 29,775,000 | 396 | 784 | -0.118822816 | |
| 6 | 29,700,000 | 29,850,000 | 397 | 651 | -0.103050618 | |
| 6 | 29,775,000 | 29,925,000 | 398 | 692 | -0.024361003 | |
| 6 | 29,850,000 | 30,000,000 | 399 | 805 | -0.19920348 | |
| 6 | 29,925,000 | 30,075,000 | 400 | 1106 | 0.421487597 | PDHA2 |
| 6 | 30,000,000 | 30,150,000 | 401 | 1001 | 0.489209758 | PDHA2 |
| 6 | 30,075,000 | 30,225,000 | 402 | 651 | 0.32503329 | |
| 6 | 30,150,000 | 30,300,000 | 403 | 1008 | -1.295444414 | |
| 6 | 30,225,000 | 30,375,000 | 404 | 1109 | -2.140425524 | |
| 6 | 30,300,000 | 30,450,000 | 405 | 770 | -2.184121111 | |
| 6 | 30,375,000 | 30,525,000 | 406 | 867 | -0.552478473 | |
| 6 | 30,450,000 | 30,600,000 | 407 | 1018 | 0.18391561 | UNC5C |
| 6 | 30,525,000 | 30,675,000 | 408 | 1116 | 0.085700331 | UNC5C |
| 6 | 30,600,000 | 30,750,000 | 409 | 1242 | -0.739052298 | UNC5C |
| 6 | 30,675,000 | 30,825,000 | 410 | 1274 | -0.052825551 | BMPR1B,UNC5C |
| 6 | 30,750,000 | 30,900,000 | 411 | 1068 | 0.510450764 | BMPR1B,UNC5C |
| 6 | 30,825,000 | 30,975,000 | 412 | 713 | 0.088766982 | BMPR1B |
| 6 | 30,900,000 | 31,050,000 | 413 | 649 | -0.427238141 | |
| 6 | 30,975,000 | 31,125,000 | 414 | 524 | -0.678599039 | |
| 6 | 31,050,000 | 31,200,000 | 415 | 427 | -0.12724356 | |
| 6 | 31,125,000 | 31,275,000 | 416 | 505 | 0.746913242 | |
| 6 | 31,200,000 | 31,350,000 | 417 | 530 | 0.659367236 | PDLIM5 |
| 6 | 31,275,000 | 31,425,000 | 418 | 420 | -0.019287449 | PDLIM5 |
| 6 | 31,350,000 | 31,500,000 | 419 | 487 | -0.284814209 | PDLIM5 |
| 6 | 31,425,000 | 31,575,000 | 420 | 725 | 0.678955135 | PDLIM5 |
| 6 | 31,500,000 | 31,650,000 | 421 | 667 | 0.499299832 | PDLIM5 |
| 6 | 31,575,000 | 31,725,000 | 422 | 646 | 0.324145023 | HPGDS |
| 6 | 31,650,000 | 31,800,000 | 423 | 849 | 0.693223379 | HPGDS,SMARCAD1 |
| 6 | 31,725,000 | 31,875,000 | 424 | 605 | 0.622208257 | HPGDS,SMARCAD1 |
| 6 | 31,800,000 | 31,950,000 | 425 | 382 | 0.104932836 | SMARCAD1 |
| 6 | 31,875,000 | 32,025,000 | 426 | 876 | -0.309817317 | |
| 6 | 31,950,000 | 32,100,000 | 427 | 898 | -1.15429669 | |
| 6 | 32,025,000 | 32,175,000 | 428 | 491 | -3.113647411 | ATOH1 |
| 6 | 32,100,000 | 32,250,000 | 429 | 650 | -2.598879402 | ATOH1,GRID2,ENSBTAG00000046473 |
| 6 | 32,175,000 | 32,325,000 | 430 | 637 | -3.275045358 | GRID2,ENSBTAG00000046473 |
| 6 | 32,250,000 | 32,400,000 | 431 | 612 | -1.391767376 | |
| 6 | 32,325,000 | 32,475,000 | 432 | 1139 | 1.059448707 | |
| 6 | 32,400,000 | 32,550,000 | 433 | 1504 | 1.141488395 | |
| 6 | 32,475,000 | 32,625,000 | 434 | 1520 | 1.300624413 | |
| 6 | 32,550,000 | 32,700,000 | 435 | 1568 | 0.57041666 | |
| 6 | 32,625,000 | 32,775,000 | 436 | 1605 | 0.813175116 | |
| 6 | 32,700,000 | 32,850,000 | 437 | 1472 | 1.330640799 | |
| 6 | 32,775,000 | 32,925,000 | 438 | 1189 | 0.10610801 | |
| 6 | 32,850,000 | 33,000,000 | 439 | 855 | -0.416969321 | ENSBTAG00000047255 |
| 6 | 32,925,000 | 33,075,000 | 440 | 789 | 0.562210082 | ENSBTAG00000047255 |
| 6 | 33,000,000 | 33,150,000 | 441 | 989 | 0.777831441 | |
| 6 | 33,075,000 | 33,225,000 | 442 | 1369 | 1.080968078 | |
| 6 | 33,150,000 | 33,300,000 | 443 | 1334 | 1.031376089 | ENSBTAG00000019490 |
| 6 | 33,225,000 | 33,375,000 | 444 | 982 | 0.546883118 | ENSBTAG00000019490 |
| 6 | 33,300,000 | 33,450,000 | 445 | 789 | 0.037926968 | |
| 6 | 33,375,000 | 33,525,000 | 446 | 609 | -4.158769848 | ENSBTAG00000047821 |
| 6 | 33,450,000 | 33,600,000 | 447 | 859 | -3.701062195 | ENSBTAG00000047821 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 6 | 33,525,000 | 33,675,000 | 448 | 1110 | -2.258002417 | |
| 6 | 33,600,000 | 33,750,000 | 449 | 1084 | -3.729635691 | |
| 6 | 33,675,000 | 33,825,000 | 450 | 1045 | -3.652839894 | |
| 6 | 33,750,000 | 33,900,000 | 451 | 971 | -1.542420535 | |
| 6 | 33,825,000 | 33,975,000 | 452 | 1093 | -0.014053207 | |
| 6 | 33,900,000 | 34,050,000 | 453 | 1194 | -0.647050442 | |
| 6 | 33,975,000 | 34,125,000 | 454 | 806 | -0.71042011 | |
| 6 | 34,050,000 | 34,200,000 | 455 | 663 | 0.338088162 | |
| 6 | 34,125,000 | 34,275,000 | 456 | 955 | 0.116387959 | |
| 6 | 34,200,000 | 34,350,000 | 457 | 1473 | 0.317060736 | |
| 6 | 34,275,000 | 34,425,000 | 458 | 1646 | 0.317487745 | |
| 6 | 34,350,000 | 34,500,000 | 459 | 1375 | -0.123227809 | |
| 6 | 34,425,000 | 34,575,000 | 460 | 1179 | -0.036597339 | |
| 6 | 34,500,000 | 34,650,000 | 461 | 1100 | 0.019226323 | |
| 6 | 34,575,000 | 34,725,000 | 462 | 1184 | -0.110968822 | |
| 6 | 34,650,000 | 34,800,000 | 463 | 957 | 0.295765301 | |
| 6 | 34,725,000 | 34,875,000 | 464 | 676 | 0.741239591 | |
| 6 | 34,800,000 | 34,950,000 | 465 | 657 | 0.761597388 | |
| 6 | 34,875,000 | 35,025,000 | 466 | 563 | -1.604061514 | |
| 6 | 34,950,000 | 35,100,000 | 467 | 689 | -2.948854557 | |
| 6 | 35,025,000 | 35,175,000 | 468 | 1029 | -0.442014896 | CCSER1 |
| 6 | 35,100,000 | 35,250,000 | 469 | 975 | 0.426563333 | CCSER1 |
| 6 | 35,175,000 | 35,325,000 | 470 | 630 | 0.431100129 | CCSER1 |
| 6 | 35,250,000 | 35,400,000 | 471 | 522 | 1.067136166 | CCSER1 |
| 6 | 35,325,000 | 35,475,000 | 472 | 793 | 0.057892617 | CCSER1 |
| 6 | 35,400,000 | 35,550,000 | 473 | 1088 | -0.846708247 | CCSER1 |
| 6 | 35,475,000 | 35,625,000 | 474 | 875 | -0.448281914 | CCSER1 |
| 6 | 35,550,000 | 35,700,000 | 475 | 725 | 0.632810884 | CCSER1 |
| 6 | 35,625,000 | 35,775,000 | 476 | 858 | 0.817718688 | CCSER1 |
| 6 | 35,700,000 | 35,850,000 | 477 | 1000 | 1.090204064 | CCSER1 |
| 6 | 35,775,000 | 35,925,000 | 478 | 1116 | 1.204579749 | CCSER1 |
| 6 | 35,850,000 | 36,000,000 | 479 | 966 | 0.753008979 | CCSER1 |
| 6 | 35,925,000 | 36,075,000 | 480 | 862 | 0.528021351 | CCSER1 |
| 6 | 36,000,000 | 36,150,000 | 481 | 611 | 0.388306983 | MMRN1 |
| 6 | 36,075,000 | 36,225,000 | 482 | 507 | -3.107529888 | MMRN1 |
| 6 | 36,150,000 | 36,300,000 | 483 | 721 | -2.936456936 | MMRN1,SNCA |
| 6 | 36,225,000 | 36,375,000 | 484 | 549 | -1.082070569 | SNCA |
| 6 | 36,300,000 | 36,450,000 | 485 | 388 | 0.182734888 | SNCA |
| 6 | 36,375,000 | 36,525,000 | 486 | 577 | 0.848373809 | SNCA |
| 6 | 36,450,000 | 36,600,000 | 487 | 954 | 1.005032224 | |
| 6 | 36,525,000 | 36,675,000 | 488 | 1169 | 0.913681661 | |
| 6 | 36,600,000 | 36,750,000 | 489 | 1202 | 0.405824277 | |
| 6 | 36,675,000 | 36,825,000 | 490 | 1035 | -1.33690988 | |
| 6 | 36,750,000 | 36,900,000 | 491 | 638 | -1.769353729 | |
| 6 | 36,825,000 | 36,975,000 | 492 | 697 | -0.407581599 | |
| 6 | 36,900,000 | 37,050,000 | 493 | 812 | -0.100527884 | GPRIN3 |
| 6 | 36,975,000 | 37,125,000 | 494 | 737 | 0.865687061 | GPRIN3,TIGD2 |
| 6 | 37,050,000 | 37,200,000 | 495 | 518 | 1.086566858 | TIGD2,ENSBTAG00000033346 |
| 6 | 37,125,000 | 37,275,000 | 496 | 497 | 0.022067609 | ENSBTAG00000033346 |
| 6 | 37,200,000 | 37,350,000 | 497 | 653 | 0.045909227 | |
| 6 | 37,275,000 | 37,425,000 | 498 | 577 | 0.869856646 | FAM13A |
| 6 | 37,350,000 | 37,500,000 | 499 | 463 | 0.700055655 | FAM13A,HERC3 |
| 6 | 37,425,000 | 37,575,000 | 500 | 397 | -0.120142203 | FAM13A,HERC3,NAP1L5 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 6 | 37,500,000 | 37,650,000 | 501 | 414 | -1.249332425 | HERC3,NAP1L5 |
| 6 | 37,575,000 | 37,725,000 | 502 | 374 | -2.582217879 | HERC3,HERC5,PIGY |
| 6 | 37,650,000 | 37,800,000 | 503 | 506 | -2.845648843 | HERC5,HERC6,PIGY |
| 6 | 37,725,000 | 37,875,000 | 504 | 863 | -2.005918254 | HERC5,HERC6 |
| 6 | 37,800,000 | 37,950,000 | 505 | 1094 | -0.94597603 | ABCG2,PPM1K |
| 6 | 37,875,000 | 38,025,000 | 506 | 1098 | -0.370845183 | ABCG2,PPM1K |
| 6 | 37,950,000 | 38,100,000 | 507 | 715 | -0.245458591 | ABCG2,PKD2 |
| 6 | 38,025,000 | 38,175,000 | 508 | 411 | 0.834320984 | ABCG2,PKD2,SPP1 |
| 6 | 38,100,000 | 38,250,000 | 509 | 746 | 0.772798415 | SPP1 |
| 6 | 38,175,000 | 38,325,000 | 510 | 783 | 0.283480114 | IBSP,MEPE |
| 6 | 38,250,000 | 38,400,000 | 511 | 640 | -0.032294851 | IBSP,MEPE |
| 6 | 38,325,000 | 38,475,000 | 512 | 1096 | -0.033266802 | |
| 6 | 38,400,000 | 38,550,000 | 513 | 1692 | -0.214139368 | |
| 6 | 38,475,000 | 38,625,000 | 514 | 1496 | 0.096472048 | FAM184B,LAP3,MED28 |
| 6 | 38,550,000 | 38,700,000 | 515 | 883 | 0.546463616 | FAM184B,LAP3,MED28 |
| 6 | 38,625,000 | 38,775,000 | 516 | 871 | -1.384901385 | DCAF16,FAM184B,HCAP-G |
| 6 | 38,700,000 | 38,850,000 | 517 | 817 | -2.904613665 | DCAF16,HCAP-G,LCORL |
| 6 | 38,775,000 | 38,925,000 | 518 | 541 | -2.234049781 | HCAP-G,LCORL |
| 6 | 38,850,000 | 39,000,000 | 519 | 446 | -0.57467424 | LCORL |
| 6 | 38,925,000 | 39,075,000 | 520 | 384 | 0.258456356 | LCORL |
| 6 | 39,000,000 | 39,150,000 | 521 | 358 | 0.567979066 | |
| 6 | 39,075,000 | 39,225,000 | 522 | 519 | -0.423816657 | |
| 6 | 39,150,000 | 39,300,000 | 523 | 862 | 0.124532664 | |
| 6 | 39,225,000 | 39,375,000 | 524 | 1185 | 0.982035973 | |
| 6 | 39,300,000 | 39,450,000 | 525 | 1149 | 1.182688721 | |
| 6 | 39,375,000 | 39,525,000 | 526 | 1003 | 1.085079496 | |
| 6 | 39,450,000 | 39,600,000 | 527 | 907 | 0.76244659 | |
| 6 | 39,525,000 | 39,675,000 | 528 | 872 | 0.135991294 | |
| 6 | 39,600,000 | 39,750,000 | 529 | 865 | -0.21590129 | |
| 6 | 39,675,000 | 39,825,000 | 530 | 1016 | -0.574881733 | |
| 6 | 39,750,000 | 39,900,000 | 531 | 790 | -0.58980122 | |
| 6 | 39,825,000 | 39,975,000 | 532 | 298 | -0.777406649 | |
| 6 | 39,900,000 | 40,050,000 | 533 | 454 | -0.141004289 | |
| 6 | 39,975,000 | 40,125,000 | 534 | 608 | 0.002256146 | |
| 6 | 40,050,000 | 40,200,000 | 535 | 551 | -0.022299706 | |
| 6 | 40,125,000 | 40,275,000 | 536 | 659 | -0.309120275 | |
| 6 | 40,200,000 | 40,350,000 | 537 | 995 | 0.199640206 | |
| 6 | 40,275,000 | 40,425,000 | 538 | 837 | 0.635166702 | |
| 6 | 40,350,000 | 40,500,000 | 539 | 519 | 1.094642762 | |
| 6 | 40,425,000 | 40,575,000 | 540 | 886 | 1.172856546 | |
| 6 | 40,500,000 | 40,650,000 | 541 | 1308 | 0.533573339 | |
| 6 | 40,575,000 | 40,725,000 | 542 | 1279 | 0.274665134 | |
| 6 | 40,650,000 | 40,800,000 | 543 | 972 | 0.822298496 | |
| 6 | 40,725,000 | 40,875,000 | 544 | 847 | 0.975254211 | |
| 6 | 40,800,000 | 40,950,000 | 545 | 1073 | 0.492950854 | |
| 6 | 40,875,000 | 41,025,000 | 546 | 1030 | 0.289555388 | |
| 6 | 40,950,000 | 41,100,000 | 547 | 674 | 0.521880302 | |
| 6 | 41,025,000 | 41,175,000 | 548 | 624 | 0.771601357 | |
| 6 | 41,100,000 | 41,250,000 | 549 | 869 | 0.313256123 | SLIT2 |
| 6 | 41,175,000 | 41,325,000 | 550 | 885 | 0.135394442 | SLIT2 |
| 6 | 41,250,000 | 41,400,000 | 551 | 875 | 0.795526939 | SLIT2 |
| 6 | 41,325,000 | 41,475,000 | 552 | 1164 | 0.980638474 | SLIT2 |
| 6 | 41,400,000 | 41,550,000 | 553 | 1071 | 0.50194203 | SLIT2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------|
| 6 | 41,475,000 | 41,625,000 | 554 | 713 | 0.451701636 | SLIT2 |
| 6 | 41,550,000 | 41,700,000 | 555 | 794 | 0.967889403 | PACRGL,SLIT2 |
| 6 | 41,625,000 | 41,775,000 | 556 | 1155 | 0.045356306 | KCNIP4,PACRGL,SLIT2 |
| 6 | 41,700,000 | 41,850,000 | 557 | 1367 | -0.680537703 | KCNIP4,PACRGL |
| 6 | 41,775,000 | 41,925,000 | 558 | 1550 | 0.079536159 | KCNIP4 |
| 6 | 41,850,000 | 42,000,000 | 559 | 1587 | 0.351091788 | KCNIP4 |
| 6 | 41,925,000 | 42,075,000 | 560 | 1477 | -0.178424406 | KCNIP4 |
| 6 | 42,000,000 | 42,150,000 | 561 | 1441 | 0.061330372 | KCNIP4 |
| 6 | 42,075,000 | 42,225,000 | 562 | 1358 | 0.030240639 | KCNIP4 |
| 6 | 42,150,000 | 42,300,000 | 563 | 1506 | -1.032972438 | KCNIP4 |
| 6 | 42,225,000 | 42,375,000 | 564 | 1519 | -0.039337177 | KCNIP4 |
| 6 | 42,300,000 | 42,450,000 | 565 | 1297 | 0.433946765 | KCNIP4 |
| 6 | 42,375,000 | 42,525,000 | 566 | 1375 | -1.444645235 | KCNIP4 |
| 6 | 42,450,000 | 42,600,000 | 567 | 1193 | -1.220069386 | KCNIP4 |
| 6 | 42,525,000 | 42,675,000 | 568 | 622 | -0.99498207 | KCNIP4 |
| 6 | 42,600,000 | 42,750,000 | 569 | 478 | -0.316031248 | KCNIP4 |
| 6 | 42,675,000 | 42,825,000 | 570 | 633 | 0.76721261 | KCNIP4 |
| 6 | 42,750,000 | 42,900,000 | 571 | 765 | 0.835700714 | KCNIP4 |
| 6 | 42,825,000 | 42,975,000 | 572 | 901 | 0.638911015 | KCNIP4 |
| 6 | 42,900,000 | 43,050,000 | 573 | 928 | -0.441443545 | KCNIP4 |
| 6 | 42,975,000 | 43,125,000 | 574 | 885 | -1.327714386 | KCNIP4 |
| 6 | 43,050,000 | 43,200,000 | 575 | 833 | 0.085041452 | |
| 6 | 43,125,000 | 43,275,000 | 576 | 823 | 0.252193118 | |
| 6 | 43,200,000 | 43,350,000 | 577 | 780 | 0.409205838 | |
| 6 | 43,275,000 | 43,425,000 | 578 | 1071 | 0.819986307 | |
| 6 | 43,350,000 | 43,500,000 | 579 | 1267 | 0.508338968 | GPR125 |
| 6 | 43,425,000 | 43,575,000 | 580 | 1085 | 0.542992693 | GPR125 |
| 6 | 43,500,000 | 43,650,000 | 581 | 1305 | -0.086457979 | GPR125 |
| 6 | 43,575,000 | 43,725,000 | 582 | 1241 | -1.612718643 | GBA3 |
| 6 | 43,650,000 | 43,800,000 | 583 | 863 | -1.538170064 | GBA3 |
| 6 | 43,725,000 | 43,875,000 | 584 | 876 | 0.099368716 | GBA3 |
| 6 | 43,800,000 | 43,950,000 | 585 | 966 | 0.201178115 | GBA3 |
| 6 | 43,875,000 | 44,025,000 | 586 | 852 | -0.178434748 | |
| 6 | 43,950,000 | 44,100,000 | 587 | 632 | -0.08868083 | |
| 6 | 44,025,000 | 44,175,000 | 588 | 771 | 0.327941859 | |
| 6 | 44,100,000 | 44,250,000 | 589 | 696 | 0.488748865 | |
| 6 | 44,175,000 | 44,325,000 | 590 | 569 | 0.224347266 | |
| 6 | 44,250,000 | 44,400,000 | 591 | 850 | -0.412384609 | |
| 6 | 44,325,000 | 44,475,000 | 592 | 946 | -0.123287627 | |
| 6 | 44,400,000 | 44,550,000 | 593 | 838 | 0.685604595 | |
| 6 | 44,475,000 | 44,625,000 | 594 | 862 | 1.148324812 | |
| 6 | 44,550,000 | 44,700,000 | 595 | 1018 | 1.183479147 | ENSBTAG00000033327 |
| 6 | 44,625,000 | 44,775,000 | 596 | 844 | 1.028127128 | ENSBTAG00000033327 |
| 6 | 44,700,000 | 44,850,000 | 597 | 811 | 0.723286601 | |
| 6 | 44,775,000 | 44,925,000 | 598 | 813 | 0.624800868 | PPARGC1A |
| 6 | 44,850,000 | 45,000,000 | 599 | 728 | 0.389830006 | PPARGC1A |
| 6 | 44,925,000 | 45,075,000 | 600 | 681 | -0.032191423 | PPARGC1A |
| 6 | 45,000,000 | 45,150,000 | 601 | 567 | 0.211423765 | |
| 6 | 45,075,000 | 45,225,000 | 602 | 541 | 1.10253734 | |
| 6 | 45,150,000 | 45,300,000 | 603 | 475 | 1.175232582 | |
| 6 | 45,225,000 | 45,375,000 | 604 | 553 | -0.393740505 | |
| 6 | 45,300,000 | 45,450,000 | 605 | 628 | -0.368509818 | |
| 6 | 45,375,000 | 45,525,000 | 606 | 849 | 0.369454369 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 6 | 45,450,000 | 45,600,000 | 607 | 1020 | 0.198188915 | |
| 6 | 45,525,000 | 45,675,000 | 608 | 935 | 0.705209018 | DHX15 |
| 6 | 45,600,000 | 45,750,000 | 609 | 931 | 1.013356242 | DHX15 |
| 6 | 45,675,000 | 45,825,000 | 610 | 895 | 0.814043576 | DHX15 |
| 6 | 45,750,000 | 45,900,000 | 611 | 1144 | 0.589191235 | |
| 6 | 45,825,000 | 45,975,000 | 612 | 1434 | 0.321944941 | CCDC149,ECSOD |
| 6 | 45,900,000 | 46,050,000 | 613 | 1339 | 0.38759718 | CCDC149,ECSOD |
| 6 | 45,975,000 | 46,125,000 | 614 | 966 | 0.580131064 | CCDC149 |
| 6 | 46,050,000 | 46,200,000 | 615 | 564 | 0.389935821 | CCDC149,LGI2 |
| 6 | 46,125,000 | 46,275,000 | 616 | 440 | 0.561355282 | LGI2,SEPSECS |
| 6 | 46,200,000 | 46,350,000 | 617 | 400 | 0.702564769 | SEPSECS |
| 6 | 46,275,000 | 46,425,000 | 618 | 345 | 1.089988522 | PI4K2B,SEPSECS,ZCCHC4 |
| 6 | 46,350,000 | 46,500,000 | 619 | 557 | -0.865551656 | ANAPC4,PI4K2B,ZCCHC4 |
| 6 | 46,425,000 | 46,575,000 | 620 | 767 | -1.283456105 | ANAPC4,ZCCHC4 |
| 6 | 46,500,000 | 46,650,000 | 621 | 802 | -0.12850906 | ANAPC4 |
| 6 | 46,575,000 | 46,725,000 | 622 | 775 | 0.485850457 | SLC34A2 |
| 6 | 46,650,000 | 46,800,000 | 623 | 895 | 1.056836446 | SEL1L3,SLC34A2 |
| 6 | 46,725,000 | 46,875,000 | 624 | 1005 | 0.486887392 | SEL1L3,SLC34A2 |
| 6 | 46,800,000 | 46,950,000 | 625 | 1097 | -1.057965842 | SEL1L3 |
| 6 | 46,875,000 | 47,025,000 | 626 | 1073 | -1.463683969 | SEL1L3,SMIM20 |
| 6 | 46,950,000 | 47,100,000 | 627 | 774 | -1.435924084 | SMIM20 |
| 6 | 47,025,000 | 47,175,000 | 628 | 525 | -0.277291073 | |
| 6 | 47,100,000 | 47,250,000 | 629 | 401 | 1.334944214 | |
| 6 | 47,175,000 | 47,325,000 | 630 | 334 | 1.284159796 | RBPJ |
| 6 | 47,250,000 | 47,400,000 | 631 | 226 | 0.585284635 | RBPJ |
| 6 | 47,325,000 | 47,475,000 | 632 | 283 | 0.667679877 | CCKAR,RBPJ |
| 6 | 47,400,000 | 47,550,000 | 633 | 548 | -0.223038762 | CCKAR,RBPJ |
| 6 | 47,475,000 | 47,625,000 | 634 | 601 | -0.007800812 | CCKAR,TBC1D19 |
| 6 | 47,550,000 | 47,700,000 | 635 | 664 | 0.7174688 | TBC1D19 |
| 6 | 47,625,000 | 47,775,000 | 636 | 787 | 0.826078384 | TBC1D19 |
| 6 | 47,700,000 | 47,850,000 | 637 | 547 | 0.974523873 | TBC1D19 |
| 6 | 47,775,000 | 47,925,000 | 638 | 631 | 1.047358773 | |
| 6 | 47,850,000 | 48,000,000 | 639 | 576 | 1.122630015 | STIM2 |
| 6 | 47,925,000 | 48,075,000 | 640 | 477 | 0.600188405 | STIM2 |
| 6 | 48,000,000 | 48,150,000 | 641 | 743 | 0.649423631 | STIM2 |
| 6 | 48,075,000 | 48,225,000 | 642 | 861 | 0.750329935 | |
| 6 | 48,150,000 | 48,300,000 | 643 | 1216 | 1.162261853 | |
| 6 | 48,225,000 | 48,375,000 | 644 | 1316 | 1.340633403 | |
| 6 | 48,300,000 | 48,450,000 | 645 | 1194 | 0.955310497 | |
| 6 | 48,375,000 | 48,525,000 | 646 | 1281 | -0.45381262 | ENSBTAG00000045570 |
| 6 | 48,450,000 | 48,600,000 | 647 | 1328 | -0.515944752 | ENSBTAG00000045570 |
| 6 | 48,525,000 | 48,675,000 | 648 | 1292 | -0.288336559 | |
| 6 | 48,600,000 | 48,750,000 | 649 | 1293 | -0.897401143 | |
| 6 | 48,675,000 | 48,825,000 | 650 | 1414 | -0.680517379 | |
| 6 | 48,750,000 | 48,900,000 | 651 | 1274 | -0.626497844 | |
| 6 | 48,825,000 | 48,975,000 | 652 | 970 | -0.359452528 | |
| 6 | 48,900,000 | 49,050,000 | 653 | 1100 | 0.324673451 | |
| 6 | 48,975,000 | 49,125,000 | 654 | 1403 | 0.592827589 | |
| 6 | 49,050,000 | 49,200,000 | 655 | 1498 | 0.88706965 | |
| 6 | 49,125,000 | 49,275,000 | 656 | 1447 | 0.899421686 | |
| 6 | 49,200,000 | 49,350,000 | 657 | 1522 | 0.244167802 | |
| 6 | 49,275,000 | 49,425,000 | 658 | 1455 | 0.338260342 | |
| 6 | 49,350,000 | 49,500,000 | 659 | 1224 | 0.753968793 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------|
| 6 | 49,425,000 | 49,575,000 | 660 | 990 | 0.055310041 | |
| 6 | 49,500,000 | 49,650,000 | 661 | 942 | -0.854242979 | |
| 6 | 49,575,000 | 49,725,000 | 662 | 969 | -1.481967996 | |
| 6 | 49,650,000 | 49,800,000 | 663 | 974 | -1.227882256 | |
| 6 | 49,725,000 | 49,875,000 | 664 | 1277 | -1.053485638 | |
| 6 | 49,800,000 | 49,950,000 | 665 | 1234 | -0.746999812 | |
| 6 | 49,875,000 | 50,025,000 | 666 | 901 | 0.483563636 | |
| 6 | 49,950,000 | 50,100,000 | 667 | 661 | 0.504509141 | |
| 6 | 50,025,000 | 50,175,000 | 668 | 706 | 0.196058493 | |
| 6 | 50,100,000 | 50,250,000 | 669 | 768 | 0.076485941 | |
| 6 | 50,175,000 | 50,325,000 | 670 | 985 | 0.528903602 | |
| 6 | 50,250,000 | 50,400,000 | 671 | 1339 | 0.569596714 | |
| 6 | 50,325,000 | 50,475,000 | 672 | 1116 | 0.215340252 | |
| 6 | 50,400,000 | 50,550,000 | 673 | 932 | -0.481196814 | |
| 6 | 50,475,000 | 50,625,000 | 674 | 966 | 0.075574827 | |
| 6 | 50,550,000 | 50,700,000 | 675 | 928 | -0.333990528 | |
| 6 | 50,625,000 | 50,775,000 | 676 | 1052 | -0.348906318 | |
| 6 | 50,700,000 | 50,850,000 | 677 | 954 | 0.188329944 | |
| 6 | 50,775,000 | 50,925,000 | 678 | 1157 | -0.171830835 | |
| 6 | 50,850,000 | 51,000,000 | 679 | 1761 | -0.732289848 | |
| 6 | 50,925,000 | 51,075,000 | 680 | 1755 | -1.12362785 | |
| 6 | 51,000,000 | 51,150,000 | 681 | 1485 | -0.350968645 | |
| 6 | 51,075,000 | 51,225,000 | 682 | 1194 | 0.54963033 | |
| 6 | 51,150,000 | 51,300,000 | 683 | 1221 | 0.781556804 | |
| 6 | 51,225,000 | 51,375,000 | 684 | 1351 | 0.361144669 | |
| 6 | 51,300,000 | 51,450,000 | 685 | 1228 | -0.244734014 | |
| 6 | 51,375,000 | 51,525,000 | 686 | 949 | -0.157849246 | |
| 6 | 51,450,000 | 51,600,000 | 687 | 651 | -0.032241954 | PCDH7 |
| 6 | 51,525,000 | 51,675,000 | 688 | 763 | -0.2273262 | PCDH7 |
| 6 | 51,600,000 | 51,750,000 | 689 | 864 | -0.498801283 | PCDH7 |
| 6 | 51,675,000 | 51,825,000 | 690 | 753 | -0.252690433 | PCDH7 |
| 6 | 51,750,000 | 51,900,000 | 691 | 738 | -0.282925564 | PCDH7 |
| 6 | 51,825,000 | 51,975,000 | 692 | 872 | -0.543879395 | PCDH7 |
| 6 | 51,900,000 | 52,050,000 | 693 | 898 | -0.506405373 | PCDH7 |
| 6 | 51,975,000 | 52,125,000 | 694 | 839 | -1.063570396 | PCDH7 |
| 6 | 52,050,000 | 52,200,000 | 695 | 885 | -1.211440575 | |
| 6 | 52,125,000 | 52,275,000 | 696 | 803 | -0.473618923 | |
| 6 | 52,200,000 | 52,350,000 | 697 | 753 | -0.581530572 | |
| 6 | 52,275,000 | 52,425,000 | 698 | 797 | -0.840222913 | |
| 6 | 52,350,000 | 52,500,000 | 699 | 805 | -0.166564336 | |
| 6 | 52,425,000 | 52,575,000 | 700 | 724 | -0.420429681 | |
| 6 | 52,500,000 | 52,650,000 | 701 | 504 | -0.719464547 | |
| 6 | 52,575,000 | 52,725,000 | 702 | 520 | 1.075512857 | |
| 6 | 52,650,000 | 52,800,000 | 703 | 605 | 0.307757732 | |
| 6 | 52,725,000 | 52,875,000 | 704 | 673 | -0.337486977 | |
| 6 | 52,800,000 | 52,950,000 | 705 | 919 | -2.177653907 | |
| 6 | 52,875,000 | 53,025,000 | 706 | 875 | -2.750387629 | |
| 6 | 52,950,000 | 53,100,000 | 707 | 709 | -0.874425757 | |
| 6 | 53,025,000 | 53,175,000 | 708 | 1369 | 0.352549736 | |
| 6 | 53,100,000 | 53,250,000 | 709 | 1434 | 0.542682085 | |
| 6 | 53,175,000 | 53,325,000 | 710 | 860 | -0.434411228 | |
| 6 | 53,250,000 | 53,400,000 | 711 | 1136 | -0.139236954 | |
| 6 | 53,325,000 | 53,475,000 | 712 | 1022 | -0.163736527 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------|
| 6 | 53,400,000 | 53,550,000 | 713 | 798 | -0.996261608 | |
| 6 | 53,475,000 | 53,625,000 | 714 | 784 | -0.223502356 | |
| 6 | 53,550,000 | 53,700,000 | 715 | 686 | -0.211695711 | |
| 6 | 53,625,000 | 53,775,000 | 716 | 609 | -0.600457808 | |
| 6 | 53,700,000 | 53,850,000 | 717 | 848 | -0.239984566 | |
| 6 | 53,775,000 | 53,925,000 | 718 | 1254 | -0.954895102 | |
| 6 | 53,850,000 | 54,000,000 | 719 | 1479 | -1.87104506 | |
| 6 | 53,925,000 | 54,075,000 | 720 | 1328 | -3.165470076 | |
| 6 | 54,000,000 | 54,150,000 | 721 | 938 | -2.653536751 | |
| 6 | 54,075,000 | 54,225,000 | 722 | 1465 | 0.375044517 | |
| 6 | 54,150,000 | 54,300,000 | 723 | 1997 | -0.252185982 | |
| 6 | 54,225,000 | 54,375,000 | 724 | 1548 | -0.79374333 | |
| 6 | 54,300,000 | 54,450,000 | 725 | 1293 | 0.563617832 | |
| 6 | 54,375,000 | 54,525,000 | 726 | 1589 | -0.0734583 | |
| 6 | 54,450,000 | 54,600,000 | 727 | 1823 | -0.42575124 | |
| 6 | 54,525,000 | 54,675,000 | 728 | 1655 | -0.632050747 | |
| 6 | 54,600,000 | 54,750,000 | 729 | 1439 | -0.244403331 | |
| 6 | 54,675,000 | 54,825,000 | 730 | 1629 | 0.461899441 | |
| 6 | 54,750,000 | 54,900,000 | 731 | 1632 | 0.581055021 | |
| 6 | 54,825,000 | 54,975,000 | 732 | 1913 | 1.036658507 | |
| 6 | 54,900,000 | 55,050,000 | 733 | 1930 | 1.003102137 | |
| 6 | 54,975,000 | 55,125,000 | 734 | 1671 | -0.054668803 | |
| 6 | 55,050,000 | 55,200,000 | 735 | 1614 | 0.164998973 | |
| 6 | 55,125,000 | 55,275,000 | 736 | 1633 | 0.418060949 | |
| 6 | 55,200,000 | 55,350,000 | 737 | 1564 | -0.422603087 | |
| 6 | 55,275,000 | 55,425,000 | 738 | 1494 | -0.885763621 | |
| 6 | 55,350,000 | 55,500,000 | 739 | 1611 | -0.119313997 | |
| 6 | 55,425,000 | 55,575,000 | 740 | 1592 | 0.828792359 | |
| 6 | 55,500,000 | 55,650,000 | 741 | 1534 | 0.881511519 | |
| 6 | 55,575,000 | 55,725,000 | 742 | 1478 | 0.909044713 | |
| 6 | 55,650,000 | 55,800,000 | 743 | 1510 | 1.114813529 | |
| 6 | 55,725,000 | 55,875,000 | 744 | 1537 | 1.138663414 | |
| 6 | 55,800,000 | 55,950,000 | 745 | 1641 | 1.193288825 | |
| 6 | 55,875,000 | 56,025,000 | 746 | 1792 | 1.283899088 | |
| 6 | 55,950,000 | 56,100,000 | 747 | 2053 | 1.264550957 | |
| 6 | 56,025,000 | 56,175,000 | 748 | 2198 | 1.182840776 | |
| 6 | 56,100,000 | 56,250,000 | 749 | 1931 | -0.153485854 | |
| 6 | 56,175,000 | 56,325,000 | 750 | 1669 | -1.228382753 | |
| 6 | 56,250,000 | 56,400,000 | 751 | 1866 | 0.318377032 | |
| 6 | 56,325,000 | 56,475,000 | 752 | 1986 | 0.338739701 | |
| 6 | 56,400,000 | 56,550,000 | 753 | 2025 | 0.07128709 | |
| 6 | 56,475,000 | 56,625,000 | 754 | 1930 | -0.08302667 | |
| 6 | 56,550,000 | 56,700,000 | 755 | 1465 | -0.509868804 | |
| 6 | 56,625,000 | 56,775,000 | 756 | 1340 | -1.17797437 | |
| 6 | 56,700,000 | 56,850,000 | 757 | 1041 | -1.703195458 | |
| 6 | 56,775,000 | 56,925,000 | 758 | 1131 | -0.068689512 | |
| 6 | 56,850,000 | 57,000,000 | 759 | 1657 | 0.40906418 | |
| 6 | 56,925,000 | 57,075,000 | 760 | 1294 | 0.278987604 | ARAP2 |
| 6 | 57,000,000 | 57,150,000 | 761 | 1005 | 0.553817213 | ARAP2 |
| 6 | 57,075,000 | 57,225,000 | 762 | 1025 | 0.453978431 | ARAP2 |
| 6 | 57,150,000 | 57,300,000 | 763 | 773 | -0.109676486 | ARAP2 |
| 6 | 57,225,000 | 57,375,000 | 764 | 811 | -1.497466898 | ARAP2,DTHD1 |
| 6 | 57,300,000 | 57,450,000 | 765 | 737 | -0.996859171 | DTHD1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------|
| 6 | 57,375,000 | 57,525,000 | 766 | 483 | 1.147051263 | DTHD1 |
| 6 | 57,450,000 | 57,600,000 | 767 | 648 | -0.399860424 | |
| 6 | 57,525,000 | 57,675,000 | 768 | 779 | -0.086520795 | |
| 6 | 57,600,000 | 57,750,000 | 769 | 505 | 0.462501159 | |
| 6 | 57,675,000 | 57,825,000 | 770 | 528 | 0.776742555 | |
| 6 | 57,750,000 | 57,900,000 | 771 | 829 | -0.486513974 | |
| 6 | 57,825,000 | 57,975,000 | 772 | 931 | -0.604351634 | |
| 6 | 57,900,000 | 58,050,000 | 773 | 910 | -0.797802303 | |
| 6 | 57,975,000 | 58,125,000 | 774 | 964 | -1.299466352 | ENSBTAG00000039222 |
| 6 | 58,050,000 | 58,200,000 | 775 | 1221 | -0.045628497 | ENSBTAG00000039222 |
| 6 | 58,125,000 | 58,275,000 | 776 | 1166 | 0.514026542 | |
| 6 | 58,200,000 | 58,350,000 | 777 | 1058 | 0.888422956 | |
| 6 | 58,275,000 | 58,425,000 | 778 | 880 | 0.491665628 | |
| 6 | 58,350,000 | 58,500,000 | 779 | 563 | -0.39798257 | C4orf19,NWD2 |
| 6 | 58,425,000 | 58,575,000 | 780 | 529 | 0.453447149 | C4orf19,NWD2 |
| 6 | 58,500,000 | 58,650,000 | 781 | 613 | 0.024328484 | C4orf19,RELL1 |
| 6 | 58,575,000 | 58,725,000 | 782 | 611 | 0.034232187 | RELL1 |
| 6 | 58,650,000 | 58,800,000 | 783 | 656 | 0.54065885 | PGM2,RELL1 |
| 6 | 58,725,000 | 58,875,000 | 784 | 716 | 0.89572186 | PGM2,TBC1D1 |
| 6 | 58,800,000 | 58,950,000 | 785 | 589 | -0.42376008 | PGM2,TBC1D1 |
| 6 | 58,875,000 | 59,025,000 | 786 | 482 | -1.423488192 | TBC1D1 |
| 6 | 58,950,000 | 59,100,000 | 787 | 370 | -0.066912847 | TBC1D1 |
| 6 | 59,025,000 | 59,175,000 | 788 | 259 | -0.266438523 | TBC1D1 |
| 6 | 59,100,000 | 59,250,000 | 789 | 303 | 0.600512239 | |
| 6 | 59,175,000 | 59,325,000 | 790 | 323 | 0.556932274 | |
| 6 | 59,250,000 | 59,400,000 | 791 | 313 | 0.479712355 | |
| 6 | 59,325,000 | 59,475,000 | 792 | 394 | 0.495984836 | |
| 6 | 59,400,000 | 59,550,000 | 793 | 416 | 0.664385232 | |
| 6 | 59,475,000 | 59,625,000 | 794 | 545 | -0.098852943 | KLF3 |
| 6 | 59,550,000 | 59,700,000 | 795 | 793 | -0.011133701 | KLF3,TLR10,TLR6 |
| 6 | 59,625,000 | 59,775,000 | 796 | 976 | 0.176339103 | FAM114A1,TLR10,TLR6 |
| 6 | 59,700,000 | 59,850,000 | 797 | 777 | 0.326285908 | FAM114A1,TLR6,TMEM156 |
| 6 | 59,775,000 | 59,925,000 | 798 | 424 | 0.231886842 | FAM114A1,KLHL5,TMEM156 |
| 6 | 59,850,000 | 60,000,000 | 799 | 693 | 0.602182145 | KLHL5,TMEM156,WDR19 |
| 6 | 59,925,000 | 60,075,000 | 800 | 897 | 0.783512494 | KLHL5,RFC1,WDR19 |
| 6 | 60,000,000 | 60,150,000 | 801 | 577 | 0.033881119 | RFC1,WDR19 |
| 6 | 60,075,000 | 60,225,000 | 802 | 423 | -0.575985353 | KLB,LIAS,RFC1,RPL9 |
| 6 | 60,150,000 | 60,300,000 | 803 | 613 | 0.008906024 | KLB,LIAS,RPL9,SMIM14,UGDH |
| 6 | 60,225,000 | 60,375,000 | 804 | 660 | 0.506253599 | LIAS,SMIM14,UGDH |
| 6 | 60,300,000 | 60,450,000 | 805 | 446 | 0.792231317 | SMIM14,UBE2K |
| 6 | 60,375,000 | 60,525,000 | 806 | 352 | -0.060285436 | UBE2K |
| 6 | 60,450,000 | 60,600,000 | 807 | 314 | 0.296474673 | PDS5A,UBE2K |
| 6 | 60,525,000 | 60,675,000 | 808 | 266 | 0.670953986 | PDS5A |
| 6 | 60,600,000 | 60,750,000 | 809 | 425 | 0.668946842 | PDS5A |
| 6 | 60,675,000 | 60,825,000 | 810 | 571 | 0.503474496 | N4BP2 |
| 6 | 60,750,000 | 60,900,000 | 811 | 622 | -0.282686796 | N4BP2,RHOH |
| 6 | 60,825,000 | 60,975,000 | 812 | 595 | 0.228823994 | CHRNA9,RHOH |
| 6 | 60,900,000 | 61,050,000 | 813 | 554 | 0.276229471 | CHRNA9,DKFZP686F02235 |
| 6 | 60,975,000 | 61,125,000 | 814 | 482 | -0.496224875 | CHRNA9,DKFZP686F02235 |
| 6 | 61,050,000 | 61,200,000 | 815 | 501 | 0.792818263 | DKFZP686F02235 |
| 6 | 61,125,000 | 61,275,000 | 816 | 664 | 0.726485054 | |
| 6 | 61,200,000 | 61,350,000 | 817 | 610 | 0.453173751 | NSUN7 |
| 6 | 61,275,000 | 61,425,000 | 818 | 697 | -0.082012099 | APBB2,NSUN7 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 6 | 61,350,000 | 61,500,000 | 819 | 926 | -0.327541435 | APBB2,NSUN7 |
| 6 | 61,425,000 | 61,575,000 | 820 | 1068 | 0.728204452 | APBB2 |
| 6 | 61,500,000 | 61,650,000 | 821 | 741 | 1.281948033 | APBB2 |
| 6 | 61,575,000 | 61,725,000 | 822 | 284 | 0.916029403 | APBB2 |
| 6 | 61,650,000 | 61,800,000 | 823 | 359 | 0.691443183 | APBB2,UCHL1 |
| 6 | 61,725,000 | 61,875,000 | 824 | 788 | 0.347947159 | APBB2,LIMCH1,UCHL1 |
| 6 | 61,800,000 | 61,950,000 | 825 | 851 | 0.42533434 | LIMCH1,UCHL1 |
| 6 | 61,875,000 | 62,025,000 | 826 | 506 | 0.78009785 | LIMCH1 |
| 6 | 61,950,000 | 62,100,000 | 827 | 442 | 0.214011868 | LIMCH1 |
| 6 | 62,025,000 | 62,175,000 | 828 | 517 | -1.580125222 | LIMCH1 |
| 6 | 62,100,000 | 62,250,000 | 829 | 785 | -0.070784142 | LIMCH1 |
| 6 | 62,175,000 | 62,325,000 | 830 | 828 | 0.843034685 | LIMCH1,PHOX2B |
| 6 | 62,250,000 | 62,400,000 | 831 | 667 | -0.694035408 | PHOX2B |
| 6 | 62,325,000 | 62,475,000 | 832 | 885 | -2.122709642 | TMEM33 |
| 6 | 62,400,000 | 62,550,000 | 833 | 747 | -1.669345855 | SLC30A9,TMEM33 |
| 6 | 62,475,000 | 62,625,000 | 834 | 613 | -1.750214355 | SLC30A9,TMEM33 |
| 6 | 62,550,000 | 62,700,000 | 835 | 813 | -1.46256109 | BEND4,SLC30A9 |
| 6 | 62,625,000 | 62,775,000 | 836 | 929 | -0.08692892 | BEND4 |
| 6 | 62,700,000 | 62,850,000 | 837 | 928 | -0.366938498 | |
| 6 | 62,775,000 | 62,925,000 | 838 | 641 | -0.445780531 | ATP8A1,SHISA3 |
| 6 | 62,850,000 | 63,000,000 | 839 | 429 | 0.352747631 | ATP8A1,SHISA3 |
| 6 | 62,925,000 | 63,075,000 | 840 | 876 | 1.238613146 | ATP8A1 |
| 6 | 63,000,000 | 63,150,000 | 841 | 904 | 1.310370184 | ATP8A1 |
| 6 | 63,075,000 | 63,225,000 | 842 | 587 | 0.762146243 | ATP8A1 |
| 6 | 63,150,000 | 63,300,000 | 843 | 776 | 0.136120861 | |
| 6 | 63,225,000 | 63,375,000 | 844 | 619 | -0.703891963 | GRXCR1 |
| 6 | 63,300,000 | 63,450,000 | 845 | 714 | -1.726668555 | GRXCR1 |
| 6 | 63,375,000 | 63,525,000 | 846 | 1179 | 0.006654353 | GRXCR1 |
| 6 | 63,450,000 | 63,600,000 | 847 | 1106 | 0.871096474 | GRXCR1 |
| 6 | 63,525,000 | 63,675,000 | 848 | 921 | 0.164114902 | |
| 6 | 63,600,000 | 63,750,000 | 849 | 612 | -0.200440784 | |
| 6 | 63,675,000 | 63,825,000 | 850 | 338 | 0.344410629 | |
| 6 | 63,750,000 | 63,900,000 | 851 | 461 | 0.447620685 | |
| 6 | 63,825,000 | 63,975,000 | 852 | 743 | 1.224472408 | |
| 6 | 63,900,000 | 64,050,000 | 853 | 826 | 1.207598319 | |
| 6 | 63,975,000 | 64,125,000 | 854 | 942 | 0.29873811 | |
| 6 | 64,050,000 | 64,200,000 | 855 | 904 | 0.248175539 | |
| 6 | 64,125,000 | 64,275,000 | 856 | 783 | 0.821218547 | |
| 6 | 64,200,000 | 64,350,000 | 857 | 1026 | 1.329802659 | |
| 6 | 64,275,000 | 64,425,000 | 858 | 724 | 1.473192802 | |
| 6 | 64,350,000 | 64,500,000 | 859 | 556 | -0.58722045 | |
| 6 | 64,425,000 | 64,575,000 | 860 | 930 | -1.026740456 | |
| 6 | 64,500,000 | 64,650,000 | 861 | 1257 | 0.561815197 | |
| 6 | 64,575,000 | 64,725,000 | 862 | 1335 | 1.055400875 | |
| 6 | 64,650,000 | 64,800,000 | 863 | 1304 | 0.438918054 | KCTD8 |
| 6 | 64,725,000 | 64,875,000 | 864 | 1141 | 0.387228939 | KCTD8 |
| 6 | 64,800,000 | 64,950,000 | 865 | 908 | 0.320689589 | GUF1,YIPF7 |
| 6 | 64,875,000 | 65,025,000 | 866 | 621 | 0.244883672 | GNPDA2,GUF1,YIPF7 |
| 6 | 64,950,000 | 65,100,000 | 867 | 775 | 0.745093177 | GNPDA2,GUF1 |
| 6 | 65,025,000 | 65,175,000 | 868 | 1245 | -0.225454529 | |
| 6 | 65,100,000 | 65,250,000 | 869 | 1363 | 0.150319077 | |
| 6 | 65,175,000 | 65,325,000 | 870 | 1272 | 0.78447557 | |
| 6 | 65,250,000 | 65,400,000 | 871 | 1195 | 0.243163654 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 6 | 65,325,000 | 65,475,000 | 872 | 1076 | 0.079180076 | |
| 6 | 65,400,000 | 65,550,000 | 873 | 1226 | 0.983298196 | |
| 6 | 65,475,000 | 65,625,000 | 874 | 1575 | 0.990730974 | |
| 6 | 65,550,000 | 65,700,000 | 875 | 1579 | 0.895465715 | |
| 6 | 65,625,000 | 65,775,000 | 876 | 1722 | 0.912662024 | |
| 6 | 65,700,000 | 65,850,000 | 877 | 1639 | 0.244349317 | |
| 6 | 65,775,000 | 65,925,000 | 878 | 1574 | -0.423529958 | |
| 6 | 65,850,000 | 66,000,000 | 879 | 1499 | -0.106370508 | |
| 6 | 65,925,000 | 66,075,000 | 880 | 1341 | 0.002041977 | |
| 6 | 66,000,000 | 66,150,000 | 881 | 1360 | 0.185135613 | |
| 6 | 66,075,000 | 66,225,000 | 882 | 1304 | 0.812588081 | |
| 6 | 66,150,000 | 66,300,000 | 883 | 1420 | 1.102173164 | GABRG1 |
| 6 | 66,225,000 | 66,375,000 | 884 | 1573 | 0.930391235 | GABRG1 |
| 6 | 66,300,000 | 66,450,000 | 885 | 1719 | 0.730259304 | GABRG1 |
| 6 | 66,375,000 | 66,525,000 | 886 | 1549 | 0.555118342 | GABRA2 |
| 6 | 66,450,000 | 66,600,000 | 887 | 1463 | 0.560432853 | GABRA2 |
| 6 | 66,525,000 | 66,675,000 | 888 | 1362 | 1.058971827 | GABRA2 |
| 6 | 66,600,000 | 66,750,000 | 889 | 912 | 1.211793154 | GABRA2 |
| 6 | 66,675,000 | 66,825,000 | 890 | 1034 | 0.050813784 | |
| 6 | 66,750,000 | 66,900,000 | 891 | 1194 | -0.738297166 | |
| 6 | 66,825,000 | 66,975,000 | 892 | 998 | -0.555625087 | |
| 6 | 66,900,000 | 67,050,000 | 893 | 852 | 1.078458335 | |
| 6 | 66,975,000 | 67,125,000 | 894 | 711 | 0.998941164 | HIST1H4G |
| 6 | 67,050,000 | 67,200,000 | 895 | 690 | 0.488343548 | GABRA4,HIST1H4G |
| 6 | 67,125,000 | 67,275,000 | 896 | 639 | 0.574610659 | GABRA4,GABRB1 |
| 6 | 67,200,000 | 67,350,000 | 897 | 667 | 1.095940634 | GABRA4,GABRB1 |
| 6 | 67,275,000 | 67,425,000 | 898 | 584 | 1.253166726 | GABRB1 |
| 6 | 67,350,000 | 67,500,000 | 899 | 359 | 0.835860576 | GABRB1 |
| 6 | 67,425,000 | 67,575,000 | 900 | 550 | 0.729289224 | GABRB1 |
| 6 | 67,500,000 | 67,650,000 | 901 | 522 | 0.786531672 | GABRB1 |
| 6 | 67,575,000 | 67,725,000 | 902 | 384 | 0.434093608 | GABRB1 |
| 6 | 67,650,000 | 67,800,000 | 903 | 623 | -0.724018028 | ATP10D,COMMD8,GABRB1 |
| 6 | 67,725,000 | 67,875,000 | 904 | 695 | -3.714881236 | ATP10D,COMMD8 |
| 6 | 67,800,000 | 67,950,000 | 905 | 505 | -3.123496188 | ATP10D,CORIN |
| 6 | 67,875,000 | 68,025,000 | 906 | 427 | -0.993375689 | ATP10D,CORIN |
| 6 | 67,950,000 | 68,100,000 | 907 | 344 | -0.783731202 | CORIN |
| 6 | 68,025,000 | 68,175,000 | 908 | 364 | 1.066221156 | CORIN |
| 6 | 68,100,000 | 68,250,000 | 909 | 541 | 0.747557872 | CORIN,NFXL1 |
| 6 | 68,175,000 | 68,325,000 | 910 | 484 | 0.605740675 | CNGA1,CORIN,NFXL1 |
| 6 | 68,250,000 | 68,400,000 | 911 | 630 | 1.183959061 | CNGA1,NFXL1,NIPAL1 |
| 6 | 68,325,000 | 68,475,000 | 912 | 741 | 0.349729662 | CNGA1,NIPAL1,TEC,TXK |
| 6 | 68,400,000 | 68,550,000 | 913 | 767 | -0.098694056 | TEC,TXK |
| 6 | 68,475,000 | 68,625,000 | 914 | 1063 | 0.648497673 | TEC |
| 6 | 68,550,000 | 68,700,000 | 915 | 1106 | -0.577491442 | SLAIN2 |
| 6 | 68,625,000 | 68,775,000 | 916 | 687 | -3.282669972 | SLAIN2 |
| 6 | 68,700,000 | 68,850,000 | 917 | 347 | -2.800301758 | FRYL,SLAIN2,SLC10A4,ZAR1 |
| 6 | 68,775,000 | 68,925,000 | 918 | 308 | -1.68423385 | FRYL,SLC10A4,ZAR1 |
| 6 | 68,850,000 | 69,000,000 | 919 | 300 | -0.698364087 | FRYL |
| 6 | 68,925,000 | 69,075,000 | 920 | 482 | 1.095885897 | FRYL |
| 6 | 69,000,000 | 69,150,000 | 921 | 565 | 1.187463011 | OCIAD1 |
| 6 | 69,075,000 | 69,225,000 | 922 | 590 | 0.885460538 | OCIAD1,OCIAD2 |
| 6 | 69,150,000 | 69,300,000 | 923 | 927 | 0.463406905 | CWH43,OCIAD1,OCIAD2 |
| 6 | 69,225,000 | 69,375,000 | 924 | 856 | 0.151484778 | CWH43,DCUN1D4 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 6 | 69,300,000 | 69,450,000 | 925 | 537 | -0.343224487 | CWH43,DCUN1D4 |
| 6 | 69,375,000 | 69,525,000 | 926 | 644 | -0.121902588 | DCUN1D4,LRRC66 |
| 6 | 69,450,000 | 69,600,000 | 927 | 602 | 0.169408649 | LRRC66,SGCB,SPATA18 |
| 6 | 69,525,000 | 69,675,000 | 928 | 506 | -0.283658956 | SGCB,SPATA18 |
| 6 | 69,600,000 | 69,750,000 | 929 | 456 | -0.110754509 | SPATA18 |
| 6 | 69,675,000 | 69,825,000 | 930 | 590 | 0.825174778 | |
| 6 | 69,750,000 | 69,900,000 | 931 | 1141 | 0.802703271 | |
| 6 | 69,825,000 | 69,975,000 | 932 | 939 | 0.894059037 | USP46 |
| 6 | 69,900,000 | 70,050,000 | 933 | 435 | 0.991911469 | USP46 |
| 6 | 69,975,000 | 70,125,000 | 934 | 906 | 0.278971525 | USP46 |
| 6 | 70,050,000 | 70,200,000 | 935 | 1064 | 0.108311381 | RASL11B,SCFD2 |
| 6 | 70,125,000 | 70,275,000 | 936 | 926 | -0.703181931 | RASL11B,SCFD2 |
| 6 | 70,200,000 | 70,350,000 | 937 | 1054 | -0.697235014 | SCFD2 |
| 6 | 70,275,000 | 70,425,000 | 938 | 808 | -0.817008284 | SCFD2 |
| 6 | 70,350,000 | 70,500,000 | 939 | 643 | -0.391367869 | SCFD2 |
| 6 | 70,425,000 | 70,575,000 | 940 | 548 | -0.195665605 | SCFD2 |
| 6 | 70,500,000 | 70,650,000 | 941 | 521 | -2.32553087 | FIP1L1,SCFD2 |
| 6 | 70,575,000 | 70,725,000 | 942 | 616 | -0.640123958 | FIP1L1,LNX1,SCFD2 |
| 6 | 70,650,000 | 70,800,000 | 943 | 900 | 0.705101208 | FIP1L1,LNX1 |
| 6 | 70,725,000 | 70,875,000 | 944 | 894 | 0.560115022 | LNX1 |
| 6 | 70,800,000 | 70,950,000 | 945 | 701 | 1.130938964 | |
| 6 | 70,875,000 | 71,025,000 | 946 | 647 | 0.978793964 | |
| 6 | 70,950,000 | 71,100,000 | 947 | 437 | 0.400394575 | |
| 6 | 71,025,000 | 71,175,000 | 948 | 505 | 1.060704299 | |
| 6 | 71,100,000 | 71,250,000 | 949 | 476 | 1.244644644 | CHIC2 |
| 6 | 71,175,000 | 71,325,000 | 950 | 378 | 1.356319158 | CHIC2,GSX2 |
| 6 | 71,250,000 | 71,400,000 | 951 | 518 | 1.24890881 | GSX2,PDGFRA |
| 6 | 71,325,000 | 71,475,000 | 952 | 751 | -0.901091671 | PDGFRA |
| 6 | 71,400,000 | 71,550,000 | 953 | 616 | -0.986552859 | PDGFRA |
| 6 | 71,475,000 | 71,625,000 | 954 | 454 | 0.63539992 | |
| 6 | 71,550,000 | 71,700,000 | 955 | 734 | 0.7681482 | |
| 6 | 71,625,000 | 71,775,000 | 956 | 856 | 0.993463855 | |
| 6 | 71,700,000 | 71,850,000 | 957 | 548 | 1.094974838 | KIT |
| 6 | 71,775,000 | 71,925,000 | 958 | 477 | 1.045260318 | KIT |
| 6 | 71,850,000 | 72,000,000 | 959 | 688 | 1.058953029 | KIT |
| 6 | 71,925,000 | 72,075,000 | 960 | 833 | 0.742744775 | |
| 6 | 72,000,000 | 72,150,000 | 961 | 952 | 0.566437428 | |
| 6 | 72,075,000 | 72,225,000 | 962 | 947 | 0.501958035 | |
| 6 | 72,150,000 | 72,300,000 | 963 | 893 | 0.61342219 | KDR |
| 6 | 72,225,000 | 72,375,000 | 964 | 657 | 0.88828071 | KDR |
| 6 | 72,300,000 | 72,450,000 | 965 | 705 | 0.260424937 | |
| 6 | 72,375,000 | 72,525,000 | 966 | 907 | 0.081364591 | SRD5A3,ENSBTAG00000045602 |
| 6 | 72,450,000 | 72,600,000 | 967 | 619 | 0.451885288 | CLOCK,SRD5A3,TMEM165,ENSBTAG00000045602 |
| 6 | 72,525,000 | 72,675,000 | 968 | 332 | 0.536040986 | CLOCK,TMEM165 |
| 6 | 72,600,000 | 72,750,000 | 969 | 360 | 0.478308919 | CLOCK,NMU,PDCL2 |
| 6 | 72,675,000 | 72,825,000 | 970 | 465 | 0.629891959 | NMU,PDCL2 |
| 6 | 72,750,000 | 72,900,000 | 971 | 793 | -0.441574685 | NMU |
| 6 | 72,825,000 | 72,975,000 | 972 | 1239 | -0.312807254 | EXOC1 |
| 6 | 72,900,000 | 73,050,000 | 973 | 1367 | 0.679149084 | CEP135,EXOC1 |
| 6 | 72,975,000 | 73,125,000 | 974 | 1350 | 0.244832708 | CEP135,EXOC1 |
| 6 | 73,050,000 | 73,200,000 | 975 | 1425 | -0.149511502 | CEP135 |
| 6 | 73,125,000 | 73,275,000 | 976 | 1345 | -0.248849646 | |
| 6 | 73,200,000 | 73,350,000 | 977 | 1162 | -0.37844004 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 6 | 73,275,000 | 73,425,000 | 978 | 743 | -0.5256143 | AASDH,MGC148692 |
| 6 | 73,350,000 | 73,500,000 | 979 | 353 | -0.472234954 | AASDH,MGC148692,PAICS,PPAT |
| 6 | 73,425,000 | 73,575,000 | 980 | 451 | -0.812921664 | AASDH,ARL9,PAICS,PPAT,SRP72 |
| 6 | 73,500,000 | 73,650,000 | 981 | 883 | -2.052562901 | ARL9,HOP,PAICS,SRP72,ENSBTAG00000002330 |
| 6 | 73,575,000 | 73,725,000 | 982 | 1192 | -1.760758406 | HOP,ENSBTAG00000002330 |
| 6 | 73,650,000 | 73,800,000 | 983 | 1370 | -0.710852748 | SPINK2 |
| 6 | 73,725,000 | 73,875,000 | 984 | 1247 | -1.323154187 | MGC157163,SPINK2 |
| 6 | 73,800,000 | 73,950,000 | 985 | 953 | -1.795076559 | MGC157163 |
| 6 | 73,875,000 | 74,025,000 | 986 | 980 | -1.817572269 | NOA1,ENSBTAG00000019359 |
| 6 | 73,950,000 | 74,100,000 | 987 | 1061 | -1.150829094 | IGFBP7,NOA1,POLR2B,ENSBTAG00000019359 |
| 6 | 74,025,000 | 74,175,000 | 988 | 1055 | -0.027479832 | IGFBP7,NOA1,POLR2B |
| 6 | 74,100,000 | 74,250,000 | 989 | 1225 | 0.333596765 | IGFBP7 |
| 6 | 74,175,000 | 74,325,000 | 990 | 1397 | 0.169626787 | |
| 6 | 74,250,000 | 74,400,000 | 991 | 1490 | 0.498851357 | |
| 6 | 74,325,000 | 74,475,000 | 992 | 1452 | 0.658056968 | |
| 6 | 74,400,000 | 74,550,000 | 993 | 1200 | 0.208497128 | |
| 6 | 74,475,000 | 74,625,000 | 994 | 1210 | 0.055563202 | |
| 6 | 74,550,000 | 74,700,000 | 995 | 1117 | -0.036684826 | |
| 6 | 74,625,000 | 74,775,000 | 996 | 1102 | 0.349676037 | |
| 6 | 74,700,000 | 74,850,000 | 997 | 1561 | 0.954057357 | |
| 6 | 74,775,000 | 74,925,000 | 998 | 1655 | 0.880152495 | |
| 6 | 74,850,000 | 75,000,000 | 999 | 1325 | -0.754903894 | |
| 6 | 74,925,000 | 75,075,000 | 1000 | 1072 | -1.338712106 | |
| 6 | 75,000,000 | 75,150,000 | 1001 | 1300 | -2.757693579 | |
| 6 | 75,075,000 | 75,225,000 | 1002 | 1512 | -3.091541152 | |
| 6 | 75,150,000 | 75,300,000 | 1003 | 1240 | -2.407825226 | |
| 6 | 75,225,000 | 75,375,000 | 1004 | 1138 | -2.941002636 | |
| 6 | 75,300,000 | 75,450,000 | 1005 | 1054 | -2.760835962 | |
| 6 | 75,375,000 | 75,525,000 | 1006 | 1055 | -0.910565231 | |
| 6 | 75,450,000 | 75,600,000 | 1007 | 1237 | -0.460346154 | |
| 6 | 75,525,000 | 75,675,000 | 1008 | 1125 | -3.192901847 | |
| 6 | 75,600,000 | 75,750,000 | 1009 | 972 | -2.911643898 | |
| 6 | 75,675,000 | 75,825,000 | 1010 | 1041 | 0.800667709 | |
| 6 | 75,750,000 | 75,900,000 | 1011 | 1085 | 0.888608281 | |
| 6 | 75,825,000 | 75,975,000 | 1012 | 1215 | -0.504085986 | |
| 6 | 75,900,000 | 76,050,000 | 1013 | 1375 | 0.17993778 | |
| 6 | 75,975,000 | 76,125,000 | 1014 | 1285 | 0.896088788 | |
| 6 | 76,050,000 | 76,200,000 | 1015 | 1651 | 0.803756287 | |
| 6 | 76,125,000 | 76,275,000 | 1016 | 1859 | 0.828125612 | |
| 6 | 76,200,000 | 76,350,000 | 1017 | 1632 | 1.066937567 | |
| 6 | 76,275,000 | 76,425,000 | 1018 | 1399 | 1.20142237 | |
| 6 | 76,350,000 | 76,500,000 | 1019 | 1208 | 1.220870493 | |
| 6 | 76,425,000 | 76,575,000 | 1020 | 1484 | -0.077986671 | |
| 6 | 76,500,000 | 76,650,000 | 1021 | 1525 | -0.411092147 | |
| 6 | 76,575,000 | 76,725,000 | 1022 | 1347 | 0.279726982 | |
| 6 | 76,650,000 | 76,800,000 | 1023 | 1300 | -0.244557663 | |
| 6 | 76,725,000 | 76,875,000 | 1024 | 1179 | -0.310111222 | |
| 6 | 76,800,000 | 76,950,000 | 1025 | 1156 | -1.313572444 | |
| 6 | 76,875,000 | 77,025,000 | 1026 | 1286 | -1.070419518 | |
| 6 | 76,950,000 | 77,100,000 | 1027 | 1218 | -0.428764103 | |
| 6 | 77,025,000 | 77,175,000 | 1028 | 942 | -0.919359609 | |
| 6 | 77,100,000 | 77,250,000 | 1029 | 817 | -1.993818638 | |
| 6 | 77,175,000 | 77,325,000 | 1030 | 992 | -0.319457737 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------|
| 6 | 77,250,000 | 77,400,000 | 1031 | 1567 | 1.24934739 | |
| 6 | 77,325,000 | 77,475,000 | 1032 | 1520 | 0.343429652 | |
| 6 | 77,400,000 | 77,550,000 | 1033 | 966 | -3.092698554 | |
| 6 | 77,475,000 | 77,625,000 | 1034 | 860 | -5.290851882 | |
| 6 | 77,550,000 | 77,700,000 | 1035 | 1064 | -4.233916559 | |
| 6 | 77,625,000 | 77,775,000 | 1036 | 849 | -3.517891753 | |
| 6 | 77,700,000 | 77,850,000 | 1037 | 512 | -1.318369761 | |
| 6 | 77,775,000 | 77,925,000 | 1038 | 538 | -0.489584447 | |
| 6 | 77,850,000 | 78,000,000 | 1039 | 691 | 0.621049629 | |
| 6 | 77,925,000 | 78,075,000 | 1040 | 1074 | 1.210638251 | |
| 6 | 78,000,000 | 78,150,000 | 1041 | 1010 | 0.698660611 | |
| 6 | 78,075,000 | 78,225,000 | 1042 | 789 | -1.245975688 | |
| 6 | 78,150,000 | 78,300,000 | 1043 | 1115 | -2.734858527 | |
| 6 | 78,225,000 | 78,375,000 | 1044 | 1198 | -1.275878432 | |
| 6 | 78,300,000 | 78,450,000 | 1045 | 820 | 0.531777276 | |
| 6 | 78,375,000 | 78,525,000 | 1046 | 781 | 0.686756846 | |
| 6 | 78,450,000 | 78,600,000 | 1047 | 1013 | 0.551852237 | |
| 6 | 78,525,000 | 78,675,000 | 1048 | 896 | 0.266485898 | |
| 6 | 78,600,000 | 78,750,000 | 1049 | 634 | 0.325516932 | |
| 6 | 78,675,000 | 78,825,000 | 1050 | 784 | 1.137271974 | |
| 6 | 78,750,000 | 78,900,000 | 1051 | 832 | 1.25286311 | |
| 6 | 78,825,000 | 78,975,000 | 1052 | 518 | 0.365313988 | |
| 6 | 78,900,000 | 79,050,000 | 1053 | 699 | -0.267511928 | LPHN3 |
| 6 | 78,975,000 | 79,125,000 | 1054 | 754 | 0.450978583 | LPHN3 |
| 6 | 79,050,000 | 79,200,000 | 1055 | 535 | 0.823682011 | LPHN3 |
| 6 | 79,125,000 | 79,275,000 | 1056 | 768 | 0.421451774 | LPHN3 |
| 6 | 79,200,000 | 79,350,000 | 1057 | 627 | -0.041199102 | LPHN3 |
| 6 | 79,275,000 | 79,425,000 | 1058 | 612 | -0.31744749 | LPHN3 |
| 6 | 79,350,000 | 79,500,000 | 1059 | 1100 | -0.649955083 | |
| 6 | 79,425,000 | 79,575,000 | 1060 | 1381 | -0.158568165 | |
| 6 | 79,500,000 | 79,650,000 | 1061 | 1050 | 0.221608154 | |
| 6 | 79,575,000 | 79,725,000 | 1062 | 837 | -0.419787177 | |
| 6 | 79,650,000 | 79,800,000 | 1063 | 985 | -0.187249292 | |
| 6 | 79,725,000 | 79,875,000 | 1064 | 734 | -0.326771493 | |
| 6 | 79,800,000 | 79,950,000 | 1065 | 548 | -0.001011457 | |
| 6 | 79,875,000 | 80,025,000 | 1066 | 607 | 0.706516086 | |
| 6 | 79,950,000 | 80,100,000 | 1067 | 581 | 0.653596666 | |
| 6 | 80,025,000 | 80,175,000 | 1068 | 498 | 0.348600456 | |
| 6 | 80,100,000 | 80,250,000 | 1069 | 639 | 0.300354005 | |
| 6 | 80,175,000 | 80,325,000 | 1070 | 1163 | 0.263746479 | |
| 6 | 80,250,000 | 80,400,000 | 1071 | 1033 | 0.018738661 | |
| 6 | 80,325,000 | 80,475,000 | 1072 | 603 | -0.794592092 | |
| 6 | 80,400,000 | 80,550,000 | 1073 | 737 | 0.609950595 | |
| 6 | 80,475,000 | 80,625,000 | 1074 | 682 | 1.076456153 | |
| 6 | 80,550,000 | 80,700,000 | 1075 | 835 | 1.081172515 | |
| 6 | 80,625,000 | 80,775,000 | 1076 | 1304 | 1.038553908 | |
| 6 | 80,700,000 | 80,850,000 | 1077 | 1334 | -1.803217038 | |
| 6 | 80,775,000 | 80,925,000 | 1078 | 1259 | -5.309642917 | |
| 6 | 80,850,000 | 81,000,000 | 1079 | 1241 | -2.773482344 | |
| 6 | 80,925,000 | 81,075,000 | 1080 | 1328 | -1.284803678 | |
| 6 | 81,000,000 | 81,150,000 | 1081 | 1733 | 0.178030848 | |
| 6 | 81,075,000 | 81,225,000 | 1082 | 1620 | 0.097170015 | |
| 6 | 81,150,000 | 81,300,000 | 1083 | 1354 | -0.605832145 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 6 | 81,225,000 | 81,375,000 | 1084 | 1690 | -2.305513266 | |
| 6 | 81,300,000 | 81,450,000 | 1085 | 1888 | -3.221636918 | |
| 6 | 81,375,000 | 81,525,000 | 1086 | 1863 | -3.675486331 | TECRL |
| 6 | 81,450,000 | 81,600,000 | 1087 | 1575 | -3.683321154 | TECRL |
| 6 | 81,525,000 | 81,675,000 | 1088 | 1199 | -3.081258935 | TECRL |
| 6 | 81,600,000 | 81,750,000 | 1089 | 1255 | -3.627933993 | TECRL |
| 6 | 81,675,000 | 81,825,000 | 1090 | 1143 | -4.144612018 | |
| 6 | 81,750,000 | 81,900,000 | 1091 | 1092 | -3.078915018 | |
| 6 | 81,825,000 | 81,975,000 | 1092 | 1187 | -1.721910556 | |
| 6 | 81,900,000 | 82,050,000 | 1093 | 803 | -1.732704607 | |
| 6 | 81,975,000 | 82,125,000 | 1094 | 579 | -1.905791819 | |
| 6 | 82,050,000 | 82,200,000 | 1095 | 550 | -0.928440785 | |
| 6 | 82,125,000 | 82,275,000 | 1096 | 401 | 0.362518581 | |
| 6 | 82,200,000 | 82,350,000 | 1097 | 381 | 0.294572789 | |
| 6 | 82,275,000 | 82,425,000 | 1098 | 369 | -0.540850229 | |
| 6 | 82,350,000 | 82,500,000 | 1099 | 559 | -1.822466736 | |
| 6 | 82,425,000 | 82,575,000 | 1100 | 902 | -0.267500115 | EPHA5 |
| 6 | 82,500,000 | 82,650,000 | 1101 | 1015 | 0.540398057 | EPHA5 |
| 6 | 82,575,000 | 82,725,000 | 1102 | 1255 | -0.093946256 | EPHA5 |
| 6 | 82,650,000 | 82,800,000 | 1103 | 1137 | -0.283380647 | EPHA5 |
| 6 | 82,725,000 | 82,875,000 | 1104 | 830 | 0.133356865 | EPHA5 |
| 6 | 82,800,000 | 82,950,000 | 1105 | 1171 | 0.695911268 | EPHA5 |
| 6 | 82,875,000 | 83,025,000 | 1106 | 1183 | 0.520000042 | EPHA5 |
| 6 | 82,950,000 | 83,100,000 | 1107 | 1261 | -0.206416355 | EPHA5 |
| 6 | 83,025,000 | 83,175,000 | 1108 | 1513 | -0.727859607 | |
| 6 | 83,100,000 | 83,250,000 | 1109 | 1375 | -0.127064339 | |
| 6 | 83,175,000 | 83,325,000 | 1110 | 1581 | 0.695567546 | |
| 6 | 83,250,000 | 83,400,000 | 1111 | 1374 | 0.447115945 | |
| 6 | 83,325,000 | 83,475,000 | 1112 | 1094 | 0.448529341 | |
| 6 | 83,400,000 | 83,550,000 | 1113 | 1299 | -0.354872537 | |
| 6 | 83,475,000 | 83,625,000 | 1114 | 1535 | 0.02633038 | |
| 6 | 83,550,000 | 83,700,000 | 1115 | 1541 | 1.171803583 | |
| 6 | 83,625,000 | 83,775,000 | 1116 | 1230 | 1.020660549 | |
| 6 | 83,700,000 | 83,850,000 | 1117 | 1405 | -0.127755707 | |
| 6 | 83,775,000 | 83,925,000 | 1118 | 1648 | 0.117556118 | |
| 6 | 83,850,000 | 84,000,000 | 1119 | 1565 | 0.477765787 | |
| 6 | 83,925,000 | 84,075,000 | 1120 | 1690 | -0.427914843 | |
| 6 | 84,000,000 | 84,150,000 | 1121 | 1876 | 0.001101315 | |
| 6 | 84,075,000 | 84,225,000 | 1122 | 1707 | 0.563272095 | |
| 6 | 84,150,000 | 84,300,000 | 1123 | 1532 | -0.987764652 | |
| 6 | 84,225,000 | 84,375,000 | 1124 | 1278 | -0.956170547 | |
| 6 | 84,300,000 | 84,450,000 | 1125 | 1120 | 0.576847314 | |
| 6 | 84,375,000 | 84,525,000 | 1126 | 1037 | 0.649475914 | |
| 6 | 84,450,000 | 84,600,000 | 1127 | 1119 | 1.084906668 | |
| 6 | 84,525,000 | 84,675,000 | 1128 | 1295 | 1.180046344 | |
| 6 | 84,600,000 | 84,750,000 | 1129 | 1367 | 1.019258013 | |
| 6 | 84,675,000 | 84,825,000 | 1130 | 1526 | 1.135005222 | |
| 6 | 84,750,000 | 84,900,000 | 1131 | 1396 | 0.704673228 | |
| 6 | 84,825,000 | 84,975,000 | 1132 | 1048 | 0.290811017 | CENPC1 |
| 6 | 84,900,000 | 85,050,000 | 1133 | 830 | 0.456134291 | CENPC1,STAP1 |
| 6 | 84,975,000 | 85,125,000 | 1134 | 696 | -0.412288436 | CENPC1,STAP1,UBA6 |
| 6 | 85,050,000 | 85,200,000 | 1135 | 805 | -2.300844935 | GNRHR,UBA6,ENSBTAG00000038648 |
| 6 | 85,125,000 | 85,275,000 | 1136 | 1167 | -1.085324267 | GNRHR,TMPRSS11D,UBA6,ENSBTAG00000038648 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 6 | 85,200,000 | 85,350,000 | 1137 | 1129 | 0.954337112 | TMPRSS11A,TMPRSS11D,ENSBTAG00000038648 |
| 6 | 85,275,000 | 85,425,000 | 1138 | 922 | 0.968541958 | TMPRSS11A,TMPRSS11D,ENSBTAG00000025920 |
| 6 | 85,350,000 | 85,500,000 | 1139 | 929 | 0.575729071 | TMPRSS11A,TMPRSS11F,ENSBTAG00000025920 |
| 6 | 85,425,000 | 85,575,000 | 1140 | 1016 | 0.323620471 | TMPRSS11F,ENSBTAG00000025920 |
| 6 | 85,500,000 | 85,650,000 | 1141 | 810 | -0.054063099 | TMPRSS11F,ENSBTAG00000038520 |
| 6 | 85,575,000 | 85,725,000 | 1142 | 955 | 0.165217494 | ENSBTAG00000038520 |
| 6 | 85,650,000 | 85,800,000 | 1143 | 854 | 0.340902556 | ENSBTAG00000038520 |
| 6 | 85,725,000 | 85,875,000 | 1144 | 488 | 0.474570168 | YTHDC1 |
| 6 | 85,800,000 | 85,950,000 | 1145 | 606 | 0.004079793 | YTHDC1,ENSBTAG00000048013 |
| 6 | 85,875,000 | 86,025,000 | 1146 | 687 | 0.206507414 | YTHDC1,ENSBTAG00000039362,ENSBTAG00000048013 |
| 6 | 85,950,000 | 86,100,000 | 1147 | 853 | 0.868194284 | ENSBTAG00000032350,ENSBTAG00000037613,ENSBTAG00000039362 |
| 6 | 86,025,000 | 86,175,000 | 1148 | 862 | 0.454434889 | ENSBTAG00000032350,ENSBTAG00000037613,ENSBTAG00000039991,ENSBTAG00000040337 |
| 6 | 86,100,000 | 86,250,000 | 1149 | 887 | -0.132915266 | ENSBTAG00000022205,ENSBTAG00000039991,ENSBTAG00000040337 |
| 6 | 86,175,000 | 86,325,000 | 1150 | 1003 | 0.251314288 | ENSBTAG00000022205,ENSBTAG00000039991 |
| 6 | 86,250,000 | 86,400,000 | 1151 | 1176 | 0.503105664 | ENSBTAG00000003523 |
| 6 | 86,325,000 | 86,475,000 | 1152 | 1410 | 0.539410403 | MGC152010,ENSBTAG00000003523 |
| 6 | 86,400,000 | 86,550,000 | 1153 | 1264 | 0.596367643 | MGC152010 |
| 6 | 86,475,000 | 86,625,000 | 1154 | 1095 | 0.566513892 | |
| 6 | 86,550,000 | 86,700,000 | 1155 | 1129 | 0.552786637 | ENSBTAG00000015047 |
| 6 | 86,625,000 | 86,775,000 | 1156 | 1104 | 0.185961661 | ENSBTAG00000015047 |
| 6 | 86,700,000 | 86,850,000 | 1157 | 1292 | 0.521701846 | UGT2A3,ENSBTAG00000015047 |
| 6 | 86,775,000 | 86,925,000 | 1158 | 1091 | 0.954457907 | SULT1B1,UGT2A1,UGT2A3 |
| 6 | 86,850,000 | 87,000,000 | 1159 | 852 | 1.14816403 | SULT1B1,UGT2A1,ENSBTAG00000038214 |
| 6 | 86,925,000 | 87,075,000 | 1160 | 1043 | 1.127690675 | SULT1B1,SULT1E1,ENSBTAG00000038214 |
| 6 | 87,000,000 | 87,150,000 | 1161 | 995 | 0.875222103 | CSN1S1,SULT1E1,ENSBTAG00000038214 |
| 6 | 87,075,000 | 87,225,000 | 1162 | 1152 | 0.260083323 | CSN1S1,CSN2,HSTN,SULT1E1 |
| 6 | 87,150,000 | 87,300,000 | 1163 | 909 | -0.425478508 | CSN1S1,CSN1S2,CSN2,HSTN,STATH |
| 6 | 87,225,000 | 87,375,000 | 1164 | 627 | 0.467659108 | CSN1S2,ODAM,STATH |
| 6 | 87,300,000 | 87,450,000 | 1165 | 968 | 0.914669771 | CSN3,ODAM |
| 6 | 87,375,000 | 87,525,000 | 1166 | 752 | 0.436610678 | CABS1,CSN3,ENSBTAG00000027531 |
| 6 | 87,450,000 | 87,600,000 | 1167 | 843 | 0.251014615 | CABS1,ENSBTAG00000027531 |
| 6 | 87,525,000 | 87,675,000 | 1168 | 1078 | -0.132951335 | AMTN |
| 6 | 87,600,000 | 87,750,000 | 1169 | 856 | -0.216330165 | AMBN,AMTN,ENAM |
| 6 | 87,675,000 | 87,825,000 | 1170 | 595 | 0.362150691 | AMBN,ENAM,IGJ,RUFY3,UTP3 |
| 6 | 87,750,000 | 87,900,000 | 1171 | 357 | -0.274614517 | IGJ,RUFY3,UTP3 |
| 6 | 87,825,000 | 87,975,000 | 1172 | 411 | 0.66860088 | GRSF1,RUFY3 |
| 6 | 87,900,000 | 88,050,000 | 1173 | 433 | 0.465716387 | DCK,GRSF1,MOB1B,RUFY3 |
| 6 | 87,975,000 | 88,125,000 | 1174 | 408 | 0.117658229 | DCK,MOB1B |
| 6 | 88,050,000 | 88,200,000 | 1175 | 422 | 0.375752135 | DCK,SLC4A4 |
| 6 | 88,125,000 | 88,275,000 | 1176 | 501 | 0.224797859 | SLC4A4 |
| 6 | 88,200,000 | 88,350,000 | 1177 | 512 | 0.420074491 | SLC4A4 |
| 6 | 88,275,000 | 88,425,000 | 1178 | 574 | 0.532740407 | SLC4A4 |
| 6 | 88,350,000 | 88,500,000 | 1179 | 844 | 0.586585967 | SLC4A4 |
| 6 | 88,425,000 | 88,575,000 | 1180 | 768 | 0.847432897 | SLC4A4 |
| 6 | 88,500,000 | 88,650,000 | 1181 | 711 | 0.042125424 | SLC4A4 |
| 6 | 88,575,000 | 88,725,000 | 1182 | 1154 | 0.304734725 | GC |
| 6 | 88,650,000 | 88,800,000 | 1183 | 1449 | 0.345088521 | GC |
| 6 | 88,725,000 | 88,875,000 | 1184 | 1316 | -1.056502227 | GC |
| 6 | 88,800,000 | 88,950,000 | 1185 | 1498 | -0.987665951 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 6 | 88,875,000 | 89,025,000 | 1186 | 1533 | -0.706146459 | |
| 6 | 88,950,000 | 89,100,000 | 1187 | 1253 | -0.558705767 | NPFFR2 |
| 6 | 89,025,000 | 89,175,000 | 1188 | 1231 | -0.637807564 | ADAMTS3,NPFFR2 |
| 6 | 89,100,000 | 89,250,000 | 1189 | 932 | -1.251533179 | ADAMTS3 |
| 6 | 89,175,000 | 89,325,000 | 1190 | 1049 | -1.084255779 | ADAMTS3 |
| 6 | 89,250,000 | 89,400,000 | 1191 | 1153 | -1.262357097 | ADAMTS3 |
| 6 | 89,325,000 | 89,475,000 | 1192 | 691 | -0.568783817 | ADAMTS3 |
| 6 | 89,400,000 | 89,550,000 | 1193 | 665 | 0.57742689 | ADAMTS3 |
| 6 | 89,475,000 | 89,625,000 | 1194 | 714 | 0.378581999 | |
| 6 | 89,550,000 | 89,700,000 | 1195 | 731 | 0.042954413 | |
| 6 | 89,625,000 | 89,775,000 | 1196 | 665 | 0.050279356 | |
| 6 | 89,700,000 | 89,850,000 | 1197 | 513 | 0.626881389 | |
| 6 | 89,775,000 | 89,925,000 | 1198 | 491 | 0.274309509 | COX18 |
| 6 | 89,850,000 | 90,000,000 | 1199 | 315 | -0.186209729 | ANKRD17,COX18 |
| 6 | 89,925,000 | 90,075,000 | 1200 | 221 | 0.569174638 | ANKRD17,COX18 |
| 6 | 90,000,000 | 90,150,000 | 1201 | 314 | 0.993074814 | ANKRD17 |
| 6 | 90,075,000 | 90,225,000 | 1202 | 437 | 1.029046013 | ANKRD17 |
| 6 | 90,150,000 | 90,300,000 | 1203 | 656 | 0.74244963 | AFM,AFP,ALB |
| 6 | 90,225,000 | 90,375,000 | 1204 | 940 | 0.473029431 | AFM,AFP,ALB,RASSF6 |
| 6 | 90,300,000 | 90,450,000 | 1205 | 885 | 0.010927257 | AFM,RASSF6 |
| 6 | 90,375,000 | 90,525,000 | 1206 | 604 | -0.283543286 | RASSF6 |
| 6 | 90,450,000 | 90,600,000 | 1207 | 681 | -0.228945754 | CXCL8 |
| 6 | 90,525,000 | 90,675,000 | 1208 | 856 | -0.017655624 | CXCL6,CXCL8,PF4,PPBP,ENSBTAG00000024080 |
| 6 | 90,600,000 | 90,750,000 | 1209 | 765 | -0.007321737 | CXCL6,PF4,PPBP,ENSBTAG00000024080,ENSBTAG0000027513 |
| 6 | 90,675,000 | 90,825,000 | 1210 | 729 | -1.475162106 | CXCL3,GRO1,ENSBTAG00000027513 |
| 6 | 90,750,000 | 90,900,000 | 1211 | 868 | -0.79419946 | CXCL3,GRO1,MTHFD2L |
| 6 | 90,825,000 | 90,975,000 | 1212 | 1048 | 0.241612434 | MTHFD2L |
| 6 | 90,900,000 | 91,050,000 | 1213 | 1020 | 0.433971316 | EPGN,MTHFD2L |
| 6 | 90,975,000 | 91,125,000 | 1214 | 811 | 0.603701697 | EPGN,EREG,MTHFD2L |
| 6 | 91,050,000 | 91,200,000 | 1215 | 1168 | -0.295509609 | AREG,EREG |
| 6 | 91,125,000 | 91,275,000 | 1216 | 1422 | 0.167584596 | AREG |
| 6 | 91,200,000 | 91,350,000 | 1217 | 1436 | 0.595758437 | |
| 6 | 91,275,000 | 91,425,000 | 1218 | 1552 | 0.598646988 | |
| 6 | 91,350,000 | 91,500,000 | 1219 | 1249 | 0.378994817 | BTC |
| 6 | 91,425,000 | 91,575,000 | 1220 | 1248 | -0.549861944 | BTC |
| 6 | 91,500,000 | 91,650,000 | 1221 | 1018 | -1.555125842 | DKFZP564O0823 |
| 6 | 91,575,000 | 91,725,000 | 1222 | 508 | -1.962668414 | DKFZP564O0823 |
| 6 | 91,650,000 | 91,800,000 | 1223 | 690 | 0.541779479 | DKFZP564O0823 |
| 6 | 91,725,000 | 91,875,000 | 1224 | 859 | 0.786142286 | |
| 6 | 91,800,000 | 91,950,000 | 1225 | 568 | 0.359493031 | |
| 6 | 91,875,000 | 92,025,000 | 1226 | 445 | -0.012864482 | |
| 6 | 91,950,000 | 92,100,000 | 1227 | 534 | 0.289725641 | RCHY1,THAP6 |
| 6 | 92,025,000 | 92,175,000 | 1228 | 786 | 0.048441967 | CDKL2,RCHY1,THAP6 |
| 6 | 92,100,000 | 92,250,000 | 1229 | 792 | -0.08248777 | CDKL2,G3BP2,THAP6 |
| 6 | 92,175,000 | 92,325,000 | 1230 | 453 | -0.029194183 | CDKL2,G3BP2,USO1 |
| 6 | 92,250,000 | 92,400,000 | 1231 | 510 | 0.037457457 | USO1 |
| 6 | 92,325,000 | 92,475,000 | 1232 | 1106 | 0.508521373 | PPEF2,USO1 |
| 6 | 92,400,000 | 92,550,000 | 1233 | 1312 | 0.450363062 | NAAA,PPEF2 |
| 6 | 92,475,000 | 92,625,000 | 1234 | 1055 | -0.125137068 | ART3,CXCL10,CXCL9,NAAA,PPEF2,SDAD1 |
| 6 | 92,550,000 | 92,700,000 | 1235 | 785 | -0.466888073 | ART3,CXCL10,CXCL11,CXCL9,SDAD1 |
| 6 | 92,625,000 | 92,775,000 | 1236 | 829 | -0.907084499 | ART3,CXCL10,CXCL11,NUP54 |
| 6 | 92,700,000 | 92,850,000 | 1237 | 1330 | -1.173167048 | ART3,NUP54,SCARB2 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 6 | 92,775,000 | 92,925,000 | 1238 | 1591 | -0.447366798 | NUP54,SCARB2,ENSBTAG00000004921 |
| 6 | 92,850,000 | 93,000,000 | 1239 | 1294 | -0.323726287 | CCDC158,FAM47E-STBD1,SCARB2,ENSBTAG00000004921 |
| 6 | 92,925,000 | 93,075,000 | 1240 | 1291 | -0.531027279 | CCDC158,FAM47E-STBD1,ENSBTAG00000004921 |
| 6 | 93,000,000 | 93,150,000 | 1241 | 1659 | -0.198173597 | CCDC158 |
| 6 | 93,075,000 | 93,225,000 | 1242 | 1553 | -0.869572074 | |
| 6 | 93,150,000 | 93,300,000 | 1243 | 1332 | -1.088484213 | |
| 6 | 93,225,000 | 93,375,000 | 1244 | 1150 | -0.210122807 | SHROOM3 |
| 6 | 93,300,000 | 93,450,000 | 1245 | 718 | -0.23679101 | SHROOM3 |
| 6 | 93,375,000 | 93,525,000 | 1246 | 656 | -0.498653955 | SHROOM3,SOWAHB |
| 6 | 93,450,000 | 93,600,000 | 1247 | 1041 | 0.332953587 | SEPT11,SOWAHB |
| 6 | 93,525,000 | 93,675,000 | 1248 | 1235 | -0.658574063 | CCNI,SEPT11 |
| 6 | 93,600,000 | 93,750,000 | 1249 | 1246 | -1.584414494 | CCNG2,CCNI,SEPT11 |
| 6 | 93,675,000 | 93,825,000 | 1250 | 1200 | -0.917377312 | CCNG2 |
| 6 | 93,750,000 | 93,900,000 | 1251 | 1227 | 0.163695959 | CCNG2,SLC25A16 |
| 6 | 93,825,000 | 93,975,000 | 1252 | 815 | 0.308386253 | SLC25A16 |
| 6 | 93,900,000 | 94,050,000 | 1253 | 541 | -1.151961237 | CXCL13 |
| 6 | 93,975,000 | 94,125,000 | 1254 | 663 | -2.75396803 | CXCL13,RPL23A |
| 6 | 94,050,000 | 94,200,000 | 1255 | 579 | -2.068938728 | CNOT6L,RPL23A |
| 6 | 94,125,000 | 94,275,000 | 1256 | 486 | 0.632384881 | CNOT6L |
| 6 | 94,200,000 | 94,350,000 | 1257 | 486 | -0.086306139 | CNOT6L,MRPL1 |
| 6 | 94,275,000 | 94,425,000 | 1258 | 576 | -1.007684409 | MRPL1 |
| 6 | 94,350,000 | 94,500,000 | 1259 | 743 | 0.276898452 | MRPL1 |
| 6 | 94,425,000 | 94,575,000 | 1260 | 879 | 0.700373187 | |
| 6 | 94,500,000 | 94,650,000 | 1261 | 859 | 0.507029441 | |
| 6 | 94,575,000 | 94,725,000 | 1262 | 808 | -1.026057551 | FRAS1 |
| 6 | 94,650,000 | 94,800,000 | 1263 | 978 | -2.439462306 | FRAS1 |
| 6 | 94,725,000 | 94,875,000 | 1264 | 1010 | -1.871209621 | FRAS1 |
| 6 | 94,800,000 | 94,950,000 | 1265 | 735 | -1.732693133 | FRAS1 |
| 6 | 94,875,000 | 95,025,000 | 1266 | 452 | -1.537759595 | FRAS1 |
| 6 | 94,950,000 | 95,100,000 | 1267 | 418 | -0.33228428 | ANXA3,FRAS1 |
| 6 | 95,025,000 | 95,175,000 | 1268 | 558 | -0.581603155 | ANXA3,FRAS1 |
| 6 | 95,100,000 | 95,250,000 | 1269 | 772 | -0.541097825 | ANXA3 |
| 6 | 95,175,000 | 95,325,000 | 1270 | 804 | 0.074563682 | |
| 6 | 95,250,000 | 95,400,000 | 1271 | 601 | -0.564953405 | BMP2K |
| 6 | 95,325,000 | 95,475,000 | 1272 | 694 | -1.215586322 | BMP2K,PAQR3 |
| 6 | 95,400,000 | 95,550,000 | 1273 | 821 | -0.500254295 | BMP2K,PAQR3 |
| 6 | 95,475,000 | 95,625,000 | 1274 | 943 | 0.470610412 | |
| 6 | 95,550,000 | 95,700,000 | 1275 | 1196 | 0.345397116 | |
| 6 | 95,625,000 | 95,775,000 | 1276 | 1081 | -0.395232982 | |
| 6 | 95,700,000 | 95,850,000 | 1277 | 958 | 0.205141401 | NAA11 |
| 6 | 95,775,000 | 95,925,000 | 1278 | 894 | 0.993744237 | DYNLL1,GK2,NAA11 |
| 6 | 95,850,000 | 96,000,000 | 1279 | 764 | -0.702532645 | DYNLL1,GK2 |
| 6 | 95,925,000 | 96,075,000 | 1280 | 1243 | -1.812879998 | |
| 6 | 96,000,000 | 96,150,000 | 1281 | 1368 | -0.845221014 | |
| 6 | 96,075,000 | 96,225,000 | 1282 | 848 | -0.321001645 | |
| 6 | 96,150,000 | 96,300,000 | 1283 | 800 | 0.60078916 | |
| 6 | 96,225,000 | 96,375,000 | 1284 | 740 | 1.071045788 | ANTXR2 |
| 6 | 96,300,000 | 96,450,000 | 1285 | 577 | 1.149557628 | ANTXR2 |
| 6 | 96,375,000 | 96,525,000 | 1286 | 653 | 1.120686216 | ANTXR2 |
| 6 | 96,450,000 | 96,600,000 | 1287 | 572 | 0.419434656 | ANTXR2 |
| 6 | 96,525,000 | 96,675,000 | 1288 | 652 | 0.258472482 | ANTXR2,PRDM8 |
| 6 | 96,600,000 | 96,750,000 | 1289 | 777 | 0.658009715 | FGF5,PRDM8 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 6 | 96,675,000 | 96,825,000 | 1290 | 565 | 0.684133703 | C4orf22,FGF5 |
| 6 | 96,750,000 | 96,900,000 | 1291 | 780 | 1.136671927 | C4orf22 |
| 6 | 96,825,000 | 96,975,000 | 1292 | 1095 | 0.66643009 | C4orf22 |
| 6 | 96,900,000 | 97,050,000 | 1293 | 1024 | 0.206899514 | C4orf22 |
| 6 | 96,975,000 | 97,125,000 | 1294 | 1108 | 0.669247267 | C4orf22 |
| 6 | 97,050,000 | 97,200,000 | 1295 | 1260 | 0.613117691 | C4orf22 |
| 6 | 97,125,000 | 97,275,000 | 1296 | 1337 | 0.541059764 | C4orf22 |
| 6 | 97,200,000 | 97,350,000 | 1297 | 1139 | -0.928301914 | C4orf22 |
| 6 | 97,275,000 | 97,425,000 | 1298 | 888 | -1.34492761 | C4orf22 |
| 6 | 97,350,000 | 97,500,000 | 1299 | 695 | 0.524630135 | C4orf22 |
| 6 | 97,425,000 | 97,575,000 | 1300 | 708 | 0.801439853 | C4orf22 |
| 6 | 97,500,000 | 97,650,000 | 1301 | 718 | 0.636824676 | BMP3,C4orf22 |
| 6 | 97,575,000 | 97,725,000 | 1302 | 910 | 0.003049125 | BMP3,PRKG2 |
| 6 | 97,650,000 | 97,800,000 | 1303 | 1125 | 0.241090629 | PRKG2 |
| 6 | 97,725,000 | 97,875,000 | 1304 | 1041 | -0.269279358 | PRKG2 |
| 6 | 97,800,000 | 97,950,000 | 1305 | 1260 | -0.116562233 | |
| 6 | 97,875,000 | 98,025,000 | 1306 | 1384 | 0.611883267 | RASGEF1B |
| 6 | 97,950,000 | 98,100,000 | 1307 | 1274 | 0.106603158 | RASGEF1B |
| 6 | 98,025,000 | 98,175,000 | 1308 | 1040 | -0.028633808 | RASGEF1B |
| 6 | 98,100,000 | 98,250,000 | 1309 | 932 | 0.263680912 | |
| 6 | 98,175,000 | 98,325,000 | 1310 | 1079 | 0.015662688 | |
| 6 | 98,250,000 | 98,400,000 | 1311 | 1029 | -0.090938584 | |
| 6 | 98,325,000 | 98,475,000 | 1312 | 833 | 0.224954941 | |
| 6 | 98,400,000 | 98,550,000 | 1313 | 696 | 0.402644131 | |
| 6 | 98,475,000 | 98,625,000 | 1314 | 859 | 1.032485534 | |
| 6 | 98,550,000 | 98,700,000 | 1315 | 1031 | 1.276755494 | |
| 6 | 98,625,000 | 98,775,000 | 1316 | 782 | 1.223637056 | |
| 6 | 98,700,000 | 98,850,000 | 1317 | 937 | 1.01659558 | |
| 6 | 98,775,000 | 98,925,000 | 1318 | 1115 | 0.624673467 | HNRPD |
| 6 | 98,850,000 | 99,000,000 | 1319 | 1053 | 0.807233965 | ENOPH1,HNRPD,HNRPDL |
| 6 | 98,925,000 | 99,075,000 | 1320 | 1302 | 1.215120279 | ENOPH1,HNRPD,HNRPDL,TMEM150C |
| 6 | 99,000,000 | 99,150,000 | 1321 | 1181 | 0.49666179 | ENOPH1,TMEM150C |
| 6 | 99,075,000 | 99,225,000 | 1322 | 1133 | -0.492905225 | |
| 6 | 99,150,000 | 99,300,000 | 1323 | 1403 | 0.1379153 | SCD5 |
| 6 | 99,225,000 | 99,375,000 | 1324 | 1177 | 0.355380433 | SCD5 |
| 6 | 99,300,000 | 99,450,000 | 1325 | 700 | -0.534369494 | SCD5,SEC31A |
| 6 | 99,375,000 | 99,525,000 | 1326 | 425 | -0.532965166 | SCD5,SEC31A,THAP9 |
| 6 | 99,450,000 | 99,600,000 | 1327 | 266 | 0.372687554 | LIN54,SEC31A,THAP9 |
| 6 | 99,525,000 | 99,675,000 | 1328 | 328 | 0.455589389 | COPS4,LIN54,PLAC8 |
| 6 | 99,600,000 | 99,750,000 | 1329 | 583 | 0.616157138 | COPS4,PLAC8 |
| 6 | 99,675,000 | 99,825,000 | 1330 | 720 | 0.365824592 | COQ2,PLAC8 |
| 6 | 99,750,000 | 99,900,000 | 1331 | 1122 | 0.002604783 | COQ2,HPSE,PLAC8 |
| 6 | 99,825,000 | 99,975,000 | 1332 | 1229 | -0.68807449 | COQ2,HPSE |
| 6 | 99,900,000 | 100,050,000 | 1333 | 979 | -1.180169221 | FAM175A,MRPS18C,ENSBTAG00000018151 |
| 6 | 99,975,000 | 100,125,000 | 1334 | 1039 | -0.491633872 | AGPAT9,FAM175A,MRPS18C,ENSBTAG00000018151 |
| 6 | 100,050,000 | 100,200,000 | 1335 | 900 | 0.058927049 | AGPAT9 |
| 6 | 100,125,000 | 100,275,000 | 1336 | 862 | -0.172267319 | AGPAT9 |
| 6 | 100,200,000 | 100,350,000 | 1337 | 1137 | -0.005250275 | |
| 6 | 100,275,000 | 100,425,000 | 1338 | 1135 | 0.379196577 | |
| 6 | 100,350,000 | 100,500,000 | 1339 | 1249 | 0.722805242 | |
| 6 | 100,425,000 | 100,575,000 | 1340 | 1233 | 0.757923847 | |
| 6 | 100,500,000 | 100,650,000 | 1341 | 1083 | 0.658761676 | |
| 6 | 100,575,000 | 100,725,000 | 1342 | 1381 | 0.645942697 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 6 | 100,650,000 | 100,800,000 | 1343 | 1307 | 0.639619803 | |
| 6 | 100,725,000 | 100,875,000 | 1344 | 1053 | 0.314734537 | |
| 6 | 100,800,000 | 100,950,000 | 1345 | 1096 | -0.120994741 | |
| 6 | 100,875,000 | 101,025,000 | 1346 | 997 | -0.372391538 | |
| 6 | 100,950,000 | 101,100,000 | 1347 | 890 | -0.438370254 | NKX6-1 |
| 6 | 101,025,000 | 101,175,000 | 1348 | 1021 | -0.06761262 | NKX6-1 |
| 6 | 101,100,000 | 101,250,000 | 1349 | 1145 | -0.186505238 | CDS1 |
| 6 | 101,175,000 | 101,325,000 | 1350 | 1029 | -0.371937349 | CDS1,WDFY3 |
| 6 | 101,250,000 | 101,400,000 | 1351 | 940 | 0.272254273 | CDS1,WDFY3 |
| 6 | 101,325,000 | 101,475,000 | 1352 | 867 | 0.375590203 | WDFY3 |
| 6 | 101,400,000 | 101,550,000 | 1353 | 715 | 0.604029927 | WDFY3 |
| 6 | 101,475,000 | 101,625,000 | 1354 | 952 | 0.881806548 | WDFY3 |
| 6 | 101,550,000 | 101,700,000 | 1355 | 1064 | 0.683570488 | |
| 6 | 101,625,000 | 101,775,000 | 1356 | 982 | -0.188893206 | |
| 6 | 101,700,000 | 101,850,000 | 1357 | 1263 | 0.395065139 | |
| 6 | 101,775,000 | 101,925,000 | 1358 | 1369 | -0.022559227 | |
| 6 | 101,850,000 | 102,000,000 | 1359 | 1502 | -0.518881761 | |
| 6 | 101,925,000 | 102,075,000 | 1360 | 1758 | 0.502754364 | |
| 6 | 102,000,000 | 102,150,000 | 1361 | 1600 | -0.405807882 | |
| 6 | 102,075,000 | 102,225,000 | 1362 | 1280 | -1.355188869 | |
| 6 | 102,150,000 | 102,300,000 | 1363 | 1280 | 0.342001048 | |
| 6 | 102,225,000 | 102,375,000 | 1364 | 1322 | 0.777049514 | |
| 6 | 102,300,000 | 102,450,000 | 1365 | 1074 | 0.741306775 | |
| 6 | 102,375,000 | 102,525,000 | 1366 | 1244 | 0.7155348 | ARHGAP24 |
| 6 | 102,450,000 | 102,600,000 | 1367 | 1182 | 0.72994502 | ARHGAP24 |
| 6 | 102,525,000 | 102,675,000 | 1368 | 734 | -0.819973303 | ARHGAP24 |
| 6 | 102,600,000 | 102,750,000 | 1369 | 959 | -1.234367757 | ARHGAP24,MAPK10 |
| 6 | 102,675,000 | 102,825,000 | 1370 | 1042 | -0.312124136 | MAPK10 |
| 6 | 102,750,000 | 102,900,000 | 1371 | 1162 | 0.985446716 | MAPK10 |
| 6 | 102,825,000 | 102,975,000 | 1372 | 1522 | 1.246106754 | MAPK10 |
| 6 | 102,900,000 | 103,050,000 | 1373 | 1067 | 1.184844416 | MAPK10 |
| 6 | 102,975,000 | 103,125,000 | 1374 | 650 | 0.293160644 | MAPK10 |
| 6 | 103,050,000 | 103,200,000 | 1375 | 595 | 0.322171117 | LAMTOR5,MAPK10 |
| 6 | 103,125,000 | 103,275,000 | 1376 | 761 | 0.590621996 | LAMTOR5 |
| 6 | 103,200,000 | 103,350,000 | 1377 | 728 | 0.618543497 | |
| 6 | 103,275,000 | 103,425,000 | 1378 | 946 | 0.764219303 | PTPN13 |
| 6 | 103,350,000 | 103,500,000 | 1379 | 1083 | 0.529402938 | PTPN13 |
| 6 | 103,425,000 | 103,575,000 | 1380 | 698 | -1.381146231 | PTPN13,SLC10A6 |
| 6 | 103,500,000 | 103,650,000 | 1381 | 719 | -0.379780181 | PTPN13,SLC10A6 |
| 6 | 103,575,000 | 103,725,000 | 1382 | 744 | 0.607521814 | AFF1 |
| 6 | 103,650,000 | 103,800,000 | 1383 | 714 | 0.468405434 | AFF1 |
| 6 | 103,725,000 | 103,875,000 | 1384 | 662 | 0.421867929 | AFF1,KLHL8 |
| 6 | 103,800,000 | 103,950,000 | 1385 | 647 | 0.362832591 | AFF1,KLHL8 |
| 6 | 103,875,000 | 104,025,000 | 1386 | 605 | -0.249154154 | HSD17B11,HSD17B13 |
| 6 | 103,950,000 | 104,100,000 | 1387 | 856 | 0.322399884 | HSD17B11,HSD17B13,NUDT9 |
| 6 | 104,025,000 | 104,175,000 | 1388 | 756 | 0.831380202 | HSD17B11,NUDT9,SPARCL1 |
| 6 | 104,100,000 | 104,250,000 | 1389 | 411 | 0.171322142 | NUDT9,SPARCL1 |
| 6 | 104,175,000 | 104,325,000 | 1390 | 510 | -1.127702966 | DMP1,DSPP,SPARCL1 |
| 6 | 104,250,000 | 104,400,000 | 1391 | 964 | -1.25366219 | DMP1,DSPP,ENSBTAG00000017829 |
| 6 | 104,325,000 | 104,475,000 | 1392 | 1360 | -0.138270707 | ENSBTAG00000006508,ENSBTAG00000017829 |
| 6 | 104,400,000 | 104,550,000 | 1393 | 1297 | 0.256922356 | ENSBTAG00000006508 |
| 6 | 104,475,000 | 104,625,000 | 1394 | 869 | 0.096240655 | PPP2R2C |
| 6 | 104,550,000 | 104,700,000 | 1395 | 534 | -0.828354998 | PPP2R2C,WFS1 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------|
| 6 | 104,625,000 | 104,775,000 | 1396 | 843 | -0.813316773 | PPP2R2C,WFS1 |
| 6 | 104,700,000 | 104,850,000 | 1397 | 990 | -0.362226337 | JAKMIP1 |
| 6 | 104,775,000 | 104,925,000 | 1398 | 993 | 0.34138824 | JAKMIP1 |
| 6 | 104,850,000 | 105,000,000 | 1399 | 1162 | -0.072398336 | C4orf50,JAKMIP1 |
| 6 | 104,925,000 | 105,075,000 | 1400 | 1414 | 0.351322628 | C4orf50,JAKMIP1 |
| 6 | 105,000,000 | 105,150,000 | 1401 | 1526 | 0.480014363 | C4orf50,CRMP1 |
| 6 | 105,075,000 | 105,225,000 | 1402 | 1342 | 0.009194444 | CRMP1,EVC |
| 6 | 105,150,000 | 105,300,000 | 1403 | 1397 | -0.464086341 | CRMP1,EVC,EVC2 |
| 6 | 105,225,000 | 105,375,000 | 1404 | 1356 | -1.083700764 | EVC,EVC2 |
| 6 | 105,300,000 | 105,450,000 | 1405 | 1187 | -0.095811489 | EVC2 |
| 6 | 105,375,000 | 105,525,000 | 1406 | 1182 | 0.810102057 | EVC2,STK32B |
| 6 | 105,450,000 | 105,600,000 | 1407 | 1293 | -0.322224537 | EVC2,STK32B |
| 6 | 105,525,000 | 105,675,000 | 1408 | 1363 | -0.29914805 | STK32B |
| 6 | 105,600,000 | 105,750,000 | 1409 | 1265 | 0.998070714 | |
| 6 | 105,675,000 | 105,825,000 | 1410 | 1222 | 0.826171274 | |
| 6 | 105,750,000 | 105,900,000 | 1411 | 1290 | 0.836022266 | |
| 6 | 105,825,000 | 105,975,000 | 1412 | 1484 | 0.986885561 | CYTL1 |
| 6 | 105,900,000 | 106,050,000 | 1413 | 1479 | 0.711155762 | CYTL1 |
| 6 | 105,975,000 | 106,125,000 | 1414 | 1296 | 0.310746293 | MSX1 |
| 6 | 106,050,000 | 106,200,000 | 1415 | 1264 | 0.321823079 | MSX1 |
| 6 | 106,125,000 | 106,275,000 | 1416 | 1149 | 0.143275993 | |
| 6 | 106,200,000 | 106,350,000 | 1417 | 834 | 0.200320817 | |
| 6 | 106,275,000 | 106,425,000 | 1418 | 630 | 0.447354007 | STX18 |
| 6 | 106,350,000 | 106,500,000 | 1419 | 696 | -0.255204711 | ACOX3,NSG1,STX18 |
| 6 | 106,425,000 | 106,575,000 | 1420 | 709 | -0.744244975 | ACOX3,NSG1,STX18,TRMT44 |
| 6 | 106,500,000 | 106,650,000 | 1421 | 755 | 0.029821941 | ACOX3,CPZ,NSG1,TRMT44 |
| 6 | 106,575,000 | 106,725,000 | 1422 | 1255 | 0.760243137 | CPZ,NSG1,TRMT44 |
| 6 | 106,650,000 | 106,800,000 | 1423 | 1288 | 0.559473244 | CPZ,NSG1 |
| 6 | 106,725,000 | 106,875,000 | 1424 | 1025 | 0.102033949 | HMX1,NSG1 |
| 6 | 106,800,000 | 106,950,000 | 1425 | 1659 | 0.3137109 | HMX1,NSG1 |
| 6 | 106,875,000 | 107,025,000 | 1426 | 2061 | 0.186640321 | NSG1 |
| 6 | 106,950,000 | 107,100,000 | 1427 | 1823 | 0.266380163 | NSG1 |
| 6 | 107,025,000 | 107,175,000 | 1428 | 1896 | 0.341126321 | NSG1 |
| 6 | 107,100,000 | 107,250,000 | 1429 | 1864 | 0.389569827 | DOK7,LRPAP1,NSG1 |
| 6 | 107,175,000 | 107,325,000 | 1430 | 1282 | 0.695120306 | DOK7,HGFAC,LRPAP1,NSG1,RGS12 |
| 6 | 107,250,000 | 107,400,000 | 1431 | 891 | 0.505070462 | DOK7,HGFAC,NSG1,RGS12 |
| 6 | 107,325,000 | 107,475,000 | 1432 | 922 | -0.57231825 | LYAR,NSG1,RGS12,ZBTB49 |
| 6 | 107,400,000 | 107,550,000 | 1433 | 1233 | -0.500218987 | LYAR,OTOP1,TMEM128,ZBTB49 |
| 6 | 107,475,000 | 107,625,000 | 1434 | 1256 | 0.19176107 | DBDR,OTOP1,TMEM128 |
| 6 | 107,550,000 | 107,700,000 | 1435 | 1027 | 0.539840174 | DBDR,HTT,MSANTD1 |
| 6 | 107,625,000 | 107,775,000 | 1436 | 1062 | 0.519299676 | HTT,MSANTD1 |
| 6 | 107,700,000 | 107,850,000 | 1437 | 1047 | 0.547056557 | GRK4,HTT |
| 6 | 107,775,000 | 107,925,000 | 1438 | 1153 | 0.544873723 | GRK4,HTT,MFSD10,NOP14 |
| 6 | 107,850,000 | 108,000,000 | 1439 | 1432 | 0.322296993 | ADD1,GRK4,MFSD10,NOP14 |
| 6 | 107,925,000 | 108,075,000 | 1440 | 1254 | 0.404940168 | ADD1,MFSD10,SH3BP2 |
| 6 | 108,000,000 | 108,150,000 | 1441 | 1096 | 0.842873358 | ADD1,FAM193A,SH3BP2,TNIP2 |
| 6 | 108,075,000 | 108,225,000 | 1442 | 1111 | 0.044620027 | FAM193A,TNIP2 |
| 6 | 108,150,000 | 108,300,000 | 1443 | 957 | -1.873159988 | FAM193A |
| 6 | 108,225,000 | 108,375,000 | 1444 | 824 | -1.610405408 | RNF4,ENSBTAG00000047977 |
| 6 | 108,300,000 | 108,450,000 | 1445 | 1065 | 0.060340893 | RNF4,ZFYVE28,ENSBTAG00000047977 |
| 6 | 108,375,000 | 108,525,000 | 1446 | 1155 | 0.819645124 | HAUS3,MXD4,ZFYVE28 |
| 6 | 108,450,000 | 108,600,000 | 1447 | 1376 | 1.32505231 | HAUS3,MXD4,POLN,ZFYVE28 |
| 6 | 108,525,000 | 108,675,000 | 1448 | 1966 | 1.195363696 | POLN |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 6 | 108,600,000 | 108,750,000 | 1449 | 1535 | 0.93336399 | NAT8L,PIGG,POLN |
| 6 | 108,675,000 | 108,825,000 | 1450 | 904 | 0.868330794 | NAT8L,PDE6B,PIGG,POLN |
| 6 | 108,750,000 | 108,900,000 | 1451 | 940 | 0.203161678 | ATP5I,MFSD7,PDE6B,PIGG |
| 6 | 108,825,000 | 108,975,000 | 1452 | 1106 | 0.351226347 | ATP5I,MFSD7,PCGF3,PDE6B,ENSBTAG00000048119 |
| 6 | 108,900,000 | 109,050,000 | 1453 | 943 | 0.708151925 | GAK,PCGF3,TMEM175,ENSBTAG00000048119 |
| 6 | 108,975,000 | 109,125,000 | 1454 | 753 | 0.393253653 | DGKQ,GAK,IDUA,SLC26A1,TMEM175 |
| 6 | 109,050,000 | 109,200,000 | 1455 | 765 | 0.57069164 | DGKQ,FGFRL1,IDUA,SLC26A1,TMEM175,ENSBTAG0000002247 |
| 6 | 109,125,000 | 109,275,000 | 1456 | 901 | 0.863682324 | CTBP1,FGFRL1,SPON2,ENSBTAG0000002247 |
| 6 | 109,200,000 | 109,350,000 | 1457 | 883 | 0.933999867 | CTBP1,MAEA,SPON2,ENSBTAG0000002247 |
| 6 | 109,275,000 | 109,425,000 | 1458 | 686 | -0.000883655 | MAEA,UVSSA |
| 6 | 109,350,000 | 109,500,000 | 1459 | 672 | -0.34703335 | UVSSA |
| 6 | 109,425,000 | 109,575,000 | 1460 | 608 | 0.817306013 | |
| 6 | 109,500,000 | 109,650,000 | 1461 | 477 | -0.13891891 | SLBP,TACC3,TMEM129 |
| 6 | 109,575,000 | 109,725,000 | 1462 | 448 | -0.044978222 | FGFR3,LETM1,SLBP,TACC3,TMEM129 |
| 6 | 109,650,000 | 109,800,000 | 1463 | 717 | 0.926715514 | FGFR3,LETM1,WHSC1 |
| 6 | 109,725,000 | 109,875,000 | 1464 | 949 | 0.93753483 | C4orf48,LETM1,WHSC1,WHSC2 |
| 6 | 109,800,000 | 109,950,000 | 1465 | 989 | 0.791585231 | C4orf48,SLC2A9,WHSC1,WHSC2 |
| 6 | 109,875,000 | 110,025,000 | 1466 | 1049 | 0.853252249 | SLC2A9 |
| 6 | 109,950,000 | 110,100,000 | 1467 | 1241 | 0.499366106 | SLC2A9 |
| 6 | 110,025,000 | 110,175,000 | 1468 | 1271 | 0.18405457 | SLC2A9,WDR1 |
| 6 | 110,100,000 | 110,250,000 | 1469 | 1178 | 0.516951567 | WDR1 |
| 6 | 110,175,000 | 110,325,000 | 1470 | 1531 | 0.081868633 | WDR1 |
| 6 | 110,250,000 | 110,400,000 | 1471 | 1563 | -0.625774913 | CLNK,ZNF518B |
| 6 | 110,325,000 | 110,475,000 | 1472 | 1598 | -0.315644615 | CLNK,ZNF518B |
| 6 | 110,400,000 | 110,550,000 | 1473 | 1830 | -0.003386417 | CLNK |
| 6 | 110,475,000 | 110,625,000 | 1474 | 1438 | -0.22129551 | CLNK |
| 6 | 110,550,000 | 110,700,000 | 1475 | 994 | -0.395276653 | CLNK |
| 6 | 110,625,000 | 110,775,000 | 1476 | 1190 | -0.21341014 | |
| 6 | 110,700,000 | 110,850,000 | 1477 | 1156 | 0.163606319 | |
| 6 | 110,775,000 | 110,925,000 | 1478 | 1155 | -0.051201994 | |
| 6 | 110,850,000 | 111,000,000 | 1479 | 1364 | -0.118521209 | |
| 6 | 110,925,000 | 111,075,000 | 1480 | 1045 | -0.774082444 | |
| 6 | 111,000,000 | 111,150,000 | 1481 | 1044 | -0.293678469 | |
| 6 | 111,075,000 | 111,225,000 | 1482 | 1493 | 0.656854946 | |
| 6 | 111,150,000 | 111,300,000 | 1483 | 1449 | 0.666500087 | |
| 6 | 111,225,000 | 111,375,000 | 1484 | 1156 | 0.897191934 | HS3ST1 |
| 6 | 111,300,000 | 111,450,000 | 1485 | 1017 | 0.749606779 | HS3ST1 |
| 6 | 111,375,000 | 111,525,000 | 1486 | 735 | 0.276931714 | HS3ST1 |
| 6 | 111,450,000 | 111,600,000 | 1487 | 735 | -0.317112273 | |
| 6 | 111,525,000 | 111,675,000 | 1488 | 1217 | 0.2471312 | |
| 6 | 111,600,000 | 111,750,000 | 1489 | 1389 | 0.711998931 | |
| 6 | 111,675,000 | 111,825,000 | 1490 | 1282 | 0.952794238 | |
| 6 | 111,750,000 | 111,900,000 | 1491 | 1187 | -0.489130736 | |
| 6 | 111,825,000 | 111,975,000 | 1492 | 856 | -0.891360843 | |
| 6 | 111,900,000 | 112,050,000 | 1493 | 785 | 0.734115859 | |
| 6 | 111,975,000 | 112,125,000 | 1494 | 997 | 0.511479333 | |
| 6 | 112,050,000 | 112,200,000 | 1495 | 1279 | 0.406650007 | |
| 6 | 112,125,000 | 112,275,000 | 1496 | 1296 | 0.328030944 | |
| 6 | 112,200,000 | 112,350,000 | 1497 | 1243 | -0.285811974 | |
| 6 | 112,275,000 | 112,425,000 | 1498 | 1232 | -0.770749289 | |
| 6 | 112,350,000 | 112,500,000 | 1499 | 1155 | -0.61759021 | |
| 6 | 112,425,000 | 112,575,000 | 1500 | 1479 | 0.294702259 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--------------------------|
| 6 | 112,500,000 | 112,650,000 | 1501 | 1753 | 1.095569489 | |
| 6 | 112,575,000 | 112,725,000 | 1502 | 1543 | 1.096431082 | |
| 6 | 112,650,000 | 112,800,000 | 1503 | 916 | 0.444158754 | |
| 6 | 112,725,000 | 112,875,000 | 1504 | 483 | -1.030936737 | |
| 6 | 112,800,000 | 112,950,000 | 1505 | 870 | 0.608675769 | |
| 6 | 112,875,000 | 113,025,000 | 1506 | 914 | 0.700051293 | |
| 6 | 112,950,000 | 113,100,000 | 1507 | 513 | -0.165899675 | |
| 6 | 113,025,000 | 113,175,000 | 1508 | 658 | 0.057232662 | |
| 6 | 113,100,000 | 113,250,000 | 1509 | 709 | 0.4451591 | |
| 6 | 113,175,000 | 113,325,000 | 1510 | 712 | 0.805846714 | |
| 6 | 113,250,000 | 113,400,000 | 1511 | 885 | 0.709878459 | ENSBTAG00000000872 |
| 6 | 113,325,000 | 113,475,000 | 1512 | 1021 | 0.937880774 | RAB28,ENSBTAG00000000872 |
| 6 | 113,400,000 | 113,550,000 | 1513 | 838 | 0.610926978 | RAB28 |
| 6 | 113,475,000 | 113,625,000 | 1514 | 537 | -0.40087114 | NKX3-2,RAB28 |
| 6 | 113,550,000 | 113,700,000 | 1515 | 583 | -1.989686925 | BOD1L,NKX3-2,RAB28 |
| 6 | 113,625,000 | 113,775,000 | 1516 | 986 | -0.918550923 | BOD1L,NKX3-2 |
| 6 | 113,700,000 | 113,850,000 | 1517 | 1300 | -1.054797938 | BOD1L |
| 6 | 113,775,000 | 113,925,000 | 1518 | 1163 | -2.236308578 | |
| 6 | 113,850,000 | 114,000,000 | 1519 | 1034 | -0.964161426 | |
| 6 | 113,925,000 | 114,075,000 | 1520 | 1055 | 0.373985953 | |
| 6 | 114,000,000 | 114,150,000 | 1521 | 993 | 0.576106777 | |
| 6 | 114,075,000 | 114,225,000 | 1522 | 844 | 0.12577594 | |
| 6 | 114,150,000 | 114,300,000 | 1523 | 678 | -0.414231624 | |
| 6 | 114,225,000 | 114,375,000 | 1524 | 621 | -0.404174198 | |
| 6 | 114,300,000 | 114,450,000 | 1525 | 637 | -0.521333835 | |
| 6 | 114,375,000 | 114,525,000 | 1526 | 748 | 0.296180979 | |
| 6 | 114,450,000 | 114,600,000 | 1527 | 1064 | 0.556798954 | |
| 6 | 114,525,000 | 114,675,000 | 1528 | 1116 | 0.653462938 | |
| 6 | 114,600,000 | 114,750,000 | 1529 | 737 | 0.845238965 | |
| 6 | 114,675,000 | 114,825,000 | 1530 | 784 | -0.373191221 | |
| 6 | 114,750,000 | 114,900,000 | 1531 | 778 | -0.807683721 | |
| 6 | 114,825,000 | 114,975,000 | 1532 | 444 | -0.078859578 | CPEB2 |
| 6 | 114,900,000 | 115,050,000 | 1533 | 528 | 0.493986942 | CPEB2 |
| 6 | 114,975,000 | 115,125,000 | 1534 | 955 | 0.803357842 | CPEB2 |
| 6 | 115,050,000 | 115,200,000 | 1535 | 1316 | 1.053166725 | |
| 6 | 115,125,000 | 115,275,000 | 1536 | 1282 | 0.805899278 | |
| 6 | 115,200,000 | 115,350,000 | 1537 | 962 | 0.411043673 | C1QTNF7 |
| 6 | 115,275,000 | 115,425,000 | 1538 | 1004 | 0.562040547 | C1QTNF7 |
| 6 | 115,350,000 | 115,500,000 | 1539 | 1455 | 1.011794381 | C1QTNF7,CC2D2A |
| 6 | 115,425,000 | 115,575,000 | 1540 | 1288 | 1.225305894 | CC2D2A,FBXL5 |
| 6 | 115,500,000 | 115,650,000 | 1541 | 974 | 0.637270897 | CC2D2A,FBXL5 |
| 6 | 115,575,000 | 115,725,000 | 1542 | 917 | -0.338373162 | BST1,FBXL5 |
| 6 | 115,650,000 | 115,800,000 | 1543 | 1070 | -0.045303573 | BST1 |
| 6 | 115,725,000 | 115,875,000 | 1544 | 1767 | 0.255600376 | CD38 |
| 6 | 115,800,000 | 115,950,000 | 1545 | 1845 | -0.449610171 | CD38,FGFBP1 |
| 6 | 115,875,000 | 116,025,000 | 1546 | 2042 | 0.322372662 | FGFBP1,PROM1 |
| 6 | 115,950,000 | 116,100,000 | 1547 | 1990 | 0.776411388 | PROM1 |
| 6 | 116,025,000 | 116,175,000 | 1548 | 1415 | 0.675281024 | PROM1 |
| 6 | 116,100,000 | 116,250,000 | 1549 | 1281 | 0.689353303 | PROM1,TAPT1 |
| 6 | 116,175,000 | 116,325,000 | 1550 | 1160 | 0.351143709 | TAPT1 |
| 6 | 116,250,000 | 116,400,000 | 1551 | 1157 | 0.650536466 | |
| 6 | 116,325,000 | 116,475,000 | 1552 | 1289 | 0.340755922 | |
| 6 | 116,400,000 | 116,550,000 | 1553 | 1714 | -0.097399603 | LDB2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 6 | 116,475,000 | 116,625,000 | 1554 | 1938 | 0.084749846 | LDB2 |
| 6 | 116,550,000 | 116,700,000 | 1555 | 1859 | 0.163986989 | LDB2 |
| 6 | 116,625,000 | 116,775,000 | 1556 | 1867 | 0.309205892 | LDB2 |
| 6 | 116,700,000 | 116,850,000 | 1557 | 1745 | -0.054892949 | LDB2 |
| 6 | 116,775,000 | 116,925,000 | 1558 | 1689 | -0.045074597 | LDB2 |
| 6 | 116,850,000 | 117,000,000 | 1559 | 1863 | 0.724614754 | LDB2,ENSBTAG00000045917 |
| 6 | 116,925,000 | 117,075,000 | 1560 | 1774 | 0.514877698 | LDB2,ENSBTAG00000045917 |
| 6 | 117,000,000 | 117,150,000 | 1561 | 2036 | 0.151604849 | |
| 6 | 117,075,000 | 117,225,000 | 1562 | 2109 | 0.393258217 | |
| 6 | 117,150,000 | 117,300,000 | 1563 | 1718 | 0.638672244 | ENSBTAG00000039645 |
| 6 | 117,225,000 | 117,375,000 | 1564 | 1416 | 0.34273198 | ENSBTAG00000039645 |
| 6 | 117,300,000 | 117,450,000 | 1565 | 1079 | -0.37147189 | |
| 6 | 117,375,000 | 117,525,000 | 1566 | 999 | -0.297641047 | |
| 6 | 117,450,000 | 117,600,000 | 1567 | 1577 | 1.047588048 | |
| 6 | 117,525,000 | 117,675,000 | 1568 | 1921 | 1.156064949 | |
| 6 | 117,600,000 | 117,750,000 | 1569 | 1516 | 0.86070623 | CLRN2,QDPR |
| 6 | 117,675,000 | 117,825,000 | 1570 | 1451 | 0.815052096 | CLRN2,QDPR,ENSBTAG00000019584 |
| 6 | 117,750,000 | 117,900,000 | 1571 | 1422 | 0.938795652 | CLRN2,ENSBTAG00000019584,ENSBTAG00000027825 |
| 6 | 117,825,000 | 117,975,000 | 1572 | 1113 | 0.844571172 | ENSBTAG00000019584,ENSBTAG00000027825 |
| 6 | 117,900,000 | 118,050,000 | 1573 | 1192 | 0.658471329 | CNO,MRFAP1,ENSBTAG00000027825 |
| 6 | 117,975,000 | 118,125,000 | 1574 | 1469 | 0.753335627 | CNO,MRFAP1 |
| 6 | 118,050,000 | 118,200,000 | 1575 | 1232 | 0.710250164 | KIAA0232 |
| 6 | 118,125,000 | 118,275,000 | 1576 | 1108 | -0.896467651 | KIAA0232,TBC1D14 |
| 6 | 118,200,000 | 118,350,000 | 1577 | 1079 | -2.037376304 | CCDC96,GRPEL1,TBC1D14,ENSBTAG00000010185 |
| 6 | 118,275,000 | 118,425,000 | 1578 | 1096 | -1.244458733 | CCDC96,GRPEL1,TBC1D14,ENSBTAG00000010185 |
| 6 | 118,350,000 | 118,500,000 | 1579 | 1383 | -0.147115551 | |
| 6 | 118,425,000 | 118,575,000 | 1580 | 1524 | -0.663965569 | |
| 6 | 118,500,000 | 118,650,000 | 1581 | 1908 | -1.308012526 | |
| 6 | 118,575,000 | 118,725,000 | 1582 | 2233 | -0.246545056 | PSAPL1 |
| 6 | 118,650,000 | 118,800,000 | 1583 | 2100 | 0.769883742 | PSAPL1 |
| 6 | 118,725,000 | 118,875,000 | 1584 | 2050 | 0.996312516 | |
| 6 | 118,800,000 | 118,950,000 | 1585 | 1777 | 0.954853159 | AFAP1,SORCS2 |
| 6 | 118,875,000 | 119,025,000 | 1586 | 1036 | 0.261161285 | AFAP1,SORCS2 |
| 6 | 118,950,000 | 119,100,000 | 1587 | 783 | 0.275187501 | AFAP1 |
| 6 | 119,025,000 | 119,175,000 | 1588 | 761 | 0.202563017 | ABLIM2,AFAP1 |
| 6 | 119,100,000 | 119,250,000 | 1589 | 1129 | -0.518256784 | ABLIM2 |
| 6 | 119,175,000 | 119,325,000 | 1590 | 1575 | -1.456309111 | ABLIM2,SH3TC1 |
| 6 | 119,250,000 | 119,400,000 | 1591 | 1456 | -1.300338426 | HTRA3,SH3TC1 |
| 6 | 119,325,000 | 119,458,736 | 1592 | 970 | 0.133202812 | HTRA3,SH3TC1 |
| 7 | 0 | 150,000 | 1 | 659 | 0.517244876 | |
| 7 | 75,000 | 225,000 | 2 | 588 | 0.287196733 | ENSBTAG00000040610 |
| 7 | 150,000 | 300,000 | 3 | 754 | 0.472919052 | ENSBTAG00000037602,ENSBTAG00000040610 |
| 7 | 225,000 | 375,000 | 4 | 1198 | 0.713693581 | ENSBTAG00000037602 |
| 7 | 300,000 | 450,000 | 5 | 1086 | 0.552658768 | FLT4 |
| 7 | 375,000 | 525,000 | 6 | 628 | 0.508946396 | CNOT6,FLT4 |
| 7 | 450,000 | 600,000 | 7 | 425 | 0.239799286 | CNOT6 |
| 7 | 525,000 | 675,000 | 8 | 710 | 0.903326674 | CNOT6 |
| 7 | 600,000 | 750,000 | 9 | 1163 | -0.070126599 | |
| 7 | 675,000 | 825,000 | 10 | 1177 | -0.300809872 | GFPT2 |
| 7 | 750,000 | 900,000 | 11 | 931 | 0.702619465 | GFPT2,MAPK9 |
| 7 | 825,000 | 975,000 | 12 | 1089 | 0.981793735 | MAPK9,ENSBTAG00000047695 |
| 7 | 900,000 | 1,050,000 | 13 | 1224 | 1.006052493 | RASGEF1C,ENSBTAG00000047695 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|--|
| 7 | 975,000 | 1,125,000 | 14 | 1045 | 0.527551315 | RASGEF1C,RNF130 |
| 7 | 1,050,000 | 1,200,000 | 15 | 865 | -0.225049589 | RNF130 |
| 7 | 1,125,000 | 1,275,000 | 16 | 956 | 0.265598485 | RNF130,TBC1D9B |
| 7 | 1,200,000 | 1,350,000 | 17 | 1278 | 0.954013747 | C7H5orf45,RNF130,SQSTM1,TBC1D9B |
| 7 | 1,275,000 | 1,425,000 | 18 | 1077 | 0.996642522 | C7H5orf45,LTC4S,MGAT4B,SQSTM1,TBC1D9B |
| 7 | 1,350,000 | 1,500,000 | 19 | 618 | -0.426541761 | LTC4S,MAML1,MGAT4B |
| 7 | 1,425,000 | 1,575,000 | 20 | 480 | -0.466191874 | CANX,CBY3,MAML1 |
| 7 | 1,500,000 | 1,650,000 | 21 | 531 | 0.899671377 | CANX,CBY3,HNRNPH1,RUFY1 |
| 7 | 1,575,000 | 1,725,000 | 22 | 704 | 0.960385106 | HNRNPH1,RUFY1 |
| 7 | 1,650,000 | 1,800,000 | 23 | 981 | 0.328058271 | RUFY1 |
| 7 | 1,725,000 | 1,875,000 | 24 | 1121 | 0.087989011 | |
| 7 | 1,800,000 | 1,950,000 | 25 | 1292 | 0.616773367 | |
| 7 | 1,875,000 | 2,025,000 | 26 | 1544 | 0.849315245 | ADAMTS2 |
| 7 | 1,950,000 | 2,100,000 | 27 | 1462 | 0.783115869 | ADAMTS2 |
| 7 | 2,025,000 | 2,175,000 | 28 | 1271 | 0.868519882 | ADAMTS2 |
| 7 | 2,100,000 | 2,250,000 | 29 | 1133 | 0.885274765 | ADAMTS2,ZNF354C,ZNF879 |
| 7 | 2,175,000 | 2,325,000 | 30 | 1335 | 0.62899887 | GRM6,ZNF354C,ZNF879,ENSBTAG00000034973 |
| 7 | 2,250,000 | 2,400,000 | 31 | 1495 | 0.12447712 | GRM6,ZFP2,ZNF454,ZNF879,ENSBTAG00000034973 |
| 7 | 2,325,000 | 2,475,000 | 32 | 1137 | -0.90298383 | RNF187,ZFP2,ZNF454 |
| 7 | 2,400,000 | 2,550,000 | 33 | 899 | -0.337794719 | HIST3H2A,HIST3H2BB,RNF187,TRIM11,TRIM17 |
| 7 | 2,475,000 | 2,625,000 | 34 | 1139 | 0.5008185 | HIST3H2A,HIST3H2BB,MGC166429,TRIM11,TRIM17,ENSBTAG00000001604 |
| 7 | 2,550,000 | 2,700,000 | 35 | 1535 | 0.787922223 | MGC166429,TRIM11,ENSBTAG00000001604 |
| 7 | 2,625,000 | 2,775,000 | 36 | 1942 | 0.828407385 | |
| 7 | 2,700,000 | 2,850,000 | 37 | 2026 | 0.535592042 | |
| 7 | 2,775,000 | 2,925,000 | 38 | 1374 | 0.286875012 | ARF1,GJC2,GUK1,IBA57,MMTAG2,MRPL55 |
| 7 | 2,850,000 | 3,000,000 | 39 | 924 | 0.69679775 | ARF1,GJC2,GUK1,IBA57,MMTAG2,MRPL55,WNT3A |
| 7 | 2,925,000 | 3,075,000 | 40 | 1043 | 0.813096128 | ARF1,WNT3A,WNT9A |
| 7 | 3,000,000 | 3,150,000 | 41 | 1408 | 0.516475728 | WNT9A,ENSBTAG00000011216 |
| 7 | 3,075,000 | 3,225,000 | 42 | 1574 | 0.084447634 | PRSS38,ENSBTAG00000011216 |
| 7 | 3,150,000 | 3,300,000 | 43 | 1287 | 0.046327674 | PRSS38,ENSBTAG00000011216 |
| 7 | 3,225,000 | 3,375,000 | 44 | 1288 | 0.200122635 | SNAP47 |
| 7 | 3,300,000 | 3,450,000 | 45 | 1344 | 0.047651852 | JMJD4,SNAP47,ZNF354B |
| 7 | 3,375,000 | 3,525,000 | 46 | 1059 | -0.581704382 | JMJD4,SNAP47,ZNF354B |
| 7 | 3,450,000 | 3,600,000 | 47 | 1052 | -0.2755281 | ATP13A1 |
| 7 | 3,525,000 | 3,675,000 | 48 | 1192 | 0.381681143 | ATP13A1,GMIP,LPAR2,PBX4 |
| 7 | 3,600,000 | 3,750,000 | 49 | 893 | 0.585974876 | ATP13A1,CILP2,GATAD2A,GMIP,LPAR2,NDUFA13,PBX4,TSSK6,YJEFN3 |
| 7 | 3,675,000 | 3,825,000 | 50 | 751 | 0.895893678 | CILP2,GATAD2A,NDUFA13,PBX4,TSSK6,YJEFN3 |
| 7 | 3,750,000 | 3,900,000 | 51 | 820 | 0.7248668 | GATAD2A,MAU2,SF4 |
| 7 | 3,825,000 | 3,975,000 | 52 | 998 | -0.295375802 | GATAD2A,HAPLN4,MAU2,NCAN,SF4,TM6SF2 |
| 7 | 3,900,000 | 4,050,000 | 53 | 1241 | -0.446355942 | HAPLN4,MEF2B,MEF2BNB,NCAN,NR2C2AP,RFXANK,SLC25A42,SUGP2,TMEM161A |
| 7 | 3,975,000 | 4,125,000 | 54 | 1032 | 0.349006154 | ARMC6,MEF2B,MEF2BNB,NCAN,NR2C2AP,RFXANK,SLC25A42,SUGP2,TMEM161A |
| 7 | 4,050,000 | 4,200,000 | 55 | 1130 | -0.954162963 | ARMC6,SLC25A42,SUGP2 |
| 7 | 4,125,000 | 4,275,000 | 56 | 1148 | -1.279348581 | COPE,DDX49,HOMER3,LASS1,SUGP2,UPF1,ENSBTAG0000020923 |
| 7 | 4,200,000 | 4,350,000 | 57 | 1035 | -0.508351254 | COPE,DDX49,HOMER3,LASS1,UPF1,ENSBTAG000000020923 |
| 7 | 4,275,000 | 4,425,000 | 58 | 1084 | -0.543007677 | COMP,CRTC1,UPF1 |
| 7 | 4,350,000 | 4,500,000 | 59 | 941 | -0.048261541 | COMP,CRTC1,KLHL26 |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|--|
| 7 | 4,425,000 | 4,575,000 | 60 | 781 | 0.292593604 | C19orf60,CRLF1,CRTC1,FKBP8,KLHL26,KXD1,TMEM59L,UBA52 |
| 7 | 4,500,000 | 4,650,000 | 61 | 644 | 0.642190785 | C19orf60,CRLF1,ELL,FKBP8,KXD1,TMEM59L,UBA52 |
| 7 | 4,575,000 | 4,725,000 | 62 | 822 | 0.671061906 | ELL,GDF15,ISYNA1,LRRC25,SSBP4 |
| 7 | 4,650,000 | 4,800,000 | 63 | 1114 | 0.943877832 | ELL,GDF15,ISYNA1,LRRC25,PGPEP1,SSBP4 |
| 7 | 4,725,000 | 4,875,000 | 64 | 1031 | 1.130376657 | CIST1,LSM4,PGPEP1 |
| 7 | 4,800,000 | 4,950,000 | 65 | 1012 | 0.995947473 | CIST1,KIAA1683,LSM4,PDE4C,RAB3A |
| 7 | 4,875,000 | 5,025,000 | 66 | 1344 | 0.758584616 | CIST1,IFI30,KIAA1683,MAST3,MPV17L2,PDE4C,PIK3R2,RAB3A |
| 7 | 4,950,000 | 5,100,000 | 67 | 1252 | 0.206257495 | IFI30,IL12RB1,MAST3,MPV17L2,PIK3R2,RAB3A |
| 7 | 5,025,000 | 5,175,000 | 68 | 722 | -0.08621941 | ARRDC2,CCDC124,IL12RB1,KCNN1,MAST3 |
| 7 | 5,100,000 | 5,250,000 | 69 | 455 | -0.205255498 | ARRDC2,CCDC124,JAK3,KCNN1,RPL18A,SLC5A5 |
| 7 | 5,175,000 | 5,325,000 | 70 | 691 | 0.240664996 | B3GNT3,FCHO1,INSL3,JAK3,RPL18A,SLC5A5 |
| 7 | 5,250,000 | 5,400,000 | 71 | 1040 | 0.692181314 | B3GNT3,FCHO1,INSL3,MAP1S,UNC13A |
| 7 | 5,325,000 | 5,475,000 | 72 | 1180 | 0.88663246 | COLGALT1,MAP1S,UNC13A |
| 7 | 5,400,000 | 5,550,000 | 73 | 1192 | 0.883931623 | COLGALT1,FAM129C,PGLS,SLC27A1,UNC13A |
| 7 | 5,475,000 | 5,625,000 | 74 | 1275 | 0.494654703 | COLGALT1,FAM129C,MVB12A,NXNL1,PGLS,SLC27A1,ENSBTAG00000025767 |
| 7 | 5,550,000 | 5,700,000 | 75 | 1395 | -0.023540037 | MVB12A,NXNL1,PLVAP,SLC27A1,ENSBTAG00000008021,ENSBTAG00000025767,ENSBTAG00000045588 |
| 7 | 5,625,000 | 5,775,000 | 76 | 1027 | -0.144101212 | ABHD8,ANKLE1,ANO8,BABAM1,DDA1,GTPBP3,MRPL34,PLVAP,USHBP1,ENSBTAG0000008021,ENSBTAG0000045588 |
| 7 | 5,700,000 | 5,850,000 | 77 | 887 | 0.675663096 | ABHD8,ANKLE1,ANO8,BABAM1,DDA1,GTPBP3,MRPL34,MYO9B,NR2F6,PLVAP,USE1,USHBP1,ENSBTAG0000011135 |
| 7 | 5,775,000 | 5,925,000 | 78 | 1335 | 0.718057266 | HICE1,MYO9B,NR2F6,USE1,USHBP1,ENSBTAG00000011135 |
| 7 | 5,850,000 | 6,000,000 | 79 | 1588 | 0.267213257 | CPAMD8,HICE1,MYO9B |
| 7 | 5,925,000 | 6,075,000 | 80 | 1902 | 0.34669963 | CPAMD8,HICE1 |
| 7 | 6,000,000 | 6,150,000 | 81 | 1949 | 0.260650077 | CPAMD8,F2RL3,SIN3B |
| 7 | 6,075,000 | 6,225,000 | 82 | 1475 | -0.045664361 | CPAMD8,F2RL3,NWD1,SIN3B |
| 7 | 6,150,000 | 6,300,000 | 83 | 1409 | -0.011541922 | NWD1,TMEM38A |
| 7 | 6,225,000 | 6,375,000 | 84 | 1326 | -0.062353429 | MED26,TMEM38A,ENSBTAG00000013613 |
| 7 | 6,300,000 | 6,450,000 | 85 | 933 | 0.37689269 | C19orf44,CHERP,MED26,SLC35E1,TMEM38A,ENSBTAG00000013613,ENSBTAG00000027878 |
| 7 | 6,375,000 | 6,525,000 | 86 | 1214 | 0.297852261 | C19orf44,CALR3,CHERP,EP515L1,MED26,SLC35E1,ENSBTAG00000027878 |
| 7 | 6,450,000 | 6,600,000 | 87 | 1675 | 0.597517883 | CALR3,EP515L1 |
| 7 | 6,525,000 | 6,675,000 | 88 | 1368 | 0.614958062 | EP515L1 |
| 7 | 6,600,000 | 6,750,000 | 89 | 742 | -0.469235581 | ENSBTAG00000047589 |
| 7 | 6,675,000 | 6,825,000 | 90 | 262 | -1.331951302 | ENSBTAG00000047589 |
| 7 | 6,750,000 | 6,900,000 | 91 | 0 | -100 | |
| 7 | 6,825,000 | 6,975,000 | 92 | 0 | -100 | |
| 7 | 6,900,000 | 7,050,000 | 93 | 0 | -100 | |
| 7 | 6,975,000 | 7,125,000 | 94 | 0 | -100 | |
| 7 | 7,050,000 | 7,200,000 | 95 | 0 | -100 | |
| 7 | 7,125,000 | 7,275,000 | 96 | 0 | -100 | |
| 7 | 7,200,000 | 7,350,000 | 97 | 0 | -100 | |
| 7 | 7,275,000 | 7,425,000 | 98 | 0 | -100 | |
| 7 | 7,350,000 | 7,500,000 | 99 | 0 | -100 | |
| 7 | 7,425,000 | 7,575,000 | 100 | 0 | -100 | |
| 7 | 7,500,000 | 7,650,000 | 101 | 0 | -100 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|---|
| 7 | 7,575,000 | 7,725,000 | 102 | 0 | -100 | |
| 7 | 7,650,000 | 7,800,000 | 103 | 16 | 0.835845114 | |
| 7 | 7,725,000 | 7,875,000 | 104 | 418 | -0.625827829 | AP1M1,CIB3,FAM32A |
| 7 | 7,800,000 | 7,950,000 | 105 | 899 | -0.492874367 | AP1M1,CIB3,FAM32A,HSH2D,RAB8A,TPM4 |
| 7 | 7,875,000 | 8,025,000 | 106 | 1531 | 0.107358351 | CIB3,HSH2D,RAB8A,TPM4,ENSBTAG00000039983,ENSBTAG00000047796 |
| 7 | 7,950,000 | 8,100,000 | 107 | 2151 | 0.096083853 | ENSBTAG00000009069,ENSBTAG00000033092,ENSBTAG00000039983,ENSBTAG00000047796 |
| 7 | 8,025,000 | 8,175,000 | 108 | 2316 | 0.820940983 | ENSBTAG00000009069,ENSBTAG00000018736,ENSBTAG00000033092,ENSBTAG00000033146,ENSBTAG00000045972,ENSBTAG00000047215 |
| 7 | 8,100,000 | 8,250,000 | 109 | 1817 | 1.102867639 | ENSBTAG00000008335,ENSBTAG00000018736,ENSBTAG00000033146,ENSBTAG00000037458,ENSBTAG00000038980,ENSBTAG00000039921,ENSBTAG00000045972,ENSBTAG00000047215 |
| 7 | 8,175,000 | 8,325,000 | 110 | 1337 | 1.026500778 | OR10H1,ENSBTAG00000006488,ENSBTAG00000008335,ENSBTAG00000037458,ENSBTAG00000038980,ENSBTAG00000039921 |
| 7 | 8,250,000 | 8,400,000 | 111 | 1378 | 1.028157532 | OR10H1,ENSBTAG00000006216,ENSBTAG00000006488,ENSBTAG00000039337 |
| 7 | 8,325,000 | 8,475,000 | 112 | 933 | 1.001565193 | CYP4F2,ENSBTAG00000006216,ENSBTAG00000038549,ENSBTAG00000039337 |
| 7 | 8,400,000 | 8,550,000 | 113 | 615 | 0.340387359 | CYP4F2,ENSBTAG00000038549,ENSBTAG00000039319 |
| 7 | 8,475,000 | 8,625,000 | 114 | 741 | -0.134903483 | CYP4F3,ENSBTAG00000025748,ENSBTAG00000038549,ENSBTAG00000039319 |
| 7 | 8,550,000 | 8,700,000 | 115 | 762 | 0.36293704 | CYP4F22,CYP4F3,ENSBTAG00000025748 |
| 7 | 8,625,000 | 8,775,000 | 116 | 771 | 1.030569655 | AKAP8L,CYP4F22,PGLYRP2,RASAL3,WIZ |
| 7 | 8,700,000 | 8,850,000 | 117 | 858 | 1.153056284 | AKAP8,AKAP8L,PGLYRP2,RASAL3,WIZ |
| 7 | 8,775,000 | 8,925,000 | 118 | 970 | 1.155044318 | AKAP8,AKAP8L,BRD4,EPHX3 |
| 7 | 8,850,000 | 9,000,000 | 119 | 1031 | 1.093330251 | BRD4,EPHX3,NOTCH3,ENSBTAG00000040305 |
| 7 | 8,925,000 | 9,075,000 | 120 | 878 | 1.182110047 | ILVBL,NOTCH3,SYDE1,ENSBTAG00000002686,ENSBTAG00000040305 |
| 7 | 9,000,000 | 9,150,000 | 121 | 1018 | 1.362414385 | CASP14,ILVBL,SYDE1,ENSBTAG00000002686,ENSBTAG00000011496,ENSBTAG00000040305 |
| 7 | 9,075,000 | 9,225,000 | 122 | 1462 | 1.397761508 | CASP14,CCDC105,SLC1A6,ENSBTAG00000011496 |
| 7 | 9,150,000 | 9,300,000 | 123 | 1510 | 0.857124597 | CCDC105,OR7C2,SLC1A6,ENSBTAG00000027699,ENSBTAG00000039533 |
| 7 | 9,225,000 | 9,375,000 | 124 | 1150 | 0.17759477 | OR7C2,ENSBTAG00000027699,ENSBTAG00000039533 |
| 7 | 9,300,000 | 9,450,000 | 125 | 887 | 0.359155226 | ENSBTAG00000045638 |
| 7 | 9,375,000 | 9,525,000 | 126 | 1393 | 0.654366538 | ENSBTAG00000036175,ENSBTAG00000045638,ENSBTAG00000047429,ENSBTAG00000047888 |
| 7 | 9,450,000 | 9,600,000 | 127 | 1703 | 0.526631315 | ENSBTAG00000034909,ENSBTAG00000036175,ENSBTAG00000036331,ENSBTAG00000047429,ENSBTAG00000047888,ENSBTAG00000048056 |
| 7 | 9,525,000 | 9,675,000 | 128 | 1505 | 0.057863602 | ENSBTAG00000034909,ENSBTAG00000036331,ENSBTAG00000048015,ENSBTAG00000048056 |
| 7 | 9,600,000 | 9,750,000 | 129 | 1968 | 0.89875758 | ENSBTAG00000038533,ENSBTAG00000046423,ENSBTAG00000048015 |
| 7 | 9,675,000 | 9,825,000 | 130 | 2323 | 1.060639532 | ENSBTAG00000038533,ENSBTAG00000046423 |
| 7 | 9,750,000 | 9,900,000 | 131 | 2019 | 0.978332143 | |
| 7 | 9,825,000 | 9,975,000 | 132 | 1558 | 0.894203358 | ENSBTAG00000046297 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 9,900,000 | 10,050,000 | 133 | 1448 | 0.569879246 | ENSBTAG00000046297,ENSBTAG00000046945,ENSBTAG00000048208 |
| 7 | 9,975,000 | 10,125,000 | 134 | 1839 | 0.358366036 | ENSBTAG00000046945,ENSBTAG00000048208 |
| 7 | 10,050,000 | 10,200,000 | 135 | 1891 | 0.472621428 | ENSBTAG00000022663,ENSBTAG00000024397,ENSBTAG00000039877 |
| 7 | 10,125,000 | 10,275,000 | 136 | 1998 | -0.510469998 | ENSBTAG00000022663,ENSBTAG00000024397,ENSBTAG00000039877,ENSBTAG00000047539 |
| 7 | 10,200,000 | 10,350,000 | 137 | 1919 | -1.041363215 | ENSBTAG00000046233,ENSBTAG00000047539 |
| 7 | 10,275,000 | 10,425,000 | 138 | 1764 | -0.104169749 | ENSBTAG00000046233,ENSBTAG00000048072 |
| 7 | 10,350,000 | 10,500,000 | 139 | 1806 | -0.046260271 | ENSBTAG00000047817,ENSBTAG00000048066,ENSBTAG00000048072 |
| 7 | 10,425,000 | 10,575,000 | 140 | 1531 | 0.345990222 | ENSBTAG00000046513,ENSBTAG00000047817,ENSBTAG00000048066 |
| 7 | 10,500,000 | 10,650,000 | 141 | 1644 | 0.238779714 | ENSBTAG00000046513 |
| 7 | 10,575,000 | 10,725,000 | 142 | 1729 | 0.525089374 | ENSBTAG00000047244,ENSBTAG00000048193 |
| 7 | 10,650,000 | 10,800,000 | 143 | 1638 | 0.941129826 | ENSBTAG00000047244,ENSBTAG00000048193 |
| 7 | 10,725,000 | 10,875,000 | 144 | 1553 | 0.548362343 | |
| 7 | 10,800,000 | 10,950,000 | 145 | 1423 | -0.875696467 | ENSBTAG00000046958,ENSBTAG00000047696 |
| 7 | 10,875,000 | 11,025,000 | 146 | 2011 | -1.049405492 | ENSBTAG00000034917,ENSBTAG00000035241,ENSBTAG00000046958,ENSBTAG00000047696 |
| 7 | 10,950,000 | 11,100,000 | 147 | 2248 | -0.204307625 | ENSBTAG00000034917,ENSBTAG00000035241 |
| 7 | 11,025,000 | 11,175,000 | 148 | 1700 | -0.241818562 | ENSBTAG00000045561,ENSBTAG00000046163 |
| 7 | 11,100,000 | 11,250,000 | 149 | 1816 | -0.306535177 | ENSBTAG00000045561,ENSBTAG00000046163,ENSBTAG00000046397 |
| 7 | 11,175,000 | 11,325,000 | 150 | 2318 | 0.673662646 | ENSBTAG00000045927,ENSBTAG00000046397,ENSBTAG00000046798,ENSBTAG00000047576 |
| 7 | 11,250,000 | 11,400,000 | 151 | 1906 | 0.689753883 | ENSBTAG00000045927,ENSBTAG00000046798,ENSBTAG00000047433,ENSBTAG00000047576 |
| 7 | 11,325,000 | 11,475,000 | 152 | 1203 | -0.048485057 | ENSBTAG00000014365,ENSBTAG00000047433,ENSBTAG00000047576 |
| 7 | 11,400,000 | 11,550,000 | 153 | 1116 | -0.241528695 | ENSBTAG00000014365 |
| 7 | 11,475,000 | 11,625,000 | 154 | 1175 | 0.016727645 | ENSBTAG00000026148,ENSBTAG00000033061 |
| 7 | 11,550,000 | 11,700,000 | 155 | 1255 | 0.099433976 | ENSBTAG00000026148,ENSBTAG00000033061 |
| 7 | 11,625,000 | 11,775,000 | 156 | 1405 | 0.305130223 | ENSBTAG00000026148,ENSBTAG00000033055 |
| 7 | 11,700,000 | 11,850,000 | 157 | 1441 | 0.779293172 | ENSBTAG00000003528,ENSBTAG00000033055 |
| 7 | 11,775,000 | 11,925,000 | 158 | 1043 | 0.871567131 | ENSBTAG00000003528 |
| 7 | 11,850,000 | 12,000,000 | 159 | 1255 | 0.05723535 | |
| 7 | 11,925,000 | 12,075,000 | 160 | 1571 | 0.082536368 | ENSBTAG00000025908 |
| 7 | 12,000,000 | 12,150,000 | 161 | 726 | 0.334103456 | ENSBTAG00000025908 |
| 7 | 12,075,000 | 12,225,000 | 162 | 847 | 0.089144956 | EMR3,ZNF333 |
| 7 | 12,150,000 | 12,300,000 | 163 | 1507 | 0.391721495 | EMR3,ZNF333 |
| 7 | 12,225,000 | 12,375,000 | 164 | 1269 | 0.970641042 | DNAJB1,EMR3,NDUFB7,TECR |
| 7 | 12,300,000 | 12,450,000 | 165 | 1084 | 1.005871139 | DDX39,DNAJB1,EP1,GIPC1,NDUFB7,PKN1,TECR |
| 7 | 12,375,000 | 12,525,000 | 166 | 1136 | 0.436563071 | CD97,DDX39,EP1,GIPC1,PKN1 |
| 7 | 12,450,000 | 12,600,000 | 167 | 1262 | 0.128134027 | CD97,DDX39 |
| 7 | 12,525,000 | 12,675,000 | 168 | 1158 | 0.633999111 | LPHN1 |
| 7 | 12,600,000 | 12,750,000 | 169 | 999 | 1.225534604 | ASF1B,C19orf67,IL27RA,LPHN1,MIR1199,PALM3,PRKACA |
| 7 | 12,675,000 | 12,825,000 | 170 | 979 | 0.942149217 | ASF1B,C19orf67,HGNC:9982,IL27RA,MIR1199,PALM3,PRKACA,RLN3,RPL13A |
| 7 | 12,750,000 | 12,900,000 | 171 | 859 | 0.561184893 | C19orf57,CC2D1A,DCAF15,HGNC:9982,IL27RA,PODN1,RLN3,RPL13A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 12,825,000 | 12,975,000 | 172 | 722 | 0.15209963 | C19orf57,C7H19orf53,CC2D1A,CCDC130,DCAF15,HGNC:9982,MRI1,NANOS3,PODNL1,ZSWIM4 |
| 7 | 12,900,000 | 13,050,000 | 173 | 791 | -0.092705211 | C19orf57,C7H19orf53,CCDC130,MRI1,NANOS3,ZSWIM4 |
| 7 | 12,975,000 | 13,125,000 | 174 | 1214 | 0.702907729 | ZSWIM4 |
| 7 | 13,050,000 | 13,200,000 | 175 | 1397 | 0.672072371 | |
| 7 | 13,125,000 | 13,275,000 | 176 | 999 | -0.161829614 | CACNA1A |
| 7 | 13,200,000 | 13,350,000 | 177 | 993 | -1.25198357 | CACNA1A |
| 7 | 13,275,000 | 13,425,000 | 178 | 1145 | -0.803359732 | CACNA1A |
| 7 | 13,350,000 | 13,500,000 | 179 | 960 | -0.003974402 | CACNA1A |
| 7 | 13,425,000 | 13,575,000 | 180 | 784 | -0.496208134 | CACNA1A,IER2,NACC1,STX10,TRMT1 |
| 7 | 13,500,000 | 13,650,000 | 181 | 799 | -1.138188483 | CACNA1A,IER2,LYL1,NACC1,NFIX,STX10,TRMT1 |
| 7 | 13,575,000 | 13,725,000 | 182 | 657 | -1.435092893 | GADD45GIP1,LYL1,NFIX,RAD23A,TRMT1 |
| 7 | 13,650,000 | 13,800,000 | 183 | 559 | 0.072465593 | CALR,DNASE2,FARSA,GADD45GIP1,GCDH,KLF1,MAST1,NFIX,RAD23A,SYCE2 |
| 7 | 13,725,000 | 13,875,000 | 184 | 681 | 0.080144298 | CALR,DNASE2,FARSA,GCDH,HOOK2,JUNB,KLF1,MAST1,PRDX2,RAD23A,RNASEH2A,RTBDN,SYCE2 |
| 7 | 13,800,000 | 13,950,000 | 185 | 674 | 0.38372923 | ASNA1,BEST2,C7H19orf43,DHPS,FBXW9,HOOK2,JUNB,MAST1,MORG1,PRDX2,RNASEH2A,RTBDN,TNPO2,WDR83OS,ENSBTAG00000006251 |
| 7 | 13,875,000 | 14,025,000 | 186 | 777 | 0.949382052 | ASNA1,BEST2,C7H19orf43,DHPS,FBXW9,MAN2B1,MORG1,TNPO2,WDR83OS,ZNF791,ENSBTAG00000006251 |
| 7 | 13,950,000 | 14,100,000 | 187 | 1174 | 0.085151829 | MAN2B1,WDR83OS,ZNF791 |
| 7 | 14,025,000 | 14,175,000 | 188 | 1366 | 0.162553882 | |
| 7 | 14,100,000 | 14,250,000 | 189 | 1315 | 0.721318262 | |
| 7 | 14,175,000 | 14,325,000 | 190 | 1471 | 0.731659055 | MUC16,ENSBTAG00000021529 |
| 7 | 14,250,000 | 14,400,000 | 191 | 1838 | 0.704967401 | MUC16,ENSBTAG00000021529 |
| 7 | 14,325,000 | 14,475,000 | 192 | 1812 | 0.365123674 | MUC16 |
| 7 | 14,400,000 | 14,550,000 | 193 | 1293 | -0.315846167 | OR1M1 |
| 7 | 14,475,000 | 14,625,000 | 194 | 1064 | -0.280242238 | OR1M1,ENSBTAG00000022640,ENSBTAG00000023623,ENSBTAG00000032142 |
| 7 | 14,550,000 | 14,700,000 | 195 | 1569 | -0.518687307 | ENSBTAG00000022640,ENSBTAG00000023623,ENSBTAG00000032142,ENSBTAG00000038714,ENSBTAG00000039130,ENSBTAG00000040157 |
| 7 | 14,625,000 | 14,775,000 | 196 | 1732 | 0.16667811 | OR7D2,ZNF317,ENSBTAG00000038510,ENSBTAG00000038714,ENSBTAG00000039130,ENSBTAG00000040157 |
| 7 | 14,700,000 | 14,850,000 | 197 | 1752 | 0.828874166 | OR7D2,ZNF317,ENSBTAG00000038510 |
| 7 | 14,775,000 | 14,925,000 | 198 | 2041 | 0.684239743 | OR7G2,ENSBTAG00000035395,ENSBTAG00000039809 |
| 7 | 14,850,000 | 15,000,000 | 199 | 1977 | 0.654661037 | OR7G2,ENSBTAG00000035395,ENSBTAG00000039809,ENSBTAG00000040482,ENSBTAG00000046808,ENSBTAG00000046982 |
| 7 | 14,925,000 | 15,075,000 | 200 | 2282 | 0.821064511 | ENSBTAG00000004369,ENSBTAG00000040482,ENSBTAG00000046808,ENSBTAG00000046982,ENSBTAG00000047921 |
| 7 | 15,000,000 | 15,150,000 | 201 | 2183 | 0.970500889 | ENSBTAG00000004369,ENSBTAG00000046564,ENSBTAG00000046982,ENSBTAG00000047921 |
| 7 | 15,075,000 | 15,225,000 | 202 | 1907 | 0.925215683 | ENSBTAG00000046139,ENSBTAG00000046249,ENSBTAG00000046564,ENSBTAG00000047799 |
| 7 | 15,150,000 | 15,300,000 | 203 | 2067 | 1.037194948 | ENSBTAG00000046139,ENSBTAG00000046249,ENSBTAG00000047414,ENSBTAG00000047799 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 15,225,000 | 15,375,000 | 204 | 1950 | 0.764159497 | ZNF699,ENSBTAG00000039493,ENSBTAG00000046139,ENSBTAG00000047414 |
| 7 | 15,300,000 | 15,450,000 | 205 | 1475 | 0.010854338 | ZNF266,ZNF699,ENSBTAG00000039493,ENSBTAG000046265 |
| 7 | 15,375,000 | 15,525,000 | 206 | 977 | -0.209122027 | FBXL12,ZNF266,ENSBTAG00000035777,ENSBTAG000046265 |
| 7 | 15,450,000 | 15,600,000 | 207 | 994 | 0.371896297 | FBXL12,OLFM2,PIN1,ZNF266,ENSBTAG00000035777IGHV6- |
| 7 | 15,525,000 | 15,675,000 | 208 | 1078 | 0.314352573 | 1,OLFM2,PIN1,ENSBTAG00000045635,ENSBTAG0000047507IGHV6- |
| 7 | 15,600,000 | 15,750,000 | 209 | 1092 | 0.197581694 | 1,ENSBTAG00000045635,ENSBTAG00000046813,ENSBTAG00000047177,ENSBTAG00000047507 |
| 7 | 15,675,000 | 15,825,000 | 210 | 1194 | 0.398190329 | COL5A3,RDH8,ENSBTAG00000046813,ENSBTAG0000047177 |
| 7 | 15,750,000 | 15,900,000 | 211 | 1104 | 0.531852549 | ANGPTL6,C7H19orf66,COL5A3,EIF3G,P2RY11,PPAN-P2RY11,RDH8,ENSBTAG00000015557 |
| 7 | 15,825,000 | 15,975,000 | 212 | 973 | 0.204893123 | ANGPTL6,C7H19orf66,DNMT1,EIF3G,P2RY11,PPAN-P2RY11,S1PR2,ENSBTAG00000015557 |
| 7 | 15,900,000 | 16,050,000 | 213 | 854 | 0.241629519 | DNMT1,EIF3G,ICAM1,MRPL4,S1PR2 |
| 7 | 15,975,000 | 16,125,000 | 214 | 695 | 0.357676645 | FDX1L,ICAM1,ICAM3,ICAM4,ICAM5,MRPL4,RAVER1,S1PR2,TYK2,ZGLP1 |
| 7 | 16,050,000 | 16,200,000 | 215 | 544 | 0.104821054 | CDC37,FDX1L,ICAM1,ICAM3,ICAM4,ICAM5,PDE4A,RAVER1,TYK2,ZGLP1 |
| 7 | 16,125,000 | 16,275,000 | 216 | 544 | -0.057834993 | CDC37,KEAP1,PDE4A,S1PR5,TYK2 |
| 7 | 16,200,000 | 16,350,000 | 217 | 816 | -0.695394373 | AP1M2,ATG4D,CDKN2D,KEAP1,KRI1,PDE4A,S1PR5,SLC44A2 |
| 7 | 16,275,000 | 16,425,000 | 218 | 994 | -0.283088585 | AP1M2,ATG4D,CDKN2D,ILF3,KRI1,QTRT1,SLC44A2 |
| 7 | 16,350,000 | 16,500,000 | 219 | 1031 | -2.099556758 | DNM2,ILF3,QTRT1,SLC44A2 |
| 7 | 16,425,000 | 16,575,000 | 220 | 920 | -3.941467841 | C19orf38,CARM1,DNM2,TMED1 |
| 7 | 16,500,000 | 16,650,000 | 221 | 946 | -1.69986835 | C19orf38,C7H19orf52,CARM1,DNM2,SMARCA4,TMED1,YIPF2,ENSBTAG00000032364 |
| 7 | 16,575,000 | 16,725,000 | 222 | 1149 | 0.216330992 | C7H19orf52,CARM1,SMARCA4,YIPF2,ENSBTAG00000032364 |
| 7 | 16,650,000 | 16,800,000 | 223 | 1060 | 0.665090638 | LDLR,SMARCA4 |
| 7 | 16,725,000 | 16,875,000 | 224 | 1079 | -0.034924966 | DOCK6,KANK2,LDLR,SMARCA4,SPC24 |
| 7 | 16,800,000 | 16,950,000 | 225 | 1050 | -0.098951445 | C19orf80,DOCK6,KANK2,LDLR,SPC24,TSPAN16 |
| 7 | 16,875,000 | 17,025,000 | 226 | 831 | 1.186842413 | C19orf80,CCDC151,CCDC159,DOCK6,EPOR,RAB3D,RGL3,SWSAP1,TMEM205,TSPAN16,ENSBTAG00000008192 |
| 7 | 16,950,000 | 17,100,000 | 227 | 676 | 1.520419458 | CCDC151,CCDC159,ECSIT,ELAVL3,EPOR,PRKCSH,RAB3D,RGL3,SWSAP1,TMEM205,ZNF653,ENSBTAG00000008192 |
| 7 | 17,025,000 | 17,175,000 | 228 | 701 | 1.358224939 | ACP5,CCDC151,CNN1,ECSIT,ELAVL3,ELOF1,PRKCSH,ZNF653,ENSBTAG00000040153 |
| 7 | 17,100,000 | 17,250,000 | 229 | 865 | 0.158890106 | ACP5,CNN1,ELOF1,ZNF558,ENSBTAG00000040153 |
| 7 | 17,175,000 | 17,325,000 | 230 | 907 | 0.179942128 | IR-A,ZNF558,ENSBTAG00000046336,ENSBTAG00000047612 |
| 7 | 17,250,000 | 17,400,000 | 231 | 822 | -0.008047389 | IR-A,ENSBTAG00000046336,ENSBTAG00000047612 |
| 7 | 17,325,000 | 17,475,000 | 232 | 1046 | -0.682713842 | IR-A |
| 7 | 17,400,000 | 17,550,000 | 233 | 1263 | -0.720777683 | IR-A,ENSBTAG00000032125,ENSBTAG00000040507 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 17,475,000 | 17,625,000 | 234 | 982 | -0.95319179 | C19orf45,MCOLN1,PEX11G,PNPLA6,ZNF358,ENSBTA G00000032125,ENSBTAG00000040507 |
| 7 | 17,550,000 | 17,700,000 | 235 | 641 | -2.230242698 | C19orf45,CAMSAP3,MCOLN1,PEX11G,PNPLA6,XAB2,Z NF358,ENSBTAG00000040507 |
| 7 | 17,625,000 | 17,775,000 | 236 | 477 | -2.1146793 | CAMSAP3,FCER2,MCEMP1,PCP2,PNPLA6,RETN,STXBP 2,TRAPPC5,XAB2 |
| 7 | 17,700,000 | 17,850,000 | 237 | 534 | 0.896576718 | CD209,CLEC4G,EVI5L,FCER2,MCEMP1,PCP2,RETN,STX BP2,TRAPPC5 |
| 7 | 17,775,000 | 17,925,000 | 238 | 487 | 1.015927834 | CD209,CLEC4G,CTXN1,EVI5L,LRRRC8E,MAP2K7,SNAPC 2,TIMM44,ENSBTAG00000044018 |
| 7 | 17,850,000 | 18,000,000 | 239 | 407 | 0.736027627 | CTXN1,ELAVL1,EVI5L,LRRRC8E,MAP2K7,SNAPC2,TIMM 44,ENSBTAG00000044018 |
| 7 | 17,925,000 | 18,075,000 | 240 | 762 | 0.99506265 | CCL25,ELAVL1,FBN3 |
| 7 | 18,000,000 | 18,150,000 | 241 | 924 | 0.822931889 | CCL25,CERS4,FBN3 |
| 7 | 18,075,000 | 18,225,000 | 242 | 806 | 0.275951105 | CD320,CERS4,FBN3,KANK3,NDUFA7,RPS28 |
| 7 | 18,150,000 | 18,300,000 | 243 | 603 | 0.196022643 | ANGPTL4,CD320,CERS4,KANK3,MARCH2,NDUFA7,RA B11B,RPS28,ENSBTAG00000021039 |
| 7 | 18,225,000 | 18,375,000 | 244 | 385 | 0.862671018 | ANGPTL4,MARCH2,MYO1F,PRAM1,RAB11B,ZNF414,E NSBTAG00000021039 |
| 7 | 18,300,000 | 18,450,000 | 245 | 532 | 1.225637707 | ADAMTS10,MYO1F,PRAM1,ZNF414,ENSBTAG000000 21039 |
| 7 | 18,375,000 | 18,525,000 | 246 | 1003 | 1.217468587 | ACTL9,ADAMTS10,MYO1F,OR2Z1,ENSBTAG00000002 284 |
| 7 | 18,450,000 | 18,600,000 | 247 | 1281 | 0.765283148 | ACTL9,OR2Z1,ENSBTAG00000002284,ENSBTAG00000 045860 |
| 7 | 18,525,000 | 18,675,000 | 248 | 1121 | 0.355290267 | ENSBTAG000000045860 |
| 7 | 18,600,000 | 18,750,000 | 249 | 1109 | 0.06781389 | ENSBTAG000000038981 |
| 7 | 18,675,000 | 18,825,000 | 250 | 1117 | 0.011016669 | EMR1,ENSBTAG000000038981 |
| 7 | 18,750,000 | 18,900,000 | 251 | 1022 | 0.501166261 | EMR1,VAV1 |
| 7 | 18,825,000 | 18,975,000 | 252 | 761 | 0.277224658 | EMR1,GPR108,SH2D3A,TRIP10,VAV1,ENSBTAG000000 13834 |
| 7 | 18,900,000 | 19,050,000 | 253 | 347 | 0.203696578 | C3,GPR108,SH2D3A,TRIP10,VAV1,ENSBTAG00000013 834 |
| 7 | 18,975,000 | 19,125,000 | 254 | 368 | -3.718191631 | C3,GPR108,TNFSF14 |
| 7 | 19,050,000 | 19,200,000 | 255 | 554 | -1.994392607 | CD70,TNFSF14,TNFSF9 |
| 7 | 19,125,000 | 19,275,000 | 256 | 743 | 0.594118111 | CD70,DENND1C,KHSRP,SLC25A23,SLC25A41,TNFSF9, TUBB4A,ENSBTAG00000046865 |
| 7 | 19,200,000 | 19,350,000 | 257 | 907 | 0.680153479 | ACER1,ALKBH7,CLPP,DENND1C,GTF2F1,KHSRP,PSPN, SLC25A23,SLC25A41,TUBB4A,ENSBTAG00000046865 |
| 7 | 19,275,000 | 19,425,000 | 258 | 814 | 0.701444785 | ACER1,ALKBH7,CLPP,GTF2F1,MLLT1,PSPN |
| 7 | 19,350,000 | 19,500,000 | 259 | 851 | 0.204489636 | ACER1,ACSBG2,MLLT1 |
| 7 | 19,425,000 | 19,575,000 | 260 | 833 | 0.720478776 | ACSBG2,MLLT1,RFX2 |
| 7 | 19,500,000 | 19,650,000 | 261 | 838 | 0.798205156 | RANBP3,RFX2 |
| 7 | 19,575,000 | 19,725,000 | 262 | 816 | 0.193112664 | CAPS,NDUFA11,RANBP3,RFX2,VMAC |
| 7 | 19,650,000 | 19,800,000 | 263 | 715 | 0.229828512 | CAPS,CATSPERD,NDUFA11,NRTN,PRR22,RANBP3,VM AC,ENSBTAG00000000414,ENSBTAG00000011842 |
| 7 | 19,725,000 | 19,875,000 | 264 | 656 | -0.155600576 | C19orf70,CATSPERD,HSD11B1L,LONP1,NRTN,PRR22, RPL36,SAFB,ENSBTAG00000000414,ENSBTAG000000 11842 |
| 7 | 19,800,000 | 19,950,000 | 265 | 507 | -0.673220622 | C19orf70,CATSPERD,HSD11B1L,LONP1,RPL36,SAFB,S AFB2,ENSBTAG000000035584 |
| 7 | 19,875,000 | 20,025,000 | 266 | 708 | 0.802244777 | SAFB,SAFB2,ENSBTAG000000035584 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 19,950,000 | 20,100,000 | 267 | 1042 | 1.350839517 | ZNRF4 |
| 7 | 20,025,000 | 20,175,000 | 268 | 759 | 1.385302967 | ZNRF4 |
| 7 | 20,100,000 | 20,250,000 | 269 | 297 | 1.245560724 | PTPRS |
| 7 | 20,175,000 | 20,325,000 | 270 | 301 | 0.699313938 | KDM4B,PTPRS |
| 7 | 20,250,000 | 20,400,000 | 271 | 471 | -0.942025033 | KDM4B,PTPRS |
| 7 | 20,325,000 | 20,475,000 | 272 | 479 | -1.701689895 | ARRDC5,KDM4B,UHRF1 |
| 7 | 20,400,000 | 20,550,000 | 273 | 511 | -0.701095289 | ARRDC5,M6PRBP1,TICAM1,UHRF1 |
| 7 | 20,475,000 | 20,625,000 | 274 | 781 | 0.208217769 | ARRDC5,FEM1A,M6PRBP1,TICAM1 |
| 7 | 20,550,000 | 20,700,000 | 275 | 887 | 0.849894581 | C7H19orf10,DPP9,FEM1A,TICAM1,TNFAIP8L1 |
| 7 | 20,625,000 | 20,775,000 | 276 | 680 | 1.176002088 | C7H19orf10,DPP9,TNFAIP8L1 |
| 7 | 20,700,000 | 20,850,000 | 277 | 378 | 1.202669073 | LRG1,PLIN4,PLIN5,SEMA6B,TNFAIP8L1,ENSBTAG0000013251 |
| 7 | 20,775,000 | 20,925,000 | 278 | 287 | 0.627271259 | CHAF1A,LRG1,PLIN4,PLIN5,SEMA6B,SH3GL1,UBXN6,ENSBTAG00000013251 |
| 7 | 20,850,000 | 21,000,000 | 279 | 356 | 0.466000629 | CHAF1A,FSD1,MPND,SH3GL1,STAP2,TMIGD2,UBXN6,ENSBTAG00000013251 |
| 7 | 20,925,000 | 21,075,000 | 280 | 319 | 0.456720969 | ANKRD24,CCDC94,EBI3,FSD1,MPND,SH3GL1,SHD,STAP2,TMIGD2 |
| 7 | 21,000,000 | 21,150,000 | 281 | 248 | 0.474675029 | ANKRD24,CCDC94,CREB3L3,EBI3,MAP2K2,SHD,SIRT6,TMIGD2 |
| 7 | 21,075,000 | 21,225,000 | 282 | 237 | 0.886054607 | CREB3L3,MAP2K2,PIAS4,SIRT6,ZBTB7A |
| 7 | 21,150,000 | 21,300,000 | 283 | 290 | 1.273948691 | DAPK3,EEF2,ITGB1BP3,MAP2K2,PIAS4,ZBTB7A,ENSBTAG00000045914 |
| 7 | 21,225,000 | 21,375,000 | 284 | 766 | 0.711688499 | ATCAY,DAPK3,EEF2,ITGB1BP3,PIAS4,ENSBTAG00000045914 |
| 7 | 21,300,000 | 21,450,000 | 285 | 879 | 0.546508312 | APBA3,ATCAY,MATK,MRPL54,RAX2,ZFR2,ZO3 |
| 7 | 21,375,000 | 21,525,000 | 286 | 581 | 0.91134574 | APBA3,MATK,MRPL54,PIP5K1C,RAX2,ZFR2,ZO3 |
| 7 | 21,450,000 | 21,600,000 | 287 | 613 | 0.358583695 | CACTIN,HMG20B,MFSD12,PIP5K1C,TBXA2R,ZO3,ENSBTAG00000008789 |
| 7 | 21,525,000 | 21,675,000 | 288 | 593 | -2.01007329 | C7H19orf71,CACTIN,DOHH,FZR1,HMG20B,MFSD12,PIP5K1C,SMIM24,TBXA2R,ENSBTAG00000008789 |
| 7 | 21,600,000 | 21,750,000 | 289 | 436 | -2.537613141 | C7H19orf71,DOHH,FZR1,MFSD12,NFIC,SMIM24 |
| 7 | 21,675,000 | 21,825,000 | 290 | 415 | 0.175923919 | CELF5,NFIC |
| 7 | 21,750,000 | 21,900,000 | 291 | 461 | 1.296879861 | CELF5,NCLN,S1PR4 |
| 7 | 21,825,000 | 21,975,000 | 292 | 528 | 0.970778916 | CELF5,GNA11,GNA15,NCLN,S1PR4 |
| 7 | 21,900,000 | 22,050,000 | 293 | 753 | -0.106262475 | AES,GNA11,GNA15,TLE2,TLE6 |
| 7 | 21,975,000 | 22,125,000 | 294 | 818 | -0.344865845 | AES,TLE2,TLE6,ZNF554,ZNF555,ZNF77 |
| 7 | 22,050,000 | 22,200,000 | 295 | 635 | 0.364376965 | DIRAS1,SGTA,SLC39A3,THOP1,ZNF554,ZNF555,ZNF77 |
| 7 | 22,125,000 | 22,275,000 | 296 | 488 | 0.427324336 | DIRAS1,GNG7,SGTA,SLC39A3,THOP1 |
| 7 | 22,200,000 | 22,350,000 | 297 | 475 | 0.108436922 | GNG7 |
| 7 | 22,275,000 | 22,425,000 | 298 | 591 | -0.132317481 | GADD45B,GNG7,ENSBTAG00000024041,ENSBTAG00000045755 |
| 7 | 22,350,000 | 22,500,000 | 299 | 896 | 0.106264446 | GADD45B,LMNB2,TIMM13,TMPRSS9,ENSBTAG00000024041,ENSBTAG000000045755 |
| 7 | 22,425,000 | 22,575,000 | 300 | 696 | 0.083686802 | C19orf35,LINGO3,LMNB2,LSM7,SPPL2B,TIMM13,TMPRSS9 |
| 7 | 22,500,000 | 22,650,000 | 301 | 259 | -0.608033654 | C19orf35,DOT1L,LINGO3,LSM7,OAZ1,SPPL2B |
| 7 | 22,575,000 | 22,725,000 | 302 | 214 | -0.434898821 | AMH,AP3D1,DOT1L,JSRP1,OAZ1,PLEKHJ1,SF3A2 |
| 7 | 22,650,000 | 22,800,000 | 303 | 229 | -0.549824295 | AMH,AP3D1,DOT1L,IZUMO4,JSRP1,MKNK2,MOB3A,PLEKHJ1,SF3A2 |
| 7 | 22,725,000 | 22,875,000 | 304 | 394 | -0.441766807 | AP3D1,IZUMO4,MKNK2,MOB3A,SEPT8 |
| 7 | 22,800,000 | 22,950,000 | 305 | 751 | 0.098913132 | CCNI2,KIF3A,SEPT8 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------|
| 7 | 22,875,000 | 23,025,000 | 306 | 795 | 0.485384781 | CCNI2,IL13,IL4,KIF3A,SEPT8 |
| 7 | 22,950,000 | 23,100,000 | 307 | 765 | 1.053422961 | IL13,IL4,KIF3A,RAD50 |
| 7 | 23,025,000 | 23,175,000 | 308 | 538 | 0.884195391 | RAD50 |
| 7 | 23,100,000 | 23,250,000 | 309 | 163 | -1.443526205 | IL5,IRF1,RAD50 |
| 7 | 23,175,000 | 23,325,000 | 310 | 472 | -0.22023419 | IL5,IRF1 |
| 7 | 23,250,000 | 23,400,000 | 311 | 859 | 0.452796095 | SLC22A4,SLC22A5 |
| 7 | 23,325,000 | 23,475,000 | 312 | 947 | 0.951969138 | PDLIM4,SLC22A4,SLC22A5 |
| 7 | 23,400,000 | 23,550,000 | 313 | 1010 | 0.834261079 | P4HA2,PDLIM4,SLC22A4 |
| 7 | 23,475,000 | 23,625,000 | 314 | 919 | 0.857062859 | P4HA2,RPS4X |
| 7 | 23,550,000 | 23,700,000 | 315 | 808 | 0.872243189 | CSF2,RPS4X |
| 7 | 23,625,000 | 23,775,000 | 316 | 803 | 0.569233197 | CSF2,IL3 |
| 7 | 23,700,000 | 23,850,000 | 317 | 689 | -0.333672197 | ACSL6,IL3 |
| 7 | 23,775,000 | 23,925,000 | 318 | 627 | -0.179256543 | ACSL6 |
| 7 | 23,850,000 | 24,000,000 | 319 | 599 | -0.162574184 | ACSL6,FNIP1 |
| 7 | 23,925,000 | 24,075,000 | 320 | 366 | -1.157867144 | FNIP1 |
| 7 | 24,000,000 | 24,150,000 | 321 | 250 | -1.643805022 | FNIP1,ENSBTAG00000000682 |
| 7 | 24,075,000 | 24,225,000 | 322 | 351 | -1.714894613 | ENSBTAG00000000682 |
| 7 | 24,150,000 | 24,300,000 | 323 | 363 | -1.807407457 | ENSBTAG00000000682 |
| 7 | 24,225,000 | 24,375,000 | 324 | 450 | -1.041265805 | CDC42SE2,ENSBTAG00000000682 |
| 7 | 24,300,000 | 24,450,000 | 325 | 757 | 0.087993318 | CDC42SE2 |
| 7 | 24,375,000 | 24,525,000 | 326 | 888 | 0.552598151 | CDC42SE2,HINT1,LYRM7 |
| 7 | 24,450,000 | 24,600,000 | 327 | 832 | 0.73872433 | HINT1,LYRM7 |
| 7 | 24,525,000 | 24,675,000 | 328 | 1015 | 0.769643136 | |
| 7 | 24,600,000 | 24,750,000 | 329 | 1153 | 0.058405988 | |
| 7 | 24,675,000 | 24,825,000 | 330 | 1293 | -0.39479742 | |
| 7 | 24,750,000 | 24,900,000 | 331 | 1129 | -0.373272169 | |
| 7 | 24,825,000 | 24,975,000 | 332 | 945 | 0.763930599 | |
| 7 | 24,900,000 | 25,050,000 | 333 | 1081 | 1.06449936 | |
| 7 | 24,975,000 | 25,125,000 | 334 | 1060 | 1.022951524 | |
| 7 | 25,050,000 | 25,200,000 | 335 | 1101 | 0.706793742 | CHSY3 |
| 7 | 25,125,000 | 25,275,000 | 336 | 1108 | 0.75812206 | CHSY3 |
| 7 | 25,200,000 | 25,350,000 | 337 | 1080 | 0.876864416 | CHSY3 |
| 7 | 25,275,000 | 25,425,000 | 338 | 897 | 0.146365119 | CHSY3 |
| 7 | 25,350,000 | 25,500,000 | 339 | 886 | -0.238935254 | CHSY3 |
| 7 | 25,425,000 | 25,575,000 | 340 | 1231 | 0.134032547 | CHSY3 |
| 7 | 25,500,000 | 25,650,000 | 341 | 1274 | 0.298357028 | ADAMTS19,KIAA1024L |
| 7 | 25,575,000 | 25,725,000 | 342 | 986 | 0.399393402 | ADAMTS19,KIAA1024L |
| 7 | 25,650,000 | 25,800,000 | 343 | 781 | -0.063688231 | ADAMTS19 |
| 7 | 25,725,000 | 25,875,000 | 344 | 611 | -0.31643139 | ADAMTS19 |
| 7 | 25,800,000 | 25,950,000 | 345 | 822 | 0.617308518 | ADAMTS19 |
| 7 | 25,875,000 | 26,025,000 | 346 | 1114 | 0.459393772 | ADAMTS19 |
| 7 | 25,950,000 | 26,100,000 | 347 | 1041 | -0.360944178 | |
| 7 | 26,025,000 | 26,175,000 | 348 | 1118 | -1.013140041 | ISOC1 |
| 7 | 26,100,000 | 26,250,000 | 349 | 895 | -1.694373167 | ISOC1,SLC27A6 |
| 7 | 26,175,000 | 26,325,000 | 350 | 671 | -2.471355678 | ISOC1,SLC27A6 |
| 7 | 26,250,000 | 26,400,000 | 351 | 847 | -0.832693306 | SLC27A6 |
| 7 | 26,325,000 | 26,475,000 | 352 | 747 | -0.053274276 | SLC27A6 |
| 7 | 26,400,000 | 26,550,000 | 353 | 679 | 0.478522249 | |
| 7 | 26,475,000 | 26,625,000 | 354 | 710 | 0.753686532 | |
| 7 | 26,550,000 | 26,700,000 | 355 | 545 | -0.011569754 | FBN2 |
| 7 | 26,625,000 | 26,775,000 | 356 | 505 | -0.030369051 | FBN2 |
| 7 | 26,700,000 | 26,850,000 | 357 | 608 | 0.520616261 | FBN2 |
| 7 | 26,775,000 | 26,925,000 | 358 | 703 | 0.336758367 | FBN2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 7 | 26,850,000 | 27,000,000 | 359 | 852 | 0.776702241 | FBN2,SLC12A2 |
| 7 | 26,925,000 | 27,075,000 | 360 | 770 | 0.776911742 | SLC12A2 |
| 7 | 27,000,000 | 27,150,000 | 361 | 880 | 0.771502775 | SLC12A2 |
| 7 | 27,075,000 | 27,225,000 | 362 | 1055 | 0.953699982 | |
| 7 | 27,150,000 | 27,300,000 | 363 | 980 | 0.675614688 | |
| 7 | 27,225,000 | 27,375,000 | 364 | 807 | 0.491709355 | |
| 7 | 27,300,000 | 27,450,000 | 365 | 712 | 0.40666613 | |
| 7 | 27,375,000 | 27,525,000 | 366 | 683 | 0.476104147 | CTXN3 |
| 7 | 27,450,000 | 27,600,000 | 367 | 615 | -0.195077195 | CTXN3 |
| 7 | 27,525,000 | 27,675,000 | 368 | 1081 | -0.086024532 | |
| 7 | 27,600,000 | 27,750,000 | 369 | 1436 | -0.640126393 | PRRC1 |
| 7 | 27,675,000 | 27,825,000 | 370 | 1294 | -2.153898967 | MEGF10,PRRC1 |
| 7 | 27,750,000 | 27,900,000 | 371 | 1064 | -1.900754918 | MEGF10 |
| 7 | 27,825,000 | 27,975,000 | 372 | 924 | -0.050559703 | MEGF10 |
| 7 | 27,900,000 | 28,050,000 | 373 | 956 | 0.060084556 | MEGF10 |
| 7 | 27,975,000 | 28,125,000 | 374 | 893 | 0.180069672 | MEGF10 |
| 7 | 28,050,000 | 28,200,000 | 375 | 779 | -0.032112092 | C5orf63 |
| 7 | 28,125,000 | 28,275,000 | 376 | 652 | -0.235605271 | C5orf63,MARCH3 |
| 7 | 28,200,000 | 28,350,000 | 377 | 886 | 0.754418812 | |
| 7 | 28,275,000 | 28,425,000 | 378 | 1035 | 0.615415877 | LMNB1,MARCH3 |
| 7 | 28,350,000 | 28,500,000 | 379 | 829 | 0.873306108 | LMNB1,MARCH3 |
| 7 | 28,425,000 | 28,575,000 | 380 | 736 | 1.155107282 | ALDH7A1,LMNB1,PHAX,TEX43 |
| 7 | 28,500,000 | 28,650,000 | 381 | 561 | 1.056567321 | ALDH7A1,PHAX,TEX43 |
| 7 | 28,575,000 | 28,725,000 | 382 | 552 | 0.776689754 | ALDH7A1,GRAMD3 |
| 7 | 28,650,000 | 28,800,000 | 383 | 592 | 0.647099824 | GRAMD3 |
| 7 | 28,725,000 | 28,875,000 | 384 | 675 | 0.118933149 | GRAMD3 |
| 7 | 28,800,000 | 28,950,000 | 385 | 998 | 0.706288244 | |
| 7 | 28,875,000 | 29,025,000 | 386 | 920 | 0.753496664 | |
| 7 | 28,950,000 | 29,100,000 | 387 | 669 | -0.024112023 | |
| 7 | 29,025,000 | 29,175,000 | 388 | 845 | -0.077875194 | |
| 7 | 29,100,000 | 29,250,000 | 389 | 1070 | -0.166669312 | |
| 7 | 29,175,000 | 29,325,000 | 390 | 993 | -0.080419904 | |
| 7 | 29,250,000 | 29,400,000 | 391 | 874 | -0.370529395 | |
| 7 | 29,325,000 | 29,475,000 | 392 | 797 | -0.410292408 | |
| 7 | 29,400,000 | 29,550,000 | 393 | 701 | -0.092133872 | |
| 7 | 29,475,000 | 29,625,000 | 394 | 848 | 0.588838365 | |
| 7 | 29,550,000 | 29,700,000 | 395 | 1119 | 0.640893189 | ENSBTAG00000046696 |
| 7 | 29,625,000 | 29,775,000 | 396 | 1305 | 0.780128743 | ENSBTAG00000046696 |
| 7 | 29,700,000 | 29,850,000 | 397 | 963 | 0.462466283 | |
| 7 | 29,775,000 | 29,925,000 | 398 | 534 | -0.328730721 | |
| 7 | 29,850,000 | 30,000,000 | 399 | 689 | 0.634760237 | |
| 7 | 29,925,000 | 30,075,000 | 400 | 933 | 0.889521844 | |
| 7 | 30,000,000 | 30,150,000 | 401 | 779 | 0.821013701 | |
| 7 | 30,075,000 | 30,225,000 | 402 | 822 | 0.470563556 | |
| 7 | 30,150,000 | 30,300,000 | 403 | 937 | -0.396608915 | |
| 7 | 30,225,000 | 30,375,000 | 404 | 708 | -0.371516906 | ZNF608 |
| 7 | 30,300,000 | 30,450,000 | 405 | 685 | 0.930719551 | ZNF608 |
| 7 | 30,375,000 | 30,525,000 | 406 | 903 | 1.026940695 | ZNF608 |
| 7 | 30,450,000 | 30,600,000 | 407 | 1101 | 1.063814603 | ZNF608 |
| 7 | 30,525,000 | 30,675,000 | 408 | 1204 | -0.140802195 | |
| 7 | 30,600,000 | 30,750,000 | 409 | 978 | -1.092298869 | |
| 7 | 30,675,000 | 30,825,000 | 410 | 652 | -0.734465906 | |
| 7 | 30,750,000 | 30,900,000 | 411 | 439 | -0.660812047 | |

03-Mar

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 7 | 30,825,000 | 30,975,000 | 412 | 709 | -0.943740576 | |
| 7 | 30,900,000 | 31,050,000 | 413 | 890 | -0.593598148 | |
| 7 | 30,975,000 | 31,125,000 | 414 | 475 | 0.396411802 | |
| 7 | 31,050,000 | 31,200,000 | 415 | 520 | 0.625566135 | ENSBTAG00000047546 |
| 7 | 31,125,000 | 31,275,000 | 416 | 1030 | 0.281272417 | ENSBTAG00000047546 |
| 7 | 31,200,000 | 31,350,000 | 417 | 972 | 0.654255129 | |
| 7 | 31,275,000 | 31,425,000 | 418 | 638 | 0.859592992 | |
| 7 | 31,350,000 | 31,500,000 | 419 | 573 | -0.320307103 | CSNK1G3 |
| 7 | 31,425,000 | 31,575,000 | 420 | 378 | -0.58487225 | CSNK1G3 |
| 7 | 31,500,000 | 31,650,000 | 421 | 578 | -1.33673218 | CSNK1G3 |
| 7 | 31,575,000 | 31,725,000 | 422 | 1300 | -0.781801894 | CEP120,CSNK1G3 |
| 7 | 31,650,000 | 31,800,000 | 423 | 1405 | 0.011971747 | CEP120 |
| 7 | 31,725,000 | 31,875,000 | 424 | 1077 | 0.182598696 | CEP120 |
| 7 | 31,800,000 | 31,950,000 | 425 | 1070 | -0.208832315 | |
| 7 | 31,875,000 | 32,025,000 | 426 | 1128 | -1.746348441 | PRDM6 |
| 7 | 31,950,000 | 32,100,000 | 427 | 1086 | -2.469417808 | PRDM6 |
| 7 | 32,025,000 | 32,175,000 | 428 | 702 | -0.715213272 | PPIC,PRDM6,SNX24 |
| 7 | 32,100,000 | 32,250,000 | 429 | 707 | 0.409941033 | PPIC,SNX24 |
| 7 | 32,175,000 | 32,325,000 | 430 | 1154 | -0.234017441 | SNX24 |
| 7 | 32,250,000 | 32,400,000 | 431 | 1206 | 0.270442047 | SNX2,SNX24 |
| 7 | 32,325,000 | 32,475,000 | 432 | 936 | 0.501831016 | SNX2 |
| 7 | 32,400,000 | 32,550,000 | 433 | 661 | -0.190262562 | |
| 7 | 32,475,000 | 32,625,000 | 434 | 875 | 1.064047488 | |
| 7 | 32,550,000 | 32,700,000 | 435 | 1146 | 0.878147779 | |
| 7 | 32,625,000 | 32,775,000 | 436 | 853 | 0.159422174 | SNCAIP |
| 7 | 32,700,000 | 32,850,000 | 437 | 591 | 0.507515836 | SNCAIP |
| 7 | 32,775,000 | 32,925,000 | 438 | 606 | 0.929949816 | |
| 7 | 32,850,000 | 33,000,000 | 439 | 704 | 0.436416905 | ZNF474 |
| 7 | 32,925,000 | 33,075,000 | 440 | 633 | 0.254287457 | ZNF474 |
| 7 | 33,000,000 | 33,150,000 | 441 | 571 | 0.837748067 | LOX,SRFBP1,ZNF474 |
| 7 | 33,075,000 | 33,225,000 | 442 | 511 | 1.183295097 | LOX,SRFBP1 |
| 7 | 33,150,000 | 33,300,000 | 443 | 377 | 1.139824506 | SRFBP1 |
| 7 | 33,225,000 | 33,375,000 | 444 | 647 | 0.312794691 | FTMT |
| 7 | 33,300,000 | 33,450,000 | 445 | 740 | -0.170954879 | FTMT |
| 7 | 33,375,000 | 33,525,000 | 446 | 488 | -0.219285796 | |
| 7 | 33,450,000 | 33,600,000 | 447 | 616 | 0.30631394 | |
| 7 | 33,525,000 | 33,675,000 | 448 | 1020 | 0.377908915 | RPLP2 |
| 7 | 33,600,000 | 33,750,000 | 449 | 1177 | 0.739539893 | RPLP2 |
| 7 | 33,675,000 | 33,825,000 | 450 | 1483 | 0.934823644 | |
| 7 | 33,750,000 | 33,900,000 | 451 | 1366 | 0.207543407 | |
| 7 | 33,825,000 | 33,975,000 | 452 | 1090 | -0.581946439 | |
| 7 | 33,900,000 | 34,050,000 | 453 | 1576 | -0.319236297 | |
| 7 | 33,975,000 | 34,125,000 | 454 | 1572 | 0.643362269 | ENSBTAG00000046914 |
| 7 | 34,050,000 | 34,200,000 | 455 | 1190 | 1.121142944 | ENSBTAG00000046914,ENSBTAG00000047190 |
| 7 | 34,125,000 | 34,275,000 | 456 | 1350 | 1.024427541 | ENSBTAG00000047190 |
| 7 | 34,200,000 | 34,350,000 | 457 | 1303 | 0.426750243 | |
| 7 | 34,275,000 | 34,425,000 | 458 | 1201 | -0.036755159 | |
| 7 | 34,350,000 | 34,500,000 | 459 | 1173 | 0.619772714 | |
| 7 | 34,425,000 | 34,575,000 | 460 | 1078 | 0.174361523 | PRR16 |
| 7 | 34,500,000 | 34,650,000 | 461 | 822 | 0.031256731 | PRR16,ENSBTAG00000046688 |
| 7 | 34,575,000 | 34,725,000 | 462 | 573 | 0.246231238 | ENSBTAG00000046688 |
| 7 | 34,650,000 | 34,800,000 | 463 | 986 | 0.67989413 | |
| 7 | 34,725,000 | 34,875,000 | 464 | 1158 | 0.801389368 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------|
| 7 | 34,800,000 | 34,950,000 | 465 | 1021 | 0.028415278 | |
| 7 | 34,875,000 | 35,025,000 | 466 | 814 | -0.544548423 | |
| 7 | 34,950,000 | 35,100,000 | 467 | 774 | -0.457539581 | |
| 7 | 35,025,000 | 35,175,000 | 468 | 944 | 0.029614064 | |
| 7 | 35,100,000 | 35,250,000 | 469 | 887 | -0.227806783 | |
| 7 | 35,175,000 | 35,325,000 | 470 | 988 | -0.346363287 | |
| 7 | 35,250,000 | 35,400,000 | 471 | 942 | -0.066897418 | |
| 7 | 35,325,000 | 35,475,000 | 472 | 1001 | -1.952711954 | |
| 7 | 35,400,000 | 35,550,000 | 473 | 1242 | -2.090428618 | |
| 7 | 35,475,000 | 35,625,000 | 474 | 1195 | -1.595572941 | FAM170A |
| 7 | 35,550,000 | 35,700,000 | 475 | 1084 | -1.608944527 | FAM170A,HSD17B4 |
| 7 | 35,625,000 | 35,775,000 | 476 | 1175 | -0.730760044 | HSD17B4 |
| 7 | 35,700,000 | 35,850,000 | 477 | 1230 | -0.072190541 | HSD17B4,TNFAIP8 |
| 7 | 35,775,000 | 35,925,000 | 478 | 981 | -1.746055234 | TNFAIP8 |
| 7 | 35,850,000 | 36,000,000 | 479 | 583 | -2.681932072 | DMXL1,TNFAIP8 |
| 7 | 35,925,000 | 36,075,000 | 480 | 319 | 0.178982287 | DMXL1 |
| 7 | 36,000,000 | 36,150,000 | 481 | 356 | 0.403068331 | DMXL1 |
| 7 | 36,075,000 | 36,225,000 | 482 | 546 | 0.801573448 | DMXL1,DTWD2 |
| 7 | 36,150,000 | 36,300,000 | 483 | 1120 | 0.826050875 | DTWD2 |
| 7 | 36,225,000 | 36,375,000 | 484 | 1485 | 0.762297358 | DTWD2 |
| 7 | 36,300,000 | 36,450,000 | 485 | 1635 | 1.000463638 | |
| 7 | 36,375,000 | 36,525,000 | 486 | 1591 | 0.764892363 | |
| 7 | 36,450,000 | 36,600,000 | 487 | 1407 | 0.20207434 | |
| 7 | 36,525,000 | 36,675,000 | 488 | 1813 | 0.525615478 | |
| 7 | 36,600,000 | 36,750,000 | 489 | 1573 | 0.525576261 | |
| 7 | 36,675,000 | 36,825,000 | 490 | 981 | 0.385105517 | |
| 7 | 36,750,000 | 36,900,000 | 491 | 993 | 0.494916509 | |
| 7 | 36,825,000 | 36,975,000 | 492 | 905 | -0.249725564 | |
| 7 | 36,900,000 | 37,050,000 | 493 | 938 | 0.083365111 | |
| 7 | 36,975,000 | 37,125,000 | 494 | 1379 | 0.064012479 | |
| 7 | 37,050,000 | 37,200,000 | 495 | 1523 | -0.628403007 | |
| 7 | 37,125,000 | 37,275,000 | 496 | 1091 | -0.329801637 | |
| 7 | 37,200,000 | 37,350,000 | 497 | 1150 | 0.098958868 | |
| 7 | 37,275,000 | 37,425,000 | 498 | 1229 | 0.285236771 | |
| 7 | 37,350,000 | 37,500,000 | 499 | 877 | 0.146735406 | |
| 7 | 37,425,000 | 37,575,000 | 500 | 878 | -1.115459681 | |
| 7 | 37,500,000 | 37,650,000 | 501 | 1052 | -1.199801396 | |
| 7 | 37,575,000 | 37,725,000 | 502 | 1226 | -0.215492817 | |
| 7 | 37,650,000 | 37,800,000 | 503 | 1368 | 0.711032152 | |
| 7 | 37,725,000 | 37,875,000 | 504 | 1431 | 0.892642188 | |
| 7 | 37,800,000 | 37,950,000 | 505 | 1214 | 0.537093561 | |
| 7 | 37,875,000 | 38,025,000 | 506 | 1057 | 0.00676808 | |
| 7 | 37,950,000 | 38,100,000 | 507 | 1101 | -0.336133153 | |
| 7 | 38,025,000 | 38,175,000 | 508 | 1086 | -0.890218456 | |
| 7 | 38,100,000 | 38,250,000 | 509 | 1161 | -0.996749382 | |
| 7 | 38,175,000 | 38,325,000 | 510 | 1217 | -1.156121846 | |
| 7 | 38,250,000 | 38,400,000 | 511 | 1171 | -1.322082318 | |
| 7 | 38,325,000 | 38,475,000 | 512 | 921 | -2.349401781 | |
| 7 | 38,400,000 | 38,550,000 | 513 | 833 | -1.825241446 | |
| 7 | 38,475,000 | 38,625,000 | 514 | 1039 | 0.205582767 | |
| 7 | 38,550,000 | 38,700,000 | 515 | 1257 | -0.020417087 | |
| 7 | 38,625,000 | 38,775,000 | 516 | 984 | -0.47446695 | SEMA6A |
| 7 | 38,700,000 | 38,850,000 | 517 | 699 | -0.201854388 | SEMA6A |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 38,775,000 | 38,925,000 | 518 | 856 | 0.257751207 | SEMA6A |
| 7 | 38,850,000 | 39,000,000 | 519 | 835 | 0.664867543 | COMMD10 |
| 7 | 38,925,000 | 39,075,000 | 520 | 778 | 0.180847308 | COMMD10 |
| 7 | 39,000,000 | 39,150,000 | 521 | 925 | -0.799067993 | COMMD10 |
| 7 | 39,075,000 | 39,225,000 | 522 | 899 | -0.708393524 | ARL10,CLTB,COMMD10,HIGD2A,NOP16 |
| 7 | 39,150,000 | 39,300,000 | 523 | 780 | -0.026226504 | ARL10,CLTB,FAF2,HIGD2A,NOP16 |
| 7 | 39,225,000 | 39,375,000 | 524 | 794 | 0.547522918 | CLTB,FAF2,RNF44 |
| 7 | 39,300,000 | 39,450,000 | 525 | 757 | 0.838925148 | CDHR2,FAF2,GPRIN1,RNF44,SNCB |
| 7 | 39,375,000 | 39,525,000 | 526 | 675 | 0.537224832 | CDHR2,EIF4E1B,GPRIN1,SNCB,TSPAN17 |
| 7 | 39,450,000 | 39,600,000 | 527 | 854 | -0.235859544 | EIF4E1B,SNCB,TSPAN17 |
| 7 | 39,525,000 | 39,675,000 | 528 | 802 | -0.1060978 | |
| 7 | 39,600,000 | 39,750,000 | 529 | 551 | 0.291521579 | HK3,UIMC1,UNC5A |
| 7 | 39,675,000 | 39,825,000 | 530 | 497 | 0.678224558 | HK3,UIMC1,UNC5A |
| 7 | 39,750,000 | 39,900,000 | 531 | 414 | 0.789231286 | UIMC1,ZNF346 |
| 7 | 39,825,000 | 39,975,000 | 532 | 307 | 0.566471952 | FGFR4,UIMC1,ZNF346 |
| 7 | 39,900,000 | 40,050,000 | 533 | 191 | 1.207229944 | FGFR4,NSD1,ZNF346 |
| 7 | 39,975,000 | 40,125,000 | 534 | 215 | 1.336169831 | NSD1 |
| 7 | 40,050,000 | 40,200,000 | 535 | 388 | 0.40286775 | LMAN2,MXD3,NSD1,PRELID1,RAB24 |
| 7 | 40,125,000 | 40,275,000 | 536 | 672 | 0.569263121 | F12,LMAN2,MXD3,PFN3,PRELID1,RAB24,RGS14,SLC34A1 |
| 7 | 40,200,000 | 40,350,000 | 537 | 540 | 0.839025078 | DBN1,F12,GRK6,LMAN2,PDLIM7,PFN3,PRR7,RGS14,SLC34A1 |
| 7 | 40,275,000 | 40,425,000 | 538 | 220 | 0.313281588 | DBN1,DDX41,DOK3,FAM193B,GRK6,PDLIM7,PRR7 |
| 7 | 40,350,000 | 40,500,000 | 539 | 177 | -0.264245567 | B4GALT7,DDX41,DOK3,EEF1A1,FAM193B,PDLIM7,TMED9,ENSBTAG00000039886 |
| 7 | 40,425,000 | 40,575,000 | 540 | 458 | 0.324031144 | B4GALT7,EEF1A1,N4BP3,TMED9,ENSBTAG00000039886 |
| 7 | 40,500,000 | 40,650,000 | 541 | 611 | 0.457200233 | HNRNPAB,N4BP3,NHP2,PHYKPL,RMND5B |
| 7 | 40,575,000 | 40,725,000 | 542 | 628 | -2.319963757 | COL23A1,HNRNPAB,N4BP3,NHP2,PHYKPL,RMND5B |
| 7 | 40,650,000 | 40,800,000 | 543 | 1024 | -1.977391355 | COL23A1,PHYKPL |
| 7 | 40,725,000 | 40,875,000 | 544 | 965 | -0.682133509 | |
| 7 | 40,800,000 | 40,950,000 | 545 | 875 | -0.79577882 | |
| 7 | 40,875,000 | 41,025,000 | 546 | 813 | -0.298627162 | |
| 7 | 40,950,000 | 41,100,000 | 547 | 673 | 0.274996563 | |
| 7 | 41,025,000 | 41,175,000 | 548 | 645 | -0.289465737 | CLK4,ZNF354A |
| 7 | 41,100,000 | 41,250,000 | 549 | 497 | -1.447093722 | CLK4,PROP1,ZNF354A,ENSBTAG00000030704 |
| 7 | 41,175,000 | 41,325,000 | 550 | 463 | -1.454311392 | OR2Y1,PROP1,ZNF354A,ENSBTAG00000030704,ENSBTAG00000046963 |
| 7 | 41,250,000 | 41,400,000 | 551 | 334 | -0.883741474 | MGAT1,OR2Y1,ENSBTAG00000046963 |
| 7 | 41,325,000 | 41,475,000 | 552 | 898 | 0.295328118 | MGAT1,ZFP62,ENSBTAG00000024713,ENSBTAG00000046424 |
| 7 | 41,400,000 | 41,550,000 | 553 | 1305 | 0.304504145 | ZFP62,ENSBTAG00000024713,ENSBTAG00000046424,ENSBTAG00000047182 |
| 7 | 41,475,000 | 41,625,000 | 554 | 1020 | 0.593809604 | OR2V1,ENSBTAG00000039706,ENSBTAG00000047182,ENSBTAG00000047300 |
| 7 | 41,550,000 | 41,700,000 | 555 | 1229 | 0.618721915 | BTNL9,OR2V1,ENSBTAG00000039706,ENSBTAG00000047082,ENSBTAG00000047300,ENSBTAG00000047927 |
| 7 | 41,625,000 | 41,775,000 | 556 | 1167 | 0.578082761 | BTNL9,GNB2L1,TRIM41,TRIM7,ENSBTAG00000047082,ENSBTAG00000047927 |
| 7 | 41,700,000 | 41,850,000 | 557 | 1088 | 0.349224914 | GNB2L1,IFI47,TRIM41,TRIM52,TRIM7,ENSBTAG0000004815 |
| 7 | 41,775,000 | 41,925,000 | 558 | 1329 | -0.222375364 | IFI47,TRIM52,ENSBTAG0000004815 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 41,850,000 | 42,000,000 | 559 | 1169 | -0.011819449 | ZNF496 |
| 7 | 41,925,000 | 42,075,000 | 560 | 890 | -0.243374214 | NLRP3,ZNF496 |
| 7 | 42,000,000 | 42,150,000 | 561 | 1120 | 0.074260093 | NLRP3,OR2B11,ENSBTAG00000039986 |
| 7 | 42,075,000 | 42,225,000 | 562 | 1039 | 0.039693473 | NLRP3,OR2B11,ENSBTAG00000039986,ENSBTAG0000048069,ENSBTAG00000048315 |
| 7 | 42,150,000 | 42,300,000 | 563 | 830 | 0.71349441 | OR2G2,ENSBTAG00000039484,ENSBTAG00000048069,ENSBTAG00000048315 |
| 7 | 42,225,000 | 42,375,000 | 564 | 1084 | 1.222034411 | COX7B,OR2G2,OR2G3,ENSBTAG00000037611,ENSBTAG00000039484,ENSBTAG00000039804 |
| 7 | 42,300,000 | 42,450,000 | 565 | 1009 | 0.352284832 | COX7B,OR2G3,ENSBTAG00000037611,ENSBTAG0000039804 |
| 7 | 42,375,000 | 42,525,000 | 566 | 1058 | 0.330344853 | OR6F1,ENSBTAG00000045691 |
| 7 | 42,450,000 | 42,600,000 | 567 | 928 | 0.571641575 | OR11L1,OR6F1,ENSBTAG0000001761,ENSBTAG0000040109,ENSBTAG00000045691 |
| 7 | 42,525,000 | 42,675,000 | 568 | 672 | 0.265367138 | OR11L1,TRIM58,ENSBTAG0000001761,ENSBTAG0000025293,ENSBTAG00000038623,ENSBTAG00000040109 |
| 7 | 42,600,000 | 42,750,000 | 569 | 730 | 0.370254561 | TRIM58,ENSBTAG00000025293,ENSBTAG00000038623,ENSBTAG00000039797,ENSBTAG00000039805,ENSBTAG00000046318 |
| 7 | 42,675,000 | 42,825,000 | 570 | 954 | 0.704845613 | OR2AK2,ENSBTAG00000039797,ENSBTAG00000039805,ENSBTAG00000046318,ENSBTAG00000047016 |
| 7 | 42,750,000 | 42,900,000 | 571 | 1359 | 0.661039079 | OR2AK2,ENSBTAG00000027241,ENSBTAG00000045733,ENSBTAG00000046417,ENSBTAG00000047016 |
| 7 | 42,825,000 | 42,975,000 | 572 | 1106 | 0.569168675 | ENSBTAG00000027241,ENSBTAG00000045733,ENSBTAG00000046417,ENSBTAG00000046474 |
| 7 | 42,900,000 | 43,050,000 | 573 | 495 | 0.791847466 | OR2AJ1,ENSBTAG00000046474 |
| 7 | 42,975,000 | 43,125,000 | 574 | 861 | 1.113015309 | OR2AJ1,ENSBTAG00000030725,ENSBTAG00000047180 |
| 7 | 43,050,000 | 43,200,000 | 575 | 1138 | 1.089174526 | OR2L13,ENSBTAG00000022690,ENSBTAG00000030725,ENSBTAG00000047180,ENSBTAG00000048025 |
| 7 | 43,125,000 | 43,275,000 | 576 | 991 | 0.668842258 | OR2L13,ENSBTAG00000009497,ENSBTAG00000022690,ENSBTAG00000048025 |
| 7 | 43,200,000 | 43,350,000 | 577 | 1107 | 0.158127881 | OR14C36,OR2M4,ENSBTAG00000009497,ENSBTAG0000019925,ENSBTAG00000038564 |
| 7 | 43,275,000 | 43,425,000 | 578 | 714 | -0.192428458 | OR14C36,OR2M4,OR2T1,OR2T6,ENSBTAG00000019925,ENSBTAG00000038564 |
| 7 | 43,350,000 | 43,500,000 | 579 | 667 | 0.54024757 | OR2T1,OR2T6,ENSBTAG00000003551,ENSBTAG00000034743,ENSBTAG00000038722 |
| 7 | 43,425,000 | 43,575,000 | 580 | 950 | 0.226022805 | ENSBTAG00000003551,ENSBTAG00000021098,ENSBTAG00000034743,ENSBTAG00000038722 |
| 7 | 43,500,000 | 43,650,000 | 581 | 576 | -0.338215033 | ENSBTAG00000021098,ENSBTAG00000046950 |
| 7 | 43,575,000 | 43,725,000 | 582 | 699 | 0.720895109 | ENSBTAG00000030714,ENSBTAG00000046950,ENSBTAG00000047415 |
| 7 | 43,650,000 | 43,800,000 | 583 | 1394 | -0.971432061 | ENSBTAG00000030714,ENSBTAG00000047415,ENSBTAG00000047519 |
| 7 | 43,725,000 | 43,875,000 | 584 | 1721 | -0.613283319 | LYPD8,MGC137030,ENSBTAG00000016065,ENSBTAG00000047519 |
| 7 | 43,800,000 | 43,950,000 | 585 | 1380 | 0.805462083 | LYPD8,MGC137030,SH3BP5L,ENSBTAG00000016065 |
| 7 | 43,875,000 | 44,025,000 | 586 | 920 | 0.821450572 | FLJ20531,SH3BP5L,ZNF672,ENSBTAG00000023507 |
| 7 | 43,950,000 | 44,100,000 | 587 | 835 | 0.886789194 | FLJ20531,PGBD2,ZNF672,ENSBTAG00000023507,ENSBTAG00000046200 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 44,025,000 | 44,175,000 | 588 | 799 | 0.517344345 | PGBD2,ENSBTAG00000009273,ENSBTAG00000046200,ENSBTAG00000046953 |
| 7 | 44,100,000 | 44,250,000 | 589 | 502 | 0.2518586 | ENSBTAG00000009273,ENSBTAG00000046953 |
| 7 | 44,175,000 | 44,325,000 | 590 | 159 | 0.197948955 | ENSBTAG00000009273 |
| 7 | 44,250,000 | 44,400,000 | 591 | 44 | -4.529703563 | |
| 7 | 44,325,000 | 44,475,000 | 592 | 192 | -0.405792949 | ENSBTAG00000045589 |
| 7 | 44,400,000 | 44,550,000 | 593 | 559 | -0.20774439 | ENSBTAG00000045589,ENSBTAG00000045623,ENSBTAG00000046115 |
| 7 | 44,475,000 | 44,625,000 | 594 | 758 | -0.887812162 | MIER2,PPAP2C,ENSBTAG00000045623,ENSBTAG0000046115 |
| 7 | 44,550,000 | 44,700,000 | 595 | 686 | -1.876442511 | MIER2,PPAP2C,THEG |
| 7 | 44,625,000 | 44,775,000 | 596 | 582 | -1.115291921 | C2CD4C,MADCAM1,ODF3L2,SHC2,THEG |
| 7 | 44,700,000 | 44,850,000 | 597 | 569 | -0.062207922 | BSG,C2CD4C,CDC34,GZMM,HCN2,MADCAM1,ODF3L2,SHC2,TPGS1 |
| 7 | 44,775,000 | 44,925,000 | 598 | 437 | -0.11765714 | BSG,CDC34,FGF22,FSTL3,GZMM,HCN2,MADCAM1,POLRMT,PRSS57,RNF126,TPGS1 |
| 7 | 44,850,000 | 45,000,000 | 599 | 233 | -0.485464838 | AZU1,ELA2,FGF22,FSTL3,HCN2,MISP,PALM,POLRMT,PRSS57,PRTN3,RNF126 |
| 7 | 44,925,000 | 45,075,000 | 600 | 187 | -0.733452671 | AZU1,CFD,ELA2,KISS1R,MED16,MISP,PALM,PRTN3,PTBP1,R3HDM4,ENSBTAG00000046245 |
| 7 | 45,000,000 | 45,150,000 | 601 | 169 | -0.366197812 | ARID3A,CFD,GRIN3B,KISS1R,MED16,PTBP1,R3HDM4,TMEM259,WDR18,ENSBTAG00000046245 |
| 7 | 45,075,000 | 45,225,000 | 602 | 136 | 0.268989434 | ABCA7,ARID3A,CNN2,GRIN3B,HMHA1,POLR2E,SBNO2,TMEM259,WDR18 |
| 7 | 45,150,000 | 45,300,000 | 603 | 145 | 0.495699124 | ABCA7,C19orf26,CNN2,HMHA1,POLR2E,SBNO2,STK11 |
| 7 | 45,225,000 | 45,375,000 | 604 | 167 | 0.410036759 | ATP5D,C19orf26,C7H19orf24,CIRBP,EFNA2,MIDN,SBNO2,STK11 |
| 7 | 45,300,000 | 45,450,000 | 605 | 282 | -2.335046074 | ATP5D,C7H19orf24,CIRBP,EFNA2,GAMT,MIDN,MUM1,NDUFS7 |
| 7 | 45,375,000 | 45,525,000 | 606 | 349 | -2.037358185 | APC2,C7H19orf25,DAZAP1,GAMT,MUM1,NDUFS7,PCSK4,REEP6,RPS15 |
| 7 | 45,450,000 | 45,600,000 | 607 | 312 | 0.1395146 | APC2,C7H19orf25,DAZAP1,MBD3,PCSK4,PLK5,REEP6,RPS15,TCF3,UQCR11,ENSBTAG0000006662,ENSBTAG00000046263 |
| 7 | 45,525,000 | 45,675,000 | 608 | 365 | 0.841638882 | MBD3,PLK5,TCF3,UQCR11,ENSBTAG0000006662,ENSBTAG00000046263 |
| 7 | 45,600,000 | 45,750,000 | 609 | 365 | 0.734703222 | ATP8B3,ONECUT3,TCF3 |
| 7 | 45,675,000 | 45,825,000 | 610 | 389 | 0.659778151 | ABHD17A,ATP8B3,KLF16,ONECUT3,REXO1 |
| 7 | 45,750,000 | 45,900,000 | 611 | 566 | 0.663570694 | ABHD17A,ATP8B3,CSNK1G2,KLF16,REXO1,SCAMP4 |
| 7 | 45,825,000 | 45,975,000 | 612 | 676 | 0.836974464 | BTBD2,CSNK1G2,SCAMP4 |
| 7 | 45,900,000 | 46,050,000 | 613 | 870 | 0.764051596 | BTBD2,SHROOM1,SOWAHA,ENSBTAG00000046234 |
| 7 | 45,975,000 | 46,125,000 | 614 | 705 | 0.685585446 | AFF4,GDF9,LEAP2,SHROOM1,SOWAHA,UQCRQ,ENSBTAG00000046234 |
| 7 | 46,050,000 | 46,200,000 | 615 | 434 | 0.452388277 | AFF4,GDF9,LEAP2,UQCRQ,ZCCHC10 |
| 7 | 46,125,000 | 46,275,000 | 616 | 587 | -0.007942058 | AFF4,HSPA4,ZCCHC10 |
| 7 | 46,200,000 | 46,350,000 | 617 | 549 | 0.076287002 | HSPA4,ZCCHC10 |
| 7 | 46,275,000 | 46,425,000 | 618 | 923 | -0.609263308 | HSPA4 |
| 7 | 46,350,000 | 46,500,000 | 619 | 1004 | -0.383174473 | FSTL4 |
| 7 | 46,425,000 | 46,575,000 | 620 | 852 | -0.177479335 | FSTL4 |
| 7 | 46,500,000 | 46,650,000 | 621 | 1034 | -0.868776707 | FSTL4 |
| 7 | 46,575,000 | 46,725,000 | 622 | 942 | -0.437015858 | |
| 7 | 46,650,000 | 46,800,000 | 623 | 911 | 0.462958423 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|------------------------------|
| 7 | 46,725,000 | 46,875,000 | 624 | 976 | 0.286222908 | |
| 7 | 46,800,000 | 46,950,000 | 625 | 782 | -0.080547551 | |
| 7 | 46,875,000 | 47,025,000 | 626 | 585 | -1.019104804 | |
| 7 | 46,950,000 | 47,100,000 | 627 | 891 | -0.949907343 | |
| 7 | 47,025,000 | 47,175,000 | 628 | 1495 | 0.101356336 | |
| 7 | 47,100,000 | 47,250,000 | 629 | 1565 | 0.706838859 | C7H5ORF15,VDAC1 |
| 7 | 47,175,000 | 47,325,000 | 630 | 1080 | 0.801358656 | C7H5ORF15,VDAC1 |
| 7 | 47,250,000 | 47,400,000 | 631 | 620 | 0.740647074 | SKP1,TCF7,VDAC1 |
| 7 | 47,325,000 | 47,475,000 | 632 | 377 | 0.996303207 | PPP2CA,SKP1,TCF7 |
| 7 | 47,400,000 | 47,550,000 | 633 | 509 | 1.204606009 | CDKL3,PPP2CA,SKP1,UBE2B |
| 7 | 47,475,000 | 47,625,000 | 634 | 533 | 1.050396292 | CDKL3,CDKN2AIPNL,UBE2B |
| 7 | 47,550,000 | 47,700,000 | 635 | 434 | 0.468855787 | CDKN2AIPNL,JADE2 |
| 7 | 47,625,000 | 47,775,000 | 636 | 436 | 0.395842996 | JADE2,SAR1B,SEC24A |
| 7 | 47,700,000 | 47,850,000 | 637 | 601 | 0.172715482 | CAMLG,SAR1B,SEC24A |
| 7 | 47,775,000 | 47,925,000 | 638 | 783 | -0.288492817 | C7H5orf24,CAMLG,DDX46,SEC24A |
| 7 | 47,850,000 | 48,000,000 | 639 | 856 | 0.239561061 | C7H5orf24,DDX46,TXNDC15 |
| 7 | 47,925,000 | 48,075,000 | 640 | 771 | 0.348781314 | CATSPER3,PITX1,TXNDC15 |
| 7 | 48,000,000 | 48,150,000 | 641 | 783 | -0.285119304 | CATSPER3,PITX1 |
| 7 | 48,075,000 | 48,225,000 | 642 | 917 | 0.277388725 | |
| 7 | 48,150,000 | 48,300,000 | 643 | 891 | 0.603759177 | |
| 7 | 48,225,000 | 48,375,000 | 644 | 969 | 0.578221949 | |
| 7 | 48,300,000 | 48,450,000 | 645 | 975 | 0.237025436 | H2AFY |
| 7 | 48,375,000 | 48,525,000 | 646 | 938 | 0.000909566 | H2AFY,TIFAB |
| 7 | 48,450,000 | 48,600,000 | 647 | 1050 | 0.698179254 | H2AFY,TIFAB |
| 7 | 48,525,000 | 48,675,000 | 648 | 903 | 0.70791651 | CXCL14,NEUROG1,TIFAB |
| 7 | 48,600,000 | 48,750,000 | 649 | 1011 | -0.112306871 | CXCL14,NEUROG1 |
| 7 | 48,675,000 | 48,825,000 | 650 | 1228 | -0.454429099 | |
| 7 | 48,750,000 | 48,900,000 | 651 | 1143 | -0.155372927 | SLC25A48 |
| 7 | 48,825,000 | 48,975,000 | 652 | 845 | 0.130367345 | FBXL21,IL9,SLC25A48 |
| 7 | 48,900,000 | 49,050,000 | 653 | 440 | -0.025541822 | FBXL21,IL9,LECT2,SLC25A48 |
| 7 | 48,975,000 | 49,125,000 | 654 | 386 | -3.264844378 | FBXL21,LECT2,TGFBI |
| 7 | 49,050,000 | 49,200,000 | 655 | 448 | -4.282538353 | SMAD5,TGFBI |
| 7 | 49,125,000 | 49,275,000 | 656 | 415 | -2.27228907 | SMAD5,TRPC7 |
| 7 | 49,200,000 | 49,350,000 | 657 | 404 | -0.312702652 | SMAD5,TRPC7 |
| 7 | 49,275,000 | 49,425,000 | 658 | 514 | 0.344642761 | TRPC7 |
| 7 | 49,350,000 | 49,500,000 | 659 | 645 | 1.122115754 | TRPC7 |
| 7 | 49,425,000 | 49,575,000 | 660 | 854 | 1.313818479 | |
| 7 | 49,500,000 | 49,650,000 | 661 | 916 | 1.041936811 | |
| 7 | 49,575,000 | 49,725,000 | 662 | 709 | 0.939785178 | |
| 7 | 49,650,000 | 49,800,000 | 663 | 806 | 0.950668403 | |
| 7 | 49,725,000 | 49,875,000 | 664 | 1111 | 1.150118478 | |
| 7 | 49,800,000 | 49,950,000 | 665 | 1127 | 1.187731559 | |
| 7 | 49,875,000 | 50,025,000 | 666 | 1021 | 0.605964704 | SPOCK1 |
| 7 | 49,950,000 | 50,100,000 | 667 | 769 | 0.337452935 | SPOCK1 |
| 7 | 50,025,000 | 50,175,000 | 668 | 859 | 0.196780322 | |
| 7 | 50,100,000 | 50,250,000 | 669 | 1127 | 0.012517271 | |
| 7 | 50,175,000 | 50,325,000 | 670 | 1092 | 0.019463963 | |
| 7 | 50,250,000 | 50,400,000 | 671 | 1130 | 0.363566468 | |
| 7 | 50,325,000 | 50,475,000 | 672 | 894 | 0.737436247 | |
| 7 | 50,400,000 | 50,550,000 | 673 | 694 | 0.470636588 | |
| 7 | 50,475,000 | 50,625,000 | 674 | 863 | -0.688552107 | |
| 7 | 50,550,000 | 50,700,000 | 675 | 655 | -0.447030914 | KLHL3 |
| 7 | 50,625,000 | 50,775,000 | 676 | 345 | 1.259052328 | KLHL3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 50,700,000 | 50,850,000 | 677 | 279 | 1.221307436 | HNRPA0,KLHL3 |
| 7 | 50,775,000 | 50,925,000 | 678 | 198 | 0.828525567 | HNRPA0 |
| 7 | 50,850,000 | 51,000,000 | 679 | 216 | 0.473137255 | MYOT,PKD2L2 |
| 7 | 50,925,000 | 51,075,000 | 680 | 187 | -1.153061127 | FAM13B,MYOT,PKD2L2 |
| 7 | 51,000,000 | 51,150,000 | 681 | 141 | -6.78386318 | FAM13B,PKD2L2,WNT8A |
| 7 | 51,075,000 | 51,225,000 | 682 | 129 | -9.732361863 | BRD8,CDC23,KIF20A,NME5,WNT8A |
| 7 | 51,150,000 | 51,300,000 | 683 | 78 | -8.441617118 | BRD8,CDC23,GFRA3,KIF20A,NME5 |
| 7 | 51,225,000 | 51,375,000 | 684 | 61 | 1.176296094 | CDC23,CDC25C,FAM53C,GFRA3,KDM3B,SLBP2 |
| 7 | 51,300,000 | 51,450,000 | 685 | 74 | 0.978716354 | CDC25C,EGR1,FAM53C,GFRA3,KDM3B,REEP2,SLBP2 |
| 7 | 51,375,000 | 51,525,000 | 686 | 135 | 0.838413062 | EGR1,ETF1,HSPA9,KDM3B,REEP2 |
| 7 | 51,450,000 | 51,600,000 | 687 | 312 | 0.499463612 | ETF1,HSPA9 |
| 7 | 51,525,000 | 51,675,000 | 688 | 364 | 0.407090309 | |
| 7 | 51,600,000 | 51,750,000 | 689 | 304 | 0.45497403 | CTNNA1 |
| 7 | 51,675,000 | 51,825,000 | 690 | 330 | 0.678956203 | CTNNA1,LRRTM2 |
| 7 | 51,750,000 | 51,900,000 | 691 | 412 | 1.157063725 | CTNNA1,LRRTM2,SIL1 |
| 7 | 51,825,000 | 51,975,000 | 692 | 323 | 1.246179741 | CTNNA1,GPX4,SIL1 |
| 7 | 51,900,000 | 52,050,000 | 693 | 178 | 1.095502108 | GPX4,SIL1 |
| 7 | 51,975,000 | 52,125,000 | 694 | 199 | 1.007123244 | SIL1 |
| 7 | 52,050,000 | 52,200,000 | 695 | 175 | 1.271813888 | SIL1 |
| 7 | 52,125,000 | 52,275,000 | 696 | 176 | 1.249629073 | PAIP2,SIL1,SLC23A1,ENSBTAG00000006756 |
| 7 | 52,200,000 | 52,350,000 | 697 | 192 | 1.121378145 | DNAJC18,ECSCR,MZB1,PAIP2,PROB1,SLC23A1,SPATA24,ENSBTAG00000006756 |
| 7 | 52,275,000 | 52,425,000 | 698 | 156 | 1.227911514 | DNAJC18,ECSCR,MZB1,PROB1,SLC23A1,SPATA24,TEM173,UBE2D2,ENSBTAG000000030517 |
| 7 | 52,350,000 | 52,500,000 | 699 | 148 | 1.33743778 | ECSCR,TMEM173,UBE2D2,ENSBTAG000000030517 |
| 7 | 52,425,000 | 52,575,000 | 700 | 158 | 1.225009246 | CXXC5,UBE2D2 |
| 7 | 52,500,000 | 52,650,000 | 701 | 660 | 0.171158931 | CXXC5 |
| 7 | 52,575,000 | 52,725,000 | 702 | 704 | 0.426172326 | NRG2,PSD2 |
| 7 | 52,650,000 | 52,800,000 | 703 | 286 | 0.317276211 | NRG2,PSD2 |
| 7 | 52,725,000 | 52,875,000 | 704 | 315 | -0.092604446 | NRG2 |
| 7 | 52,800,000 | 52,950,000 | 705 | 305 | 0.285014996 | |
| 7 | 52,875,000 | 53,025,000 | 706 | 255 | 0.527485092 | IGIP,PURA |
| 7 | 52,950,000 | 53,100,000 | 707 | 311 | 1.306173209 | CYSTM1,IGIP,PURA |
| 7 | 53,025,000 | 53,175,000 | 708 | 354 | 0.027489568 | CYSTM1,PFDN1 |
| 7 | 53,100,000 | 53,250,000 | 709 | 282 | -0.868192575 | CYSTM1,HBEGF,PFDN1,SLC4A9 |
| 7 | 53,175,000 | 53,325,000 | 710 | 241 | 0.05864599 | EIF4EBP3,HBEGF,PFDN1,SLC4A9 |
| 7 | 53,250,000 | 53,400,000 | 711 | 194 | 0.601965983 | EIF4EBP3,SLC4A9 |
| 7 | 53,325,000 | 53,475,000 | 712 | 211 | 0.728762032 | APBB3,CD14,EIF4EBP3,IK,NDUFA2,SLC35A4,SRA1,TMCO6,ENSBTAG00000003987 |
| 7 | 53,400,000 | 53,550,000 | 713 | 538 | -0.16701944 | APBB3,CD14,DND1,EIF4EBP3,HARS,HARS2,IK,NDUFA2,SLC35A4,SRA1,TMCO6,WDR55,ZMAT2,ENSBTAG00000003987 |
| 7 | 53,475,000 | 53,625,000 | 714 | 1128 | -1.368580297 | DND1,HARS,HARS2,IK,PCDHA3,PCDHA5,WDR55,ZMAT2,ENSBTAG00000015439,ENSBTAG00000046717 |
| 7 | 53,550,000 | 53,700,000 | 715 | 957 | -1.61686624 | PCDHA11,PCDHA13,PCDHA3,PCDHA5,ENSBTAG00000015439,ENSBTAG00000046717 |
| 7 | 53,625,000 | 53,775,000 | 716 | 434 | -0.468824385 | PCDHA11,PCDHA13 |
| 7 | 53,700,000 | 53,850,000 | 717 | 294 | 0.514352915 | PCDHA13 |
| 7 | 53,775,000 | 53,925,000 | 718 | 624 | 0.612554375 | PCDHA13,PCDHB1,PCDHB4,ENSBTAG00000045858 |
| 7 | 53,850,000 | 54,000,000 | 719 | 953 | 0.601706418 | PCDHB1,PCDHB16,PCDHB4,PCDHB5,PCDHB6,PCDHB7,ENSBTAG00000045743,ENSBTAG00000045858,ENSBTAG00000045859 |

| | | | | | | |
|---|------------|------------|-----|-----|--------------|--|
| 7 | 53,925,000 | 54,075,000 | 720 | 680 | 0.554549297 | PCDHB11,PCDHB14,PCDHB15,PCDHB16,PCDHB5,PCDHB6,PCDHB7,ENSBTAG00000007350,ENSBTAG0000045743,ENSBTAG00000045859 |
| 7 | 54,000,000 | 54,150,000 | 721 | 582 | 1.155621596 | PCDHB11,PCDHB14,PCDHB15,PCDHGA2,PCDHGA3,PCDHGA5,PCDHGA7,PCDHGB1,TAF7,ENSBTAG0000007350,ENSBTAG00000046103 |
| 7 | 54,075,000 | 54,225,000 | 722 | 790 | 1.454910075 | PCDHGA2,PCDHGA3,PCDHGA5,PCDHGA7,PCDHGA8,PCDHGB1,TAF7,ENSBTAG00000046103,ENSBTAG000047946 |
| 7 | 54,150,000 | 54,300,000 | 723 | 573 | 1.442359092 | DIAPH1,PCDHGA7,PCDHGA8,ENSBTAG00000047946 |
| 7 | 54,225,000 | 54,375,000 | 724 | 268 | 1.2041672 | DIAPH1,PCDHGA8,RELL2 |
| 7 | 54,300,000 | 54,450,000 | 725 | 267 | 1.203475485 | ARAP3,DIAPH1,HDAC3,RELL2 |
| 7 | 54,375,000 | 54,525,000 | 726 | 279 | 1.169992911 | ARAP3,DIAPH1,HDAC3 |
| 7 | 54,450,000 | 54,600,000 | 727 | 374 | 1.209569551 | ARAP3 |
| 7 | 54,525,000 | 54,675,000 | 728 | 332 | 1.342514501 | KIAA0141,PCDH1 |
| 7 | 54,600,000 | 54,750,000 | 729 | 278 | 1.351139752 | GNPDA1,KIAA0141,PCDH1,PCDH12,RNF14 |
| 7 | 54,675,000 | 54,825,000 | 730 | 563 | 0.410877236 | GNPDA1,KIAA0141,PCDH12,RNF14 |
| 7 | 54,750,000 | 54,900,000 | 731 | 582 | -0.722929125 | GNPDA1,ENSBTAG00000018503 |
| 7 | 54,825,000 | 54,975,000 | 732 | 448 | -1.251332386 | ENSBTAG00000018503 |
| 7 | 54,900,000 | 55,050,000 | 733 | 413 | -1.048040483 | ENSBTAG00000012339,ENSBTAG00000016789,ENSBTAG00000045651 |
| 7 | 54,975,000 | 55,125,000 | 734 | 286 | -0.465679409 | NDFIP1,ENSBTAG00000012339,ENSBTAG00000016789,ENSBTAG00000045651 |
| 7 | 55,050,000 | 55,200,000 | 735 | 258 | -0.386353429 | NDFIP1 |
| 7 | 55,125,000 | 55,275,000 | 736 | 236 | 0.21200985 | SPRY4 |
| 7 | 55,200,000 | 55,350,000 | 737 | 228 | 1.212351387 | SPRY4 |
| 7 | 55,275,000 | 55,425,000 | 738 | 298 | 0.930899903 | |
| 7 | 55,350,000 | 55,500,000 | 739 | 327 | 0.473452627 | |
| 7 | 55,425,000 | 55,575,000 | 740 | 276 | 0.142575399 | FGF1 |
| 7 | 55,500,000 | 55,650,000 | 741 | 376 | 0.700255585 | FGF1 |
| 7 | 55,575,000 | 55,725,000 | 742 | 526 | 0.175991216 | FGF1 |
| 7 | 55,650,000 | 55,800,000 | 743 | 542 | -0.231925304 | |
| 7 | 55,725,000 | 55,875,000 | 744 | 489 | -0.312104113 | ARHGAP26 |
| 7 | 55,800,000 | 55,950,000 | 745 | 323 | -1.139262795 | ARHGAP26 |
| 7 | 55,875,000 | 56,025,000 | 746 | 199 | -3.984126462 | ARHGAP26 |
| 7 | 55,950,000 | 56,100,000 | 747 | 272 | -3.364636924 | ARHGAP26 |
| 7 | 56,025,000 | 56,175,000 | 748 | 333 | -2.010051327 | ARHGAP26 |
| 7 | 56,100,000 | 56,250,000 | 749 | 331 | -0.608465858 | ARHGAP26,GR-A |
| 7 | 56,175,000 | 56,325,000 | 750 | 321 | 0.339540958 | GR-A |
| 7 | 56,250,000 | 56,400,000 | 751 | 321 | -0.524762894 | GR-A |
| 7 | 56,325,000 | 56,475,000 | 752 | 294 | -1.363200499 | GR-A |
| 7 | 56,400,000 | 56,550,000 | 753 | 347 | -0.21258269 | |
| 7 | 56,475,000 | 56,625,000 | 754 | 249 | 0.175084823 | |
| 7 | 56,550,000 | 56,700,000 | 755 | 307 | 0.876734009 | |
| 7 | 56,625,000 | 56,775,000 | 756 | 432 | 0.186637904 | |
| 7 | 56,700,000 | 56,850,000 | 757 | 357 | -0.914047203 | |
| 7 | 56,775,000 | 56,925,000 | 758 | 410 | -0.390289377 | |
| 7 | 56,850,000 | 57,000,000 | 759 | 379 | 0.747294108 | |
| 7 | 56,925,000 | 57,075,000 | 760 | 276 | 0.849832355 | |
| 7 | 57,000,000 | 57,150,000 | 761 | 232 | 0.289168326 | |
| 7 | 57,075,000 | 57,225,000 | 762 | 340 | 0.130294372 | YIPF5 |
| 7 | 57,150,000 | 57,300,000 | 763 | 420 | 0.292195057 | KCTD16,YIPF5,ENSBTAG00000010283 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 7 | 57,225,000 | 57,375,000 | 764 | 691 | -0.306337205 | KCTD16,ENSBTAG00000010283 |
| 7 | 57,300,000 | 57,450,000 | 765 | 947 | -0.027320219 | KCTD16 |
| 7 | 57,375,000 | 57,525,000 | 766 | 917 | 0.571439447 | KCTD16 |
| 7 | 57,450,000 | 57,600,000 | 767 | 784 | 0.754497313 | KCTD16 |
| 7 | 57,525,000 | 57,675,000 | 768 | 830 | 1.002137197 | KCTD16 |
| 7 | 57,600,000 | 57,750,000 | 769 | 876 | 0.34649223 | |
| 7 | 57,675,000 | 57,825,000 | 770 | 1081 | 0.08782949 | |
| 7 | 57,750,000 | 57,900,000 | 771 | 1223 | 0.639697495 | |
| 7 | 57,825,000 | 57,975,000 | 772 | 1025 | 0.330983889 | |
| 7 | 57,900,000 | 58,050,000 | 773 | 750 | 0.14238125 | |
| 7 | 57,975,000 | 58,125,000 | 774 | 630 | 0.776179577 | |
| 7 | 58,050,000 | 58,200,000 | 775 | 663 | 0.772376291 | |
| 7 | 58,125,000 | 58,275,000 | 776 | 843 | -0.109559248 | |
| 7 | 58,200,000 | 58,350,000 | 777 | 951 | -0.325617912 | |
| 7 | 58,275,000 | 58,425,000 | 778 | 881 | 0.247303216 | |
| 7 | 58,350,000 | 58,500,000 | 779 | 678 | 0.365595443 | |
| 7 | 58,425,000 | 58,575,000 | 780 | 639 | 0.584432047 | |
| 7 | 58,500,000 | 58,650,000 | 781 | 924 | 0.87664918 | |
| 7 | 58,575,000 | 58,725,000 | 782 | 1016 | 0.928431334 | |
| 7 | 58,650,000 | 58,800,000 | 783 | 981 | 0.681495085 | |
| 7 | 58,725,000 | 58,875,000 | 784 | 1167 | -0.356543089 | |
| 7 | 58,800,000 | 58,950,000 | 785 | 1327 | -0.870797643 | PRELID2 |
| 7 | 58,875,000 | 59,025,000 | 786 | 976 | -1.222701294 | PRELID2 |
| 7 | 58,950,000 | 59,100,000 | 787 | 943 | -1.717962383 | GRXCR2,PRELID2 |
| 7 | 59,025,000 | 59,175,000 | 788 | 1103 | -0.342950984 | GRXCR2,SH3RF2 |
| 7 | 59,100,000 | 59,250,000 | 789 | 1082 | 1.062150667 | SH3RF2 |
| 7 | 59,175,000 | 59,325,000 | 790 | 978 | 1.016863127 | LARS,PLAC8L1,SH3RF2 |
| 7 | 59,250,000 | 59,400,000 | 791 | 706 | 0.745552453 | LARS,PLAC8L1,SH3RF2 |
| 7 | 59,325,000 | 59,475,000 | 792 | 496 | 0.030327106 | LARS,ENSBTAG00000011642 |
| 7 | 59,400,000 | 59,550,000 | 793 | 427 | -0.362878844 | POU4F3,ENSBTAG00000011642 |
| 7 | 59,475,000 | 59,625,000 | 794 | 621 | -0.011351218 | POU4F3 |
| 7 | 59,550,000 | 59,700,000 | 795 | 779 | -1.009679213 | GPR151,TCERG1 |
| 7 | 59,625,000 | 59,775,000 | 796 | 909 | -2.580966827 | GPR151,TCERG1 |
| 7 | 59,700,000 | 59,850,000 | 797 | 935 | -1.666594179 | PPP2R2B |
| 7 | 59,775,000 | 59,925,000 | 798 | 817 | -0.589756036 | PPP2R2B |
| 7 | 59,850,000 | 60,000,000 | 799 | 817 | -0.602892004 | PPP2R2B |
| 7 | 59,925,000 | 60,075,000 | 800 | 511 | -0.354130204 | PPP2R2B |
| 7 | 60,000,000 | 60,150,000 | 801 | 330 | -0.230002082 | PPP2R2B |
| 7 | 60,075,000 | 60,225,000 | 802 | 724 | 0.22441022 | PPP2R2B |
| 7 | 60,150,000 | 60,300,000 | 803 | 958 | 0.600010023 | |
| 7 | 60,225,000 | 60,375,000 | 804 | 939 | 0.71509154 | |
| 7 | 60,300,000 | 60,450,000 | 805 | 1216 | -0.000166997 | |
| 7 | 60,375,000 | 60,525,000 | 806 | 1077 | -0.853206546 | STK32A |
| 7 | 60,450,000 | 60,600,000 | 807 | 1016 | -0.968144313 | DPYSL3,STK32A |
| 7 | 60,525,000 | 60,675,000 | 808 | 1134 | -0.276148975 | DPYSL3,STK32A |
| 7 | 60,600,000 | 60,750,000 | 809 | 1067 | 0.13106277 | DPYSL3 |
| 7 | 60,675,000 | 60,825,000 | 810 | 1060 | 0.582525 | DPYSL3,JAKMIP2 |
| 7 | 60,750,000 | 60,900,000 | 811 | 1064 | -0.657403079 | JAKMIP2 |
| 7 | 60,825,000 | 60,975,000 | 812 | 1258 | -0.435386195 | JAKMIP2 |
| 7 | 60,900,000 | 61,050,000 | 813 | 1245 | -0.467635845 | JAKMIP2,SPINK1,ENSBTAG00000047835 |
| 7 | 60,975,000 | 61,125,000 | 814 | 1244 | -0.497357645 | JAKMIP2,SCGB3A2,SPINK1,ENSBTAG00000047835 |
| 7 | 61,050,000 | 61,200,000 | 815 | 1171 | 0.004451844 | C7H5orf46,SCGB3A2 |
| 7 | 61,125,000 | 61,275,000 | 816 | 875 | -0.229588498 | C7H5orf46 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 7 | 61,200,000 | 61,350,000 | 817 | 783 | -0.081865105 | SPINK5 |
| 7 | 61,275,000 | 61,425,000 | 818 | 873 | 0.372933 | SPINK5 |
| 7 | 61,350,000 | 61,500,000 | 819 | 892 | 0.072578829 | SPINK5,SPINK6 |
| 7 | 61,425,000 | 61,575,000 | 820 | 662 | -0.507723916 | SPINK6 |
| 7 | 61,500,000 | 61,650,000 | 821 | 685 | -1.502898904 | ENSBTAG00000033759 |
| 7 | 61,575,000 | 61,725,000 | 822 | 1055 | -0.025217306 | SPINK7,ENSBTAG00000033759 |
| 7 | 61,650,000 | 61,800,000 | 823 | 915 | 0.458199471 | SPINK7,ENSBTAG00000033759 |
| 7 | 61,725,000 | 61,875,000 | 824 | 397 | 0.301214729 | FBXO38,SPINK7,ENSBTAG00000033759 |
| 7 | 61,800,000 | 61,950,000 | 825 | 260 | -0.794268279 | FBXO38,HTR4,ENSBTAG00000047660 |
| 7 | 61,875,000 | 62,025,000 | 826 | 337 | -2.320096083 | HTR4,ENSBTAG00000047660 |
| 7 | 61,950,000 | 62,100,000 | 827 | 425 | -1.198100898 | HTR4 |
| 7 | 62,025,000 | 62,175,000 | 828 | 859 | 0.311089379 | HTR4 |
| 7 | 62,100,000 | 62,250,000 | 829 | 922 | 0.4598226 | ADRB2 |
| 7 | 62,175,000 | 62,325,000 | 830 | 559 | 0.811238569 | ADRB2 |
| 7 | 62,250,000 | 62,400,000 | 831 | 433 | 1.33387488 | SH3TC2 |
| 7 | 62,325,000 | 62,475,000 | 832 | 360 | 1.343565224 | SH3TC2 |
| 7 | 62,400,000 | 62,550,000 | 833 | 439 | 0.743360482 | ABLIM3,SH3TC2 |
| 7 | 62,475,000 | 62,625,000 | 834 | 474 | 0.746718303 | ABLIM3 |
| 7 | 62,550,000 | 62,700,000 | 835 | 435 | 0.600434804 | ABLIM3,AFAP1L1 |
| 7 | 62,625,000 | 62,775,000 | 836 | 389 | -0.277558756 | ABLIM3,AFAP1L1,GRPEL2,IL17B,PCYOX1L |
| 7 | 62,700,000 | 62,850,000 | 837 | 411 | 0.052076189 | AFAP1L1,GRPEL2,IL17B,PCYOX1L |
| 7 | 62,775,000 | 62,925,000 | 838 | 397 | 0.355005861 | ARHGEF37,CSNK1A1 |
| 7 | 62,850,000 | 63,000,000 | 839 | 631 | 0.989068738 | ARHGEF37,CSNK1A1 |
| 7 | 62,925,000 | 63,075,000 | 840 | 661 | 0.840734151 | ARHGEF37 |
| 7 | 63,000,000 | 63,150,000 | 841 | 656 | 0.11691296 | |
| 7 | 63,075,000 | 63,225,000 | 842 | 795 | 0.66494592 | PDE6A,PPARGC1B |
| 7 | 63,150,000 | 63,300,000 | 843 | 531 | 0.997091404 | PDE6A,PPARGC1B,SLC26A2 |
| 7 | 63,225,000 | 63,375,000 | 844 | 496 | 1.12826926 | HMGXB3,PDE6A,SLC26A2 |
| 7 | 63,300,000 | 63,450,000 | 845 | 514 | 1.133720279 | CSF1R,HMGXB3 |
| 7 | 63,375,000 | 63,525,000 | 846 | 507 | 0.713207595 | CDX1,CSF1R,HMGXB3,PDGFRB |
| 7 | 63,450,000 | 63,600,000 | 847 | 463 | 0.656087725 | CAMK2A,CDX1,PDGFRB,SLC6A7 |
| 7 | 63,525,000 | 63,675,000 | 848 | 308 | 0.621285945 | ARSI,CAMK2A,PDGFRB,SLC6A7 |
| 7 | 63,600,000 | 63,750,000 | 849 | 272 | 0.588238067 | ARSI,CAMK2A,CD74,TCOF1 |
| 7 | 63,675,000 | 63,825,000 | 850 | 279 | -1.903126109 | CD74,NDST1,RPS14,TCOF1 |
| 7 | 63,750,000 | 63,900,000 | 851 | 273 | -2.518882742 | CD74,NDST1,RPS14 |
| 7 | 63,825,000 | 63,975,000 | 852 | 440 | -0.589161498 | NDST1 |
| 7 | 63,900,000 | 64,050,000 | 853 | 571 | 0.080069557 | MYOZ3,NDST1,SYNPO |
| 7 | 63,975,000 | 64,125,000 | 854 | 757 | 0.77841601 | DCTN4,MYOZ3,RBM22,SYNPO |
| 7 | 64,050,000 | 64,200,000 | 855 | 975 | 0.102735704 | DCTN4,MGC128424,RBM22 |
| 7 | 64,125,000 | 64,275,000 | 856 | 894 | -0.185953842 | MGC128424,ZNF300,ENSBTAG00000046873 |
| 7 | 64,200,000 | 64,350,000 | 857 | 783 | 0.600983495 | GPX3,TNIP1,ZNF300,ENSBTAG00000046873 |
| 7 | 64,275,000 | 64,425,000 | 858 | 847 | 0.626255646 | ANXA6,GPX3,TNIP1 |
| 7 | 64,350,000 | 64,500,000 | 859 | 754 | 0.478534968 | ANXA6,CCDC69,GM2A,ENSBTAG00000045615 |
| 7 | 64,425,000 | 64,575,000 | 860 | 867 | -0.768211182 | CCDC69,GM2A,SLC36A2,SLC36A3,ENSBTAG00000045615 |
| 7 | 64,500,000 | 64,650,000 | 861 | 1081 | -0.755518205 | GM2A,SLC36A2,SLC36A3 |
| 7 | 64,575,000 | 64,725,000 | 862 | 985 | 0.561142703 | FAT2,SLC36A1,SLC36A2 |
| 7 | 64,650,000 | 64,800,000 | 863 | 775 | 0.848857386 | FAT2,SLC36A1,ENSBTAG00000047625 |
| 7 | 64,725,000 | 64,875,000 | 864 | 609 | 0.25555805 | FAT2,ENSBTAG00000047625 |
| 7 | 64,800,000 | 64,950,000 | 865 | 890 | 0.334013878 | ATOX1,SPARC |
| 7 | 64,875,000 | 65,025,000 | 866 | 984 | 0.193809532 | ATOX1,G3BP,SPARC |
| 7 | 64,950,000 | 65,100,000 | 867 | 812 | 0.116758591 | ATOX1,G3BP,GLRA1 |
| 7 | 65,025,000 | 65,175,000 | 868 | 793 | 0.612147347 | GLRA1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------|
| 7 | 65,100,000 | 65,250,000 | 869 | 952 | 0.665396169 | GLRA1 |
| 7 | 65,175,000 | 65,325,000 | 870 | 1263 | 0.298907321 | |
| 7 | 65,250,000 | 65,400,000 | 871 | 1239 | 0.166126396 | |
| 7 | 65,325,000 | 65,475,000 | 872 | 809 | 0.33405847 | |
| 7 | 65,400,000 | 65,550,000 | 873 | 595 | 0.497134332 | |
| 7 | 65,475,000 | 65,625,000 | 874 | 845 | 0.73364663 | |
| 7 | 65,550,000 | 65,700,000 | 875 | 907 | 0.561100584 | NMUR2 |
| 7 | 65,625,000 | 65,775,000 | 876 | 609 | 0.377901962 | NMUR2 |
| 7 | 65,700,000 | 65,850,000 | 877 | 441 | 0.039654127 | |
| 7 | 65,775,000 | 65,925,000 | 878 | 748 | 0.241605248 | |
| 7 | 65,850,000 | 66,000,000 | 879 | 1221 | 0.649718575 | |
| 7 | 65,925,000 | 66,075,000 | 880 | 1439 | 0.749930408 | |
| 7 | 66,000,000 | 66,150,000 | 881 | 1447 | 0.780085546 | |
| 7 | 66,075,000 | 66,225,000 | 882 | 1463 | 0.561213452 | |
| 7 | 66,150,000 | 66,300,000 | 883 | 1504 | 0.163652149 | |
| 7 | 66,225,000 | 66,375,000 | 884 | 941 | 0.151978268 | |
| 7 | 66,300,000 | 66,450,000 | 885 | 633 | 0.547306007 | |
| 7 | 66,375,000 | 66,525,000 | 886 | 896 | 0.921572683 | |
| 7 | 66,450,000 | 66,600,000 | 887 | 962 | 1.191747676 | |
| 7 | 66,525,000 | 66,675,000 | 888 | 1105 | 0.802603615 | |
| 7 | 66,600,000 | 66,750,000 | 889 | 985 | 0.010693467 | |
| 7 | 66,675,000 | 66,825,000 | 890 | 836 | -0.466146041 | GRIA1 |
| 7 | 66,750,000 | 66,900,000 | 891 | 840 | 0.168409745 | GRIA1 |
| 7 | 66,825,000 | 66,975,000 | 892 | 934 | 0.387150091 | GRIA1 |
| 7 | 66,900,000 | 67,050,000 | 893 | 1165 | 0.43220601 | GRIA1 |
| 7 | 66,975,000 | 67,125,000 | 894 | 1338 | 0.76737328 | GRIA1 |
| 7 | 67,050,000 | 67,200,000 | 895 | 1205 | 0.50301924 | GRIA1 |
| 7 | 67,125,000 | 67,275,000 | 896 | 1167 | 0.085858778 | |
| 7 | 67,200,000 | 67,350,000 | 897 | 1041 | 0.416782221 | FAM114A2,MFAP3 |
| 7 | 67,275,000 | 67,425,000 | 898 | 940 | 0.665431506 | FAM114A2,MFAP3,SMIM15 |
| 7 | 67,350,000 | 67,500,000 | 899 | 1009 | 0.736788402 | GALNT10,SMIM15 |
| 7 | 67,425,000 | 67,575,000 | 900 | 743 | 0.513515022 | GALNT10 |
| 7 | 67,500,000 | 67,650,000 | 901 | 536 | -0.319949354 | GALNT10 |
| 7 | 67,575,000 | 67,725,000 | 902 | 314 | -2.195898105 | GALNT10,HAND1 |
| 7 | 67,650,000 | 67,800,000 | 903 | 276 | -2.573426832 | GALNT10,HAND1,SAP30L |
| 7 | 67,725,000 | 67,875,000 | 904 | 398 | -1.329545088 | SAP30L |
| 7 | 67,800,000 | 67,950,000 | 905 | 346 | -0.801472832 | |
| 7 | 67,875,000 | 68,025,000 | 906 | 255 | -0.9717729 | LARP1 |
| 7 | 67,950,000 | 68,100,000 | 907 | 324 | 0.078785646 | CNOT8,GEMIN5,LARP1 |
| 7 | 68,025,000 | 68,175,000 | 908 | 637 | 0.260608733 | CNOT8,GEMIN5,MRPL22 |
| 7 | 68,100,000 | 68,250,000 | 909 | 621 | 0.093953899 | GEMIN5,MRPL22 |
| 7 | 68,175,000 | 68,325,000 | 910 | 362 | -0.498435989 | |
| 7 | 68,250,000 | 68,400,000 | 911 | 449 | -0.056803534 | |
| 7 | 68,325,000 | 68,475,000 | 912 | 466 | 0.413069815 | |
| 7 | 68,400,000 | 68,550,000 | 913 | 419 | -0.147162985 | |
| 7 | 68,475,000 | 68,625,000 | 914 | 589 | -0.144339153 | |
| 7 | 68,550,000 | 68,700,000 | 915 | 893 | -2.465415976 | |
| 7 | 68,625,000 | 68,775,000 | 916 | 824 | -2.80131287 | |
| 7 | 68,700,000 | 68,850,000 | 917 | 571 | -0.81754195 | |
| 7 | 68,775,000 | 68,925,000 | 918 | 598 | -0.346097135 | |
| 7 | 68,850,000 | 69,000,000 | 919 | 863 | 0.35960793 | |
| 7 | 68,925,000 | 69,075,000 | 920 | 1103 | 0.073140154 | |
| 7 | 69,000,000 | 69,150,000 | 921 | 1060 | 0.272326995 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 7 | 69,075,000 | 69,225,000 | 922 | 735 | 0.795618233 | |
| 7 | 69,150,000 | 69,300,000 | 923 | 836 | 0.822856866 | |
| 7 | 69,225,000 | 69,375,000 | 924 | 1217 | 0.387644418 | |
| 7 | 69,300,000 | 69,450,000 | 925 | 1275 | -0.201672845 | |
| 7 | 69,375,000 | 69,525,000 | 926 | 1463 | 0.390582264 | |
| 7 | 69,450,000 | 69,600,000 | 927 | 1544 | 0.328057807 | SGCD |
| 7 | 69,525,000 | 69,675,000 | 928 | 1645 | 0.069843308 | SGCD |
| 7 | 69,600,000 | 69,750,000 | 929 | 1381 | 0.646345629 | SGCD |
| 7 | 69,675,000 | 69,825,000 | 930 | 1112 | 0.669073633 | SGCD |
| 7 | 69,750,000 | 69,900,000 | 931 | 1399 | 0.818796226 | SGCD |
| 7 | 69,825,000 | 69,975,000 | 932 | 1572 | 0.231427506 | SGCD |
| 7 | 69,900,000 | 70,050,000 | 933 | 1280 | -0.391782214 | SGCD |
| 7 | 69,975,000 | 70,125,000 | 934 | 1359 | 0.291759844 | SGCD |
| 7 | 70,050,000 | 70,200,000 | 935 | 1464 | 0.515485423 | |
| 7 | 70,125,000 | 70,275,000 | 936 | 1216 | 0.42719384 | MGC137099 |
| 7 | 70,200,000 | 70,350,000 | 937 | 1362 | -0.028746073 | MGC137099,TIMD4 |
| 7 | 70,275,000 | 70,425,000 | 938 | 1720 | 0.00989014 | TIMD4 |
| 7 | 70,350,000 | 70,500,000 | 939 | 1539 | -0.098150306 | |
| 7 | 70,425,000 | 70,575,000 | 940 | 1034 | -0.371016628 | |
| 7 | 70,500,000 | 70,650,000 | 941 | 1240 | 0.082642152 | |
| 7 | 70,575,000 | 70,725,000 | 942 | 1454 | 0.186958721 | ENSBTAG00000036102 |
| 7 | 70,650,000 | 70,800,000 | 943 | 1292 | 0.284441121 | ENSBTAG00000036102 |
| 7 | 70,725,000 | 70,875,000 | 944 | 1247 | 0.928581568 | HAVCR2,ENSBTAG00000036102 |
| 7 | 70,800,000 | 70,950,000 | 945 | 1254 | 1.054038336 | FAM71B,HAVCR2,ITK |
| 7 | 70,875,000 | 71,025,000 | 946 | 1362 | -0.021637301 | CYFIP2,FAM71B,ITK |
| 7 | 70,950,000 | 71,100,000 | 947 | 1432 | 0.207467529 | CYFIP2,FNDC9,ITK |
| 7 | 71,025,000 | 71,175,000 | 948 | 1082 | 0.824046443 | ADAM19,CYFIP2,FNDC9,NIPAL4 |
| 7 | 71,100,000 | 71,250,000 | 949 | 756 | -0.43298579 | ADAM19,CYFIP2,NIPAL4 |
| 7 | 71,175,000 | 71,325,000 | 950 | 520 | -0.728962071 | ADAM19,SOX30 |
| 7 | 71,250,000 | 71,400,000 | 951 | 321 | 0.954838333 | ADAM19,LSM11,SOX30,THG1L |
| 7 | 71,325,000 | 71,475,000 | 952 | 271 | 0.88274507 | CLINT1,LSM11,SOX30,THG1L |
| 7 | 71,400,000 | 71,550,000 | 953 | 310 | 0.916372403 | CLINT1 |
| 7 | 71,475,000 | 71,625,000 | 954 | 280 | 0.18322708 | CLINT1 |
| 7 | 71,550,000 | 71,700,000 | 955 | 178 | -0.974346842 | |
| 7 | 71,625,000 | 71,775,000 | 956 | 173 | -0.49075902 | |
| 7 | 71,700,000 | 71,850,000 | 957 | 269 | -0.535738471 | |
| 7 | 71,775,000 | 71,925,000 | 958 | 289 | -0.832262965 | |
| 7 | 71,850,000 | 72,000,000 | 959 | 232 | -0.402183911 | |
| 7 | 71,925,000 | 72,075,000 | 960 | 578 | -0.010010795 | |
| 7 | 72,000,000 | 72,150,000 | 961 | 815 | 0.863631405 | |
| 7 | 72,075,000 | 72,225,000 | 962 | 625 | 0.90480154 | |
| 7 | 72,150,000 | 72,300,000 | 963 | 574 | -0.843245288 | |
| 7 | 72,225,000 | 72,375,000 | 964 | 532 | -1.447794543 | |
| 7 | 72,300,000 | 72,450,000 | 965 | 531 | 0.087650768 | EBF1 |
| 7 | 72,375,000 | 72,525,000 | 966 | 514 | 0.162198837 | EBF1 |
| 7 | 72,450,000 | 72,600,000 | 967 | 418 | 0.09557871 | EBF1 |
| 7 | 72,525,000 | 72,675,000 | 968 | 301 | 0.637111429 | EBF1 |
| 7 | 72,600,000 | 72,750,000 | 969 | 286 | -1.484425125 | EBF1 |
| 7 | 72,675,000 | 72,825,000 | 970 | 290 | -2.656362036 | EBF1 |
| 7 | 72,750,000 | 72,900,000 | 971 | 199 | -2.078578559 | EBF1,RNF145 |
| 7 | 72,825,000 | 72,975,000 | 972 | 176 | -3.311041778 | RNF145,UBLCP1 |
| 7 | 72,900,000 | 73,050,000 | 973 | 234 | -3.533406349 | IL12B,RNF145,UBLCP1 |
| 7 | 72,975,000 | 73,125,000 | 974 | 294 | -1.56335722 | IL12B,UBLCP1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------|
| 7 | 73,050,000 | 73,200,000 | 975 | 555 | 0.978998411 | |
| 7 | 73,125,000 | 73,275,000 | 976 | 676 | 0.337452652 | |
| 7 | 73,200,000 | 73,350,000 | 977 | 455 | -1.683509367 | |
| 7 | 73,275,000 | 73,425,000 | 978 | 523 | -1.026281823 | |
| 7 | 73,350,000 | 73,500,000 | 979 | 525 | -1.83105951 | |
| 7 | 73,425,000 | 73,575,000 | 980 | 540 | -2.186142478 | |
| 7 | 73,500,000 | 73,650,000 | 981 | 636 | -0.776604103 | ADRA1B |
| 7 | 73,575,000 | 73,725,000 | 982 | 507 | -1.065207748 | ADRA1B,TTC1 |
| 7 | 73,650,000 | 73,800,000 | 983 | 419 | -0.458451332 | ADRA1B,PWWP2A,TTC1 |
| 7 | 73,725,000 | 73,875,000 | 984 | 564 | 0.187011855 | PWWP2A,TTC1 |
| 7 | 73,800,000 | 73,950,000 | 985 | 745 | 0.498483489 | CCNJL,FABP6 |
| 7 | 73,875,000 | 74,025,000 | 986 | 872 | 0.855335615 | CCNJL,FABP6 |
| 7 | 73,950,000 | 74,100,000 | 987 | 746 | 1.051918214 | C1QTNF2,CCNJL,SLU7,ZBED8 |
| 7 | 74,025,000 | 74,175,000 | 988 | 506 | 0.752560235 | C1QTNF2,PTTG1,SLU7,ZBED8 |
| 7 | 74,100,000 | 74,250,000 | 989 | 372 | 0.53492961 | PTTG1,SLU7 |
| 7 | 74,175,000 | 74,325,000 | 990 | 320 | 0.476688376 | |
| 7 | 74,250,000 | 74,400,000 | 991 | 487 | 0.099798731 | ATP10B |
| 7 | 74,325,000 | 74,475,000 | 992 | 586 | -0.269541902 | ATP10B |
| 7 | 74,400,000 | 74,550,000 | 993 | 965 | -1.830725683 | ATP10B |
| 7 | 74,475,000 | 74,625,000 | 994 | 1370 | -1.261777111 | |
| 7 | 74,550,000 | 74,700,000 | 995 | 1138 | 0.602435694 | |
| 7 | 74,625,000 | 74,775,000 | 996 | 951 | 1.237915306 | |
| 7 | 74,700,000 | 74,850,000 | 997 | 1041 | 1.05563516 | |
| 7 | 74,775,000 | 74,925,000 | 998 | 907 | 0.654474984 | |
| 7 | 74,850,000 | 75,000,000 | 999 | 767 | 0.791101025 | |
| 7 | 74,925,000 | 75,075,000 | 1000 | 685 | 0.935834305 | ENSBTAG00000046349 |
| 7 | 75,000,000 | 75,150,000 | 1001 | 635 | 0.221031516 | GABRB2,ENSBTAG00000046349 |
| 7 | 75,075,000 | 75,225,000 | 1002 | 602 | -0.208140016 | GABRB2 |
| 7 | 75,150,000 | 75,300,000 | 1003 | 571 | 0.082873675 | GABRB2 |
| 7 | 75,225,000 | 75,375,000 | 1004 | 564 | 0.907416261 | GABRB2 |
| 7 | 75,300,000 | 75,450,000 | 1005 | 574 | 1.048656503 | GABRB2 |
| 7 | 75,375,000 | 75,525,000 | 1006 | 560 | 1.133182152 | GABRA6,GABRB2 |
| 7 | 75,450,000 | 75,600,000 | 1007 | 342 | 0.563770632 | GABRA6 |
| 7 | 75,525,000 | 75,675,000 | 1008 | 188 | -0.627579276 | GABRA6 |
| 7 | 75,600,000 | 75,750,000 | 1009 | 334 | 0.445346926 | GABRA1 |
| 7 | 75,675,000 | 75,825,000 | 1010 | 441 | 0.827672264 | GABRA1 |
| 7 | 75,750,000 | 75,900,000 | 1011 | 588 | 0.944875755 | GABRA1,GABRG2 |
| 7 | 75,825,000 | 75,975,000 | 1012 | 823 | 0.29149943 | GABRG2 |
| 7 | 75,900,000 | 76,050,000 | 1013 | 614 | 0.196099484 | GABRG2 |
| 7 | 75,975,000 | 76,125,000 | 1014 | 464 | 1.308947715 | GABRG2 |
| 7 | 76,050,000 | 76,200,000 | 1015 | 656 | 0.815498003 | |
| 7 | 76,125,000 | 76,275,000 | 1016 | 601 | 0.23858547 | |
| 7 | 76,200,000 | 76,350,000 | 1017 | 632 | 0.64067569 | |
| 7 | 76,275,000 | 76,425,000 | 1018 | 836 | 0.087464579 | |
| 7 | 76,350,000 | 76,500,000 | 1019 | 712 | -1.808211602 | |
| 7 | 76,425,000 | 76,575,000 | 1020 | 426 | -3.242697274 | |
| 7 | 76,500,000 | 76,650,000 | 1021 | 549 | -1.127082986 | |
| 7 | 76,575,000 | 76,725,000 | 1022 | 1112 | -0.767464546 | |
| 7 | 76,650,000 | 76,800,000 | 1023 | 1214 | -0.664241238 | |
| 7 | 76,725,000 | 76,875,000 | 1024 | 824 | -0.843258732 | |
| 7 | 76,800,000 | 76,950,000 | 1025 | 787 | 0.422112991 | |
| 7 | 76,875,000 | 77,025,000 | 1026 | 908 | -0.66509092 | |
| 7 | 76,950,000 | 77,100,000 | 1027 | 640 | -3.748880485 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------------|
| 7 | 77,025,000 | 77,175,000 | 1028 | 430 | -2.883076327 | |
| 7 | 77,100,000 | 77,250,000 | 1029 | 403 | -1.749874307 | CCNG1 |
| 7 | 77,175,000 | 77,325,000 | 1030 | 373 | -0.659893835 | CCNG1,HMMR,MAT2B,NUDCD2 |
| 7 | 77,250,000 | 77,400,000 | 1031 | 344 | -1.742567527 | CCNG1,HMMR,MAT2B,NUDCD2 |
| 7 | 77,325,000 | 77,475,000 | 1032 | 270 | -4.901408098 | MAT2B |
| 7 | 77,400,000 | 77,550,000 | 1033 | 403 | -4.535505433 | |
| 7 | 77,475,000 | 77,625,000 | 1034 | 426 | -3.037934129 | |
| 7 | 77,550,000 | 77,700,000 | 1035 | 340 | -0.093393413 | |
| 7 | 77,625,000 | 77,775,000 | 1036 | 404 | -0.596697079 | |
| 7 | 77,700,000 | 77,850,000 | 1037 | 686 | -3.006242773 | |
| 7 | 77,775,000 | 77,925,000 | 1038 | 752 | -2.544477057 | |
| 7 | 77,850,000 | 78,000,000 | 1039 | 839 | -0.127962616 | |
| 7 | 77,925,000 | 78,075,000 | 1040 | 731 | 0.003021091 | |
| 7 | 78,000,000 | 78,150,000 | 1041 | 376 | -0.282053086 | |
| 7 | 78,075,000 | 78,225,000 | 1042 | 411 | -0.258532013 | |
| 7 | 78,150,000 | 78,300,000 | 1043 | 467 | -1.36100825 | |
| 7 | 78,225,000 | 78,375,000 | 1044 | 709 | -3.18639174 | |
| 7 | 78,300,000 | 78,450,000 | 1045 | 666 | -3.150728425 | |
| 7 | 78,375,000 | 78,525,000 | 1046 | 662 | -0.831192746 | |
| 7 | 78,450,000 | 78,600,000 | 1047 | 984 | -2.116023552 | |
| 7 | 78,525,000 | 78,675,000 | 1048 | 1074 | -2.043276308 | |
| 7 | 78,600,000 | 78,750,000 | 1049 | 809 | -0.532360894 | |
| 7 | 78,675,000 | 78,825,000 | 1050 | 465 | -0.176439141 | |
| 7 | 78,750,000 | 78,900,000 | 1051 | 436 | -0.267546904 | |
| 7 | 78,825,000 | 78,975,000 | 1052 | 495 | -0.449498997 | |
| 7 | 78,900,000 | 79,050,000 | 1053 | 880 | -0.542510122 | |
| 7 | 78,975,000 | 79,125,000 | 1054 | 855 | -0.407928931 | |
| 7 | 79,050,000 | 79,200,000 | 1055 | 250 | 0.162995897 | |
| 7 | 79,125,000 | 79,275,000 | 1056 | 38 | -4.358552112 | |
| 7 | 79,200,000 | 79,350,000 | 1057 | 263 | -0.77664276 | |
| 7 | 79,275,000 | 79,425,000 | 1058 | 438 | -0.746608666 | |
| 7 | 79,350,000 | 79,500,000 | 1059 | 557 | -0.523062524 | |
| 7 | 79,425,000 | 79,575,000 | 1060 | 869 | -0.217158812 | |
| 7 | 79,500,000 | 79,650,000 | 1061 | 917 | 0.225266027 | |
| 7 | 79,575,000 | 79,725,000 | 1062 | 975 | 0.681689937 | |
| 7 | 79,650,000 | 79,800,000 | 1063 | 977 | 0.455701086 | |
| 7 | 79,725,000 | 79,875,000 | 1064 | 651 | 0.387026023 | |
| 7 | 79,800,000 | 79,950,000 | 1065 | 683 | 0.234812884 | |
| 7 | 79,875,000 | 80,025,000 | 1066 | 738 | -0.328663361 | |
| 7 | 79,950,000 | 80,100,000 | 1067 | 716 | -0.411501477 | |
| 7 | 80,025,000 | 80,175,000 | 1068 | 846 | 0.790958189 | |
| 7 | 80,100,000 | 80,250,000 | 1069 | 995 | 0.672922583 | ENSBTAG00000046080 |
| 7 | 80,175,000 | 80,325,000 | 1070 | 844 | -0.161515831 | ENSBTAG00000046080 |
| 7 | 80,250,000 | 80,400,000 | 1071 | 674 | -2.112787238 | |
| 7 | 80,325,000 | 80,475,000 | 1072 | 654 | -1.329112006 | |
| 7 | 80,400,000 | 80,550,000 | 1073 | 833 | -1.016234047 | |
| 7 | 80,475,000 | 80,625,000 | 1074 | 881 | -0.610770615 | |
| 7 | 80,550,000 | 80,700,000 | 1075 | 572 | 1.175676276 | |
| 7 | 80,625,000 | 80,775,000 | 1076 | 464 | 1.329477877 | |
| 7 | 80,700,000 | 80,850,000 | 1077 | 447 | 1.266665037 | |
| 7 | 80,775,000 | 80,925,000 | 1078 | 700 | 1.247933214 | |
| 7 | 80,850,000 | 81,000,000 | 1079 | 608 | 1.243215794 | |
| 7 | 80,925,000 | 81,075,000 | 1080 | 382 | 1.197389554 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-------------------------------|
| 7 | 81,000,000 | 81,150,000 | 1081 | 338 | 1.149317778 | |
| 7 | 81,075,000 | 81,225,000 | 1082 | 357 | 1.214964923 | |
| 7 | 81,150,000 | 81,300,000 | 1083 | 504 | 0.475213642 | |
| 7 | 81,225,000 | 81,375,000 | 1084 | 636 | -0.066281955 | |
| 7 | 81,300,000 | 81,450,000 | 1085 | 646 | 0.611122016 | CMC2 |
| 7 | 81,375,000 | 81,525,000 | 1086 | 483 | 0.859248549 | CMC2 |
| 7 | 81,450,000 | 81,600,000 | 1087 | 497 | 0.455240652 | |
| 7 | 81,525,000 | 81,675,000 | 1088 | 586 | 0.284679645 | |
| 7 | 81,600,000 | 81,750,000 | 1089 | 758 | -1.070388985 | |
| 7 | 81,675,000 | 81,825,000 | 1090 | 722 | -1.198571799 | |
| 7 | 81,750,000 | 81,900,000 | 1091 | 504 | -0.594027408 | |
| 7 | 81,825,000 | 81,975,000 | 1092 | 494 | -0.182070604 | |
| 7 | 81,900,000 | 82,050,000 | 1093 | 659 | -0.625381868 | |
| 7 | 81,975,000 | 82,125,000 | 1094 | 830 | -0.740214503 | |
| 7 | 82,050,000 | 82,200,000 | 1095 | 876 | -0.504917904 | |
| 7 | 82,125,000 | 82,275,000 | 1096 | 635 | -0.282906535 | |
| 7 | 82,200,000 | 82,350,000 | 1097 | 324 | -0.755863149 | |
| 7 | 82,275,000 | 82,425,000 | 1098 | 515 | -0.712364763 | TENM2 |
| 7 | 82,350,000 | 82,500,000 | 1099 | 574 | -0.175850981 | TENM2 |
| 7 | 82,425,000 | 82,575,000 | 1100 | 478 | 0.097629018 | TENM2 |
| 7 | 82,500,000 | 82,650,000 | 1101 | 587 | 0.466798018 | TENM2 |
| 7 | 82,575,000 | 82,725,000 | 1102 | 749 | 0.727003763 | TENM2,WWC1 |
| 7 | 82,650,000 | 82,800,000 | 1103 | 953 | 0.944264215 | RARS,WWC1 |
| 7 | 82,725,000 | 82,875,000 | 1104 | 1195 | 0.522475599 | FBLL1,RARS,WWC1 |
| 7 | 82,800,000 | 82,950,000 | 1105 | 1077 | 0.379565086 | FAM151B,FBLL1,RARS,ZFYVE16 |
| 7 | 82,875,000 | 83,025,000 | 1106 | 880 | 0.092833679 | ANKRD34B,DHFR,FAM151B,ZFYVE16 |
| 7 | 82,950,000 | 83,100,000 | 1107 | 819 | -0.731290762 | ANKRD34B,DHFR,FAM151B,MSH3 |
| 7 | 83,025,000 | 83,175,000 | 1108 | 654 | 0.131834159 | DHFR,MSH3 |
| 7 | 83,100,000 | 83,250,000 | 1109 | 773 | -0.442771263 | MSH3 |
| 7 | 83,175,000 | 83,325,000 | 1110 | 661 | -0.637181873 | MSH3 |
| 7 | 83,250,000 | 83,400,000 | 1111 | 728 | 0.193275888 | RASGRF2 |
| 7 | 83,325,000 | 83,475,000 | 1112 | 1074 | 0.600666673 | RASGRF2 |
| 7 | 83,400,000 | 83,550,000 | 1113 | 852 | 0.700691966 | RASGRF2 |
| 7 | 83,475,000 | 83,625,000 | 1114 | 643 | -0.077408418 | ACOT12,CKMT2,RASGRF2,ZCCHC9 |
| 7 | 83,550,000 | 83,700,000 | 1115 | 1041 | -1.673207993 | ACOT12,CKMT2,ZCCHC9 |
| 7 | 83,625,000 | 83,775,000 | 1116 | 895 | -1.846256813 | ACOT12,SSBP2 |
| 7 | 83,700,000 | 83,850,000 | 1117 | 564 | -0.634475802 | SSBP2 |
| 7 | 83,775,000 | 83,925,000 | 1118 | 772 | -0.220505348 | SSBP2 |
| 7 | 83,850,000 | 84,000,000 | 1119 | 676 | 0.294645758 | SSBP2 |
| 7 | 83,925,000 | 84,075,000 | 1120 | 504 | 0.303433457 | SSBP2 |
| 7 | 84,000,000 | 84,150,000 | 1121 | 430 | -0.090362713 | SSBP2 |
| 7 | 84,075,000 | 84,225,000 | 1122 | 601 | -0.583142043 | |
| 7 | 84,150,000 | 84,300,000 | 1123 | 721 | -0.856019165 | MGC138057 |
| 7 | 84,225,000 | 84,375,000 | 1124 | 516 | -0.774099163 | MGC138057 |
| 7 | 84,300,000 | 84,450,000 | 1125 | 412 | -0.354231773 | MGC138057 |
| 7 | 84,375,000 | 84,525,000 | 1126 | 554 | 0.204680447 | MGC138057,RPS23 |
| 7 | 84,450,000 | 84,600,000 | 1127 | 588 | 0.058261469 | MGC138057,RPS23 |
| 7 | 84,525,000 | 84,675,000 | 1128 | 460 | -0.842006426 | RPS23 |
| 7 | 84,600,000 | 84,750,000 | 1129 | 531 | -1.106449187 | |
| 7 | 84,675,000 | 84,825,000 | 1130 | 650 | -0.897787822 | |
| 7 | 84,750,000 | 84,900,000 | 1131 | 713 | -0.198516023 | |
| 7 | 84,825,000 | 84,975,000 | 1132 | 820 | 0.583517794 | |
| 7 | 84,900,000 | 85,050,000 | 1133 | 644 | 0.531717454 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|----------------|
| 7 | 84,975,000 | 85,125,000 | 1134 | 457 | -0.463648368 | |
| 7 | 85,050,000 | 85,200,000 | 1135 | 409 | -0.415006912 | |
| 7 | 85,125,000 | 85,275,000 | 1136 | 376 | 0.754686794 | TMEM167A,XRCC4 |
| 7 | 85,200,000 | 85,350,000 | 1137 | 367 | 0.526536096 | TMEM167A,XRCC4 |
| 7 | 85,275,000 | 85,425,000 | 1138 | 313 | 0.151757418 | XRCC4 |
| 7 | 85,350,000 | 85,500,000 | 1139 | 399 | 0.101091271 | XRCC4 |
| 7 | 85,425,000 | 85,575,000 | 1140 | 511 | 0.056680076 | XRCC4 |
| 7 | 85,500,000 | 85,650,000 | 1141 | 782 | 0.034575374 | XRCC4 |
| 7 | 85,575,000 | 85,725,000 | 1142 | 885 | -0.079999219 | VCAN |
| 7 | 85,650,000 | 85,800,000 | 1143 | 568 | -0.298956028 | VCAN |
| 7 | 85,725,000 | 85,875,000 | 1144 | 494 | 0.093311951 | HAPLN1,VCAN |
| 7 | 85,800,000 | 85,950,000 | 1145 | 696 | -0.069844963 | HAPLN1 |
| 7 | 85,875,000 | 86,025,000 | 1146 | 787 | 0.240020203 | HAPLN1 |
| 7 | 85,950,000 | 86,100,000 | 1147 | 670 | 0.690473164 | |
| 7 | 86,025,000 | 86,175,000 | 1148 | 724 | 0.571376872 | EDIL3 |
| 7 | 86,100,000 | 86,250,000 | 1149 | 850 | 0.725051033 | EDIL3 |
| 7 | 86,175,000 | 86,325,000 | 1150 | 651 | 0.657715959 | EDIL3 |
| 7 | 86,250,000 | 86,400,000 | 1151 | 576 | 0.256450318 | EDIL3 |
| 7 | 86,325,000 | 86,475,000 | 1152 | 791 | -0.206074894 | EDIL3 |
| 7 | 86,400,000 | 86,550,000 | 1153 | 672 | 0.001559053 | EDIL3 |
| 7 | 86,475,000 | 86,625,000 | 1154 | 809 | 0.35017162 | EDIL3 |
| 7 | 86,550,000 | 86,700,000 | 1155 | 1058 | -0.776923446 | EDIL3 |
| 7 | 86,625,000 | 86,775,000 | 1156 | 1024 | -2.735796496 | EDIL3 |
| 7 | 86,700,000 | 86,850,000 | 1157 | 945 | -1.981465091 | |
| 7 | 86,775,000 | 86,925,000 | 1158 | 832 | -2.672572225 | |
| 7 | 86,850,000 | 87,000,000 | 1159 | 935 | -2.525028316 | |
| 7 | 86,925,000 | 87,075,000 | 1160 | 667 | -1.233367339 | |
| 7 | 87,000,000 | 87,150,000 | 1161 | 498 | -1.954730411 | |
| 7 | 87,075,000 | 87,225,000 | 1162 | 798 | 0.737616665 | |
| 7 | 87,150,000 | 87,300,000 | 1163 | 598 | 1.093459594 | |
| 7 | 87,225,000 | 87,375,000 | 1164 | 302 | -0.263242461 | |
| 7 | 87,300,000 | 87,450,000 | 1165 | 438 | -0.347949965 | |
| 7 | 87,375,000 | 87,525,000 | 1166 | 570 | 0.021301375 | |
| 7 | 87,450,000 | 87,600,000 | 1167 | 579 | 0.047153899 | |
| 7 | 87,525,000 | 87,675,000 | 1168 | 928 | -2.248481219 | |
| 7 | 87,600,000 | 87,750,000 | 1169 | 1201 | -2.82854399 | |
| 7 | 87,675,000 | 87,825,000 | 1170 | 631 | -2.160287115 | |
| 7 | 87,750,000 | 87,900,000 | 1171 | 325 | -1.684146876 | |
| 7 | 87,825,000 | 87,975,000 | 1172 | 718 | -1.158332324 | |
| 7 | 87,900,000 | 88,050,000 | 1173 | 956 | -0.994796686 | |
| 7 | 87,975,000 | 88,125,000 | 1174 | 663 | -1.012088769 | |
| 7 | 88,050,000 | 88,200,000 | 1175 | 508 | -2.232306634 | |
| 7 | 88,125,000 | 88,275,000 | 1176 | 810 | -2.075266398 | |
| 7 | 88,200,000 | 88,350,000 | 1177 | 1257 | -1.128854342 | |
| 7 | 88,275,000 | 88,425,000 | 1178 | 1258 | -0.938617989 | |
| 7 | 88,350,000 | 88,500,000 | 1179 | 1081 | -1.105788873 | |
| 7 | 88,425,000 | 88,575,000 | 1180 | 903 | -1.021568013 | |
| 7 | 88,500,000 | 88,650,000 | 1181 | 711 | 0.827608226 | COX7C |
| 7 | 88,575,000 | 88,725,000 | 1182 | 928 | 1.263668421 | COX7C |
| 7 | 88,650,000 | 88,800,000 | 1183 | 1000 | 0.878798557 | COX7C |
| 7 | 88,725,000 | 88,875,000 | 1184 | 763 | 0.626522367 | |
| 7 | 88,800,000 | 88,950,000 | 1185 | 710 | -0.090104281 | |
| 7 | 88,875,000 | 89,025,000 | 1186 | 837 | -1.032354092 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------|
| 7 | 88,950,000 | 89,100,000 | 1187 | 606 | -1.258160384 | |
| 7 | 89,025,000 | 89,175,000 | 1188 | 656 | 0.291950743 | |
| 7 | 89,100,000 | 89,250,000 | 1189 | 804 | 0.192729924 | |
| 7 | 89,175,000 | 89,325,000 | 1190 | 565 | -0.429762124 | RASA1 |
| 7 | 89,250,000 | 89,400,000 | 1191 | 433 | -0.649061374 | RASA1,ENSBTAG00000009566 |
| 7 | 89,325,000 | 89,475,000 | 1192 | 689 | -1.089386046 | RASA1,ENSBTAG00000009566 |
| 7 | 89,400,000 | 89,550,000 | 1193 | 899 | -1.043714797 | ENSBTAG00000009566 |
| 7 | 89,475,000 | 89,625,000 | 1194 | 589 | -1.19532793 | |
| 7 | 89,550,000 | 89,700,000 | 1195 | 383 | -3.794936464 | |
| 7 | 89,625,000 | 89,775,000 | 1196 | 487 | -3.118722748 | |
| 7 | 89,700,000 | 89,850,000 | 1197 | 493 | -1.613696897 | |
| 7 | 89,775,000 | 89,925,000 | 1198 | 384 | 0.02033129 | |
| 7 | 89,850,000 | 90,000,000 | 1199 | 540 | 0.375463416 | |
| 7 | 89,925,000 | 90,075,000 | 1200 | 864 | -0.113520475 | |
| 7 | 90,000,000 | 90,150,000 | 1201 | 823 | -0.350046707 | TMEM161B |
| 7 | 90,075,000 | 90,225,000 | 1202 | 855 | -1.359857437 | TMEM161B |
| 7 | 90,150,000 | 90,300,000 | 1203 | 1092 | -1.544982999 | TMEM161B |
| 7 | 90,225,000 | 90,375,000 | 1204 | 855 | -1.037293457 | |
| 7 | 90,300,000 | 90,450,000 | 1205 | 400 | 0.045480676 | |
| 7 | 90,375,000 | 90,525,000 | 1206 | 311 | 0.64139019 | |
| 7 | 90,450,000 | 90,600,000 | 1207 | 376 | 0.459381375 | |
| 7 | 90,525,000 | 90,675,000 | 1208 | 395 | 0.268990144 | MEF2C |
| 7 | 90,600,000 | 90,750,000 | 1209 | 507 | 0.594387795 | MEF2C |
| 7 | 90,675,000 | 90,825,000 | 1210 | 458 | 0.236544708 | MEF2C |
| 7 | 90,750,000 | 90,900,000 | 1211 | 498 | -0.060698631 | MEF2C |
| 7 | 90,825,000 | 90,975,000 | 1212 | 633 | -0.038477969 | |
| 7 | 90,900,000 | 91,050,000 | 1213 | 569 | -0.093400245 | |
| 7 | 90,975,000 | 91,125,000 | 1214 | 412 | 0.691842151 | |
| 7 | 91,050,000 | 91,200,000 | 1215 | 386 | 0.4260532 | |
| 7 | 91,125,000 | 91,275,000 | 1216 | 642 | 0.060560465 | |
| 7 | 91,200,000 | 91,350,000 | 1217 | 739 | -0.151307144 | |
| 7 | 91,275,000 | 91,425,000 | 1218 | 612 | -0.015136942 | |
| 7 | 91,350,000 | 91,500,000 | 1219 | 573 | 0.675036006 | |
| 7 | 91,425,000 | 91,575,000 | 1220 | 598 | 1.000087821 | |
| 7 | 91,500,000 | 91,650,000 | 1221 | 750 | 1.165273827 | |
| 7 | 91,575,000 | 91,725,000 | 1222 | 814 | 0.634215695 | |
| 7 | 91,650,000 | 91,800,000 | 1223 | 735 | -0.866448384 | |
| 7 | 91,725,000 | 91,875,000 | 1224 | 911 | -0.534025815 | |
| 7 | 91,800,000 | 91,950,000 | 1225 | 883 | 0.146041846 | |
| 7 | 91,875,000 | 92,025,000 | 1226 | 700 | 0.006647048 | |
| 7 | 91,950,000 | 92,100,000 | 1227 | 853 | 0.868471004 | |
| 7 | 92,025,000 | 92,175,000 | 1228 | 796 | 1.300136719 | |
| 7 | 92,100,000 | 92,250,000 | 1229 | 584 | 1.312366681 | |
| 7 | 92,175,000 | 92,325,000 | 1230 | 478 | 0.759200185 | CETN3,ENSBTAG00000045800 |
| 7 | 92,250,000 | 92,400,000 | 1231 | 419 | 0.35328139 | CETN3,MBLAC2,ENSBTAG00000045800 |
| 7 | 92,325,000 | 92,475,000 | 1232 | 422 | 0.725971425 | LYSMD3,MBLAC2,POLR3G |
| 7 | 92,400,000 | 92,550,000 | 1233 | 467 | 0.542716118 | GPR98,LYSMD3,POLR3G |
| 7 | 92,475,000 | 92,625,000 | 1234 | 651 | 0.628210275 | GPR98 |
| 7 | 92,550,000 | 92,700,000 | 1235 | 1096 | 1.168092745 | GPR98 |
| 7 | 92,625,000 | 92,775,000 | 1236 | 1006 | 1.050254547 | GPR98 |
| 7 | 92,700,000 | 92,850,000 | 1237 | 929 | 0.47717982 | |
| 7 | 92,775,000 | 92,925,000 | 1238 | 1123 | 0.864532025 | ENSBTAG00000046227 |
| 7 | 92,850,000 | 93,000,000 | 1239 | 603 | 0.845588665 | ENSBTAG00000046227 |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------|
| 7 | 92,925,000 | 93,075,000 | 1240 | 288 | 0.47684067 | |
| 7 | 93,000,000 | 93,150,000 | 1241 | 456 | 0.988447546 | |
| 7 | 93,075,000 | 93,225,000 | 1242 | 535 | -0.604768562 | |
| 7 | 93,150,000 | 93,300,000 | 1243 | 404 | -1.924147622 | ARRDC3 |
| 7 | 93,225,000 | 93,375,000 | 1244 | 411 | -0.105554378 | ARRDC3 |
| 7 | 93,300,000 | 93,450,000 | 1245 | 592 | 0.552439111 | |
| 7 | 93,375,000 | 93,525,000 | 1246 | 648 | -1.222449621 | |
| 7 | 93,450,000 | 93,600,000 | 1247 | 1069 | -1.74868456 | |
| 7 | 93,525,000 | 93,675,000 | 1248 | 1259 | -0.336793748 | |
| 7 | 93,600,000 | 93,750,000 | 1249 | 740 | 0.917257013 | |
| 7 | 93,675,000 | 93,825,000 | 1250 | 410 | 0.906760856 | |
| 7 | 93,750,000 | 93,900,000 | 1251 | 349 | 0.533907122 | |
| 7 | 93,825,000 | 93,975,000 | 1252 | 445 | -0.240777166 | |
| 7 | 93,900,000 | 94,050,000 | 1253 | 1000 | -1.435843659 | |
| 7 | 93,975,000 | 94,125,000 | 1254 | 1351 | -2.070222858 | |
| 7 | 94,050,000 | 94,200,000 | 1255 | 1300 | -2.886262559 | |
| 7 | 94,125,000 | 94,275,000 | 1256 | 1251 | -2.791506346 | |
| 7 | 94,200,000 | 94,350,000 | 1257 | 1142 | -2.853282031 | |
| 7 | 94,275,000 | 94,425,000 | 1258 | 1106 | -1.753253456 | |
| 7 | 94,350,000 | 94,500,000 | 1259 | 915 | -0.184707403 | |
| 7 | 94,425,000 | 94,575,000 | 1260 | 821 | 0.002651881 | |
| 7 | 94,500,000 | 94,650,000 | 1261 | 737 | -0.520561802 | |
| 7 | 94,575,000 | 94,725,000 | 1262 | 730 | 0.30700427 | |
| 7 | 94,650,000 | 94,800,000 | 1263 | 797 | 0.4685257 | |
| 7 | 94,725,000 | 94,875,000 | 1264 | 1007 | -0.007556095 | |
| 7 | 94,800,000 | 94,950,000 | 1265 | 873 | 0.262488557 | |
| 7 | 94,875,000 | 95,025,000 | 1266 | 567 | 0.570238256 | |
| 7 | 94,950,000 | 95,100,000 | 1267 | 608 | 0.242933218 | |
| 7 | 95,025,000 | 95,175,000 | 1268 | 571 | -0.534172479 | |
| 7 | 95,100,000 | 95,250,000 | 1269 | 565 | -0.225912815 | |
| 7 | 95,175,000 | 95,325,000 | 1270 | 530 | -0.182754133 | |
| 7 | 95,250,000 | 95,400,000 | 1271 | 580 | 0.012721255 | |
| 7 | 95,325,000 | 95,475,000 | 1272 | 390 | 0.703908074 | NR2F1 |
| 7 | 95,400,000 | 95,550,000 | 1273 | 243 | 0.52388812 | NR2F1 |
| 7 | 95,475,000 | 95,625,000 | 1274 | 345 | 0.048450402 | |
| 7 | 95,550,000 | 95,700,000 | 1275 | 402 | -0.717005948 | |
| 7 | 95,625,000 | 95,775,000 | 1276 | 467 | -0.233775127 | |
| 7 | 95,700,000 | 95,850,000 | 1277 | 780 | 0.339884558 | |
| 7 | 95,775,000 | 95,925,000 | 1278 | 937 | 0.239001738 | |
| 7 | 95,850,000 | 96,000,000 | 1279 | 891 | 0.714970647 | |
| 7 | 95,925,000 | 96,075,000 | 1280 | 900 | 0.579024338 | |
| 7 | 96,000,000 | 96,150,000 | 1281 | 718 | -0.372563075 | KIAA0825 |
| 7 | 96,075,000 | 96,225,000 | 1282 | 753 | 0.333534362 | KIAA0825 |
| 7 | 96,150,000 | 96,300,000 | 1283 | 724 | 0.879579399 | KIAA0825 |
| 7 | 96,225,000 | 96,375,000 | 1284 | 677 | 0.773028445 | ANKRD32,KIAA0825 |
| 7 | 96,300,000 | 96,450,000 | 1285 | 634 | 0.888858595 | ANKRD32,KIAA0825 |
| 7 | 96,375,000 | 96,525,000 | 1286 | 624 | 0.995310445 | ANKRD32 |
| 7 | 96,450,000 | 96,600,000 | 1287 | 583 | 0.975998557 | |
| 7 | 96,525,000 | 96,675,000 | 1288 | 405 | 0.769927836 | |
| 7 | 96,600,000 | 96,750,000 | 1289 | 567 | -0.758631288 | MCTP1 |
| 7 | 96,675,000 | 96,825,000 | 1290 | 1042 | -1.315816009 | MCTP1 |
| 7 | 96,750,000 | 96,900,000 | 1291 | 1466 | -0.419562933 | |
| 7 | 96,825,000 | 96,975,000 | 1292 | 1321 | 0.138822503 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 7 | 96,900,000 | 97,050,000 | 1293 | 1541 | 0.698383087 | |
| 7 | 96,975,000 | 97,125,000 | 1294 | 1419 | 0.711238739 | FAM81B |
| 7 | 97,050,000 | 97,200,000 | 1295 | 760 | -0.140007714 | FAM81B,TTC37 |
| 7 | 97,125,000 | 97,275,000 | 1296 | 598 | -0.079910675 | FAM81B,TTC37 |
| 7 | 97,200,000 | 97,350,000 | 1297 | 456 | -0.805554126 | ARSK,RHOBTB3,TTC37 |
| 7 | 97,275,000 | 97,425,000 | 1298 | 504 | -0.43435976 | ARSK,RHOBTB3 |
| 7 | 97,350,000 | 97,500,000 | 1299 | 626 | -1.570536395 | RFESD,RHOBTB3,SPATA9 |
| 7 | 97,425,000 | 97,575,000 | 1300 | 629 | -1.678886713 | GLRX,RFESD,RHOBTB3,SPATA9 |
| 7 | 97,500,000 | 97,650,000 | 1301 | 534 | 0.296158814 | ELL2,GLRX,SPATA9 |
| 7 | 97,575,000 | 97,725,000 | 1302 | 393 | 0.393269457 | ELL2 |
| 7 | 97,650,000 | 97,800,000 | 1303 | 450 | 0.17034268 | ELL2 |
| 7 | 97,725,000 | 97,875,000 | 1304 | 532 | -0.106157284 | |
| 7 | 97,800,000 | 97,950,000 | 1305 | 450 | 0.207562891 | |
| 7 | 97,875,000 | 98,025,000 | 1306 | 432 | 1.036553395 | |
| 7 | 97,950,000 | 98,100,000 | 1307 | 692 | 1.126523442 | |
| 7 | 98,025,000 | 98,175,000 | 1308 | 1288 | 0.562404243 | PCSK1 |
| 7 | 98,100,000 | 98,250,000 | 1309 | 1340 | 0.372347621 | PCSK1 |
| 7 | 98,175,000 | 98,325,000 | 1310 | 1175 | -0.006720448 | PCSK1 |
| 7 | 98,250,000 | 98,400,000 | 1311 | 1200 | -0.246506552 | |
| 7 | 98,325,000 | 98,475,000 | 1312 | 1387 | -1.025218506 | CAST |
| 7 | 98,400,000 | 98,550,000 | 1313 | 1816 | -1.123816177 | CAST |
| 7 | 98,475,000 | 98,625,000 | 1314 | 2087 | -1.419019061 | CAST,ERAP1 |
| 7 | 98,550,000 | 98,700,000 | 1315 | 2284 | -1.278735266 | CAST,ERAP1 |
| 7 | 98,625,000 | 98,775,000 | 1316 | 2223 | -0.602996426 | ERAP2 |
| 7 | 98,700,000 | 98,850,000 | 1317 | 1881 | -0.52767924 | ERAP2,LNPEP |
| 7 | 98,775,000 | 98,925,000 | 1318 | 1573 | 0.086916992 | LNPEP |
| 7 | 98,850,000 | 99,000,000 | 1319 | 1623 | 0.584118027 | LIX1,LNPEP |
| 7 | 98,925,000 | 99,075,000 | 1320 | 1668 | 0.298451341 | LIX1,RIOK2 |
| 7 | 99,000,000 | 99,150,000 | 1321 | 1660 | 0.117243143 | LIX1,RIOK2 |
| 7 | 99,075,000 | 99,225,000 | 1322 | 1788 | 0.151982819 | |
| 7 | 99,150,000 | 99,300,000 | 1323 | 1658 | -0.175854979 | |
| 7 | 99,225,000 | 99,375,000 | 1324 | 1563 | 0.33597367 | |
| 7 | 99,300,000 | 99,450,000 | 1325 | 1650 | 0.919105705 | |
| 7 | 99,375,000 | 99,525,000 | 1326 | 1722 | 0.908276742 | |
| 7 | 99,450,000 | 99,600,000 | 1327 | 1773 | -0.298908596 | |
| 7 | 99,525,000 | 99,675,000 | 1328 | 1875 | -0.227509332 | |
| 7 | 99,600,000 | 99,750,000 | 1329 | 1916 | 0.692394395 | |
| 7 | 99,675,000 | 99,825,000 | 1330 | 1567 | 0.383834139 | |
| 7 | 99,750,000 | 99,900,000 | 1331 | 1207 | -0.260835158 | |
| 7 | 99,825,000 | 99,975,000 | 1332 | 1310 | -0.999014414 | |
| 7 | 99,900,000 | 100,050,000 | 1333 | 1529 | -0.434235078 | |
| 7 | 99,975,000 | 100,125,000 | 1334 | 1373 | 0.405836774 | |
| 7 | 100,050,000 | 100,200,000 | 1335 | 739 | 0.091119073 | |
| 7 | 100,125,000 | 100,275,000 | 1336 | 262 | 0.405379278 | |
| 7 | 100,200,000 | 100,350,000 | 1337 | 673 | 0.845870039 | |
| 7 | 100,275,000 | 100,425,000 | 1338 | 940 | 0.273179765 | |
| 7 | 100,350,000 | 100,500,000 | 1339 | 648 | -0.103921965 | CHD1,RGMB |
| 7 | 100,425,000 | 100,575,000 | 1340 | 476 | -3.357856691 | CHD1,RGMB |
| 7 | 100,500,000 | 100,650,000 | 1341 | 454 | -3.619325562 | CHD1 |
| 7 | 100,575,000 | 100,725,000 | 1342 | 815 | -1.420597323 | |
| 7 | 100,650,000 | 100,800,000 | 1343 | 1348 | -0.73799788 | |
| 7 | 100,725,000 | 100,875,000 | 1344 | 1366 | -0.088070669 | |
| 7 | 100,800,000 | 100,950,000 | 1345 | 975 | 0.293257568 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|------------------------|
| 7 | 100,875,000 | 101,025,000 | 1346 | 726 | 0.765500545 | |
| 7 | 100,950,000 | 101,100,000 | 1347 | 773 | 0.917119959 | |
| 7 | 101,025,000 | 101,175,000 | 1348 | 648 | 0.317716128 | |
| 7 | 101,100,000 | 101,250,000 | 1349 | 703 | -0.791514186 | |
| 7 | 101,175,000 | 101,325,000 | 1350 | 859 | -0.410636071 | |
| 7 | 101,250,000 | 101,400,000 | 1351 | 1008 | -0.309163013 | |
| 7 | 101,325,000 | 101,475,000 | 1352 | 898 | -0.298650313 | |
| 7 | 101,400,000 | 101,550,000 | 1353 | 1004 | 0.301089145 | |
| 7 | 101,475,000 | 101,625,000 | 1354 | 1382 | 0.491859998 | |
| 7 | 101,550,000 | 101,700,000 | 1355 | 1408 | 0.961598653 | |
| 7 | 101,625,000 | 101,775,000 | 1356 | 1247 | 0.822333991 | |
| 7 | 101,700,000 | 101,850,000 | 1357 | 1117 | 0.869626042 | |
| 7 | 101,775,000 | 101,925,000 | 1358 | 1428 | 1.177308186 | |
| 7 | 101,850,000 | 102,000,000 | 1359 | 1448 | 0.934827719 | |
| 7 | 101,925,000 | 102,075,000 | 1360 | 1439 | 0.873833142 | |
| 7 | 102,000,000 | 102,150,000 | 1361 | 1319 | 1.06551201 | |
| 7 | 102,075,000 | 102,225,000 | 1362 | 977 | 0.921745434 | |
| 7 | 102,150,000 | 102,300,000 | 1363 | 1280 | 0.825209457 | FAM174A |
| 7 | 102,225,000 | 102,375,000 | 1364 | 1371 | 0.508254654 | FAM174A |
| 7 | 102,300,000 | 102,450,000 | 1365 | 952 | -0.176616621 | |
| 7 | 102,375,000 | 102,525,000 | 1366 | 924 | -0.078372428 | ST8SIA4 |
| 7 | 102,450,000 | 102,600,000 | 1367 | 1384 | -0.66779889 | ST8SIA4 |
| 7 | 102,525,000 | 102,675,000 | 1368 | 1315 | -0.462045843 | ST8SIA4 |
| 7 | 102,600,000 | 102,750,000 | 1369 | 716 | 0.523901143 | |
| 7 | 102,675,000 | 102,825,000 | 1370 | 784 | 0.180330963 | |
| 7 | 102,750,000 | 102,900,000 | 1371 | 1050 | 0.197212136 | |
| 7 | 102,825,000 | 102,975,000 | 1372 | 1167 | -0.028120053 | |
| 7 | 102,900,000 | 103,050,000 | 1373 | 1266 | -0.195081492 | |
| 7 | 102,975,000 | 103,125,000 | 1374 | 1353 | -0.165674751 | |
| 7 | 103,050,000 | 103,200,000 | 1375 | 1549 | -0.226353379 | |
| 7 | 103,125,000 | 103,275,000 | 1376 | 1633 | 0.648990514 | |
| 7 | 103,200,000 | 103,350,000 | 1377 | 1638 | 1.330300189 | |
| 7 | 103,275,000 | 103,425,000 | 1378 | 1368 | 1.352424313 | |
| 7 | 103,350,000 | 103,500,000 | 1379 | 1228 | -1.875536826 | |
| 7 | 103,425,000 | 103,575,000 | 1380 | 958 | -2.836883588 | |
| 7 | 103,500,000 | 103,650,000 | 1381 | 724 | 0.94587167 | |
| 7 | 103,575,000 | 103,725,000 | 1382 | 756 | 0.598572667 | SLCO4C1 |
| 7 | 103,650,000 | 103,800,000 | 1383 | 568 | 0.362613025 | SLCO4C1 |
| 7 | 103,725,000 | 103,875,000 | 1384 | 934 | 0.220004982 | SLCO4C1,SLCO6A1 |
| 7 | 103,800,000 | 103,950,000 | 1385 | 1255 | 0.524481928 | SLCO6A1 |
| 7 | 103,875,000 | 104,025,000 | 1386 | 1105 | 0.985068038 | SLCO6A1 |
| 7 | 103,950,000 | 104,100,000 | 1387 | 1137 | -0.53970449 | |
| 7 | 104,025,000 | 104,175,000 | 1388 | 1380 | -0.883480809 | |
| 7 | 104,100,000 | 104,250,000 | 1389 | 1110 | 0.218760434 | |
| 7 | 104,175,000 | 104,325,000 | 1390 | 668 | -0.442018961 | PAM |
| 7 | 104,250,000 | 104,400,000 | 1391 | 588 | -0.009337736 | PAM |
| 7 | 104,325,000 | 104,475,000 | 1392 | 600 | 0.254083685 | PAM |
| 7 | 104,400,000 | 104,550,000 | 1393 | 634 | -0.625253791 | GIN1,PAM |
| 7 | 104,475,000 | 104,625,000 | 1394 | 477 | -0.678696269 | GIN1,PAM,PPIP5K2 |
| 7 | 104,550,000 | 104,700,000 | 1395 | 464 | 0.352573363 | C7H5orf30,GIN1,PPIP5K2 |
| 7 | 104,625,000 | 104,775,000 | 1396 | 846 | 0.985055478 | C7H5orf30,PPIP5K2 |
| 7 | 104,700,000 | 104,850,000 | 1397 | 1192 | 1.004075407 | C7H5orf30 |
| 7 | 104,775,000 | 104,925,000 | 1398 | 1032 | 0.71227064 | ENSBTAG00000027727 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------------------|
| 7 | 104,850,000 | 105,000,000 | 1399 | 674 | -0.762806367 | ENSBTAG00000027727 |
| 7 | 104,925,000 | 105,075,000 | 1400 | 513 | -1.240827073 | NUDT12,ENSBTAG00000027727 |
| 7 | 105,000,000 | 105,150,000 | 1401 | 978 | 0.891627458 | NUDT12,ENSBTAG00000027727 |
| 7 | 105,075,000 | 105,225,000 | 1402 | 1391 | 0.627892379 | |
| 7 | 105,150,000 | 105,300,000 | 1403 | 1176 | -0.096179647 | |
| 7 | 105,225,000 | 105,375,000 | 1404 | 1025 | -0.784657442 | ENSBTAG00000030204 |
| 7 | 105,300,000 | 105,450,000 | 1405 | 793 | -0.583981087 | ENSBTAG00000030204,ENSBTAG00000046867 |
| 7 | 105,375,000 | 105,525,000 | 1406 | 844 | 0.17626359 | ENSBTAG00000046867 |
| 7 | 105,450,000 | 105,600,000 | 1407 | 1120 | -0.327333684 | |
| 7 | 105,525,000 | 105,675,000 | 1408 | 846 | -0.666759296 | |
| 7 | 105,600,000 | 105,750,000 | 1409 | 706 | -2.192791893 | |
| 7 | 105,675,000 | 105,825,000 | 1410 | 799 | -2.10974312 | |
| 7 | 105,750,000 | 105,900,000 | 1411 | 376 | -0.47294327 | |
| 7 | 105,825,000 | 105,975,000 | 1412 | 258 | 0.599371172 | |
| 7 | 105,900,000 | 106,050,000 | 1413 | 758 | 0.217117256 | |
| 7 | 105,975,000 | 106,125,000 | 1414 | 1002 | -0.279221028 | |
| 7 | 106,050,000 | 106,200,000 | 1415 | 1062 | -0.072280816 | |
| 7 | 106,125,000 | 106,275,000 | 1416 | 1087 | 0.40605962 | |
| 7 | 106,200,000 | 106,350,000 | 1417 | 847 | 0.18091193 | |
| 7 | 106,275,000 | 106,425,000 | 1418 | 819 | -1.310969767 | |
| 7 | 106,350,000 | 106,500,000 | 1419 | 828 | -1.406307851 | |
| 7 | 106,425,000 | 106,575,000 | 1420 | 727 | -0.051550392 | |
| 7 | 106,500,000 | 106,650,000 | 1421 | 908 | 0.657711113 | |
| 7 | 106,575,000 | 106,725,000 | 1422 | 1006 | 0.223297259 | |
| 7 | 106,650,000 | 106,800,000 | 1423 | 1303 | -0.42768922 | |
| 7 | 106,725,000 | 106,875,000 | 1424 | 1489 | -0.367501667 | |
| 7 | 106,800,000 | 106,950,000 | 1425 | 1077 | -0.151499555 | |
| 7 | 106,875,000 | 107,025,000 | 1426 | 802 | -0.072255894 | |
| 7 | 106,950,000 | 107,100,000 | 1427 | 710 | -0.7251959 | |
| 7 | 107,025,000 | 107,175,000 | 1428 | 1147 | 0.22340071 | |
| 7 | 107,100,000 | 107,250,000 | 1429 | 1777 | 0.342938314 | |
| 7 | 107,175,000 | 107,325,000 | 1430 | 1647 | -0.403052858 | |
| 7 | 107,250,000 | 107,400,000 | 1431 | 1366 | -0.131503604 | |
| 7 | 107,325,000 | 107,475,000 | 1432 | 1454 | 0.972492884 | |
| 7 | 107,400,000 | 107,550,000 | 1433 | 1427 | 0.740308887 | |
| 7 | 107,475,000 | 107,625,000 | 1434 | 1118 | 0.28767021 | |
| 7 | 107,550,000 | 107,700,000 | 1435 | 1105 | 0.496374644 | |
| 7 | 107,625,000 | 107,775,000 | 1436 | 1429 | 0.367292397 | |
| 7 | 107,700,000 | 107,850,000 | 1437 | 1503 | 0.381878914 | |
| 7 | 107,775,000 | 107,925,000 | 1438 | 1352 | 0.314093801 | |
| 7 | 107,850,000 | 108,000,000 | 1439 | 1280 | 0.336616663 | |
| 7 | 107,925,000 | 108,075,000 | 1440 | 1468 | 0.855110593 | |
| 7 | 108,000,000 | 108,150,000 | 1441 | 1626 | 0.929822557 | |
| 7 | 108,075,000 | 108,225,000 | 1442 | 1457 | 0.291070966 | |
| 7 | 108,150,000 | 108,300,000 | 1443 | 1237 | -0.287265852 | |
| 7 | 108,225,000 | 108,375,000 | 1444 | 1088 | -0.45162046 | |
| 7 | 108,300,000 | 108,450,000 | 1445 | 1184 | -0.63570306 | |
| 7 | 108,375,000 | 108,525,000 | 1446 | 1113 | -0.520224211 | |
| 7 | 108,450,000 | 108,600,000 | 1447 | 974 | 0.14185529 | |
| 7 | 108,525,000 | 108,675,000 | 1448 | 897 | 0.302362872 | |
| 7 | 108,600,000 | 108,750,000 | 1449 | 604 | 0.616528253 | |
| 7 | 108,675,000 | 108,825,000 | 1450 | 613 | -0.51754015 | |
| 7 | 108,750,000 | 108,900,000 | 1451 | 742 | -0.90230384 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|-------------------|
| 7 | 108,825,000 | 108,975,000 | 1452 | 723 | 0.024962438 | |
| 7 | 108,900,000 | 109,050,000 | 1453 | 784 | 0.692956961 | EFNA5 |
| 7 | 108,975,000 | 109,125,000 | 1454 | 806 | 0.54654594 | EFNA5 |
| 7 | 109,050,000 | 109,200,000 | 1455 | 1063 | 0.151977461 | EFNA5 |
| 7 | 109,125,000 | 109,275,000 | 1456 | 1245 | 0.150298033 | EFNA5 |
| 7 | 109,200,000 | 109,350,000 | 1457 | 1121 | 0.753763732 | EFNA5 |
| 7 | 109,275,000 | 109,425,000 | 1458 | 1411 | 0.586625086 | |
| 7 | 109,350,000 | 109,500,000 | 1459 | 1798 | 0.205385773 | |
| 7 | 109,425,000 | 109,575,000 | 1460 | 1938 | 0.485484744 | |
| 7 | 109,500,000 | 109,650,000 | 1461 | 1827 | 0.515343689 | |
| 7 | 109,575,000 | 109,725,000 | 1462 | 1806 | 0.4870286 | |
| 7 | 109,650,000 | 109,800,000 | 1463 | 1683 | 0.92317775 | |
| 7 | 109,725,000 | 109,875,000 | 1464 | 1362 | 1.302282803 | |
| 7 | 109,800,000 | 109,950,000 | 1465 | 1386 | 1.342556637 | |
| 7 | 109,875,000 | 110,025,000 | 1466 | 1222 | 1.121680176 | FBXL17 |
| 7 | 109,950,000 | 110,100,000 | 1467 | 959 | 0.553395102 | FBXL17 |
| 7 | 110,025,000 | 110,175,000 | 1468 | 1169 | 0.669939635 | FBXL17 |
| 7 | 110,100,000 | 110,250,000 | 1469 | 1461 | 0.86313521 | |
| 7 | 110,175,000 | 110,325,000 | 1470 | 1594 | 0.648758215 | |
| 7 | 110,250,000 | 110,400,000 | 1471 | 1782 | 0.700644439 | |
| 7 | 110,325,000 | 110,475,000 | 1472 | 1716 | 1.023095952 | FER |
| 7 | 110,400,000 | 110,550,000 | 1473 | 1509 | 1.167042835 | FER |
| 7 | 110,475,000 | 110,625,000 | 1474 | 1457 | 0.895953176 | FER |
| 7 | 110,550,000 | 110,700,000 | 1475 | 1321 | -0.573893 | FER |
| 7 | 110,625,000 | 110,775,000 | 1476 | 1190 | -2.052983731 | FER |
| 7 | 110,700,000 | 110,850,000 | 1477 | 1290 | -0.435843429 | FER |
| 7 | 110,775,000 | 110,925,000 | 1478 | 1574 | 0.229782571 | FER |
| 7 | 110,850,000 | 111,000,000 | 1479 | 2051 | 0.474329912 | FER |
| 7 | 110,925,000 | 111,075,000 | 1480 | 2054 | 0.896991949 | PJA2 |
| 7 | 111,000,000 | 111,150,000 | 1481 | 1814 | 0.403617434 | PJA2 |
| 7 | 111,075,000 | 111,225,000 | 1482 | 1928 | -0.520736681 | PJA2 |
| 7 | 111,150,000 | 111,300,000 | 1483 | 2161 | -0.367034789 | |
| 7 | 111,225,000 | 111,375,000 | 1484 | 1849 | 0.387946179 | |
| 7 | 111,300,000 | 111,450,000 | 1485 | 1444 | 0.899905376 | MAN2A1 |
| 7 | 111,375,000 | 111,525,000 | 1486 | 1415 | 0.836185543 | MAN2A1 |
| 7 | 111,450,000 | 111,600,000 | 1487 | 1147 | 0.397044066 | MAN2A1 |
| 7 | 111,525,000 | 111,675,000 | 1488 | 1607 | 0.979122288 | MAN2A1 |
| 7 | 111,600,000 | 111,750,000 | 1489 | 1560 | 0.765789126 | MAN2A1 |
| 7 | 111,675,000 | 111,825,000 | 1490 | 1199 | 0.450192762 | |
| 7 | 111,750,000 | 111,900,000 | 1491 | 1347 | 0.933405929 | |
| 7 | 111,825,000 | 111,975,000 | 1492 | 1268 | 0.900419641 | |
| 7 | 111,900,000 | 112,050,000 | 1493 | 1349 | 0.664673485 | |
| 7 | 111,975,000 | 112,125,000 | 1494 | 1632 | 0.497039825 | |
| 7 | 112,050,000 | 112,200,000 | 1495 | 1736 | 0.170567454 | TMEM232 |
| 7 | 112,125,000 | 112,275,000 | 1496 | 1291 | -0.143092264 | TMEM232 |
| 7 | 112,200,000 | 112,350,000 | 1497 | 957 | 0.350769155 | SLC25A46, TMEM232 |
| 7 | 112,275,000 | 112,425,000 | 1498 | 629 | 0.510615441 | SLC25A46, TMEM232 |
| 7 | 112,350,000 | 112,500,000 | 1499 | 376 | 0.506107051 | SLC25A46 |
| 7 | 112,425,000 | 112,575,000 | 1500 | 448 | 0.408974776 | |
| 7 | 112,500,000 | 112,638,659 | 1501 | 395 | 0.417936835 | |
| 8 | 0 | 150,000 | 1 | 253 | 0.365495384 | HIATL1 |
| 8 | 75,000 | 225,000 | 2 | 318 | 0.04236309 | HIATL1 |
| 8 | 150,000 | 300,000 | 3 | 359 | -0.100154934 | HIATL1 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|----------------------------------|
| 8 | 225,000 | 375,000 | 4 | 456 | 0.322315956 | ANXA10,HIATL1 |
| 8 | 300,000 | 450,000 | 5 | 724 | 0.665868618 | ANXA10 |
| 8 | 375,000 | 525,000 | 6 | 790 | 0.975565536 | ANXA10 |
| 8 | 450,000 | 600,000 | 7 | 897 | 0.891023217 | ANXA10,PALLD |
| 8 | 525,000 | 675,000 | 8 | 1021 | 0.930622803 | ANXA10,PALLD |
| 8 | 600,000 | 750,000 | 9 | 923 | 0.923453996 | PALLD |
| 8 | 675,000 | 825,000 | 10 | 869 | 0.2630803 | PALLD |
| 8 | 750,000 | 900,000 | 11 | 784 | 0.071562545 | PALLD |
| 8 | 825,000 | 975,000 | 12 | 662 | 0.434904187 | CBR4,PALLD |
| 8 | 900,000 | 1,050,000 | 13 | 721 | 0.426265539 | CBR4,PALLD,SH3RF1 |
| 8 | 975,000 | 1,125,000 | 14 | 758 | 0.368402494 | SH3RF1 |
| 8 | 1,050,000 | 1,200,000 | 15 | 913 | 0.655651624 | SH3RF1 |
| 8 | 1,125,000 | 1,275,000 | 16 | 1285 | 0.787045984 | NEK1 |
| 8 | 1,200,000 | 1,350,000 | 17 | 1345 | 0.21005471 | NEK1 |
| 8 | 1,275,000 | 1,425,000 | 18 | 1098 | -0.697629664 | NEK1 |
| 8 | 1,350,000 | 1,500,000 | 19 | 714 | 0.275939851 | CLCN3,NEK1 |
| 8 | 1,425,000 | 1,575,000 | 20 | 573 | 0.094720092 | C4orf27,CLCN3,ENSBTAG00000035293 |
| 8 | 1,500,000 | 1,650,000 | 21 | 854 | 0.200669465 | C4orf27,CLCN3,ENSBTAG00000035293 |
| 8 | 1,575,000 | 1,725,000 | 22 | 912 | 0.347502354 | MFAP3L |
| 8 | 1,650,000 | 1,800,000 | 23 | 988 | 0.668254643 | AADAT,MFAP3L |
| 8 | 1,725,000 | 1,875,000 | 24 | 1165 | 0.508225402 | AADAT |
| 8 | 1,800,000 | 1,950,000 | 25 | 937 | -0.910912288 | AADAT |
| 8 | 1,875,000 | 2,025,000 | 26 | 868 | -0.553833065 | |
| 8 | 1,950,000 | 2,100,000 | 27 | 964 | 0.609829339 | |
| 8 | 2,025,000 | 2,175,000 | 28 | 841 | 0.420932746 | |
| 8 | 2,100,000 | 2,250,000 | 29 | 1022 | -0.354014271 | |
| 8 | 2,175,000 | 2,325,000 | 30 | 1400 | -0.376271676 | |
| 8 | 2,250,000 | 2,400,000 | 31 | 1167 | -0.908192735 | |
| 8 | 2,325,000 | 2,475,000 | 32 | 815 | -0.553549584 | |
| 8 | 2,400,000 | 2,550,000 | 33 | 968 | 1.02122562 | |
| 8 | 2,475,000 | 2,625,000 | 34 | 921 | 0.804539632 | |
| 8 | 2,550,000 | 2,700,000 | 35 | 869 | 0.675359159 | |
| 8 | 2,625,000 | 2,775,000 | 36 | 921 | 0.701002079 | |
| 8 | 2,700,000 | 2,850,000 | 37 | 571 | 0.467149921 | |
| 8 | 2,775,000 | 2,925,000 | 38 | 773 | 1.057498758 | |
| 8 | 2,850,000 | 3,000,000 | 39 | 1096 | 1.360401509 | |
| 8 | 2,925,000 | 3,075,000 | 40 | 879 | -0.148097131 | |
| 8 | 3,000,000 | 3,150,000 | 41 | 1020 | -0.833154395 | |
| 8 | 3,075,000 | 3,225,000 | 42 | 1333 | -0.943386449 | |
| 8 | 3,150,000 | 3,300,000 | 43 | 1300 | -3.11882784 | |
| 8 | 3,225,000 | 3,375,000 | 44 | 1256 | -2.233908069 | |
| 8 | 3,300,000 | 3,450,000 | 45 | 1222 | -0.215163633 | |
| 8 | 3,375,000 | 3,525,000 | 46 | 1468 | -1.68645757 | |
| 8 | 3,450,000 | 3,600,000 | 47 | 1622 | -0.996824793 | |
| 8 | 3,525,000 | 3,675,000 | 48 | 1451 | 0.585977746 | |
| 8 | 3,600,000 | 3,750,000 | 49 | 1122 | 0.430486408 | |
| 8 | 3,675,000 | 3,825,000 | 50 | 1073 | -0.181722391 | GALNTL6 |
| 8 | 3,750,000 | 3,900,000 | 51 | 1179 | -0.334495078 | GALNTL6 |
| 8 | 3,825,000 | 3,975,000 | 52 | 814 | -0.142926743 | GALNTL6 |
| 8 | 3,900,000 | 4,050,000 | 53 | 627 | 0.610606826 | GALNTL6 |
| 8 | 3,975,000 | 4,125,000 | 54 | 648 | 0.484789184 | GALNTL6 |
| 8 | 4,050,000 | 4,200,000 | 55 | 768 | 0.715278961 | GALNTL6 |
| 8 | 4,125,000 | 4,275,000 | 56 | 979 | 0.222542788 | GALNTL6 |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|---|
| 8 | 4,200,000 | 4,350,000 | 57 | 953 | -0.160232917 | GALNTL6 |
| 8 | 4,275,000 | 4,425,000 | 58 | 936 | -0.12324588 | GALNTL6 |
| 8 | 4,350,000 | 4,500,000 | 59 | 1055 | 0.199497707 | GALNTL6 |
| 8 | 4,425,000 | 4,575,000 | 60 | 969 | 0.491331014 | GALNTL6 |
| 8 | 4,500,000 | 4,650,000 | 61 | 751 | 0.033826182 | GALNTL6 |
| 8 | 4,575,000 | 4,725,000 | 62 | 1192 | -0.030698478 | GALNTL6 |
| 8 | 4,650,000 | 4,800,000 | 63 | 1273 | -0.233318224 | GALNTL6 |
| 8 | 4,725,000 | 4,875,000 | 64 | 591 | -0.894133978 | GALNTL6 |
| 8 | 4,800,000 | 4,950,000 | 65 | 414 | -0.829090227 | GALNTL6 |
| 8 | 4,875,000 | 5,025,000 | 66 | 635 | -0.308419821 | GALNTL6 |
| 8 | 4,950,000 | 5,100,000 | 67 | 813 | -0.900591481 | GALNTL6 |
| 8 | 5,025,000 | 5,175,000 | 68 | 868 | -4.199663923 | GALNTL6 |
| 8 | 5,100,000 | 5,250,000 | 69 | 783 | -3.715855246 | GALNTL6 |
| 8 | 5,175,000 | 5,325,000 | 70 | 880 | 0.690651003 | GALNTL6 |
| 8 | 5,250,000 | 5,400,000 | 71 | 1298 | 1.021641165 | GALNTL6 |
| 8 | 5,325,000 | 5,475,000 | 72 | 1343 | 0.95716934 | GALNTL6 |
| 8 | 5,400,000 | 5,550,000 | 73 | 1369 | 0.933792386 | GALNT7 |
| 8 | 5,475,000 | 5,625,000 | 74 | 1259 | 0.750315853 | GALNT7,HMGB2,SAP30 |
| 8 | 5,550,000 | 5,700,000 | 75 | 999 | 0.845895797 | GALNT7,HMGB2,SAP30,SCRG1 |
| 8 | 5,625,000 | 5,775,000 | 76 | 879 | 0.850844807 | HAND2,SCRG1 |
| 8 | 5,700,000 | 5,850,000 | 77 | 736 | 0.765903869 | HAND2 |
| 8 | 5,775,000 | 5,925,000 | 78 | 770 | 0.736978867 | |
| 8 | 5,850,000 | 6,000,000 | 79 | 1124 | 0.097919559 | |
| 8 | 5,925,000 | 6,075,000 | 80 | 1079 | -0.011627757 | |
| 8 | 6,000,000 | 6,150,000 | 81 | 668 | 0.354336905 | |
| 8 | 6,075,000 | 6,225,000 | 82 | 639 | 0.543808152 | |
| 8 | 6,150,000 | 6,300,000 | 83 | 688 | 0.574241136 | |
| 8 | 6,225,000 | 6,375,000 | 84 | 594 | 0.413372883 | |
| 8 | 6,300,000 | 6,450,000 | 85 | 660 | -0.658382722 | CEP44,FBXO8 |
| 8 | 6,375,000 | 6,525,000 | 86 | 654 | -1.094622024 | CEP44,FBXO8 |
| 8 | 6,450,000 | 6,600,000 | 87 | 776 | -0.018924374 | CEP44 |
| 8 | 6,525,000 | 6,675,000 | 88 | 1096 | 0.942697962 | HPGD |
| 8 | 6,600,000 | 6,750,000 | 89 | 1209 | 1.140873196 | HPGD |
| 8 | 6,675,000 | 6,825,000 | 90 | 1046 | 1.1779897 | GLRA3,HPGD |
| 8 | 6,750,000 | 6,900,000 | 91 | 892 | 1.303710586 | GLRA3 |
| 8 | 6,825,000 | 6,975,000 | 92 | 946 | 1.261331482 | GLRA3 |
| 8 | 6,900,000 | 7,050,000 | 93 | 995 | 0.851047746 | GLRA3 |
| 8 | 6,975,000 | 7,125,000 | 94 | 794 | 0.444926934 | ENSBTAG00000035768 |
| 8 | 7,050,000 | 7,200,000 | 95 | 523 | 0.467008321 | ENSBTAG00000008678,ENSBTAG00000025954,ENSBTAG00000035768,ENSBTAG00000039873 |
| 8 | 7,125,000 | 7,275,000 | 96 | 692 | -0.028846685 | ENSBTAG00000008678,ENSBTAG00000025954,ENSBTAG00000039873 |
| 8 | 7,200,000 | 7,350,000 | 97 | 1121 | -1.27335538 | |
| 8 | 7,275,000 | 7,425,000 | 98 | 1298 | -0.755015016 | CTSB |
| 8 | 7,350,000 | 7,500,000 | 99 | 1223 | 0.809723686 | CTSB,FDFT1,GATA4,NEIL2 |
| 8 | 7,425,000 | 7,575,000 | 100 | 988 | 0.969702754 | FDFT1,GATA4,NEIL2 |
| 8 | 7,500,000 | 7,650,000 | 101 | 968 | 0.921983482 | GATA4 |
| 8 | 7,575,000 | 7,725,000 | 102 | 1245 | 1.250905213 | BLK |
| 8 | 7,650,000 | 7,800,000 | 103 | 1203 | 1.17719119 | BLK,FAM167A,TDH |
| 8 | 7,725,000 | 7,875,000 | 104 | 1062 | 0.137182167 | FAM167A,MTMR9,TDH |
| 8 | 7,800,000 | 7,950,000 | 105 | 1234 | 0.405095138 | MTMR9,TDH |
| 8 | 7,875,000 | 8,025,000 | 106 | 1173 | 1.171635906 | MTMR9,XKR6 |
| 8 | 7,950,000 | 8,100,000 | 107 | 744 | 1.469252843 | XKR6 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 8,025,000 | 8,175,000 | 108 | 805 | 0.732881404 | |
| 8 | 8,100,000 | 8,250,000 | 109 | 781 | 0.539415813 | |
| 8 | 8,175,000 | 8,325,000 | 110 | 775 | 0.465203956 | FLJ20565,ENSBTAG00000048007 |
| 8 | 8,250,000 | 8,400,000 | 111 | 854 | 0.455325637 | FLJ20565,ENSBTAG00000048007 |
| 8 | 8,325,000 | 8,475,000 | 112 | 785 | 0.695918149 | C8orf74,FLJ20565,SOX7 |
| 8 | 8,400,000 | 8,550,000 | 113 | 980 | 0.236192562 | C8orf74,RP1L1,SOX7 |
| 8 | 8,475,000 | 8,625,000 | 114 | 1033 | 0.485522465 | PRSS55,RP1L1,ENSBTAG00000038291,ENSBTAG0000040038 |
| 8 | 8,550,000 | 8,700,000 | 115 | 727 | 0.779140138 | MSRA,PRSS55,ENSBTAG00000038291,ENSBTAG0000040038 |
| 8 | 8,625,000 | 8,775,000 | 116 | 520 | 0.761261868 | MSRA,ENSBTAG00000040038 |
| 8 | 8,700,000 | 8,850,000 | 117 | 457 | 0.952579787 | MSRA |
| 8 | 8,775,000 | 8,925,000 | 118 | 734 | 0.486751343 | MSRA |
| 8 | 8,850,000 | 9,000,000 | 119 | 948 | 0.428543575 | MSRA |
| 8 | 8,925,000 | 9,075,000 | 120 | 817 | 0.502951286 | MSRA |
| 8 | 9,000,000 | 9,150,000 | 121 | 612 | 0.548397069 | MSRA |
| 8 | 9,075,000 | 9,225,000 | 122 | 554 | 0.28953464 | |
| 8 | 9,150,000 | 9,300,000 | 123 | 943 | -1.27950738 | KIF13B |
| 8 | 9,225,000 | 9,375,000 | 124 | 1043 | -0.805745111 | KIF13B |
| 8 | 9,300,000 | 9,450,000 | 125 | 1071 | 1.087975277 | KIF13B |
| 8 | 9,375,000 | 9,525,000 | 126 | 1065 | 0.754605618 | HMBOX1,KIF13B |
| 8 | 9,450,000 | 9,600,000 | 127 | 883 | 0.481941836 | HMBOX1,KIF13B |
| 8 | 9,525,000 | 9,675,000 | 128 | 971 | -1.104685078 | HMBOX1 |
| 8 | 9,600,000 | 9,750,000 | 129 | 882 | -1.62104127 | HMBOX1,INTS9 |
| 8 | 9,675,000 | 9,825,000 | 130 | 918 | -0.643060611 | HMBOX1,INTS9 |
| 8 | 9,750,000 | 9,900,000 | 131 | 831 | -1.087420253 | EXTL3,INTS9 |
| 8 | 9,825,000 | 9,975,000 | 132 | 406 | -1.964556872 | EXTL3 |
| 8 | 9,900,000 | 10,050,000 | 133 | 485 | -0.87448981 | FZD3 |
| 8 | 9,975,000 | 10,125,000 | 134 | 508 | -0.45304645 | FZD3,ENSBTAG00000034626 |
| 8 | 10,050,000 | 10,200,000 | 135 | 419 | -0.643535788 | FZD3,ZNF395,ENSBTAG00000034626 |
| 8 | 10,125,000 | 10,275,000 | 136 | 589 | 0.577156183 | PNOC,ZNF395,ENSBTAG00000034626 |
| 8 | 10,200,000 | 10,350,000 | 137 | 790 | 1.348225754 | PNOC,ZNF395 |
| 8 | 10,275,000 | 10,425,000 | 138 | 734 | 1.360030528 | PNOC |
| 8 | 10,350,000 | 10,500,000 | 139 | 832 | 0.989485673 | ELP3 |
| 8 | 10,425,000 | 10,575,000 | 140 | 1378 | 0.341243867 | ELP3 |
| 8 | 10,500,000 | 10,650,000 | 141 | 1668 | -0.023646528 | ELP3,NUGGC |
| 8 | 10,575,000 | 10,725,000 | 142 | 1490 | -0.5226175 | ELP3,NUGGC,SCARA5 |
| 8 | 10,650,000 | 10,800,000 | 143 | 1201 | -1.059661645 | SCARA5 |
| 8 | 10,725,000 | 10,875,000 | 144 | 890 | -0.814078406 | ESCO2,PBK,SCARA5 |
| 8 | 10,800,000 | 10,950,000 | 145 | 802 | -0.022198299 | CCDC25,ESCO2,PBK |
| 8 | 10,875,000 | 11,025,000 | 146 | 731 | 0.386137446 | CCDC25,ESCO2,SCARA3 |
| 8 | 10,950,000 | 11,100,000 | 147 | 1058 | 0.534766307 | CLU,SCARA3 |
| 8 | 11,025,000 | 11,175,000 | 148 | 1687 | 1.009608955 | CLU |
| 8 | 11,100,000 | 11,250,000 | 149 | 1964 | 1.098734699 | TMEM215 |
| 8 | 11,175,000 | 11,325,000 | 150 | 2171 | 6.76E-05 | TMEM215 |
| 8 | 11,250,000 | 11,400,000 | 151 | 1935 | -0.058958982 | NDUFB6,TOPORS |
| 8 | 11,325,000 | 11,475,000 | 152 | 1610 | 0.428170343 | DDX58,NDUFB6,TOPORS |
| 8 | 11,400,000 | 11,550,000 | 153 | 1702 | 0.227571316 | ACO1,DDX58,TOPORS |
| 8 | 11,475,000 | 11,625,000 | 154 | 1769 | 0.180055681 | ACO1 |
| 8 | 11,550,000 | 11,700,000 | 155 | 1646 | 0.520906759 | |
| 8 | 11,625,000 | 11,775,000 | 156 | 1690 | 0.697158639 | |
| 8 | 11,700,000 | 11,850,000 | 157 | 1593 | 0.497238527 | |
| 8 | 11,775,000 | 11,925,000 | 158 | 1731 | 0.396155102 | |

| | | | | | |
|---|------------|------------|-----|------|--------------|
| 8 | 11,850,000 | 12,000,000 | 159 | 1372 | 0.654908116 |
| 8 | 11,925,000 | 12,075,000 | 160 | 1148 | 0.549344578 |
| 8 | 12,000,000 | 12,150,000 | 161 | 1430 | -0.056891399 |
| 8 | 12,075,000 | 12,225,000 | 162 | 1350 | -0.317688395 |
| 8 | 12,150,000 | 12,300,000 | 163 | 1277 | 0.141154626 |
| 8 | 12,225,000 | 12,375,000 | 164 | 766 | 0.46339294 |
| 8 | 12,300,000 | 12,450,000 | 165 | 624 | -0.6579894 |
| 8 | 12,375,000 | 12,525,000 | 166 | 716 | -0.718633773 |
| 8 | 12,450,000 | 12,600,000 | 167 | 597 | 0.10716939 |
| 8 | 12,525,000 | 12,675,000 | 168 | 842 | 0.129979226 |
| 8 | 12,600,000 | 12,750,000 | 169 | 1106 | 0.069456387 |
| 8 | 12,675,000 | 12,825,000 | 170 | 1137 | 0.276967211 |
| 8 | 12,750,000 | 12,900,000 | 171 | 918 | 0.508148775 |
| 8 | 12,825,000 | 12,975,000 | 172 | 743 | -3.286918421 |
| 8 | 12,900,000 | 13,050,000 | 173 | 1016 | -4.024184945 |
| 8 | 12,975,000 | 13,125,000 | 174 | 1186 | -1.443788388 |
| 8 | 13,050,000 | 13,200,000 | 175 | 1283 | 0.15857314 |
| 8 | 13,125,000 | 13,275,000 | 176 | 1453 | 0.279081008 |
| 8 | 13,200,000 | 13,350,000 | 177 | 1675 | -0.151288746 |
| 8 | 13,275,000 | 13,425,000 | 178 | 1069 | 0.302890781 |
| 8 | 13,350,000 | 13,500,000 | 179 | 939 | 0.878577327 |
| 8 | 13,425,000 | 13,575,000 | 180 | 1045 | 0.579538382 |
| 8 | 13,500,000 | 13,650,000 | 181 | 513 | -0.279954881 |
| 8 | 13,575,000 | 13,725,000 | 182 | 738 | 0.094719119 |
| 8 | 13,650,000 | 13,800,000 | 183 | 1044 | 0.008227615 |
| 8 | 13,725,000 | 13,875,000 | 184 | 1322 | -0.489607806 |
| 8 | 13,800,000 | 13,950,000 | 185 | 1567 | -0.604923456 |
| 8 | 13,875,000 | 14,025,000 | 186 | 1542 | -0.192870735 |
| 8 | 13,950,000 | 14,100,000 | 187 | 1288 | 0.202888231 |
| 8 | 14,025,000 | 14,175,000 | 188 | 1098 | 0.111725186 |
| 8 | 14,100,000 | 14,250,000 | 189 | 973 | -0.162797531 |
| 8 | 14,175,000 | 14,325,000 | 190 | 956 | -0.337895419 |
| 8 | 14,250,000 | 14,400,000 | 191 | 760 | -0.594864514 |
| 8 | 14,325,000 | 14,475,000 | 192 | 704 | -1.782247234 |
| 8 | 14,400,000 | 14,550,000 | 193 | 736 | -1.879145895 |
| 8 | 14,475,000 | 14,625,000 | 194 | 572 | -0.284681309 |
| 8 | 14,550,000 | 14,700,000 | 195 | 1075 | 0.743491471 |
| 8 | 14,625,000 | 14,775,000 | 196 | 1225 | 0.864216823 |
| 8 | 14,700,000 | 14,850,000 | 197 | 780 | 0.503944303 |
| 8 | 14,775,000 | 14,925,000 | 198 | 719 | -1.210477208 |
| 8 | 14,850,000 | 15,000,000 | 199 | 723 | -2.251865885 |
| 8 | 14,925,000 | 15,075,000 | 200 | 893 | -1.186934523 |
| 8 | 15,000,000 | 15,150,000 | 201 | 1084 | -2.352921486 |
| 8 | 15,075,000 | 15,225,000 | 202 | 893 | -4.152069586 |
| 8 | 15,150,000 | 15,300,000 | 203 | 782 | -2.985526832 |
| 8 | 15,225,000 | 15,375,000 | 204 | 1001 | 0.07705836 |
| 8 | 15,300,000 | 15,450,000 | 205 | 1347 | 0.461962113 |
| 8 | 15,375,000 | 15,525,000 | 206 | 1068 | -0.37846569 |
| 8 | 15,450,000 | 15,600,000 | 207 | 515 | -1.729090966 |
| 8 | 15,525,000 | 15,675,000 | 208 | 621 | -0.342850787 |
| 8 | 15,600,000 | 15,750,000 | 209 | 1077 | 0.507069758 |
| 8 | 15,675,000 | 15,825,000 | 210 | 1183 | -0.825474504 |
| 8 | 15,750,000 | 15,900,000 | 211 | 1088 | -0.78407169 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------------|
| 8 | 15,825,000 | 15,975,000 | 212 | 832 | 1.202079955 | |
| 8 | 15,900,000 | 16,050,000 | 213 | 728 | 0.832560943 | |
| 8 | 15,975,000 | 16,125,000 | 214 | 931 | 0.400630395 | |
| 8 | 16,050,000 | 16,200,000 | 215 | 989 | -0.070872515 | |
| 8 | 16,125,000 | 16,275,000 | 216 | 937 | 0.25704689 | LINGO2 |
| 8 | 16,200,000 | 16,350,000 | 217 | 818 | 0.761797944 | LINGO2 |
| 8 | 16,275,000 | 16,425,000 | 218 | 755 | -0.21199002 | |
| 8 | 16,350,000 | 16,500,000 | 219 | 869 | -1.092636629 | |
| 8 | 16,425,000 | 16,575,000 | 220 | 804 | -0.229081363 | |
| 8 | 16,500,000 | 16,650,000 | 221 | 632 | -0.089357568 | |
| 8 | 16,575,000 | 16,725,000 | 222 | 622 | -0.255128184 | C9orf72 |
| 8 | 16,650,000 | 16,800,000 | 223 | 645 | 0.698109024 | C9orf72,IFNK,MOB3B |
| 8 | 16,725,000 | 16,875,000 | 224 | 545 | 0.680564247 | IFNK,MOB3B |
| 8 | 16,800,000 | 16,950,000 | 225 | 718 | -0.217814495 | MOB3B |
| 8 | 16,875,000 | 17,025,000 | 226 | 1023 | -0.787401159 | EQTN,MOB3B,ENSBTAG00000020151 |
| 8 | 16,950,000 | 17,100,000 | 227 | 920 | -0.358695844 | EQTN,MOB3B,TEK,ENSBTAG00000020151 |
| 8 | 17,025,000 | 17,175,000 | 228 | 743 | 0.52607949 | TEK,ENSBTAG00000020151 |
| 8 | 17,100,000 | 17,250,000 | 229 | 517 | 0.563664307 | IFT74,LRRRC19,TEK |
| 8 | 17,175,000 | 17,325,000 | 230 | 367 | 0.72343773 | CAAP1,IFT74,LRRRC19,PLAA |
| 8 | 17,250,000 | 17,400,000 | 231 | 394 | 0.637718683 | CAAP1,IFT74,PLAA |
| 8 | 17,325,000 | 17,475,000 | 232 | 514 | 0.742212049 | CAAP1 |
| 8 | 17,400,000 | 17,550,000 | 233 | 644 | 0.699317966 | |
| 8 | 17,475,000 | 17,625,000 | 234 | 705 | 0.512920884 | |
| 8 | 17,550,000 | 17,700,000 | 235 | 1085 | -0.209680397 | |
| 8 | 17,625,000 | 17,775,000 | 236 | 990 | 0.011694409 | |
| 8 | 17,700,000 | 17,850,000 | 237 | 636 | -0.312923246 | |
| 8 | 17,775,000 | 17,925,000 | 238 | 817 | -1.365180569 | |
| 8 | 17,850,000 | 18,000,000 | 239 | 696 | -1.024130223 | |
| 8 | 17,925,000 | 18,075,000 | 240 | 609 | 0.26876154 | |
| 8 | 18,000,000 | 18,150,000 | 241 | 849 | -0.122155592 | |
| 8 | 18,075,000 | 18,225,000 | 242 | 923 | -0.806548722 | |
| 8 | 18,150,000 | 18,300,000 | 243 | 1282 | 0.100898182 | |
| 8 | 18,225,000 | 18,375,000 | 244 | 1468 | 0.589553182 | |
| 8 | 18,300,000 | 18,450,000 | 245 | 1487 | 0.148933001 | |
| 8 | 18,375,000 | 18,525,000 | 246 | 1278 | 0.110806405 | |
| 8 | 18,450,000 | 18,600,000 | 247 | 713 | -0.583260979 | TUSC1 |
| 8 | 18,525,000 | 18,675,000 | 248 | 622 | -0.687070729 | TUSC1 |
| 8 | 18,600,000 | 18,750,000 | 249 | 523 | 0.500591102 | |
| 8 | 18,675,000 | 18,825,000 | 250 | 662 | 0.547923703 | |
| 8 | 18,750,000 | 18,900,000 | 251 | 756 | 0.574962205 | |
| 8 | 18,825,000 | 18,975,000 | 252 | 805 | 1.28075871 | |
| 8 | 18,900,000 | 19,050,000 | 253 | 942 | 1.128624901 | |
| 8 | 18,975,000 | 19,125,000 | 254 | 847 | 0.585230249 | |
| 8 | 19,050,000 | 19,200,000 | 255 | 910 | 0.894062526 | |
| 8 | 19,125,000 | 19,275,000 | 256 | 692 | 0.775033965 | |
| 8 | 19,200,000 | 19,350,000 | 257 | 300 | -0.637874166 | |
| 8 | 19,275,000 | 19,425,000 | 258 | 145 | -1.411875244 | |
| 8 | 19,350,000 | 19,500,000 | 259 | 314 | 0.870003473 | |
| 8 | 19,425,000 | 19,575,000 | 260 | 572 | 0.528633387 | |
| 8 | 19,500,000 | 19,650,000 | 261 | 864 | -1.752096045 | IZUMO3 |
| 8 | 19,575,000 | 19,725,000 | 262 | 861 | -1.785755814 | IZUMO3 |
| 8 | 19,650,000 | 19,800,000 | 263 | 515 | 0.194212635 | |
| 8 | 19,725,000 | 19,875,000 | 264 | 822 | 0.255767146 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 19,800,000 | 19,950,000 | 265 | 1034 | -0.606742225 | |
| 8 | 19,875,000 | 20,025,000 | 266 | 786 | -2.897852258 | |
| 8 | 19,950,000 | 20,100,000 | 267 | 551 | -4.351942723 | |
| 8 | 20,025,000 | 20,175,000 | 268 | 453 | -1.368897129 | |
| 8 | 20,100,000 | 20,250,000 | 269 | 645 | 0.150972771 | |
| 8 | 20,175,000 | 20,325,000 | 270 | 741 | 0.537124839 | |
| 8 | 20,250,000 | 20,400,000 | 271 | 597 | 0.598139125 | ELAVL2 |
| 8 | 20,325,000 | 20,475,000 | 272 | 631 | 0.840443382 | ELAVL2 |
| 8 | 20,400,000 | 20,550,000 | 273 | 825 | 0.439118152 | ELAVL2 |
| 8 | 20,475,000 | 20,625,000 | 274 | 787 | 0.275378467 | |
| 8 | 20,550,000 | 20,700,000 | 275 | 738 | 0.425888015 | |
| 8 | 20,625,000 | 20,775,000 | 276 | 884 | 0.238321369 | |
| 8 | 20,700,000 | 20,850,000 | 277 | 932 | 0.647215674 | |
| 8 | 20,775,000 | 20,925,000 | 278 | 766 | 0.688330539 | |
| 8 | 20,850,000 | 21,000,000 | 279 | 610 | -0.245458004 | |
| 8 | 20,925,000 | 21,075,000 | 280 | 925 | -0.180888713 | |
| 8 | 21,000,000 | 21,150,000 | 281 | 989 | -0.001841818 | |
| 8 | 21,075,000 | 21,225,000 | 282 | 845 | -0.046325427 | |
| 8 | 21,150,000 | 21,300,000 | 283 | 809 | -0.637070035 | |
| 8 | 21,225,000 | 21,375,000 | 284 | 758 | -1.403036395 | |
| 8 | 21,300,000 | 21,450,000 | 285 | 721 | -1.852362198 | |
| 8 | 21,375,000 | 21,525,000 | 286 | 489 | -1.304848106 | |
| 8 | 21,450,000 | 21,600,000 | 287 | 499 | -0.508785265 | |
| 8 | 21,525,000 | 21,675,000 | 288 | 677 | -0.167830751 | |
| 8 | 21,600,000 | 21,750,000 | 289 | 720 | 0.548993499 | |
| 8 | 21,675,000 | 21,825,000 | 290 | 702 | 0.00124972 | DMRTA1 |
| 8 | 21,750,000 | 21,900,000 | 291 | 752 | 0.520848174 | DMRTA1 |
| 8 | 21,825,000 | 21,975,000 | 292 | 595 | 0.79337147 | |
| 8 | 21,900,000 | 22,050,000 | 293 | 319 | -0.507486995 | |
| 8 | 21,975,000 | 22,125,000 | 294 | 234 | -0.668030866 | CDKN2B |
| 8 | 22,050,000 | 22,200,000 | 295 | 297 | -0.781005288 | CDKN2A,CDKN2B |
| 8 | 22,125,000 | 22,275,000 | 296 | 406 | -1.34213103 | CDKN2A,ENSBTAG00000025929 |
| 8 | 22,200,000 | 22,350,000 | 297 | 624 | -1.046025853 | ENSBTAG00000025929 |
| 8 | 22,275,000 | 22,425,000 | 298 | 748 | -0.967331399 | |
| 8 | 22,350,000 | 22,500,000 | 299 | 645 | -0.596093276 | |
| 8 | 22,425,000 | 22,575,000 | 300 | 539 | 0.107262056 | IFNE |
| 8 | 22,500,000 | 22,650,000 | 301 | 827 | 0.124044011 | IFNE,IFNT |
| 8 | 22,575,000 | 22,725,000 | 302 | 987 | 0.126613591 | IFNT,INFAF,ENSBTAG00000025928,ENSBTAG00000047748,ENSBTAG00000048063 |
| 8 | 22,650,000 | 22,800,000 | 303 | 922 | -0.168035841 | IFNW1,INFAF,ENSBTAG00000025928,ENSBTAG00000046119,ENSBTAG00000046427,ENSBTAG00000047195,ENSBTAG00000047748,ENSBTAG00000047782,ENSBTAG00000048063 |
| 8 | 22,725,000 | 22,875,000 | 304 | 891 | -0.099377792 | IFN-TAU,IFNAG,IFNW1,ENSBTAG00000046119,ENSBTAG00000046427,ENSBTAG00000047195,ENSBTAG00000047745,ENSBTAG00000047782 |
| 8 | 22,800,000 | 22,950,000 | 305 | 641 | 0.178589145 | IFN-TAU,IFNAG,KLHL9,ENSBTAG00000034326,ENSBTAG00000046598,ENSBTAG00000047745 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 22,875,000 | 23,025,000 | 306 | 856 | -2.641637934 | IFNAG, KLHL9, ENSBTAG00000034326, ENSBTAG00000045552, ENSBTAG00000046443, ENSBTAG00000046598, ENSBTAG00000046629, ENSBTAG00000047134, ENSBTAG00000047413 |
| 8 | 22,950,000 | 23,100,000 | 307 | 1283 | -3.259379117 | IFNAH, ENSBTAG00000039963, ENSBTAG00000045552, ENSBTAG00000045845, ENSBTAG00000046097, ENSBTAG00000046443, ENSBTAG00000046629, ENSBTAG00000046815, ENSBTAG00000047134, ENSBTAG00000047413 |
| 8 | 23,025,000 | 23,175,000 | 308 | 1130 | -3.441113498 | IFNAH, ENSBTAG00000022787, ENSBTAG00000039827, ENSBTAG00000039963, ENSBTAG00000045845, ENSBTAG00000046097, ENSBTAG00000046683, ENSBTAG00000046815, ENSBTAG00000047982 |
| 8 | 23,100,000 | 23,250,000 | 309 | 1055 | -0.736545501 | IFNB1, IFNB3, ENSBTAG00000022787, ENSBTAG00000033708, ENSBTAG00000039827, ENSBTAG00000045674, ENSBTAG00000046683, ENSBTAG00000047982 |
| 8 | 23,175,000 | 23,325,000 | 310 | 844 | 0.187498634 | IFNB1, IFNB2, IFNB3, IL6, ENSBTAG00000033708, ENSBTAG00000045674, ENSBTAG00000046967 |
| 8 | 23,250,000 | 23,400,000 | 311 | 654 | -0.384543527 | IFNB2, IL6, KIAA1797, PTPLAD2, ENSBTAG00000046967 |
| 8 | 23,325,000 | 23,475,000 | 312 | 903 | -1.082372621 | KIAA1797, PTPLAD2 |
| 8 | 23,400,000 | 23,550,000 | 313 | 856 | -2.150525498 | KIAA1797 |
| 8 | 23,475,000 | 23,625,000 | 314 | 783 | -0.330363286 | KIAA1797 |
| 8 | 23,550,000 | 23,700,000 | 315 | 766 | 0.572792312 | KIAA1797 |
| 8 | 23,625,000 | 23,775,000 | 316 | 628 | 0.731328007 | KIAA1797, MLLT3 |
| 8 | 23,700,000 | 23,850,000 | 317 | 571 | 0.168839088 | MLLT3 |
| 8 | 23,775,000 | 23,925,000 | 318 | 592 | -0.620704969 | MLLT3 |
| 8 | 23,850,000 | 24,000,000 | 319 | 708 | -0.045303573 | MLLT3 |
| 8 | 23,925,000 | 24,075,000 | 320 | 810 | 0.383535368 | MLLT3 |
| 8 | 24,000,000 | 24,150,000 | 321 | 848 | 0.583429921 | MLLT3 |
| 8 | 24,075,000 | 24,225,000 | 322 | 954 | 0.668203259 | |
| 8 | 24,150,000 | 24,300,000 | 323 | 973 | 0.489956879 | |
| 8 | 24,225,000 | 24,375,000 | 324 | 1015 | 0.659850069 | |
| 8 | 24,300,000 | 24,450,000 | 325 | 1062 | 0.814610983 | |
| 8 | 24,375,000 | 24,525,000 | 326 | 1079 | 0.955544739 | SLC24A2 |
| 8 | 24,450,000 | 24,600,000 | 327 | 1243 | 0.413781074 | SLC24A2 |
| 8 | 24,525,000 | 24,675,000 | 328 | 1379 | -0.448823708 | SLC24A2 |
| 8 | 24,600,000 | 24,750,000 | 329 | 1375 | -0.019590973 | SLC24A2 |
| 8 | 24,675,000 | 24,825,000 | 330 | 1328 | 0.581433343 | SLC24A2 |
| 8 | 24,750,000 | 24,900,000 | 331 | 737 | 0.424301705 | ACER2, SLC24A2 |
| 8 | 24,825,000 | 24,975,000 | 332 | 148 | -0.824244892 | ACER2, DENND4C, RPS6 |
| 8 | 24,900,000 | 25,050,000 | 333 | 139 | 0.53092632 | DENND4C, RPS6 |
| 8 | 24,975,000 | 25,125,000 | 334 | 304 | -0.102094008 | DENND4C |
| 8 | 25,050,000 | 25,200,000 | 335 | 395 | -0.167693567 | HAUS6, PLIN2, Rraga |
| 8 | 25,125,000 | 25,275,000 | 336 | 431 | 0.860483133 | FAM154A, HAUS6, PLIN2, Rraga |
| 8 | 25,200,000 | 25,350,000 | 337 | 468 | 0.942360534 | ADAMTSL1, FAM154A |
| 8 | 25,275,000 | 25,425,000 | 338 | 458 | 0.57310569 | ADAMTSL1, FAM154A |
| 8 | 25,350,000 | 25,500,000 | 339 | 510 | -0.281734976 | ADAMTSL1 |
| 8 | 25,425,000 | 25,575,000 | 340 | 531 | -1.257485055 | ADAMTSL1 |
| 8 | 25,500,000 | 25,650,000 | 341 | 537 | -1.063308941 | ADAMTSL1 |
| 8 | 25,575,000 | 25,725,000 | 342 | 503 | -1.276620926 | ADAMTSL1 |
| 8 | 25,650,000 | 25,800,000 | 343 | 532 | -2.763525881 | ADAMTSL1 |
| 8 | 25,725,000 | 25,875,000 | 344 | 544 | -1.531584351 | ADAMTSL1 |
| 8 | 25,800,000 | 25,950,000 | 345 | 490 | 0.111048143 | ADAMTSL1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------|
| 8 | 25,875,000 | 26,025,000 | 346 | 809 | 0.156158917 | |
| 8 | 25,950,000 | 26,100,000 | 347 | 1019 | 0.069325633 | |
| 8 | 26,025,000 | 26,175,000 | 348 | 966 | -0.422060612 | |
| 8 | 26,100,000 | 26,250,000 | 349 | 846 | 0.286152576 | |
| 8 | 26,175,000 | 26,325,000 | 350 | 430 | 1.006009075 | |
| 8 | 26,250,000 | 26,400,000 | 351 | 351 | -2.191804258 | |
| 8 | 26,325,000 | 26,475,000 | 352 | 615 | -1.623616452 | |
| 8 | 26,400,000 | 26,550,000 | 353 | 690 | 0.136333701 | |
| 8 | 26,475,000 | 26,625,000 | 354 | 757 | -1.172097385 | |
| 8 | 26,550,000 | 26,700,000 | 355 | 1027 | -0.476936937 | SH3GL2 |
| 8 | 26,625,000 | 26,775,000 | 356 | 1127 | 0.84369241 | SH3GL2 |
| 8 | 26,700,000 | 26,850,000 | 357 | 1010 | 0.630507356 | SH3GL2 |
| 8 | 26,775,000 | 26,925,000 | 358 | 1113 | -0.606608714 | SH3GL2 |
| 8 | 26,850,000 | 27,000,000 | 359 | 1081 | -0.62182195 | CNTLN,SH3GL2 |
| 8 | 26,925,000 | 27,075,000 | 360 | 571 | 0.426647314 | CNTLN |
| 8 | 27,000,000 | 27,150,000 | 361 | 317 | 0.441446722 | CNTLN |
| 8 | 27,075,000 | 27,225,000 | 362 | 524 | 0.195909641 | CNTLN |
| 8 | 27,150,000 | 27,300,000 | 363 | 722 | 0.150063702 | CNTLN |
| 8 | 27,225,000 | 27,375,000 | 364 | 862 | 0.265333903 | |
| 8 | 27,300,000 | 27,450,000 | 365 | 701 | 0.272616817 | |
| 8 | 27,375,000 | 27,525,000 | 366 | 478 | 0.702989371 | |
| 8 | 27,450,000 | 27,600,000 | 367 | 585 | 0.621508367 | |
| 8 | 27,525,000 | 27,675,000 | 368 | 527 | -0.276663627 | |
| 8 | 27,600,000 | 27,750,000 | 369 | 385 | -0.628929171 | |
| 8 | 27,675,000 | 27,825,000 | 370 | 375 | 0.08170446 | |
| 8 | 27,750,000 | 27,900,000 | 371 | 367 | 0.018403297 | |
| 8 | 27,825,000 | 27,975,000 | 372 | 632 | 0.589568572 | BNC2 |
| 8 | 27,900,000 | 28,050,000 | 373 | 1026 | 1.08063163 | BNC2 |
| 8 | 27,975,000 | 28,125,000 | 374 | 1285 | 1.038351284 | BNC2 |
| 8 | 28,050,000 | 28,200,000 | 375 | 1397 | 0.79145104 | |
| 8 | 28,125,000 | 28,275,000 | 376 | 1185 | 0.743782495 | |
| 8 | 28,200,000 | 28,350,000 | 377 | 807 | 0.596331399 | |
| 8 | 28,275,000 | 28,425,000 | 378 | 571 | 0.212248075 | |
| 8 | 28,350,000 | 28,500,000 | 379 | 764 | -1.640174103 | CCDC171 |
| 8 | 28,425,000 | 28,575,000 | 380 | 837 | -1.704029304 | CCDC171 |
| 8 | 28,500,000 | 28,650,000 | 381 | 640 | -0.011562932 | CCDC171 |
| 8 | 28,575,000 | 28,725,000 | 382 | 695 | 0.796569111 | CCDC171 |
| 8 | 28,650,000 | 28,800,000 | 383 | 846 | -1.061139015 | CCDC171 |
| 8 | 28,725,000 | 28,875,000 | 384 | 704 | -2.255788314 | CCDC171,PSIP1 |
| 8 | 28,800,000 | 28,950,000 | 385 | 446 | -0.869177062 | CCDC171,PSIP1,SNAPC3 |
| 8 | 28,875,000 | 29,025,000 | 386 | 512 | -0.664280622 | PSIP1,SNAPC3 |
| 8 | 28,950,000 | 29,100,000 | 387 | 776 | -0.612435364 | |
| 8 | 29,025,000 | 29,175,000 | 388 | 1084 | -0.54603067 | TTC39B |
| 8 | 29,100,000 | 29,250,000 | 389 | 1401 | 0.323212285 | TTC39B |
| 8 | 29,175,000 | 29,325,000 | 390 | 1138 | 0.809171923 | |
| 8 | 29,250,000 | 29,400,000 | 391 | 745 | 1.186578775 | FREM1 |
| 8 | 29,325,000 | 29,475,000 | 392 | 794 | 1.08753367 | FREM1 |
| 8 | 29,400,000 | 29,550,000 | 393 | 619 | 0.960040937 | CER1,FREM1 |
| 8 | 29,475,000 | 29,625,000 | 394 | 523 | 0.561420771 | CER1,FREM1,ZDHHC21 |
| 8 | 29,550,000 | 29,700,000 | 395 | 777 | -0.118833085 | ZDHHC21 |
| 8 | 29,625,000 | 29,775,000 | 396 | 823 | -0.251130028 | |
| 8 | 29,700,000 | 29,850,000 | 397 | 630 | -0.792232324 | |
| 8 | 29,775,000 | 29,925,000 | 398 | 508 | -1.882008053 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 8 | 29,850,000 | 30,000,000 | 399 | 462 | -1.91180017 | |
| 8 | 29,925,000 | 30,075,000 | 400 | 515 | -1.575381631 | NFIB |
| 8 | 30,000,000 | 30,150,000 | 401 | 542 | -0.884625861 | NFIB |
| 8 | 30,075,000 | 30,225,000 | 402 | 644 | 0.166437291 | NFIB |
| 8 | 30,150,000 | 30,300,000 | 403 | 569 | 0.465159256 | NFIB |
| 8 | 30,225,000 | 30,375,000 | 404 | 417 | 0.202340205 | |
| 8 | 30,300,000 | 30,450,000 | 405 | 518 | -0.202733292 | |
| 8 | 30,375,000 | 30,525,000 | 406 | 624 | -0.451989131 | |
| 8 | 30,450,000 | 30,600,000 | 407 | 800 | 0.532522842 | |
| 8 | 30,525,000 | 30,675,000 | 408 | 779 | 1.129848056 | |
| 8 | 30,600,000 | 30,750,000 | 409 | 828 | 0.775369967 | |
| 8 | 30,675,000 | 30,825,000 | 410 | 866 | -0.024040925 | |
| 8 | 30,750,000 | 30,900,000 | 411 | 631 | -0.934875083 | |
| 8 | 30,825,000 | 30,975,000 | 412 | 425 | -2.052413707 | |
| 8 | 30,900,000 | 31,050,000 | 413 | 247 | -2.971732465 | |
| 8 | 30,975,000 | 31,125,000 | 414 | 390 | -1.590436647 | MPDZ |
| 8 | 31,050,000 | 31,200,000 | 415 | 716 | -1.174874324 | MPDZ |
| 8 | 31,125,000 | 31,275,000 | 416 | 832 | -0.281664821 | MPDZ |
| 8 | 31,200,000 | 31,350,000 | 417 | 908 | 0.74270747 | MPDZ |
| 8 | 31,275,000 | 31,425,000 | 418 | 1142 | 1.234897681 | MPDZ |
| 8 | 31,350,000 | 31,500,000 | 419 | 1211 | 1.232967038 | ENSBTAG00000048272 |
| 8 | 31,425,000 | 31,575,000 | 420 | 1235 | 0.967702437 | ENSBTAG00000048272 |
| 8 | 31,500,000 | 31,650,000 | 421 | 1261 | 1.033172336 | LURAP1L |
| 8 | 31,575,000 | 31,725,000 | 422 | 1168 | 1.169980545 | LURAP1L, TYRP1 |
| 8 | 31,650,000 | 31,800,000 | 423 | 1146 | 1.097438523 | TYRP1 |
| 8 | 31,725,000 | 31,875,000 | 424 | 1213 | 0.808175355 | TYRP1 |
| 8 | 31,800,000 | 31,950,000 | 425 | 1629 | 1.043298799 | |
| 8 | 31,875,000 | 32,025,000 | 426 | 1768 | 1.292991592 | |
| 8 | 31,950,000 | 32,100,000 | 427 | 1129 | 1.094273764 | |
| 8 | 32,025,000 | 32,175,000 | 428 | 938 | 0.613915675 | |
| 8 | 32,100,000 | 32,250,000 | 429 | 1234 | 0.612305168 | |
| 8 | 32,175,000 | 32,325,000 | 430 | 1289 | 0.672260452 | |
| 8 | 32,250,000 | 32,400,000 | 431 | 1158 | 0.761051928 | |
| 8 | 32,325,000 | 32,475,000 | 432 | 1106 | 0.764782014 | |
| 8 | 32,400,000 | 32,550,000 | 433 | 1478 | 1.026049451 | |
| 8 | 32,475,000 | 32,625,000 | 434 | 1636 | 1.160648373 | |
| 8 | 32,550,000 | 32,700,000 | 435 | 1403 | 0.963645755 | |
| 8 | 32,625,000 | 32,775,000 | 436 | 1350 | 0.704279657 | |
| 8 | 32,700,000 | 32,850,000 | 437 | 1548 | 0.886479588 | |
| 8 | 32,775,000 | 32,925,000 | 438 | 1836 | 0.861048233 | |
| 8 | 32,850,000 | 33,000,000 | 439 | 2211 | -0.247840173 | |
| 8 | 32,925,000 | 33,075,000 | 440 | 1870 | -0.936471818 | |
| 8 | 33,000,000 | 33,150,000 | 441 | 1230 | 0.256045926 | |
| 8 | 33,075,000 | 33,225,000 | 442 | 1321 | -6.02337965 | |
| 8 | 33,150,000 | 33,300,000 | 443 | 1395 | -5.664376143 | |
| 8 | 33,225,000 | 33,375,000 | 444 | 1478 | -2.294957671 | |
| 8 | 33,300,000 | 33,450,000 | 445 | 1546 | -1.59860923 | |
| 8 | 33,375,000 | 33,525,000 | 446 | 1375 | 0.122005661 | |
| 8 | 33,450,000 | 33,600,000 | 447 | 1118 | 0.366214447 | |
| 8 | 33,525,000 | 33,675,000 | 448 | 1057 | 1.043541582 | |
| 8 | 33,600,000 | 33,750,000 | 449 | 1496 | 0.889517198 | |
| 8 | 33,675,000 | 33,825,000 | 450 | 1825 | 0.440947616 | |
| 8 | 33,750,000 | 33,900,000 | 451 | 1720 | 0.38868454 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 8 | 33,825,000 | 33,975,000 | 452 | 1550 | 0.509770177 | |
| 8 | 33,900,000 | 34,050,000 | 453 | 1473 | 0.616247573 | |
| 8 | 33,975,000 | 34,125,000 | 454 | 1294 | 0.7484518 | |
| 8 | 34,050,000 | 34,200,000 | 455 | 888 | 0.537905889 | |
| 8 | 34,125,000 | 34,275,000 | 456 | 570 | 0.138976714 | |
| 8 | 34,200,000 | 34,350,000 | 457 | 429 | -0.007975946 | |
| 8 | 34,275,000 | 34,425,000 | 458 | 435 | 0.150170081 | |
| 8 | 34,350,000 | 34,500,000 | 459 | 515 | -0.389764778 | |
| 8 | 34,425,000 | 34,575,000 | 460 | 839 | 0.383228849 | |
| 8 | 34,500,000 | 34,650,000 | 461 | 1048 | 0.92167489 | |
| 8 | 34,575,000 | 34,725,000 | 462 | 970 | 1.312073624 | |
| 8 | 34,650,000 | 34,800,000 | 463 | 865 | 1.38668129 | |
| 8 | 34,725,000 | 34,875,000 | 464 | 875 | 0.266577833 | |
| 8 | 34,800,000 | 34,950,000 | 465 | 1380 | -0.790190428 | |
| 8 | 34,875,000 | 35,025,000 | 466 | 1163 | -0.949297519 | |
| 8 | 34,950,000 | 35,100,000 | 467 | 826 | 0.594582146 | |
| 8 | 35,025,000 | 35,175,000 | 468 | 937 | 0.865252699 | |
| 8 | 35,100,000 | 35,250,000 | 469 | 623 | 0.585444132 | |
| 8 | 35,175,000 | 35,325,000 | 470 | 930 | -1.340455822 | |
| 8 | 35,250,000 | 35,400,000 | 471 | 1185 | -1.309774418 | |
| 8 | 35,325,000 | 35,475,000 | 472 | 913 | -0.759628585 | |
| 8 | 35,400,000 | 35,550,000 | 473 | 823 | -0.409813916 | |
| 8 | 35,475,000 | 35,625,000 | 474 | 890 | -0.100220225 | |
| 8 | 35,550,000 | 35,700,000 | 475 | 1066 | -0.030795377 | |
| 8 | 35,625,000 | 35,775,000 | 476 | 951 | 0.106481762 | |
| 8 | 35,700,000 | 35,850,000 | 477 | 783 | 0.67828594 | |
| 8 | 35,775,000 | 35,925,000 | 478 | 1063 | 1.014634118 | |
| 8 | 35,850,000 | 36,000,000 | 479 | 1589 | 0.995124142 | |
| 8 | 35,925,000 | 36,075,000 | 480 | 1544 | 0.91623094 | |
| 8 | 36,000,000 | 36,150,000 | 481 | 633 | 1.00865009 | |
| 8 | 36,075,000 | 36,225,000 | 482 | 570 | 1.002037221 | |
| 8 | 36,150,000 | 36,300,000 | 483 | 946 | 1.086515787 | |
| 8 | 36,225,000 | 36,375,000 | 484 | 921 | 0.683932643 | |
| 8 | 36,300,000 | 36,450,000 | 485 | 1294 | 0.427726331 | |
| 8 | 36,375,000 | 36,525,000 | 486 | 1193 | 0.634153706 | |
| 8 | 36,450,000 | 36,600,000 | 487 | 849 | 0.74600237 | PTPRD |
| 8 | 36,525,000 | 36,675,000 | 488 | 775 | 0.247731492 | PTPRD |
| 8 | 36,600,000 | 36,750,000 | 489 | 760 | 0.039936712 | PTPRD |
| 8 | 36,675,000 | 36,825,000 | 490 | 695 | -0.564748168 | PTPRD |
| 8 | 36,750,000 | 36,900,000 | 491 | 659 | -0.917315673 | PTPRD |
| 8 | 36,825,000 | 36,975,000 | 492 | 624 | -0.094238928 | |
| 8 | 36,900,000 | 37,050,000 | 493 | 853 | -0.291566076 | |
| 8 | 36,975,000 | 37,125,000 | 494 | 1072 | -0.139897214 | |
| 8 | 37,050,000 | 37,200,000 | 495 | 959 | 0.421421181 | |
| 8 | 37,125,000 | 37,275,000 | 496 | 815 | 0.615862658 | |
| 8 | 37,200,000 | 37,350,000 | 497 | 742 | 0.580998642 | MGC127919 |
| 8 | 37,275,000 | 37,425,000 | 498 | 864 | 0.748539139 | MGC127919 |
| 8 | 37,350,000 | 37,500,000 | 499 | 1008 | 1.268677522 | |
| 8 | 37,425,000 | 37,575,000 | 500 | 1181 | 1.268771133 | |
| 8 | 37,500,000 | 37,650,000 | 501 | 1249 | 0.971228207 | |
| 8 | 37,575,000 | 37,725,000 | 502 | 1304 | 0.79097652 | ENSBTAG00000038698 |
| 8 | 37,650,000 | 37,800,000 | 503 | 941 | 0.686249324 | ENSBTAG00000038698 |
| 8 | 37,725,000 | 37,875,000 | 504 | 641 | 0.60779899 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 37,800,000 | 37,950,000 | 505 | 621 | 1.012997977 | |
| 8 | 37,875,000 | 38,025,000 | 506 | 412 | 1.504011229 | ENSBTAG00000043987 |
| 8 | 37,950,000 | 38,100,000 | 507 | 341 | 1.448451815 | ENSBTAG00000043987 |
| 8 | 38,025,000 | 38,175,000 | 508 | 581 | 1.352528974 | ENSBTAG00000043987 |
| 8 | 38,100,000 | 38,250,000 | 509 | 685 | 0.869927415 | ENSBTAG00000043987 |
| 8 | 38,175,000 | 38,325,000 | 510 | 507 | -0.006819178 | ENSBTAG00000043987 |
| 8 | 38,250,000 | 38,400,000 | 511 | 395 | 0.366002457 | |
| 8 | 38,325,000 | 38,475,000 | 512 | 270 | 1.347057441 | GLDC |
| 8 | 38,400,000 | 38,550,000 | 513 | 269 | 0.701925599 | GLDC |
| 8 | 38,475,000 | 38,625,000 | 514 | 401 | -0.089424064 | GLDC,UHRF2 |
| 8 | 38,550,000 | 38,700,000 | 515 | 422 | 0.316465251 | GLDC,TPD52L3,UHRF2 |
| 8 | 38,625,000 | 38,775,000 | 516 | 430 | 1.052696241 | IL33,TPD52L3,UHRF2 |
| 8 | 38,700,000 | 38,850,000 | 517 | 484 | 0.555567173 | IL33 |
| 8 | 38,775,000 | 38,925,000 | 518 | 515 | -0.107320358 | IL33,RANBP6 |
| 8 | 38,850,000 | 39,000,000 | 519 | 525 | 0.50228873 | RANBP6 |
| 8 | 38,925,000 | 39,075,000 | 520 | 508 | 1.105448967 | KIAA2026,MLANA,RANBP6 |
| 8 | 39,000,000 | 39,150,000 | 521 | 403 | 1.012721635 | ERMP1,KIAA2026,MLANA |
| 8 | 39,075,000 | 39,225,000 | 522 | 219 | 0.541859544 | ERMP1,RIC1 |
| 8 | 39,150,000 | 39,300,000 | 523 | 225 | 0.34133059 | ERMP1,RIC1 |
| 8 | 39,225,000 | 39,375,000 | 524 | 338 | 0.682190857 | RIC1 |
| 8 | 39,300,000 | 39,450,000 | 525 | 441 | 0.800861431 | PDCD1LG2,RIC1 |
| 8 | 39,375,000 | 39,525,000 | 526 | 481 | 0.849450287 | PD-L1,PDCD1LG2 |
| 8 | 39,450,000 | 39,600,000 | 527 | 537 | 1.021429164 | C8H9ORF46,PD-L1,PDCD1LG2 |
| 8 | 39,525,000 | 39,675,000 | 528 | 534 | 0.977533374 | C8H9ORF46,INSL6,JAK2 |
| 8 | 39,600,000 | 39,750,000 | 529 | 537 | 0.945390529 | INSL6,JAK2 |
| 8 | 39,675,000 | 39,825,000 | 530 | 727 | 1.06528702 | JAK2 |
| 8 | 39,750,000 | 39,900,000 | 531 | 967 | 1.191931477 | |
| 8 | 39,825,000 | 39,975,000 | 532 | 1127 | 1.297226606 | RCL1 |
| 8 | 39,900,000 | 40,050,000 | 533 | 1054 | 1.188783333 | AK3,RCL1,ENSBTAG00000046486 |
| 8 | 39,975,000 | 40,125,000 | 534 | 796 | 1.127227849 | AK3,CDC37L1,PPAPDC2,RCL1,SPATA6L,ENSBTAG00000046486 |
| 8 | 40,050,000 | 40,200,000 | 535 | 922 | 1.403656347 | AK3,CDC37L1,PPAPDC2,SLC1A1,SPATA6L,ENSBTAG00000046486 |
| 8 | 40,125,000 | 40,275,000 | 536 | 981 | 0.951457148 | SLC1A1,SPATA6L,ENSBTAG00000046687 |
| 8 | 40,200,000 | 40,350,000 | 537 | 611 | 0.300534656 | SLC1A1,ENSBTAG00000046687 |
| 8 | 40,275,000 | 40,425,000 | 538 | 497 | -0.803323866 | |
| 8 | 40,350,000 | 40,500,000 | 539 | 579 | -5.206405352 | |
| 8 | 40,425,000 | 40,575,000 | 540 | 844 | -4.077188824 | |
| 8 | 40,500,000 | 40,650,000 | 541 | 1033 | -1.253575204 | |
| 8 | 40,575,000 | 40,725,000 | 542 | 844 | 0.050642034 | |
| 8 | 40,650,000 | 40,800,000 | 543 | 761 | -0.199313737 | |
| 8 | 40,725,000 | 40,875,000 | 544 | 574 | -1.387015691 | GLIS3 |
| 8 | 40,800,000 | 40,950,000 | 545 | 353 | -1.296992799 | GLIS3 |
| 8 | 40,875,000 | 41,025,000 | 546 | 626 | 0.807088388 | GLIS3 |
| 8 | 40,950,000 | 41,100,000 | 547 | 909 | 0.568276259 | GLIS3 |
| 8 | 41,025,000 | 41,175,000 | 548 | 857 | 0.165875605 | |
| 8 | 41,100,000 | 41,250,000 | 549 | 728 | -0.073909848 | |
| 8 | 41,175,000 | 41,325,000 | 550 | 848 | -1.233794315 | |
| 8 | 41,250,000 | 41,400,000 | 551 | 739 | -1.237866062 | |
| 8 | 41,325,000 | 41,475,000 | 552 | 445 | 0.579240336 | RFX3 |
| 8 | 41,400,000 | 41,550,000 | 553 | 406 | 0.816557763 | RFX3 |
| 8 | 41,475,000 | 41,625,000 | 554 | 617 | 0.670872532 | RFX3 |
| 8 | 41,550,000 | 41,700,000 | 555 | 747 | 0.671757288 | RFX3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 41,625,000 | 41,775,000 | 556 | 945 | 0.771885226 | |
| 8 | 41,700,000 | 41,850,000 | 557 | 1163 | 0.65888519 | |
| 8 | 41,775,000 | 41,925,000 | 558 | 1173 | 0.526025198 | |
| 8 | 41,850,000 | 42,000,000 | 559 | 1299 | 0.984355376 | KIAA0020 |
| 8 | 41,925,000 | 42,075,000 | 560 | 1230 | 0.973663537 | KCNV2,KIAA0020 |
| 8 | 42,000,000 | 42,150,000 | 561 | 1130 | 0.370507303 | KCNV2,VLDLR |
| 8 | 42,075,000 | 42,225,000 | 562 | 1156 | 0.426775056 | VLDLR |
| 8 | 42,150,000 | 42,300,000 | 563 | 1175 | 0.53188496 | |
| 8 | 42,225,000 | 42,375,000 | 564 | 1132 | 0.390054369 | |
| 8 | 42,300,000 | 42,450,000 | 565 | 1020 | 0.307301813 | |
| 8 | 42,375,000 | 42,525,000 | 566 | 1341 | 0.676331762 | |
| 8 | 42,450,000 | 42,600,000 | 567 | 1654 | 0.700013989 | |
| 8 | 42,525,000 | 42,675,000 | 568 | 1167 | 0.480109683 | SMARCA2 |
| 8 | 42,600,000 | 42,750,000 | 569 | 728 | 0.408467272 | SMARCA2 |
| 8 | 42,675,000 | 42,825,000 | 570 | 753 | -1.385060844 | SMARCA2 |
| 8 | 42,750,000 | 42,900,000 | 571 | 799 | -1.740468499 | SMARCA2 |
| 8 | 42,825,000 | 42,975,000 | 572 | 1011 | 0.25297286 | SMARCA2 |
| 8 | 42,900,000 | 43,050,000 | 573 | 1331 | 0.465894421 | |
| 8 | 42,975,000 | 43,125,000 | 574 | 1377 | -0.456981824 | |
| 8 | 43,050,000 | 43,200,000 | 575 | 1344 | -0.654488921 | |
| 8 | 43,125,000 | 43,275,000 | 576 | 1516 | -1.070047324 | |
| 8 | 43,200,000 | 43,350,000 | 577 | 1419 | -1.585589562 | |
| 8 | 43,275,000 | 43,425,000 | 578 | 849 | -1.0901822 | |
| 8 | 43,350,000 | 43,500,000 | 579 | 601 | -0.42671956 | |
| 8 | 43,425,000 | 43,575,000 | 580 | 624 | -0.523434227 | |
| 8 | 43,500,000 | 43,650,000 | 581 | 737 | 0.459848258 | |
| 8 | 43,575,000 | 43,725,000 | 582 | 1009 | 0.876030393 | |
| 8 | 43,650,000 | 43,800,000 | 583 | 851 | 1.074708761 | DMRT2 |
| 8 | 43,725,000 | 43,875,000 | 584 | 596 | 0.342231064 | DMRT2,DMRT3 |
| 8 | 43,800,000 | 43,950,000 | 585 | 562 | -0.378411733 | DMRT1,DMRT3 |
| 8 | 43,875,000 | 44,025,000 | 586 | 562 | 0.184932545 | DMRT1 |
| 8 | 43,950,000 | 44,100,000 | 587 | 623 | -0.230683071 | DMRT1,KANK1 |
| 8 | 44,025,000 | 44,175,000 | 588 | 873 | 0.002533802 | KANK1 |
| 8 | 44,100,000 | 44,250,000 | 589 | 1154 | 0.417215564 | |
| 8 | 44,175,000 | 44,325,000 | 590 | 1153 | 0.340277164 | DOCK8 |
| 8 | 44,250,000 | 44,400,000 | 591 | 1127 | -0.07354128 | DOCK8 |
| 8 | 44,325,000 | 44,475,000 | 592 | 953 | -0.189325654 | DOCK8 |
| 8 | 44,400,000 | 44,550,000 | 593 | 600 | -0.213421422 | DOCK8 |
| 8 | 44,475,000 | 44,625,000 | 594 | 354 | 0.092088341 | DOCK8,ENSBTAG00000000269 |
| 8 | 44,550,000 | 44,700,000 | 595 | 263 | 0.841742953 | PGM5,ENSBTAG00000000269,ENSBTAG00000033122 |
| 8 | 44,625,000 | 44,775,000 | 596 | 323 | 0.907695 | PGM5,ENSBTAG00000033122 |
| 8 | 44,700,000 | 44,850,000 | 597 | 397 | 1.040445231 | PGM5 |
| 8 | 44,775,000 | 44,925,000 | 598 | 385 | 0.622046189 | PGM5,TMEM252 |
| 8 | 44,850,000 | 45,000,000 | 599 | 507 | -1.599406305 | PGM5,TMEM252 |
| 8 | 44,925,000 | 45,075,000 | 600 | 702 | -1.736218478 | |
| 8 | 45,000,000 | 45,150,000 | 601 | 603 | -0.393316021 | |
| 8 | 45,075,000 | 45,225,000 | 602 | 486 | 0.504865922 | FAM122A,PIP5K1B |
| 8 | 45,150,000 | 45,300,000 | 603 | 460 | 0.659367764 | FAM122A,PIP5K1B |
| 8 | 45,225,000 | 45,375,000 | 604 | 415 | 0.543299329 | PIP5K1B |
| 8 | 45,300,000 | 45,450,000 | 605 | 568 | 0.353024602 | PIP5K1B |
| 8 | 45,375,000 | 45,525,000 | 606 | 775 | -0.462705625 | FXN |
| 8 | 45,450,000 | 45,600,000 | 607 | 1073 | -0.484213515 | FXN,ZO2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|----------------------------|
| 8 | 45,525,000 | 45,675,000 | 608 | 1235 | -0.102448773 | FXN,ZO2 |
| 8 | 45,600,000 | 45,750,000 | 609 | 1291 | 0.466690437 | ZO2 |
| 8 | 45,675,000 | 45,825,000 | 610 | 1196 | 0.713909846 | FAM189A2,ZO2 |
| 8 | 45,750,000 | 45,900,000 | 611 | 887 | 0.255251565 | APBA1,FAM189A2 |
| 8 | 45,825,000 | 45,975,000 | 612 | 668 | -0.640320716 | APBA1 |
| 8 | 45,900,000 | 46,050,000 | 613 | 678 | 0.144745261 | APBA1 |
| 8 | 45,975,000 | 46,125,000 | 614 | 652 | 0.601944478 | |
| 8 | 46,050,000 | 46,200,000 | 615 | 499 | -0.026950412 | PTAR1 |
| 8 | 46,125,000 | 46,275,000 | 616 | 612 | -2.094152556 | C8H9orf135,PTAR1 |
| 8 | 46,200,000 | 46,350,000 | 617 | 878 | -2.896515529 | C8H9orf135 |
| 8 | 46,275,000 | 46,425,000 | 618 | 828 | -2.800821434 | C8H9orf135 |
| 8 | 46,350,000 | 46,500,000 | 619 | 769 | -0.515505089 | |
| 8 | 46,425,000 | 46,575,000 | 620 | 725 | -0.204266717 | |
| 8 | 46,500,000 | 46,650,000 | 621 | 570 | 0.22415353 | MAMDC2 |
| 8 | 46,575,000 | 46,725,000 | 622 | 540 | 1.013640781 | MAMDC2,SMC5 |
| 8 | 46,650,000 | 46,800,000 | 623 | 470 | 0.564593244 | MAMDC2,SMC5 |
| 8 | 46,725,000 | 46,875,000 | 624 | 660 | -0.378863118 | SMC5 |
| 8 | 46,800,000 | 46,950,000 | 625 | 575 | -0.477643396 | KLF9,SMC5 |
| 8 | 46,875,000 | 47,025,000 | 626 | 338 | 0.554971105 | KLF9,TRPM3 |
| 8 | 46,950,000 | 47,100,000 | 627 | 328 | 0.615717283 | TRPM3 |
| 8 | 47,025,000 | 47,175,000 | 628 | 476 | -2.635263175 | TRPM3 |
| 8 | 47,100,000 | 47,250,000 | 629 | 727 | -1.199536312 | TRPM3 |
| 8 | 47,175,000 | 47,325,000 | 630 | 730 | 0.079766862 | TRPM3 |
| 8 | 47,250,000 | 47,400,000 | 631 | 501 | -0.025899804 | TRPM3 |
| 8 | 47,325,000 | 47,475,000 | 632 | 321 | 0.161290005 | |
| 8 | 47,400,000 | 47,550,000 | 633 | 352 | -1.247796884 | |
| 8 | 47,475,000 | 47,625,000 | 634 | 580 | -1.366745036 | |
| 8 | 47,550,000 | 47,700,000 | 635 | 771 | -0.83940382 | |
| 8 | 47,625,000 | 47,775,000 | 636 | 842 | 0.254650343 | |
| 8 | 47,700,000 | 47,850,000 | 637 | 1490 | 0.213031481 | |
| 8 | 47,775,000 | 47,925,000 | 638 | 1828 | -0.724376677 | |
| 8 | 47,850,000 | 48,000,000 | 639 | 1371 | -0.193252815 | |
| 8 | 47,925,000 | 48,075,000 | 640 | 1006 | 1.432962832 | |
| 8 | 48,000,000 | 48,150,000 | 641 | 685 | 1.474896598 | |
| 8 | 48,075,000 | 48,225,000 | 642 | 451 | 0.951417125 | TMEM2 |
| 8 | 48,150,000 | 48,300,000 | 643 | 795 | 0.822693643 | TMEM2 |
| 8 | 48,225,000 | 48,375,000 | 644 | 1171 | 0.63088474 | TMEM2 |
| 8 | 48,300,000 | 48,450,000 | 645 | 989 | 0.291177088 | FAM108B1,TMEM2 |
| 8 | 48,375,000 | 48,525,000 | 646 | 646 | 0.308932749 | C8H9ORF85,FAM108B1 |
| 8 | 48,450,000 | 48,600,000 | 647 | 575 | 0.192974055 | C8H9ORF85,FAM108B1 |
| 8 | 48,525,000 | 48,675,000 | 648 | 787 | 0.795122087 | GDA |
| 8 | 48,600,000 | 48,750,000 | 649 | 869 | 0.775220985 | GDA |
| 8 | 48,675,000 | 48,825,000 | 650 | 884 | 0.956075099 | GDA |
| 8 | 48,750,000 | 48,900,000 | 651 | 643 | 1.074299845 | GDA,ZFAND5 |
| 8 | 48,825,000 | 48,975,000 | 652 | 262 | 0.473694564 | ZFAND5 |
| 8 | 48,900,000 | 49,050,000 | 653 | 331 | 0.395636271 | ZFAND5 |
| 8 | 48,975,000 | 49,125,000 | 654 | 528 | -0.392510675 | |
| 8 | 49,050,000 | 49,200,000 | 655 | 636 | -2.642793313 | |
| 8 | 49,125,000 | 49,275,000 | 656 | 805 | -2.060101487 | TMC1 |
| 8 | 49,200,000 | 49,350,000 | 657 | 774 | -0.444298898 | TMC1 |
| 8 | 49,275,000 | 49,425,000 | 658 | 853 | -1.007236966 | ALDH1A1,TMC1 |
| 8 | 49,350,000 | 49,500,000 | 659 | 1029 | -0.882935475 | ALDH1A1,ENSBTAG00000047442 |
| 8 | 49,425,000 | 49,575,000 | 660 | 1372 | 0.292673064 | ENSBTAG00000047442 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------|
| 8 | 49,500,000 | 49,650,000 | 661 | 1430 | 0.2888736 | ANXA1,ENSBTAG00000047442 |
| 8 | 49,575,000 | 49,725,000 | 662 | 1276 | 0.627948831 | ANXA1 |
| 8 | 49,650,000 | 49,800,000 | 663 | 1208 | 0.528357221 | |
| 8 | 49,725,000 | 49,875,000 | 664 | 1197 | 0.207295736 | |
| 8 | 49,800,000 | 49,950,000 | 665 | 1071 | 0.448897167 | |
| 8 | 49,875,000 | 50,025,000 | 666 | 728 | -0.959718731 | |
| 8 | 49,950,000 | 50,100,000 | 667 | 707 | -1.047568808 | |
| 8 | 50,025,000 | 50,175,000 | 668 | 790 | -0.035868349 | |
| 8 | 50,100,000 | 50,250,000 | 669 | 860 | 0.136982192 | |
| 8 | 50,175,000 | 50,325,000 | 670 | 916 | -0.676122048 | |
| 8 | 50,250,000 | 50,400,000 | 671 | 1241 | 0.09054782 | |
| 8 | 50,325,000 | 50,475,000 | 672 | 1581 | 0.322008728 | |
| 8 | 50,400,000 | 50,550,000 | 673 | 1509 | -0.074642212 | |
| 8 | 50,475,000 | 50,625,000 | 674 | 1259 | 0.287574338 | |
| 8 | 50,550,000 | 50,700,000 | 675 | 1353 | -2.074800787 | |
| 8 | 50,625,000 | 50,775,000 | 676 | 1501 | -2.70824625 | |
| 8 | 50,700,000 | 50,850,000 | 677 | 1545 | -2.551882834 | |
| 8 | 50,775,000 | 50,925,000 | 678 | 1389 | -1.314296615 | RORB |
| 8 | 50,850,000 | 51,000,000 | 679 | 1005 | 0.099185577 | RORB |
| 8 | 50,925,000 | 51,075,000 | 680 | 897 | -0.890728054 | RORB |
| 8 | 51,000,000 | 51,150,000 | 681 | 1109 | -1.798627065 | RORB,TRPM6 |
| 8 | 51,075,000 | 51,225,000 | 682 | 1180 | -2.569633118 | RORB,TRPM6 |
| 8 | 51,150,000 | 51,300,000 | 683 | 1017 | -1.646148541 | TRPM6 |
| 8 | 51,225,000 | 51,375,000 | 684 | 793 | -0.113759767 | C9orf40,C9orf41 |
| 8 | 51,300,000 | 51,450,000 | 685 | 731 | 0.225016298 | C9orf40,C9orf41,NMRK1,OSTF1 |
| 8 | 51,375,000 | 51,525,000 | 686 | 802 | 0.920350545 | C9orf41,NMRK1,OSTF1 |
| 8 | 51,450,000 | 51,600,000 | 687 | 871 | 0.923051097 | OSTF1 |
| 8 | 51,525,000 | 51,675,000 | 688 | 1093 | 0.662324574 | |
| 8 | 51,600,000 | 51,750,000 | 689 | 1096 | 0.231844402 | |
| 8 | 51,675,000 | 51,825,000 | 690 | 751 | -0.163946863 | |
| 8 | 51,750,000 | 51,900,000 | 691 | 865 | 0.119912846 | |
| 8 | 51,825,000 | 51,975,000 | 692 | 1146 | -0.113313651 | |
| 8 | 51,900,000 | 52,050,000 | 693 | 818 | -0.091342273 | |
| 8 | 51,975,000 | 52,125,000 | 694 | 556 | 0.871898506 | |
| 8 | 52,050,000 | 52,200,000 | 695 | 705 | 0.954362577 | |
| 8 | 52,125,000 | 52,275,000 | 696 | 882 | 0.716529006 | |
| 8 | 52,200,000 | 52,350,000 | 697 | 871 | 0.303048177 | PCSK5 |
| 8 | 52,275,000 | 52,425,000 | 698 | 734 | -0.007588595 | PCSK5 |
| 8 | 52,350,000 | 52,500,000 | 699 | 972 | 0.194467756 | PCSK5 |
| 8 | 52,425,000 | 52,575,000 | 700 | 1140 | 0.316292399 | PCSK5 |
| 8 | 52,500,000 | 52,650,000 | 701 | 841 | 0.588514484 | PCSK5 |
| 8 | 52,575,000 | 52,725,000 | 702 | 757 | 0.848901168 | PCSK5 |
| 8 | 52,650,000 | 52,800,000 | 703 | 784 | 0.936996295 | PCSK5,RFK |
| 8 | 52,725,000 | 52,875,000 | 704 | 983 | 0.700478985 | GCNT1,RFK |
| 8 | 52,800,000 | 52,950,000 | 705 | 1105 | 0.573124829 | GCNT1 |
| 8 | 52,875,000 | 53,025,000 | 706 | 1214 | 0.829912383 | PRUNE2 |
| 8 | 52,950,000 | 53,100,000 | 707 | 1514 | 1.131999074 | PRUNE2 |
| 8 | 53,025,000 | 53,175,000 | 708 | 1482 | 0.705978836 | PRUNE2 |
| 8 | 53,100,000 | 53,250,000 | 709 | 1354 | 0.186203531 | PRUNE2 |
| 8 | 53,175,000 | 53,325,000 | 710 | 1130 | 0.45844511 | PRUNE2 |
| 8 | 53,250,000 | 53,400,000 | 711 | 924 | 0.303005133 | FOXB2 |
| 8 | 53,325,000 | 53,475,000 | 712 | 1061 | 0.025422934 | FOXB2 |
| 8 | 53,400,000 | 53,550,000 | 713 | 1373 | -1.152379463 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 8 | 53,475,000 | 53,625,000 | 714 | 1398 | -1.402693946 | ENSBTAG00000047788 |
| 8 | 53,550,000 | 53,700,000 | 715 | 1016 | -0.475888167 | GNA14,ENSBTAG00000047788 |
| 8 | 53,625,000 | 53,775,000 | 716 | 789 | -0.258258199 | GNA14,ENSBTAG00000017734,ENSBTAG00000047788 |
| 8 | 53,700,000 | 53,850,000 | 717 | 733 | -1.059871002 | GNA14,ENSBTAG00000017734 |
| 8 | 53,775,000 | 53,925,000 | 718 | 568 | -1.581700508 | GNA14,ENSBTAG00000017734 |
| 8 | 53,850,000 | 54,000,000 | 719 | 534 | -1.056024352 | GNA14,GNAQ |
| 8 | 53,925,000 | 54,075,000 | 720 | 899 | 0.21219519 | GNA14,GNAQ |
| 8 | 54,000,000 | 54,150,000 | 721 | 998 | 0.57911331 | GNAQ |
| 8 | 54,075,000 | 54,225,000 | 722 | 1003 | 0.428534406 | GNAQ |
| 8 | 54,150,000 | 54,300,000 | 723 | 1131 | 0.160042394 | GNAQ |
| 8 | 54,225,000 | 54,375,000 | 724 | 1028 | -0.190604875 | GNAQ |
| 8 | 54,300,000 | 54,450,000 | 725 | 1000 | -0.153140767 | CEP78 |
| 8 | 54,375,000 | 54,525,000 | 726 | 1006 | -3.651784418 | CEP78,PSAT1 |
| 8 | 54,450,000 | 54,600,000 | 727 | 972 | -5.810524291 | CEP78,PSAT1 |
| 8 | 54,525,000 | 54,675,000 | 728 | 1095 | -3.048150411 | PSAT1 |
| 8 | 54,600,000 | 54,750,000 | 729 | 1141 | -0.856171615 | |
| 8 | 54,675,000 | 54,825,000 | 730 | 1110 | -1.253280508 | |
| 8 | 54,750,000 | 54,900,000 | 731 | 1127 | -1.443050845 | |
| 8 | 54,825,000 | 54,975,000 | 732 | 1167 | -0.493205186 | RAN |
| 8 | 54,900,000 | 55,050,000 | 733 | 1437 | -0.290617386 | RAN |
| 8 | 54,975,000 | 55,125,000 | 734 | 1570 | 0.392052985 | |
| 8 | 55,050,000 | 55,200,000 | 735 | 1433 | 0.181630957 | |
| 8 | 55,125,000 | 55,275,000 | 736 | 1343 | -0.707342989 | |
| 8 | 55,200,000 | 55,350,000 | 737 | 1351 | -0.570364007 | |
| 8 | 55,275,000 | 55,425,000 | 738 | 1143 | -0.021561636 | |
| 8 | 55,350,000 | 55,500,000 | 739 | 1021 | 0.731282677 | |
| 8 | 55,425,000 | 55,575,000 | 740 | 1022 | 0.131144027 | |
| 8 | 55,500,000 | 55,650,000 | 741 | 934 | -1.840168843 | |
| 8 | 55,575,000 | 55,725,000 | 742 | 695 | -2.128532923 | |
| 8 | 55,650,000 | 55,800,000 | 743 | 426 | -1.550408607 | |
| 8 | 55,725,000 | 55,875,000 | 744 | 481 | -1.123623665 | TLE4 |
| 8 | 55,800,000 | 55,950,000 | 745 | 614 | -1.46289058 | TLE4 |
| 8 | 55,875,000 | 56,025,000 | 746 | 528 | -1.27229278 | TLE4 |
| 8 | 55,950,000 | 56,100,000 | 747 | 418 | -0.639489107 | TLE4 |
| 8 | 56,025,000 | 56,175,000 | 748 | 524 | -1.046036768 | |
| 8 | 56,100,000 | 56,250,000 | 749 | 456 | -0.376519192 | |
| 8 | 56,175,000 | 56,325,000 | 750 | 482 | -1.064162501 | |
| 8 | 56,250,000 | 56,400,000 | 751 | 475 | -0.44401269 | |
| 8 | 56,325,000 | 56,475,000 | 752 | 268 | 0.458737163 | |
| 8 | 56,400,000 | 56,550,000 | 753 | 467 | -0.456155409 | ENSBTAG00000046462 |
| 8 | 56,475,000 | 56,625,000 | 754 | 571 | 0.386665122 | ENSBTAG00000046462 |
| 8 | 56,550,000 | 56,700,000 | 755 | 584 | 0.185949204 | ENSBTAG00000046462 |
| 8 | 56,625,000 | 56,775,000 | 756 | 459 | -0.749456968 | |
| 8 | 56,700,000 | 56,850,000 | 757 | 99 | -0.495825389 | |
| 8 | 56,775,000 | 56,925,000 | 758 | 515 | -0.142188345 | |
| 8 | 56,850,000 | 57,000,000 | 759 | 958 | -0.125578891 | |
| 8 | 56,925,000 | 57,075,000 | 760 | 922 | 0.117036436 | |
| 8 | 57,000,000 | 57,150,000 | 761 | 1292 | 1.058996622 | |
| 8 | 57,075,000 | 57,225,000 | 762 | 1371 | 0.974509121 | |
| 8 | 57,150,000 | 57,300,000 | 763 | 761 | -0.178767203 | |
| 8 | 57,225,000 | 57,375,000 | 764 | 402 | -1.670193978 | |
| 8 | 57,300,000 | 57,450,000 | 765 | 761 | -1.345751627 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 57,375,000 | 57,525,000 | 766 | 1182 | -0.079893793 | |
| 8 | 57,450,000 | 57,600,000 | 767 | 962 | 0.307857125 | |
| 8 | 57,525,000 | 57,675,000 | 768 | 629 | 0.884137783 | |
| 8 | 57,600,000 | 57,750,000 | 769 | 773 | -0.245630507 | |
| 8 | 57,675,000 | 57,825,000 | 770 | 739 | -1.269798666 | |
| 8 | 57,750,000 | 57,900,000 | 771 | 746 | -0.055122891 | |
| 8 | 57,825,000 | 57,975,000 | 772 | 813 | -0.613278753 | TLE1 |
| 8 | 57,900,000 | 58,050,000 | 773 | 593 | -3.29846835 | TLE1 |
| 8 | 57,975,000 | 58,125,000 | 774 | 774 | -0.425447878 | TLE1 |
| 8 | 58,050,000 | 58,200,000 | 775 | 983 | 0.788492851 | |
| 8 | 58,125,000 | 58,275,000 | 776 | 862 | 0.356007232 | SPATA31D1,ENSBTAG00000046782 |
| 8 | 58,200,000 | 58,350,000 | 777 | 1023 | 0.646738708 | SPATA31D1,ENSBTAG00000046782 |
| 8 | 58,275,000 | 58,425,000 | 778 | 1030 | 1.090955207 | |
| 8 | 58,350,000 | 58,500,000 | 779 | 852 | 0.517835685 | |
| 8 | 58,425,000 | 58,575,000 | 780 | 1021 | -0.2069657 | |
| 8 | 58,500,000 | 58,650,000 | 781 | 1097 | -2.027178191 | FKBP8 |
| 8 | 58,575,000 | 58,725,000 | 782 | 1026 | -3.281121467 | FKBP8 |
| 8 | 58,650,000 | 58,800,000 | 783 | 938 | -0.845711142 | |
| 8 | 58,725,000 | 58,875,000 | 784 | 794 | 0.745763365 | |
| 8 | 58,800,000 | 58,950,000 | 785 | 979 | 0.679799423 | |
| 8 | 58,875,000 | 59,025,000 | 786 | 1125 | 0.92438061 | |
| 8 | 58,950,000 | 59,100,000 | 787 | 972 | 0.367190275 | |
| 8 | 59,025,000 | 59,175,000 | 788 | 817 | -0.485021782 | |
| 8 | 59,100,000 | 59,250,000 | 789 | 915 | 0.352374683 | |
| 8 | 59,175,000 | 59,325,000 | 790 | 1041 | 0.881979267 | |
| 8 | 59,250,000 | 59,400,000 | 791 | 921 | 0.858442378 | |
| 8 | 59,325,000 | 59,475,000 | 792 | 955 | 0.584786664 | |
| 8 | 59,400,000 | 59,550,000 | 793 | 1078 | 0.745781606 | ENSBTAG00000038982 |
| 8 | 59,475,000 | 59,625,000 | 794 | 1081 | 0.963412786 | ENSBTAG00000017338,ENSBTAG00000038982 |
| 8 | 59,550,000 | 59,700,000 | 795 | 702 | 0.826549491 | DNAJB5,KIAA1045,ENSBTAG00000017338 |
| 8 | 59,625,000 | 59,775,000 | 796 | 490 | 0.389163446 | DNAJB5,FAM214B,KIAA1045,MGC159566,PIGO,STOML2,VCP |
| 8 | 59,700,000 | 59,850,000 | 797 | 828 | 0.302911047 | FAM214B,MGC159566,PIGO,STOML2,UNC13B,VCP |
| 8 | 59,775,000 | 59,925,000 | 798 | 988 | 0.212561329 | FAM214B,UNC13B |
| 8 | 59,850,000 | 60,000,000 | 799 | 714 | 0.081999245 | UNC13B |
| 8 | 59,925,000 | 60,075,000 | 800 | 625 | -0.211292299 | UNC13B,ENSBTAG00000011402 |
| 8 | 60,000,000 | 60,150,000 | 801 | 556 | 0.194915117 | RUSC2,UNC13B,ENSBTAG00000011402 |
| 8 | 60,075,000 | 60,225,000 | 802 | 357 | 1.006620534 | CD72,FAM166B,RUSC2,TESK1,ENSBTAG00000011402 |
| 8 | 60,150,000 | 60,300,000 | 803 | 410 | 0.049940278 | ARHGEF39,CA9,CCDC107,CD72,FAM166B,RUSC2,SIT1,TESK1,TLN1,TPM2 |
| 8 | 60,225,000 | 60,375,000 | 804 | 557 | -0.113794918 | ARHGEF39,CA9,CCDC107,CREB3,GBA2,MSMP,NPR2,RGP1,SIT1,TLN1,TPM2 |
| 8 | 60,300,000 | 60,450,000 | 805 | 681 | 0.675948332 | CREB3,FAM221B,GBA2,HINT2,MSMP,NPR2,RGP1,SPAG8,TLN1,TMEM8B,ENSBTAG00000047598 |
| 8 | 60,375,000 | 60,525,000 | 806 | 960 | 0.796021388 | FAM221B,HINT2,NPR2,SPAG8,TMEM8B,ENSBTAG0000026123,ENSBTAG00000045900,ENSBTAG00000047237,ENSBTAG00000047598 |
| 8 | 60,450,000 | 60,600,000 | 807 | 1133 | 0.426919616 | ENSBTAG00000026123,ENSBTAG00000032668,ENSBTAG00000032669,ENSBTAG00000045900,ENSBTAG0000045958,ENSBTAG00000047237 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| | | | | | | OR13C7P,ENSBTAG00000032668,ENSBTAG00000032669,ENSBTAG00000032670,ENSBTAG00000038308,ENSBTAG00000039443,ENSBTAG00000045958,ENSBTAG00000047099 |
| 8 | 60,525,000 | 60,675,000 | 808 | 770 | 0.305827289 | OR13C7P,RECK,ENSBTAG00000032670,ENSBTAG00000038086,ENSBTAG00000038308,ENSBTAG00000039443,ENSBTAG00000047099 |
| 8 | 60,600,000 | 60,750,000 | 809 | 474 | 0.344735188 | CCIN,GLIPR2,RECK,ENSBTAG00000038086 |
| 8 | 60,675,000 | 60,825,000 | 810 | 892 | 0.531617126 | CCIN,CLTA,GLIPR2,GNE,RECK |
| 8 | 60,750,000 | 60,900,000 | 811 | 983 | 0.094896226 | CLTA,GNE,RNF38 |
| 8 | 60,825,000 | 60,975,000 | 812 | 624 | -0.941572488 | GNE,RNF38 |
| 8 | 60,900,000 | 61,050,000 | 813 | 557 | -1.15467751 | RNF38 |
| 8 | 60,975,000 | 61,125,000 | 814 | 556 | -1.35645885 | MELK |
| 8 | 61,050,000 | 61,200,000 | 815 | 738 | 0.575436314 | MELK |
| 8 | 61,125,000 | 61,275,000 | 816 | 966 | 1.084205215 | MELK |
| 8 | 61,200,000 | 61,350,000 | 817 | 1135 | 1.116418382 | MELK |
| 8 | 61,275,000 | 61,425,000 | 818 | 1140 | 1.07366034 | PAX5 |
| 8 | 61,350,000 | 61,500,000 | 819 | 1001 | 0.75699835 | PAX5 |
| 8 | 61,425,000 | 61,575,000 | 820 | 894 | 0.554707505 | PAX5 |
| 8 | 61,500,000 | 61,650,000 | 821 | 617 | 0.667983618 | PAX5,ZCCHC7 |
| 8 | 61,575,000 | 61,725,000 | 822 | 474 | 0.541212725 | ZCCHC7 |
| 8 | 61,650,000 | 61,800,000 | 823 | 554 | 0.439663603 | ZCCHC7 |
| 8 | 61,725,000 | 61,875,000 | 824 | 646 | 0.47422768 | ZCCHC7 |
| 8 | 61,800,000 | 61,950,000 | 825 | 888 | 0.907372838 | GRHPR,ZCCHC7 |
| 8 | 61,875,000 | 62,025,000 | 826 | 1085 | 1.285707923 | FBXO10,GRHPR,POLR1E,ZBTB5,ZCCHC7 |
| 8 | 61,950,000 | 62,100,000 | 827 | 1212 | 0.983065413 | FBXO10,GRHPR,POLR1E,TOMM5,ZBTB5 |
| 8 | 62,025,000 | 62,175,000 | 828 | 1004 | 0.830631732 | FBXO10,TOMM5 |
| 8 | 62,100,000 | 62,250,000 | 829 | 745 | 1.288092117 | |
| 8 | 62,175,000 | 62,325,000 | 830 | 952 | 1.288903803 | FRMPD1 |
| 8 | 62,250,000 | 62,400,000 | 831 | 842 | 0.728155998 | DCAF10,EXOSC3,FRMPD1,TRMT10B |
| 8 | 62,325,000 | 62,475,000 | 832 | 611 | -0.278865368 | DCAF10,EXOSC3,MCART1,SHB,TRMT10B |
| 8 | 62,400,000 | 62,550,000 | 833 | 1038 | 0.535781735 | DCAF10,MCART1,SHB |
| 8 | 62,475,000 | 62,625,000 | 834 | 1284 | 0.935041658 | SHB |
| 8 | 62,550,000 | 62,700,000 | 835 | 1157 | 0.913195563 | SHB |
| 8 | 62,625,000 | 62,775,000 | 836 | 1101 | 0.801405099 | |
| 8 | 62,700,000 | 62,850,000 | 837 | 1341 | -1.512846106 | |
| 8 | 62,775,000 | 62,925,000 | 838 | 1309 | -1.699489636 | ALDH1B1,IGFBPL1 |
| 8 | 62,850,000 | 63,000,000 | 839 | 1226 | -0.078149442 | ALDH1B1,CCDC180,IGFBPL1,ENSBTAG00000040034 |
| 8 | 62,925,000 | 63,075,000 | 840 | 1259 | 0.052773619 | CCDC180,TDRD7,ENSBTAG00000040034 |
| 8 | 63,000,000 | 63,150,000 | 841 | 841 | -0.110994209 | CCDC180,TDRD7 |
| 8 | 63,075,000 | 63,225,000 | 842 | 892 | 0.639804754 | TDRD7,TMOD1 |
| 8 | 63,150,000 | 63,300,000 | 843 | 1243 | 1.151134094 | NCBP1,TDRD7,TMOD1,TSTD2 |
| 8 | 63,225,000 | 63,375,000 | 844 | 1078 | 1.162817891 | NCBP1,TMOD1,TSTD2,XPA |
| 8 | 63,300,000 | 63,450,000 | 845 | 1012 | 1.078322125 | NCBP1,XPA |
| 8 | 63,375,000 | 63,525,000 | 846 | 1020 | 1.122648625 | FOXE1 |
| 8 | 63,450,000 | 63,600,000 | 847 | 903 | 0.83723235 | C8H9ORF156,FOXE1,HEMGN |
| 8 | 63,525,000 | 63,675,000 | 848 | 781 | 0.494989064 | ANP32B,C8H9ORF156,HEMGN,NANS |
| 8 | 63,600,000 | 63,750,000 | 849 | 716 | 0.87608274 | ANP32B,CORO2A,NANS,TRIM14 |
| 8 | 63,675,000 | 63,825,000 | 850 | 1005 | 1.121725824 | CORO2A,TBC1D2,TRIM14 |
| 8 | 63,750,000 | 63,900,000 | 851 | 1293 | 0.844553053 | CORO2A,GABBR2,TBC1D2 |
| 8 | 63,825,000 | 63,975,000 | 852 | 1316 | 0.443682744 | GABBR2 |
| 8 | 63,900,000 | 64,050,000 | 853 | 841 | -0.377764994 | GABBR2 |
| 8 | 63,975,000 | 64,125,000 | 854 | 601 | -0.487030745 | GABBR2 |
| 8 | 64,050,000 | 64,200,000 | 855 | 667 | 0.295888842 | GABBR2 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 64,125,000 | 64,275,000 | 856 | 750 | 1.023004539 | ANKS6 |
| 8 | 64,200,000 | 64,350,000 | 857 | 904 | 1.025720576 | ANKS6,GALNT12 |
| 8 | 64,275,000 | 64,425,000 | 858 | 988 | 0.800144806 | ANKS6,GALNT12 |
| 8 | 64,350,000 | 64,500,000 | 859 | 969 | 0.32957574 | COL15A1 |
| 8 | 64,425,000 | 64,575,000 | 860 | 782 | -0.472231651 | COL15A1,TGFBR1 |
| 8 | 64,500,000 | 64,650,000 | 861 | 507 | -1.573809633 | COL15A1,TGFBR1,ENSBTAG00000047836 |
| 8 | 64,575,000 | 64,725,000 | 862 | 341 | -1.170125445 | ALG2,SEC61B,TGFBR1,ENSBTAG00000047836 |
| 8 | 64,650,000 | 64,800,000 | 863 | 395 | 0.255725956 | ALG2,SEC61B |
| 8 | 64,725,000 | 64,875,000 | 864 | 448 | 0.69777449 | SEC61B |
| 8 | 64,800,000 | 64,950,000 | 865 | 505 | 1.015984714 | |
| 8 | 64,875,000 | 65,025,000 | 866 | 797 | 1.162133798 | ENSBTAG00000019143 |
| 8 | 64,950,000 | 65,100,000 | 867 | 991 | 1.363790163 | ENSBTAG00000019143 |
| 8 | 65,025,000 | 65,175,000 | 868 | 954 | 1.28443664 | |
| 8 | 65,100,000 | 65,250,000 | 869 | 860 | 1.10481004 | |
| 8 | 65,175,000 | 65,325,000 | 870 | 725 | 1.059901035 | |
| 8 | 65,250,000 | 65,400,000 | 871 | 786 | 0.805989973 | NR4A3 |
| 8 | 65,325,000 | 65,475,000 | 872 | 887 | 0.554493564 | NR4A3,STX17 |
| 8 | 65,400,000 | 65,550,000 | 873 | 799 | 0.364862507 | ERP44,STX17 |
| 8 | 65,475,000 | 65,625,000 | 874 | 804 | 0.824124318 | ERP44,INVS,STX17 |
| 8 | 65,550,000 | 65,700,000 | 875 | 832 | 0.61033711 | ERP44,INVS |
| 8 | 65,625,000 | 65,775,000 | 876 | 851 | 0.545689401 | INVS,TEX10 |
| 8 | 65,700,000 | 65,850,000 | 877 | 1022 | 0.736544229 | INVS,TEX10,ENSBTAG00000035708 |
| 8 | 65,775,000 | 65,925,000 | 878 | 1390 | 0.584179296 | TEX10,ENSBTAG00000035707,ENSBTAG00000035708 |
| 8 | 65,850,000 | 66,000,000 | 879 | 1595 | 0.812024517 | ENSBTAG00000018095,ENSBTAG00000035707,ENSBTAG00000035708 |
| 8 | 65,925,000 | 66,075,000 | 880 | 1497 | 0.651683996 | ENSBTAG00000018095,ENSBTAG00000035709 |
| 8 | 66,000,000 | 66,150,000 | 881 | 1303 | 0.283473229 | ENSBTAG00000035709,ENSBTAG00000037971 |
| 8 | 66,075,000 | 66,225,000 | 882 | 1239 | 0.820211245 | ENSBTAG00000037971,ENSBTAG00000047647 |
| 8 | 66,150,000 | 66,300,000 | 883 | 1115 | 1.125353612 | ENSBTAG00000047647 |
| 8 | 66,225,000 | 66,375,000 | 884 | 1181 | 0.960461146 | |
| 8 | 66,300,000 | 66,450,000 | 885 | 1156 | 0.346327134 | ENSBTAG00000006446 |
| 8 | 66,375,000 | 66,525,000 | 886 | 1211 | 0.549876075 | ENSBTAG00000006446 |
| 8 | 66,450,000 | 66,600,000 | 887 | 1442 | 0.901712343 | ENSBTAG00000006446 |
| 8 | 66,525,000 | 66,675,000 | 888 | 1265 | 1.003524993 | ENSBTAG00000006446 |
| 8 | 66,600,000 | 66,750,000 | 889 | 1248 | 0.646306086 | ENSBTAG00000006446 |
| 8 | 66,675,000 | 66,825,000 | 890 | 1125 | 0.135768671 | |
| 8 | 66,750,000 | 66,900,000 | 891 | 1010 | -0.874082957 | |
| 8 | 66,825,000 | 66,975,000 | 892 | 970 | -0.799742977 | |
| 8 | 66,900,000 | 67,050,000 | 893 | 705 | -0.318234129 | |
| 8 | 66,975,000 | 67,125,000 | 894 | 549 | 0.981044562 | |
| 8 | 67,050,000 | 67,200,000 | 895 | 1167 | 1.319452777 | |
| 8 | 67,125,000 | 67,275,000 | 896 | 1341 | 1.33214573 | ENSBTAG00000005966 |
| 8 | 67,200,000 | 67,350,000 | 897 | 1053 | 1.150472932 | ENSBTAG00000005966 |
| 8 | 67,275,000 | 67,425,000 | 898 | 1207 | 0.937173251 | |
| 8 | 67,350,000 | 67,500,000 | 899 | 1345 | 0.269235476 | LPL |
| 8 | 67,425,000 | 67,575,000 | 900 | 1590 | 0.275207742 | LPL |
| 8 | 67,500,000 | 67,650,000 | 901 | 1498 | 0.720223564 | LPL |
| 8 | 67,575,000 | 67,725,000 | 902 | 1257 | 1.15795718 | SLC18A1 |
| 8 | 67,650,000 | 67,800,000 | 903 | 1187 | 1.128628889 | ATP6V1B2,SLC18A1 |
| 8 | 67,725,000 | 67,875,000 | 904 | 1122 | -0.896916738 | ATP6V1B2,LZTS1,SLC18A1 |
| 8 | 67,800,000 | 67,950,000 | 905 | 949 | -1.374651981 | ATP6V1B2,LZTS1 |
| 8 | 67,875,000 | 68,025,000 | 906 | 1116 | 0.488613561 | |
| 8 | 67,950,000 | 68,100,000 | 907 | 1266 | 0.580124084 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 8 | 68,025,000 | 68,175,000 | 908 | 991 | 0.609767511 | |
| 8 | 68,100,000 | 68,250,000 | 909 | 1073 | 0.352986574 | |
| 8 | 68,175,000 | 68,325,000 | 910 | 1253 | -0.492914789 | |
| 8 | 68,250,000 | 68,400,000 | 911 | 1038 | -1.623020878 | |
| 8 | 68,325,000 | 68,475,000 | 912 | 820 | -1.412113545 | |
| 8 | 68,400,000 | 68,550,000 | 913 | 908 | -2.835981382 | |
| 8 | 68,475,000 | 68,625,000 | 914 | 1058 | -2.669792552 | |
| 8 | 68,550,000 | 68,700,000 | 915 | 1294 | -1.084825222 | |
| 8 | 68,625,000 | 68,775,000 | 916 | 1140 | -0.778142927 | |
| 8 | 68,700,000 | 68,850,000 | 917 | 846 | 0.154966621 | |
| 8 | 68,775,000 | 68,925,000 | 918 | 1067 | -0.835575129 | |
| 8 | 68,850,000 | 69,000,000 | 919 | 1307 | -0.488769848 | |
| 8 | 68,925,000 | 69,075,000 | 920 | 948 | 0.208309871 | |
| 8 | 69,000,000 | 69,150,000 | 921 | 664 | 0.836683338 | |
| 8 | 69,075,000 | 69,225,000 | 922 | 1059 | 0.156558973 | |
| 8 | 69,150,000 | 69,300,000 | 923 | 1090 | -0.596826761 | |
| 8 | 69,225,000 | 69,375,000 | 924 | 902 | 0.02537852 | |
| 8 | 69,300,000 | 69,450,000 | 925 | 1227 | 0.943223021 | |
| 8 | 69,375,000 | 69,525,000 | 926 | 1283 | 0.370844459 | GFRA2 |
| 8 | 69,450,000 | 69,600,000 | 927 | 986 | -0.592318097 | GFRA2 |
| 8 | 69,525,000 | 69,675,000 | 928 | 930 | 0.449166118 | GFRA2 |
| 8 | 69,600,000 | 69,750,000 | 929 | 862 | 0.963839414 | DOK2,GFRA2,XPO7 |
| 8 | 69,675,000 | 69,825,000 | 930 | 610 | 0.815008343 | DOK2,XPO7 |
| 8 | 69,750,000 | 69,900,000 | 931 | 477 | 0.373351688 | DMTN,FGF17,NPM2,XPO7 |
| 8 | 69,825,000 | 69,975,000 | 932 | 509 | 0.603488761 | DMTN,FAM160B2,FGF17,HR,LGI3,NPM2,NUDT18,REEP4,XPO7 |
| 8 | 69,900,000 | 70,050,000 | 933 | 678 | 0.760774991 | BMP1,FAM160B2,HR,LGI3,NUDT18,PHYHIP,REEP4,SFTPC |
| 8 | 69,975,000 | 70,125,000 | 934 | 804 | 0.114264751 | BMP1,PHYHIP,PIWIL2,POLR3D,SFTPC |
| 8 | 70,050,000 | 70,200,000 | 935 | 798 | 0.048344752 | PIWIL2,POLR3D,SLC39A14 |
| 8 | 70,125,000 | 70,275,000 | 936 | 730 | 0.394356997 | PIWIL2,PPP3CC,SLC39A14 |
| 8 | 70,200,000 | 70,350,000 | 937 | 515 | 0.510509923 | PPP3CC,SLC39A14 |
| 8 | 70,275,000 | 70,425,000 | 938 | 514 | 0.642772776 | CCAR2,PDLIM2,PPP3CC,SORBS3,ENSBTAG00000005466 |
| 8 | 70,350,000 | 70,500,000 | 939 | 594 | -0.168511402 | BIN3,CCAR2,PDLIM2,SORBS3,ENSBTAG00000005466 |
| 8 | 70,425,000 | 70,575,000 | 940 | 590 | -0.249341473 | BIN3,CCAR2,EGR3,PEBP4 |
| 8 | 70,500,000 | 70,650,000 | 941 | 641 | 0.112695341 | EGR3,PEBP4 |
| 8 | 70,575,000 | 70,725,000 | 942 | 838 | -0.181898644 | PEBP4 |
| 8 | 70,650,000 | 70,800,000 | 943 | 863 | 0.36649566 | PEBP4 |
| 8 | 70,725,000 | 70,875,000 | 944 | 715 | -0.042502035 | PEBP4,RHOBTB2,ENSBTAG00000035958 |
| 8 | 70,800,000 | 70,950,000 | 945 | 809 | -0.57335246 | RHOBTB2,TNFRSF10D,ENSBTAG00000035958 |
| 8 | 70,875,000 | 71,025,000 | 946 | 904 | -0.670912767 | RHOBTB2,TNFRSF10D |
| 8 | 70,950,000 | 71,100,000 | 947 | 587 | -0.576254259 | |
| 8 | 71,025,000 | 71,175,000 | 948 | 292 | -0.143976693 | ENSBTAG00000048226 |
| 8 | 71,100,000 | 71,250,000 | 949 | 701 | 0.067407062 | CHMP7,ENSBTAG00000046431,ENSBTAG00000048226 |
| 8 | 71,175,000 | 71,325,000 | 950 | 1151 | -0.608669521 | CHMP7,LOXL2,R3HCC1,ENSBTAG00000046431,ENSBTAG00000048226 |
| 8 | 71,250,000 | 71,400,000 | 951 | 1138 | -1.434184586 | CHMP7,LOXL2,R3HCC1 |
| 8 | 71,325,000 | 71,475,000 | 952 | 1038 | -0.227447238 | ENTPD4,LOXL2 |
| 8 | 71,400,000 | 71,550,000 | 953 | 979 | 0.795376554 | ENTPD4,SLC25A37 |
| 8 | 71,475,000 | 71,625,000 | 954 | 764 | 0.929199313 | SLC25A37 |
| 8 | 71,550,000 | 71,700,000 | 955 | 569 | 0.10224937 | NKX2-6,NKX3-1,SLC25A37 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 8 | 71,625,000 | 71,775,000 | 956 | 470 | -0.097967245 | NKX2-6,NKX3-1 |
| 8 | 71,700,000 | 71,850,000 | 957 | 535 | 0.255973021 | NKX2-6 |
| 8 | 71,775,000 | 71,925,000 | 958 | 673 | 0.928531534 | STC1 |
| 8 | 71,850,000 | 72,000,000 | 959 | 505 | 0.465670709 | STC1 |
| 8 | 71,925,000 | 72,075,000 | 960 | 321 | -1.223250174 | |
| 8 | 72,000,000 | 72,150,000 | 961 | 372 | -0.401187257 | |
| 8 | 72,075,000 | 72,225,000 | 962 | 459 | -1.346456151 | |
| 8 | 72,150,000 | 72,300,000 | 963 | 467 | -1.589371012 | ENSBTAG00000047207 |
| 8 | 72,225,000 | 72,375,000 | 964 | 584 | 0.445210675 | ENSBTAG00000047207 |
| 8 | 72,300,000 | 72,450,000 | 965 | 687 | 0.724528011 | ADAM28 |
| 8 | 72,375,000 | 72,525,000 | 966 | 774 | 0.465169103 | ADAM28,ADAMDEC1 |
| 8 | 72,450,000 | 72,600,000 | 967 | 1138 | 0.212395146 | ADAM28,ADAM7,ADAMDEC1 |
| 8 | 72,525,000 | 72,675,000 | 968 | 1296 | -0.311403099 | ADAM7 |
| 8 | 72,600,000 | 72,750,000 | 969 | 1264 | -0.544250787 | |
| 8 | 72,675,000 | 72,825,000 | 970 | 1422 | -0.026495671 | |
| 8 | 72,750,000 | 72,900,000 | 971 | 1256 | 0.370849422 | |
| 8 | 72,825,000 | 72,975,000 | 972 | 1102 | 0.617401877 | |
| 8 | 72,900,000 | 73,050,000 | 973 | 1202 | 0.372708389 | |
| 8 | 72,975,000 | 73,125,000 | 974 | 1237 | 0.23971445 | ENSBTAG00000001219 |
| 8 | 73,050,000 | 73,200,000 | 975 | 948 | 0.121022968 | NEFL,NF-M,ENSBTAG00000001219 |
| 8 | 73,125,000 | 73,275,000 | 976 | 471 | -0.406769849 | NEFL,NF-M |
| 8 | 73,200,000 | 73,350,000 | 977 | 747 | 0.403178692 | |
| 8 | 73,275,000 | 73,425,000 | 978 | 1015 | 0.214654455 | |
| 8 | 73,350,000 | 73,500,000 | 979 | 898 | 0.029250216 | |
| 8 | 73,425,000 | 73,575,000 | 980 | 848 | 0.867636693 | DOCK5 |
| 8 | 73,500,000 | 73,650,000 | 981 | 590 | 1.2761167 | DOCK5 |
| 8 | 73,575,000 | 73,725,000 | 982 | 456 | 0.71914038 | DOCK5,GNRH1,KCTD9 |
| 8 | 73,650,000 | 73,800,000 | 983 | 510 | 0.506036629 | DOCK5,GNRH1,KCTD9,ENSBTAG00000002756 |
| 8 | 73,725,000 | 73,875,000 | 984 | 624 | 0.311862138 | KCTD9,ENSBTAG00000002756,ENSBTAG00000010829,ENSBTAG000000046594 |
| 8 | 73,800,000 | 73,950,000 | 985 | 611 | 0.252245882 | ENSBTAG00000002756,ENSBTAG00000010829,ENSBTAG000000046594 |
| 8 | 73,875,000 | 74,025,000 | 986 | 492 | -0.078258465 | ENSBTAG00000010829 |
| 8 | 73,950,000 | 74,100,000 | 987 | 651 | -0.244207443 | |
| 8 | 74,025,000 | 74,175,000 | 988 | 877 | 0.373097375 | EBF2 |
| 8 | 74,100,000 | 74,250,000 | 989 | 758 | 0.776141436 | EBF2 |
| 8 | 74,175,000 | 74,325,000 | 990 | 596 | 0.471323214 | EBF2 |
| 8 | 74,250,000 | 74,400,000 | 991 | 895 | -0.692687192 | EBF2 |
| 8 | 74,325,000 | 74,475,000 | 992 | 982 | 0.192397547 | EBF2 |
| 8 | 74,400,000 | 74,550,000 | 993 | 414 | 1.296540408 | |
| 8 | 74,475,000 | 74,625,000 | 994 | 21 | 1.427056482 | |
| 8 | 74,550,000 | 74,700,000 | 995 | 3 | -2.98773696 | |
| 8 | 74,625,000 | 74,775,000 | 996 | 8 | 0.729926517 | |
| 8 | 74,700,000 | 74,850,000 | 997 | 177 | 1.196935981 | PPP2R2A |
| 8 | 74,775,000 | 74,925,000 | 998 | 467 | 1.106055374 | BNIP3L,PPP2R2A |
| 8 | 74,850,000 | 75,000,000 | 999 | 687 | 0.840187517 | BNIP3L,PPP2R2A |
| 8 | 74,925,000 | 75,075,000 | 1000 | 1036 | 0.853135279 | BNIP3L,PNMA2 |
| 8 | 75,000,000 | 75,150,000 | 1001 | 1377 | 0.166901633 | DPYSL2,PNMA2 |
| 8 | 75,075,000 | 75,225,000 | 1002 | 1666 | -0.364610836 | DPYSL2 |
| 8 | 75,150,000 | 75,300,000 | 1003 | 1727 | -0.071619788 | ADRA1A,DPYSL2 |
| 8 | 75,225,000 | 75,375,000 | 1004 | 1265 | 0.337999805 | ADRA1A |
| 8 | 75,300,000 | 75,450,000 | 1005 | 1091 | 0.922062365 | ADRA1A |
| 8 | 75,375,000 | 75,525,000 | 1006 | 1062 | 0.858936885 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 8 | 75,450,000 | 75,600,000 | 1007 | 780 | 0.909965854 | |
| 8 | 75,525,000 | 75,675,000 | 1008 | 772 | 1.00140524 | STMN4 |
| 8 | 75,600,000 | 75,750,000 | 1009 | 1085 | 0.230784991 | PTK2B,STMN4,TRIM35 |
| 8 | 75,675,000 | 75,825,000 | 1010 | 1114 | -0.08116608 | PTK2B,TRIM35 |
| 8 | 75,750,000 | 75,900,000 | 1011 | 896 | 0.071027216 | CHRNA2,PTK2B |
| 8 | 75,825,000 | 75,975,000 | 1012 | 1064 | -0.436110915 | CHRNA2,EPHX2,PTK2B |
| 8 | 75,900,000 | 76,050,000 | 1013 | 1299 | -0.356208128 | EPHX2,GULO,ENSBTAG00000015027 |
| 8 | 75,975,000 | 76,125,000 | 1014 | 1110 | 0.401294247 | APTX,DNAJA1,EPHX2,GULO,SMU1,ENSBTAG00000015027 |
| 8 | 76,050,000 | 76,200,000 | 1015 | 810 | 0.252845758 | APTX,B4GALT1,DNAJA1,SMU1 |
| 8 | 76,125,000 | 76,275,000 | 1016 | 640 | 0.086258609 | B4GALT1,SMU1 |
| 8 | 76,200,000 | 76,350,000 | 1017 | 596 | -0.899957162 | B4GALT1,SPINK4 |
| 8 | 76,275,000 | 76,425,000 | 1018 | 752 | -1.029449491 | BAG1,CHMP5,NFX1,SPINK4 |
| 8 | 76,350,000 | 76,500,000 | 1019 | 904 | 0.246846661 | BAG1,CHMP5,NFX1,ENSBTAG00000020105 |
| 8 | 76,425,000 | 76,575,000 | 1020 | 834 | 0.125363493 | AQP3,NFX1,NOL6,UBE2R2,ENSBTAG00000020105 |
| 8 | 76,500,000 | 76,650,000 | 1021 | 585 | -0.399119125 | AQP3,NOL6,UBE2R2 |
| 8 | 76,575,000 | 76,725,000 | 1022 | 449 | -1.047106079 | UBAP2,UBE2R2 |
| 8 | 76,650,000 | 76,800,000 | 1023 | 434 | -0.926021893 | UBAP2,UBE2R2 |
| 8 | 76,725,000 | 76,875,000 | 1024 | 683 | 0.212401699 | DCAF12,UBAP2 |
| 8 | 76,800,000 | 76,950,000 | 1025 | 919 | 0.551123713 | DCAF12 |
| 8 | 76,875,000 | 77,025,000 | 1026 | 839 | 0.355670179 | KIF24,UBAP1 |
| 8 | 76,950,000 | 77,100,000 | 1027 | 757 | -0.022788867 | KIF24,NUDT2,SMRP1,UBAP1,ENSBTAG00000005495 |
| 8 | 77,025,000 | 77,175,000 | 1028 | 679 | -0.112378315 | DNAI1,FAM219A,KIF24,NUDT2,SMRP1,ENSBTAG00000005495 |
| 8 | 77,100,000 | 77,250,000 | 1029 | 869 | -0.12637692 | DNAI1,ENHO,FAM219A,SMRP1,ENSBTAG00000005495 |
| 8 | 77,175,000 | 77,325,000 | 1030 | 827 | -0.052420502 | CNTFR,DCTN3,DNAI1,ENHO,RPP25L,ENSBTAG00000005495 |
| 8 | 77,250,000 | 77,400,000 | 1031 | 525 | 0.197157571 | ARID3C,CCL19,CCL27,CNTFR,DCTN3,GALT,IL11RA,RP25L,SIGMAR1 |
| 8 | 77,325,000 | 77,475,000 | 1032 | 727 | -1.452033016 | ARID3C,CCL19,CCL21,CCL27,DCTN3,GALT,IL11RA,SIGMAR1,ENSBTAG00000039021 |
| 8 | 77,400,000 | 77,550,000 | 1033 | 936 | -0.49288378 | CCL21,RASEF,ENSBTAG00000039021 |
| 8 | 77,475,000 | 77,625,000 | 1034 | 1042 | 0.711764602 | RASEF |
| 8 | 77,550,000 | 77,700,000 | 1035 | 1245 | 0.588483135 | RASEF |
| 8 | 77,625,000 | 77,775,000 | 1036 | 1274 | 0.694945106 | |
| 8 | 77,700,000 | 77,850,000 | 1037 | 1380 | 0.709688592 | FRMD3 |
| 8 | 77,775,000 | 77,925,000 | 1038 | 1569 | 0.309963928 | FRMD3 |
| 8 | 77,850,000 | 78,000,000 | 1039 | 1705 | 0.205534291 | FRMD3 |
| 8 | 77,925,000 | 78,075,000 | 1040 | 1851 | 0.444770237 | |
| 8 | 78,000,000 | 78,150,000 | 1041 | 1631 | 0.494288738 | |
| 8 | 78,075,000 | 78,225,000 | 1042 | 1402 | -0.856427794 | IDNK,UBQLN1 |
| 8 | 78,150,000 | 78,300,000 | 1043 | 1371 | -0.488642635 | IDNK,UBQLN1 |
| 8 | 78,225,000 | 78,375,000 | 1044 | 1070 | 1.084567785 | GKAP1,UBQLN1 |
| 8 | 78,300,000 | 78,450,000 | 1045 | 832 | -0.158684755 | GKAP1,KIF27 |
| 8 | 78,375,000 | 78,525,000 | 1046 | 674 | -0.558488515 | GKAP1,KIF27 |
| 8 | 78,450,000 | 78,600,000 | 1047 | 703 | 0.017193273 | C8H9orf64,HNRNPK,KIF27 |
| 8 | 78,525,000 | 78,675,000 | 1048 | 871 | 0.017810378 | C8H9orf64,HNRNPK |
| 8 | 78,600,000 | 78,750,000 | 1049 | 930 | -0.488146042 | |
| 8 | 78,675,000 | 78,825,000 | 1050 | 1254 | -2.242351739 | |
| 8 | 78,750,000 | 78,900,000 | 1051 | 1244 | -1.831432653 | SLC28A3 |
| 8 | 78,825,000 | 78,975,000 | 1052 | 920 | 0.443931153 | SLC28A3 |
| 8 | 78,900,000 | 79,050,000 | 1053 | 631 | 0.485757165 | SLC28A3 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------------|
| 8 | 78,975,000 | 79,125,000 | 1054 | 343 | 0.695365008 | |
| 8 | 79,050,000 | 79,200,000 | 1055 | 329 | 0.509343946 | |
| 8 | 79,125,000 | 79,275,000 | 1056 | 431 | -0.003532063 | |
| 8 | 79,200,000 | 79,350,000 | 1057 | 396 | -0.240261915 | NTRK2 |
| 8 | 79,275,000 | 79,425,000 | 1058 | 405 | 0.43054502 | NTRK2 |
| 8 | 79,350,000 | 79,500,000 | 1059 | 560 | 0.860395948 | NTRK2 |
| 8 | 79,425,000 | 79,575,000 | 1060 | 441 | 0.674476913 | NTRK2 |
| 8 | 79,500,000 | 79,650,000 | 1061 | 265 | -2.222137785 | NTRK2 |
| 8 | 79,575,000 | 79,725,000 | 1062 | 386 | -4.167664416 | NTRK2 |
| 8 | 79,650,000 | 79,800,000 | 1063 | 612 | -1.499400618 | NTRK2 |
| 8 | 79,725,000 | 79,875,000 | 1064 | 864 | 0.177156393 | NTRK2 |
| 8 | 79,800,000 | 79,950,000 | 1065 | 882 | -0.49252561 | |
| 8 | 79,875,000 | 80,025,000 | 1066 | 863 | -0.51330227 | |
| 8 | 79,950,000 | 80,100,000 | 1067 | 871 | -0.102164802 | |
| 8 | 80,025,000 | 80,175,000 | 1068 | 841 | -1.515511534 | |
| 8 | 80,100,000 | 80,250,000 | 1069 | 1101 | -0.887149908 | AGTPBP1 |
| 8 | 80,175,000 | 80,325,000 | 1070 | 1262 | 0.260549701 | AGTPBP1 |
| 8 | 80,250,000 | 80,400,000 | 1071 | 801 | 0.3817613 | AGTPBP1 |
| 8 | 80,325,000 | 80,475,000 | 1072 | 473 | 1.31568253 | AGTPBP1 |
| 8 | 80,400,000 | 80,550,000 | 1073 | 427 | 1.391295854 | NAA35 |
| 8 | 80,475,000 | 80,625,000 | 1074 | 250 | 0.985486846 | NAA35 |
| 8 | 80,550,000 | 80,700,000 | 1075 | 340 | 0.350828377 | GOLM1,NAA35 |
| 8 | 80,625,000 | 80,775,000 | 1076 | 580 | 0.136849803 | GOLM1,NAA35 |
| 8 | 80,700,000 | 80,850,000 | 1077 | 679 | 0.354766679 | C9orf153,ISCA1,ZCCHC6 |
| 8 | 80,775,000 | 80,925,000 | 1078 | 512 | 0.516113103 | C9orf153,ISCA1,ZCCHC6 |
| 8 | 80,850,000 | 81,000,000 | 1079 | 393 | 0.134575961 | ZCCHC6 |
| 8 | 80,925,000 | 81,075,000 | 1080 | 376 | 0.419706974 | |
| 8 | 81,000,000 | 81,150,000 | 1081 | 333 | 0.567682573 | |
| 8 | 81,075,000 | 81,225,000 | 1082 | 610 | -0.151587125 | |
| 8 | 81,150,000 | 81,300,000 | 1083 | 636 | -0.28886004 | |
| 8 | 81,225,000 | 81,375,000 | 1084 | 366 | -0.112346661 | |
| 8 | 81,300,000 | 81,450,000 | 1085 | 385 | 1.140941242 | |
| 8 | 81,375,000 | 81,525,000 | 1086 | 378 | 1.400402313 | GAS1 |
| 8 | 81,450,000 | 81,600,000 | 1087 | 391 | 0.191952948 | GAS1 |
| 8 | 81,525,000 | 81,675,000 | 1088 | 595 | -0.274482164 | |
| 8 | 81,600,000 | 81,750,000 | 1089 | 533 | 0.041201013 | |
| 8 | 81,675,000 | 81,825,000 | 1090 | 505 | 0.359905043 | |
| 8 | 81,750,000 | 81,900,000 | 1091 | 485 | -0.435932132 | |
| 8 | 81,825,000 | 81,975,000 | 1092 | 460 | -2.387238125 | |
| 8 | 81,900,000 | 82,050,000 | 1093 | 785 | -0.489086895 | |
| 8 | 81,975,000 | 82,125,000 | 1094 | 612 | 0.189534588 | |
| 8 | 82,050,000 | 82,200,000 | 1095 | 429 | -3.520336883 | |
| 8 | 82,125,000 | 82,275,000 | 1096 | 831 | -2.405529272 | DAPK1 |
| 8 | 82,200,000 | 82,350,000 | 1097 | 1135 | -0.848468087 | DAPK1 |
| 8 | 82,275,000 | 82,425,000 | 1098 | 1110 | -1.164038473 | CTSL1,DAPK1,FBP2 |
| 8 | 82,350,000 | 82,500,000 | 1099 | 952 | -1.446970965 | CTSL1,FBP1,FBP2 |
| 8 | 82,425,000 | 82,575,000 | 1100 | 1040 | -0.809632297 | FBP1,FBP2 |
| 8 | 82,500,000 | 82,650,000 | 1101 | 837 | -0.843511344 | |
| 8 | 82,575,000 | 82,725,000 | 1102 | 484 | -0.678074887 | ENSBTAG00000000699 |
| 8 | 82,650,000 | 82,800,000 | 1103 | 616 | 0.614481437 | ENSBTAG00000000699 |
| 8 | 82,725,000 | 82,875,000 | 1104 | 725 | 0.944696277 | |
| 8 | 82,800,000 | 82,950,000 | 1105 | 711 | 0.564532886 | |
| 8 | 82,875,000 | 83,025,000 | 1106 | 478 | 0.207602736 | FANCC,ENSBTAG00000045622 |

| | | | | | | |
|---|------------|------------|------|------|--------------|--------------------------------|
| 8 | 82,950,000 | 83,100,000 | 1107 | 507 | 0.579556007 | FANCC,ENSBTAG00000045622 |
| 8 | 83,025,000 | 83,175,000 | 1108 | 727 | 1.015752789 | FANCC |
| 8 | 83,100,000 | 83,250,000 | 1109 | 677 | 0.189289126 | FANCC,TSPY-M2 |
| 8 | 83,175,000 | 83,325,000 | 1110 | 657 | -2.370677176 | FANCC,TSPY-M2 |
| 8 | 83,250,000 | 83,400,000 | 1111 | 526 | -1.76423762 | FANCC,TSPY-M2 |
| 8 | 83,325,000 | 83,475,000 | 1112 | 538 | -1.336773264 | |
| 8 | 83,400,000 | 83,550,000 | 1113 | 505 | -1.209813511 | ENSBTAG00000009903 |
| 8 | 83,475,000 | 83,625,000 | 1114 | 284 | -1.178219458 | PTCH1,ENSBTAG00000009903 |
| 8 | 83,550,000 | 83,700,000 | 1115 | 254 | -0.085437384 | PTCH1 |
| 8 | 83,625,000 | 83,775,000 | 1116 | 319 | -0.525691007 | |
| 8 | 83,700,000 | 83,850,000 | 1117 | 367 | -0.476187214 | |
| 8 | 83,775,000 | 83,925,000 | 1118 | 496 | 0.156909257 | |
| 8 | 83,850,000 | 84,000,000 | 1119 | 606 | 0.175579645 | ERCC6L2 |
| 8 | 83,925,000 | 84,075,000 | 1120 | 915 | 0.75129288 | ERCC6L2 |
| 8 | 84,000,000 | 84,150,000 | 1121 | 1318 | 1.132930177 | ERCC6L2 |
| 8 | 84,075,000 | 84,225,000 | 1122 | 1530 | 1.229773106 | ERCC6L2 |
| 8 | 84,150,000 | 84,300,000 | 1123 | 1340 | 1.079644002 | |
| 8 | 84,225,000 | 84,375,000 | 1124 | 1086 | 0.894929763 | |
| 8 | 84,300,000 | 84,450,000 | 1125 | 933 | 0.469358178 | HSD17B3 |
| 8 | 84,375,000 | 84,525,000 | 1126 | 648 | -2.32490813 | HSD17B3,SLC35D2,ZNF367 |
| 8 | 84,450,000 | 84,600,000 | 1127 | 438 | -3.6269536 | HABP4,SLC35D2,ZNF367 |
| 8 | 84,525,000 | 84,675,000 | 1128 | 314 | -0.786776785 | CDC14B,HABP4,ZNF367 |
| 8 | 84,600,000 | 84,750,000 | 1129 | 646 | -1.89892692 | CDC14B,HABP4 |
| 8 | 84,675,000 | 84,825,000 | 1130 | 659 | -2.613080107 | AAED1,CDC14B |
| 8 | 84,750,000 | 84,900,000 | 1131 | 605 | -2.7249669 | AAED1,RPS15A,ZNF782 |
| 8 | 84,825,000 | 84,975,000 | 1132 | 971 | -2.89775156 | RPS15A,ZNF782 |
| 8 | 84,900,000 | 85,050,000 | 1133 | 717 | -2.448815824 | CTSL,ZNF782 |
| 8 | 84,975,000 | 85,125,000 | 1134 | 482 | -1.274051985 | CTSL |
| 8 | 85,050,000 | 85,200,000 | 1135 | 642 | -0.269887456 | ENSBTAG00000009764 |
| 8 | 85,125,000 | 85,275,000 | 1136 | 593 | -0.121913721 | IARS,ZNF484,ENSBTAG00000009764 |
| 8 | 85,200,000 | 85,350,000 | 1137 | 463 | 0.013426606 | IARS,ZNF484 |
| 8 | 85,275,000 | 85,425,000 | 1138 | 360 | 0.400629507 | CENPP,IARS,NOL8 |
| 8 | 85,350,000 | 85,500,000 | 1139 | 300 | -0.650743219 | ASPN,CENPP,IARS,NOL8,OGN,OMD |
| 8 | 85,425,000 | 85,575,000 | 1140 | 361 | -1.206055412 | ASPN,ECM2,OGN,OMD |
| 8 | 85,500,000 | 85,650,000 | 1141 | 336 | -0.935927717 | ASPN,ECM2,IPPK |
| 8 | 85,575,000 | 85,725,000 | 1142 | 341 | 0.060564229 | BICD2,ECM2,IPPK |
| 8 | 85,650,000 | 85,800,000 | 1143 | 404 | 0.362435181 | BICD2,IPPK |
| 8 | 85,725,000 | 85,875,000 | 1144 | 502 | -0.281453672 | BICD2,FGD3 |
| 8 | 85,800,000 | 85,950,000 | 1145 | 565 | -0.836841601 | C9orf89,FGD3,NINJ1,SUSD3 |
| 8 | 85,875,000 | 86,025,000 | 1146 | 490 | -0.772331231 | C9orf89,NINJ1,SUSD3,WNK2 |
| 8 | 85,950,000 | 86,100,000 | 1147 | 473 | 0.313810306 | WNK2 |
| 8 | 86,025,000 | 86,175,000 | 1148 | 713 | -0.445791864 | WNK2 |
| 8 | 86,100,000 | 86,250,000 | 1149 | 902 | -1.122282841 | FAM120A,WNK2 |
| 8 | 86,175,000 | 86,325,000 | 1150 | 629 | -2.777808553 | FAM120A |
| 8 | 86,250,000 | 86,400,000 | 1151 | 485 | -3.764984885 | FAM120A,PHF2 |
| 8 | 86,325,000 | 86,475,000 | 1152 | 544 | -1.824069993 | PHF2 |
| 8 | 86,400,000 | 86,550,000 | 1153 | 902 | 0.955732396 | PHF2 |
| 8 | 86,475,000 | 86,625,000 | 1154 | 1357 | 0.504968205 | ENSBTAG00000009073 |
| 8 | 86,550,000 | 86,700,000 | 1155 | 961 | -0.219745377 | BARX1,ENSBTAG00000009073 |
| 8 | 86,625,000 | 86,775,000 | 1156 | 788 | -1.968461331 | BARX1 |
| 8 | 86,700,000 | 86,850,000 | 1157 | 1233 | -1.92839169 | PTPDC1 |
| 8 | 86,775,000 | 86,925,000 | 1158 | 1125 | -0.756402496 | PTPDC1 |
| 8 | 86,850,000 | 87,000,000 | 1159 | 848 | -0.060811094 | ZNF169 |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 8 | 86,925,000 | 87,075,000 | 1160 | 1486 | 0.94425892 | ZNF169,ENSBTAG00000031359 |
| 8 | 87,000,000 | 87,150,000 | 1161 | 1785 | 1.055643698 | CDC42BPA,ENSBTAG00000031359 |
| 8 | 87,075,000 | 87,225,000 | 1162 | 1434 | 0.91961621 | CDC42BPA,SPTLC1 |
| 8 | 87,150,000 | 87,300,000 | 1163 | 1447 | 0.623063721 | CDC42BPA,SPTLC1 |
| 8 | 87,225,000 | 87,375,000 | 1164 | 1409 | 0.555762706 | ROR2,SPTLC1 |
| 8 | 87,300,000 | 87,450,000 | 1165 | 1570 | 0.532047592 | ROR2 |
| 8 | 87,375,000 | 87,525,000 | 1166 | 1511 | 0.411147431 | ROR2 |
| 8 | 87,450,000 | 87,600,000 | 1167 | 1443 | 0.648034445 | ROR2 |
| 8 | 87,525,000 | 87,675,000 | 1168 | 1542 | 0.676006652 | ROR2 |
| 8 | 87,600,000 | 87,750,000 | 1169 | 1188 | 0.645109974 | |
| 8 | 87,675,000 | 87,825,000 | 1170 | 652 | -0.083175471 | |
| 8 | 87,750,000 | 87,900,000 | 1171 | 326 | -1.277846501 | NFIL3 |
| 8 | 87,825,000 | 87,975,000 | 1172 | 396 | -0.344539117 | AUH,NFIL3 |
| 8 | 87,900,000 | 88,050,000 | 1173 | 714 | 0.352199538 | AUH |
| 8 | 87,975,000 | 88,125,000 | 1174 | 584 | -0.207485202 | AUH |
| 8 | 88,050,000 | 88,200,000 | 1175 | 685 | -1.076037206 | |
| 8 | 88,125,000 | 88,275,000 | 1176 | 1418 | -0.496497971 | |
| 8 | 88,200,000 | 88,350,000 | 1177 | 1488 | 0.091015633 | |
| 8 | 88,275,000 | 88,425,000 | 1178 | 1379 | 0.49782702 | SYK |
| 8 | 88,350,000 | 88,500,000 | 1179 | 1730 | 0.693999531 | SYK |
| 8 | 88,425,000 | 88,575,000 | 1180 | 1766 | 0.54286971 | SYK |
| 8 | 88,500,000 | 88,650,000 | 1181 | 1469 | 0.52324731 | SYK,ENSBTAG00000046969 |
| 8 | 88,575,000 | 88,725,000 | 1182 | 1591 | 0.015003904 | DIRAS2,ENSBTAG00000046969 |
| 8 | 88,650,000 | 88,800,000 | 1183 | 1560 | 0.094440852 | DIRAS2 |
| 8 | 88,725,000 | 88,875,000 | 1184 | 1167 | 0.321621035 | |
| 8 | 88,800,000 | 88,950,000 | 1185 | 1480 | 0.085270305 | |
| 8 | 88,875,000 | 89,025,000 | 1186 | 1647 | 0.067720237 | |
| 8 | 88,950,000 | 89,100,000 | 1187 | 1475 | -0.069272717 | |
| 8 | 89,025,000 | 89,175,000 | 1188 | 1576 | 0.329904845 | |
| 8 | 89,100,000 | 89,250,000 | 1189 | 1697 | 0.625953402 | |
| 8 | 89,175,000 | 89,325,000 | 1190 | 1469 | 0.707963889 | |
| 8 | 89,250,000 | 89,400,000 | 1191 | 1184 | 0.281346873 | |
| 8 | 89,325,000 | 89,475,000 | 1192 | 1057 | 0.071283084 | |
| 8 | 89,400,000 | 89,550,000 | 1193 | 849 | -0.470490258 | |
| 8 | 89,475,000 | 89,625,000 | 1194 | 848 | -0.741168812 | |
| 8 | 89,550,000 | 89,700,000 | 1195 | 1201 | -1.99727036 | |
| 8 | 89,625,000 | 89,775,000 | 1196 | 1233 | -2.989096456 | |
| 8 | 89,700,000 | 89,850,000 | 1197 | 982 | -2.841016973 | |
| 8 | 89,775,000 | 89,925,000 | 1198 | 1013 | -1.59425212 | |
| 8 | 89,850,000 | 90,000,000 | 1199 | 1074 | -0.177196791 | |
| 8 | 89,925,000 | 90,075,000 | 1200 | 1212 | 0.469698266 | GADD45G |
| 8 | 90,000,000 | 90,150,000 | 1201 | 1124 | 0.370055246 | GADD45G,SEMA4D |
| 8 | 90,075,000 | 90,225,000 | 1202 | 752 | 0.404053467 | SEMA4D |
| 8 | 90,150,000 | 90,300,000 | 1203 | 456 | 0.637804648 | SECISBP2,SEMA4D |
| 8 | 90,225,000 | 90,375,000 | 1204 | 544 | 0.81130328 | CKS2,SECISBP2,SEMA4D |
| 8 | 90,300,000 | 90,450,000 | 1205 | 649 | 0.885739131 | CKS2 |
| 8 | 90,375,000 | 90,525,000 | 1206 | 625 | 0.452277632 | |
| 8 | 90,450,000 | 90,600,000 | 1207 | 889 | 0.963293365 | SHC3 |
| 8 | 90,525,000 | 90,675,000 | 1208 | 1008 | 0.698920049 | S1PR3,SHC3 |
| 8 | 90,600,000 | 90,750,000 | 1209 | 986 | 0.437476509 | S1PR3,SHC3 |
| 8 | 90,675,000 | 90,825,000 | 1210 | 1326 | 1.039670863 | |
| 8 | 90,750,000 | 90,900,000 | 1211 | 1214 | 0.859406298 | |
| 8 | 90,825,000 | 90,975,000 | 1212 | 814 | -0.17379089 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------------|
| 8 | 90,900,000 | 91,050,000 | 1213 | 930 | -0.523504976 | |
| 8 | 90,975,000 | 91,125,000 | 1214 | 921 | -0.013893602 | NXNL2 |
| 8 | 91,050,000 | 91,200,000 | 1215 | 680 | 0.657095087 | NXNL2,SPIN1 |
| 8 | 91,125,000 | 91,275,000 | 1216 | 542 | 0.849896127 | NXNL2,SPIN1 |
| 8 | 91,200,000 | 91,350,000 | 1217 | 490 | 0.364747229 | SPIN1 |
| 8 | 91,275,000 | 91,425,000 | 1218 | 783 | 1.024192198 | |
| 8 | 91,350,000 | 91,500,000 | 1219 | 820 | 0.255253158 | |
| 8 | 91,425,000 | 91,575,000 | 1220 | 884 | -0.512155285 | |
| 8 | 91,500,000 | 91,650,000 | 1221 | 971 | -0.217776848 | CCRK,FBXW12 |
| 8 | 91,575,000 | 91,725,000 | 1222 | 632 | -0.461118568 | CCRK,FBXW12,ENSBTAG00000021235 |
| 8 | 91,650,000 | 91,800,000 | 1223 | 456 | 0.059771567 | FBXW12,ENSBTAG00000021235 |
| 8 | 91,725,000 | 91,875,000 | 1224 | 730 | -1.466193079 | ENSBTAG00000021235,ENSBTAG00000021991 |
| 8 | 91,800,000 | 91,950,000 | 1225 | 923 | -1.727603489 | MURC,ENSBTAG00000021991 |
| 8 | 91,875,000 | 92,025,000 | 1226 | 713 | -0.727156326 | MURC,ENSBTAG00000021991 |
| 8 | 91,950,000 | 92,100,000 | 1227 | 654 | -0.563163279 | |
| 8 | 92,025,000 | 92,175,000 | 1228 | 577 | -0.639283717 | |
| 8 | 92,100,000 | 92,250,000 | 1229 | 442 | -0.715269365 | |
| 8 | 92,175,000 | 92,325,000 | 1230 | 574 | 0.235166191 | |
| 8 | 92,250,000 | 92,400,000 | 1231 | 1082 | 0.16142033 | LPPR1 |
| 8 | 92,325,000 | 92,475,000 | 1232 | 1026 | 0.239246959 | LPPR1 |
| 8 | 92,400,000 | 92,550,000 | 1233 | 825 | 0.312965793 | LPPR1 |
| 8 | 92,475,000 | 92,625,000 | 1234 | 977 | 0.59962597 | LPPR1 |
| 8 | 92,550,000 | 92,700,000 | 1235 | 893 | 0.606447163 | BAAT,LPPR1 |
| 8 | 92,625,000 | 92,775,000 | 1236 | 566 | -0.036185403 | ALDOB,BAAT,LPPR1,MRPL50,ZNF189 |
| 8 | 92,700,000 | 92,850,000 | 1237 | 365 | 0.942881547 | ALDOB,MRPL50,TMEM246,ZNF189 |
| 8 | 92,775,000 | 92,925,000 | 1238 | 340 | -2.835895067 | ALDOB,RNF20,TMEM246 |
| 8 | 92,850,000 | 93,000,000 | 1239 | 535 | -2.429351125 | ALDOB,GRIN3A,RNF20,TMEM246 |
| 8 | 92,925,000 | 93,075,000 | 1240 | 731 | -0.637036748 | GRIN3A,RNF20 |
| 8 | 93,000,000 | 93,150,000 | 1241 | 530 | -0.74319294 | GRIN3A |
| 8 | 93,075,000 | 93,225,000 | 1242 | 652 | 0.383875662 | GRIN3A |
| 8 | 93,150,000 | 93,300,000 | 1243 | 1275 | -0.221305032 | ENSBTAG00000030953 |
| 8 | 93,225,000 | 93,375,000 | 1244 | 1695 | -0.2997855 | ENSBTAG00000030953 |
| 8 | 93,300,000 | 93,450,000 | 1245 | 1687 | -0.361200875 | |
| 8 | 93,375,000 | 93,525,000 | 1246 | 1486 | -0.177830997 | |
| 8 | 93,450,000 | 93,600,000 | 1247 | 1714 | 0.424973434 | |
| 8 | 93,525,000 | 93,675,000 | 1248 | 2164 | -0.437604406 | |
| 8 | 93,600,000 | 93,750,000 | 1249 | 1844 | -1.249220788 | |
| 8 | 93,675,000 | 93,825,000 | 1250 | 1834 | -1.556528349 | |
| 8 | 93,750,000 | 93,900,000 | 1251 | 2064 | 0.24606073 | |
| 8 | 93,825,000 | 93,975,000 | 1252 | 1965 | 0.642650307 | |
| 8 | 93,900,000 | 94,050,000 | 1253 | 1745 | -1.202904009 | |
| 8 | 93,975,000 | 94,125,000 | 1254 | 1494 | -1.035065111 | |
| 8 | 94,050,000 | 94,200,000 | 1255 | 1275 | -1.712245558 | |
| 8 | 94,125,000 | 94,275,000 | 1256 | 900 | -1.64181253 | CYLC2 |
| 8 | 94,200,000 | 94,350,000 | 1257 | 778 | -0.586355917 | CYLC2 |
| 8 | 94,275,000 | 94,425,000 | 1258 | 852 | -1.000164795 | |
| 8 | 94,350,000 | 94,500,000 | 1259 | 1141 | -0.122626237 | |
| 8 | 94,425,000 | 94,575,000 | 1260 | 1394 | 0.431623393 | |
| 8 | 94,500,000 | 94,650,000 | 1261 | 1360 | -0.833337726 | |
| 8 | 94,575,000 | 94,725,000 | 1262 | 1213 | -1.998524736 | |
| 8 | 94,650,000 | 94,800,000 | 1263 | 835 | -0.678076301 | |
| 8 | 94,725,000 | 94,875,000 | 1264 | 711 | 0.921925278 | |
| 8 | 94,800,000 | 94,950,000 | 1265 | 1187 | 0.449440036 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 8 | 94,875,000 | 95,025,000 | 1266 | 1114 | -0.997517464 | |
| 8 | 94,950,000 | 95,100,000 | 1267 | 619 | -1.033031516 | |
| 8 | 95,025,000 | 95,175,000 | 1268 | 501 | 0.702830471 | |
| 8 | 95,100,000 | 95,250,000 | 1269 | 822 | -1.732280834 | |
| 8 | 95,175,000 | 95,325,000 | 1270 | 966 | -1.417386167 | |
| 8 | 95,250,000 | 95,400,000 | 1271 | 848 | 0.894205211 | SMC2 |
| 8 | 95,325,000 | 95,475,000 | 1272 | 1151 | 1.19488327 | SMC2 |
| 8 | 95,400,000 | 95,550,000 | 1273 | 1015 | 1.202161209 | SMC2 |
| 8 | 95,475,000 | 95,625,000 | 1274 | 885 | 1.203323282 | ENSBTAG00000047350 |
| 8 | 95,550,000 | 95,700,000 | 1275 | 1030 | 0.82616692 | ENSBTAG00000047350 |
| 8 | 95,625,000 | 95,775,000 | 1276 | 956 | 0.609038437 | OR13F1 |
| 8 | 95,700,000 | 95,850,000 | 1277 | 807 | 0.467545576 | OR13F1,ENSBTAG00000046292 |
| 8 | 95,775,000 | 95,925,000 | 1278 | 492 | -0.124072233 | ENSBTAG00000016173,ENSBTAG00000036005,ENSBTAG00000036008,ENSBTAG00000046292 |
| 8 | 95,850,000 | 96,000,000 | 1279 | 550 | 0.606625512 | ENSBTAG0000000145,ENSBTAG00000016173,ENSBTAG00000036005,ENSBTAG00000036008,ENSBTAG00000048106 |
| 8 | 95,925,000 | 96,075,000 | 1280 | 652 | 0.365336869 | OR13C3,ENSBTAG00000000145,ENSBTAG00000048106 |
| 8 | 96,000,000 | 96,150,000 | 1281 | 688 | -0.106554476 | OR13C3,OR13C8 |
| 8 | 96,075,000 | 96,225,000 | 1282 | 840 | 0.077539403 | OR13C8,ENSBTAG00000039868 |
| 8 | 96,150,000 | 96,300,000 | 1283 | 819 | -0.205116117 | ABCA1,NIPSNAP3A,ENSBTAG00000039868 |
| 8 | 96,225,000 | 96,375,000 | 1284 | 633 | -0.576419502 | ABCA1,NIPSNAP3A |
| 8 | 96,300,000 | 96,450,000 | 1285 | 627 | -0.692734262 | ABCA1 |
| 8 | 96,375,000 | 96,525,000 | 1286 | 628 | -0.506679641 | ABCA1 |
| 8 | 96,450,000 | 96,600,000 | 1287 | 410 | 0.129346555 | |
| 8 | 96,525,000 | 96,675,000 | 1288 | 421 | 0.579148207 | |
| 8 | 96,600,000 | 96,750,000 | 1289 | 441 | 0.481278618 | |
| 8 | 96,675,000 | 96,825,000 | 1290 | 627 | 0.815182924 | SLC44A1 |
| 8 | 96,750,000 | 96,900,000 | 1291 | 721 | 0.540053422 | SLC44A1 |
| 8 | 96,825,000 | 96,975,000 | 1292 | 579 | -0.01532912 | FSD1L,SLC44A1 |
| 8 | 96,900,000 | 97,050,000 | 1293 | 810 | 0.184738613 | FKTN,FSD1L |
| 8 | 96,975,000 | 97,125,000 | 1294 | 1233 | 0.744060036 | FKTN,FSD1L,TAL2 |
| 8 | 97,050,000 | 97,200,000 | 1295 | 1405 | 0.644150319 | FKTN,TAL2,TMEM38B |
| 8 | 97,125,000 | 97,275,000 | 1296 | 1335 | 0.207331263 | TMEM38B |
| 8 | 97,200,000 | 97,350,000 | 1297 | 954 | 0.454488363 | TMEM38B |
| 8 | 97,275,000 | 97,425,000 | 1298 | 666 | 0.540657552 | |
| 8 | 97,350,000 | 97,500,000 | 1299 | 927 | 0.132964243 | |
| 8 | 97,425,000 | 97,575,000 | 1300 | 831 | -0.264301508 | |
| 8 | 97,500,000 | 97,650,000 | 1301 | 396 | -0.980766911 | |
| 8 | 97,575,000 | 97,725,000 | 1302 | 442 | -0.830885576 | |
| 8 | 97,650,000 | 97,800,000 | 1303 | 824 | -0.512616574 | |
| 8 | 97,725,000 | 97,875,000 | 1304 | 921 | 0.05374396 | |
| 8 | 97,800,000 | 97,950,000 | 1305 | 769 | 0.100956371 | |
| 8 | 97,875,000 | 98,025,000 | 1306 | 776 | -0.367939791 | |
| 8 | 97,950,000 | 98,100,000 | 1307 | 816 | 0.484863581 | |
| 8 | 98,025,000 | 98,175,000 | 1308 | 782 | 0.968619901 | |
| 8 | 98,100,000 | 98,250,000 | 1309 | 811 | 0.767716568 | |
| 8 | 98,175,000 | 98,325,000 | 1310 | 691 | 0.685140639 | |
| 8 | 98,250,000 | 98,400,000 | 1311 | 403 | 0.186572127 | ZNF462 |
| 8 | 98,325,000 | 98,475,000 | 1312 | 451 | 0.310316651 | ZNF462 |
| 8 | 98,400,000 | 98,550,000 | 1313 | 1069 | 0.997405109 | ZNF462 |
| 8 | 98,475,000 | 98,625,000 | 1314 | 1133 | 0.884053617 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 8 | 98,550,000 | 98,700,000 | 1315 | 773 | -0.029760272 | RAD23B |
| 8 | 98,625,000 | 98,775,000 | 1316 | 674 | 0.023873005 | RAD23B |
| 8 | 98,700,000 | 98,850,000 | 1317 | 565 | -0.502619757 | KLF4,RAD23B |
| 8 | 98,775,000 | 98,925,000 | 1318 | 629 | -0.782842163 | KLF4 |
| 8 | 98,850,000 | 99,000,000 | 1319 | 753 | -0.538927026 | |
| 8 | 98,925,000 | 99,075,000 | 1320 | 901 | -0.26044122 | |
| 8 | 99,000,000 | 99,150,000 | 1321 | 796 | 0.769631972 | |
| 8 | 99,075,000 | 99,225,000 | 1322 | 553 | 0.954260268 | |
| 8 | 99,150,000 | 99,300,000 | 1323 | 471 | 0.871259438 | |
| 8 | 99,225,000 | 99,375,000 | 1324 | 337 | 0.983153529 | |
| 8 | 99,300,000 | 99,450,000 | 1325 | 534 | 0.675381433 | |
| 8 | 99,375,000 | 99,525,000 | 1326 | 738 | 0.348671065 | |
| 8 | 99,450,000 | 99,600,000 | 1327 | 633 | 0.269958461 | |
| 8 | 99,525,000 | 99,675,000 | 1328 | 529 | 0.025828298 | |
| 8 | 99,600,000 | 99,750,000 | 1329 | 536 | -1.011990361 | |
| 8 | 99,675,000 | 99,825,000 | 1330 | 652 | -1.729829102 | |
| 8 | 99,750,000 | 99,900,000 | 1331 | 532 | -1.929169371 | ENSBTAG00000000885 |
| 8 | 99,825,000 | 99,975,000 | 1332 | 394 | -0.748594257 | ENSBTAG00000000885 |
| 8 | 99,900,000 | 100,050,000 | 1333 | 355 | -0.213539355 | |
| 8 | 99,975,000 | 100,125,000 | 1334 | 297 | 0.039021476 | |
| 8 | 100,050,000 | 100,200,000 | 1335 | 371 | 0.544880535 | ACTL7A,ACTL7B,IKBKAP |
| 8 | 100,125,000 | 100,275,000 | 1336 | 412 | 0.699562099 | ACTL7A,ACTL7B,CTNNAL1,FAM206A,IKBKAP |
| 8 | 100,200,000 | 100,350,000 | 1337 | 360 | 0.992124357 | CTNNAL1,FAM206A,IKBKAP,TMEM245 |
| 8 | 100,275,000 | 100,425,000 | 1338 | 313 | 1.02532983 | CTNNAL1,EPB41L4B,FRRS1L,TMEM245 |
| 8 | 100,350,000 | 100,500,000 | 1339 | 291 | 0.748106838 | EPB41L4B,FRRS1L,TMEM245 |
| 8 | 100,425,000 | 100,575,000 | 1340 | 497 | 0.58344201 | EPB41L4B |
| 8 | 100,500,000 | 100,650,000 | 1341 | 728 | 0.579183524 | EPB41L4B,PTPN3 |
| 8 | 100,575,000 | 100,725,000 | 1342 | 603 | 0.888574798 | PTPN3 |
| 8 | 100,650,000 | 100,800,000 | 1343 | 665 | 1.130386945 | PTPN3 |
| 8 | 100,725,000 | 100,875,000 | 1344 | 974 | 0.119257343 | |
| 8 | 100,800,000 | 100,950,000 | 1345 | 892 | 0.272876564 | |
| 8 | 100,875,000 | 101,025,000 | 1346 | 910 | 0.72946279 | PALM2 |
| 8 | 100,950,000 | 101,100,000 | 1347 | 1246 | 0.758224851 | PALM2 |
| 8 | 101,025,000 | 101,175,000 | 1348 | 1443 | 0.844315875 | PALM2 |
| 8 | 101,100,000 | 101,250,000 | 1349 | 1514 | 0.554797458 | PALM2 |
| 8 | 101,175,000 | 101,325,000 | 1350 | 1526 | 0.103001021 | PALM2 |
| 8 | 101,250,000 | 101,400,000 | 1351 | 1419 | -0.389933205 | ENSBTAG00000014471 |
| 8 | 101,325,000 | 101,475,000 | 1352 | 1229 | -0.152657175 | C8H9orf152,ENSBTAG00000014471 |
| 8 | 101,400,000 | 101,550,000 | 1353 | 845 | -1.223030598 | C8H9orf152,TXN,TXNDC8,ENSBTAG00000014471 |
| 8 | 101,475,000 | 101,625,000 | 1354 | 436 | -1.852326113 | SVEP1,TXN,TXNDC8 |
| 8 | 101,550,000 | 101,700,000 | 1355 | 708 | 0.705500506 | SVEP1,TXNDC8 |
| 8 | 101,625,000 | 101,775,000 | 1356 | 915 | 0.741240016 | SVEP1 |
| 8 | 101,700,000 | 101,850,000 | 1357 | 585 | 0.859024754 | SVEP1 |
| 8 | 101,775,000 | 101,925,000 | 1358 | 410 | 0.725268687 | MUSK,SVEP1 |
| 8 | 101,850,000 | 102,000,000 | 1359 | 381 | -0.050296647 | MUSK |
| 8 | 101,925,000 | 102,075,000 | 1360 | 796 | 0.259507297 | LPAR1,MUSK |
| 8 | 102,000,000 | 102,150,000 | 1361 | 967 | 0.27835853 | LPAR1 |
| 8 | 102,075,000 | 102,225,000 | 1362 | 838 | 0.728769946 | LPAR1 |
| 8 | 102,150,000 | 102,300,000 | 1363 | 844 | 0.78047425 | |
| 8 | 102,225,000 | 102,375,000 | 1364 | 638 | 0.479856702 | |
| 8 | 102,300,000 | 102,450,000 | 1365 | 901 | 0.612099505 | |
| 8 | 102,375,000 | 102,525,000 | 1366 | 891 | 0.541763645 | KIAA0368,OR2K2 |
| 8 | 102,450,000 | 102,600,000 | 1367 | 540 | 0.609599253 | KIAA0368,OR2K2 |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|--|
| 8 | 102,525,000 | 102,675,000 | 1368 | 530 | 0.445549499 | KIAA0368,PTGR1,ZNF483 |
| 8 | 102,600,000 | 102,750,000 | 1369 | 686 | -0.779372558 | PTGR1,ZNF483 |
| 8 | 102,675,000 | 102,825,000 | 1370 | 717 | -2.355398466 | C9orf84,DNAJC25,GNG10,PTGR1 |
| 8 | 102,750,000 | 102,900,000 | 1371 | 449 | -3.340626685 | C9orf84,DNAJC25,GNG10 |
| 8 | 102,825,000 | 102,975,000 | 1372 | 401 | -0.726011914 | C9orf84 |
| 8 | 102,900,000 | 103,050,000 | 1373 | 513 | -0.573035359 | UGCG |
| 8 | 102,975,000 | 103,125,000 | 1374 | 586 | 0.097528103 | UGCG |
| 8 | 103,050,000 | 103,200,000 | 1375 | 727 | 1.132987068 | SUSD1 |
| 8 | 103,125,000 | 103,275,000 | 1376 | 891 | 0.43185803 | SUSD1 |
| 8 | 103,200,000 | 103,350,000 | 1377 | 678 | -1.099779584 | PTBP3,SUSD1 |
| 8 | 103,275,000 | 103,425,000 | 1378 | 452 | -0.128767503 | IGBP1,PTBP3,SUSD1 |
| 8 | 103,350,000 | 103,500,000 | 1379 | 580 | 1.160222648 | HSDL2,IGBP1,PTBP3 |
| 8 | 103,425,000 | 103,575,000 | 1380 | 763 | 1.10947687 | HSDL2,IGBP1 |
| 8 | 103,500,000 | 103,650,000 | 1381 | 535 | 0.723595647 | HSDL2,KIAA1958 |
| 8 | 103,575,000 | 103,725,000 | 1382 | 571 | -0.972627576 | INIP,KIAA1958 |
| 8 | 103,650,000 | 103,800,000 | 1383 | 898 | 0.164857596 | INIP,SNX30 |
| 8 | 103,725,000 | 103,875,000 | 1384 | 660 | 1.115081737 | SNX30,TSCOT |
| 8 | 103,800,000 | 103,950,000 | 1385 | 617 | 1.04999368 | SNX30,TSCOT,ENSBTAG00000018481,ENSBTAG00000047990 |
| 8 | 103,875,000 | 104,025,000 | 1386 | 1116 | 0.915258064 | ENSBTAG00000018481,ENSBTAG00000045868,ENSBTAG00000047990 |
| 8 | 103,950,000 | 104,100,000 | 1387 | 1268 | 1.001837554 | ENSBTAG00000045868 |
| 8 | 104,025,000 | 104,175,000 | 1388 | 998 | -0.239574273 | FKBP15,SLC31A1,SLC31A2 |
| 8 | 104,100,000 | 104,250,000 | 1389 | 728 | -0.816492016 | CDC26,FKBP15,PRPF4,RNF183,SLC31A1,SLC31A2 |
| 8 | 104,175,000 | 104,325,000 | 1390 | 596 | 0.929556856 | BSPRY,CDC26,PRPF4,RNF183,SLC31A1,WDR31 |
| 8 | 104,250,000 | 104,400,000 | 1391 | 851 | 0.869514493 | ALAD,BSPRY,C9orf43,HDHD3,POLE3,WDR31,ENSBTAG00000045506 |
| 8 | 104,325,000 | 104,475,000 | 1392 | 1023 | 0.185146748 | ALAD,BSPRY,C9orf43,HDHD3,POLE3,RGS3,ENSBTAG00000045506 |
| 8 | 104,400,000 | 104,550,000 | 1393 | 782 | -0.834486978 | RGS3 |
| 8 | 104,475,000 | 104,625,000 | 1394 | 546 | -0.79484389 | RGS3 |
| 8 | 104,550,000 | 104,700,000 | 1395 | 690 | 0.536837711 | |
| 8 | 104,625,000 | 104,775,000 | 1396 | 708 | 1.165645645 | |
| 8 | 104,700,000 | 104,850,000 | 1397 | 502 | -0.547052978 | ZNF618 |
| 8 | 104,775,000 | 104,925,000 | 1398 | 686 | -0.60747246 | ZNF618 |
| 8 | 104,850,000 | 105,000,000 | 1399 | 899 | -0.692329852 | ZNF618 |
| 8 | 104,925,000 | 105,075,000 | 1400 | 933 | -0.811389701 | AMBP,KIF12,ZNF618 |
| 8 | 105,000,000 | 105,150,000 | 1401 | 672 | -0.429409043 | AMBP,COL27A1,KIF12 |
| 8 | 105,075,000 | 105,225,000 | 1402 | 474 | -0.019939119 | AGP,AKNA,COL27A1 |
| 8 | 105,150,000 | 105,300,000 | 1403 | 517 | 0.155540656 | AGP,AKNA,COL27A1 |
| 8 | 105,225,000 | 105,375,000 | 1404 | 504 | 0.227285202 | AKNA,DFNB31 |
| 8 | 105,300,000 | 105,450,000 | 1405 | 491 | 0.024021235 | AKNA,DFNB31 |
| 8 | 105,375,000 | 105,525,000 | 1406 | 490 | -0.176253705 | ATP6V1G1,C9orf91,DFNB31 |
| 8 | 105,450,000 | 105,600,000 | 1407 | 497 | -0.24692857 | ATP6V1G1,C9orf91 |
| 8 | 105,525,000 | 105,675,000 | 1408 | 411 | -0.442548206 | C9orf91 |
| 8 | 105,600,000 | 105,750,000 | 1409 | 360 | -1.32491929 | TNFSF15 |
| 8 | 105,675,000 | 105,825,000 | 1410 | 382 | -1.612720967 | TNFSF15 |
| 8 | 105,750,000 | 105,900,000 | 1411 | 467 | -1.759102203 | TNFSF8 |
| 8 | 105,825,000 | 105,975,000 | 1412 | 593 | -0.018495815 | TNC,TNFSF8 |
| 8 | 105,900,000 | 106,050,000 | 1413 | 577 | 0.699697538 | TNC |
| 8 | 105,975,000 | 106,125,000 | 1414 | 574 | 0.143291242 | TNC |
| 8 | 106,050,000 | 106,200,000 | 1415 | 794 | -0.664594566 | TNC |
| 8 | 106,125,000 | 106,275,000 | 1416 | 829 | -1.282283787 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 8 | 106,200,000 | 106,350,000 | 1417 | 859 | -0.022656543 | |
| 8 | 106,275,000 | 106,425,000 | 1418 | 807 | 0.609028843 | |
| 8 | 106,350,000 | 106,500,000 | 1419 | 783 | 1.026911769 | |
| 8 | 106,425,000 | 106,575,000 | 1420 | 991 | 0.432248975 | |
| 8 | 106,500,000 | 106,650,000 | 1421 | 778 | -0.110736334 | |
| 8 | 106,575,000 | 106,725,000 | 1422 | 796 | 0.354874517 | |
| 8 | 106,650,000 | 106,800,000 | 1423 | 937 | 0.587860581 | |
| 8 | 106,725,000 | 106,875,000 | 1424 | 951 | 1.196443353 | |
| 8 | 106,800,000 | 106,950,000 | 1425 | 865 | 1.068274735 | |
| 8 | 106,875,000 | 107,025,000 | 1426 | 750 | -0.143102116 | |
| 8 | 106,950,000 | 107,100,000 | 1427 | 713 | -0.253882763 | |
| 8 | 107,025,000 | 107,175,000 | 1428 | 462 | -0.274135039 | PAPPA |
| 8 | 107,100,000 | 107,250,000 | 1429 | 367 | -1.494248124 | PAPPA |
| 8 | 107,175,000 | 107,325,000 | 1430 | 351 | -0.416163877 | PAPPA |
| 8 | 107,250,000 | 107,400,000 | 1431 | 482 | 0.084416743 | PAPPA |
| 8 | 107,325,000 | 107,475,000 | 1432 | 611 | 0.7589836 | PAPPA,ENSBTAG00000047511 |
| 8 | 107,400,000 | 107,550,000 | 1433 | 529 | 1.02804903 | ENSBTAG00000047511 |
| 8 | 107,475,000 | 107,625,000 | 1434 | 524 | 0.610114836 | ENSBTAG00000025667 |
| 8 | 107,550,000 | 107,700,000 | 1435 | 523 | 0.481162831 | TRIM32,ENSBTAG00000025667 |
| 8 | 107,625,000 | 107,775,000 | 1436 | 534 | 0.023517411 | TRIM32,ENSBTAG00000025667 |
| 8 | 107,700,000 | 107,850,000 | 1437 | 633 | 0.312643311 | ENSBTAG00000025667 |
| 8 | 107,775,000 | 107,925,000 | 1438 | 1082 | -0.123637409 | ENSBTAG00000025667 |
| 8 | 107,850,000 | 108,000,000 | 1439 | 1359 | 0.172090977 | |
| 8 | 107,925,000 | 108,075,000 | 1440 | 1077 | 0.709325876 | |
| 8 | 108,000,000 | 108,150,000 | 1441 | 944 | -0.060573956 | |
| 8 | 108,075,000 | 108,225,000 | 1442 | 879 | -1.02564215 | |
| 8 | 108,150,000 | 108,300,000 | 1443 | 892 | -1.065003547 | |
| 8 | 108,225,000 | 108,375,000 | 1444 | 931 | 0.212550074 | |
| 8 | 108,300,000 | 108,450,000 | 1445 | 568 | 0.942850618 | |
| 8 | 108,375,000 | 108,525,000 | 1446 | 435 | 0.519708528 | |
| 8 | 108,450,000 | 108,600,000 | 1447 | 738 | 0.271107084 | |
| 8 | 108,525,000 | 108,675,000 | 1448 | 867 | 0.090495733 | |
| 8 | 108,600,000 | 108,750,000 | 1449 | 584 | 0.258319009 | |
| 8 | 108,675,000 | 108,825,000 | 1450 | 443 | -0.834209339 | |
| 8 | 108,750,000 | 108,900,000 | 1451 | 1008 | 0.053190475 | TLR4 |
| 8 | 108,825,000 | 108,975,000 | 1452 | 969 | 0.803194381 | TLR4 |
| 8 | 108,900,000 | 109,050,000 | 1453 | 572 | 1.098515003 | |
| 8 | 108,975,000 | 109,125,000 | 1454 | 673 | 1.273490425 | |
| 8 | 109,050,000 | 109,200,000 | 1455 | 493 | 1.24666992 | |
| 8 | 109,125,000 | 109,275,000 | 1456 | 531 | -2.083115249 | |
| 8 | 109,200,000 | 109,350,000 | 1457 | 848 | -1.544114135 | |
| 8 | 109,275,000 | 109,425,000 | 1458 | 1150 | 0.131237373 | |
| 8 | 109,350,000 | 109,500,000 | 1459 | 1131 | 0.545498406 | |
| 8 | 109,425,000 | 109,575,000 | 1460 | 833 | 0.752412271 | |
| 8 | 109,500,000 | 109,650,000 | 1461 | 770 | 0.527325246 | |
| 8 | 109,575,000 | 109,725,000 | 1462 | 624 | 0.28194843 | |
| 8 | 109,650,000 | 109,800,000 | 1463 | 466 | 0.347141027 | |
| 8 | 109,725,000 | 109,875,000 | 1464 | 514 | -0.908079641 | ENSBTAG00000046729 |
| 8 | 109,800,000 | 109,950,000 | 1465 | 566 | -1.644362995 | ENSBTAG00000046729 |
| 8 | 109,875,000 | 110,025,000 | 1466 | 892 | -1.232850048 | |
| 8 | 109,950,000 | 110,100,000 | 1467 | 1157 | -0.27842278 | |
| 8 | 110,025,000 | 110,175,000 | 1468 | 998 | 1.010041955 | |
| 8 | 110,100,000 | 110,250,000 | 1469 | 701 | 1.206620049 | |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---|
| 8 | 110,175,000 | 110,325,000 | 1470 | 639 | 1.074596408 | |
| 8 | 110,250,000 | 110,400,000 | 1471 | 621 | 0.878454781 | |
| 8 | 110,325,000 | 110,475,000 | 1472 | 575 | 1.110741361 | BRINP1 |
| 8 | 110,400,000 | 110,550,000 | 1473 | 710 | 0.931015613 | BRINP1 |
| 8 | 110,475,000 | 110,625,000 | 1474 | 1025 | 0.093240648 | BRINP1 |
| 8 | 110,550,000 | 110,700,000 | 1475 | 1039 | 0.213482297 | BRINP1 |
| 8 | 110,625,000 | 110,775,000 | 1476 | 418 | 0.671846304 | |
| 8 | 110,700,000 | 110,850,000 | 1477 | 840 | 0.689870869 | |
| 8 | 110,775,000 | 110,925,000 | 1478 | 1497 | 0.552296439 | |
| 8 | 110,850,000 | 111,000,000 | 1479 | 1113 | 0.420999989 | |
| 8 | 110,925,000 | 111,075,000 | 1480 | 867 | 0.292887858 | |
| 8 | 111,000,000 | 111,150,000 | 1481 | 1156 | 0.465133402 | |
| 8 | 111,075,000 | 111,225,000 | 1482 | 1141 | 0.916167109 | |
| 8 | 111,150,000 | 111,300,000 | 1483 | 840 | 0.665353204 | |
| 8 | 111,225,000 | 111,375,000 | 1484 | 800 | -0.080998243 | |
| 8 | 111,300,000 | 111,450,000 | 1485 | 1364 | -1.069150251 | |
| 8 | 111,375,000 | 111,525,000 | 1486 | 1785 | -0.876893988 | |
| 8 | 111,450,000 | 111,600,000 | 1487 | 1623 | -0.843082331 | |
| 8 | 111,525,000 | 111,675,000 | 1488 | 1756 | -1.599937146 | |
| 8 | 111,600,000 | 111,750,000 | 1489 | 1821 | -1.623649865 | CDK5RAP2 |
| 8 | 111,675,000 | 111,825,000 | 1490 | 1634 | -1.302847128 | CDK5RAP2 |
| 8 | 111,750,000 | 111,900,000 | 1491 | 1393 | -0.511072485 | CDK5RAP2 |
| 8 | 111,825,000 | 111,975,000 | 1492 | 1031 | 0.596367963 | CDK5RAP2,MEGF9 |
| 8 | 111,900,000 | 112,050,000 | 1493 | 1108 | 0.852278458 | MEGF9 |
| 8 | 111,975,000 | 112,125,000 | 1494 | 1206 | 0.287540585 | FBXW2,MEGF9,PSMD5,ENSBTAG00000016957,ENSBTAG00000038486 |
| 8 | 112,050,000 | 112,200,000 | 1495 | 1090 | 0.101776931 | FBXW2,PHF19,PSMD5,TRAF1,ENSBTAG00000016957,ENSBTAG00000038486 |
| 8 | 112,125,000 | 112,275,000 | 1496 | 1059 | 1.228257602 | C5,PHF19,TRAF1,ENSBTAG00000016957 |
| 8 | 112,200,000 | 112,350,000 | 1497 | 1149 | -0.654694347 | C5,TRAF1 |
| 8 | 112,275,000 | 112,425,000 | 1498 | 1250 | -1.160674047 | C5,CNTRL |
| 8 | 112,350,000 | 112,500,000 | 1499 | 1095 | 0.164345769 | CNTRL |
| 8 | 112,425,000 | 112,575,000 | 1500 | 914 | 0.229523204 | CNTRL,RAB14 |
| 8 | 112,500,000 | 112,650,000 | 1501 | 913 | -0.312061683 | GSN,RAB14,STOM |
| 8 | 112,575,000 | 112,725,000 | 1502 | 971 | -0.215916456 | GSN,STOM |
| 8 | 112,650,000 | 112,800,000 | 1503 | 940 | 0.034519235 | DCDC2C,STOM |
| 8 | 112,725,000 | 112,875,000 | 1504 | 957 | -0.713768294 | ALLC,COLEC11,DCDC2C |
| 8 | 112,800,000 | 112,950,000 | 1505 | 976 | -0.339302248 | ADI1,ALLC,COLEC11,DCDC2C,RNASEH1,RPS7 |
| 8 | 112,875,000 | 113,025,000 | 1506 | 1174 | 0.208744053 | ADI1,COLEC11,RNASEH1,RPS7,TSSC1,TTC15 |
| 8 | 112,950,000 | 113,100,000 | 1507 | 1104 | 0.197756742 | ADI1,TSSC1,TTC15 |
| 8 | 113,025,000 | 113,175,000 | 1508 | 1009 | -0.022824786 | TSSC1 |
| 8 | 113,100,000 | 113,250,000 | 1509 | 1283 | -0.744726191 | |
| 8 | 113,175,000 | 113,325,000 | 1510 | 1304 | -1.119833164 | |
| 8 | 113,250,000 | 113,384,836 | 1511 | 921 | -0.580550902 | |
| 9 | 0 | 150,000 | 1 | 363 | -3.646658678 | |
| 9 | 75,000 | 225,000 | 2 | 350 | -4.748455654 | |
| 9 | 150,000 | 300,000 | 3 | 321 | -5.977808418 | ENSBTAG00000036273 |
| 9 | 225,000 | 375,000 | 4 | 322 | -6.832090648 | ENSBTAG00000036273,ENSBTAG00000047687 |
| 9 | 300,000 | 450,000 | 5 | 350 | -7.395125286 | ENSBTAG00000047032,ENSBTAG00000047687 |
| 9 | 375,000 | 525,000 | 6 | 317 | -6.368436655 | PTP4A1,ENSBTAG00000047032 |
| 9 | 450,000 | 600,000 | 7 | 255 | -4.354147182 | PTP4A1 |
| 9 | 525,000 | 675,000 | 8 | 235 | -3.988077454 | PHF3 |
| 9 | 600,000 | 750,000 | 9 | 241 | -5.272855197 | PHF3 |

| | | | | | | |
|---|-----------|-----------|----|------|--------------|------|
| 9 | 675,000 | 825,000 | 10 | 408 | -3.958308825 | PHF3 |
| 9 | 750,000 | 900,000 | 11 | 509 | -3.819153932 | |
| 9 | 825,000 | 975,000 | 12 | 413 | -3.692775671 | |
| 9 | 900,000 | 1,050,000 | 13 | 531 | -2.245556429 | |
| 9 | 975,000 | 1,125,000 | 14 | 647 | -1.277549253 | |
| 9 | 1,050,000 | 1,200,000 | 15 | 638 | -1.162278252 | |
| 9 | 1,125,000 | 1,275,000 | 16 | 791 | -0.922083482 | |
| 9 | 1,200,000 | 1,350,000 | 17 | 903 | -0.454605786 | |
| 9 | 1,275,000 | 1,425,000 | 18 | 979 | -0.58591034 | |
| 9 | 1,350,000 | 1,500,000 | 19 | 1022 | -0.157304206 | |
| 9 | 1,425,000 | 1,575,000 | 20 | 1060 | 0.501862947 | |
| 9 | 1,500,000 | 1,650,000 | 21 | 830 | 0.186850083 | |
| 9 | 1,575,000 | 1,725,000 | 22 | 616 | 0.304158999 | |
| 9 | 1,650,000 | 1,800,000 | 23 | 669 | 0.656814202 | |
| 9 | 1,725,000 | 1,875,000 | 24 | 718 | 0.407861402 | |
| 9 | 1,800,000 | 1,950,000 | 25 | 823 | 0.483049398 | |
| 9 | 1,875,000 | 2,025,000 | 26 | 676 | 0.748177349 | |
| 9 | 1,950,000 | 2,100,000 | 27 | 719 | 0.730412042 | |
| 9 | 2,025,000 | 2,175,000 | 28 | 787 | 0.31793626 | |
| 9 | 2,100,000 | 2,250,000 | 29 | 542 | -0.426285903 | |
| 9 | 2,175,000 | 2,325,000 | 30 | 517 | -0.689844961 | |
| 9 | 2,250,000 | 2,400,000 | 31 | 557 | -0.042469774 | |
| 9 | 2,325,000 | 2,475,000 | 32 | 510 | 0.519832365 | |
| 9 | 2,400,000 | 2,550,000 | 33 | 589 | 0.508484312 | |
| 9 | 2,475,000 | 2,625,000 | 34 | 793 | 0.810822485 | |
| 9 | 2,550,000 | 2,700,000 | 35 | 869 | -0.299322134 | |
| 9 | 2,625,000 | 2,775,000 | 36 | 785 | -0.407470672 | |
| 9 | 2,700,000 | 2,850,000 | 37 | 919 | 0.488695314 | |
| 9 | 2,775,000 | 2,925,000 | 38 | 1550 | 0.468120842 | |
| 9 | 2,850,000 | 3,000,000 | 39 | 1374 | 0.289678517 | |
| 9 | 2,925,000 | 3,075,000 | 40 | 549 | 0.145792818 | |
| 9 | 3,000,000 | 3,150,000 | 41 | 821 | 0.526485225 | |
| 9 | 3,075,000 | 3,225,000 | 42 | 917 | 0.551505046 | |
| 9 | 3,150,000 | 3,300,000 | 43 | 635 | 0.611877344 | |
| 9 | 3,225,000 | 3,375,000 | 44 | 632 | -0.32753066 | |
| 9 | 3,300,000 | 3,450,000 | 45 | 749 | -1.338131813 | |
| 9 | 3,375,000 | 3,525,000 | 46 | 962 | -1.085982453 | |
| 9 | 3,450,000 | 3,600,000 | 47 | 1031 | 0.05252452 | |
| 9 | 3,525,000 | 3,675,000 | 48 | 1059 | -0.114574319 | |
| 9 | 3,600,000 | 3,750,000 | 49 | 1092 | -0.683160904 | |
| 9 | 3,675,000 | 3,825,000 | 50 | 935 | 0.919112887 | |
| 9 | 3,750,000 | 3,900,000 | 51 | 805 | 1.128145974 | |
| 9 | 3,825,000 | 3,975,000 | 52 | 987 | 1.079894175 | |
| 9 | 3,900,000 | 4,050,000 | 53 | 949 | -0.116334486 | |
| 9 | 3,975,000 | 4,125,000 | 54 | 683 | -1.545125202 | |
| 9 | 4,050,000 | 4,200,000 | 55 | 1083 | -1.876927087 | |
| 9 | 4,125,000 | 4,275,000 | 56 | 1155 | -1.77720199 | |
| 9 | 4,200,000 | 4,350,000 | 57 | 639 | -1.943328637 | |
| 9 | 4,275,000 | 4,425,000 | 58 | 831 | -3.635406774 | |
| 9 | 4,350,000 | 4,500,000 | 59 | 1052 | -3.905932115 | |
| 9 | 4,425,000 | 4,575,000 | 60 | 1177 | -1.032847987 | |
| 9 | 4,500,000 | 4,650,000 | 61 | 1471 | 0.404188995 | |
| 9 | 4,575,000 | 4,725,000 | 62 | 1501 | 0.396787277 | |

| | | | | | | |
|---|-----------|-----------|-----|------|--------------|------|
| 9 | 4,650,000 | 4,800,000 | 63 | 1313 | 0.763189143 | |
| 9 | 4,725,000 | 4,875,000 | 64 | 1643 | 0.697479549 | |
| 9 | 4,800,000 | 4,950,000 | 65 | 1815 | 0.385473302 | |
| 9 | 4,875,000 | 5,025,000 | 66 | 1070 | -0.106677565 | |
| 9 | 4,950,000 | 5,100,000 | 67 | 1100 | 0.336683793 | |
| 9 | 5,025,000 | 5,175,000 | 68 | 1916 | 0.138523718 | |
| 9 | 5,100,000 | 5,250,000 | 69 | 1714 | 0.414642651 | |
| 9 | 5,175,000 | 5,325,000 | 70 | 876 | 0.847991534 | |
| 9 | 5,250,000 | 5,400,000 | 71 | 743 | 0.271658717 | |
| 9 | 5,325,000 | 5,475,000 | 72 | 887 | -0.012465844 | |
| 9 | 5,400,000 | 5,550,000 | 73 | 732 | 0.172280074 | |
| 9 | 5,475,000 | 5,625,000 | 74 | 966 | 0.221226869 | |
| 9 | 5,550,000 | 5,700,000 | 75 | 1095 | 0.11461806 | |
| 9 | 5,625,000 | 5,775,000 | 76 | 1296 | 0.191332356 | |
| 9 | 5,700,000 | 5,850,000 | 77 | 1621 | 0.503184166 | |
| 9 | 5,775,000 | 5,925,000 | 78 | 1321 | 0.26787273 | |
| 9 | 5,850,000 | 6,000,000 | 79 | 1074 | 0.371347737 | |
| 9 | 5,925,000 | 6,075,000 | 80 | 1419 | 1.22282979 | |
| 9 | 6,000,000 | 6,150,000 | 81 | 1488 | 1.191825304 | |
| 9 | 6,075,000 | 6,225,000 | 82 | 1051 | 0.67283632 | |
| 9 | 6,150,000 | 6,300,000 | 83 | 780 | -0.89137561 | |
| 9 | 6,225,000 | 6,375,000 | 84 | 850 | -1.136066161 | |
| 9 | 6,300,000 | 6,450,000 | 85 | 1244 | -1.960381459 | |
| 9 | 6,375,000 | 6,525,000 | 86 | 1404 | -1.463260292 | |
| 9 | 6,450,000 | 6,600,000 | 87 | 998 | 0.055061099 | |
| 9 | 6,525,000 | 6,675,000 | 88 | 1017 | 0.404352558 | |
| 9 | 6,600,000 | 6,750,000 | 89 | 1751 | 0.825575702 | |
| 9 | 6,675,000 | 6,825,000 | 90 | 1686 | 0.735168939 | |
| 9 | 6,750,000 | 6,900,000 | 91 | 1123 | -0.207454546 | |
| 9 | 6,825,000 | 6,975,000 | 92 | 960 | -1.002123174 | |
| 9 | 6,900,000 | 7,050,000 | 93 | 1368 | -0.535000166 | |
| 9 | 6,975,000 | 7,125,000 | 94 | 1344 | 0.324874463 | |
| 9 | 7,050,000 | 7,200,000 | 95 | 915 | 0.879475791 | |
| 9 | 7,125,000 | 7,275,000 | 96 | 1366 | -0.548179421 | |
| 9 | 7,200,000 | 7,350,000 | 97 | 1586 | -0.413509795 | |
| 9 | 7,275,000 | 7,425,000 | 98 | 1142 | -0.730940775 | |
| 9 | 7,350,000 | 7,500,000 | 99 | 886 | -1.717604595 | |
| 9 | 7,425,000 | 7,575,000 | 100 | 798 | 0.720612559 | |
| 9 | 7,500,000 | 7,650,000 | 101 | 652 | 1.363641998 | |
| 9 | 7,575,000 | 7,725,000 | 102 | 722 | 1.110925782 | |
| 9 | 7,650,000 | 7,800,000 | 103 | 630 | 0.605144347 | |
| 9 | 7,725,000 | 7,875,000 | 104 | 531 | 0.068935251 | |
| 9 | 7,800,000 | 7,950,000 | 105 | 1045 | -0.691209505 | BAI3 |
| 9 | 7,875,000 | 8,025,000 | 106 | 1528 | -0.414892635 | BAI3 |
| 9 | 7,950,000 | 8,100,000 | 107 | 1357 | -0.482377881 | BAI3 |
| 9 | 8,025,000 | 8,175,000 | 108 | 1036 | -1.05885569 | BAI3 |
| 9 | 8,100,000 | 8,250,000 | 109 | 1046 | 0.18644533 | BAI3 |
| 9 | 8,175,000 | 8,325,000 | 110 | 883 | 0.820486345 | BAI3 |
| 9 | 8,250,000 | 8,400,000 | 111 | 855 | 0.563803284 | BAI3 |
| 9 | 8,325,000 | 8,475,000 | 112 | 900 | -0.688826832 | BAI3 |
| 9 | 8,400,000 | 8,550,000 | 113 | 575 | -1.611168716 | BAI3 |
| 9 | 8,475,000 | 8,625,000 | 114 | 979 | 0.079080862 | |
| 9 | 8,550,000 | 8,700,000 | 115 | 1591 | 0.177070495 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------------|
| 9 | 8,625,000 | 8,775,000 | 116 | 1529 | 0.494579016 | |
| 9 | 8,700,000 | 8,850,000 | 117 | 1264 | 0.646053567 | LMBRD1 |
| 9 | 8,775,000 | 8,925,000 | 118 | 1043 | 0.586519693 | LMBRD1 |
| 9 | 8,850,000 | 9,000,000 | 119 | 1369 | 0.855844714 | LMBRD1 |
| 9 | 8,925,000 | 9,075,000 | 120 | 1403 | 0.246136126 | LMBRD1 |
| 9 | 9,000,000 | 9,150,000 | 121 | 853 | -0.207584031 | |
| 9 | 9,075,000 | 9,225,000 | 122 | 660 | 0.635668769 | |
| 9 | 9,150,000 | 9,300,000 | 123 | 945 | 0.478853147 | |
| 9 | 9,225,000 | 9,375,000 | 124 | 1091 | 0.696918649 | |
| 9 | 9,300,000 | 9,450,000 | 125 | 821 | 1.078383903 | COL19A1 |
| 9 | 9,375,000 | 9,525,000 | 126 | 825 | 1.057203899 | COL19A1,COL9A1 |
| 9 | 9,450,000 | 9,600,000 | 127 | 1236 | -0.220670863 | COL19A1,COL9A1 |
| 9 | 9,525,000 | 9,675,000 | 128 | 1271 | -2.092848499 | COL9A1 |
| 9 | 9,600,000 | 9,750,000 | 129 | 1055 | 0.098099249 | COL9A1,ENSBTAG00000045999 |
| 9 | 9,675,000 | 9,825,000 | 130 | 1073 | 0.544189839 | FAM135A,ENSBTAG00000045999 |
| 9 | 9,750,000 | 9,900,000 | 131 | 1105 | 0.453221807 | FAM135A |
| 9 | 9,825,000 | 9,975,000 | 132 | 987 | 0.038425977 | FAM135A,MGC137021,ENSBTAG00000035076 |
| 9 | 9,900,000 | 10,050,000 | 133 | 624 | 0.213951944 | MGC137021,SMAP1,ENSBTAG00000035076 |
| 9 | 9,975,000 | 10,125,000 | 134 | 638 | 0.918458223 | SMAP1 |
| 9 | 10,050,000 | 10,200,000 | 135 | 682 | 0.8605212 | SMAP1 |
| 9 | 10,125,000 | 10,275,000 | 136 | 565 | 0.944118597 | B3GAT2,SMAP1 |
| 9 | 10,200,000 | 10,350,000 | 137 | 822 | 0.873804263 | B3GAT2,SMAP1 |
| 9 | 10,275,000 | 10,425,000 | 138 | 1098 | -0.065272346 | B3GAT2 |
| 9 | 10,350,000 | 10,500,000 | 139 | 1488 | 0.389537612 | |
| 9 | 10,425,000 | 10,575,000 | 140 | 1707 | 0.159948363 | |
| 9 | 10,500,000 | 10,650,000 | 141 | 1364 | -0.035700331 | OGFRL1 |
| 9 | 10,575,000 | 10,725,000 | 142 | 816 | 0.510588129 | OGFRL1 |
| 9 | 10,650,000 | 10,800,000 | 143 | 441 | -0.368889676 | |
| 9 | 10,725,000 | 10,875,000 | 144 | 626 | 0.268604189 | |
| 9 | 10,800,000 | 10,950,000 | 145 | 1031 | 0.204856387 | |
| 9 | 10,875,000 | 11,025,000 | 146 | 989 | -1.839810846 | |
| 9 | 10,950,000 | 11,100,000 | 147 | 925 | -3.151229274 | |
| 9 | 11,025,000 | 11,175,000 | 148 | 1205 | -0.015268594 | |
| 9 | 11,100,000 | 11,250,000 | 149 | 1068 | 1.002119959 | |
| 9 | 11,175,000 | 11,325,000 | 150 | 619 | -0.195828073 | |
| 9 | 11,250,000 | 11,400,000 | 151 | 505 | -0.251990346 | |
| 9 | 11,325,000 | 11,475,000 | 152 | 759 | 0.042806504 | |
| 9 | 11,400,000 | 11,550,000 | 153 | 901 | -0.198412899 | |
| 9 | 11,475,000 | 11,625,000 | 154 | 875 | 0.317042672 | |
| 9 | 11,550,000 | 11,700,000 | 155 | 1096 | 0.480629592 | RIMS1 |
| 9 | 11,625,000 | 11,775,000 | 156 | 1251 | 0.263983023 | RIMS1 |
| 9 | 11,700,000 | 11,850,000 | 157 | 1287 | 0.470153075 | RIMS1 |
| 9 | 11,775,000 | 11,925,000 | 158 | 1200 | 0.506512219 | RIMS1 |
| 9 | 11,850,000 | 12,000,000 | 159 | 1000 | -0.493062324 | RIMS1 |
| 9 | 11,925,000 | 12,075,000 | 160 | 1151 | -0.034575535 | RIMS1 |
| 9 | 12,000,000 | 12,150,000 | 161 | 1131 | -0.176865331 | |
| 9 | 12,075,000 | 12,225,000 | 162 | 1060 | -0.652612598 | |
| 9 | 12,150,000 | 12,300,000 | 163 | 866 | -0.162244814 | |
| 9 | 12,225,000 | 12,375,000 | 164 | 579 | 0.318440478 | |
| 9 | 12,300,000 | 12,450,000 | 165 | 740 | 0.435981846 | |
| 9 | 12,375,000 | 12,525,000 | 166 | 789 | 0.575451741 | |
| 9 | 12,450,000 | 12,600,000 | 167 | 704 | 0.533400242 | |
| 9 | 12,525,000 | 12,675,000 | 168 | 726 | 0.046656641 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------------------|
| 9 | 12,600,000 | 12,750,000 | 169 | 845 | -0.334638309 | KCNQ5 |
| 9 | 12,675,000 | 12,825,000 | 170 | 769 | -0.238597709 | KCNQ5 |
| 9 | 12,750,000 | 12,900,000 | 171 | 984 | 0.646740185 | KCNQ5 |
| 9 | 12,825,000 | 12,975,000 | 172 | 1305 | 0.745368551 | KCNQ5,KHDC3L |
| 9 | 12,900,000 | 13,050,000 | 173 | 899 | 0.516839527 | DDX43,KHDC3L,OOEP |
| 9 | 12,975,000 | 13,125,000 | 174 | 956 | 0.544804313 | DDX43,OOEP |
| 9 | 13,050,000 | 13,200,000 | 175 | 933 | 0.702816386 | MB21D1,MTO1 |
| 9 | 13,125,000 | 13,275,000 | 176 | 390 | 0.518337381 | EEF1A1,MB21D1,MTO1 |
| 9 | 13,200,000 | 13,350,000 | 177 | 412 | 0.633062056 | EEF1A1,MTO1,SLC17A5 |
| 9 | 13,275,000 | 13,425,000 | 178 | 452 | 0.688031565 | CD109,SLC17A5 |
| 9 | 13,350,000 | 13,500,000 | 179 | 622 | 0.026020819 | CD109,SLC17A5 |
| 9 | 13,425,000 | 13,575,000 | 180 | 975 | 0.247253738 | CD109 |
| 9 | 13,500,000 | 13,650,000 | 181 | 1039 | 0.293541921 | CD109 |
| 9 | 13,575,000 | 13,725,000 | 182 | 836 | 0.60484351 | |
| 9 | 13,650,000 | 13,800,000 | 183 | 951 | 1.223874542 | |
| 9 | 13,725,000 | 13,875,000 | 184 | 1340 | 1.097076932 | |
| 9 | 13,800,000 | 13,950,000 | 185 | 1412 | 0.605954948 | |
| 9 | 13,875,000 | 14,025,000 | 186 | 1234 | 0.428486052 | |
| 9 | 13,950,000 | 14,100,000 | 187 | 1071 | 0.506110467 | |
| 9 | 14,025,000 | 14,175,000 | 188 | 939 | -1.493028196 | |
| 9 | 14,100,000 | 14,250,000 | 189 | 965 | -1.653088122 | |
| 9 | 14,175,000 | 14,325,000 | 190 | 1112 | 0.073201889 | |
| 9 | 14,250,000 | 14,400,000 | 191 | 998 | 0.292953735 | |
| 9 | 14,325,000 | 14,475,000 | 192 | 978 | 0.059782208 | |
| 9 | 14,400,000 | 14,550,000 | 193 | 903 | 0.201307038 | |
| 9 | 14,475,000 | 14,625,000 | 194 | 521 | -0.001166455 | |
| 9 | 14,550,000 | 14,700,000 | 195 | 477 | 0.041247441 | |
| 9 | 14,625,000 | 14,775,000 | 196 | 529 | -0.15590476 | |
| 9 | 14,700,000 | 14,850,000 | 197 | 592 | -0.612252081 | |
| 9 | 14,775,000 | 14,925,000 | 198 | 839 | -0.033548263 | COL12A1 |
| 9 | 14,850,000 | 15,000,000 | 199 | 1050 | 0.533507551 | COL12A1 |
| 9 | 14,925,000 | 15,075,000 | 200 | 1279 | 0.580678267 | COL12A1,COX7A2,TMEM30A |
| 9 | 15,000,000 | 15,150,000 | 201 | 1037 | 0.588670273 | COX7A2,FILIP1,TMEM30A |
| 9 | 15,075,000 | 15,225,000 | 202 | 944 | 0.47314543 | FILIP1,TMEM30A |
| 9 | 15,150,000 | 15,300,000 | 203 | 1161 | 0.05363036 | FILIP1 |
| 9 | 15,225,000 | 15,375,000 | 204 | 1168 | 0.511880894 | FILIP1 |
| 9 | 15,300,000 | 15,450,000 | 205 | 1281 | 0.073626529 | ENSBTAG00000032382 |
| 9 | 15,375,000 | 15,525,000 | 206 | 872 | -1.390399561 | SENTP6,ENSBTAG00000032382 |
| 9 | 15,450,000 | 15,600,000 | 207 | 421 | -2.512829613 | SENTP6 |
| 9 | 15,525,000 | 15,675,000 | 208 | 705 | -5.15279276 | MYO6,SENTP6 |
| 9 | 15,600,000 | 15,750,000 | 209 | 1393 | -1.454634389 | MYO6 |
| 9 | 15,675,000 | 15,825,000 | 210 | 1502 | -0.575716369 | MYO6,ENSBTAG00000045726 |
| 9 | 15,750,000 | 15,900,000 | 211 | 1419 | -1.244293985 | IMPG1,MYO6,ENSBTAG00000045726 |
| 9 | 15,825,000 | 15,975,000 | 212 | 1619 | 0.240609981 | IMPG1 |
| 9 | 15,900,000 | 16,050,000 | 213 | 1408 | 0.448691255 | |
| 9 | 15,975,000 | 16,125,000 | 214 | 1351 | 0.125727855 | |
| 9 | 16,050,000 | 16,200,000 | 215 | 1746 | -0.261165489 | |
| 9 | 16,125,000 | 16,275,000 | 216 | 1905 | -0.235377088 | |
| 9 | 16,200,000 | 16,350,000 | 217 | 1757 | -0.08971508 | ENSBTAG00000016391 |
| 9 | 16,275,000 | 16,425,000 | 218 | 1803 | -0.547896287 | ENSBTAG00000016391 |
| 9 | 16,350,000 | 16,500,000 | 219 | 1531 | -0.184626091 | |
| 9 | 16,425,000 | 16,575,000 | 220 | 1264 | 0.406388807 | |
| 9 | 16,500,000 | 16,650,000 | 221 | 1206 | 0.505039916 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-------------------|
| 9 | 16,575,000 | 16,725,000 | 222 | 905 | 0.449053529 | |
| 9 | 16,650,000 | 16,800,000 | 223 | 1101 | 0.380141323 | |
| 9 | 16,725,000 | 16,875,000 | 224 | 1252 | 0.146437377 | |
| 9 | 16,800,000 | 16,950,000 | 225 | 1406 | 0.648766712 | |
| 9 | 16,875,000 | 17,025,000 | 226 | 1487 | 1.088216322 | |
| 9 | 16,950,000 | 17,100,000 | 227 | 1032 | 0.924680471 | |
| 9 | 17,025,000 | 17,175,000 | 228 | 930 | 0.826596537 | |
| 9 | 17,100,000 | 17,250,000 | 229 | 1509 | 1.142342237 | |
| 9 | 17,175,000 | 17,325,000 | 230 | 1536 | 1.243438875 | HTR1B |
| 9 | 17,250,000 | 17,400,000 | 231 | 1143 | 0.930505914 | HTR1B |
| 9 | 17,325,000 | 17,475,000 | 232 | 1109 | 0.15150546 | |
| 9 | 17,400,000 | 17,550,000 | 233 | 785 | -0.594554955 | |
| 9 | 17,475,000 | 17,625,000 | 234 | 857 | 0.701178922 | |
| 9 | 17,550,000 | 17,700,000 | 235 | 1292 | 1.121785905 | |
| 9 | 17,625,000 | 17,775,000 | 236 | 1174 | 0.874145214 | |
| 9 | 17,700,000 | 17,850,000 | 237 | 1387 | 0.760206191 | |
| 9 | 17,775,000 | 17,925,000 | 238 | 1691 | 0.979485657 | |
| 9 | 17,850,000 | 18,000,000 | 239 | 1567 | 1.012205733 | |
| 9 | 17,925,000 | 18,075,000 | 240 | 1471 | 1.164259936 | |
| 9 | 18,000,000 | 18,150,000 | 241 | 1357 | 1.02691786 | |
| 9 | 18,075,000 | 18,225,000 | 242 | 881 | 0.574541131 | |
| 9 | 18,150,000 | 18,300,000 | 243 | 760 | 0.815672373 | |
| 9 | 18,225,000 | 18,375,000 | 244 | 939 | -0.388971712 | |
| 9 | 18,300,000 | 18,450,000 | 245 | 1036 | -0.75065773 | |
| 9 | 18,375,000 | 18,525,000 | 246 | 1142 | 0.18622526 | |
| 9 | 18,450,000 | 18,600,000 | 247 | 673 | 0.321825142 | |
| 9 | 18,525,000 | 18,675,000 | 248 | 555 | -1.821321985 | |
| 9 | 18,600,000 | 18,750,000 | 249 | 615 | -1.886560286 | IRAK1BP1,PHIP |
| 9 | 18,675,000 | 18,825,000 | 250 | 471 | -1.235802875 | IRAK1BP1,PHIP |
| 9 | 18,750,000 | 18,900,000 | 251 | 429 | -2.074953784 | PHIP |
| 9 | 18,825,000 | 18,975,000 | 252 | 524 | -0.501141444 | PHIP |
| 9 | 18,900,000 | 19,050,000 | 253 | 763 | 0.532881185 | HMG3 |
| 9 | 18,975,000 | 19,125,000 | 254 | 1152 | 0.475221483 | HMG3 |
| 9 | 19,050,000 | 19,200,000 | 255 | 1220 | 0.573710411 | |
| 9 | 19,125,000 | 19,275,000 | 256 | 801 | 0.050299402 | |
| 9 | 19,200,000 | 19,350,000 | 257 | 887 | -0.574060318 | LCA5 |
| 9 | 19,275,000 | 19,425,000 | 258 | 1348 | -0.000302763 | LCA5 |
| 9 | 19,350,000 | 19,500,000 | 259 | 1237 | 0.251015974 | LCA5 |
| 9 | 19,425,000 | 19,575,000 | 260 | 831 | -1.490345099 | SH3BGRL2 |
| 9 | 19,500,000 | 19,650,000 | 261 | 556 | -1.717221594 | SH3BGRL2 |
| 9 | 19,575,000 | 19,725,000 | 262 | 746 | 0.028300811 | |
| 9 | 19,650,000 | 19,800,000 | 263 | 978 | 0.326530003 | |
| 9 | 19,725,000 | 19,875,000 | 264 | 682 | 1.053746427 | ELOVL4 |
| 9 | 19,800,000 | 19,950,000 | 265 | 560 | 1.259422962 | ELOVL4,TTK |
| 9 | 19,875,000 | 20,025,000 | 266 | 429 | 1.226035819 | ELOVL4,TTK |
| 9 | 19,950,000 | 20,100,000 | 267 | 211 | 1.067471615 | BCKDHB,RPA3OS,TTK |
| 9 | 20,025,000 | 20,175,000 | 268 | 410 | 0.040820191 | BCKDHB,RPA3OS |
| 9 | 20,100,000 | 20,250,000 | 269 | 505 | -1.126116189 | BCKDHB |
| 9 | 20,175,000 | 20,325,000 | 270 | 462 | -3.933045066 | BCKDHB |
| 9 | 20,250,000 | 20,400,000 | 271 | 589 | -3.782543672 | BCKDHB |
| 9 | 20,325,000 | 20,475,000 | 272 | 724 | -2.347378443 | BCKDHB |
| 9 | 20,400,000 | 20,550,000 | 273 | 497 | -2.428486461 | |
| 9 | 20,475,000 | 20,625,000 | 274 | 344 | -1.706931229 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 20,550,000 | 20,700,000 | 275 | 517 | -0.531411847 | |
| 9 | 20,625,000 | 20,775,000 | 276 | 906 | -0.792981816 | |
| 9 | 20,700,000 | 20,850,000 | 277 | 819 | -0.874975584 | |
| 9 | 20,775,000 | 20,925,000 | 278 | 575 | -1.253189094 | |
| 9 | 20,850,000 | 21,000,000 | 279 | 941 | -0.25864425 | |
| 9 | 20,925,000 | 21,075,000 | 280 | 1233 | 0.977592395 | |
| 9 | 21,000,000 | 21,150,000 | 281 | 836 | 0.940192493 | |
| 9 | 21,075,000 | 21,225,000 | 282 | 413 | 0.038815812 | |
| 9 | 21,150,000 | 21,300,000 | 283 | 460 | 0.012563162 | |
| 9 | 21,225,000 | 21,375,000 | 284 | 483 | 0.294022964 | |
| 9 | 21,300,000 | 21,450,000 | 285 | 430 | 0.975438555 | |
| 9 | 21,375,000 | 21,525,000 | 286 | 318 | -0.315823367 | |
| 9 | 21,450,000 | 21,600,000 | 287 | 284 | -0.31259797 | |
| 9 | 21,525,000 | 21,675,000 | 288 | 503 | -1.732569204 | |
| 9 | 21,600,000 | 21,750,000 | 289 | 697 | -2.668238802 | |
| 9 | 21,675,000 | 21,825,000 | 290 | 482 | -2.332252017 | FAM46A |
| 9 | 21,750,000 | 21,900,000 | 291 | 367 | -2.289486208 | FAM46A |
| 9 | 21,825,000 | 21,975,000 | 292 | 395 | -1.223006584 | |
| 9 | 21,900,000 | 22,050,000 | 293 | 467 | 0.042106025 | |
| 9 | 21,975,000 | 22,125,000 | 294 | 648 | 0.4224017 | |
| 9 | 22,050,000 | 22,200,000 | 295 | 879 | 0.743993575 | |
| 9 | 22,125,000 | 22,275,000 | 296 | 993 | 0.412500294 | IBTK |
| 9 | 22,200,000 | 22,350,000 | 297 | 843 | 0.361699389 | IBTK |
| 9 | 22,275,000 | 22,425,000 | 298 | 1205 | 0.283398953 | IBTK |
| 9 | 22,350,000 | 22,500,000 | 299 | 1162 | 0.180317547 | TPBG |
| 9 | 22,425,000 | 22,575,000 | 300 | 462 | -0.017428207 | TPBG |
| 9 | 22,500,000 | 22,650,000 | 301 | 750 | -1.92208263 | |
| 9 | 22,575,000 | 22,725,000 | 302 | 796 | -0.980027111 | |
| 9 | 22,650,000 | 22,800,000 | 303 | 595 | 1.008959701 | |
| 9 | 22,725,000 | 22,875,000 | 304 | 910 | 0.794144081 | |
| 9 | 22,800,000 | 22,950,000 | 305 | 1108 | 0.605816265 | |
| 9 | 22,875,000 | 23,025,000 | 306 | 1026 | 0.729847683 | |
| 9 | 22,950,000 | 23,100,000 | 307 | 881 | 0.741209549 | UBE3D |
| 9 | 23,025,000 | 23,175,000 | 308 | 687 | 0.852739239 | UBE3D |
| 9 | 23,100,000 | 23,250,000 | 309 | 491 | 1.106319348 | UBE3D |
| 9 | 23,175,000 | 23,325,000 | 310 | 869 | 1.124207293 | DOPEY1,UBE3D |
| 9 | 23,250,000 | 23,400,000 | 311 | 1058 | 1.024223679 | DOPEY1,PGM3,RWDD2A |
| 9 | 23,325,000 | 23,475,000 | 312 | 893 | -0.025781428 | DOPEY1,ME1,PGM3,RWDD2A |
| 9 | 23,400,000 | 23,550,000 | 313 | 865 | -1.01553707 | ME1 |
| 9 | 23,475,000 | 23,625,000 | 314 | 921 | -0.348414699 | ME1 |
| 9 | 23,550,000 | 23,700,000 | 315 | 899 | 0.782800686 | ME1 |
| 9 | 23,625,000 | 23,775,000 | 316 | 1015 | 0.060871488 | PRSS35,SNAP91 |
| 9 | 23,700,000 | 23,850,000 | 317 | 1041 | -0.387538426 | PRSS35,SNAP91,ENSBTAG00000046593,ENSBTAG000047118 |
| 9 | 23,775,000 | 23,925,000 | 318 | 855 | -0.249557466 | SNAP91,ENSBTAG00000046593,ENSBTAG00000047118 |
| 9 | 23,850,000 | 24,000,000 | 319 | 928 | -0.740288958 | SNAP91 |
| 9 | 23,925,000 | 24,075,000 | 320 | 792 | -0.483020421 | C6orf58,ENSBTAG00000003921 |
| 9 | 24,000,000 | 24,150,000 | 321 | 680 | 0.683766821 | C6orf58,KIAA0408,ENSBTAG00000003921 |
| 9 | 24,075,000 | 24,225,000 | 322 | 827 | 0.574670993 | KIAA0408,ENSBTAG00000003921 |
| 9 | 24,150,000 | 24,300,000 | 323 | 733 | 0.494594795 | ECHDC1,RNF146B |
| 9 | 24,225,000 | 24,375,000 | 324 | 722 | 0.818518497 | ECHDC1,RNF146B,RSPO3 |
| 9 | 24,300,000 | 24,450,000 | 325 | 568 | 0.296738915 | RNF146B,RSPO3 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---------------------------------------|
| 9 | 24,375,000 | 24,525,000 | 326 | 400 | -2.07569317 | RSPO3 |
| 9 | 24,450,000 | 24,600,000 | 327 | 549 | -1.236742784 | LAPTM4B,RSPO3 |
| 9 | 24,525,000 | 24,675,000 | 328 | 556 | 0.109856379 | LAPTM4B |
| 9 | 24,600,000 | 24,750,000 | 329 | 472 | -0.377043729 | |
| 9 | 24,675,000 | 24,825,000 | 330 | 403 | -0.930341035 | |
| 9 | 24,750,000 | 24,900,000 | 331 | 349 | -0.780866187 | |
| 9 | 24,825,000 | 24,975,000 | 332 | 503 | -1.101982561 | |
| 9 | 24,900,000 | 25,050,000 | 333 | 811 | -0.816955084 | |
| 9 | 24,975,000 | 25,125,000 | 334 | 663 | -0.024014636 | |
| 9 | 25,050,000 | 25,200,000 | 335 | 405 | 0.642601135 | |
| 9 | 25,125,000 | 25,275,000 | 336 | 391 | 0.175164282 | C6ORF173 |
| 9 | 25,200,000 | 25,350,000 | 337 | 510 | -0.501887672 | C6ORF173 |
| 9 | 25,275,000 | 25,425,000 | 338 | 469 | -0.620514683 | C6ORF173 |
| 9 | 25,350,000 | 25,500,000 | 339 | 471 | -0.05453006 | |
| 9 | 25,425,000 | 25,575,000 | 340 | 475 | 0.237590187 | |
| 9 | 25,500,000 | 25,650,000 | 341 | 268 | 0.220545532 | HINT3,TRMT11 |
| 9 | 25,575,000 | 25,725,000 | 342 | 536 | 0.455405999 | HINT3,NCOA7,TRMT11,ENSBTAG00000046503 |
| 9 | 25,650,000 | 25,800,000 | 343 | 905 | 0.447958161 | HINT3,NCOA7,ENSBTAG00000046503 |
| 9 | 25,725,000 | 25,875,000 | 344 | 1000 | 0.131843554 | HEY2,ENSBTAG00000046503 |
| 9 | 25,800,000 | 25,950,000 | 345 | 698 | -0.040201454 | HEY2 |
| 9 | 25,875,000 | 26,025,000 | 346 | 353 | 0.704999368 | HEY2 |
| 9 | 25,950,000 | 26,100,000 | 347 | 396 | 0.665372638 | |
| 9 | 26,025,000 | 26,175,000 | 348 | 596 | 0.187073453 | |
| 9 | 26,100,000 | 26,250,000 | 349 | 644 | 0.313654238 | |
| 9 | 26,175,000 | 26,325,000 | 350 | 767 | 1.212150748 | HDDC2,TPD52L1 |
| 9 | 26,250,000 | 26,400,000 | 351 | 1222 | 1.16216828 | HDDC2,TPD52L1 |
| 9 | 26,325,000 | 26,475,000 | 352 | 1148 | 0.868987942 | RNF217,TPD52L1 |
| 9 | 26,400,000 | 26,550,000 | 353 | 980 | 0.520324443 | RNF217,TPD52L1 |
| 9 | 26,475,000 | 26,625,000 | 354 | 915 | -0.202767101 | RNF217 |
| 9 | 26,550,000 | 26,700,000 | 355 | 635 | -1.206263798 | ENSBTAG00000021667 |
| 9 | 26,625,000 | 26,775,000 | 356 | 825 | 0.379507365 | ENSBTAG00000021667 |
| 9 | 26,700,000 | 26,850,000 | 357 | 871 | 1.071876695 | ENSBTAG00000021667 |
| 9 | 26,775,000 | 26,925,000 | 358 | 742 | 0.978232123 | ENSBTAG00000021667 |
| 9 | 26,850,000 | 27,000,000 | 359 | 819 | -0.24521249 | ENSBTAG00000021667 |
| 9 | 26,925,000 | 27,075,000 | 360 | 839 | -0.925639124 | |
| 9 | 27,000,000 | 27,150,000 | 361 | 864 | 0.065434745 | |
| 9 | 27,075,000 | 27,225,000 | 362 | 785 | -0.325887405 | |
| 9 | 27,150,000 | 27,300,000 | 363 | 518 | -1.722557238 | ENSBTAG00000033195 |
| 9 | 27,225,000 | 27,375,000 | 364 | 482 | -0.378770583 | ENSBTAG00000033195 |
| 9 | 27,300,000 | 27,450,000 | 365 | 574 | 0.199833391 | ENSBTAG00000033195 |
| 9 | 27,375,000 | 27,525,000 | 366 | 805 | 0.437740309 | |
| 9 | 27,450,000 | 27,600,000 | 367 | 1228 | 0.938697727 | |
| 9 | 27,525,000 | 27,675,000 | 368 | 1196 | 0.93658022 | ENSBTAG00000047309 |
| 9 | 27,600,000 | 27,750,000 | 369 | 1211 | 1.000153102 | ENSBTAG00000047309 |
| 9 | 27,675,000 | 27,825,000 | 370 | 1081 | 0.988924943 | |
| 9 | 27,750,000 | 27,900,000 | 371 | 974 | 1.029952232 | |
| 9 | 27,825,000 | 27,975,000 | 372 | 1026 | 0.7016651 | |
| 9 | 27,900,000 | 28,050,000 | 373 | 896 | 0.088348846 | |
| 9 | 27,975,000 | 28,125,000 | 374 | 870 | 0.056412196 | TRDN |
| 9 | 28,050,000 | 28,200,000 | 375 | 890 | -0.224859314 | TRDN |
| 9 | 28,125,000 | 28,275,000 | 376 | 1083 | -0.849555953 | TRDN |
| 9 | 28,200,000 | 28,350,000 | 377 | 1026 | -1.323178792 | TRDN |
| 9 | 28,275,000 | 28,425,000 | 378 | 862 | -0.98165253 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------|
| 9 | 28,350,000 | 28,500,000 | 379 | 567 | -0.54509129 | |
| 9 | 28,425,000 | 28,575,000 | 380 | 318 | -4.567002089 | ENSBTAG00000046232 |
| 9 | 28,500,000 | 28,650,000 | 381 | 333 | -5.209731724 | CLVS2,ENSBTAG00000046232 |
| 9 | 28,575,000 | 28,725,000 | 382 | 542 | 0.762433464 | CLVS2 |
| 9 | 28,650,000 | 28,800,000 | 383 | 741 | 1.171133769 | CLVS2 |
| 9 | 28,725,000 | 28,875,000 | 384 | 530 | 0.71308254 | FABP7,SMPDL3A |
| 9 | 28,800,000 | 28,950,000 | 385 | 658 | 0.101038001 | FABP7,PKIB,SMPDL3A |
| 9 | 28,875,000 | 29,025,000 | 386 | 1182 | 0.611930742 | PKIB |
| 9 | 28,950,000 | 29,100,000 | 387 | 1214 | 1.017755481 | PKIB,SERINC1 |
| 9 | 29,025,000 | 29,175,000 | 388 | 702 | 0.566026939 | HSF2,SERINC1 |
| 9 | 29,100,000 | 29,250,000 | 389 | 410 | -0.148704888 | HSF2,SERINC1 |
| 9 | 29,175,000 | 29,325,000 | 390 | 529 | 0.702877953 | |
| 9 | 29,250,000 | 29,400,000 | 391 | 662 | 0.844838859 | |
| 9 | 29,325,000 | 29,475,000 | 392 | 483 | -0.266257697 | |
| 9 | 29,400,000 | 29,550,000 | 393 | 326 | -0.314534567 | |
| 9 | 29,475,000 | 29,625,000 | 394 | 608 | 1.387071972 | |
| 9 | 29,550,000 | 29,700,000 | 395 | 740 | 1.493530905 | |
| 9 | 29,625,000 | 29,775,000 | 396 | 623 | 1.154944735 | ENSBTAG00000011735 |
| 9 | 29,700,000 | 29,850,000 | 397 | 653 | 0.51681406 | ENSBTAG00000011735 |
| 9 | 29,775,000 | 29,925,000 | 398 | 804 | 0.750307162 | |
| 9 | 29,850,000 | 30,000,000 | 399 | 927 | 0.47479014 | |
| 9 | 29,925,000 | 30,075,000 | 400 | 761 | -0.216162672 | |
| 9 | 30,000,000 | 30,150,000 | 401 | 468 | -0.241511462 | GJA1 |
| 9 | 30,075,000 | 30,225,000 | 402 | 557 | 1.01482969 | GJA1,TBC1D32 |
| 9 | 30,150,000 | 30,300,000 | 403 | 945 | 1.552976869 | TBC1D32 |
| 9 | 30,225,000 | 30,375,000 | 404 | 715 | 1.549183461 | TBC1D32 |
| 9 | 30,300,000 | 30,450,000 | 405 | 462 | 1.406811902 | TBC1D32 |
| 9 | 30,375,000 | 30,525,000 | 406 | 948 | -0.063207118 | TBC1D32 |
| 9 | 30,450,000 | 30,600,000 | 407 | 905 | -0.523245353 | |
| 9 | 30,525,000 | 30,675,000 | 408 | 734 | 0.400896166 | |
| 9 | 30,600,000 | 30,750,000 | 409 | 765 | 0.784716454 | |
| 9 | 30,675,000 | 30,825,000 | 410 | 472 | 1.182299237 | |
| 9 | 30,750,000 | 30,900,000 | 411 | 572 | 1.052860116 | |
| 9 | 30,825,000 | 30,975,000 | 412 | 972 | 0.717253964 | |
| 9 | 30,900,000 | 31,050,000 | 413 | 1114 | 0.286775237 | |
| 9 | 30,975,000 | 31,125,000 | 414 | 1106 | -2.313908585 | |
| 9 | 31,050,000 | 31,200,000 | 415 | 1174 | -2.674083215 | |
| 9 | 31,125,000 | 31,275,000 | 416 | 1249 | -0.221962706 | |
| 9 | 31,200,000 | 31,350,000 | 417 | 1111 | -0.552805477 | |
| 9 | 31,275,000 | 31,425,000 | 418 | 1095 | -0.71458846 | |
| 9 | 31,350,000 | 31,500,000 | 419 | 793 | 0.038966741 | |
| 9 | 31,425,000 | 31,575,000 | 420 | 343 | 0.28094592 | |
| 9 | 31,500,000 | 31,650,000 | 421 | 337 | 0.570041394 | |
| 9 | 31,575,000 | 31,725,000 | 422 | 344 | 0.625566894 | |
| 9 | 31,650,000 | 31,800,000 | 423 | 504 | 0.388155556 | |
| 9 | 31,725,000 | 31,875,000 | 424 | 597 | 0.522773883 | |
| 9 | 31,800,000 | 31,950,000 | 425 | 847 | 0.977611909 | |
| 9 | 31,875,000 | 32,025,000 | 426 | 1090 | 1.002301494 | |
| 9 | 31,950,000 | 32,100,000 | 427 | 861 | 0.830633593 | MAN1A1 |
| 9 | 32,025,000 | 32,175,000 | 428 | 817 | 0.234204005 | MAN1A1 |
| 9 | 32,100,000 | 32,250,000 | 429 | 1053 | -1.016595252 | MAN1A1 |
| 9 | 32,175,000 | 32,325,000 | 430 | 1438 | -0.320384688 | MAN1A1 |
| 9 | 32,250,000 | 32,400,000 | 431 | 1638 | -0.144655636 | MAN1A1 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 32,325,000 | 32,475,000 | 432 | 1546 | -0.871910247 | FAM184A |
| 9 | 32,400,000 | 32,550,000 | 433 | 976 | -1.060151272 | ASF1A,FAM184A,MCM9 |
| 9 | 32,475,000 | 32,625,000 | 434 | 363 | -0.819698199 | ASF1A,FAM184A,MCM9 |
| 9 | 32,550,000 | 32,700,000 | 435 | 606 | 0.089107853 | ASF1A,MCM9 |
| 9 | 32,625,000 | 32,775,000 | 436 | 612 | 0.423761644 | |
| 9 | 32,700,000 | 32,850,000 | 437 | 374 | -1.799559871 | CEP85L,PLN,ENSBTAG00000047280 |
| 9 | 32,775,000 | 32,925,000 | 438 | 663 | -1.411885 | CEP85L,PLN,ENSBTAG00000047280 |
| 9 | 32,850,000 | 33,000,000 | 439 | 977 | 0.304360344 | CEP85L |
| 9 | 32,925,000 | 33,075,000 | 440 | 1111 | -0.849454948 | SLC35F1 |
| 9 | 33,000,000 | 33,150,000 | 441 | 1241 | -0.572913959 | SLC35F1 |
| 9 | 33,075,000 | 33,225,000 | 442 | 1500 | 1.021351207 | SLC35F1 |
| 9 | 33,150,000 | 33,300,000 | 443 | 1656 | 1.369519233 | |
| 9 | 33,225,000 | 33,375,000 | 444 | 1441 | 1.257164555 | |
| 9 | 33,300,000 | 33,450,000 | 445 | 1108 | 1.184141707 | |
| 9 | 33,375,000 | 33,525,000 | 446 | 852 | 0.963326561 | |
| 9 | 33,450,000 | 33,600,000 | 447 | 647 | 0.516309195 | NEPN,NUS1 |
| 9 | 33,525,000 | 33,675,000 | 448 | 472 | -0.957977663 | GOPC,NEPN,NUS1 |
| 9 | 33,600,000 | 33,750,000 | 449 | 601 | -0.013263769 | DCBLD1,GOPC,NEPN |
| 9 | 33,675,000 | 33,825,000 | 450 | 592 | 0.531499935 | DCBLD1,ROS1 |
| 9 | 33,750,000 | 33,900,000 | 451 | 547 | 0.709178921 | ROS1 |
| 9 | 33,825,000 | 33,975,000 | 452 | 530 | 0.936160971 | ROS1,VGLL2 |
| 9 | 33,900,000 | 34,050,000 | 453 | 318 | 0.656908015 | ROS1,VGLL2 |
| 9 | 33,975,000 | 34,125,000 | 454 | 369 | -0.252124269 | |
| 9 | 34,050,000 | 34,200,000 | 455 | 556 | 0.162060326 | RFX6 |
| 9 | 34,125,000 | 34,275,000 | 456 | 707 | 0.26171776 | RFX6 |
| 9 | 34,200,000 | 34,350,000 | 457 | 823 | 0.531303083 | FAM162B,KPNA5,RFX6 |
| 9 | 34,275,000 | 34,425,000 | 458 | 829 | 0.723663442 | FAM162B,KPNA5,RSPH4A,TMEM230,ZUFSP |
| 9 | 34,350,000 | 34,500,000 | 459 | 863 | 0.445520575 | KPNA5,RSPH4A,TMEM230,ZUFSP |
| 9 | 34,425,000 | 34,575,000 | 460 | 983 | 0.378602514 | SULT1C4 |
| 9 | 34,500,000 | 34,650,000 | 461 | 1004 | 0.384972058 | FAM26D,RWDD1,SULT1C4,TRAPPC3L |
| 9 | 34,575,000 | 34,725,000 | 462 | 847 | -0.208340564 | DSE,FAM26D,FAM26E,FAM26F,RWDD1,TRAPPC3L |
| 9 | 34,650,000 | 34,800,000 | 463 | 526 | -1.325870568 | DSE,FAM26E,FAM26F,TRAPPC3L |
| 9 | 34,725,000 | 34,875,000 | 464 | 328 | -0.503079735 | DSE,TSPYL1 |
| 9 | 34,800,000 | 34,950,000 | 465 | 323 | 0.687612724 | NT5DC1,TSPYL1,TSPYL4 |
| 9 | 34,875,000 | 35,025,000 | 466 | 434 | 0.522239738 | COL10A1,NT5DC1,TSPYL1,TSPYL4 |
| 9 | 34,950,000 | 35,100,000 | 467 | 493 | 0.14699182 | COL10A1,FRK,NT5DC1 |
| 9 | 35,025,000 | 35,175,000 | 468 | 621 | -1.285798413 | FRK |
| 9 | 35,100,000 | 35,250,000 | 469 | 633 | -1.177011032 | FRK |
| 9 | 35,175,000 | 35,325,000 | 470 | 613 | -1.01623613 | |
| 9 | 35,250,000 | 35,400,000 | 471 | 1044 | -0.587814473 | |
| 9 | 35,325,000 | 35,475,000 | 472 | 980 | -0.222039192 | |
| 9 | 35,400,000 | 35,550,000 | 473 | 842 | -0.630681495 | |
| 9 | 35,475,000 | 35,625,000 | 474 | 1208 | -0.188624237 | |
| 9 | 35,550,000 | 35,700,000 | 475 | 887 | 0.368605292 | |
| 9 | 35,625,000 | 35,775,000 | 476 | 738 | -0.36146348 | |
| 9 | 35,700,000 | 35,850,000 | 477 | 1046 | 0.64158753 | |
| 9 | 35,775,000 | 35,925,000 | 478 | 828 | 1.088198629 | |
| 9 | 35,850,000 | 36,000,000 | 479 | 692 | 1.020540842 | |
| 9 | 35,925,000 | 36,075,000 | 480 | 925 | 0.830196849 | |
| 9 | 36,000,000 | 36,150,000 | 481 | 1113 | 0.95202937 | |
| 9 | 36,075,000 | 36,225,000 | 482 | 1506 | 1.213169716 | |
| 9 | 36,150,000 | 36,300,000 | 483 | 1629 | 0.217625255 | |
| 9 | 36,225,000 | 36,375,000 | 484 | 1512 | -0.806610487 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|-----------------------------------|
| 9 | 36,300,000 | 36,450,000 | 485 | 1288 | -0.197860616 | |
| 9 | 36,375,000 | 36,525,000 | 486 | 913 | 0.725806231 | |
| 9 | 36,450,000 | 36,600,000 | 487 | 941 | 0.535235825 | HS3ST5 |
| 9 | 36,525,000 | 36,675,000 | 488 | 1057 | 0.483497947 | HS3ST5 |
| 9 | 36,600,000 | 36,750,000 | 489 | 1466 | 0.195393813 | HS3ST5 |
| 9 | 36,675,000 | 36,825,000 | 490 | 1435 | -0.083844427 | HS3ST5 |
| 9 | 36,750,000 | 36,900,000 | 491 | 1009 | -0.685870688 | HS3ST5 |
| 9 | 36,825,000 | 36,975,000 | 492 | 777 | -2.033345118 | HDAC2,HS3ST5 |
| 9 | 36,900,000 | 37,050,000 | 493 | 557 | -2.617210554 | HDAC2,MARCKS |
| 9 | 36,975,000 | 37,125,000 | 494 | 441 | -0.790750791 | MARCKS |
| 9 | 37,050,000 | 37,200,000 | 495 | 306 | -0.704564717 | |
| 9 | 37,125,000 | 37,275,000 | 496 | 395 | -0.553205456 | |
| 9 | 37,200,000 | 37,350,000 | 497 | 587 | -0.043432243 | |
| 9 | 37,275,000 | 37,425,000 | 498 | 923 | 0.841295788 | |
| 9 | 37,350,000 | 37,500,000 | 499 | 807 | 0.945756291 | |
| 9 | 37,425,000 | 37,575,000 | 500 | 474 | 0.723281011 | |
| 9 | 37,500,000 | 37,650,000 | 501 | 469 | 1.012064699 | |
| 9 | 37,575,000 | 37,725,000 | 502 | 474 | 0.742481162 | |
| 9 | 37,650,000 | 37,800,000 | 503 | 525 | 0.600683421 | |
| 9 | 37,725,000 | 37,875,000 | 504 | 560 | 0.741505373 | |
| 9 | 37,800,000 | 37,950,000 | 505 | 502 | 0.841425599 | |
| 9 | 37,875,000 | 38,025,000 | 506 | 706 | 0.874766441 | |
| 9 | 37,950,000 | 38,100,000 | 507 | 771 | 0.374344451 | |
| 9 | 38,025,000 | 38,175,000 | 508 | 567 | -1.555176629 | |
| 9 | 38,100,000 | 38,250,000 | 509 | 737 | -0.163342129 | |
| 9 | 38,175,000 | 38,325,000 | 510 | 632 | 0.865548985 | |
| 9 | 38,250,000 | 38,400,000 | 511 | 827 | 0.541833647 | |
| 9 | 38,325,000 | 38,475,000 | 512 | 1228 | 0.668155926 | |
| 9 | 38,400,000 | 38,550,000 | 513 | 734 | 0.694204253 | |
| 9 | 38,475,000 | 38,625,000 | 514 | 435 | 1.112558112 | |
| 9 | 38,550,000 | 38,700,000 | 515 | 573 | 0.927937592 | LAMA4 |
| 9 | 38,625,000 | 38,775,000 | 516 | 577 | 0.960983563 | LAMA4 |
| 9 | 38,700,000 | 38,850,000 | 517 | 712 | 1.266112713 | FAM229B,LAMA4,TUBE1,WISP3 |
| 9 | 38,775,000 | 38,925,000 | 518 | 683 | 1.360368558 | FAM229B,LAMA4,TUBE1,WISP3 |
| 9 | 38,850,000 | 39,000,000 | 519 | 388 | 0.289033385 | WISP3 |
| 9 | 38,925,000 | 39,075,000 | 520 | 348 | -4.456902335 | |
| 9 | 39,000,000 | 39,150,000 | 521 | 422 | -2.684572228 | FYN |
| 9 | 39,075,000 | 39,225,000 | 522 | 722 | -1.95841799 | FYN |
| 9 | 39,150,000 | 39,300,000 | 523 | 739 | -1.856175516 | FYN |
| 9 | 39,225,000 | 39,375,000 | 524 | 360 | -0.592592122 | FYN,TRAF3IP2 |
| 9 | 39,300,000 | 39,450,000 | 525 | 264 | -0.356705708 | REV3L,TRAF3IP2,ENSBTAG00000039456 |
| 9 | 39,375,000 | 39,525,000 | 526 | 213 | 0.592724522 | REV3L,ENSBTAG00000039456 |
| 9 | 39,450,000 | 39,600,000 | 527 | 212 | 0.654508788 | REV3L |
| 9 | 39,525,000 | 39,675,000 | 528 | 461 | 0.743727948 | KIAA1919,REV3L,SLC16A10 |
| 9 | 39,600,000 | 39,750,000 | 529 | 507 | 0.618506738 | KIAA1919,SLC16A10 |
| 9 | 39,675,000 | 39,825,000 | 530 | 367 | 0.922281544 | RPF2,SLC16A10 |
| 9 | 39,750,000 | 39,900,000 | 531 | 271 | 1.377299732 | GTF3C6,RPF2,SLC16A10 |
| 9 | 39,825,000 | 39,975,000 | 532 | 115 | 1.23737257 | AMD1,GTF3C6,RPF2 |
| 9 | 39,900,000 | 40,050,000 | 533 | 187 | 1.245898039 | AMD1 |
| 9 | 39,975,000 | 40,125,000 | 534 | 401 | -0.428664555 | CDK19 |
| 9 | 40,050,000 | 40,200,000 | 535 | 548 | -0.047228636 | CDK19 |
| 9 | 40,125,000 | 40,275,000 | 536 | 856 | 0.519470168 | SLC22A16 |
| 9 | 40,200,000 | 40,350,000 | 537 | 816 | 0.197784067 | C9H6orf186,DDO,SLC22A16 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 40,275,000 | 40,425,000 | 538 | 516 | -1.114474773 | C9H6orf186,DDO |
| 9 | 40,350,000 | 40,500,000 | 539 | 694 | -0.897950176 | C9H6orf186,CDC40 |
| 9 | 40,425,000 | 40,575,000 | 540 | 562 | -1.250818459 | C9H6orf186,CDC40,WASF1 |
| 9 | 40,500,000 | 40,650,000 | 541 | 392 | -4.695824526 | CDC40,WASF1 |
| 9 | 40,575,000 | 40,725,000 | 542 | 876 | -1.258694051 | GPR6,WASF1 |
| 9 | 40,650,000 | 40,800,000 | 543 | 887 | 0.337001029 | GPR6 |
| 9 | 40,725,000 | 40,875,000 | 544 | 594 | -0.623306284 | FIG4 |
| 9 | 40,800,000 | 40,950,000 | 545 | 588 | -1.381991706 | FIG4 |
| 9 | 40,875,000 | 41,025,000 | 546 | 594 | -1.304910624 | FIG4 |
| 9 | 40,950,000 | 41,100,000 | 547 | 1087 | -0.566030722 | AK9,FIG4 |
| 9 | 41,025,000 | 41,175,000 | 548 | 1003 | -0.504965774 | AK9,FIG4,ZBTB24 |
| 9 | 41,100,000 | 41,250,000 | 549 | 379 | -0.261925434 | AK9,CD164,MICAL1,PPIL6,SMPD2,ZBTB24 |
| 9 | 41,175,000 | 41,325,000 | 550 | 202 | 0.052964093 | CD164,MICAL1,PPIL6,SMPD2,ZBTB24,ENSBTAG00000026637 |
| 9 | 41,250,000 | 41,400,000 | 551 | 216 | -0.108973472 | CD164,ENSBTAG00000026637,ENSBTAG00000047024 |
| 9 | 41,325,000 | 41,475,000 | 552 | 269 | -0.219813639 | CEP57L1,ENSBTAG00000026637,ENSBTAG00000047024 |
| 9 | 41,400,000 | 41,550,000 | 553 | 254 | -1.168630085 | CEP57L1 |
| 9 | 41,475,000 | 41,625,000 | 554 | 325 | -0.744174107 | CEP57L1,SESN1 |
| 9 | 41,550,000 | 41,700,000 | 555 | 371 | -0.44397563 | CEP57L1,SESN1 |
| 9 | 41,625,000 | 41,775,000 | 556 | 508 | -0.348381814 | ARMC2,SESN1 |
| 9 | 41,700,000 | 41,850,000 | 557 | 489 | -0.168527514 | ARMC2 |
| 9 | 41,775,000 | 41,925,000 | 558 | 404 | 0.373273796 | ARMC2 |
| 9 | 41,850,000 | 42,000,000 | 559 | 349 | 0.319633919 | |
| 9 | 41,925,000 | 42,075,000 | 560 | 284 | -0.031372078 | FOXO3 |
| 9 | 42,000,000 | 42,150,000 | 561 | 418 | -0.8222805 | FOXO3 |
| 9 | 42,075,000 | 42,225,000 | 562 | 452 | -2.024463646 | FOXO3,LACE1 |
| 9 | 42,150,000 | 42,300,000 | 563 | 463 | -0.848408852 | LACE1 |
| 9 | 42,225,000 | 42,375,000 | 564 | 370 | 0.307297496 | LACE1,SNX3,ENSBTAG00000045504 |
| 9 | 42,300,000 | 42,450,000 | 565 | 247 | -0.405775432 | LACE1,NR2E1,SNX3,ENSBTAG00000045504 |
| 9 | 42,375,000 | 42,525,000 | 566 | 239 | -1.056299992 | NR2E1,SNX3 |
| 9 | 42,450,000 | 42,600,000 | 567 | 312 | -0.75469676 | NR2E1,OSTM1,ENSBTAG00000023792 |
| 9 | 42,525,000 | 42,675,000 | 568 | 389 | -2.710463265 | OSTM1,SEC63,ENSBTAG00000023792 |
| 9 | 42,600,000 | 42,750,000 | 569 | 468 | -2.899813749 | SEC63 |
| 9 | 42,675,000 | 42,825,000 | 570 | 833 | 0.738963628 | SCML4,SEC63 |
| 9 | 42,750,000 | 42,900,000 | 571 | 872 | 0.627909679 | SCML4 |
| 9 | 42,825,000 | 42,975,000 | 572 | 500 | -1.136915364 | SCML4,SOBP |
| 9 | 42,900,000 | 43,050,000 | 573 | 439 | -0.738754134 | SOBP |
| 9 | 42,975,000 | 43,125,000 | 574 | 385 | 0.396459739 | PDSS2,SOBP |
| 9 | 43,050,000 | 43,200,000 | 575 | 365 | 0.362084109 | PDSS2,SOBP |
| 9 | 43,125,000 | 43,275,000 | 576 | 360 | -0.434028487 | PDSS2 |
| 9 | 43,200,000 | 43,350,000 | 577 | 455 | -0.070217057 | PDSS2 |
| 9 | 43,275,000 | 43,425,000 | 578 | 742 | 1.007399289 | BEND3,PDSS2 |
| 9 | 43,350,000 | 43,500,000 | 579 | 640 | 1.11968634 | BEND3,C9H6ORF203,PDSS2,ENSBTAG00000045655 |
| 9 | 43,425,000 | 43,575,000 | 580 | 657 | 1.068279937 | C9H6ORF203,ENSBTAG00000045655 |
| 9 | 43,500,000 | 43,650,000 | 581 | 829 | 0.733174145 | |
| 9 | 43,575,000 | 43,725,000 | 582 | 772 | 0.272830504 | |
| 9 | 43,650,000 | 43,800,000 | 583 | 656 | 0.486887363 | QRSL1 |
| 9 | 43,725,000 | 43,875,000 | 584 | 444 | 0.802560567 | QRSL1,RTN4IP1 |
| 9 | 43,800,000 | 43,950,000 | 585 | 632 | -0.242311374 | AIM1,QRSL1,RTN4IP1 |
| 9 | 43,875,000 | 44,025,000 | 586 | 896 | -2.339763533 | AIM1,RTN4IP1 |
| 9 | 43,950,000 | 44,100,000 | 587 | 1031 | -3.808618077 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------------------|
| 9 | 44,025,000 | 44,175,000 | 588 | 1053 | -2.210822367 | ATG5 |
| 9 | 44,100,000 | 44,250,000 | 589 | 669 | -0.025681293 | ATG5 |
| 9 | 44,175,000 | 44,325,000 | 590 | 430 | 0.049728106 | ATG5 |
| 9 | 44,250,000 | 44,400,000 | 591 | 494 | -1.011322209 | PRDM1 |
| 9 | 44,325,000 | 44,475,000 | 592 | 444 | -1.232076858 | PRDM1 |
| 9 | 44,400,000 | 44,550,000 | 593 | 353 | -0.079324788 | |
| 9 | 44,475,000 | 44,625,000 | 594 | 500 | 0.914857901 | |
| 9 | 44,550,000 | 44,700,000 | 595 | 573 | 1.124746638 | ENSBTAG00000020368 |
| 9 | 44,625,000 | 44,775,000 | 596 | 445 | 1.021468948 | ENSBTAG00000020368 |
| 9 | 44,700,000 | 44,850,000 | 597 | 722 | 1.049541045 | |
| 9 | 44,775,000 | 44,925,000 | 598 | 995 | 1.018343746 | |
| 9 | 44,850,000 | 45,000,000 | 599 | 695 | 0.720411746 | |
| 9 | 44,925,000 | 45,075,000 | 600 | 278 | 0.479060968 | |
| 9 | 45,000,000 | 45,150,000 | 601 | 208 | 0.759347641 | |
| 9 | 45,075,000 | 45,225,000 | 602 | 482 | 0.938236949 | PREP |
| 9 | 45,150,000 | 45,300,000 | 603 | 531 | 0.918663102 | PREP |
| 9 | 45,225,000 | 45,375,000 | 604 | 415 | 0.874496021 | PREP |
| 9 | 45,300,000 | 45,450,000 | 605 | 559 | 1.002414272 | PREP,ENSBTAG00000033218 |
| 9 | 45,375,000 | 45,525,000 | 606 | 613 | 0.527225297 | BVES,POPDC3,ENSBTAG00000033218 |
| 9 | 45,450,000 | 45,600,000 | 607 | 432 | -0.198574258 | BVES,LIN28B,POPDC3 |
| 9 | 45,525,000 | 45,675,000 | 608 | 349 | -0.470307604 | LIN28B |
| 9 | 45,600,000 | 45,750,000 | 609 | 377 | 0.288388374 | HACE1 |
| 9 | 45,675,000 | 45,825,000 | 610 | 387 | 0.87806462 | HACE1 |
| 9 | 45,750,000 | 45,900,000 | 611 | 358 | 0.425988759 | HACE1 |
| 9 | 45,825,000 | 45,975,000 | 612 | 265 | 0.310184792 | HACE1 |
| 9 | 45,900,000 | 46,050,000 | 613 | 169 | 0.32791821 | |
| 9 | 45,975,000 | 46,125,000 | 614 | 225 | -1.124144008 | |
| 9 | 46,050,000 | 46,200,000 | 615 | 321 | -2.139560215 | |
| 9 | 46,125,000 | 46,275,000 | 616 | 308 | -1.748705395 | |
| 9 | 46,200,000 | 46,350,000 | 617 | 291 | -0.539778582 | |
| 9 | 46,275,000 | 46,425,000 | 618 | 582 | -4.375003972 | |
| 9 | 46,350,000 | 46,500,000 | 619 | 782 | -3.208618571 | |
| 9 | 46,425,000 | 46,575,000 | 620 | 675 | -0.145178947 | |
| 9 | 46,500,000 | 46,650,000 | 621 | 582 | -0.087746469 | |
| 9 | 46,575,000 | 46,725,000 | 622 | 723 | 0.148053844 | |
| 9 | 46,650,000 | 46,800,000 | 623 | 996 | -0.413727862 | |
| 9 | 46,725,000 | 46,875,000 | 624 | 667 | -1.054804884 | |
| 9 | 46,800,000 | 46,950,000 | 625 | 308 | -0.253942796 | |
| 9 | 46,875,000 | 47,025,000 | 626 | 396 | 0.195122537 | |
| 9 | 46,950,000 | 47,100,000 | 627 | 394 | 0.359840566 | |
| 9 | 47,025,000 | 47,175,000 | 628 | 384 | -0.073415468 | |
| 9 | 47,100,000 | 47,250,000 | 629 | 664 | -0.314276727 | |
| 9 | 47,175,000 | 47,325,000 | 630 | 750 | 0.139221515 | |
| 9 | 47,250,000 | 47,400,000 | 631 | 947 | 0.57035638 | |
| 9 | 47,325,000 | 47,475,000 | 632 | 1294 | -0.51856042 | |
| 9 | 47,400,000 | 47,550,000 | 633 | 1187 | -0.283804306 | |
| 9 | 47,475,000 | 47,625,000 | 634 | 1099 | 0.936082099 | |
| 9 | 47,550,000 | 47,700,000 | 635 | 856 | 0.907523178 | |
| 9 | 47,625,000 | 47,775,000 | 636 | 580 | 0.778630574 | |
| 9 | 47,700,000 | 47,850,000 | 637 | 514 | 0.95568827 | |
| 9 | 47,775,000 | 47,925,000 | 638 | 700 | 0.997948386 | |
| 9 | 47,850,000 | 48,000,000 | 639 | 1320 | 0.551848185 | |
| 9 | 47,925,000 | 48,075,000 | 640 | 1482 | 0.704779137 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 48,000,000 | 48,150,000 | 641 | 1131 | 0.134770948 | |
| 9 | 48,075,000 | 48,225,000 | 642 | 1275 | -0.690086616 | |
| 9 | 48,150,000 | 48,300,000 | 643 | 1104 | -1.093271842 | |
| 9 | 48,225,000 | 48,375,000 | 644 | 880 | -1.490661937 | |
| 9 | 48,300,000 | 48,450,000 | 645 | 982 | -0.398677404 | |
| 9 | 48,375,000 | 48,525,000 | 646 | 1073 | -0.479729661 | GRIK2 |
| 9 | 48,450,000 | 48,600,000 | 647 | 1106 | -0.765324478 | GRIK2 |
| 9 | 48,525,000 | 48,675,000 | 648 | 1004 | -0.552224277 | GRIK2 |
| 9 | 48,600,000 | 48,750,000 | 649 | 999 | -0.605010722 | GRIK2 |
| 9 | 48,675,000 | 48,825,000 | 650 | 837 | -0.803636052 | GRIK2 |
| 9 | 48,750,000 | 48,900,000 | 651 | 661 | -0.272020938 | GRIK2 |
| 9 | 48,825,000 | 48,975,000 | 652 | 589 | -0.150365269 | GRIK2 |
| 9 | 48,900,000 | 49,050,000 | 653 | 481 | -0.497802603 | GRIK2 |
| 9 | 48,975,000 | 49,125,000 | 654 | 350 | -0.482215581 | GRIK2,ENSBTAG00000030490 |
| 9 | 49,050,000 | 49,200,000 | 655 | 319 | -0.401900293 | GRIK2,ENSBTAG00000030490 |
| 9 | 49,125,000 | 49,275,000 | 656 | 369 | -0.723369165 | GRIK2 |
| 9 | 49,200,000 | 49,350,000 | 657 | 505 | -1.534835821 | GRIK2 |
| 9 | 49,275,000 | 49,425,000 | 658 | 763 | -0.406661999 | |
| 9 | 49,350,000 | 49,500,000 | 659 | 873 | -0.539946259 | |
| 9 | 49,425,000 | 49,575,000 | 660 | 880 | -0.691519132 | |
| 9 | 49,500,000 | 49,650,000 | 661 | 843 | -0.832024155 | |
| 9 | 49,575,000 | 49,725,000 | 662 | 563 | -1.985309724 | ASCC3 |
| 9 | 49,650,000 | 49,800,000 | 663 | 395 | -1.330782076 | ASCC3 |
| 9 | 49,725,000 | 49,875,000 | 664 | 627 | -4.163086442 | ASCC3,ENSBTAG00000045624 |
| 9 | 49,800,000 | 49,950,000 | 665 | 820 | -5.067892464 | ASCC3,ENSBTAG00000045624 |
| 9 | 49,875,000 | 50,025,000 | 666 | 688 | -4.712345787 | ASCC3 |
| 9 | 49,950,000 | 50,100,000 | 667 | 836 | -0.662094331 | ASCC3 |
| 9 | 50,025,000 | 50,175,000 | 668 | 900 | 0.904965127 | ASCC3,SIM1 |
| 9 | 50,100,000 | 50,250,000 | 669 | 563 | 0.324720091 | ASCC3,SIM1 |
| 9 | 50,175,000 | 50,325,000 | 670 | 517 | -0.185267207 | SIM1 |
| 9 | 50,250,000 | 50,400,000 | 671 | 599 | -0.754504371 | |
| 9 | 50,325,000 | 50,475,000 | 672 | 697 | -0.476797997 | |
| 9 | 50,400,000 | 50,550,000 | 673 | 843 | -1.027800726 | ENSBTAG00000014104 |
| 9 | 50,475,000 | 50,625,000 | 674 | 911 | -3.510230293 | MCHR2,ENSBTAG00000014104 |
| 9 | 50,550,000 | 50,700,000 | 675 | 1019 | -2.256138863 | MCHR2 |
| 9 | 50,625,000 | 50,775,000 | 676 | 971 | -0.375843405 | |
| 9 | 50,700,000 | 50,850,000 | 677 | 649 | 0.229127948 | |
| 9 | 50,775,000 | 50,925,000 | 678 | 346 | 0.093839636 | CCNC,PRDM13 |
| 9 | 50,850,000 | 51,000,000 | 679 | 310 | 0.185417331 | CCNC,PRDM13,USP45,ENSBTAG00000038931 |
| 9 | 50,925,000 | 51,075,000 | 680 | 352 | 0.533113456 | CCNC,COQ3,SFRS18,USP45,ENSBTAG00000038931 |
| 9 | 51,000,000 | 51,150,000 | 681 | 335 | 0.449828065 | COQ3,FAXC,SFRS18,USP45 |
| 9 | 51,075,000 | 51,225,000 | 682 | 605 | 0.245612298 | COQ3,FAXC |
| 9 | 51,150,000 | 51,300,000 | 683 | 1230 | 0.41096054 | FAXC |
| 9 | 51,225,000 | 51,375,000 | 684 | 1224 | -0.553932999 | |
| 9 | 51,300,000 | 51,450,000 | 685 | 654 | -2.199239549 | |
| 9 | 51,375,000 | 51,525,000 | 686 | 552 | -0.882371373 | FBXL4 |
| 9 | 51,450,000 | 51,600,000 | 687 | 644 | -0.892671455 | FBXL4,POU3F2 |
| 9 | 51,525,000 | 51,675,000 | 688 | 594 | -0.130807375 | FBXL4,POU3F2 |
| 9 | 51,600,000 | 51,750,000 | 689 | 705 | -0.916839776 | POU3F2 |
| 9 | 51,675,000 | 51,825,000 | 690 | 1048 | -0.303084451 | |
| 9 | 51,750,000 | 51,900,000 | 691 | 960 | -0.307170741 | |
| 9 | 51,825,000 | 51,975,000 | 692 | 597 | -2.655631144 | |
| 9 | 51,900,000 | 52,050,000 | 693 | 527 | -1.978262056 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 51,975,000 | 52,125,000 | 694 | 473 | 0.083421254 | |
| 9 | 52,050,000 | 52,200,000 | 695 | 420 | -0.501280656 | |
| 9 | 52,125,000 | 52,275,000 | 696 | 493 | 0.026403808 | |
| 9 | 52,200,000 | 52,350,000 | 697 | 682 | 0.736414124 | |
| 9 | 52,275,000 | 52,425,000 | 698 | 610 | 0.929505696 | |
| 9 | 52,350,000 | 52,500,000 | 699 | 484 | 0.623398143 | |
| 9 | 52,425,000 | 52,575,000 | 700 | 661 | 0.805082805 | |
| 9 | 52,500,000 | 52,650,000 | 701 | 633 | 1.316526299 | |
| 9 | 52,575,000 | 52,725,000 | 702 | 666 | 0.119153431 | |
| 9 | 52,650,000 | 52,800,000 | 703 | 750 | -0.222338844 | |
| 9 | 52,725,000 | 52,875,000 | 704 | 489 | 0.537304568 | |
| 9 | 52,800,000 | 52,950,000 | 705 | 336 | 0.812771856 | ENSBTAG00000017170 |
| 9 | 52,875,000 | 53,025,000 | 706 | 564 | 0.408445201 | ENSBTAG00000017170 |
| 9 | 52,950,000 | 53,100,000 | 707 | 654 | -0.68257574 | |
| 9 | 53,025,000 | 53,175,000 | 708 | 556 | -1.068045258 | |
| 9 | 53,100,000 | 53,250,000 | 709 | 611 | -1.407063826 | MMS22L |
| 9 | 53,175,000 | 53,325,000 | 710 | 616 | -1.473271844 | MMS22L |
| 9 | 53,250,000 | 53,400,000 | 711 | 822 | 0.27454693 | KLHL32,MMS22L |
| 9 | 53,325,000 | 53,475,000 | 712 | 996 | 0.617666045 | KLHL32,MMS22L |
| 9 | 53,400,000 | 53,550,000 | 713 | 869 | 0.444561121 | KLHL32 |
| 9 | 53,475,000 | 53,625,000 | 714 | 461 | -0.005909355 | |
| 9 | 53,550,000 | 53,700,000 | 715 | 597 | 0.592197368 | NDUFAF4 |
| 9 | 53,625,000 | 53,775,000 | 716 | 1048 | 0.696725878 | NDUFAF4 |
| 9 | 53,700,000 | 53,850,000 | 717 | 828 | 0.575128407 | GPR63 |
| 9 | 53,775,000 | 53,925,000 | 718 | 858 | -0.880130957 | GPR63 |
| 9 | 53,850,000 | 54,000,000 | 719 | 937 | -0.731519711 | FHL5 |
| 9 | 53,925,000 | 54,075,000 | 720 | 776 | 0.998675257 | FHL5,UFL1 |
| 9 | 54,000,000 | 54,150,000 | 721 | 635 | 1.087106516 | FHL5,UFL1 |
| 9 | 54,075,000 | 54,225,000 | 722 | 567 | 0.686711737 | UFL1 |
| 9 | 54,150,000 | 54,300,000 | 723 | 463 | 0.259161899 | |
| 9 | 54,225,000 | 54,375,000 | 724 | 330 | 0.218262183 | |
| 9 | 54,300,000 | 54,450,000 | 725 | 488 | -0.13027947 | FUT9 |
| 9 | 54,375,000 | 54,525,000 | 726 | 644 | 0.082083622 | FUT9 |
| 9 | 54,450,000 | 54,600,000 | 727 | 893 | 0.931443617 | |
| 9 | 54,525,000 | 54,675,000 | 728 | 985 | 1.098576206 | |
| 9 | 54,600,000 | 54,750,000 | 729 | 996 | 0.898465089 | |
| 9 | 54,675,000 | 54,825,000 | 730 | 903 | 0.829398708 | ENSBTAG00000045583 |
| 9 | 54,750,000 | 54,900,000 | 731 | 899 | 0.606054172 | ENSBTAG00000045583 |
| 9 | 54,825,000 | 54,975,000 | 732 | 1386 | 0.544642308 | |
| 9 | 54,900,000 | 55,050,000 | 733 | 1212 | 0.663450125 | |
| 9 | 54,975,000 | 55,125,000 | 734 | 860 | 0.110367337 | MANEA |
| 9 | 55,050,000 | 55,200,000 | 735 | 818 | 0.173827184 | MANEA |
| 9 | 55,125,000 | 55,275,000 | 736 | 711 | 0.852486266 | MANEA |
| 9 | 55,200,000 | 55,350,000 | 737 | 1005 | 0.969214077 | |
| 9 | 55,275,000 | 55,425,000 | 738 | 1179 | 0.961268795 | |
| 9 | 55,350,000 | 55,500,000 | 739 | 910 | 0.948560236 | |
| 9 | 55,425,000 | 55,575,000 | 740 | 959 | 0.326425663 | |
| 9 | 55,500,000 | 55,650,000 | 741 | 1208 | -1.050588621 | |
| 9 | 55,575,000 | 55,725,000 | 742 | 1093 | -1.46649152 | |
| 9 | 55,650,000 | 55,800,000 | 743 | 1291 | 0.467329084 | |
| 9 | 55,725,000 | 55,875,000 | 744 | 1258 | 0.680894511 | |
| 9 | 55,800,000 | 55,950,000 | 745 | 1057 | 0.871072147 | |
| 9 | 55,875,000 | 56,025,000 | 746 | 1449 | 0.93499733 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--------------------|
| 9 | 55,950,000 | 56,100,000 | 747 | 1469 | 0.158086335 | |
| 9 | 56,025,000 | 56,175,000 | 748 | 1125 | -0.139160936 | |
| 9 | 56,100,000 | 56,250,000 | 749 | 876 | 0.776085081 | |
| 9 | 56,175,000 | 56,325,000 | 750 | 930 | 0.787411621 | |
| 9 | 56,250,000 | 56,400,000 | 751 | 1332 | 0.955620025 | ENSBTAG00000033083 |
| 9 | 56,325,000 | 56,475,000 | 752 | 1359 | 0.586267006 | ENSBTAG00000033083 |
| 9 | 56,400,000 | 56,550,000 | 753 | 1354 | 0.237417793 | |
| 9 | 56,475,000 | 56,625,000 | 754 | 1267 | 0.506071961 | |
| 9 | 56,550,000 | 56,700,000 | 755 | 1021 | 0.445494863 | |
| 9 | 56,625,000 | 56,775,000 | 756 | 1055 | 0.763764267 | |
| 9 | 56,700,000 | 56,850,000 | 757 | 808 | 0.898659332 | |
| 9 | 56,775,000 | 56,925,000 | 758 | 598 | 0.254055928 | |
| 9 | 56,850,000 | 57,000,000 | 759 | 1082 | 0.917445262 | |
| 9 | 56,925,000 | 57,075,000 | 760 | 1089 | 0.997770855 | |
| 9 | 57,000,000 | 57,150,000 | 761 | 587 | 0.594324838 | |
| 9 | 57,075,000 | 57,225,000 | 762 | 825 | -0.736458893 | |
| 9 | 57,150,000 | 57,300,000 | 763 | 930 | -1.073300615 | |
| 9 | 57,225,000 | 57,375,000 | 764 | 627 | -0.268596453 | |
| 9 | 57,300,000 | 57,450,000 | 765 | 665 | -0.515075433 | |
| 9 | 57,375,000 | 57,525,000 | 766 | 1141 | 0.273523286 | ENSBTAG00000003743 |
| 9 | 57,450,000 | 57,600,000 | 767 | 968 | 0.690607753 | ENSBTAG00000003743 |
| 9 | 57,525,000 | 57,675,000 | 768 | 637 | -0.177955956 | EPHA7 |
| 9 | 57,600,000 | 57,750,000 | 769 | 846 | -0.538768185 | EPHA7 |
| 9 | 57,675,000 | 57,825,000 | 770 | 771 | -1.173278934 | EPHA7 |
| 9 | 57,750,000 | 57,900,000 | 771 | 858 | -0.528342485 | EPHA7 |
| 9 | 57,825,000 | 57,975,000 | 772 | 1145 | -0.399775138 | EPHA7 |
| 9 | 57,900,000 | 58,050,000 | 773 | 1017 | -0.360951345 | |
| 9 | 57,975,000 | 58,125,000 | 774 | 933 | 0.751042465 | |
| 9 | 58,050,000 | 58,200,000 | 775 | 1218 | 0.804836123 | |
| 9 | 58,125,000 | 58,275,000 | 776 | 1052 | 0.48084965 | |
| 9 | 58,200,000 | 58,350,000 | 777 | 697 | 0.785508451 | |
| 9 | 58,275,000 | 58,425,000 | 778 | 696 | 0.827140668 | |
| 9 | 58,350,000 | 58,500,000 | 779 | 995 | 1.026509712 | |
| 9 | 58,425,000 | 58,575,000 | 780 | 1194 | 0.362554873 | |
| 9 | 58,500,000 | 58,650,000 | 781 | 1200 | 0.316473419 | |
| 9 | 58,575,000 | 58,725,000 | 782 | 1298 | 0.268600672 | |
| 9 | 58,650,000 | 58,800,000 | 783 | 1075 | -0.820914194 | |
| 9 | 58,725,000 | 58,875,000 | 784 | 796 | -1.071726022 | |
| 9 | 58,800,000 | 58,950,000 | 785 | 871 | 0.41509398 | |
| 9 | 58,875,000 | 59,025,000 | 786 | 1045 | 0.896271098 | |
| 9 | 58,950,000 | 59,100,000 | 787 | 1127 | 0.752631884 | |
| 9 | 59,025,000 | 59,175,000 | 788 | 1219 | 0.50970594 | |
| 9 | 59,100,000 | 59,250,000 | 789 | 1170 | -0.762245098 | |
| 9 | 59,175,000 | 59,325,000 | 790 | 1185 | -1.841890433 | |
| 9 | 59,250,000 | 59,400,000 | 791 | 1018 | -0.429568993 | |
| 9 | 59,325,000 | 59,475,000 | 792 | 670 | 0.780508042 | |
| 9 | 59,400,000 | 59,550,000 | 793 | 797 | 1.059425573 | |
| 9 | 59,475,000 | 59,625,000 | 794 | 988 | 0.68821304 | |
| 9 | 59,550,000 | 59,700,000 | 795 | 1128 | 0.517697877 | |
| 9 | 59,625,000 | 59,775,000 | 796 | 1061 | 0.528811026 | |
| 9 | 59,700,000 | 59,850,000 | 797 | 803 | 0.181351773 | |
| 9 | 59,775,000 | 59,925,000 | 798 | 963 | 1.121149375 | |
| 9 | 59,850,000 | 60,000,000 | 799 | 1000 | 1.25323246 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 59,925,000 | 60,075,000 | 800 | 982 | 0.84166135 | |
| 9 | 60,000,000 | 60,150,000 | 801 | 803 | 0.761794556 | |
| 9 | 60,075,000 | 60,225,000 | 802 | 698 | 0.120151661 | |
| 9 | 60,150,000 | 60,300,000 | 803 | 1010 | 0.302746154 | |
| 9 | 60,225,000 | 60,375,000 | 804 | 860 | 0.584857556 | |
| 9 | 60,300,000 | 60,450,000 | 805 | 962 | 0.148296555 | |
| 9 | 60,375,000 | 60,525,000 | 806 | 826 | -0.131644809 | |
| 9 | 60,450,000 | 60,600,000 | 807 | 354 | -0.973150439 | MAP3K7 |
| 9 | 60,525,000 | 60,675,000 | 808 | 432 | 0.01372667 | MAP3K7 |
| 9 | 60,600,000 | 60,750,000 | 809 | 561 | -0.300600849 | MAP3K7 |
| 9 | 60,675,000 | 60,825,000 | 810 | 656 | -0.906801884 | |
| 9 | 60,750,000 | 60,900,000 | 811 | 533 | 0.309005111 | |
| 9 | 60,825,000 | 60,975,000 | 812 | 399 | 0.872674692 | |
| 9 | 60,900,000 | 61,050,000 | 813 | 358 | 0.64032711 | |
| 9 | 60,975,000 | 61,125,000 | 814 | 322 | 0.967789986 | BACH2,ENSBTAG0000004749 |
| 9 | 61,050,000 | 61,200,000 | 815 | 465 | -0.452312487 | BACH2,ENSBTAG0000004749 |
| 9 | 61,125,000 | 61,275,000 | 816 | 540 | -0.150050503 | BACH2,CASP8AP2,GJA10 |
| 9 | 61,200,000 | 61,350,000 | 817 | 481 | 0.709960381 | BACH2,CASP8AP2,GJA10,MDN1 |
| 9 | 61,275,000 | 61,425,000 | 818 | 563 | 0.847660499 | MDN1 |
| 9 | 61,350,000 | 61,500,000 | 819 | 680 | 0.183748483 | ANKRD6,LYRM2,MDN1 |
| 9 | 61,425,000 | 61,575,000 | 820 | 755 | -0.385776595 | ANKRD6,LYRM2,MDN1 |
| 9 | 61,500,000 | 61,650,000 | 821 | 985 | -1.149725662 | ANKRD6,RRAGD |
| 9 | 61,575,000 | 61,725,000 | 822 | 689 | -1.528360127 | ANKRD6,GABRR2,RRAGD |
| 9 | 61,650,000 | 61,800,000 | 823 | 509 | 0.138867075 | GABRR2,RRAGD,UBE2J1 |
| 9 | 61,725,000 | 61,875,000 | 824 | 654 | 1.033389682 | GABRR1,PM20D2,RRAGD,UBE2J1 |
| 9 | 61,800,000 | 61,950,000 | 825 | 367 | 1.30570165 | GABRR1,PM20D2,PNRC1,SRSF12 |
| 9 | 61,875,000 | 62,025,000 | 826 | 214 | 0.909848649 | PNRC1,RNGTT,SRSF12 |
| 9 | 61,950,000 | 62,100,000 | 827 | 249 | 1.269186358 | RNGTT |
| 9 | 62,025,000 | 62,175,000 | 828 | 299 | 1.528252385 | RNGTT |
| 9 | 62,100,000 | 62,250,000 | 829 | 338 | 1.443628879 | RNGTT |
| 9 | 62,175,000 | 62,325,000 | 830 | 637 | 0.743632778 | RNGTT |
| 9 | 62,250,000 | 62,400,000 | 831 | 1046 | 0.523388646 | |
| 9 | 62,325,000 | 62,475,000 | 832 | 915 | 0.591570479 | |
| 9 | 62,400,000 | 62,550,000 | 833 | 705 | -0.023268867 | |
| 9 | 62,475,000 | 62,625,000 | 834 | 741 | -0.14029803 | |
| 9 | 62,550,000 | 62,700,000 | 835 | 719 | -0.032042075 | CNR1 |
| 9 | 62,625,000 | 62,775,000 | 836 | 488 | -0.038932797 | CNR1,SPACA1 |
| 9 | 62,700,000 | 62,850,000 | 837 | 517 | 0.249020784 | SPACA1 |
| 9 | 62,775,000 | 62,925,000 | 838 | 558 | 0.389849561 | SPACA1 |
| 9 | 62,850,000 | 63,000,000 | 839 | 339 | 0.881960016 | |
| 9 | 62,925,000 | 63,075,000 | 840 | 454 | 1.03710161 | |
| 9 | 63,000,000 | 63,150,000 | 841 | 476 | 0.97429521 | AKIRIN2 |
| 9 | 63,075,000 | 63,225,000 | 842 | 298 | 0.59278789 | AKIRIN2,ORC3 |
| 9 | 63,150,000 | 63,300,000 | 843 | 237 | 0.353395018 | AKIRIN2,ORC3,RARS2 |
| 9 | 63,225,000 | 63,375,000 | 844 | 280 | 0.266925931 | ORC3,RARS2,SLC35A1,ENSBTAG00000014054 |
| 9 | 63,300,000 | 63,450,000 | 845 | 413 | 0.22532626 | C9H6orf163,SLC35A1,ENSBTAG00000014054 |
| 9 | 63,375,000 | 63,525,000 | 846 | 409 | 0.256368248 | C9H6orf163,SMIM8,ZNF292,ENSBTAG00000014054 |
| 9 | 63,450,000 | 63,600,000 | 847 | 275 | 0.511309289 | C9H6orf163,SMIM8,ZNF292 |
| 9 | 63,525,000 | 63,675,000 | 848 | 270 | 0.910629003 | ZNF292 |
| 9 | 63,600,000 | 63,750,000 | 849 | 286 | 0.713606629 | CGA,ZNF292 |
| 9 | 63,675,000 | 63,825,000 | 850 | 399 | 0.647680269 | CGA,HTR1E,ENSBTAG00000047011 |
| 9 | 63,750,000 | 63,900,000 | 851 | 859 | 0.931671285 | HTR1E,ENSBTAG00000047011 |
| 9 | 63,825,000 | 63,975,000 | 852 | 1149 | 0.856327357 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 63,900,000 | 64,050,000 | 853 | 1153 | 0.525683422 | |
| 9 | 63,975,000 | 64,125,000 | 854 | 773 | 0.421790392 | |
| 9 | 64,050,000 | 64,200,000 | 855 | 400 | 0.342804805 | |
| 9 | 64,125,000 | 64,275,000 | 856 | 753 | 0.523222749 | |
| 9 | 64,200,000 | 64,350,000 | 857 | 914 | 0.417384783 | |
| 9 | 64,275,000 | 64,425,000 | 858 | 660 | 0.081821438 | |
| 9 | 64,350,000 | 64,500,000 | 859 | 484 | -0.563340258 | |
| 9 | 64,425,000 | 64,575,000 | 860 | 742 | -1.445785586 | |
| 9 | 64,500,000 | 64,650,000 | 861 | 991 | -1.243308365 | |
| 9 | 64,575,000 | 64,725,000 | 862 | 647 | -0.60452915 | SYNCRIP |
| 9 | 64,650,000 | 64,800,000 | 863 | 324 | 1.066247528 | SNX14,SYNCRIP |
| 9 | 64,725,000 | 64,875,000 | 864 | 468 | 1.041916066 | SNX14,SYNCRIP,ENSBTAG00000045976 |
| 9 | 64,800,000 | 64,950,000 | 865 | 627 | -0.647839762 | SNX14,ENSBTAG00000011330,ENSBTAG00000045976 |
| 9 | 64,875,000 | 65,025,000 | 866 | 798 | -1.729808739 | ENSBTAG00000011330 |
| 9 | 64,950,000 | 65,100,000 | 867 | 859 | -1.393525528 | |
| 9 | 65,025,000 | 65,175,000 | 868 | 910 | -0.34920212 | |
| 9 | 65,100,000 | 65,250,000 | 869 | 806 | 0.462757739 | |
| 9 | 65,175,000 | 65,325,000 | 870 | 539 | 0.125738292 | |
| 9 | 65,250,000 | 65,400,000 | 871 | 633 | -0.37659465 | |
| 9 | 65,325,000 | 65,475,000 | 872 | 767 | -0.661155792 | |
| 9 | 65,400,000 | 65,550,000 | 873 | 867 | -0.40835453 | |
| 9 | 65,475,000 | 65,625,000 | 874 | 794 | 0.082160081 | TBX18 |
| 9 | 65,550,000 | 65,700,000 | 875 | 556 | -0.136610714 | TBX18 |
| 9 | 65,625,000 | 65,775,000 | 876 | 456 | -1.236292335 | |
| 9 | 65,700,000 | 65,850,000 | 877 | 710 | -0.112261852 | |
| 9 | 65,775,000 | 65,925,000 | 878 | 926 | 0.486773578 | |
| 9 | 65,850,000 | 66,000,000 | 879 | 853 | -0.908878725 | |
| 9 | 65,925,000 | 66,075,000 | 880 | 683 | -1.324764858 | |
| 9 | 66,000,000 | 66,150,000 | 881 | 869 | 0.414319606 | KIAA1009 |
| 9 | 66,075,000 | 66,225,000 | 882 | 993 | 0.774055469 | KIAA1009,MRAP2 |
| 9 | 66,150,000 | 66,300,000 | 883 | 588 | 0.859596692 | KIAA1009,MRAP2 |
| 9 | 66,225,000 | 66,375,000 | 884 | 483 | 0.577513426 | MRAP2 |
| 9 | 66,300,000 | 66,450,000 | 885 | 1146 | 0.393097892 | CYB5R4 |
| 9 | 66,375,000 | 66,525,000 | 886 | 1416 | -0.070647043 | CYB5R4,RIPPLY2 |
| 9 | 66,450,000 | 66,600,000 | 887 | 957 | -0.365951599 | CYB5R4,RIPPLY2 |
| 9 | 66,525,000 | 66,675,000 | 888 | 897 | 0.163763054 | ENSBTAG00000026578 |
| 9 | 66,600,000 | 66,750,000 | 889 | 993 | 0.135461923 | THEMIS,ENSBTAG00000026578 |
| 9 | 66,675,000 | 66,825,000 | 890 | 716 | 0.188540941 | THEMIS |
| 9 | 66,750,000 | 66,900,000 | 891 | 427 | 0.272045778 | THEMIS |
| 9 | 66,825,000 | 66,975,000 | 892 | 695 | 0.662555534 | PTPRK,THEMIS |
| 9 | 66,900,000 | 67,050,000 | 893 | 1014 | 0.108012726 | PTPRK |
| 9 | 66,975,000 | 67,125,000 | 894 | 1069 | -0.831611566 | PTPRK |
| 9 | 67,050,000 | 67,200,000 | 895 | 1119 | -0.370638226 | PTPRK |
| 9 | 67,125,000 | 67,275,000 | 896 | 1158 | 0.368931143 | PTPRK |
| 9 | 67,200,000 | 67,350,000 | 897 | 1011 | 0.345798143 | PTPRK |
| 9 | 67,275,000 | 67,425,000 | 898 | 729 | 0.950860213 | PTPRK |
| 9 | 67,350,000 | 67,500,000 | 899 | 607 | 1.307149114 | PTPRK |
| 9 | 67,425,000 | 67,575,000 | 900 | 481 | 1.279032253 | PTPRK |
| 9 | 67,500,000 | 67,650,000 | 901 | 487 | 1.346680745 | PTPRK |
| 9 | 67,575,000 | 67,725,000 | 902 | 736 | 0.661657416 | PTPRK |
| 9 | 67,650,000 | 67,800,000 | 903 | 653 | -0.039332824 | |
| 9 | 67,725,000 | 67,875,000 | 904 | 621 | 0.061087909 | |

| | | | | | | |
|---|------------|------------|-----|------|--------------|---|
| 9 | 67,800,000 | 67,950,000 | 905 | 723 | 0.722940717 | |
| 9 | 67,875,000 | 68,025,000 | 906 | 719 | 0.684307724 | |
| 9 | 67,950,000 | 68,100,000 | 907 | 958 | 0.455997604 | |
| 9 | 68,025,000 | 68,175,000 | 908 | 1126 | -1.593452222 | LAMA2 |
| 9 | 68,100,000 | 68,250,000 | 909 | 870 | -1.915236577 | LAMA2 |
| 9 | 68,175,000 | 68,325,000 | 910 | 569 | 0.16659344 | LAMA2 |
| 9 | 68,250,000 | 68,400,000 | 911 | 832 | 0.608003876 | LAMA2 |
| 9 | 68,325,000 | 68,475,000 | 912 | 867 | 0.742448065 | LAMA2 |
| 9 | 68,400,000 | 68,550,000 | 913 | 802 | 0.14067842 | LAMA2 |
| 9 | 68,475,000 | 68,625,000 | 914 | 879 | -0.515046177 | LAMA2 |
| 9 | 68,550,000 | 68,700,000 | 915 | 657 | -0.513223324 | LAMA2 |
| 9 | 68,625,000 | 68,775,000 | 916 | 465 | 0.135406115 | ARHGAP18,LAMA2 |
| 9 | 68,700,000 | 68,850,000 | 917 | 356 | 0.254585491 | ARHGAP18 |
| 9 | 68,775,000 | 68,925,000 | 918 | 356 | 0.550219342 | ARHGAP18 |
| 9 | 68,850,000 | 69,000,000 | 919 | 531 | -0.773433703 | |
| 9 | 68,925,000 | 69,075,000 | 920 | 639 | -0.552485648 | ENSBTAG00000021446 |
| 9 | 69,000,000 | 69,150,000 | 921 | 512 | 0.928357936 | ENSBTAG00000021446 |
| 9 | 69,075,000 | 69,225,000 | 922 | 355 | 0.29840854 | L3MBTL3 |
| 9 | 69,150,000 | 69,300,000 | 923 | 522 | -1.184085603 | L3MBTL3,SAMD3 |
| 9 | 69,225,000 | 69,375,000 | 924 | 623 | -1.093079315 | L3MBTL3,SAMD3 |
| 9 | 69,300,000 | 69,450,000 | 925 | 492 | 0.288421118 | SAMD3 |
| 9 | 69,375,000 | 69,525,000 | 926 | 678 | 0.733010154 | TMEM200A |
| 9 | 69,450,000 | 69,600,000 | 927 | 1137 | 0.545327966 | TMEM200A |
| 9 | 69,525,000 | 69,675,000 | 928 | 1186 | 0.679898591 | |
| 9 | 69,600,000 | 69,750,000 | 929 | 1067 | 0.626908743 | |
| 9 | 69,675,000 | 69,825,000 | 930 | 1043 | 0.178939973 | |
| 9 | 69,750,000 | 69,900,000 | 931 | 938 | 0.477919105 | |
| 9 | 69,825,000 | 69,975,000 | 932 | 1075 | 0.43171721 | EPB41L2 |
| 9 | 69,900,000 | 70,050,000 | 933 | 880 | -0.377167665 | EPB41L2 |
| 9 | 69,975,000 | 70,125,000 | 934 | 615 | -2.308210718 | EPB41L2 |
| 9 | 70,050,000 | 70,200,000 | 935 | 639 | -1.21913939 | AKAP7 |
| 9 | 70,125,000 | 70,275,000 | 936 | 669 | 0.960192083 | AKAP7 |
| 9 | 70,200,000 | 70,350,000 | 937 | 629 | 1.12383819 | AKAP7 |
| 9 | 70,275,000 | 70,425,000 | 938 | 896 | 1.200377643 | AKAP7 |
| 9 | 70,350,000 | 70,500,000 | 939 | 931 | 0.838281158 | ARG1 |
| 9 | 70,425,000 | 70,575,000 | 940 | 724 | 0.355188908 | ARG1,MED23 |
| 9 | 70,500,000 | 70,650,000 | 941 | 981 | 0.761636506 | ARG1,ENPP3,MED23 |
| 9 | 70,575,000 | 70,725,000 | 942 | 1067 | 0.186913734 | ENPP3 |
| 9 | 70,650,000 | 70,800,000 | 943 | 925 | 0.046491523 | ENPP1,ENPP3 |
| 9 | 70,725,000 | 70,875,000 | 944 | 586 | 0.668421582 | CTGF,ENPP1 |
| 9 | 70,800,000 | 70,950,000 | 945 | 541 | -0.125470527 | CTGF,ENPP1 |
| 9 | 70,875,000 | 71,025,000 | 946 | 617 | -0.394089381 | CTGF |
| 9 | 70,950,000 | 71,100,000 | 947 | 386 | 0.009343791 | |
| 9 | 71,025,000 | 71,175,000 | 948 | 361 | 1.263428155 | |
| 9 | 71,100,000 | 71,250,000 | 949 | 750 | 1.348299772 | MOXD1 |
| 9 | 71,175,000 | 71,325,000 | 950 | 931 | 0.964147887 | MOXD1 |
| 9 | 71,250,000 | 71,400,000 | 951 | 921 | 0.520902845 | MOXD1,STX7 |
| 9 | 71,325,000 | 71,475,000 | 952 | 939 | 0.390375382 | MOXD1,STX7,TAAR9 |
| 9 | 71,400,000 | 71,550,000 | 953 | 893 | 0.318560107 | STX7,TAAR9,ENSBTAG00000040354,ENSBTAG00000046954,ENSBTAG00000047327 |

| | | | | | | |
|---|------------|------------|-----|------|--------------|--|
| 9 | 71,475,000 | 71,625,000 | 954 | 1065 | -3.080416264 | ENSBTAG00000027223,ENSBTAG00000038447,ENSBTAG00000039058,ENSBTAG00000040354,ENSBTAG00000046954,ENSBTAG00000047327,ENSBTAG00000047912 |
| 9 | 71,550,000 | 71,700,000 | 955 | 967 | -4.736939692 | TAAR6,ENSBTAG00000026548,ENSBTAG00000027223,ENSBTAG00000038447,ENSBTAG00000039058,ENSBTAG00000040489,ENSBTAG00000047912 |
| 9 | 71,625,000 | 71,775,000 | 956 | 1238 | -1.323387341 | TAAR5,TAAR6,ENSBTAG00000026548,ENSBTAG00000038483,ENSBTAG00000038761,ENSBTAG00000039615,ENSBTAG00000040489,ENSBTAG00000040533 |
| 9 | 71,700,000 | 71,850,000 | 957 | 1449 | -2.116891802 | TAAR1,TAAR2,TAAR5,VNN1,ENSBTAG00000038483,ENSBTAG00000038761,ENSBTAG00000039615,ENSBTAG00000040533 |
| 9 | 71,775,000 | 71,925,000 | 958 | 1088 | -3.42629993 | TAAR1,TAAR2,VNN1,VNN2 |
| 9 | 71,850,000 | 72,000,000 | 959 | 1047 | -2.667228948 | RPS12,SLC18B1,VNN1,VNN2 |
| 9 | 71,925,000 | 72,075,000 | 960 | 738 | -1.470852385 | RPS12,SLC18B1 |
| 9 | 72,000,000 | 72,150,000 | 961 | 434 | 0.05205005 | |
| 9 | 72,075,000 | 72,225,000 | 962 | 409 | 0.381836186 | |
| 9 | 72,150,000 | 72,300,000 | 963 | 301 | -0.224977417 | |
| 9 | 72,225,000 | 72,375,000 | 964 | 455 | -0.214880156 | |
| 9 | 72,300,000 | 72,450,000 | 965 | 471 | 0.596632989 | |
| 9 | 72,375,000 | 72,525,000 | 966 | 364 | 0.462583503 | |
| 9 | 72,450,000 | 72,600,000 | 967 | 536 | 0.699240478 | |
| 9 | 72,525,000 | 72,675,000 | 968 | 632 | 0.835356448 | EYA4 |
| 9 | 72,600,000 | 72,750,000 | 969 | 520 | -0.90657543 | EYA4 |
| 9 | 72,675,000 | 72,825,000 | 970 | 454 | -1.276757379 | EYA4 |
| 9 | 72,750,000 | 72,900,000 | 971 | 692 | -1.111393783 | |
| 9 | 72,825,000 | 72,975,000 | 972 | 880 | -0.768356258 | |
| 9 | 72,900,000 | 73,050,000 | 973 | 748 | 0.374521664 | |
| 9 | 72,975,000 | 73,125,000 | 974 | 445 | 0.129427971 | TBPL1,TCF21 |
| 9 | 73,050,000 | 73,200,000 | 975 | 406 | 0.816426339 | SLC2A12,TBPL1,TCF21 |
| 9 | 73,125,000 | 73,275,000 | 976 | 592 | 1.027454679 | SLC2A12,TBPL1 |
| 9 | 73,200,000 | 73,350,000 | 977 | 524 | 1.009179454 | SGK1,SLC2A12 |
| 9 | 73,275,000 | 73,425,000 | 978 | 535 | 0.868149987 | SGK1 |
| 9 | 73,350,000 | 73,500,000 | 979 | 779 | -0.117868388 | |
| 9 | 73,425,000 | 73,575,000 | 980 | 870 | -1.146612225 | |
| 9 | 73,500,000 | 73,650,000 | 981 | 649 | -1.194451548 | |
| 9 | 73,575,000 | 73,725,000 | 982 | 455 | -0.076737613 | ENSBTAG00000026543 |
| 9 | 73,650,000 | 73,800,000 | 983 | 553 | -2.163621419 | ENSBTAG00000026543 |
| 9 | 73,725,000 | 73,875,000 | 984 | 575 | -2.887536083 | |
| 9 | 73,800,000 | 73,950,000 | 985 | 630 | -2.846476249 | |
| 9 | 73,875,000 | 74,025,000 | 986 | 607 | -2.461463927 | ALDH8A1,HBS1L |
| 9 | 73,950,000 | 74,100,000 | 987 | 380 | -0.406800354 | ALDH8A1,HBS1L |
| 9 | 74,025,000 | 74,175,000 | 988 | 329 | -0.007212867 | HBS1L |
| 9 | 74,100,000 | 74,250,000 | 989 | 385 | -0.545140113 | MYB |
| 9 | 74,175,000 | 74,325,000 | 990 | 535 | -0.929906195 | MYB |
| 9 | 74,250,000 | 74,400,000 | 991 | 717 | -1.004952253 | AHI1,MYB |
| 9 | 74,325,000 | 74,475,000 | 992 | 747 | -1.097544314 | AHI1 |
| 9 | 74,400,000 | 74,550,000 | 993 | 788 | -2.003976989 | AHI1 |
| 9 | 74,475,000 | 74,625,000 | 994 | 829 | -3.054625789 | AHI1 |
| 9 | 74,550,000 | 74,700,000 | 995 | 936 | -1.054930547 | |
| 9 | 74,625,000 | 74,775,000 | 996 | 1222 | -0.270871924 | |
| 9 | 74,700,000 | 74,850,000 | 997 | 963 | -0.444532582 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 9 | 74,775,000 | 74,925,000 | 998 | 532 | 0.033013945 | |
| 9 | 74,850,000 | 75,000,000 | 999 | 767 | 0.625228635 | |
| 9 | 74,925,000 | 75,075,000 | 1000 | 757 | 1.164437138 | PDE7B |
| 9 | 75,000,000 | 75,150,000 | 1001 | 451 | 0.660314997 | PDE7B |
| 9 | 75,075,000 | 75,225,000 | 1002 | 489 | 0.351919679 | PDE7B |
| 9 | 75,150,000 | 75,300,000 | 1003 | 456 | 0.729070138 | BCLAF1,MTFR2,PDE7B |
| 9 | 75,225,000 | 75,375,000 | 1004 | 455 | 0.768983083 | BCLAF1,MGC151537,MTFR2,ENSBTAG00000046168 |
| 9 | 75,300,000 | 75,450,000 | 1005 | 705 | 0.67836588 | MGC151537,ENSBTAG00000046168 |
| 9 | 75,375,000 | 75,525,000 | 1006 | 1050 | -0.145283645 | MGC151537 |
| 9 | 75,450,000 | 75,600,000 | 1007 | 974 | 0.127716231 | MAP3K5,MGC151537 |
| 9 | 75,525,000 | 75,675,000 | 1008 | 930 | -0.929796697 | MAP3K5 |
| 9 | 75,600,000 | 75,750,000 | 1009 | 785 | -1.552928548 | MAP3K5 |
| 9 | 75,675,000 | 75,825,000 | 1010 | 639 | -0.192515115 | MAP3K5,PEX7 |
| 9 | 75,750,000 | 75,900,000 | 1011 | 875 | -0.592558175 | MAP3K5,PEX7,SLC35D3 |
| 9 | 75,825,000 | 75,975,000 | 1012 | 954 | -0.734065471 | PEX7,SLC35D3 |
| 9 | 75,900,000 | 76,050,000 | 1013 | 1114 | 0.138786082 | IL20RA,SLC35D3 |
| 9 | 75,975,000 | 76,125,000 | 1014 | 1126 | 0.60184316 | IFNGR1,IL20RA,IL22RA2 |
| 9 | 76,050,000 | 76,200,000 | 1015 | 745 | 0.689090829 | IFNGR1,IL22RA2 |
| 9 | 76,125,000 | 76,275,000 | 1016 | 751 | 0.157787551 | |
| 9 | 76,200,000 | 76,350,000 | 1017 | 979 | 0.342783233 | |
| 9 | 76,275,000 | 76,425,000 | 1018 | 661 | 0.726384095 | OLIG3 |
| 9 | 76,350,000 | 76,500,000 | 1019 | 359 | 0.035513728 | OLIG3 |
| 9 | 76,425,000 | 76,575,000 | 1020 | 475 | -1.171241486 | |
| 9 | 76,500,000 | 76,650,000 | 1021 | 643 | -0.715734624 | |
| 9 | 76,575,000 | 76,725,000 | 1022 | 811 | 0.908287542 | |
| 9 | 76,650,000 | 76,800,000 | 1023 | 842 | 0.977155508 | TNFAIP3 |
| 9 | 76,725,000 | 76,875,000 | 1024 | 720 | 0.526829222 | TNFAIP3 |
| 9 | 76,800,000 | 76,950,000 | 1025 | 708 | 0.776758252 | PERP |
| 9 | 76,875,000 | 77,025,000 | 1026 | 622 | 1.00148583 | PERP |
| 9 | 76,950,000 | 77,100,000 | 1027 | 646 | 0.516851376 | KIAA1244,PERP |
| 9 | 77,025,000 | 77,175,000 | 1028 | 970 | -0.812398538 | KIAA1244 |
| 9 | 77,100,000 | 77,250,000 | 1029 | 1217 | -0.717607735 | HEBP2,KIAA1244,NHSL1 |
| 9 | 77,175,000 | 77,325,000 | 1030 | 974 | -0.105049199 | HEBP2,NHSL1 |
| 9 | 77,250,000 | 77,400,000 | 1031 | 730 | 0.402015348 | NHSL1 |
| 9 | 77,325,000 | 77,475,000 | 1032 | 744 | 0.898884341 | |
| 9 | 77,400,000 | 77,550,000 | 1033 | 729 | 0.557449564 | |
| 9 | 77,475,000 | 77,625,000 | 1034 | 719 | 0.439830507 | CCDC28A,ECT2L |
| 9 | 77,550,000 | 77,700,000 | 1035 | 860 | 0.37372434 | CCDC28A,ECT2L,REPS1 |
| 9 | 77,625,000 | 77,775,000 | 1036 | 1021 | 0.222194225 | ECT2L,REPS1 |
| 9 | 77,700,000 | 77,850,000 | 1037 | 974 | 0.348758098 | ABRACL,REPS1 |
| 9 | 77,775,000 | 77,925,000 | 1038 | 873 | -0.028601654 | ABRACL,HECA |
| 9 | 77,850,000 | 78,000,000 | 1039 | 762 | -0.534187478 | HECA,TXLNB |
| 9 | 77,925,000 | 78,075,000 | 1040 | 672 | -0.485642791 | CITED2,TXLNB |
| 9 | 78,000,000 | 78,150,000 | 1041 | 655 | 0.688907588 | CITED2 |
| 9 | 78,075,000 | 78,225,000 | 1042 | 503 | 1.125006078 | |
| 9 | 78,150,000 | 78,300,000 | 1043 | 459 | 1.057842033 | |
| 9 | 78,225,000 | 78,375,000 | 1044 | 736 | -1.297596078 | |
| 9 | 78,300,000 | 78,450,000 | 1045 | 724 | -2.618428903 | |
| 9 | 78,375,000 | 78,525,000 | 1046 | 566 | -0.994044104 | |
| 9 | 78,450,000 | 78,600,000 | 1047 | 780 | 0.265651829 | |
| 9 | 78,525,000 | 78,675,000 | 1048 | 770 | 0.180446368 | |
| 9 | 78,600,000 | 78,750,000 | 1049 | 751 | 0.424449905 | |
| 9 | 78,675,000 | 78,825,000 | 1050 | 664 | 0.750971293 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|-----------------------------|
| 9 | 78,750,000 | 78,900,000 | 1051 | 406 | 0.677470135 | |
| 9 | 78,825,000 | 78,975,000 | 1052 | 425 | 0.508587353 | |
| 9 | 78,900,000 | 79,050,000 | 1053 | 591 | 0.671587641 | |
| 9 | 78,975,000 | 79,125,000 | 1054 | 552 | 0.756125335 | |
| 9 | 79,050,000 | 79,200,000 | 1055 | 313 | 1.138818493 | |
| 9 | 79,125,000 | 79,275,000 | 1056 | 306 | 0.986496387 | |
| 9 | 79,200,000 | 79,350,000 | 1057 | 472 | 0.255537367 | |
| 9 | 79,275,000 | 79,425,000 | 1058 | 745 | 0.300430614 | |
| 9 | 79,350,000 | 79,500,000 | 1059 | 842 | 0.132497755 | |
| 9 | 79,425,000 | 79,575,000 | 1060 | 918 | -0.711243948 | |
| 9 | 79,500,000 | 79,650,000 | 1061 | 871 | -0.996954085 | |
| 9 | 79,575,000 | 79,725,000 | 1062 | 1221 | -0.188722259 | |
| 9 | 79,650,000 | 79,800,000 | 1063 | 1543 | 0.12688462 | |
| 9 | 79,725,000 | 79,875,000 | 1064 | 1660 | -0.600894618 | |
| 9 | 79,800,000 | 79,950,000 | 1065 | 1618 | -0.685459849 | |
| 9 | 79,875,000 | 80,025,000 | 1066 | 1462 | 0.749750231 | |
| 9 | 79,950,000 | 80,100,000 | 1067 | 1618 | 0.879417003 | |
| 9 | 80,025,000 | 80,175,000 | 1068 | 1410 | 0.642839839 | |
| 9 | 80,100,000 | 80,250,000 | 1069 | 1555 | 0.531100082 | |
| 9 | 80,175,000 | 80,325,000 | 1070 | 1738 | 0.578412001 | |
| 9 | 80,250,000 | 80,400,000 | 1071 | 1461 | 0.775575299 | |
| 9 | 80,325,000 | 80,475,000 | 1072 | 1383 | 0.666192605 | |
| 9 | 80,400,000 | 80,550,000 | 1073 | 1601 | 0.734884969 | |
| 9 | 80,475,000 | 80,625,000 | 1074 | 1670 | 0.868531114 | NMBR |
| 9 | 80,550,000 | 80,700,000 | 1075 | 1303 | 0.671611126 | NMBR,VTA1 |
| 9 | 80,625,000 | 80,775,000 | 1076 | 1092 | 0.827006559 | VTA1 |
| 9 | 80,700,000 | 80,850,000 | 1077 | 911 | 0.683230074 | VTA1 |
| 9 | 80,775,000 | 80,925,000 | 1078 | 822 | 0.342131211 | GPR126 |
| 9 | 80,850,000 | 81,000,000 | 1079 | 1129 | -0.15463732 | GPR126 |
| 9 | 80,925,000 | 81,075,000 | 1080 | 1190 | -0.095126379 | GPR126 |
| 9 | 81,000,000 | 81,150,000 | 1081 | 1009 | 0.238432009 | |
| 9 | 81,075,000 | 81,225,000 | 1082 | 950 | -0.241784251 | |
| 9 | 81,150,000 | 81,300,000 | 1083 | 826 | 0.371485833 | HIVEP2 |
| 9 | 81,225,000 | 81,375,000 | 1084 | 767 | 0.769047868 | HIVEP2 |
| 9 | 81,300,000 | 81,450,000 | 1085 | 738 | 0.542641387 | |
| 9 | 81,375,000 | 81,525,000 | 1086 | 443 | 0.749382485 | |
| 9 | 81,450,000 | 81,600,000 | 1087 | 568 | 1.241662796 | AIG1 |
| 9 | 81,525,000 | 81,675,000 | 1088 | 808 | 1.302238001 | AIG1 |
| 9 | 81,600,000 | 81,750,000 | 1089 | 1091 | 0.805950122 | AIG1 |
| 9 | 81,675,000 | 81,825,000 | 1090 | 1045 | 0.125142453 | AIG1 |
| 9 | 81,750,000 | 81,900,000 | 1091 | 507 | 0.031302819 | AIG1 |
| 9 | 81,825,000 | 81,975,000 | 1092 | 371 | 0.960309575 | AIG1,DEADC1,PEX3 |
| 9 | 81,900,000 | 82,050,000 | 1093 | 842 | 1.376406327 | DEADC1,FUCA2,PEX3 |
| 9 | 81,975,000 | 82,125,000 | 1094 | 1387 | 1.341139575 | FUCA2,PEX3 |
| 9 | 82,050,000 | 82,200,000 | 1095 | 1402 | 0.831827502 | |
| 9 | 82,125,000 | 82,275,000 | 1096 | 1313 | 0.572645478 | PHACTR2 |
| 9 | 82,200,000 | 82,350,000 | 1097 | 1271 | 0.821357689 | PHACTR2 |
| 9 | 82,275,000 | 82,425,000 | 1098 | 889 | 0.915821875 | LTV1,PHACTR2,PLAGL1,ZC2HC1B |
| 9 | 82,350,000 | 82,500,000 | 1099 | 547 | 0.395092233 | LTV1,PLAGL1,ZC2HC1B |
| 9 | 82,425,000 | 82,575,000 | 1100 | 676 | -0.040891729 | SF3B5 |
| 9 | 82,500,000 | 82,650,000 | 1101 | 1104 | -0.480207429 | SF3B5,STX11 |
| 9 | 82,575,000 | 82,725,000 | 1102 | 989 | -0.370156737 | STX11 |
| 9 | 82,650,000 | 82,800,000 | 1103 | 553 | 0.398613634 | UTRN |

| | | | | | | |
|---|------------|------------|------|------|--------------|--|
| 9 | 82,725,000 | 82,875,000 | 1104 | 898 | 0.092512014 | UTRN |
| 9 | 82,800,000 | 82,950,000 | 1105 | 1180 | 0.227803828 | UTRN |
| 9 | 82,875,000 | 83,025,000 | 1106 | 1119 | 0.669488501 | UTRN |
| 9 | 82,950,000 | 83,100,000 | 1107 | 916 | 0.683549216 | UTRN |
| 9 | 83,025,000 | 83,175,000 | 1108 | 896 | 0.383704266 | UTRN |
| 9 | 83,100,000 | 83,250,000 | 1109 | 1117 | 0.298019367 | UTRN |
| 9 | 83,175,000 | 83,325,000 | 1110 | 980 | 0.245153918 | UTRN |
| 9 | 83,250,000 | 83,400,000 | 1111 | 1170 | 0.306686198 | UTRN |
| 9 | 83,325,000 | 83,475,000 | 1112 | 1556 | 0.409341286 | |
| 9 | 83,400,000 | 83,550,000 | 1113 | 1474 | -0.513672351 | |
| 9 | 83,475,000 | 83,625,000 | 1114 | 1231 | -0.122764916 | |
| 9 | 83,550,000 | 83,700,000 | 1115 | 1385 | 0.526006404 | |
| 9 | 83,625,000 | 83,775,000 | 1116 | 1570 | 0.094870646 | |
| 9 | 83,700,000 | 83,850,000 | 1117 | 1869 | -0.033316002 | |
| 9 | 83,775,000 | 83,925,000 | 1118 | 2148 | 0.021796792 | |
| 9 | 83,850,000 | 84,000,000 | 1119 | 2031 | 0.278443509 | |
| 9 | 83,925,000 | 84,075,000 | 1120 | 1797 | 0.428341642 | EPM2A |
| 9 | 84,000,000 | 84,150,000 | 1121 | 1562 | 0.47465089 | EPM2A |
| 9 | 84,075,000 | 84,225,000 | 1122 | 1146 | 0.289187315 | EPM2A,FBXO30 |
| 9 | 84,150,000 | 84,300,000 | 1123 | 871 | 0.153948789 | FBXO30,SHPRH |
| 9 | 84,225,000 | 84,375,000 | 1124 | 1175 | 0.385206929 | SHPRH |
| 9 | 84,300,000 | 84,450,000 | 1125 | 1413 | -0.463446471 | SHPRH |
| 9 | 84,375,000 | 84,525,000 | 1126 | 1579 | -0.670911229 | |
| 9 | 84,450,000 | 84,600,000 | 1127 | 1715 | -0.099924708 | |
| 9 | 84,525,000 | 84,675,000 | 1128 | 1468 | -0.294244546 | |
| 9 | 84,600,000 | 84,750,000 | 1129 | 1359 | 0.7326111 | GRM1 |
| 9 | 84,675,000 | 84,825,000 | 1130 | 1140 | 0.963493901 | GRM1 |
| 9 | 84,750,000 | 84,900,000 | 1131 | 685 | -1.628463489 | GRM1 |
| 9 | 84,825,000 | 84,975,000 | 1132 | 658 | -3.141429083 | RAB32 |
| 9 | 84,900,000 | 85,050,000 | 1133 | 888 | -1.215162898 | ADGB,RAB32 |
| 9 | 84,975,000 | 85,125,000 | 1134 | 1001 | 0.014750147 | ADGB |
| 9 | 85,050,000 | 85,200,000 | 1135 | 867 | 0.007837353 | ADGB |
| 9 | 85,125,000 | 85,275,000 | 1136 | 911 | -0.939537215 | ADGB |
| 9 | 85,200,000 | 85,350,000 | 1137 | 836 | -0.807620985 | ADGB |
| 9 | 85,275,000 | 85,425,000 | 1138 | 494 | 0.657331113 | |
| 9 | 85,350,000 | 85,500,000 | 1139 | 641 | 0.927308826 | |
| 9 | 85,425,000 | 85,575,000 | 1140 | 607 | 0.870448119 | |
| 9 | 85,500,000 | 85,650,000 | 1141 | 262 | 0.036537365 | STXBP5 |
| 9 | 85,575,000 | 85,725,000 | 1142 | 267 | -0.230683071 | STXBP5 |
| 9 | 85,650,000 | 85,800,000 | 1143 | 284 | -0.355140404 | STXBP5 |
| 9 | 85,725,000 | 85,875,000 | 1144 | 528 | -0.500460027 | STXBP5,ENSBTAG00000039444,ENSBTAG00000047224 |
| 9 | 85,800,000 | 85,950,000 | 1145 | 703 | 0.021846935 | SAMD5,ULBP3,ENSBTAG00000039444,ENSBTAG0000047224 |
| 9 | 85,875,000 | 86,025,000 | 1146 | 708 | 0.563464475 | SAMD5,ULBP3 |
| 9 | 85,950,000 | 86,100,000 | 1147 | 721 | -0.501421164 | SAMD5,ULBP3 |
| 9 | 86,025,000 | 86,175,000 | 1148 | 914 | -0.982409246 | |
| 9 | 86,100,000 | 86,250,000 | 1149 | 1242 | 0.631417748 | |
| 9 | 86,175,000 | 86,325,000 | 1150 | 1317 | 0.97020777 | |
| 9 | 86,250,000 | 86,400,000 | 1151 | 1336 | -0.176102675 | |
| 9 | 86,325,000 | 86,475,000 | 1152 | 1270 | -0.619056979 | |
| 9 | 86,400,000 | 86,550,000 | 1153 | 1143 | 0.657617906 | |
| 9 | 86,475,000 | 86,625,000 | 1154 | 1130 | 0.4520384 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|---|
| 9 | 86,550,000 | 86,700,000 | 1155 | 1021 | 0.183001035 | |
| 9 | 86,625,000 | 86,775,000 | 1156 | 1121 | 0.011762751 | |
| 9 | 86,700,000 | 86,850,000 | 1157 | 1205 | -0.629704227 | |
| 9 | 86,775,000 | 86,925,000 | 1158 | 1053 | -0.6626584 | SASH1 |
| 9 | 86,850,000 | 87,000,000 | 1159 | 927 | 0.14249883 | SASH1 |
| 9 | 86,925,000 | 87,075,000 | 1160 | 995 | 0.31669284 | SASH1 |
| 9 | 87,000,000 | 87,150,000 | 1161 | 1295 | 0.175466099 | |
| 9 | 87,075,000 | 87,225,000 | 1162 | 1180 | -0.076465614 | |
| 9 | 87,150,000 | 87,300,000 | 1163 | 1119 | 0.217803308 | |
| 9 | 87,225,000 | 87,375,000 | 1164 | 1213 | 0.306959014 | |
| 9 | 87,300,000 | 87,450,000 | 1165 | 1129 | 0.578250817 | |
| 9 | 87,375,000 | 87,525,000 | 1166 | 992 | 0.631094214 | |
| 9 | 87,450,000 | 87,600,000 | 1167 | 914 | -0.274593719 | |
| 9 | 87,525,000 | 87,675,000 | 1168 | 794 | 0.079134233 | |
| 9 | 87,600,000 | 87,750,000 | 1169 | 589 | 1.056829907 | |
| 9 | 87,675,000 | 87,825,000 | 1170 | 447 | 1.034690563 | TAB2 |
| 9 | 87,750,000 | 87,900,000 | 1171 | 440 | 0.493506811 | PPIL4,TAB2,ZC3H12D |
| 9 | 87,825,000 | 87,975,000 | 1172 | 492 | -0.502628666 | KATNA1,MGC133692,PPIL4,ZC3H12D |
| 9 | 87,900,000 | 88,050,000 | 1173 | 471 | -0.061759258 | KATNA1,LATS1,MGC133692,PPIL4 |
| 9 | 87,975,000 | 88,125,000 | 1174 | 624 | 0.889490379 | KATNA1,LATS1,LRP11,NUP43,PCMT1 |
| 9 | 88,050,000 | 88,200,000 | 1175 | 966 | -0.699508303 | LRP11,NUP43,PCMT1 |
| 9 | 88,125,000 | 88,275,000 | 1176 | 1114 | -0.028677543 | LRP11,RAET1G,ENSBTAG00000024751,ENSBTAG0000036061,ENSBTAG00000038891,ENSBTAG00000047902 |
| 9 | 88,200,000 | 88,350,000 | 1177 | 1074 | 0.275254549 | RAET1G,ENSBTAG00000024751,ENSBTAG00000036061,ENSBTAG00000038891,ENSBTAG00000039875,ENSBTAG00000047902 |
| 9 | 88,275,000 | 88,425,000 | 1178 | 1076 | 0.128241532 | PPP1R14C,RAET1G,ENSBTAG00000039875,ENSBTAG00000047902 |
| 9 | 88,350,000 | 88,500,000 | 1179 | 1109 | 0.690794399 | PPP1R14C,RAET1G |
| 9 | 88,425,000 | 88,575,000 | 1180 | 1325 | 0.399879267 | IYD,PPP1R14C |
| 9 | 88,500,000 | 88,650,000 | 1181 | 1055 | -0.095655876 | IYD,PPP1R14C,ENSBTAG00000048114 |
| 9 | 88,575,000 | 88,725,000 | 1182 | 786 | -0.35900425 | IYD,ENSBTAG00000048114 |
| 9 | 88,650,000 | 88,800,000 | 1183 | 820 | -0.677501336 | |
| 9 | 88,725,000 | 88,875,000 | 1184 | 558 | -0.683869924 | |
| 9 | 88,800,000 | 88,950,000 | 1185 | 637 | 0.487924857 | |
| 9 | 88,875,000 | 89,025,000 | 1186 | 856 | 1.009353014 | PLEKHG1 |
| 9 | 88,950,000 | 89,100,000 | 1187 | 848 | 0.86719618 | PLEKHG1 |
| 9 | 89,025,000 | 89,175,000 | 1188 | 653 | 0.151096162 | MTHFD1L,PLEKHG1 |
| 9 | 89,100,000 | 89,250,000 | 1189 | 857 | 0.480294217 | MTHFD1L,PLEKHG1 |
| 9 | 89,175,000 | 89,325,000 | 1190 | 1060 | 0.439957159 | MTHFD1L |
| 9 | 89,250,000 | 89,400,000 | 1191 | 842 | -0.230955144 | MTHFD1L |
| 9 | 89,325,000 | 89,475,000 | 1192 | 931 | 0.577141388 | |
| 9 | 89,400,000 | 89,550,000 | 1193 | 1229 | 0.350591825 | |
| 9 | 89,475,000 | 89,625,000 | 1194 | 1096 | -0.28322594 | AKAP12,RMND1,ZBTB2 |
| 9 | 89,550,000 | 89,700,000 | 1195 | 749 | -0.314748857 | AKAP12,C9H6orf211,RMND1,TOMM7,ZBTB2 |
| 9 | 89,625,000 | 89,775,000 | 1196 | 823 | -0.42267771 | C9H6orf211,CCDC170,RMND1,TOMM7 |
| 9 | 89,700,000 | 89,850,000 | 1197 | 1007 | -0.034091445 | CCDC170 |
| 9 | 89,775,000 | 89,925,000 | 1198 | 699 | 0.772447709 | CCDC170 |
| 9 | 89,850,000 | 90,000,000 | 1199 | 511 | 0.509652995 | ESR1 |
| 9 | 89,925,000 | 90,075,000 | 1200 | 765 | 0.099006613 | ESR1 |
| 9 | 90,000,000 | 90,150,000 | 1201 | 965 | 0.56413044 | ESR1 |
| 9 | 90,075,000 | 90,225,000 | 1202 | 900 | 0.984649423 | ESR1 |

| | | | | | | |
|---|------------|------------|------|------|--------------|---------------------------------------|
| 9 | 90,150,000 | 90,300,000 | 1203 | 948 | 0.759451139 | ESR1,SYNE1 |
| 9 | 90,225,000 | 90,375,000 | 1204 | 1272 | 0.497929111 | ESR1,SYNE1 |
| 9 | 90,300,000 | 90,450,000 | 1205 | 1246 | 0.59895857 | SYNE1 |
| 9 | 90,375,000 | 90,525,000 | 1206 | 938 | 0.739349654 | SYNE1 |
| 9 | 90,450,000 | 90,600,000 | 1207 | 1062 | 0.745672808 | SYNE1 |
| 9 | 90,525,000 | 90,675,000 | 1208 | 1524 | 0.636719621 | SYNE1 |
| 9 | 90,600,000 | 90,750,000 | 1209 | 1418 | 0.326875074 | SYNE1 |
| 9 | 90,675,000 | 90,825,000 | 1210 | 1048 | 0.813722886 | |
| 9 | 90,750,000 | 90,900,000 | 1211 | 996 | 1.076410421 | MYCT1,VIP |
| 9 | 90,825,000 | 90,975,000 | 1212 | 884 | 0.322410704 | MYCT1,VIP |
| 9 | 90,900,000 | 91,050,000 | 1213 | 831 | 0.319073093 | |
| 9 | 90,975,000 | 91,125,000 | 1214 | 815 | 0.906314795 | FBXO5,MTRF1L,RGS17 |
| 9 | 91,050,000 | 91,200,000 | 1215 | 773 | 0.55487704 | FBXO5,MTRF1L,RGS17 |
| 9 | 91,125,000 | 91,275,000 | 1216 | 739 | -0.026461118 | RGS17,ENSBTAG00000046219 |
| 9 | 91,200,000 | 91,350,000 | 1217 | 578 | -1.261155865 | ENSBTAG00000016405,ENSBTAG00000046219 |
| 9 | 91,275,000 | 91,425,000 | 1218 | 590 | -0.258610331 | ENSBTAG00000016405 |
| 9 | 91,350,000 | 91,500,000 | 1219 | 933 | 0.228980329 | |
| 9 | 91,425,000 | 91,575,000 | 1220 | 1307 | -0.170815847 | |
| 9 | 91,500,000 | 91,650,000 | 1221 | 1316 | -0.501760869 | |
| 9 | 91,575,000 | 91,725,000 | 1222 | 1130 | 0.296517479 | |
| 9 | 91,650,000 | 91,800,000 | 1223 | 1230 | 0.696990297 | |
| 9 | 91,725,000 | 91,875,000 | 1224 | 1570 | 0.457876897 | |
| 9 | 91,800,000 | 91,950,000 | 1225 | 1571 | 0.632121247 | |
| 9 | 91,875,000 | 92,025,000 | 1226 | 1390 | 0.827599893 | |
| 9 | 91,950,000 | 92,100,000 | 1227 | 1132 | 0.809699204 | |
| 9 | 92,025,000 | 92,175,000 | 1228 | 1021 | 0.041652605 | OPRM1 |
| 9 | 92,100,000 | 92,250,000 | 1229 | 992 | -0.283868572 | OPRM1,ENSBTAG00000003489 |
| 9 | 92,175,000 | 92,325,000 | 1230 | 1030 | -0.255534004 | OPRM1,ENSBTAG00000003489 |
| 9 | 92,250,000 | 92,400,000 | 1231 | 1032 | -2.648369883 | ENSBTAG00000003489 |
| 9 | 92,325,000 | 92,475,000 | 1232 | 1131 | -2.508230525 | ENSBTAG00000012674 |
| 9 | 92,400,000 | 92,550,000 | 1233 | 1448 | 0.246194129 | ENSBTAG00000012674 |
| 9 | 92,475,000 | 92,625,000 | 1234 | 1337 | 1.229056902 | ENSBTAG00000012674 |
| 9 | 92,550,000 | 92,700,000 | 1235 | 1141 | 1.272801891 | |
| 9 | 92,625,000 | 92,775,000 | 1236 | 1017 | 1.359105511 | |
| 9 | 92,700,000 | 92,850,000 | 1237 | 758 | 1.449269152 | SCAF8 |
| 9 | 92,775,000 | 92,925,000 | 1238 | 803 | 1.03157577 | SCAF8 |
| 9 | 92,850,000 | 93,000,000 | 1239 | 1061 | 0.775644572 | SCAF8 |
| 9 | 92,925,000 | 93,075,000 | 1240 | 826 | 0.67540325 | |
| 9 | 93,000,000 | 93,150,000 | 1241 | 828 | 0.553729296 | TIAM2 |
| 9 | 93,075,000 | 93,225,000 | 1242 | 1096 | 0.503561452 | TIAM2 |
| 9 | 93,150,000 | 93,300,000 | 1243 | 954 | 0.550386489 | CLDN20,TFB1M,TIAM2 |
| 9 | 93,225,000 | 93,375,000 | 1244 | 937 | 0.116409335 | CLDN20,NOX3,TFB1M,TIAM2 |
| 9 | 93,300,000 | 93,450,000 | 1245 | 1144 | 0.291184032 | NOX3,TFB1M |
| 9 | 93,375,000 | 93,525,000 | 1246 | 978 | 0.306149715 | NOX3 |
| 9 | 93,450,000 | 93,600,000 | 1247 | 873 | -0.554221676 | |
| 9 | 93,525,000 | 93,675,000 | 1248 | 873 | -0.033569959 | ENSBTAG00000035623 |
| 9 | 93,600,000 | 93,750,000 | 1249 | 1054 | 0.483396889 | ENSBTAG00000035623 |
| 9 | 93,675,000 | 93,825,000 | 1250 | 1331 | 0.10612463 | |
| 9 | 93,750,000 | 93,900,000 | 1251 | 1459 | -1.68405086 | |
| 9 | 93,825,000 | 93,975,000 | 1252 | 1655 | -1.681341211 | |
| 9 | 93,900,000 | 94,050,000 | 1253 | 1517 | -1.039135657 | |
| 9 | 93,975,000 | 94,125,000 | 1254 | 1280 | -1.130703921 | |
| 9 | 94,050,000 | 94,200,000 | 1255 | 1440 | -0.027768458 | |

| | | | | | | |
|---|------------|------------|------|------|--------------|------------------------------------|
| 9 | 94,125,000 | 94,275,000 | 1256 | 1454 | 0.452660416 | |
| 9 | 94,200,000 | 94,350,000 | 1257 | 1041 | 0.823642521 | |
| 9 | 94,275,000 | 94,425,000 | 1258 | 1153 | 1.041013246 | |
| 9 | 94,350,000 | 94,500,000 | 1259 | 1352 | 1.137174773 | |
| 9 | 94,425,000 | 94,575,000 | 1260 | 1295 | 1.091282308 | |
| 9 | 94,500,000 | 94,650,000 | 1261 | 1431 | 1.211072651 | |
| 9 | 94,575,000 | 94,725,000 | 1262 | 1580 | 1.169803908 | |
| 9 | 94,650,000 | 94,800,000 | 1263 | 1145 | 0.902860247 | |
| 9 | 94,725,000 | 94,875,000 | 1264 | 821 | 0.738284316 | |
| 9 | 94,800,000 | 94,950,000 | 1265 | 809 | 0.925708174 | ARID1B |
| 9 | 94,875,000 | 95,025,000 | 1266 | 625 | 1.031480684 | ARID1B |
| 9 | 94,950,000 | 95,100,000 | 1267 | 682 | 0.871619264 | ARID1B |
| 9 | 95,025,000 | 95,175,000 | 1268 | 867 | 0.794034073 | ARID1B,ENSBTAG00000045772 |
| 9 | 95,100,000 | 95,250,000 | 1269 | 797 | 0.761147985 | ARID1B,ENSBTAG00000045772 |
| 9 | 95,175,000 | 95,325,000 | 1270 | 976 | 0.905891457 | ARID1B |
| 9 | 95,250,000 | 95,400,000 | 1271 | 1329 | 1.128270085 | ARID1B,C9H6ORF35 |
| 9 | 95,325,000 | 95,475,000 | 1272 | 1333 | 1.202408053 | C9H6ORF35,ZDHHC14 |
| 9 | 95,400,000 | 95,550,000 | 1273 | 1208 | 0.906298786 | ZDHHC14 |
| 9 | 95,475,000 | 95,625,000 | 1274 | 1177 | 0.628870988 | ZDHHC14 |
| 9 | 95,550,000 | 95,700,000 | 1275 | 1387 | 0.817119725 | ZDHHC14 |
| 9 | 95,625,000 | 95,775,000 | 1276 | 1630 | 0.633059608 | ZDHHC14 |
| 9 | 95,700,000 | 95,850,000 | 1277 | 1415 | 0.083925755 | ZDHHC14 |
| 9 | 95,775,000 | 95,925,000 | 1278 | 827 | 0.049245474 | SNX9 |
| 9 | 95,850,000 | 96,000,000 | 1279 | 741 | 0.194635524 | SNX9 |
| 9 | 95,925,000 | 96,075,000 | 1280 | 1024 | -0.060193164 | SNX9,SYNJ2 |
| 9 | 96,000,000 | 96,150,000 | 1281 | 1277 | 0.781138351 | SERAC1,SYNJ2 |
| 9 | 96,075,000 | 96,225,000 | 1282 | 1022 | 0.942576482 | GTF2H5,SERAC1,SYNJ2 |
| 9 | 96,150,000 | 96,300,000 | 1283 | 646 | 0.190201309 | GTF2H5,TULP4 |
| 9 | 96,225,000 | 96,375,000 | 1284 | 867 | 0.436903879 | TULP4 |
| 9 | 96,300,000 | 96,450,000 | 1285 | 958 | 0.627850205 | TMEM181,TULP4 |
| 9 | 96,375,000 | 96,525,000 | 1286 | 1172 | 0.930501806 | DYNLT1,SYTL3,TMEM181,TULP4 |
| 9 | 96,450,000 | 96,600,000 | 1287 | 1777 | 0.268537104 | DYNLT1,EZR,SYTL3,TMEM181 |
| 9 | 96,525,000 | 96,675,000 | 1288 | 1622 | 0.005327013 | EZR,SYTL3 |
| 9 | 96,600,000 | 96,750,000 | 1289 | 1363 | 0.298423465 | EZR |
| 9 | 96,675,000 | 96,825,000 | 1290 | 1562 | 0.555055323 | RSPH3,TAGAP |
| 9 | 96,750,000 | 96,900,000 | 1291 | 1543 | 0.984495762 | RSPH3,TAGAP |
| 9 | 96,825,000 | 96,975,000 | 1292 | 1629 | 0.680931668 | FNDC1 |
| 9 | 96,900,000 | 97,050,000 | 1293 | 1755 | 0.254645116 | FNDC1 |
| 9 | 96,975,000 | 97,125,000 | 1294 | 1651 | 0.268070112 | FNDC1 |
| 9 | 97,050,000 | 97,200,000 | 1295 | 1656 | 0.641394254 | |
| 9 | 97,125,000 | 97,275,000 | 1296 | 1638 | 0.794115243 | |
| 9 | 97,200,000 | 97,350,000 | 1297 | 1629 | 0.181918875 | |
| 9 | 97,275,000 | 97,425,000 | 1298 | 1650 | -0.755559004 | SOD2 |
| 9 | 97,350,000 | 97,500,000 | 1299 | 1181 | -1.081222612 | ACAT2,MRPL18,SOD2,TCP1,WTAP |
| 9 | 97,425,000 | 97,575,000 | 1300 | 1014 | 0.088646646 | ACAT2,MAS1,MRPL18,PNLDC1,TCP1,WTAP |
| 9 | 97,500,000 | 97,650,000 | 1301 | 1006 | 0.551380742 | IGF2R,MAS1,PNLDC1 |
| 9 | 97,575,000 | 97,725,000 | 1302 | 721 | 0.64990309 | IGF2R |
| 9 | 97,650,000 | 97,800,000 | 1303 | 1047 | 0.436267087 | IGF2R,SLC22A1 |
| 9 | 97,725,000 | 97,875,000 | 1304 | 1513 | 0.495157938 | IGF2R,SLC22A1,SLC22A2 |
| 9 | 97,800,000 | 97,950,000 | 1305 | 1412 | 0.573718943 | SLC22A2,SLC22A3 |
| 9 | 97,875,000 | 98,025,000 | 1306 | 917 | 0.045779918 | PLG,SLC22A3 |
| 9 | 97,950,000 | 98,100,000 | 1307 | 901 | -0.507307534 | PLG,SLC22A3 |
| 9 | 98,025,000 | 98,175,000 | 1308 | 1357 | -0.331937753 | MAP3K4,PLG |

| | | | | | | |
|---|-------------|-------------|------|------|--------------|---------------------------|
| 9 | 98,100,000 | 98,250,000 | 1309 | 1317 | -0.156795987 | AGPAT4,MAP3K4 |
| 9 | 98,175,000 | 98,325,000 | 1310 | 1473 | 0.453829396 | AGPAT4,MAP3K4 |
| 9 | 98,250,000 | 98,400,000 | 1311 | 1559 | 0.862116557 | AGPAT4 |
| 9 | 98,325,000 | 98,475,000 | 1312 | 1675 | 1.056745292 | AGPAT4,PARK2 |
| 9 | 98,400,000 | 98,550,000 | 1313 | 2179 | 1.018428555 | PARK2 |
| 9 | 98,475,000 | 98,625,000 | 1314 | 2040 | 0.833125023 | PARK2 |
| 9 | 98,550,000 | 98,700,000 | 1315 | 1597 | 0.424842199 | PARK2 |
| 9 | 98,625,000 | 98,775,000 | 1316 | 1915 | -0.010009466 | PARK2 |
| 9 | 98,700,000 | 98,850,000 | 1317 | 2111 | -0.738442468 | PARK2 |
| 9 | 98,775,000 | 98,925,000 | 1318 | 1586 | 0.144748699 | PARK2 |
| 9 | 98,850,000 | 99,000,000 | 1319 | 1305 | 0.908856643 | PARK2 |
| 9 | 98,925,000 | 99,075,000 | 1320 | 1717 | -1.467485446 | PARK2 |
| 9 | 99,000,000 | 99,150,000 | 1321 | 2018 | -1.409935735 | PARK2 |
| 9 | 99,075,000 | 99,225,000 | 1322 | 2006 | -0.872873476 | PARK2 |
| 9 | 99,150,000 | 99,300,000 | 1323 | 2299 | -1.197129324 | PARK2 |
| 9 | 99,225,000 | 99,375,000 | 1324 | 1859 | -0.347522849 | PARK2 |
| 9 | 99,300,000 | 99,450,000 | 1325 | 1230 | 0.702853515 | PARK2 |
| 9 | 99,375,000 | 99,525,000 | 1326 | 1054 | 0.728969651 | PARK2 |
| 9 | 99,450,000 | 99,600,000 | 1327 | 872 | 0.502846831 | PARK2 |
| 9 | 99,525,000 | 99,675,000 | 1328 | 948 | 0.710953673 | PACRG,PARK2 |
| 9 | 99,600,000 | 99,750,000 | 1329 | 1173 | 0.754635818 | PACRG |
| 9 | 99,675,000 | 99,825,000 | 1330 | 1466 | 0.734886629 | PACRG |
| 9 | 99,750,000 | 99,900,000 | 1331 | 1394 | 0.666509578 | PACRG |
| 9 | 99,825,000 | 99,975,000 | 1332 | 1425 | -0.191325907 | PACRG |
| 9 | 99,900,000 | 100,050,000 | 1333 | 1730 | -0.303087298 | PACRG |
| 9 | 99,975,000 | 100,125,000 | 1334 | 1509 | 0.202926872 | PACRG |
| 9 | 100,050,000 | 100,200,000 | 1335 | 1213 | 0.584152618 | PACRG |
| 9 | 100,125,000 | 100,275,000 | 1336 | 1246 | 0.502234726 | PACRG |
| 9 | 100,200,000 | 100,350,000 | 1337 | 969 | 0.052573101 | ENSBTAG00000037598 |
| 9 | 100,275,000 | 100,425,000 | 1338 | 505 | -0.360703032 | QKI,ENSBTAG00000037598 |
| 9 | 100,350,000 | 100,500,000 | 1339 | 471 | 0.378423374 | QKI |
| 9 | 100,425,000 | 100,575,000 | 1340 | 853 | -1.903752315 | QKI |
| 9 | 100,500,000 | 100,650,000 | 1341 | 1175 | -0.789937943 | |
| 9 | 100,575,000 | 100,725,000 | 1342 | 1210 | 0.206801199 | |
| 9 | 100,650,000 | 100,800,000 | 1343 | 1233 | 0.184479443 | |
| 9 | 100,725,000 | 100,875,000 | 1344 | 1287 | 0.773856452 | |
| 9 | 100,800,000 | 100,950,000 | 1345 | 1515 | 0.220381153 | |
| 9 | 100,875,000 | 101,025,000 | 1346 | 1517 | -0.185695332 | |
| 9 | 100,950,000 | 101,100,000 | 1347 | 1446 | 0.178980905 | |
| 9 | 101,025,000 | 101,175,000 | 1348 | 1349 | 0.355303378 | |
| 9 | 101,100,000 | 101,250,000 | 1349 | 1144 | 0.425224992 | |
| 9 | 101,175,000 | 101,325,000 | 1350 | 947 | 0.083072787 | |
| 9 | 101,250,000 | 101,400,000 | 1351 | 876 | 0.632094815 | |
| 9 | 101,325,000 | 101,475,000 | 1352 | 868 | 1.047503498 | |
| 9 | 101,400,000 | 101,550,000 | 1353 | 1042 | 0.379491627 | |
| 9 | 101,475,000 | 101,625,000 | 1354 | 1143 | 0.139358548 | |
| 9 | 101,550,000 | 101,700,000 | 1355 | 1326 | 0.645092475 | |
| 9 | 101,625,000 | 101,775,000 | 1356 | 1638 | 0.680706508 | |
| 9 | 101,700,000 | 101,850,000 | 1357 | 1433 | 0.573976374 | |
| 9 | 101,775,000 | 101,925,000 | 1358 | 1230 | 0.305889664 | |
| 9 | 101,850,000 | 102,000,000 | 1359 | 1105 | 0.16737928 | MGC134132,PDE10A |
| 9 | 101,925,000 | 102,075,000 | 1360 | 1037 | 0.673346972 | MGC134132,PDE10A |
| 9 | 102,000,000 | 102,150,000 | 1361 | 1437 | 0.762553657 | PDE10A,ENSBTAG00000046733 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|---|
| 9 | 102,075,000 | 102,225,000 | 1362 | 1448 | 0.640660324 | ENSBTAG00000046733 |
| 9 | 102,150,000 | 102,300,000 | 1363 | 1037 | 0.78860993 | |
| 9 | 102,225,000 | 102,375,000 | 1364 | 1141 | 0.473273302 | |
| 9 | 102,300,000 | 102,450,000 | 1365 | 1058 | 0.21197329 | |
| 9 | 102,375,000 | 102,525,000 | 1366 | 1090 | 0.455286274 | |
| 9 | 102,450,000 | 102,600,000 | 1367 | 1169 | -0.29529194 | |
| 9 | 102,525,000 | 102,675,000 | 1368 | 1041 | -0.343914797 | T |
| 9 | 102,600,000 | 102,750,000 | 1369 | 792 | 0.213009725 | T |
| 9 | 102,675,000 | 102,825,000 | 1370 | 669 | 0.645947972 | T |
| 9 | 102,750,000 | 102,900,000 | 1371 | 1056 | 1.142959569 | MPC1,SFT2D1 |
| 9 | 102,825,000 | 102,975,000 | 1372 | 1391 | 1.050109284 | MPC1,RPS6KA2,SFT2D1 |
| 9 | 102,900,000 | 103,050,000 | 1373 | 1285 | 1.031705755 | RPS6KA2 |
| 9 | 102,975,000 | 103,125,000 | 1374 | 959 | 0.621673277 | RPS6KA2 |
| 9 | 103,050,000 | 103,200,000 | 1375 | 875 | -0.294998225 | RPS6KA2 |
| 9 | 103,125,000 | 103,275,000 | 1376 | 1016 | 0.390869333 | |
| 9 | 103,200,000 | 103,350,000 | 1377 | 990 | 0.503069787 | RNASET2 |
| 9 | 103,275,000 | 103,425,000 | 1378 | 706 | 0.167966343 | FGFR1OP,RNASET2 |
| 9 | 103,350,000 | 103,500,000 | 1379 | 640 | -0.182366548 | FGFR1OP,GPR31,ENSBTAG00000014496,ENSBTAG0000026133 |
| 9 | 103,425,000 | 103,575,000 | 1380 | 1025 | 0.126858528 | GPR31,TTLL2,UNC93A,ENSBTAG00000014496,ENSBTAG000000026133 |
| 9 | 103,500,000 | 103,650,000 | 1381 | 1815 | 0.42201491 | TTLL2,UNC93A,ENSBTAG00000026133 |
| 9 | 103,575,000 | 103,725,000 | 1382 | 2027 | -0.335147195 | |
| 9 | 103,650,000 | 103,800,000 | 1383 | 1689 | -0.423079236 | |
| 9 | 103,725,000 | 103,875,000 | 1384 | 1243 | 0.62465232 | MLLT4 |
| 9 | 103,800,000 | 103,950,000 | 1385 | 762 | 0.006833874 | KIF25,MLLT4 |
| 9 | 103,875,000 | 104,025,000 | 1386 | 959 | 0.417548073 | FRMD1,KIF25,MLLT4 |
| 9 | 103,950,000 | 104,100,000 | 1387 | 1128 | 0.445434457 | FRMD1,KIF25,ENSBTAG00000047235 |
| 9 | 104,025,000 | 104,175,000 | 1388 | 1039 | -0.1030555 | DACT2,ENSBTAG00000047235 |
| 9 | 104,100,000 | 104,250,000 | 1389 | 1371 | 0.42095868 | DACT2 |
| 9 | 104,175,000 | 104,325,000 | 1390 | 1559 | 0.313371158 | SMOC2 |
| 9 | 104,250,000 | 104,400,000 | 1391 | 1575 | 0.603558861 | SMOC2 |
| 9 | 104,325,000 | 104,475,000 | 1392 | 1506 | 0.982814969 | SMOC2 |
| 9 | 104,400,000 | 104,550,000 | 1393 | 1268 | 0.630498709 | |
| 9 | 104,475,000 | 104,625,000 | 1394 | 1175 | 0.590442808 | |
| 9 | 104,550,000 | 104,700,000 | 1395 | 1079 | 0.567254369 | |
| 9 | 104,625,000 | 104,775,000 | 1396 | 987 | 1.023191303 | THBS2 |
| 9 | 104,700,000 | 104,850,000 | 1397 | 1029 | 1.370051922 | THBS2 |
| 9 | 104,775,000 | 104,925,000 | 1398 | 1010 | 1.104727421 | |
| 9 | 104,850,000 | 105,000,000 | 1399 | 1073 | 0.710468997 | WDR27 |
| 9 | 104,925,000 | 105,075,000 | 1400 | 1022 | 0.946140161 | C9H6orf120,PHF10,WDR27 |
| 9 | 105,000,000 | 105,150,000 | 1401 | 720 | 1.144760426 | C9H6orf120,ERMARD,PHF10,TCTE3,WDR27 |
| 9 | 105,075,000 | 105,225,000 | 1402 | 744 | 0.680986806 | C9H6orf120,ERMARD,PHF10,TCTE3 |
| 9 | 105,150,000 | 105,300,000 | 1403 | 1002 | -0.210611434 | ERMARD |
| 9 | 105,225,000 | 105,375,000 | 1404 | 926 | -0.199362236 | |
| 9 | 105,300,000 | 105,450,000 | 1405 | 793 | 0.80417525 | |
| 9 | 105,375,000 | 105,525,000 | 1406 | 728 | 0.769849724 | DLL1 |
| 9 | 105,450,000 | 105,600,000 | 1407 | 624 | 0.453316139 | DLL1,FAM120B |
| 9 | 105,525,000 | 105,675,000 | 1408 | 627 | 1.153999444 | FAM120B,PSMB1 |
| 9 | 105,600,000 | 105,708,250 | 1409 | 456 | 1.351508808 | PDCD2,PSMB1,TBP |
| 10 | 0 | 150,000 | 1 | 510 | -0.859676131 | |
| 10 | 75,000 | 225,000 | 2 | 447 | -0.628643388 | ENSBTAG00000047105 |
| 10 | 150,000 | 300,000 | 3 | 771 | -0.138382226 | ENSBTAG00000017396,ENSBTAG00000047105 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------------------|
| 10 | 225,000 | 375,000 | 4 | 1084 | 0.113422257 | ENSBTAG00000003493,ENSBTAG00000017396 |
| 10 | 300,000 | 450,000 | 5 | 1214 | -0.803214033 | ENSBTAG00000003493 |
| 10 | 375,000 | 525,000 | 6 | 1364 | -0.03016571 | |
| 10 | 450,000 | 600,000 | 7 | 1171 | 0.929025951 | ENSBTAG00000046432 |
| 10 | 525,000 | 675,000 | 8 | 1063 | 0.306497762 | MCC,ENSBTAG00000046432 |
| 10 | 600,000 | 750,000 | 9 | 1143 | 0.09798284 | MCC |
| 10 | 675,000 | 825,000 | 10 | 921 | 0.129691675 | MCC |
| 10 | 750,000 | 900,000 | 11 | 1088 | 0.368554375 | MCC |
| 10 | 825,000 | 975,000 | 12 | 1061 | 0.467182315 | DCP2,MCC |
| 10 | 900,000 | 1,050,000 | 13 | 621 | 0.01294561 | DCP2,MCC,REEP5 |
| 10 | 975,000 | 1,125,000 | 14 | 901 | 0.352816762 | APC,DCP2,REEP5,SRP19 |
| 10 | 1,050,000 | 1,200,000 | 15 | 1194 | 0.97995505 | APC,REEP5,SRP19 |
| 10 | 1,125,000 | 1,275,000 | 16 | 1125 | 0.829571944 | APC |
| 10 | 1,200,000 | 1,350,000 | 17 | 1204 | 0.084778808 | APC |
| 10 | 1,275,000 | 1,425,000 | 18 | 1164 | 0.06129311 | |
| 10 | 1,350,000 | 1,500,000 | 19 | 1027 | -0.078803732 | EPB41L4A |
| 10 | 1,425,000 | 1,575,000 | 20 | 1118 | -0.454299775 | EPB41L4A |
| 10 | 1,500,000 | 1,650,000 | 21 | 1149 | -0.419670951 | EPB41L4A |
| 10 | 1,575,000 | 1,725,000 | 22 | 911 | -0.019420824 | EPB41L4A |
| 10 | 1,650,000 | 1,800,000 | 23 | 976 | -0.831564912 | EPB41L4A |
| 10 | 1,725,000 | 1,875,000 | 24 | 1454 | -0.977513399 | EPB41L4A |
| 10 | 1,800,000 | 1,950,000 | 25 | 1455 | -1.117101965 | |
| 10 | 1,875,000 | 2,025,000 | 26 | 1269 | -0.871735399 | |
| 10 | 1,950,000 | 2,100,000 | 27 | 1018 | 0.28818139 | |
| 10 | 2,025,000 | 2,175,000 | 28 | 985 | 0.962808684 | NREP |
| 10 | 2,100,000 | 2,250,000 | 29 | 1303 | 0.708542639 | NREP |
| 10 | 2,175,000 | 2,325,000 | 30 | 1265 | -0.152284455 | NREP |
| 10 | 2,250,000 | 2,400,000 | 31 | 1052 | -0.866281391 | YTHDC2 |
| 10 | 2,325,000 | 2,475,000 | 32 | 635 | -1.017161264 | YTHDC2 |
| 10 | 2,400,000 | 2,550,000 | 33 | 411 | -1.775770595 | YTHDC2 |
| 10 | 2,475,000 | 2,625,000 | 34 | 689 | -5.445628322 | |
| 10 | 2,550,000 | 2,700,000 | 35 | 859 | -3.158082164 | |
| 10 | 2,625,000 | 2,775,000 | 36 | 914 | 1.018997688 | |
| 10 | 2,700,000 | 2,850,000 | 37 | 1151 | 1.010293372 | |
| 10 | 2,775,000 | 2,925,000 | 38 | 1190 | 0.908620912 | |
| 10 | 2,850,000 | 3,000,000 | 39 | 1018 | 0.673573829 | |
| 10 | 2,925,000 | 3,075,000 | 40 | 736 | 0.490297915 | |
| 10 | 3,000,000 | 3,150,000 | 41 | 530 | -0.010317044 | |
| 10 | 3,075,000 | 3,225,000 | 42 | 472 | 0.258515992 | KCNN2 |
| 10 | 3,150,000 | 3,300,000 | 43 | 666 | -0.256578211 | KCNN2 |
| 10 | 3,225,000 | 3,375,000 | 44 | 1033 | -0.019303077 | KCNN2 |
| 10 | 3,300,000 | 3,450,000 | 45 | 931 | 0.509512554 | KCNN2 |
| 10 | 3,375,000 | 3,525,000 | 46 | 1098 | 0.990294161 | |
| 10 | 3,450,000 | 3,600,000 | 47 | 1556 | 1.136390894 | ENSBTAG00000023186 |
| 10 | 3,525,000 | 3,675,000 | 48 | 1466 | 1.084653638 | ENSBTAG00000023186 |
| 10 | 3,600,000 | 3,750,000 | 49 | 997 | 0.58759509 | |
| 10 | 3,675,000 | 3,825,000 | 50 | 807 | -1.211346287 | |
| 10 | 3,750,000 | 3,900,000 | 51 | 1143 | -0.050964532 | |
| 10 | 3,825,000 | 3,975,000 | 52 | 977 | 0.63841737 | TRIM36 |
| 10 | 3,900,000 | 4,050,000 | 53 | 788 | 0.201812069 | PGGT1B,TRIM36 |
| 10 | 3,975,000 | 4,125,000 | 54 | 837 | 0.969322671 | CCDC112,PGGT1B |
| 10 | 4,050,000 | 4,200,000 | 55 | 1255 | 0.849757867 | CCDC112,PGGT1B |
| 10 | 4,125,000 | 4,275,000 | 56 | 1804 | 0.864612776 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|-------------------------------|
| 10 | 4,200,000 | 4,350,000 | 57 | 1449 | 0.793489136 | FEM1C |
| 10 | 4,275,000 | 4,425,000 | 58 | 1193 | -0.342204772 | FEM1C,TICAM2,TMED7 |
| 10 | 4,350,000 | 4,500,000 | 59 | 1678 | -0.350628342 | TICAM2,TMED7 |
| 10 | 4,425,000 | 4,575,000 | 60 | 1800 | 0.159819303 | |
| 10 | 4,500,000 | 4,650,000 | 61 | 1499 | -0.22756038 | ATG12,CDO1,ENSBTAG00000048058 |
| 10 | 4,575,000 | 4,725,000 | 62 | 1423 | -0.843434314 | ATG12,CDO1,ENSBTAG00000048058 |
| 10 | 4,650,000 | 4,800,000 | 63 | 1646 | 0.342615183 | AQPEP,ATG12 |
| 10 | 4,725,000 | 4,875,000 | 64 | 1331 | 0.68752051 | AQPEP,ATG12,C10H11ORF46 |
| 10 | 4,800,000 | 4,950,000 | 65 | 627 | 0.280416587 | AQPEP,C10H11ORF46 |
| 10 | 4,875,000 | 5,025,000 | 66 | 375 | 0.374042547 | C10H11ORF46,P33MONOX,SIMC1 |
| 10 | 4,950,000 | 5,100,000 | 67 | 387 | 0.207972722 | P33MONOX,SIMC1 |
| 10 | 5,025,000 | 5,175,000 | 68 | 564 | 0.594281982 | THOC3 |
| 10 | 5,100,000 | 5,250,000 | 69 | 580 | 0.774277678 | CPLX2,THOC3 |
| 10 | 5,175,000 | 5,325,000 | 70 | 443 | 0.33704038 | CPLX2 |
| 10 | 5,250,000 | 5,400,000 | 71 | 750 | -0.028970192 | |
| 10 | 5,325,000 | 5,475,000 | 72 | 1111 | -0.289804761 | HRH2 |
| 10 | 5,400,000 | 5,550,000 | 73 | 1016 | -0.772955543 | HRH2 |
| 10 | 5,475,000 | 5,625,000 | 74 | 996 | -0.469565867 | SFXN1 |
| 10 | 5,550,000 | 5,700,000 | 75 | 770 | 0.499310175 | DRD1,SFXN1 |
| 10 | 5,625,000 | 5,775,000 | 76 | 701 | 1.460972451 | DRD1 |
| 10 | 5,700,000 | 5,850,000 | 77 | 1135 | 1.327214218 | |
| 10 | 5,775,000 | 5,925,000 | 78 | 1174 | 1.252252567 | |
| 10 | 5,850,000 | 6,000,000 | 79 | 1126 | 0.568220703 | |
| 10 | 5,925,000 | 6,075,000 | 80 | 1320 | 0.297274779 | |
| 10 | 6,000,000 | 6,150,000 | 81 | 1474 | 0.279537048 | |
| 10 | 6,075,000 | 6,225,000 | 82 | 1063 | -0.155680442 | |
| 10 | 6,150,000 | 6,300,000 | 83 | 975 | -0.678563431 | |
| 10 | 6,225,000 | 6,375,000 | 84 | 1543 | -0.587899457 | |
| 10 | 6,300,000 | 6,450,000 | 85 | 1521 | -0.636546421 | GCNT4 |
| 10 | 6,375,000 | 6,525,000 | 86 | 1294 | -0.557803927 | ANKRD31,GCNT4 |
| 10 | 6,450,000 | 6,600,000 | 87 | 1062 | -0.931638232 | ANKRD31 |
| 10 | 6,525,000 | 6,675,000 | 88 | 1166 | -1.400518755 | ANKRD31 |
| 10 | 6,600,000 | 6,750,000 | 89 | 1075 | -0.941136534 | COL4A3BP,HMGCR |
| 10 | 6,675,000 | 6,825,000 | 90 | 774 | -0.21648496 | COL4A3BP,HMGCR |
| 10 | 6,750,000 | 6,900,000 | 91 | 810 | 0.834661546 | COL4A3BP,POLK |
| 10 | 6,825,000 | 6,975,000 | 92 | 931 | 1.074654474 | ANKDD1B,COL4A3BP,POLK |
| 10 | 6,900,000 | 7,050,000 | 93 | 939 | 0.767167461 | ANKDD1B,MGC157319,POLK |
| 10 | 6,975,000 | 7,125,000 | 94 | 770 | 0.681629383 | ANKDD1B,MGC157319 |
| 10 | 7,050,000 | 7,200,000 | 95 | 785 | 0.847846123 | |
| 10 | 7,125,000 | 7,275,000 | 96 | 1074 | 0.700059114 | |
| 10 | 7,200,000 | 7,350,000 | 97 | 1305 | -0.753578371 | SV2C |
| 10 | 7,275,000 | 7,425,000 | 98 | 1651 | -0.776341733 | SV2C |
| 10 | 7,350,000 | 7,500,000 | 99 | 1767 | 0.4008757 | SV2C |
| 10 | 7,425,000 | 7,575,000 | 100 | 1252 | -0.846654995 | IQGAP2,SV2C |
| 10 | 7,500,000 | 7,650,000 | 101 | 921 | -2.80225785 | IQGAP2,SV2C |
| 10 | 7,575,000 | 7,725,000 | 102 | 935 | -1.39214875 | IQGAP2 |
| 10 | 7,650,000 | 7,800,000 | 103 | 1025 | 0.192280066 | F2RL2,IQGAP2 |
| 10 | 7,725,000 | 7,875,000 | 104 | 1148 | 0.825784853 | F2RL2,IQGAP2 |
| 10 | 7,800,000 | 7,950,000 | 105 | 1099 | 0.717551304 | F2R,IQGAP2 |
| 10 | 7,875,000 | 8,025,000 | 106 | 942 | 0.50409827 | F2R,F2RL1,S100Z |
| 10 | 7,950,000 | 8,100,000 | 107 | 1044 | 0.962533197 | CRHBP,F2RL1,S100Z |
| 10 | 8,025,000 | 8,175,000 | 108 | 960 | 0.853566591 | AGGF1,CRHBP |
| 10 | 8,100,000 | 8,250,000 | 109 | 1040 | 0.38915685 | AGGF1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 10 | 8,175,000 | 8,325,000 | 110 | 1206 | 0.333794616 | |
| 10 | 8,250,000 | 8,400,000 | 111 | 1025 | 0.272330595 | |
| 10 | 8,325,000 | 8,475,000 | 112 | 1048 | 0.509488258 | PDE8B |
| 10 | 8,400,000 | 8,550,000 | 113 | 1354 | 0.198023019 | PDE8B,WDR41 |
| 10 | 8,475,000 | 8,625,000 | 114 | 1164 | 0.282881248 | PDE8B,WDR41 |
| 10 | 8,550,000 | 8,700,000 | 115 | 814 | 1.128060627 | OTP,WDR41 |
| 10 | 8,625,000 | 8,775,000 | 116 | 819 | 1.118567945 | OTP,TBCA |
| 10 | 8,700,000 | 8,850,000 | 117 | 806 | -0.30323285 | TBCA |
| 10 | 8,775,000 | 8,925,000 | 118 | 983 | 0.041915435 | TBCA |
| 10 | 8,850,000 | 9,000,000 | 119 | 982 | 0.463243958 | |
| 10 | 8,925,000 | 9,075,000 | 120 | 845 | 0.449088054 | AP3B1 |
| 10 | 9,000,000 | 9,150,000 | 121 | 807 | 1.205042862 | AP3B1 |
| 10 | 9,075,000 | 9,225,000 | 122 | 995 | 1.293483401 | AP3B1 |
| 10 | 9,150,000 | 9,300,000 | 123 | 1393 | 1.409687225 | AP3B1 |
| 10 | 9,225,000 | 9,375,000 | 124 | 1426 | 0.392823217 | AP3B1,SCAMP1 |
| 10 | 9,300,000 | 9,450,000 | 125 | 1207 | -0.775378625 | AP3B1,SCAMP1 |
| 10 | 9,375,000 | 9,525,000 | 126 | 1231 | 0.164713272 | LHFPL2,SCAMP1 |
| 10 | 9,450,000 | 9,600,000 | 127 | 1072 | 0.441338311 | LHFPL2,SCAMP1 |
| 10 | 9,525,000 | 9,675,000 | 128 | 855 | -0.322655624 | LHFPL2 |
| 10 | 9,600,000 | 9,750,000 | 129 | 779 | -0.378337669 | |
| 10 | 9,675,000 | 9,825,000 | 130 | 637 | 0.990457298 | ARSB |
| 10 | 9,750,000 | 9,900,000 | 131 | 671 | 1.297963021 | ARSB |
| 10 | 9,825,000 | 9,975,000 | 132 | 792 | 0.961868532 | ARSB |
| 10 | 9,900,000 | 10,050,000 | 133 | 693 | 0.428897859 | ARSB,DMGDH |
| 10 | 9,975,000 | 10,125,000 | 134 | 703 | -0.006186091 | BHMT2,DMGDH |
| 10 | 10,050,000 | 10,200,000 | 135 | 885 | -0.191627271 | BHMT,BHMT2,DMGDH |
| 10 | 10,125,000 | 10,275,000 | 136 | 859 | -0.019306885 | BHMT,JMY |
| 10 | 10,200,000 | 10,350,000 | 137 | 744 | 0.117896917 | JMY |
| 10 | 10,275,000 | 10,425,000 | 138 | 966 | -0.321835797 | HOMER1,JMY |
| 10 | 10,350,000 | 10,500,000 | 139 | 1125 | -0.938761275 | HOMER1 |
| 10 | 10,425,000 | 10,575,000 | 140 | 990 | -2.522311902 | HOMER1,PAPD4 |
| 10 | 10,500,000 | 10,650,000 | 141 | 976 | -2.153990089 | PAPD4 |
| 10 | 10,575,000 | 10,725,000 | 142 | 961 | -0.831144865 | CMYA5,PAPD4 |
| 10 | 10,650,000 | 10,800,000 | 143 | 1181 | 0.095794171 | CMYA5 |
| 10 | 10,725,000 | 10,875,000 | 144 | 1289 | 0.136989676 | |
| 10 | 10,800,000 | 10,950,000 | 145 | 1001 | -0.082625557 | MTX3,THBS4 |
| 10 | 10,875,000 | 11,025,000 | 146 | 1227 | 0.756961449 | MTX3,THBS4 |
| 10 | 10,950,000 | 11,100,000 | 147 | 1525 | 0.405372925 | SERINC5,THBS4 |
| 10 | 11,025,000 | 11,175,000 | 148 | 1425 | 0.036020264 | SERINC5 |
| 10 | 11,100,000 | 11,250,000 | 149 | 1423 | 0.237536228 | SERINC5 |
| 10 | 11,175,000 | 11,325,000 | 150 | 931 | -0.175596457 | |
| 10 | 11,250,000 | 11,400,000 | 151 | 360 | -0.82849808 | GNPNAT1,STYX |
| 10 | 11,325,000 | 11,475,000 | 152 | 573 | 1.065233529 | ERO1L,GNPNAT1,PSMC6,STYX |
| 10 | 11,400,000 | 11,550,000 | 153 | 924 | 0.926555396 | ERO1L,GPR137C,PSMC6 |
| 10 | 11,475,000 | 11,625,000 | 154 | 895 | 0.673201351 | ERO1L,GPR137C,TXNDC16 |
| 10 | 11,550,000 | 11,700,000 | 155 | 832 | 0.404617958 | GPR137C,TXNDC16 |
| 10 | 11,625,000 | 11,775,000 | 156 | 774 | 0.045873465 | PTGER2,TXNDC16 |
| 10 | 11,700,000 | 11,850,000 | 157 | 575 | 0.581996609 | ANKDD1A,PTGER2 |
| 10 | 11,775,000 | 11,925,000 | 158 | 599 | 0.914045692 | ANKDD1A,MTFMT,PTGER2,SPG21 |
| 10 | 11,850,000 | 12,000,000 | 159 | 837 | 0.634033524 | KBTBD13,MTFMT,RASL12,SLC51B,SPG21 |
| 10 | 11,925,000 | 12,075,000 | 160 | 657 | 0.42635504 | CLPX,KBTBD13,PDCD7,RASL12,SLC51B |
| 10 | 12,000,000 | 12,150,000 | 161 | 708 | 0.784702354 | CILP,CLPX,PDCD7 |
| 10 | 12,075,000 | 12,225,000 | 162 | 942 | 0.964291562 | CILP,IGDCC3,PARP16 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 10 | 12,150,000 | 12,300,000 | 163 | 684 | 0.814426856 | IGDCC3,IGDCC4,PARP16 |
| 10 | 12,225,000 | 12,375,000 | 164 | 426 | 0.438749434 | DPP8,IGDCC3,IGDCC4 |
| 10 | 12,300,000 | 12,450,000 | 165 | 411 | 0.27642459 | DPP8,PTPLAD1,VWA9 |
| 10 | 12,375,000 | 12,525,000 | 166 | 373 | 0.21042504 | DENND4A,PTPLAD1,SLC24A1,VWA9 |
| 10 | 12,450,000 | 12,600,000 | 167 | 266 | 0.24483589 | DENND4A,SLC24A1 |
| 10 | 12,525,000 | 12,675,000 | 168 | 284 | 0.73961765 | DENND4A |
| 10 | 12,600,000 | 12,750,000 | 169 | 335 | 0.448466706 | MEGF11,RAB11A |
| 10 | 12,675,000 | 12,825,000 | 170 | 753 | -1.516994635 | MEGF11,RAB11A |
| 10 | 12,750,000 | 12,900,000 | 171 | 1249 | -1.01193711 | MEGF11 |
| 10 | 12,825,000 | 12,975,000 | 172 | 1284 | 0.246763052 | |
| 10 | 12,900,000 | 13,050,000 | 173 | 1178 | 0.378341383 | |
| 10 | 12,975,000 | 13,125,000 | 174 | 1116 | -0.467113666 | |
| 10 | 13,050,000 | 13,200,000 | 175 | 1241 | -0.429385548 | DIS3L,TIPIN |
| 10 | 13,125,000 | 13,275,000 | 176 | 1055 | 0.088488457 | DIS3L,MAP2K1,TIPIN |
| 10 | 13,200,000 | 13,350,000 | 177 | 568 | -0.677971987 | MAP2K1,RPL4,SNAPC5,TIPIN,ZWILCH |
| 10 | 13,275,000 | 13,425,000 | 178 | 384 | -0.690772611 | LCTL,MAP2K1,RPL4,SNAPC5,ZWILCH |
| 10 | 13,350,000 | 13,500,000 | 179 | 301 | -0.698029891 | LCTL,ZWILCH |
| 10 | 13,425,000 | 13,575,000 | 180 | 445 | 0.172877023 | SMAD6 |
| 10 | 13,500,000 | 13,650,000 | 181 | 959 | 0.509586364 | SMAD6 |
| 10 | 13,575,000 | 13,725,000 | 182 | 1446 | 0.399344608 | SMAD6 |
| 10 | 13,650,000 | 13,800,000 | 183 | 1383 | 0.571332584 | |
| 10 | 13,725,000 | 13,875,000 | 184 | 833 | 0.80357759 | |
| 10 | 13,800,000 | 13,950,000 | 185 | 800 | 0.828511022 | |
| 10 | 13,875,000 | 14,025,000 | 186 | 702 | 0.562080388 | MGC152585,SMAD3 |
| 10 | 13,950,000 | 14,100,000 | 187 | 576 | 0.121895943 | IQCH,MGC152585,SMAD3 |
| 10 | 14,025,000 | 14,175,000 | 188 | 606 | 0.140128694 | IQCH,MGC152585 |
| 10 | 14,100,000 | 14,250,000 | 189 | 631 | 0.101827151 | IQCH |
| 10 | 14,175,000 | 14,325,000 | 190 | 703 | -0.73176361 | IQCH |
| 10 | 14,250,000 | 14,400,000 | 191 | 589 | -1.410795912 | C15orf61,IQCH,MAP2K5 |
| 10 | 14,325,000 | 14,475,000 | 192 | 672 | 0.172749025 | C15orf61,MAP2K5 |
| 10 | 14,400,000 | 14,550,000 | 193 | 564 | 0.110537347 | MAP2K5 |
| 10 | 14,475,000 | 14,625,000 | 194 | 687 | -0.085614883 | MAP2K5 |
| 10 | 14,550,000 | 14,700,000 | 195 | 1067 | 0.535955085 | MAP2K5,SKOR1 |
| 10 | 14,625,000 | 14,775,000 | 196 | 1062 | 0.51915196 | MAP2K5,SKOR1 |
| 10 | 14,700,000 | 14,850,000 | 197 | 860 | 0.630781345 | |
| 10 | 14,775,000 | 14,925,000 | 198 | 648 | 0.568716753 | PIAS1 |
| 10 | 14,850,000 | 15,000,000 | 199 | 488 | 0.280814817 | PIAS1 |
| 10 | 14,925,000 | 15,075,000 | 200 | 816 | 0.447164564 | CALML4,CLN6,PIAS1 |
| 10 | 15,000,000 | 15,150,000 | 201 | 965 | 0.160544911 | CALML4,CLN6,FEM1B,ITGA11,PIAS1 |
| 10 | 15,075,000 | 15,225,000 | 202 | 939 | -0.856700571 | FEM1B,ITGA11 |
| 10 | 15,150,000 | 15,300,000 | 203 | 1147 | -0.467260738 | ITGA11 |
| 10 | 15,225,000 | 15,375,000 | 204 | 1082 | 0.0341571 | |
| 10 | 15,300,000 | 15,450,000 | 205 | 875 | 0.248341433 | |
| 10 | 15,375,000 | 15,525,000 | 206 | 885 | 0.204368999 | CORO2B |
| 10 | 15,450,000 | 15,600,000 | 207 | 1023 | -1.531585211 | ANP32A,CORO2B,ENSBTAG00000045866 |
| 10 | 15,525,000 | 15,675,000 | 208 | 1041 | -1.578919901 | ANP32A,CORO2B,ENSBTAG00000045866 |
| 10 | 15,600,000 | 15,750,000 | 209 | 1040 | -0.303259254 | ANP32A,SPESP1 |
| 10 | 15,675,000 | 15,825,000 | 210 | 1062 | 0.20166137 | SPESP1 |
| 10 | 15,750,000 | 15,900,000 | 211 | 1396 | -0.987731206 | NOX5,SPESP1 |
| 10 | 15,825,000 | 15,975,000 | 212 | 1303 | -1.909357206 | NOX5 |
| 10 | 15,900,000 | 16,050,000 | 213 | 637 | -1.440235219 | |
| 10 | 15,975,000 | 16,125,000 | 214 | 366 | -0.70224254 | GLCE |
| 10 | 16,050,000 | 16,200,000 | 215 | 798 | 0.387205085 | GLCE,PAQR5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 16,125,000 | 16,275,000 | 216 | 1153 | 0.758008017 | KIF23,PAQR5 |
| 10 | 16,200,000 | 16,350,000 | 217 | 1073 | 0.848319464 | KIF23,PAQR5,RPLP1 |
| 10 | 16,275,000 | 16,425,000 | 218 | 1109 | 0.331350277 | KIF23,RPLP1 |
| 10 | 16,350,000 | 16,500,000 | 219 | 1247 | 0.252287514 | |
| 10 | 16,425,000 | 16,575,000 | 220 | 1248 | 0.693363108 | |
| 10 | 16,500,000 | 16,650,000 | 221 | 1011 | -0.04024972 | |
| 10 | 16,575,000 | 16,725,000 | 222 | 827 | -0.173151255 | |
| 10 | 16,650,000 | 16,800,000 | 223 | 1008 | -0.101979838 | |
| 10 | 16,725,000 | 16,875,000 | 224 | 1099 | -0.044235469 | |
| 10 | 16,800,000 | 16,950,000 | 225 | 756 | -0.446074555 | TLE3 |
| 10 | 16,875,000 | 17,025,000 | 226 | 528 | -1.096378635 | TLE3 |
| 10 | 16,950,000 | 17,100,000 | 227 | 842 | -0.584118697 | |
| 10 | 17,025,000 | 17,175,000 | 228 | 1110 | 0.151043449 | |
| 10 | 17,100,000 | 17,250,000 | 229 | 711 | 0.693410598 | ENSBTAG00000030439 |
| 10 | 17,175,000 | 17,325,000 | 230 | 405 | -0.134072237 | ENSBTAG00000030439 |
| 10 | 17,250,000 | 17,400,000 | 231 | 617 | -0.211456929 | |
| 10 | 17,325,000 | 17,475,000 | 232 | 753 | 0.375443219 | |
| 10 | 17,400,000 | 17,550,000 | 233 | 625 | 0.73405183 | UACA |
| 10 | 17,475,000 | 17,625,000 | 234 | 611 | 0.28334759 | UACA |
| 10 | 17,550,000 | 17,700,000 | 235 | 1038 | 0.452878003 | LARP6,UACA |
| 10 | 17,625,000 | 17,775,000 | 236 | 989 | 0.441559044 | LARP6,LRRC49,THAP10 |
| 10 | 17,700,000 | 17,850,000 | 237 | 891 | -1.543327485 | LRRC49,THAP10 |
| 10 | 17,775,000 | 17,925,000 | 238 | 1185 | -1.241600305 | LRRC49 |
| 10 | 17,850,000 | 18,000,000 | 239 | 987 | -0.104520887 | LRRC49 |
| 10 | 17,925,000 | 18,075,000 | 240 | 796 | 0.499576001 | |
| 10 | 18,000,000 | 18,150,000 | 241 | 574 | 0.785982354 | |
| 10 | 18,075,000 | 18,225,000 | 242 | 705 | 0.31327767 | |
| 10 | 18,150,000 | 18,300,000 | 243 | 890 | -0.360163093 | |
| 10 | 18,225,000 | 18,375,000 | 244 | 940 | -0.340196236 | |
| 10 | 18,300,000 | 18,450,000 | 245 | 1174 | -0.026649317 | |
| 10 | 18,375,000 | 18,525,000 | 246 | 1110 | -0.367690659 | THSD4 |
| 10 | 18,450,000 | 18,600,000 | 247 | 1361 | -0.195576624 | THSD4 |
| 10 | 18,525,000 | 18,675,000 | 248 | 1613 | 0.380654749 | NR2E3,THSD4,ENSBTAG00000007433 |
| 10 | 18,600,000 | 18,750,000 | 249 | 1279 | 0.899670417 | NR2E3,THSD4,ENSBTAG00000007433 |
| 10 | 18,675,000 | 18,825,000 | 250 | 865 | 0.865150013 | ENSBTAG00000007433 |
| 10 | 18,750,000 | 18,900,000 | 251 | 671 | 0.273519055 | ENSBTAG00000007433,ENSBTAG00000033344 |
| 10 | 18,825,000 | 18,975,000 | 252 | 739 | -0.306904986 | GRAMD2,PKM2,ENSBTAG00000007433,ENSBTAG00000033344 |
| 10 | 18,900,000 | 19,050,000 | 253 | 604 | -0.354015436 | GRAMD2,PARP6,PKM2,ENSBTAG00000014092,ENSBTAG00000033344 |
| 10 | 18,975,000 | 19,125,000 | 254 | 804 | -0.741146985 | HEXA,PARP6,PKM2,ENSBTAG00000014092 |
| 10 | 19,050,000 | 19,200,000 | 255 | 1229 | 0.167189277 | ARIH1,HEXA,TMEM202,ENSBTAG00000014092 |
| 10 | 19,125,000 | 19,275,000 | 256 | 860 | 1.126801862 | ARIH1,HEXA,TMEM202 |
| 10 | 19,200,000 | 19,350,000 | 257 | 596 | 0.997878882 | ARIH1,BBS4 |
| 10 | 19,275,000 | 19,425,000 | 258 | 818 | 0.991849164 | ADPGK,ARIH1,BBS4 |
| 10 | 19,350,000 | 19,500,000 | 259 | 1186 | 0.76806665 | ADPGK,BBS4 |
| 10 | 19,425,000 | 19,575,000 | 260 | 1448 | 0.993494056 | |
| 10 | 19,500,000 | 19,650,000 | 261 | 1094 | 1.128323397 | |
| 10 | 19,575,000 | 19,725,000 | 262 | 652 | 1.053464364 | |
| 10 | 19,650,000 | 19,800,000 | 263 | 679 | 0.791986868 | NEO1 |
| 10 | 19,725,000 | 19,875,000 | 264 | 478 | 0.427546762 | NEO1 |
| 10 | 19,800,000 | 19,950,000 | 265 | 317 | 0.49560469 | NEO1 |
| 10 | 19,875,000 | 20,025,000 | 266 | 622 | 0.322469158 | HCN4,NEO1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 19,950,000 | 20,100,000 | 267 | 836 | 0.171442557 | HCN4,NEO1 |
| 10 | 20,025,000 | 20,175,000 | 268 | 931 | 0.310916492 | |
| 10 | 20,100,000 | 20,250,000 | 269 | 840 | 0.544105051 | NPTN |
| 10 | 20,175,000 | 20,325,000 | 270 | 701 | 0.603180527 | NPTN |
| 10 | 20,250,000 | 20,400,000 | 271 | 731 | 0.121925746 | C15orf59,CD276,NPTN |
| 10 | 20,325,000 | 20,475,000 | 272 | 853 | 0.375074178 | C15orf59,CD276 |
| 10 | 20,400,000 | 20,550,000 | 273 | 1034 | 0.696711904 | TBC1D21 |
| 10 | 20,475,000 | 20,625,000 | 274 | 1057 | 0.48367123 | CBLN3,KHNYN,NYNRIN,SDR39U1,TBC1D21 |
| 10 | 20,550,000 | 20,700,000 | 275 | 796 | 0.45624134 | ADCY4,C10H14orf21,CBLN3,CIDEB,KHNYN,LTB4R,LTB4R2,NFATC4,NYNRIN,RIPK3,SDR39U1 |
| 10 | 20,625,000 | 20,775,000 | 276 | 750 | -0.511206036 | ADCY4,C10H14orf21,CIDEB,DHRS1,GMPT2,LTB4R,LTB4R2,NFATC4,RABGGTA,RIPK3,TGM1,TINF2 |
| 10 | 20,700,000 | 20,850,000 | 277 | 728 | -0.964192549 | C10H14orf21,CHMP4A,DHRS1,EMC9,GMPT2,IPO4,ISGF3G,MDP-1,NEDD8,PSME1,PSME2,RABGGTA,REC8,TGM1,TINF2,TSSK4,ENSBTAG0000002709,ENSBTAG0000005815 |
| 10 | 20,775,000 | 20,925,000 | 278 | 607 | -0.048543477 | CHMP4A,CPNE6,DHRS4,EMC9,FITM1,IPO4,ISGF3G,LRRC16B,MDP-1,NEDD8,NRL,PCK2,PSME1,PSME2,REC8,TSSK4,WDR23,ENSBTAG0000002709,ENSBTAG0000005815 |
| 10 | 20,850,000 | 21,000,000 | 279 | 1015 | -0.239167588 | CPNE6,DHRS4,FITM1,LRRC16B,NRL,PCK2,WDR23,ENSBTAG00000045993 |
| 10 | 20,925,000 | 21,075,000 | 280 | 1395 | 0.398182754 | DHRS4,ENSBTAG00000030841,ENSBTAG00000045993 |
| 10 | 21,000,000 | 21,150,000 | 281 | 1228 | 0.975563037 | ENSBTAG00000030841 |
| 10 | 21,075,000 | 21,225,000 | 282 | 1001 | 0.516616448 | AP1G2,JPH4,THTPA |
| 10 | 21,150,000 | 21,300,000 | 283 | 684 | -0.058696057 | AP1G2,JPH4,NGDN,THTPA,ZFH2 |
| 10 | 21,225,000 | 21,375,000 | 284 | 634 | 1.020108489 | MYH7,NGDN,THTPA,ZFH2 |
| 10 | 21,300,000 | 21,450,000 | 285 | 598 | 1.178357269 | BCL2L2,CMTM5,EFS,IL25,MYH7,NGDN,PABPN1,PPP1R3E,SLC22A17 |
| 10 | 21,375,000 | 21,525,000 | 286 | 369 | 0.950842551 | BCL2L2,CMTM5,EFS,IL25,KIAA1443,MYH7,PABPN1,PPP1R3E,RNF212B,SLC22A17,SLC7A8 |
| 10 | 21,450,000 | 21,600,000 | 287 | 357 | -0.057293848 | ACIN1,C14orf119,CEBPE,KIAA1443,RNF212B,SLC7A8 |
| 10 | 21,525,000 | 21,675,000 | 288 | 431 | -1.015196776 | ACIN1,C14orf119,CDH24,CEBPE,PSMB11,PSMB5,SLC7A8 |
| 10 | 21,600,000 | 21,750,000 | 289 | 468 | -1.114033748 | ACIN1,AJUBA,C10H14ORF93,CDH24,PSMB11,PSMB5,ENSBTAG00000012723 |
| 10 | 21,675,000 | 21,825,000 | 290 | 423 | -0.803111796 | AJUBA,C10H14ORF93,LRP10,MMP14,MRPL52,PRMT5,RBM23,REM2,ENSBTAG00000012723 |
| 10 | 21,750,000 | 21,900,000 | 291 | 313 | 0.054673108 | LRP10,MMP14,MRPL52,OXA1L,PRMT5,RBM23,REM2,SLC7A7 |
| 10 | 21,825,000 | 21,975,000 | 292 | 360 | -1.977867743 | OXA1L,SLC7A7,ENSBTAG00000046906,ENSBTAG0000047305,ENSBTAG00000047672,ENSBTAG00000047893 |
| 10 | 21,900,000 | 22,050,000 | 293 | 802 | -3.236323387 | ABHD4,OR6J1,ENSBTAG00000009274,ENSBTAG0000045760,ENSBTAG00000046906,ENSBTAG00000047305,ENSBTAG00000047672,ENSBTAG00000047893 |
| 10 | 21,975,000 | 22,125,000 | 294 | 852 | -1.699870806 | ABHD4,DAD1,OR6J1,TRAC,ENSBTAG00000009274,ENSBTAG00000045760 |
| 10 | 22,050,000 | 22,200,000 | 295 | 1057 | 0.517729376 | ABHD4,DAD1,TRAC,TRD@ |
| 10 | 22,125,000 | 22,275,000 | 296 | 1606 | 0.640111739 | TRAC,TRD@ |
| 10 | 22,200,000 | 22,350,000 | 297 | 1477 | 0.877631167 | TRAC,TRD@,TRDV2,ENSBTAG00000039402 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 22,275,000 | 22,425,000 | 298 | 1401 | 0.850495422 | TRAC,TRDV2,ENSBTAG00000039402 |
| 10 | 22,350,000 | 22,500,000 | 299 | 2056 | 0.778807876 | TRAC,TRDV2,ENSBTAG00000039402 |
| 10 | 22,425,000 | 22,575,000 | 300 | 2181 | 0.653288894 | TRAC,ENSBTAG00000039402,ENSBTAG00000046962 |
| 10 | 22,500,000 | 22,650,000 | 301 | 1749 | 0.643246687 | TRAC,ENSBTAG00000045595,ENSBTAG00000046962,ENSBTAG00000047258 |
| 10 | 22,575,000 | 22,725,000 | 302 | 1673 | 0.679323006 | TRAC,ENSBTAG00000045595,ENSBTAG00000045758,ENSBTAG00000047258,ENSBTAG00000048302 |
| 10 | 22,650,000 | 22,800,000 | 303 | 1680 | 0.660434299 | TRAC,ENSBTAG00000045758,ENSBTAG00000046464,ENSBTAG00000048302 |
| 10 | 22,725,000 | 22,875,000 | 304 | 1580 | 0.372719943 | TRAC,ENSBTAG00000039077,ENSBTAG00000046464,ENSBTAG00000046530,ENSBTAG00000047041,ENSBTAG00000047444 |
| 10 | 22,800,000 | 22,950,000 | 305 | 2320 | 0.784811073 | TRAC,ENSBTAG00000039077,ENSBTAG00000046530,ENSBTAG00000046682,ENSBTAG00000047041,ENSBTAG00000047444 |
| 10 | 22,875,000 | 23,025,000 | 306 | 2408 | 0.978310632 | TRAC,ENSBTAG00000046682 |
| 10 | 22,950,000 | 23,100,000 | 307 | 1684 | 1.082157077 | TRAC,TRAV29DV5 |
| 10 | 23,025,000 | 23,175,000 | 308 | 1882 | 0.766615152 | TRAC,TRAV29DV5,ENSBTAG00000047276 |
| 10 | 23,100,000 | 23,250,000 | 309 | 1374 | 0.026965784 | TRAC,ENSBTAG00000036202,ENSBTAG00000047276,ENSBTAG00000048064 |
| 10 | 23,175,000 | 23,325,000 | 310 | 590 | -2.747751994 | TRAC,ENSBTAG00000036202,ENSBTAG00000048064 |
| 10 | 23,250,000 | 23,400,000 | 311 | 1242 | -1.262329182 | TRAC,ENSBTAG00000038565,ENSBTAG00000047312,ENSBTAG00000038565,ENSBTAG00000046477,ENSBTAG00000047091,ENSBTAG00000047312,ENSBTAG00000047683 |
| 10 | 23,325,000 | 23,475,000 | 312 | 1509 | -1.149230473 | ENSBTAG00000046477,ENSBTAG00000046897,ENSBTAG00000047001,ENSBTAG00000047091,ENSBTAG00000047683 |
| 10 | 23,400,000 | 23,550,000 | 313 | 1460 | -0.463852449 | TRA@,ENSBTAG00000046897,ENSBTAG00000047001,ENSBTAG00000047981 |
| 10 | 23,475,000 | 23,625,000 | 314 | 2319 | -0.174062352 | TRA@,ENSBTAG00000045953,ENSBTAG00000047097,ENSBTAG00000047981 |
| 10 | 23,550,000 | 23,700,000 | 315 | 1817 | 0.026718704 | ENSBTAG00000045953,ENSBTAG00000047097,ENSBTAG00000047522,ENSBTAG00000047909 |
| 10 | 23,625,000 | 23,775,000 | 316 | 995 | -0.180365207 | ENSBTAG00000047398,ENSBTAG00000047522,ENSBTAG00000047909 |
| 10 | 23,700,000 | 23,850,000 | 317 | 1262 | -0.586450862 | ENSBTAG00000047398,ENSBTAG00000048236 |
| 10 | 23,775,000 | 23,925,000 | 318 | 1623 | -0.126812982 | ENSBTAG00000037924,ENSBTAG00000039807,ENSBTAG00000048236 |
| 10 | 23,850,000 | 24,000,000 | 319 | 1641 | 0.236686418 | TRAV8-1,ENSBTAG00000037924,ENSBTAG00000039038,ENSBTAG00000039807,ENSBTAG00000048074 |
| 10 | 23,925,000 | 24,075,000 | 320 | 1757 | 0.257348466 | TRAV8-1,ENSBTAG00000039038,ENSBTAG00000046102,ENSBTAG00000046157,ENSBTAG00000046305,ENSBTAG00000047096,ENSBTAG00000047624,ENSBTAG00000047639,ENSBTAG00000047952,ENSBTAG00000048074 |
| 10 | 24,000,000 | 24,150,000 | 321 | 2144 | 0.250658565 | ENSBTAG00000046102,ENSBTAG00000046157,ENSBTAG00000046305,ENSBTAG00000047096,ENSBTAG00000047639,ENSBTAG00000047952,ENSBTAG00000048074 |
| 10 | 24,075,000 | 24,225,000 | 322 | 2219 | 0.329692932 | ENSBTAG00000046305,ENSBTAG00000047096,ENSBTAG00000047624,ENSBTAG00000047639,ENSBTAG00000047952 |
| 10 | 24,150,000 | 24,300,000 | 323 | 2021 | 0.352136525 | ENSBTAG00000046546,ENSBTAG00000047690 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 24,225,000 | 24,375,000 | 324 | 1540 | 0.068219862 | ENSBTAG00000046546,ENSBTAG00000047690 |
| 10 | 24,300,000 | 24,450,000 | 325 | 715 | 0.031320198 | |
| 10 | 24,375,000 | 24,525,000 | 326 | 832 | 0.206248135 | |
| 10 | 24,450,000 | 24,600,000 | 327 | 1989 | 0.389140039 | |
| 10 | 24,525,000 | 24,675,000 | 328 | 2203 | 0.627591024 | ENSBTAG00000046802 |
| 10 | 24,600,000 | 24,750,000 | 329 | 1535 | 0.651444307 | ENSBTAG00000027170,ENSBTAG00000046802,ENSBTAG00000047058 |
| 10 | 24,675,000 | 24,825,000 | 330 | 1577 | 0.238428107 | ENSBTAG00000027170,ENSBTAG00000035785,ENSBTAG00000047058 |
| 10 | 24,750,000 | 24,900,000 | 331 | 1370 | -0.100345097 | TRAV14DV4,ENSBTAG00000035785,ENSBTAG00000046819 |
| 10 | 24,825,000 | 24,975,000 | 332 | 933 | 0.187824367 | TRAV14DV4,ENSBTAG00000024659,ENSBTAG00000038060,ENSBTAG00000046819 |
| 10 | 24,900,000 | 25,050,000 | 333 | 1261 | 0.329762267 | TRAV16,TRAV17,ENSBTAG00000024659,ENSBTAG00000038060 |
| 10 | 24,975,000 | 25,125,000 | 334 | 1178 | 0.137901955 | TRAV16,TRAV17,TRAV18,ENSBTAG00000045883,ENSBTAG00000046993,ENSBTAG00000047015 |
| 10 | 25,050,000 | 25,200,000 | 335 | 1268 | 0.462984064 | TRAV18,ENSBTAG00000033045,ENSBTAG00000038544,ENSBTAG00000045883,ENSBTAG00000046426,ENSBTAG00000046993,ENSBTAG00000046995,ENSBTAG00000047015 |
| 10 | 25,125,000 | 25,275,000 | 336 | 1540 | 0.722082674 | ENSBTAG00000033045,ENSBTAG00000038544,ENSBTAG00000046361,ENSBTAG00000046426,ENSBTAG00000046995 |
| 10 | 25,200,000 | 25,350,000 | 337 | 1690 | 0.596399689 | ENSBTAG00000033036,ENSBTAG00000046361,ENSBTAG00000046643 |
| 10 | 25,275,000 | 25,425,000 | 338 | 2070 | 0.667738475 | ENSBTAG00000033034,ENSBTAG00000033036,ENSBTAG00000035530,ENSBTAG00000039546,ENSBTAG00000046478,ENSBTAG00000046643 |
| 10 | 25,350,000 | 25,500,000 | 339 | 2473 | 0.929994528 | ENSBTAG00000033034,ENSBTAG00000035530,ENSBTAG00000039546,ENSBTAG00000046478 |
| 10 | 25,425,000 | 25,575,000 | 340 | 2401 | 0.948927159 | TRAV3 |
| 10 | 25,500,000 | 25,650,000 | 341 | 1815 | 0.981965247 | OR4E2,TRAV3,ENSBTAG00000011925,ENSBTAG00000047253,ENSBTAG00000047746 |
| 10 | 25,575,000 | 25,725,000 | 342 | 1315 | 1.004573786 | METTL3,OR10G3,OR4E2,SALL2,ENSBTAG00000011925,ENSBTAG00000047253,ENSBTAG00000047746 |
| 10 | 25,650,000 | 25,800,000 | 343 | 801 | 1.207428271 | CHD8,METTL3,OR10G3,RAB2B,SALL2,TOX4 |
| 10 | 25,725,000 | 25,875,000 | 344 | 521 | 1.254111709 | CHD8,METTL3,RAB2B,RPGRIP1,SUPT16H,TOX4 |
| 10 | 25,800,000 | 25,950,000 | 345 | 975 | 1.215023452 | CHD8,HNRPC,RPGRIP1,SUPT16H |
| 10 | 25,875,000 | 26,025,000 | 346 | 1390 | 1.22272594 | HNRPC,OR5AU1,RPGRIP1 |
| 10 | 25,950,000 | 26,100,000 | 347 | 1143 | 1.166007556 | ARHGEF40,HNRPC,OR5AU1,TMEM253,ZNF219 |
| 10 | 26,025,000 | 26,175,000 | 348 | 905 | 1.070070365 | ARHGEF40,NDRG2,RNASE13,SLC39A2,TMEM253,TPPP2,ZNF219,ENSBTAG00000046482 |
| 10 | 26,100,000 | 26,250,000 | 349 | 1359 | 0.716735604 | METTL17,NDRG2,RNASE13,SLC39A2,TPPP2,ENSBTAG00000025664,ENSBTAG00000046482 |
| 10 | 26,175,000 | 26,325,000 | 350 | 1769 | 0.538391125 | BRN,METTL17,RAC1,ENSBTAG00000025664,ENSBTAG00000032873 |
| 10 | 26,250,000 | 26,400,000 | 351 | 1296 | -0.060508708 | BRN,RAC1,RNASE1,ENSBTAG00000032873 |
| 10 | 26,325,000 | 26,475,000 | 352 | 928 | -0.092107324 | ANG,ANG2,RNASE1,RNASE4,RNASE6 |
| 10 | 26,400,000 | 26,550,000 | 353 | 1043 | 0.37986422 | ANG,ANG2,OR6S1,RNASE4,RNASE6,ENSBTAG00000046058 |
| 10 | 26,475,000 | 26,625,000 | 354 | 1234 | 0.694910253 | OR6S1,RAK1,ENSBTAG00000046058 |
| 10 | 26,550,000 | 26,700,000 | 355 | 1327 | 0.778977287 | PNP,RAK1,RNASE10,ENSBTAG00000037452 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 26,625,000 | 26,775,000 | 356 | 1270 | 0.767123414 | APEX1,KLHL33,OSGEP,PNP,RNASE10,TEP1,TMEM55B,ENSBTAG00000037452 |
| 10 | 26,700,000 | 26,850,000 | 357 | 1105 | 0.146054235 | APEX1,CCNB1IP1,KLHL33,OSGEP,PARP2,RPS29,TEP1,TMEM55B,TTC5 |
| 10 | 26,775,000 | 26,925,000 | 358 | 1385 | 0.177854543 | CCNB1IP1,OR11H4,OR11H6,OR11H7,PARP2,RPS29,TEP1,TTC5,ENSBTAG00000015983 |
| 10 | 26,850,000 | 27,000,000 | 359 | 2040 | 0.590291621 | OR11H4,OR11H6,OR11H7,TTC5,ENSBTAG00000006198,ENSBTAG00000015983,ENSBTAG00000032798,ENSBTAG00000032799,ENSBTAG00000037959,ENSBTAG00000038868 |
| 10 | 26,925,000 | 27,075,000 | 360 | 1714 | 0.76528801 | OR11H6,ENSBTAG00000006198,ENSBTAG00000032798,ENSBTAG00000032799,ENSBTAG00000037959,ENSBTAG00000038227,ENSBTAG00000038868,ENSBTAG00000039315,ENSBTAG00000048109 |
| 10 | 27,000,000 | 27,150,000 | 361 | 1318 | 0.92786463 | ENSBTAG00000025068,ENSBTAG00000038227,ENSBTAG00000038485,ENSBTAG00000039315,ENSBTAG00000046970,ENSBTAG00000047483,ENSBTAG00000048109 |
| 10 | 27,075,000 | 27,225,000 | 362 | 1549 | 0.74122218 | OR4Q3,ENSBTAG00000025068,ENSBTAG00000037411,ENSBTAG00000038485,ENSBTAG00000038672,ENSBTAG00000039120,ENSBTAG00000039416,ENSBTAG00000046970,ENSBTAG00000047483 |
| 10 | 27,150,000 | 27,300,000 | 363 | 1436 | 0.523444062 | OR4K2,OR4N2,OR4Q3,ENSBTAG00000037411,ENSBTAG00000037511,ENSBTAG00000038672,ENSBTAG00000039120,ENSBTAG00000039416,ENSBTAG00000046390,ENSBTAG00000046651,ENSBTAG00000047311 |
| 10 | 27,225,000 | 27,375,000 | 364 | 1309 | 0.518242495 | OR4K1,OR4K2,OR4K5,OR4N2,ENSBTAG00000037511,ENSBTAG00000046390,ENSBTAG00000046651,ENSBTAG00000047311 |
| 10 | 27,300,000 | 27,450,000 | 365 | 992 | 0.122737251 | OR4K1,OR4K15,OR4K5 |
| 10 | 27,375,000 | 27,525,000 | 366 | 996 | -2.032576466 | OR4K14,OR4K15,OR4L1,OR4N5,OR4Q2 |
| 10 | 27,450,000 | 27,600,000 | 367 | 1427 | -2.418769155 | OR4K14,OR4L1,OR4N5,OR4Q2 |
| 10 | 27,525,000 | 27,675,000 | 368 | 1623 | -1.000272183 | ENSBTAG00000047348,ENSBTAG00000047984 |
| 10 | 27,600,000 | 27,750,000 | 369 | 2021 | 0.479392562 | ENSBTAG00000046009,ENSBTAG00000046061,ENSBTAG00000046370,ENSBTAG00000047348,ENSBTAG00000047984 |
| 10 | 27,675,000 | 27,825,000 | 370 | 1744 | 0.743367356 | ENSBTAG00000046009,ENSBTAG00000046061,ENSBTAG00000046370 |
| 10 | 27,750,000 | 27,900,000 | 371 | 1434 | 0.062531104 | ENSBTAG00000013255,ENSBTAG00000038188,ENSBTAG00000046207,ENSBTAG00000047465,ENSBTAG00000047566 |
| 10 | 27,825,000 | 27,975,000 | 372 | 1798 | -2.371834977 | ENSBTAG00000013255,ENSBTAG00000038188,ENSBTAG00000039354,ENSBTAG00000045618,ENSBTAG00000046207,ENSBTAG00000047465,ENSBTAG00000047566 |
| 10 | 27,900,000 | 28,050,000 | 373 | 1597 | -2.938198219 | OR4F15,ENSBTAG00000003549,ENSBTAG00000039354,ENSBTAG00000039554,ENSBTAG00000045618 |
| 10 | 27,975,000 | 28,125,000 | 374 | 865 | -2.037345865 | OR4F15,ENSBTAG00000003549,ENSBTAG00000039554,ENSBTAG00000039707,ENSBTAG00000040459 |
| 10 | 28,050,000 | 28,200,000 | 375 | 957 | 1.004575416 | ENSBTAG00000037647,ENSBTAG00000038083,ENSBTAG00000039707,ENSBTAG00000040459 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 28,125,000 | 28,275,000 | 376 | 1214 | -0.583795697 | ENSBTAG00000037647,ENSBTAG00000038083,ENSBTAG00000038963,ENSBTAG00000039884,ENSBTAG0000040609 |
| 10 | 28,200,000 | 28,350,000 | 377 | 860 | -2.994525267 | LPCAT4,NUTM1,ENSBTAG00000038531,ENSBTAG0000038963,ENSBTAG00000039884,ENSBTAG00000040609 |
| 10 | 28,275,000 | 28,425,000 | 378 | 509 | -0.389986197 | LPCAT4,NOP10,NUTM1,SLC12A6,ENSBTAG00000038531 |
| 10 | 28,350,000 | 28,500,000 | 379 | 466 | -0.803507301 | EMC4,KATNBL1,NOP10,NUTM1,SLC12A6 |
| 10 | 28,425,000 | 28,575,000 | 380 | 834 | -0.366399123 | C10H15ORF24,EMC4,KATNBL1,SLC12A6 |
| 10 | 28,500,000 | 28,650,000 | 381 | 1190 | -0.229241868 | AVEN,C10H15ORF24,CHRM5,KATNBL1 |
| 10 | 28,575,000 | 28,725,000 | 382 | 1373 | -0.245567891 | AVEN,CHRM5 |
| 10 | 28,650,000 | 28,800,000 | 383 | 1196 | 0.626681737 | AVEN,RYR3 |
| 10 | 28,725,000 | 28,875,000 | 384 | 963 | 0.849868677 | AVEN,RYR3 |
| 10 | 28,800,000 | 28,950,000 | 385 | 1087 | -0.107846388 | RYR3 |
| 10 | 28,875,000 | 29,025,000 | 386 | 1285 | -0.074901303 | RYR3 |
| 10 | 28,950,000 | 29,100,000 | 387 | 1142 | 0.311581499 | RYR3 |
| 10 | 29,025,000 | 29,175,000 | 388 | 781 | 0.241437001 | RYR3 |
| 10 | 29,100,000 | 29,250,000 | 389 | 770 | -0.522775146 | RYR3 |
| 10 | 29,175,000 | 29,325,000 | 390 | 1036 | -0.041487218 | |
| 10 | 29,250,000 | 29,400,000 | 391 | 1252 | -0.136263446 | |
| 10 | 29,325,000 | 29,475,000 | 392 | 1038 | -0.285833685 | ENSBTAG00000021414 |
| 10 | 29,400,000 | 29,550,000 | 393 | 668 | -1.954439808 | ENSBTAG00000021414 |
| 10 | 29,475,000 | 29,625,000 | 394 | 803 | -2.254385823 | |
| 10 | 29,550,000 | 29,700,000 | 395 | 920 | -0.443121193 | ENSBTAG00000025634 |
| 10 | 29,625,000 | 29,775,000 | 396 | 747 | 0.335730135 | ENSBTAG00000025634 |
| 10 | 29,700,000 | 29,850,000 | 397 | 692 | 0.010343169 | ENSBTAG00000025634 |
| 10 | 29,775,000 | 29,925,000 | 398 | 532 | -0.341121094 | ENSBTAG00000025634 |
| 10 | 29,850,000 | 30,000,000 | 399 | 555 | -0.74041356 | ENSBTAG00000047645 |
| 10 | 29,925,000 | 30,075,000 | 400 | 654 | -0.500698104 | GREM1,ENSBTAG00000047645 |
| 10 | 30,000,000 | 30,150,000 | 401 | 534 | -0.471522291 | ARHGAP11A,GREM1,SCG5 |
| 10 | 30,075,000 | 30,225,000 | 402 | 979 | 0.300295728 | ARHGAP11A,SCG5 |
| 10 | 30,150,000 | 30,300,000 | 403 | 992 | 0.430585682 | ARHGAP11A |
| 10 | 30,225,000 | 30,375,000 | 404 | 777 | -0.637656649 | ACTC1,GJD2 |
| 10 | 30,300,000 | 30,450,000 | 405 | 973 | -0.783036287 | ACTC1,AQR,GJD2 |
| 10 | 30,375,000 | 30,525,000 | 406 | 1121 | -0.865612249 | AQR |
| 10 | 30,450,000 | 30,600,000 | 407 | 1129 | -0.993034536 | AQR,ZNF770 |
| 10 | 30,525,000 | 30,675,000 | 408 | 1105 | -0.288995375 | ZNF770 |
| 10 | 30,600,000 | 30,750,000 | 409 | 1136 | -0.15445694 | |
| 10 | 30,675,000 | 30,825,000 | 410 | 1023 | 0.261142275 | |
| 10 | 30,750,000 | 30,900,000 | 411 | 952 | 0.596026152 | |
| 10 | 30,825,000 | 30,975,000 | 412 | 638 | 0.301414141 | DPH6 |
| 10 | 30,900,000 | 31,050,000 | 413 | 361 | 0.465403942 | DPH6 |
| 10 | 30,975,000 | 31,125,000 | 414 | 403 | -0.519266726 | DPH6 |
| 10 | 31,050,000 | 31,200,000 | 415 | 597 | -0.223559766 | DPH6 |
| 10 | 31,125,000 | 31,275,000 | 416 | 535 | -0.516637637 | |
| 10 | 31,200,000 | 31,350,000 | 417 | 339 | -1.545869307 | |
| 10 | 31,275,000 | 31,425,000 | 418 | 422 | -1.209906629 | |
| 10 | 31,350,000 | 31,500,000 | 419 | 592 | -0.996179762 | |
| 10 | 31,425,000 | 31,575,000 | 420 | 639 | -0.090957322 | |
| 10 | 31,500,000 | 31,650,000 | 421 | 435 | 0.3971727 | |
| 10 | 31,575,000 | 31,725,000 | 422 | 524 | -0.174979454 | |
| 10 | 31,650,000 | 31,800,000 | 423 | 661 | -0.169901915 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 10 | 31,725,000 | 31,875,000 | 424 | 661 | -0.016194898 | |
| 10 | 31,800,000 | 31,950,000 | 425 | 529 | 0.134565707 | |
| 10 | 31,875,000 | 32,025,000 | 426 | 339 | -1.546503102 | |
| 10 | 31,950,000 | 32,100,000 | 427 | 506 | -1.126986882 | |
| 10 | 32,025,000 | 32,175,000 | 428 | 680 | 0.24618376 | |
| 10 | 32,100,000 | 32,250,000 | 429 | 585 | 0.988603113 | |
| 10 | 32,175,000 | 32,325,000 | 430 | 596 | 0.654304784 | |
| 10 | 32,250,000 | 32,400,000 | 431 | 770 | 0.344476853 | C10H15ORF41 |
| 10 | 32,325,000 | 32,475,000 | 432 | 761 | 0.423367427 | C10H15ORF41 |
| 10 | 32,400,000 | 32,550,000 | 433 | 751 | 0.378025683 | C10H15ORF41,ENSBTAG00000047974 |
| 10 | 32,475,000 | 32,625,000 | 434 | 609 | -0.838475618 | C10H15ORF41,ENSBTAG00000047974 |
| 10 | 32,550,000 | 32,700,000 | 435 | 499 | -0.744365922 | C10H15ORF41,MEIS2 |
| 10 | 32,625,000 | 32,775,000 | 436 | 491 | 0.125845955 | MEIS2 |
| 10 | 32,700,000 | 32,850,000 | 437 | 503 | -0.602664991 | MEIS2 |
| 10 | 32,775,000 | 32,925,000 | 438 | 533 | 0.099029029 | MEIS2 |
| 10 | 32,850,000 | 33,000,000 | 439 | 513 | 0.556213937 | MEIS2 |
| 10 | 32,925,000 | 33,075,000 | 440 | 525 | 0.619380956 | |
| 10 | 33,000,000 | 33,150,000 | 441 | 658 | -0.350755929 | |
| 10 | 33,075,000 | 33,225,000 | 442 | 1017 | -0.465080233 | |
| 10 | 33,150,000 | 33,300,000 | 443 | 871 | -0.0033275 | |
| 10 | 33,225,000 | 33,375,000 | 444 | 749 | 0.642318134 | |
| 10 | 33,300,000 | 33,450,000 | 445 | 1030 | 0.547975203 | |
| 10 | 33,375,000 | 33,525,000 | 446 | 940 | 0.330381424 | |
| 10 | 33,450,000 | 33,600,000 | 447 | 554 | 0.380964078 | |
| 10 | 33,525,000 | 33,675,000 | 448 | 399 | -0.439583546 | TMCO5A |
| 10 | 33,600,000 | 33,750,000 | 449 | 399 | -0.341799834 | TMCO5A |
| 10 | 33,675,000 | 33,825,000 | 450 | 377 | -0.125802779 | TMCO5A |
| 10 | 33,750,000 | 33,900,000 | 451 | 704 | -0.008355496 | |
| 10 | 33,825,000 | 33,975,000 | 452 | 754 | 0.331551228 | SPRED1 |
| 10 | 33,900,000 | 34,050,000 | 453 | 474 | 0.836706486 | SPRED1 |
| 10 | 33,975,000 | 34,125,000 | 454 | 456 | 1.206058824 | SPRED1 |
| 10 | 34,050,000 | 34,200,000 | 455 | 559 | 0.449333523 | FAM98B,SPRED1 |
| 10 | 34,125,000 | 34,275,000 | 456 | 510 | -0.485982663 | FAM98B,RASGRP1 |
| 10 | 34,200,000 | 34,350,000 | 457 | 403 | -0.502706707 | RASGRP1 |
| 10 | 34,275,000 | 34,425,000 | 458 | 761 | 0.781904038 | RASGRP1 |
| 10 | 34,350,000 | 34,500,000 | 459 | 1028 | 0.204777742 | |
| 10 | 34,425,000 | 34,575,000 | 460 | 882 | -0.337015508 | |
| 10 | 34,500,000 | 34,650,000 | 461 | 776 | 0.249967592 | |
| 10 | 34,575,000 | 34,725,000 | 462 | 896 | 0.865774462 | |
| 10 | 34,650,000 | 34,800,000 | 463 | 801 | 0.995010895 | |
| 10 | 34,725,000 | 34,875,000 | 464 | 709 | 0.462153809 | |
| 10 | 34,800,000 | 34,950,000 | 465 | 853 | -0.369072953 | |
| 10 | 34,875,000 | 35,025,000 | 466 | 940 | -0.971925799 | |
| 10 | 34,950,000 | 35,100,000 | 467 | 893 | -0.744284481 | |
| 10 | 35,025,000 | 35,175,000 | 468 | 851 | 0.013790256 | |
| 10 | 35,100,000 | 35,250,000 | 469 | 896 | -0.259831826 | |
| 10 | 35,175,000 | 35,325,000 | 470 | 1025 | 0.11854795 | THBS1 |
| 10 | 35,250,000 | 35,400,000 | 471 | 745 | 0.472119432 | FSIP1,THBS1 |
| 10 | 35,325,000 | 35,475,000 | 472 | 246 | -0.165748399 | FSIP1,THBS1 |
| 10 | 35,400,000 | 35,550,000 | 473 | 260 | -0.511453237 | FSIP1 |
| 10 | 35,475,000 | 35,625,000 | 474 | 266 | -0.686156979 | FSIP1,GPR176 |
| 10 | 35,550,000 | 35,700,000 | 475 | 300 | -0.476938492 | GPR176 |
| 10 | 35,625,000 | 35,775,000 | 476 | 371 | -0.228532656 | EIF2AK4,GPR176 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 10 | 35,700,000 | 35,850,000 | 477 | 363 | 0.566263951 | EIF2AK4,SRP14 |
| 10 | 35,775,000 | 35,925,000 | 478 | 286 | 0.66755584 | BMF,BUB1B,EIF2AK4,SRP14 |
| 10 | 35,850,000 | 36,000,000 | 479 | 280 | -0.181474719 | BMF,BUB1B,ENSBTAG00000019076 |
| 10 | 35,925,000 | 36,075,000 | 480 | 327 | -0.421381768 | ANKRD63,BUB1B,C15orf52,PLCB2,ENSBTAG00000019076 |
| 10 | 36,000,000 | 36,150,000 | 481 | 444 | -0.757314182 | ANKRD63,C10H15ORF23,C15orf52,DISP2,IVD,PLCB2,ENSBTAG00000019076 |
| 10 | 36,075,000 | 36,225,000 | 482 | 452 | -0.526667845 | BAHD1,C10H15ORF23,CHST14,DISP2,IVD |
| 10 | 36,150,000 | 36,300,000 | 483 | 401 | 0.68312293 | BAHD1,CCDC32,CHST14,IVD,RPUSD2 |
| 10 | 36,225,000 | 36,375,000 | 484 | 324 | 0.802026586 | CCDC32,RAD51,RPUSD2 |
| 10 | 36,300,000 | 36,450,000 | 485 | 204 | 0.464153787 | C15orf62,DNAJC17,GCHFR,RAD51,RMDN3 |
| 10 | 36,375,000 | 36,525,000 | 486 | 250 | -0.516445055 | C15orf62,DNAJC17,GCHFR,PPP1R14D,RAD51,RHOV,RMDN3,SPINT1,ZFYVE19 |
| 10 | 36,450,000 | 36,600,000 | 487 | 305 | -0.622557984 | CHAC1,DLL4,DNAJC17,PPP1R14D,RHOV,SPINT1,VPS18,ZFYVE19 |
| 10 | 36,525,000 | 36,675,000 | 488 | 455 | -0.427902375 | CHAC1,DLL4,INO80,RHOV,VPS18 |
| 10 | 36,600,000 | 36,750,000 | 489 | 582 | -0.322811992 | CHAC1,INO80 |
| 10 | 36,675,000 | 36,825,000 | 490 | 615 | -0.155959763 | EXD1,INO80,SUMO1 |
| 10 | 36,750,000 | 36,900,000 | 491 | 619 | -0.06743241 | CHP1,EXD1,OIP5,SUMO1 |
| 10 | 36,825,000 | 36,975,000 | 492 | 641 | 0.11859133 | CHP1,EXD1,NDUFAF1,NUSAP1,OIP5 |
| 10 | 36,900,000 | 37,050,000 | 493 | 636 | -0.291753478 | ITPKA,NDUFAF1,NUSAP1,OIP5,RTF1 |
| 10 | 36,975,000 | 37,125,000 | 494 | 602 | -0.34546606 | ITPKA,RPAP1,RTF1,TYRO3 |
| 10 | 37,050,000 | 37,200,000 | 495 | 522 | -0.102253617 | MGA,RPAP1,TYRO3 |
| 10 | 37,125,000 | 37,275,000 | 496 | 393 | -0.34578404 | MGA,ENSBTAG00000014662 |
| 10 | 37,200,000 | 37,350,000 | 497 | 484 | -0.05425691 | JMJD7,MAPKBP1,MGA,PLA2G4B,ENSBTAG00000014662 |
| 10 | 37,275,000 | 37,425,000 | 498 | 815 | 0.117376257 | EHD4,JMJD7,MAPKBP1,MGA,PLA2G4B,SPTBN5 |
| 10 | 37,350,000 | 37,500,000 | 499 | 1038 | -0.832758896 | EHD4,PLA2G4B,SPTBN5 |
| 10 | 37,425,000 | 37,575,000 | 500 | 1038 | -1.419154936 | EHD4,PLA2G4E |
| 10 | 37,500,000 | 37,650,000 | 501 | 981 | -0.666268546 | PLA2G4D,PLA2G4E |
| 10 | 37,575,000 | 37,725,000 | 502 | 674 | -0.224893873 | PLA2G4D,PLA2G4F,TMEM87A,VPS39 |
| 10 | 37,650,000 | 37,800,000 | 503 | 541 | -0.27678682 | GANC,PLA2G4F,TMEM87A,VPS39 |
| 10 | 37,725,000 | 37,875,000 | 504 | 768 | -0.578192552 | CAPN3,GANC,TMEM87A |
| 10 | 37,800,000 | 37,950,000 | 505 | 740 | -0.436557345 | CAPN3,GANC,SNAP23,ZNF106 |
| 10 | 37,875,000 | 38,025,000 | 506 | 517 | -0.469741427 | CAPN3,CEP27,LRRC57,SNAP23,ZNF106 |
| 10 | 37,950,000 | 38,100,000 | 507 | 593 | -0.433514757 | CEP27,LRRC57,SNAP23 |
| 10 | 38,025,000 | 38,175,000 | 508 | 680 | -0.352956094 | CDAN1,TTBK2,ENSBTAG00000003754,ENSBTAG00000039789 |
| 10 | 38,100,000 | 38,250,000 | 509 | 539 | -0.67675797 | CDAN1,TTBK2,ENSBTAG00000003754,ENSBTAG00000039789 |
| 10 | 38,175,000 | 38,325,000 | 510 | 518 | -1.34151874 | TTBK2,UBR1 |
| 10 | 38,250,000 | 38,400,000 | 511 | 533 | -0.936540382 | UBR1 |
| 10 | 38,325,000 | 38,475,000 | 512 | 456 | 0.126643583 | TMEM62,UBR1 |
| 10 | 38,400,000 | 38,550,000 | 513 | 559 | 0.387424786 | CCNDBP1,EPB42,TMEM62,UBR1 |
| 10 | 38,475,000 | 38,625,000 | 514 | 810 | 0.608325908 | CCNDBP1,EPB42,TMEM62 |
| 10 | 38,550,000 | 38,700,000 | 515 | 1080 | 0.314966589 | |
| 10 | 38,625,000 | 38,775,000 | 516 | 921 | -0.966841725 | |
| 10 | 38,700,000 | 38,850,000 | 517 | 718 | -0.900584416 | |
| 10 | 38,775,000 | 38,925,000 | 518 | 744 | 0.551137744 | |
| 10 | 38,850,000 | 39,000,000 | 519 | 842 | -1.279362666 | |
| 10 | 38,925,000 | 39,075,000 | 520 | 1235 | -1.083962404 | |
| 10 | 39,000,000 | 39,150,000 | 521 | 1269 | 0.445193348 | |
| 10 | 39,075,000 | 39,225,000 | 522 | 1257 | 0.653962991 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 39,150,000 | 39,300,000 | 523 | 907 | 0.548660818 | |
| 10 | 39,225,000 | 39,375,000 | 524 | 679 | 0.715760273 | |
| 10 | 39,300,000 | 39,450,000 | 525 | 827 | 0.757710717 | |
| 10 | 39,375,000 | 39,525,000 | 526 | 1075 | 0.2848232 | |
| 10 | 39,450,000 | 39,600,000 | 527 | 1600 | 0.461961505 | |
| 10 | 39,525,000 | 39,675,000 | 528 | 1569 | 0.727673816 | |
| 10 | 39,600,000 | 39,750,000 | 529 | 1390 | 0.058597068 | RPL10L |
| 10 | 39,675,000 | 39,825,000 | 530 | 1583 | 0.073092238 | RPL10L |
| 10 | 39,750,000 | 39,900,000 | 531 | 1533 | 0.57149227 | |
| 10 | 39,825,000 | 39,975,000 | 532 | 1027 | 0.770165108 | MDGA2 |
| 10 | 39,900,000 | 40,050,000 | 533 | 813 | 0.598007353 | MDGA2 |
| 10 | 39,975,000 | 40,125,000 | 534 | 690 | 0.263829377 | MDGA2 |
| 10 | 40,050,000 | 40,200,000 | 535 | 498 | 0.477703414 | MDGA2,ENSBTAG00000032894 |
| 10 | 40,125,000 | 40,275,000 | 536 | 654 | 0.882527287 | MDGA2,ENSBTAG00000032894 |
| 10 | 40,200,000 | 40,350,000 | 537 | 736 | -0.105313794 | MDGA2 |
| 10 | 40,275,000 | 40,425,000 | 538 | 857 | -0.922900892 | MDGA2 |
| 10 | 40,350,000 | 40,500,000 | 539 | 1166 | -0.0561145 | MDGA2 |
| 10 | 40,425,000 | 40,575,000 | 540 | 1145 | 0.576357852 | MDGA2 |
| 10 | 40,500,000 | 40,650,000 | 541 | 1034 | -0.21816549 | |
| 10 | 40,575,000 | 40,725,000 | 542 | 754 | -0.44965627 | |
| 10 | 40,650,000 | 40,800,000 | 543 | 558 | 0.316951598 | |
| 10 | 40,725,000 | 40,875,000 | 544 | 655 | 0.256734319 | |
| 10 | 40,800,000 | 40,950,000 | 545 | 928 | 0.110209001 | |
| 10 | 40,875,000 | 41,025,000 | 546 | 1117 | -0.477231886 | |
| 10 | 40,950,000 | 41,100,000 | 547 | 981 | -0.380266732 | |
| 10 | 41,025,000 | 41,175,000 | 548 | 916 | 0.367545098 | |
| 10 | 41,100,000 | 41,250,000 | 549 | 1115 | 0.214141599 | |
| 10 | 41,175,000 | 41,325,000 | 550 | 1192 | -0.063557705 | |
| 10 | 41,250,000 | 41,400,000 | 551 | 824 | -0.315704294 | |
| 10 | 41,325,000 | 41,475,000 | 552 | 819 | -0.011448346 | |
| 10 | 41,400,000 | 41,550,000 | 553 | 794 | 0.286651536 | |
| 10 | 41,475,000 | 41,625,000 | 554 | 849 | 0.312735675 | |
| 10 | 41,550,000 | 41,700,000 | 555 | 1249 | 0.662555369 | |
| 10 | 41,625,000 | 41,775,000 | 556 | 1494 | 0.732777295 | |
| 10 | 41,700,000 | 41,850,000 | 557 | 1440 | -0.171123529 | |
| 10 | 41,775,000 | 41,925,000 | 558 | 927 | -0.582102923 | |
| 10 | 41,850,000 | 42,000,000 | 559 | 478 | 0.351407753 | ENSBTAG00000047222 |
| 10 | 41,925,000 | 42,075,000 | 560 | 658 | 0.67942007 | ENSBTAG00000047222 |
| 10 | 42,000,000 | 42,150,000 | 561 | 1214 | 0.955224183 | |
| 10 | 42,075,000 | 42,225,000 | 562 | 1444 | 0.926149973 | |
| 10 | 42,150,000 | 42,300,000 | 563 | 1600 | 0.27147836 | |
| 10 | 42,225,000 | 42,375,000 | 564 | 1909 | 0.412205895 | |
| 10 | 42,300,000 | 42,450,000 | 565 | 1798 | 0.705572906 | |
| 10 | 42,375,000 | 42,525,000 | 566 | 1477 | 0.44126484 | |
| 10 | 42,450,000 | 42,600,000 | 567 | 1061 | 0.030921774 | |
| 10 | 42,525,000 | 42,675,000 | 568 | 798 | -0.066679207 | |
| 10 | 42,600,000 | 42,750,000 | 569 | 807 | -0.205965329 | DNAAF2,KLHDC1,MGAT2,POLE2,PPIL5,RPL36A |
| 10 | 42,675,000 | 42,825,000 | 570 | 719 | -0.333481168 | DNAAF2,KLHDC1,KLHDC2,MGAT2,NEMF,POLE2,PPIL5,RPL36A |
| 10 | 42,750,000 | 42,900,000 | 571 | 595 | -0.06361756 | KLHDC1,KLHDC2,NEMF |
| 10 | 42,825,000 | 42,975,000 | 572 | 648 | -0.259279998 | ARF6,NEMF |
| 10 | 42,900,000 | 43,050,000 | 573 | 838 | 0.066222775 | ARF6 |
| 10 | 42,975,000 | 43,125,000 | 574 | 886 | 0.584496339 | SOS2,VCPKMT |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 10 | 43,050,000 | 43,200,000 | 575 | 980 | 1.034130412 | SOS2,VCPKMT |
| 10 | 43,125,000 | 43,275,000 | 576 | 820 | 0.802434463 | ATP5S,L2HGDH,SOS2 |
| 10 | 43,200,000 | 43,350,000 | 577 | 666 | 0.718614798 | ATP5S,CDKL1,L2HGDH |
| 10 | 43,275,000 | 43,425,000 | 578 | 555 | 1.202462926 | ATP5S,CDKL1,MAP4K5 |
| 10 | 43,350,000 | 43,500,000 | 579 | 376 | 1.42854732 | ATL1,MAP4K5 |
| 10 | 43,425,000 | 43,575,000 | 580 | 276 | 1.456499355 | ATL1,MAP4K5,SAV1 |
| 10 | 43,500,000 | 43,650,000 | 581 | 217 | 1.326093396 | ATL1,NIN,SAV1 |
| 10 | 43,575,000 | 43,725,000 | 582 | 614 | 1.518490802 | NIN,SAV1 |
| 10 | 43,650,000 | 43,800,000 | 583 | 901 | 1.363560311 | ABHD12B,NIN |
| 10 | 43,725,000 | 43,875,000 | 584 | 774 | 0.341194492 | ABHD12B,PYGL,TRIM9 |
| 10 | 43,800,000 | 43,950,000 | 585 | 696 | -0.303192194 | PYGL,TRIM9 |
| 10 | 43,875,000 | 44,025,000 | 586 | 601 | -0.237459277 | TRIM9 |
| 10 | 43,950,000 | 44,100,000 | 587 | 752 | -0.380535844 | TRIM9 |
| 10 | 44,025,000 | 44,175,000 | 588 | 852 | -1.085475233 | TMX1 |
| 10 | 44,100,000 | 44,250,000 | 589 | 594 | -2.381542064 | TMX1 |
| 10 | 44,175,000 | 44,325,000 | 590 | 482 | -2.223912594 | |
| 10 | 44,250,000 | 44,400,000 | 591 | 732 | -0.267082801 | FRMD6 |
| 10 | 44,325,000 | 44,475,000 | 592 | 1022 | 0.088162242 | FRMD6 |
| 10 | 44,400,000 | 44,550,000 | 593 | 931 | -0.266476913 | FRMD6 |
| 10 | 44,475,000 | 44,625,000 | 594 | 696 | -0.852654309 | FRMD6 |
| 10 | 44,550,000 | 44,700,000 | 595 | 869 | -0.542702904 | FRMD6 |
| 10 | 44,625,000 | 44,775,000 | 596 | 1003 | -0.217906277 | GNG2 |
| 10 | 44,700,000 | 44,850,000 | 597 | 928 | 0.006967922 | GNG2 |
| 10 | 44,775,000 | 44,925,000 | 598 | 855 | 0.262982923 | C10H14ORF166,GNG2,NID2 |
| 10 | 44,850,000 | 45,000,000 | 599 | 947 | -0.330144952 | C10H14ORF166,NID2 |
| 10 | 44,925,000 | 45,075,000 | 600 | 1269 | -0.015257406 | NID2 |
| 10 | 45,000,000 | 45,150,000 | 601 | 1033 | 0.719691903 | |
| 10 | 45,075,000 | 45,225,000 | 602 | 663 | 0.836520892 | PTGDR,ENSBTAG00000001423 |
| 10 | 45,150,000 | 45,300,000 | 603 | 695 | 0.719835238 | PLEKHO2,PTGDR,ENSBTAG00000001423 |
| 10 | 45,225,000 | 45,375,000 | 604 | 782 | 0.674339498 | PIF1,PLEKHO2 |
| 10 | 45,300,000 | 45,450,000 | 605 | 789 | 0.910537916 | OAZ2,PIF1,PLEKHO2,RBPMS2,ZNF609 |
| 10 | 45,375,000 | 45,525,000 | 606 | 784 | 1.065329733 | OAZ2,RBPMS2,ZNF609 |
| 10 | 45,450,000 | 45,600,000 | 607 | 921 | 1.206944448 | ZNF609,ENSBTAG00000017641 |
| 10 | 45,525,000 | 45,675,000 | 608 | 716 | 1.278646137 | TRIP4,ZNF609,ENSBTAG00000017641 |
| 10 | 45,600,000 | 45,750,000 | 609 | 436 | 1.340307236 | CSNK1G1,PAF,TRIP4,ZNF609 |
| 10 | 45,675,000 | 45,825,000 | 610 | 461 | 1.333285889 | CSNK1G1,PAF,TRIP4 |
| 10 | 45,750,000 | 45,900,000 | 611 | 627 | 1.251555107 | CSNK1G1,PPIB,SNX1,SNX22 |
| 10 | 45,825,000 | 45,975,000 | 612 | 892 | 0.89872581 | CSNK1G1,FAM96A,PPIB,SNX1,SNX22 |
| 10 | 45,900,000 | 46,050,000 | 613 | 950 | -0.0194731 | DAPK2,FAM96A,SNX1 |
| 10 | 45,975,000 | 46,125,000 | 614 | 1076 | -0.245147065 | DAPK2 |
| 10 | 46,050,000 | 46,200,000 | 615 | 939 | 0.601667834 | DAPK2 |
| 10 | 46,125,000 | 46,275,000 | 616 | 480 | 0.482054707 | DAPK2,HERC1 |
| 10 | 46,200,000 | 46,350,000 | 617 | 326 | 0.257989666 | HERC1 |
| 10 | 46,275,000 | 46,425,000 | 618 | 337 | 1.014866231 | HERC1 |
| 10 | 46,350,000 | 46,500,000 | 619 | 495 | 1.3077842 | FBXL22,HERC1,USP3 |
| 10 | 46,425,000 | 46,575,000 | 620 | 571 | 1.023576222 | FBXL22,HERC1,USP3 |
| 10 | 46,500,000 | 46,650,000 | 621 | 864 | 0.428685382 | USP3 |
| 10 | 46,575,000 | 46,725,000 | 622 | 1093 | 0.606433732 | |
| 10 | 46,650,000 | 46,800,000 | 623 | 956 | 0.634120671 | APH1B,CA12 |
| 10 | 46,725,000 | 46,875,000 | 624 | 742 | 0.345917349 | APH1B,CA12,RAB8B |
| 10 | 46,800,000 | 46,950,000 | 625 | 515 | 0.225695954 | APH1B,RAB8B,RPS27L |
| 10 | 46,875,000 | 47,025,000 | 626 | 605 | -0.094654444 | LACTB,RAB8B,RPS27L |
| 10 | 46,950,000 | 47,100,000 | 627 | 630 | -0.024548912 | LACTB,TPM1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 10 | 47,025,000 | 47,175,000 | 628 | 738 | 0.024896823 | TPM1 |
| 10 | 47,100,000 | 47,250,000 | 629 | 1128 | -1.161431704 | |
| 10 | 47,175,000 | 47,325,000 | 630 | 863 | -2.051170562 | TLN2 |
| 10 | 47,250,000 | 47,400,000 | 631 | 401 | -1.511462022 | TLN2 |
| 10 | 47,325,000 | 47,475,000 | 632 | 495 | -1.723848217 | TLN2 |
| 10 | 47,400,000 | 47,550,000 | 633 | 855 | -2.072010431 | TLN2 |
| 10 | 47,475,000 | 47,625,000 | 634 | 1109 | -2.267779817 | TLN2 |
| 10 | 47,550,000 | 47,700,000 | 635 | 1116 | -0.49334041 | TLN2 |
| 10 | 47,625,000 | 47,775,000 | 636 | 944 | 0.397517384 | TLN2 |
| 10 | 47,700,000 | 47,850,000 | 637 | 940 | 1.105524258 | TLN2 |
| 10 | 47,775,000 | 47,925,000 | 638 | 896 | 1.049142627 | TLN2 |
| 10 | 47,850,000 | 48,000,000 | 639 | 798 | 0.708599802 | C2CD4A |
| 10 | 47,925,000 | 48,075,000 | 640 | 986 | 1.110102879 | C2CD4A,ENSBTAG00000010952 |
| 10 | 48,000,000 | 48,150,000 | 641 | 1114 | 0.952499824 | VPS13C,ENSBTAG00000010952 |
| 10 | 48,075,000 | 48,225,000 | 642 | 1086 | 0.589579215 | VPS13C |
| 10 | 48,150,000 | 48,300,000 | 643 | 647 | 0.495846656 | VPS13C |
| 10 | 48,225,000 | 48,375,000 | 644 | 389 | 1.072606891 | VPS13C |
| 10 | 48,300,000 | 48,450,000 | 645 | 663 | 0.301288992 | |
| 10 | 48,375,000 | 48,525,000 | 646 | 685 | -0.130036213 | |
| 10 | 48,450,000 | 48,600,000 | 647 | 751 | 0.118244461 | |
| 10 | 48,525,000 | 48,675,000 | 648 | 1141 | 0.455154607 | |
| 10 | 48,600,000 | 48,750,000 | 649 | 1187 | 0.809931102 | |
| 10 | 48,675,000 | 48,825,000 | 650 | 1001 | 0.863197749 | |
| 10 | 48,750,000 | 48,900,000 | 651 | 848 | 0.086761146 | |
| 10 | 48,825,000 | 48,975,000 | 652 | 642 | -0.413913074 | RORA |
| 10 | 48,900,000 | 49,050,000 | 653 | 460 | -0.34194361 | RORA |
| 10 | 48,975,000 | 49,125,000 | 654 | 392 | -0.102977109 | RORA |
| 10 | 49,050,000 | 49,200,000 | 655 | 437 | -0.083860928 | RORA |
| 10 | 49,125,000 | 49,275,000 | 656 | 503 | -0.819052767 | RORA |
| 10 | 49,200,000 | 49,350,000 | 657 | 458 | -1.604357675 | RORA |
| 10 | 49,275,000 | 49,425,000 | 658 | 413 | -1.24890742 | RORA |
| 10 | 49,350,000 | 49,500,000 | 659 | 522 | -1.039913511 | RORA |
| 10 | 49,425,000 | 49,575,000 | 660 | 491 | -0.690218258 | RORA |
| 10 | 49,500,000 | 49,650,000 | 661 | 366 | -0.57051963 | RORA |
| 10 | 49,575,000 | 49,725,000 | 662 | 345 | -2.097122403 | RORA |
| 10 | 49,650,000 | 49,800,000 | 663 | 447 | -0.71061714 | ICE2,RORA |
| 10 | 49,725,000 | 49,875,000 | 664 | 837 | 0.422025385 | ANXA2,ICE2,RORA |
| 10 | 49,800,000 | 49,950,000 | 665 | 1267 | 0.591394429 | ANXA2,ICE2 |
| 10 | 49,875,000 | 50,025,000 | 666 | 1518 | 0.784753966 | ANXA2 |
| 10 | 49,950,000 | 50,100,000 | 667 | 1390 | 0.885899758 | |
| 10 | 50,025,000 | 50,175,000 | 668 | 830 | 0.257040409 | |
| 10 | 50,100,000 | 50,250,000 | 669 | 744 | -0.973820515 | |
| 10 | 50,175,000 | 50,325,000 | 670 | 866 | -0.614781431 | FOXB1 |
| 10 | 50,250,000 | 50,400,000 | 671 | 949 | -0.160474335 | FOXB1 |
| 10 | 50,325,000 | 50,475,000 | 672 | 1090 | -0.04931538 | |
| 10 | 50,400,000 | 50,550,000 | 673 | 1198 | 0.378588697 | |
| 10 | 50,475,000 | 50,625,000 | 674 | 956 | 0.555309472 | |
| 10 | 50,550,000 | 50,700,000 | 675 | 498 | 0.263095583 | BNIP2,GTF2A2 |
| 10 | 50,625,000 | 50,775,000 | 676 | 752 | 0.325018386 | BNIP2,GCNT3,GTF2A2 |
| 10 | 50,700,000 | 50,850,000 | 677 | 1523 | 0.707960779 | GCNT3 |
| 10 | 50,775,000 | 50,925,000 | 678 | 1719 | 0.99436175 | FAM81A |
| 10 | 50,850,000 | 51,000,000 | 679 | 1401 | 1.260721004 | FAM81A |
| 10 | 50,925,000 | 51,075,000 | 680 | 1176 | 1.028955659 | FAM81A,MYO1E |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 10 | 51,000,000 | 51,150,000 | 681 | 1247 | 0.582469959 | MYO1E |
| 10 | 51,075,000 | 51,225,000 | 682 | 1336 | 0.074952593 | MYO1E |
| 10 | 51,150,000 | 51,300,000 | 683 | 845 | -0.252057648 | CCNB2,MYO1E,RNF111 |
| 10 | 51,225,000 | 51,375,000 | 684 | 494 | -0.007450247 | CCNB2,MYO1E,RNF111 |
| 10 | 51,300,000 | 51,450,000 | 685 | 401 | -0.62416034 | RNF111,SLTM |
| 10 | 51,375,000 | 51,525,000 | 686 | 332 | 0.223551705 | FAM63B,RNF111,SLTM |
| 10 | 51,450,000 | 51,600,000 | 687 | 315 | 0.978672556 | ADAM10,FAM63B,SLTM |
| 10 | 51,525,000 | 51,675,000 | 688 | 399 | 0.771851979 | ADAM10,FAM63B |
| 10 | 51,600,000 | 51,750,000 | 689 | 413 | -0.662842502 | ADAM10 |
| 10 | 51,675,000 | 51,825,000 | 690 | 398 | -1.487042327 | ADAM10,LIPC |
| 10 | 51,750,000 | 51,900,000 | 691 | 564 | -1.039033704 | LIPC |
| 10 | 51,825,000 | 51,975,000 | 692 | 543 | -1.63187654 | LIPC |
| 10 | 51,900,000 | 52,050,000 | 693 | 515 | -3.177911226 | LIPC |
| 10 | 51,975,000 | 52,125,000 | 694 | 612 | -1.149298686 | |
| 10 | 52,050,000 | 52,200,000 | 695 | 866 | 1.033301637 | AQP9 |
| 10 | 52,125,000 | 52,275,000 | 696 | 906 | 1.231469217 | AQP9 |
| 10 | 52,200,000 | 52,350,000 | 697 | 535 | 1.128325224 | ALDH1A2 |
| 10 | 52,275,000 | 52,425,000 | 698 | 574 | 0.92911621 | ALDH1A2 |
| 10 | 52,350,000 | 52,500,000 | 699 | 651 | 0.634170513 | ALDH1A2 |
| 10 | 52,425,000 | 52,575,000 | 700 | 720 | -0.242624084 | |
| 10 | 52,500,000 | 52,650,000 | 701 | 817 | -0.13928228 | POLR2M |
| 10 | 52,575,000 | 52,725,000 | 702 | 784 | 0.584945577 | MYZAP,POLR2M |
| 10 | 52,650,000 | 52,800,000 | 703 | 840 | 0.466756985 | MYZAP,POLR2M |
| 10 | 52,725,000 | 52,875,000 | 704 | 1087 | -0.599569466 | CGNL1,MYZAP |
| 10 | 52,800,000 | 52,950,000 | 705 | 1167 | -0.040925924 | CGNL1 |
| 10 | 52,875,000 | 53,025,000 | 706 | 853 | 0.650607882 | CGNL1 |
| 10 | 52,950,000 | 53,100,000 | 707 | 879 | -0.806063755 | TCF12 |
| 10 | 53,025,000 | 53,175,000 | 708 | 816 | -1.486473065 | TCF12 |
| 10 | 53,100,000 | 53,250,000 | 709 | 741 | -0.712510232 | TCF12 |
| 10 | 53,175,000 | 53,325,000 | 710 | 886 | -0.303762281 | TCF12 |
| 10 | 53,250,000 | 53,400,000 | 711 | 784 | -0.094680221 | TCF12 |
| 10 | 53,325,000 | 53,475,000 | 712 | 663 | 0.265006822 | TCF12 |
| 10 | 53,400,000 | 53,550,000 | 713 | 493 | 0.164280728 | TCF12 |
| 10 | 53,475,000 | 53,625,000 | 714 | 378 | -0.157627256 | TCF12 |
| 10 | 53,550,000 | 53,700,000 | 715 | 541 | 0.406763278 | |
| 10 | 53,625,000 | 53,775,000 | 716 | 571 | 0.533721376 | ZNF280D |
| 10 | 53,700,000 | 53,850,000 | 717 | 529 | 0.045346766 | ZNF280D |
| 10 | 53,775,000 | 53,925,000 | 718 | 744 | -0.311859755 | ZNF280D |
| 10 | 53,850,000 | 54,000,000 | 719 | 699 | -0.301958545 | MNS1 |
| 10 | 53,925,000 | 54,075,000 | 720 | 532 | -0.401012371 | MNS1 |
| 10 | 54,000,000 | 54,150,000 | 721 | 701 | -0.912141988 | MNS1,TEX9 |
| 10 | 54,075,000 | 54,225,000 | 722 | 1058 | 0.205779222 | TEX9 |
| 10 | 54,150,000 | 54,300,000 | 723 | 1221 | 1.016596285 | RFX7,TEX9 |
| 10 | 54,225,000 | 54,375,000 | 724 | 871 | 0.804735836 | RFX7 |
| 10 | 54,300,000 | 54,450,000 | 725 | 783 | 0.142787042 | RFX7 |
| 10 | 54,375,000 | 54,525,000 | 726 | 1147 | 0.257666394 | RFX7,ENSBTAG00000031396 |
| 10 | 54,450,000 | 54,600,000 | 727 | 942 | 0.481925254 | NEDD4,ENSBTAG00000031396 |
| 10 | 54,525,000 | 54,675,000 | 728 | 702 | 0.761165089 | NEDD4 |
| 10 | 54,600,000 | 54,750,000 | 729 | 609 | -0.047617299 | NEDD4 |
| 10 | 54,675,000 | 54,825,000 | 730 | 471 | -2.613055219 | PRTG |
| 10 | 54,750,000 | 54,900,000 | 731 | 637 | -2.877410995 | PRTG,PYGO1 |
| 10 | 54,825,000 | 54,975,000 | 732 | 742 | -1.377070607 | DYX1C1,PRTG,PYGO1 |
| 10 | 54,900,000 | 55,050,000 | 733 | 647 | 0.664736037 | CCPG1,DYX1C1,PIGB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 10 | 54,975,000 | 55,125,000 | 734 | 607 | 0.284741826 | CCPG1,PIGB,RAB27A |
| 10 | 55,050,000 | 55,200,000 | 735 | 880 | 0.872475842 | PIGB,RAB27A,RSL24D1 |
| 10 | 55,125,000 | 55,275,000 | 736 | 1038 | 1.193882619 | RAB27A,RSL24D1 |
| 10 | 55,200,000 | 55,350,000 | 737 | 1000 | 0.751706134 | |
| 10 | 55,275,000 | 55,425,000 | 738 | 1261 | 0.415328622 | |
| 10 | 55,350,000 | 55,500,000 | 739 | 1427 | 0.5799494 | |
| 10 | 55,425,000 | 55,575,000 | 740 | 1535 | -0.601052889 | |
| 10 | 55,500,000 | 55,650,000 | 741 | 1618 | -1.550890662 | |
| 10 | 55,575,000 | 55,725,000 | 742 | 1389 | -0.644966589 | UNC13C |
| 10 | 55,650,000 | 55,800,000 | 743 | 1542 | 0.276160792 | UNC13C |
| 10 | 55,725,000 | 55,875,000 | 744 | 1246 | 0.050051349 | UNC13C |
| 10 | 55,800,000 | 55,950,000 | 745 | 1027 | 0.358350261 | UNC13C |
| 10 | 55,875,000 | 56,025,000 | 746 | 1398 | 0.373221107 | UNC13C |
| 10 | 55,950,000 | 56,100,000 | 747 | 1171 | 0.511484367 | UNC13C |
| 10 | 56,025,000 | 56,175,000 | 748 | 1507 | 1.071597099 | UNC13C |
| 10 | 56,100,000 | 56,250,000 | 749 | 1572 | 1.037734713 | UNC13C |
| 10 | 56,175,000 | 56,325,000 | 750 | 1117 | 0.228795908 | UNC13C |
| 10 | 56,250,000 | 56,400,000 | 751 | 1140 | -0.807119802 | UNC13C |
| 10 | 56,325,000 | 56,475,000 | 752 | 1431 | -1.003205928 | UNC13C |
| 10 | 56,400,000 | 56,550,000 | 753 | 1710 | -0.622981333 | |
| 10 | 56,475,000 | 56,625,000 | 754 | 1512 | -0.537843975 | |
| 10 | 56,550,000 | 56,700,000 | 755 | 1005 | -0.905627921 | WDR72 |
| 10 | 56,625,000 | 56,775,000 | 756 | 831 | -0.425404804 | WDR72 |
| 10 | 56,700,000 | 56,850,000 | 757 | 801 | -0.043516562 | WDR72 |
| 10 | 56,775,000 | 56,925,000 | 758 | 817 | -0.26643124 | WDR72 |
| 10 | 56,850,000 | 57,000,000 | 759 | 850 | -0.820000718 | |
| 10 | 56,925,000 | 57,075,000 | 760 | 890 | -0.995508866 | |
| 10 | 57,000,000 | 57,150,000 | 761 | 770 | -0.677457024 | |
| 10 | 57,075,000 | 57,225,000 | 762 | 400 | -0.062927483 | |
| 10 | 57,150,000 | 57,300,000 | 763 | 498 | 0.401368356 | |
| 10 | 57,225,000 | 57,375,000 | 764 | 888 | 0.845432385 | |
| 10 | 57,300,000 | 57,450,000 | 765 | 1067 | 0.568408629 | |
| 10 | 57,375,000 | 57,525,000 | 766 | 930 | 0.600407681 | |
| 10 | 57,450,000 | 57,600,000 | 767 | 615 | 0.827110186 | |
| 10 | 57,525,000 | 57,675,000 | 768 | 275 | 0.609222286 | |
| 10 | 57,600,000 | 57,750,000 | 769 | 228 | 0.838519264 | ONECUT1 |
| 10 | 57,675,000 | 57,825,000 | 770 | 350 | 0.765080954 | ONECUT1 |
| 10 | 57,750,000 | 57,900,000 | 771 | 350 | -0.99224118 | FAM214A |
| 10 | 57,825,000 | 57,975,000 | 772 | 258 | -2.718809227 | ARPP19,FAM214A |
| 10 | 57,900,000 | 58,050,000 | 773 | 361 | -0.611828688 | ARPP19,FAM214A,MYO5A |
| 10 | 57,975,000 | 58,125,000 | 774 | 452 | -0.415704221 | MYO5A |
| 10 | 58,050,000 | 58,200,000 | 775 | 583 | -0.928665534 | MYO5A,MYO5C |
| 10 | 58,125,000 | 58,275,000 | 776 | 818 | -0.280448779 | MYO5A,MYO5C |
| 10 | 58,200,000 | 58,350,000 | 777 | 901 | 0.52475081 | GNB5,MYO5C,ENSBTAG00000005429 |
| 10 | 58,275,000 | 58,425,000 | 778 | 664 | 0.072647653 | GNB5,MYO5C,ENSBTAG00000005429 |
| 10 | 58,350,000 | 58,500,000 | 779 | 400 | -0.001401346 | MAPK6 |
| 10 | 58,425,000 | 58,575,000 | 780 | 469 | 1.21770403 | LEO1,MAPK6,ENSBTAG00000019601 |
| 10 | 58,500,000 | 58,650,000 | 781 | 411 | 1.408285597 | LEO1,TMOD3,ENSBTAG00000019601 |
| 10 | 58,575,000 | 58,725,000 | 782 | 507 | 0.860178767 | TMOD2,TMOD3,ENSBTAG00000019601 |
| 10 | 58,650,000 | 58,800,000 | 783 | 579 | 0.956148637 | LYSMD2,SCG3,TMOD2 |
| 10 | 58,725,000 | 58,875,000 | 784 | 460 | 1.267079883 | LYSMD2,SCG3 |
| 10 | 58,800,000 | 58,950,000 | 785 | 539 | 0.923723923 | DMXL2 |
| 10 | 58,875,000 | 59,025,000 | 786 | 396 | 1.039331354 | DMXL2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 58,950,000 | 59,100,000 | 787 | 195 | 0.966312824 | DMXL2,GLDN |
| 10 | 59,025,000 | 59,175,000 | 788 | 346 | -0.085204279 | GLDN |
| 10 | 59,100,000 | 59,250,000 | 789 | 297 | -0.118747063 | CYP19A1,GLDN |
| 10 | 59,175,000 | 59,325,000 | 790 | 44 | -0.615647051 | CYP19A1 |
| 10 | 59,250,000 | 59,400,000 | 791 | 516 | 1.133614594 | CYP19A1 |
| 10 | 59,325,000 | 59,475,000 | 792 | 1134 | 1.191254752 | |
| 10 | 59,400,000 | 59,550,000 | 793 | 772 | 0.748612513 | TNFAIP8L3 |
| 10 | 59,475,000 | 59,625,000 | 794 | 565 | 0.040377781 | AP4E1,TNFAIP8L3 |
| 10 | 59,550,000 | 59,700,000 | 795 | 921 | 0.336924698 | AP4E1 |
| 10 | 59,625,000 | 59,775,000 | 796 | 906 | 0.328415782 | AP4E1 |
| 10 | 59,700,000 | 59,850,000 | 797 | 752 | -1.037562839 | SPPL2A |
| 10 | 59,775,000 | 59,925,000 | 798 | 588 | -0.545209026 | SPPL2A,TRPM7 |
| 10 | 59,850,000 | 60,000,000 | 799 | 594 | 0.985029087 | TRPM7,USP50,USP8 |
| 10 | 59,925,000 | 60,075,000 | 800 | 791 | 0.947544444 | TRPM7,USP50,USP8 |
| 10 | 60,000,000 | 60,150,000 | 801 | 805 | 0.77933161 | GABPB1,HDC,USP8 |
| 10 | 60,075,000 | 60,225,000 | 802 | 626 | -0.237847589 | GABPB1,HDC,SLC27A2,ENSBTAG00000045591,ENSBTAG00000045634 |
| 10 | 60,150,000 | 60,300,000 | 803 | 568 | -0.004688158 | HDC,SLC27A2,ENSBTAG00000045591,ENSBTAG00000045634 |
| 10 | 60,225,000 | 60,375,000 | 804 | 774 | 1.076388388 | SLC27A2 |
| 10 | 60,300,000 | 60,450,000 | 805 | 816 | 0.924131276 | ATP8B4 |
| 10 | 60,375,000 | 60,525,000 | 806 | 876 | 0.789616592 | ATP8B4 |
| 10 | 60,450,000 | 60,600,000 | 807 | 864 | 1.041893995 | ATP8B4 |
| 10 | 60,525,000 | 60,675,000 | 808 | 753 | 0.301615282 | ATP8B4 |
| 10 | 60,600,000 | 60,750,000 | 809 | 785 | 0.027222219 | ATP8B4 |
| 10 | 60,675,000 | 60,825,000 | 810 | 599 | 0.324844614 | |
| 10 | 60,750,000 | 60,900,000 | 811 | 630 | 0.530305553 | |
| 10 | 60,825,000 | 60,975,000 | 812 | 659 | 0.850452766 | DTWD1 |
| 10 | 60,900,000 | 61,050,000 | 813 | 423 | 1.155217346 | DTWD1,FGF7 |
| 10 | 60,975,000 | 61,125,000 | 814 | 355 | 1.399628079 | FGF7 |
| 10 | 61,050,000 | 61,200,000 | 815 | 377 | 1.480885586 | FGF7,GALK2 |
| 10 | 61,125,000 | 61,275,000 | 816 | 317 | 1.36737751 | GALK2 |
| 10 | 61,200,000 | 61,350,000 | 817 | 286 | 0.852304971 | COPS2,GALK2 |
| 10 | 61,275,000 | 61,425,000 | 818 | 345 | 0.698042968 | COPS2,GALK2,SECISBP2L |
| 10 | 61,350,000 | 61,500,000 | 819 | 344 | 0.737540883 | SECISBP2L |
| 10 | 61,425,000 | 61,575,000 | 820 | 320 | 0.450981244 | SECISBP2L,ENSBTAG00000005217,ENSBTAG00000046376 |
| 10 | 61,500,000 | 61,650,000 | 821 | 469 | 0.371530006 | EID1,SHC4,ENSBTAG00000005217,ENSBTAG00000046376 |
| 10 | 61,575,000 | 61,725,000 | 822 | 895 | 0.566280126 | CEP152,EID1,SHC4 |
| 10 | 61,650,000 | 61,800,000 | 823 | 1069 | 0.760484929 | CEP152 |
| 10 | 61,725,000 | 61,875,000 | 824 | 959 | 1.096297468 | CEP152 |
| 10 | 61,800,000 | 61,950,000 | 825 | 920 | 1.149576613 | FBN1 |
| 10 | 61,875,000 | 62,025,000 | 826 | 728 | 0.975927688 | FBN1 |
| 10 | 61,950,000 | 62,100,000 | 827 | 809 | 1.009339401 | FBN1 |
| 10 | 62,025,000 | 62,175,000 | 828 | 775 | 0.971356658 | FBN1 |
| 10 | 62,100,000 | 62,250,000 | 829 | 580 | 0.466649525 | FBN1 |
| 10 | 62,175,000 | 62,325,000 | 830 | 676 | 0.567146217 | DUT,SLC12A1 |
| 10 | 62,250,000 | 62,400,000 | 831 | 885 | 0.578810292 | DUT,SLC12A1 |
| 10 | 62,325,000 | 62,475,000 | 832 | 816 | 0.55404221 | CTXN2,MYEF2,SLC12A1,SLC24A5 |
| 10 | 62,400,000 | 62,550,000 | 833 | 535 | 0.25263772 | CTXN2,MYEF2,SLC12A1,SLC24A5 |
| 10 | 62,475,000 | 62,625,000 | 834 | 617 | 0.214442871 | SLC24A5 |
| 10 | 62,550,000 | 62,700,000 | 835 | 691 | 0.415259725 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 10 | 62,625,000 | 62,775,000 | 836 | 860 | 0.688269476 | |
| 10 | 62,700,000 | 62,850,000 | 837 | 877 | 0.717578337 | |
| 10 | 62,775,000 | 62,925,000 | 838 | 512 | 0.011029963 | SEMA6D |
| 10 | 62,850,000 | 63,000,000 | 839 | 579 | -0.833791802 | SEMA6D |
| 10 | 62,925,000 | 63,075,000 | 840 | 796 | -1.434972639 | |
| 10 | 63,000,000 | 63,150,000 | 841 | 859 | -1.506856022 | |
| 10 | 63,075,000 | 63,225,000 | 842 | 1154 | -0.920033886 | |
| 10 | 63,150,000 | 63,300,000 | 843 | 1222 | -0.242514734 | |
| 10 | 63,225,000 | 63,375,000 | 844 | 880 | 0.68581713 | |
| 10 | 63,300,000 | 63,450,000 | 845 | 873 | 0.223918187 | |
| 10 | 63,375,000 | 63,525,000 | 846 | 874 | 0.436005166 | |
| 10 | 63,450,000 | 63,600,000 | 847 | 869 | 0.662275171 | |
| 10 | 63,525,000 | 63,675,000 | 848 | 1014 | 1.023425333 | ENSBTAG00000006267 |
| 10 | 63,600,000 | 63,750,000 | 849 | 1021 | 1.292893891 | ENSBTAG00000006267 |
| 10 | 63,675,000 | 63,825,000 | 850 | 953 | 1.125558954 | |
| 10 | 63,750,000 | 63,900,000 | 851 | 1362 | 1.317017241 | |
| 10 | 63,825,000 | 63,975,000 | 852 | 1816 | 1.513179104 | |
| 10 | 63,900,000 | 64,050,000 | 853 | 1254 | 1.566895564 | |
| 10 | 63,975,000 | 64,125,000 | 854 | 665 | 1.585821657 | |
| 10 | 64,050,000 | 64,200,000 | 855 | 508 | 0.8500425 | |
| 10 | 64,125,000 | 64,275,000 | 856 | 587 | -0.085671117 | |
| 10 | 64,200,000 | 64,350,000 | 857 | 841 | 0.791911207 | |
| 10 | 64,275,000 | 64,425,000 | 858 | 846 | 0.118011328 | |
| 10 | 64,350,000 | 64,500,000 | 859 | 651 | -1.202706858 | |
| 10 | 64,425,000 | 64,575,000 | 860 | 520 | -1.206700533 | |
| 10 | 64,500,000 | 64,650,000 | 861 | 717 | 0.682706073 | |
| 10 | 64,575,000 | 64,725,000 | 862 | 1484 | 1.195867661 | |
| 10 | 64,650,000 | 64,800,000 | 863 | 1451 | 1.071772153 | |
| 10 | 64,725,000 | 64,875,000 | 864 | 1186 | -0.237526647 | |
| 10 | 64,800,000 | 64,950,000 | 865 | 1438 | 0.478049904 | |
| 10 | 64,875,000 | 65,025,000 | 866 | 1111 | 0.372826369 | |
| 10 | 64,950,000 | 65,100,000 | 867 | 775 | -2.34058356 | SQRDL |
| 10 | 65,025,000 | 65,175,000 | 868 | 706 | -1.98141241 | BLOC1S6,SQRDL |
| 10 | 65,100,000 | 65,250,000 | 869 | 728 | 0.519806688 | BLOC1S6,MGC165862,SLC30A4 |
| 10 | 65,175,000 | 65,325,000 | 870 | 525 | 0.397061326 | MGC165862,SLC30A4,SPATA5L1 |
| 10 | 65,250,000 | 65,400,000 | 871 | 338 | 0.112052667 | GATM,SLC28A2,SPATA5L1,ENSBTAG00000027251 |
| 10 | 65,325,000 | 65,475,000 | 872 | 557 | 0.231588882 | GATM,SHF,SLC28A2,ENSBTAG00000027251 |
| 10 | 65,400,000 | 65,550,000 | 873 | 535 | -0.142206729 | DUOX1,DUOX2,DUOXA1,DUOXA2,SHF,SLC28A2 |
| 10 | 65,475,000 | 65,625,000 | 874 | 425 | 0.330852759 | DUOX1,DUOX2,DUOXA1,DUOXA2,SHF,SORD |
| 10 | 65,550,000 | 65,700,000 | 875 | 902 | 1.250727927 | DUOX2,SORD,ENSBTAG00000038327 |
| 10 | 65,625,000 | 65,775,000 | 876 | 1011 | 1.157940098 | FERMT2,ENSBTAG00000038327,ENSBTAG00000047170 |
| 10 | 65,700,000 | 65,850,000 | 877 | 523 | 0.87394495 | FERMT2,ENSBTAG00000047170 |
| 10 | 65,775,000 | 65,925,000 | 878 | 699 | -1.417707455 | DDHD1,FERMT2 |
| 10 | 65,850,000 | 66,000,000 | 879 | 907 | -1.093302446 | DDHD1 |
| 10 | 65,925,000 | 66,075,000 | 880 | 752 | 0.614767679 | DDHD1 |
| 10 | 66,000,000 | 66,150,000 | 881 | 869 | 1.148382397 | |
| 10 | 66,075,000 | 66,225,000 | 882 | 707 | 0.680363001 | |
| 10 | 66,150,000 | 66,300,000 | 883 | 601 | 0.324885011 | |
| 10 | 66,225,000 | 66,375,000 | 884 | 667 | 0.052414344 | |
| 10 | 66,300,000 | 66,450,000 | 885 | 640 | -0.03681077 | |
| 10 | 66,375,000 | 66,525,000 | 886 | 661 | 0.243343704 | |
| 10 | 66,450,000 | 66,600,000 | 887 | 513 | -0.394089578 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 10 | 66,525,000 | 66,675,000 | 888 | 414 | -0.867124759 | |
| 10 | 66,600,000 | 66,750,000 | 889 | 412 | -2.739026318 | ENSBTAG00000047239 |
| 10 | 66,675,000 | 66,825,000 | 890 | 586 | -2.168308035 | BMP4,ENSBTAG00000047239 |
| 10 | 66,750,000 | 66,900,000 | 891 | 648 | -0.509066872 | BMP4 |
| 10 | 66,825,000 | 66,975,000 | 892 | 642 | -1.852185263 | |
| 10 | 66,900,000 | 67,050,000 | 893 | 705 | -1.494684631 | |
| 10 | 66,975,000 | 67,125,000 | 894 | 663 | -0.216248327 | |
| 10 | 67,050,000 | 67,200,000 | 895 | 736 | 0.685310907 | CDKN3,CNIH1 |
| 10 | 67,125,000 | 67,275,000 | 896 | 1025 | 1.31642003 | CDKN3,CGRRF1,CNIH1,GMFB |
| 10 | 67,200,000 | 67,350,000 | 897 | 1029 | 0.932506729 | CGRRF1,GMFB |
| 10 | 67,275,000 | 67,425,000 | 898 | 615 | 0.121779068 | |
| 10 | 67,350,000 | 67,500,000 | 899 | 365 | 0.350297112 | SAMD4A |
| 10 | 67,425,000 | 67,575,000 | 900 | 399 | 0.744279351 | SAMD4A |
| 10 | 67,500,000 | 67,650,000 | 901 | 537 | 0.684167383 | GCH1,SAMD4A |
| 10 | 67,575,000 | 67,725,000 | 902 | 410 | 0.394319912 | GCH1,WDHD1 |
| 10 | 67,650,000 | 67,800,000 | 903 | 251 | 0.021437693 | MAPK1IP1L,SOCS4,WDHD1 |
| 10 | 67,725,000 | 67,875,000 | 904 | 398 | 0.672409016 | DLGAP5,LGALS3,MAPK1IP1L,SOCS4,WDHD1 |
| 10 | 67,800,000 | 67,950,000 | 905 | 637 | 0.486084623 | DLGAP5,LGALS3 |
| 10 | 67,875,000 | 68,025,000 | 906 | 950 | 0.551887373 | DLGAP5 |
| 10 | 67,950,000 | 68,100,000 | 907 | 968 | 0.90264062 | ATG14,FBXO34 |
| 10 | 68,025,000 | 68,175,000 | 908 | 798 | 0.26933803 | ATG14,FBXO34,TBPL2 |
| 10 | 68,100,000 | 68,250,000 | 909 | 818 | 0.356153847 | ATG14,KTN1,TBPL2 |
| 10 | 68,175,000 | 68,325,000 | 910 | 867 | 0.340353761 | KTN1 |
| 10 | 68,250,000 | 68,400,000 | 911 | 846 | -0.339863182 | KTN1 |
| 10 | 68,325,000 | 68,475,000 | 912 | 811 | -1.559302668 | KTN1 |
| 10 | 68,400,000 | 68,550,000 | 913 | 861 | -1.838816366 | |
| 10 | 68,475,000 | 68,625,000 | 914 | 659 | -1.591495187 | |
| 10 | 68,550,000 | 68,700,000 | 915 | 472 | -2.282097394 | |
| 10 | 68,625,000 | 68,775,000 | 916 | 467 | -2.353654548 | |
| 10 | 68,700,000 | 68,850,000 | 917 | 866 | -0.481817909 | PELI2 |
| 10 | 68,775,000 | 68,925,000 | 918 | 1110 | 0.46585207 | PELI2 |
| 10 | 68,850,000 | 69,000,000 | 919 | 760 | 1.132875081 | PELI2 |
| 10 | 68,925,000 | 69,075,000 | 920 | 813 | 0.600888295 | PELI2 |
| 10 | 69,000,000 | 69,150,000 | 921 | 992 | 0.124855195 | |
| 10 | 69,075,000 | 69,225,000 | 922 | 846 | -0.477621885 | |
| 10 | 69,150,000 | 69,300,000 | 923 | 719 | 0.12224063 | TMEM260 |
| 10 | 69,225,000 | 69,375,000 | 924 | 691 | -1.063051952 | TMEM260 |
| 10 | 69,300,000 | 69,450,000 | 925 | 584 | -1.045469192 | TMEM260 |
| 10 | 69,375,000 | 69,525,000 | 926 | 601 | 0.160313259 | OTX2 |
| 10 | 69,450,000 | 69,600,000 | 927 | 676 | -0.393266469 | OTX2 |
| 10 | 69,525,000 | 69,675,000 | 928 | 730 | -0.180847019 | |
| 10 | 69,600,000 | 69,750,000 | 929 | 835 | 0.371016148 | |
| 10 | 69,675,000 | 69,825,000 | 930 | 904 | -0.343583892 | |
| 10 | 69,750,000 | 69,900,000 | 931 | 705 | -0.677958542 | EXOC5 |
| 10 | 69,825,000 | 69,975,000 | 932 | 503 | 0.473642252 | AP5M1,EXOC5 |
| 10 | 69,900,000 | 70,050,000 | 933 | 439 | 0.801414849 | AP5M1,EXOC5,NAA30 |
| 10 | 69,975,000 | 70,125,000 | 934 | 648 | 0.479399469 | C14orf105,NAA30 |
| 10 | 70,050,000 | 70,200,000 | 935 | 788 | -0.153480965 | C14orf105,SLC35F4 |
| 10 | 70,125,000 | 70,275,000 | 936 | 659 | -0.735912221 | SLC35F4 |
| 10 | 70,200,000 | 70,350,000 | 937 | 964 | 0.194413506 | |
| 10 | 70,275,000 | 70,425,000 | 938 | 922 | 0.428734523 | |
| 10 | 70,350,000 | 70,500,000 | 939 | 835 | 0.980006662 | |
| 10 | 70,425,000 | 70,575,000 | 940 | 995 | 0.950632418 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 10 | 70,500,000 | 70,650,000 | 941 | 888 | 0.05750192 | C14orf37 |
| 10 | 70,575,000 | 70,725,000 | 942 | 630 | -0.761571548 | C14orf37 |
| 10 | 70,650,000 | 70,800,000 | 943 | 414 | -1.736648117 | ACTR10,C14orf37,PSMA3 |
| 10 | 70,725,000 | 70,875,000 | 944 | 334 | -1.43076836 | ACTR10,ARID4A,PSMA3 |
| 10 | 70,800,000 | 70,950,000 | 945 | 333 | -2.346206232 | ARID4A,KIAA0586,PSMA3,TIMM9 |
| 10 | 70,875,000 | 71,025,000 | 946 | 355 | -3.866919245 | ARID4A,KIAA0586,TIMM9 |
| 10 | 70,950,000 | 71,100,000 | 947 | 605 | -1.608476061 | KIAA0586 |
| 10 | 71,025,000 | 71,175,000 | 948 | 720 | -0.325265994 | DACT1,KIAA0586 |
| 10 | 71,100,000 | 71,250,000 | 949 | 586 | 0.992292512 | DACT1 |
| 10 | 71,175,000 | 71,325,000 | 950 | 570 | 0.9907028 | |
| 10 | 71,250,000 | 71,400,000 | 951 | 503 | 0.856532163 | |
| 10 | 71,325,000 | 71,475,000 | 952 | 511 | 0.808296477 | |
| 10 | 71,400,000 | 71,550,000 | 953 | 564 | 0.940450789 | |
| 10 | 71,475,000 | 71,625,000 | 954 | 665 | -0.121922751 | ENSBTAG00000045799 |
| 10 | 71,550,000 | 71,700,000 | 955 | 758 | -0.226393502 | ENSBTAG00000045799 |
| 10 | 71,625,000 | 71,775,000 | 956 | 685 | -0.747026664 | DAAM1 |
| 10 | 71,700,000 | 71,850,000 | 957 | 432 | -2.619366037 | DAAM1 |
| 10 | 71,775,000 | 71,925,000 | 958 | 281 | -3.212840807 | DAAM1 |
| 10 | 71,850,000 | 72,000,000 | 959 | 464 | -4.034971179 | DAAM1,GPR135,L3HYPDH |
| 10 | 71,925,000 | 72,075,000 | 960 | 717 | -2.008441155 | CCDC175,GPR135,JAMP,L3HYPDH |
| 10 | 72,000,000 | 72,150,000 | 961 | 521 | 0.29033208 | CCDC175,JAMP,L3HYPDH,RTN1 |
| 10 | 72,075,000 | 72,225,000 | 962 | 324 | 0.808340364 | CCDC175,RTN1 |
| 10 | 72,150,000 | 72,300,000 | 963 | 718 | 0.800742671 | COX7C,RTN1 |
| 10 | 72,225,000 | 72,375,000 | 964 | 967 | 0.204437332 | COX7C,RTN1 |
| 10 | 72,300,000 | 72,450,000 | 965 | 714 | -0.109163788 | LRRC9 |
| 10 | 72,375,000 | 72,525,000 | 966 | 557 | 0.847948369 | LRRC9 |
| 10 | 72,450,000 | 72,600,000 | 967 | 708 | 0.344698239 | LRRC9,PCNXL4 |
| 10 | 72,525,000 | 72,675,000 | 968 | 779 | 0.244106221 | DHRS7,PCNXL4 |
| 10 | 72,600,000 | 72,750,000 | 969 | 749 | 0.58966173 | DHRS7,PCNXL4 |
| 10 | 72,675,000 | 72,825,000 | 970 | 658 | 0.872274109 | PPM1A |
| 10 | 72,750,000 | 72,900,000 | 971 | 407 | 1.170199728 | C14orf39,PPM1A |
| 10 | 72,825,000 | 72,975,000 | 972 | 268 | 1.500910406 | C14orf39,SIX6 |
| 10 | 72,900,000 | 73,050,000 | 973 | 396 | 1.342362885 | C14orf39,SIX6 |
| 10 | 72,975,000 | 73,125,000 | 974 | 416 | 1.298718201 | SIX1 |
| 10 | 73,050,000 | 73,200,000 | 975 | 381 | 1.360418842 | MNAT1,SIX1,ENSBTAG00000046309 |
| 10 | 73,125,000 | 73,275,000 | 976 | 367 | 1.271569015 | MNAT1,ENSBTAG00000046309 |
| 10 | 73,200,000 | 73,350,000 | 977 | 236 | 1.183417722 | MNAT1 |
| 10 | 73,275,000 | 73,425,000 | 978 | 375 | 0.006434983 | MNAT1,SLC38A6,TRMT5 |
| 10 | 73,350,000 | 73,500,000 | 979 | 598 | -1.386663858 | MNAT1,SLC38A6,TRMT5 |
| 10 | 73,425,000 | 73,575,000 | 980 | 534 | -1.073753036 | SLC38A6 |
| 10 | 73,500,000 | 73,650,000 | 981 | 475 | 1.059822794 | TMEM30B,ENSBTAG00000047000 |
| 10 | 73,575,000 | 73,725,000 | 982 | 512 | 0.960540965 | PRKCH,TMEM30B,ENSBTAG00000047000 |
| 10 | 73,650,000 | 73,800,000 | 983 | 801 | -0.450733639 | PRKCH |
| 10 | 73,725,000 | 73,875,000 | 984 | 991 | -1.041163943 | PRKCH |
| 10 | 73,800,000 | 73,950,000 | 985 | 882 | -1.622687566 | PRKCH |
| 10 | 73,875,000 | 74,025,000 | 986 | 670 | -1.589917933 | PRKCH |
| 10 | 73,950,000 | 74,100,000 | 987 | 484 | -0.042046063 | HIF1A |
| 10 | 74,025,000 | 74,175,000 | 988 | 603 | 0.22996353 | HIF1A,SNAPC1 |
| 10 | 74,100,000 | 74,250,000 | 989 | 906 | -0.139946578 | HIF1A,SNAPC1 |
| 10 | 74,175,000 | 74,325,000 | 990 | 1279 | 0.40218409 | SNAPC1 |
| 10 | 74,250,000 | 74,400,000 | 991 | 984 | 0.216810181 | SYT16 |
| 10 | 74,325,000 | 74,475,000 | 992 | 610 | -1.698915212 | SYT16 |
| 10 | 74,400,000 | 74,550,000 | 993 | 753 | -2.657342874 | SYT16,ENSBTAG00000030792 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 74,475,000 | 74,625,000 | 994 | 707 | -2.894473075 | SYT16,ENSBTAG00000030792 |
| 10 | 74,550,000 | 74,700,000 | 995 | 972 | 0.427201037 | |
| 10 | 74,625,000 | 74,775,000 | 996 | 1362 | 0.956955924 | |
| 10 | 74,700,000 | 74,850,000 | 997 | 1223 | 0.803536002 | |
| 10 | 74,775,000 | 74,925,000 | 998 | 789 | 0.035118464 | |
| 10 | 74,850,000 | 75,000,000 | 999 | 518 | -0.638285487 | |
| 10 | 74,925,000 | 75,075,000 | 1000 | 510 | -3.034442613 | |
| 10 | 75,000,000 | 75,150,000 | 1001 | 542 | -3.283069765 | |
| 10 | 75,075,000 | 75,225,000 | 1002 | 520 | -0.272775897 | |
| 10 | 75,150,000 | 75,300,000 | 1003 | 548 | 0.928499395 | KCNH5 |
| 10 | 75,225,000 | 75,375,000 | 1004 | 592 | 0.841190572 | KCNH5 |
| 10 | 75,300,000 | 75,450,000 | 1005 | 946 | 1.180076832 | KCNH5 |
| 10 | 75,375,000 | 75,525,000 | 1006 | 1417 | 1.083330902 | KCNH5 |
| 10 | 75,450,000 | 75,600,000 | 1007 | 1078 | 0.640687913 | KCNH5 |
| 10 | 75,525,000 | 75,675,000 | 1008 | 825 | 0.436589497 | KCNH5 |
| 10 | 75,600,000 | 75,750,000 | 1009 | 1031 | 0.407663664 | KCNH5 |
| 10 | 75,675,000 | 75,825,000 | 1010 | 1163 | 0.437978623 | RHOJ |
| 10 | 75,750,000 | 75,900,000 | 1011 | 779 | 0.657834095 | RHOJ |
| 10 | 75,825,000 | 75,975,000 | 1012 | 685 | 0.571367628 | PPP2R5E,RHOJ |
| 10 | 75,900,000 | 76,050,000 | 1013 | 905 | 0.348243198 | PPP2R5E |
| 10 | 75,975,000 | 76,125,000 | 1014 | 811 | 0.15838189 | PPP2R5E |
| 10 | 76,050,000 | 76,200,000 | 1015 | 666 | 0.488972532 | PPP2R5E,WDR89 |
| 10 | 76,125,000 | 76,275,000 | 1016 | 551 | 0.630866036 | SGPP1,WDR89 |
| 10 | 76,200,000 | 76,350,000 | 1017 | 911 | 0.519176843 | SGPP1 |
| 10 | 76,275,000 | 76,425,000 | 1018 | 1090 | 0.325423126 | SGPP1,SYNE2 |
| 10 | 76,350,000 | 76,500,000 | 1019 | 1166 | -0.69689185 | SYNE2 |
| 10 | 76,425,000 | 76,575,000 | 1020 | 1368 | -0.871819308 | SYNE2 |
| 10 | 76,500,000 | 76,650,000 | 1021 | 942 | -0.081775039 | SYNE2 |
| 10 | 76,575,000 | 76,725,000 | 1022 | 500 | 0.397363943 | ESR2,SYNE2 |
| 10 | 76,650,000 | 76,800,000 | 1023 | 716 | -0.045323424 | ESR2,SYNE2 |
| 10 | 76,725,000 | 76,875,000 | 1024 | 967 | -0.67741325 | ESR2,MTHFD1,ENSBTAG00000013836 |
| 10 | 76,800,000 | 76,950,000 | 1025 | 797 | -0.654724137 | AKAP5,MTHFD1,ZBTB25,ENSBTAG00000013836 |
| 10 | 76,875,000 | 77,025,000 | 1026 | 610 | -0.13127989 | AKAP5,MTHFD1,PPP1R36,ZBTB1,ZBTB25 |
| 10 | 76,950,000 | 77,100,000 | 1027 | 977 | -0.156323622 | PPP1R36,ZBTB1,ZBTB25 |
| 10 | 77,025,000 | 77,175,000 | 1028 | 1092 | -0.046120234 | |
| 10 | 77,100,000 | 77,250,000 | 1029 | 645 | 0.453688198 | PLEKHG3,SPTB |
| 10 | 77,175,000 | 77,325,000 | 1030 | 450 | 0.339685584 | PLEKHG3,SPTB |
| 10 | 77,250,000 | 77,400,000 | 1031 | 707 | 0.645807158 | CHURC1,GPX2,RAB15,SPTB |
| 10 | 77,325,000 | 77,475,000 | 1032 | 897 | 0.590070527 | CHURC1,FNTB,GPX2,RAB15 |
| 10 | 77,400,000 | 77,550,000 | 1033 | 749 | 0.286711395 | FNTB,MAX,RAB15 |
| 10 | 77,475,000 | 77,625,000 | 1034 | 642 | 0.351564677 | FNTB,MAX |
| 10 | 77,550,000 | 77,700,000 | 1035 | 781 | 0.705764372 | |
| 10 | 77,625,000 | 77,775,000 | 1036 | 854 | -0.046459197 | |
| 10 | 77,700,000 | 77,850,000 | 1037 | 889 | -0.402730151 | |
| 10 | 77,775,000 | 77,925,000 | 1038 | 952 | -0.363064753 | |
| 10 | 77,850,000 | 78,000,000 | 1039 | 724 | -0.669485304 | FUT8 |
| 10 | 77,925,000 | 78,075,000 | 1040 | 840 | 0.65412793 | FUT8 |
| 10 | 78,000,000 | 78,150,000 | 1041 | 1151 | 1.078461048 | FUT8 |
| 10 | 78,075,000 | 78,225,000 | 1042 | 1207 | 1.162614288 | FUT8 |
| 10 | 78,150,000 | 78,300,000 | 1043 | 974 | 0.951661809 | FUT8 |
| 10 | 78,225,000 | 78,375,000 | 1044 | 552 | 0.356281185 | |
| 10 | 78,300,000 | 78,450,000 | 1045 | 690 | 0.156086884 | |
| 10 | 78,375,000 | 78,525,000 | 1046 | 1016 | 0.647232928 | ENSBTAG00000037625 |

| | | | | | | |
|----|------------|------------|------|-----|--------------|---------------------------------------|
| 10 | 78,450,000 | 78,600,000 | 1047 | 977 | 0.826491582 | ENSBTAG00000037625 |
| 10 | 78,525,000 | 78,675,000 | 1048 | 928 | 0.775181171 | |
| 10 | 78,600,000 | 78,750,000 | 1049 | 697 | 0.98224961 | |
| 10 | 78,675,000 | 78,825,000 | 1050 | 624 | 0.800269086 | |
| 10 | 78,750,000 | 78,900,000 | 1051 | 549 | 0.564515292 | C10H14orf53 |
| 10 | 78,825,000 | 78,975,000 | 1052 | 317 | -1.012742162 | C10H14orf53,GPHN |
| 10 | 78,900,000 | 79,050,000 | 1053 | 360 | -1.27126245 | GPHN |
| 10 | 78,975,000 | 79,125,000 | 1054 | 361 | -0.593887184 | GPHN |
| 10 | 79,050,000 | 79,200,000 | 1055 | 642 | -0.091989138 | GPHN |
| 10 | 79,125,000 | 79,275,000 | 1056 | 659 | -0.089312424 | GPHN |
| 10 | 79,200,000 | 79,350,000 | 1057 | 437 | 0.213530775 | GPHN |
| 10 | 79,275,000 | 79,425,000 | 1058 | 434 | 0.615585194 | GPHN |
| 10 | 79,350,000 | 79,500,000 | 1059 | 604 | 0.767466366 | FAM71D,GPHN |
| 10 | 79,425,000 | 79,575,000 | 1060 | 531 | 0.824924075 | FAM71D,GPHN,MPP5 |
| 10 | 79,500,000 | 79,650,000 | 1061 | 250 | 0.922947108 | ATP6V1D,EIF2S1,MPP5,PLEK2 |
| 10 | 79,575,000 | 79,725,000 | 1062 | 287 | 0.238593153 | ATP6V1D,EIF2S1,MPP5,PLEK2,TMEM229B |
| 10 | 79,650,000 | 79,800,000 | 1063 | 320 | 0.336235749 | PLEKHH1,TMEM229B |
| 10 | 79,725,000 | 79,875,000 | 1064 | 326 | 1.150881481 | PIGH,PLEKHH1,RPL39,ENSBTAG00000046048 |
| 10 | 79,800,000 | 79,950,000 | 1065 | 363 | 0.756547988 | PIGH,PLEKHH1,RPL39,ENSBTAG00000046048 |
| 10 | 79,875,000 | 80,025,000 | 1066 | 403 | 0.813255143 | |
| 10 | 79,950,000 | 80,100,000 | 1067 | 353 | 1.0260174 | ARG2 |
| 10 | 80,025,000 | 80,175,000 | 1068 | 254 | 0.920782892 | ARG2,RDH11,RDH12,VTI1B |
| 10 | 80,100,000 | 80,250,000 | 1069 | 345 | 1.414873296 | ARG2,RAD51B,RDH11,RDH12,VTI1B,ZFYVE26 |
| 10 | 80,175,000 | 80,325,000 | 1070 | 526 | 1.257221321 | RAD51B,ZFYVE26 |
| 10 | 80,250,000 | 80,400,000 | 1071 | 461 | 1.063537934 | RAD51B |
| 10 | 80,325,000 | 80,475,000 | 1072 | 381 | 1.130435572 | RAD51B |
| 10 | 80,400,000 | 80,550,000 | 1073 | 353 | 0.892695565 | RAD51B |
| 10 | 80,475,000 | 80,625,000 | 1074 | 370 | 0.488846132 | RAD51B |
| 10 | 80,550,000 | 80,700,000 | 1075 | 399 | 0.674159291 | RAD51B |
| 10 | 80,625,000 | 80,775,000 | 1076 | 311 | 0.738738878 | RAD51B |
| 10 | 80,700,000 | 80,850,000 | 1077 | 326 | -0.413975452 | |
| 10 | 80,775,000 | 80,925,000 | 1078 | 533 | -1.904916285 | |
| 10 | 80,850,000 | 81,000,000 | 1079 | 576 | -1.914868961 | ZFP36L1 |
| 10 | 80,925,000 | 81,075,000 | 1080 | 520 | -1.111657132 | ACTN1,ZFP36L1 |
| 10 | 81,000,000 | 81,150,000 | 1081 | 804 | -1.153092776 | ACTN1 |
| 10 | 81,075,000 | 81,225,000 | 1082 | 738 | -0.617667274 | ACTN1,DCAF5 |
| 10 | 81,150,000 | 81,300,000 | 1083 | 358 | 0.911194698 | DCAF5 |
| 10 | 81,225,000 | 81,375,000 | 1084 | 483 | 1.004355161 | DCAF5,EXD2 |
| 10 | 81,300,000 | 81,450,000 | 1085 | 686 | 0.832969285 | EXD2,GALNTL1 |
| 10 | 81,375,000 | 81,525,000 | 1086 | 863 | 0.755349262 | ERH,EXD2,GALNTL1 |
| 10 | 81,450,000 | 81,600,000 | 1087 | 841 | 0.749154478 | ERH,GALNTL1,PLEKHD1,SLC39A9 |
| 10 | 81,525,000 | 81,675,000 | 1088 | 579 | 0.73142994 | ERH,PLEKHD1,SLC39A9 |
| 10 | 81,600,000 | 81,750,000 | 1089 | 444 | 0.332854915 | CCDC177,PLEKHD1 |
| 10 | 81,675,000 | 81,825,000 | 1090 | 341 | -0.864992105 | CCDC177,KIAA0247 |
| 10 | 81,750,000 | 81,900,000 | 1091 | 367 | -0.135223744 | KIAA0247,SFRS5,SLC10A1 |
| 10 | 81,825,000 | 81,975,000 | 1092 | 447 | 0.512910021 | SFRS5,SLC10A1,SMOC1 |
| 10 | 81,900,000 | 82,050,000 | 1093 | 437 | 0.721373737 | SMOC1 |
| 10 | 81,975,000 | 82,125,000 | 1094 | 426 | 0.771279345 | SMOC1 |
| 10 | 82,050,000 | 82,200,000 | 1095 | 569 | 1.025864438 | SLC8A3,SMOC1 |
| 10 | 82,125,000 | 82,275,000 | 1096 | 661 | 1.091809325 | SLC8A3 |
| 10 | 82,200,000 | 82,350,000 | 1097 | 488 | 0.21034644 | SLC8A3,SYNJ2BP |
| 10 | 82,275,000 | 82,425,000 | 1098 | 532 | -0.293242804 | COX16,SYNJ2BP |
| 10 | 82,350,000 | 82,500,000 | 1099 | 655 | 0.486632006 | COX16,SYNJ2BP,ENSBTAG00000037932 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 10 | 82,425,000 | 82,575,000 | 1100 | 599 | 0.148521715 | ADAM20,ADAM21,COX16,MED6,ENSBTAG000000379 |
| | | | | | | 32,ENSBTAG00000039950,ENSBTAG00000045679 |
| 10 | 82,500,000 | 82,650,000 | 1101 | 815 | -2.103921227 | ADAM20,ADAM21,MED6,TTC9,ENSBTAG0000003995 |
| | | | | | | 0,ENSBTAG00000045679 |
| 10 | 82,575,000 | 82,725,000 | 1102 | 880 | -1.581851231 | MED6,TTC9,ENSBTAG00000039950,ENSBTAG0000004 |
| | | | | | | 5679 |
| 10 | 82,650,000 | 82,800,000 | 1103 | 693 | -0.066939804 | MAP3K9,TTC9 |
| 10 | 82,725,000 | 82,875,000 | 1104 | 666 | 0.004871542 | MAP3K9 |
| 10 | 82,800,000 | 82,950,000 | 1105 | 606 | 0.500873581 | MAP3K9,PCNX |
| 10 | 82,875,000 | 83,025,000 | 1106 | 590 | 0.881767975 | PCNX |
| 10 | 82,950,000 | 83,100,000 | 1107 | 704 | 1.108772058 | PCNX |
| 10 | 83,025,000 | 83,175,000 | 1108 | 973 | 0.965666584 | PCNX |
| 10 | 83,100,000 | 83,250,000 | 1109 | 1066 | 1.049989015 | ENSBTAG00000005395 |
| 10 | 83,175,000 | 83,325,000 | 1110 | 771 | 1.405556717 | ENSBTAG00000005395 |
| 10 | 83,250,000 | 83,400,000 | 1111 | 656 | 1.102852487 | |
| 10 | 83,325,000 | 83,475,000 | 1112 | 768 | 0.005722625 | |
| 10 | 83,400,000 | 83,550,000 | 1113 | 630 | -0.732485323 | RPL12,SIPA1L1 |
| 10 | 83,475,000 | 83,625,000 | 1114 | 646 | 0.240853183 | RPL12,SIPA1L1 |
| 10 | 83,550,000 | 83,700,000 | 1115 | 695 | 0.599553832 | SIPA1L1 |
| 10 | 83,625,000 | 83,775,000 | 1116 | 552 | 0.969551945 | |
| 10 | 83,700,000 | 83,850,000 | 1117 | 571 | 0.909393172 | |
| 10 | 83,775,000 | 83,925,000 | 1118 | 992 | 1.001732418 | |
| 10 | 83,850,000 | 84,000,000 | 1119 | 1284 | 1.135738707 | |
| 10 | 83,925,000 | 84,075,000 | 1120 | 949 | 1.001338693 | |
| 10 | 84,000,000 | 84,150,000 | 1121 | 556 | 0.376742944 | |
| 10 | 84,075,000 | 84,225,000 | 1122 | 575 | 0.729639211 | |
| 10 | 84,150,000 | 84,300,000 | 1123 | 1009 | 1.157148287 | |
| 10 | 84,225,000 | 84,375,000 | 1124 | 991 | 0.568205198 | RGS6 |
| 10 | 84,300,000 | 84,450,000 | 1125 | 710 | -0.053030932 | RGS6 |
| 10 | 84,375,000 | 84,525,000 | 1126 | 928 | 0.563830296 | DPF3,RGS6 |
| 10 | 84,450,000 | 84,600,000 | 1127 | 782 | 0.639463088 | DPF3 |
| 10 | 84,525,000 | 84,675,000 | 1128 | 502 | 0.275414936 | DPF3 |
| 10 | 84,600,000 | 84,750,000 | 1129 | 808 | 0.360727317 | DPF3,ENSBTAG00000046952 |
| 10 | 84,675,000 | 84,825,000 | 1130 | 1129 | 0.612746576 | ENSBTAG00000046952 |
| 10 | 84,750,000 | 84,900,000 | 1131 | 879 | 0.323898281 | WDR21A,ZFYVE1 |
| 10 | 84,825,000 | 84,975,000 | 1132 | 312 | -1.191819634 | RBM25,WDR21A,ZFYVE1 |
| 10 | 84,900,000 | 85,050,000 | 1133 | 197 | -3.233643834 | PSEN1,RBM25,ZFYVE1 |
| 10 | 84,975,000 | 85,125,000 | 1134 | 307 | -2.180984579 | PAPLN,PSEN1,RBM25 |
| 10 | 85,050,000 | 85,200,000 | 1135 | 316 | -0.878107998 | NUMB,PAPLN,PSEN1 |
| 10 | 85,125,000 | 85,275,000 | 1136 | 282 | 0.087861459 | NUMB |
| 10 | 85,200,000 | 85,350,000 | 1137 | 341 | 0.611587906 | C14orf169,HEATR4 |
| 10 | 85,275,000 | 85,425,000 | 1138 | 592 | -0.889470395 | ACOT2,C14orf169,HEATR4,MGC160092 |
| 10 | 85,350,000 | 85,500,000 | 1139 | 957 | -3.632111408 | ACOT2,ACOT6,DNAL1,HEATR4,MGC160092,ENSBTAG |
| | | | | | | 0000009783,ENSBTAG00000010270 |
| 10 | 85,425,000 | 85,575,000 | 1140 | 810 | -4.88747963 | ACOT6,DNAL1,ELMSAN1,PNMA1,ENSBTAG00000009 |
| | | | | | | 783,ENSBTAG00000010270 |
| 10 | 85,500,000 | 85,650,000 | 1141 | 570 | -4.01889894 | DNAL1,ELMSAN1,PNMA1,PTGR2 |
| 10 | 85,575,000 | 85,725,000 | 1142 | 597 | -3.122256403 | FAM161B,PTGR2,ZNF410 |
| 10 | 85,650,000 | 85,800,000 | 1143 | 517 | -0.432381441 | CCDC176,COQ6,ENTPD5,FAM161B,PTGR2,ZNF410 |
| 10 | 85,725,000 | 85,875,000 | 1144 | 386 | -0.244886084 | ALDH6A1,CCDC176,COQ6,ENTPD5,LIN52 |
| 10 | 85,800,000 | 85,950,000 | 1145 | 237 | -0.003265046 | ALDH6A1,CCDC176,LIN52 |
| 10 | 85,875,000 | 86,025,000 | 1146 | 357 | -0.818449071 | ABCD4,LIN52,VSX2 |
| 10 | 85,950,000 | 86,100,000 | 1147 | 663 | 0.415042076 | ABCD4,LIN52,VRTN,VSX2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 86,025,000 | 86,175,000 | 1148 | 911 | 0.926266917 | ABCD4,NPC2,SYNDIG1L,VRTN |
| 10 | 86,100,000 | 86,250,000 | 1149 | 963 | 0.949474075 | ISCA2,LTBP2,NPC2,SYNDIG1L |
| 10 | 86,175,000 | 86,325,000 | 1150 | 752 | 1.325584964 | ISCA2,LTBP2,NPC2 |
| 10 | 86,250,000 | 86,400,000 | 1151 | 686 | 1.308373324 | AREL1,FCF1,LTBP2 |
| 10 | 86,325,000 | 86,475,000 | 1152 | 625 | 1.073595326 | AREL1,FCF1,YLPM1 |
| 10 | 86,400,000 | 86,550,000 | 1153 | 627 | 0.013761306 | DLST,PROX2,YLPM1 |
| 10 | 86,475,000 | 86,625,000 | 1154 | 752 | -0.603739179 | DLST,PGF,PROX2,RPS6KL1,YLPM1 |
| 10 | 86,550,000 | 86,700,000 | 1155 | 633 | -1.701054824 | DLST,EIF2B2,MLH3,PGF,RPS6KL1 |
| 10 | 86,625,000 | 86,775,000 | 1156 | 535 | -1.434621463 | ACYP1,EIF2B2,MLH3,NEK9,TMED10,ZC2HC1C |
| 10 | 86,700,000 | 86,850,000 | 1157 | 675 | 0.183734419 | ACYP1,NEK9,TMED10,ZC2HC1C |
| 10 | 86,775,000 | 86,925,000 | 1158 | 907 | 0.147131444 | FOS,TMED10 |
| 10 | 86,850,000 | 87,000,000 | 1159 | 830 | -0.146306532 | FOS |
| 10 | 86,925,000 | 87,075,000 | 1160 | 715 | 0.379004695 | JDP2 |
| 10 | 87,000,000 | 87,150,000 | 1161 | 598 | 0.499569667 | BATF,JDP2 |
| 10 | 87,075,000 | 87,225,000 | 1162 | 497 | -0.577291235 | BATF,ENSBTAG00000040078 |
| 10 | 87,150,000 | 87,300,000 | 1163 | 612 | -0.182754133 | CAMK4,STARD4,ENSBTAG00000040078 |
| 10 | 87,225,000 | 87,375,000 | 1164 | 637 | 0.381145055 | CAMK4,NCL,STARD4 |
| 10 | 87,300,000 | 87,450,000 | 1165 | 798 | 0.6358601 | CAMK4,NCL |
| 10 | 87,375,000 | 87,525,000 | 1166 | 720 | 0.88091948 | |
| 10 | 87,450,000 | 87,600,000 | 1167 | 555 | 1.170095424 | |
| 10 | 87,525,000 | 87,675,000 | 1168 | 520 | 0.861745317 | WDR36 |
| 10 | 87,600,000 | 87,750,000 | 1169 | 353 | -0.301623849 | WDR36 |
| 10 | 87,675,000 | 87,825,000 | 1170 | 433 | -1.58341783 | WDR36 |
| 10 | 87,750,000 | 87,900,000 | 1171 | 691 | -0.88968079 | ENSBTAG00000011985 |
| 10 | 87,825,000 | 87,975,000 | 1172 | 647 | 0.594795311 | C10H14ORF1,TTLL5,ENSBTAG00000011985 |
| 10 | 87,900,000 | 88,050,000 | 1173 | 447 | 0.59359141 | C10H14ORF1,TTLL5,ENSBTAG00000011985 |
| 10 | 87,975,000 | 88,125,000 | 1174 | 410 | 0.47570659 | TTLL5 |
| 10 | 88,050,000 | 88,200,000 | 1175 | 485 | 0.126475147 | TTLL5 |
| 10 | 88,125,000 | 88,275,000 | 1176 | 425 | -0.006081177 | IFT43,TGFB3,TTLL5 |
| 10 | 88,200,000 | 88,350,000 | 1177 | 382 | -0.362825094 | IFT43,TGFB3,TTLL5 |
| 10 | 88,275,000 | 88,425,000 | 1178 | 1184 | -0.435239561 | IFT43 |
| 10 | 88,350,000 | 88,500,000 | 1179 | 1412 | -0.606712501 | IFT43,MGC166084 |
| 10 | 88,425,000 | 88,575,000 | 1180 | 714 | -0.539403108 | MGC166084 |
| 10 | 88,500,000 | 88,650,000 | 1181 | 775 | -0.851180414 | MGC166084 |
| 10 | 88,575,000 | 88,725,000 | 1182 | 839 | -1.23323372 | |
| 10 | 88,650,000 | 88,800,000 | 1183 | 552 | -1.126523048 | ESRRB |
| 10 | 88,725,000 | 88,875,000 | 1184 | 675 | -0.18970848 | ESRRB |
| 10 | 88,800,000 | 88,950,000 | 1185 | 591 | 0.382778538 | ESRRB |
| 10 | 88,875,000 | 89,025,000 | 1186 | 325 | -0.219180213 | |
| 10 | 88,950,000 | 89,100,000 | 1187 | 378 | -0.4582176 | ANGEL1,LRRRC74A,VASH1 |
| 10 | 89,025,000 | 89,175,000 | 1188 | 569 | 0.026102623 | ANGEL1,LRRRC74A,VASH1 |
| 10 | 89,100,000 | 89,250,000 | 1189 | 677 | 0.034379944 | IRF2BPL,LRRRC74A |
| 10 | 89,175,000 | 89,325,000 | 1190 | 404 | -0.114281582 | IRF2BPL |
| 10 | 89,250,000 | 89,400,000 | 1191 | 276 | -0.761550841 | KIAA1737,ZDHHC22 |
| 10 | 89,325,000 | 89,475,000 | 1192 | 601 | 0.307346064 | KIAA1737,ZDHHC22 |
| 10 | 89,400,000 | 89,550,000 | 1193 | 718 | 0.8509396 | NGB,POMT2,TMEM63C,ZDHHC22 |
| 10 | 89,475,000 | 89,625,000 | 1194 | 585 | 1.073115569 | GSTZ1,NGB,POMT2,TMED8,TMEM63C |
| 10 | 89,550,000 | 89,700,000 | 1195 | 474 | 1.219754214 | GSTZ1,NOXRED1,POMT2,SAMD15,TMED8,VIPAS39 |
| 10 | 89,625,000 | 89,775,000 | 1196 | 362 | 0.648181595 | AHSA1,ISM2,NOXRED1,SAMD15,SPTLC2,TMED8,VIPAS39 |
| 10 | 89,700,000 | 89,850,000 | 1197 | 426 | 0.631944258 | AHSA1,ISM2,SPTLC2,VIPAS39 |
| 10 | 89,775,000 | 89,925,000 | 1198 | 753 | -0.035624914 | ALKBH1,SLIRP,SNW1,SPTLC2 |
| 10 | 89,850,000 | 90,000,000 | 1199 | 871 | -0.244506507 | ALKBH1,SLIRP,SNW1,SPTLC2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 10 | 89,925,000 | 90,075,000 | 1200 | 1092 | 0.575367084 | ADCK1,SNW1 |
| 10 | 90,000,000 | 90,150,000 | 1201 | 1227 | 1.061332776 | ADCK1 |
| 10 | 90,075,000 | 90,225,000 | 1202 | 1109 | 0.959867184 | ADCK1 |
| 10 | 90,150,000 | 90,300,000 | 1203 | 1100 | 0.700489853 | |
| 10 | 90,225,000 | 90,375,000 | 1204 | 962 | 0.976976568 | |
| 10 | 90,300,000 | 90,450,000 | 1205 | 726 | 0.092898165 | |
| 10 | 90,375,000 | 90,525,000 | 1206 | 556 | -1.027520483 | |
| 10 | 90,450,000 | 90,600,000 | 1207 | 550 | -0.783063326 | |
| 10 | 90,525,000 | 90,675,000 | 1208 | 882 | -0.005987302 | |
| 10 | 90,600,000 | 90,750,000 | 1209 | 1388 | 0.178417427 | |
| 10 | 90,675,000 | 90,825,000 | 1210 | 1519 | 0.608376964 | |
| 10 | 90,750,000 | 90,900,000 | 1211 | 1280 | 0.828845685 | |
| 10 | 90,825,000 | 90,975,000 | 1212 | 1051 | 0.308846141 | |
| 10 | 90,900,000 | 91,050,000 | 1213 | 925 | 0.332052622 | |
| 10 | 90,975,000 | 91,125,000 | 1214 | 1024 | 0.609457781 | |
| 10 | 91,050,000 | 91,200,000 | 1215 | 1043 | 0.046319692 | |
| 10 | 91,125,000 | 91,275,000 | 1216 | 664 | -1.00039481 | |
| 10 | 91,200,000 | 91,350,000 | 1217 | 948 | 0.192260116 | |
| 10 | 91,275,000 | 91,425,000 | 1218 | 1311 | 0.692880857 | |
| 10 | 91,350,000 | 91,500,000 | 1219 | 1587 | -0.028524686 | |
| 10 | 91,425,000 | 91,575,000 | 1220 | 1845 | 0.471599503 | |
| 10 | 91,500,000 | 91,650,000 | 1221 | 1273 | 1.156602501 | ENSBTAG00000025324 |
| 10 | 91,575,000 | 91,725,000 | 1222 | 1048 | 0.676502341 | ENSBTAG00000025324 |
| 10 | 91,650,000 | 91,800,000 | 1223 | 1056 | 0.831577458 | ENSBTAG00000025324 |
| 10 | 91,725,000 | 91,875,000 | 1224 | 963 | 1.087198739 | ENSBTAG00000025324 |
| 10 | 91,800,000 | 91,950,000 | 1225 | 1130 | 1.046943999 | ENSBTAG00000025324 |
| 10 | 91,875,000 | 92,025,000 | 1226 | 1326 | 0.189410309 | ENSBTAG00000025324 |
| 10 | 91,950,000 | 92,100,000 | 1227 | 946 | -0.471212681 | ENSBTAG00000025324 |
| 10 | 92,025,000 | 92,175,000 | 1228 | 715 | -1.688145173 | ENSBTAG00000025324 |
| 10 | 92,100,000 | 92,250,000 | 1229 | 830 | -1.095686967 | ENSBTAG00000025324 |
| 10 | 92,175,000 | 92,325,000 | 1230 | 606 | 0.963322667 | ENSBTAG00000025324 |
| 10 | 92,250,000 | 92,400,000 | 1231 | 1020 | 0.271698183 | |
| 10 | 92,325,000 | 92,475,000 | 1232 | 1213 | 0.289948266 | |
| 10 | 92,400,000 | 92,550,000 | 1233 | 917 | 0.048090706 | |
| 10 | 92,475,000 | 92,625,000 | 1234 | 825 | -0.119636204 | DIO2 |
| 10 | 92,550,000 | 92,700,000 | 1235 | 823 | 0.272087079 | DIO2 |
| 10 | 92,625,000 | 92,775,000 | 1236 | 642 | 0.282306279 | DIO2 |
| 10 | 92,700,000 | 92,850,000 | 1237 | 498 | 0.507067151 | |
| 10 | 92,775,000 | 92,925,000 | 1238 | 750 | 0.819735471 | ENSBTAG00000040167,ENSBTAG00000047260 |
| 10 | 92,850,000 | 93,000,000 | 1239 | 814 | 0.098212817 | ENSBTAG00000040167,ENSBTAG00000047260 |
| 10 | 92,925,000 | 93,075,000 | 1240 | 605 | -0.487214119 | ENSBTAG00000047260 |
| 10 | 93,000,000 | 93,150,000 | 1241 | 364 | 0.220714479 | |
| 10 | 93,075,000 | 93,225,000 | 1242 | 450 | 0.100701948 | ENSBTAG00000021708 |
| 10 | 93,150,000 | 93,300,000 | 1243 | 512 | -0.588637775 | ENSBTAG00000021708 |
| 10 | 93,225,000 | 93,375,000 | 1244 | 503 | -1.73327682 | ENSBTAG00000021708,ENSBTAG00000047322 |
| 10 | 93,300,000 | 93,450,000 | 1245 | 635 | -1.002892632 | TSHR,ENSBTAG00000021708,ENSBTAG00000047322 |
| 10 | 93,375,000 | 93,525,000 | 1246 | 789 | 0.04140341 | TSHR |
| 10 | 93,450,000 | 93,600,000 | 1247 | 632 | 0.397600492 | TSHR |
| 10 | 93,525,000 | 93,675,000 | 1248 | 334 | -0.476293729 | GTF2A1,TSHR |
| 10 | 93,600,000 | 93,750,000 | 1249 | 456 | -0.254233672 | GTF2A1,STON2 |
| 10 | 93,675,000 | 93,825,000 | 1250 | 890 | 0.059342693 | GTF2A1,STON2 |
| 10 | 93,750,000 | 93,900,000 | 1251 | 969 | -0.717714403 | STON2 |
| 10 | 93,825,000 | 93,975,000 | 1252 | 743 | -1.512951178 | SEL1L |

| | | | | | | |
|----|------------|------------|------|------|--------------|--------------------|
| 10 | 93,900,000 | 94,050,000 | 1253 | 900 | -0.43932075 | SEL1L |
| 10 | 93,975,000 | 94,125,000 | 1254 | 720 | -0.434605329 | |
| 10 | 94,050,000 | 94,200,000 | 1255 | 780 | 0.310142955 | |
| 10 | 94,125,000 | 94,275,000 | 1256 | 1005 | 0.40467499 | |
| 10 | 94,200,000 | 94,350,000 | 1257 | 735 | -0.117110658 | |
| 10 | 94,275,000 | 94,425,000 | 1258 | 919 | 0.703427127 | |
| 10 | 94,350,000 | 94,500,000 | 1259 | 1248 | 1.221528889 | |
| 10 | 94,425,000 | 94,575,000 | 1260 | 1257 | 0.94566096 | |
| 10 | 94,500,000 | 94,650,000 | 1261 | 1396 | 0.013291297 | |
| 10 | 94,575,000 | 94,725,000 | 1262 | 1458 | -0.075785636 | |
| 10 | 94,650,000 | 94,800,000 | 1263 | 1231 | 0.131574452 | |
| 10 | 94,725,000 | 94,875,000 | 1264 | 1060 | 0.241288462 | |
| 10 | 94,800,000 | 94,950,000 | 1265 | 1252 | 0.149738785 | |
| 10 | 94,875,000 | 95,025,000 | 1266 | 1406 | 0.217404046 | |
| 10 | 94,950,000 | 95,100,000 | 1267 | 1546 | -0.263421697 | |
| 10 | 95,025,000 | 95,175,000 | 1268 | 1654 | -0.454989585 | |
| 10 | 95,100,000 | 95,250,000 | 1269 | 1655 | -0.954658486 | |
| 10 | 95,175,000 | 95,325,000 | 1270 | 1419 | -0.728895813 | |
| 10 | 95,250,000 | 95,400,000 | 1271 | 1372 | 0.177648162 | |
| 10 | 95,325,000 | 95,475,000 | 1272 | 1473 | 0.292406215 | ENSBTAG00000018039 |
| 10 | 95,400,000 | 95,550,000 | 1273 | 1263 | 0.900728137 | ENSBTAG00000018039 |
| 10 | 95,475,000 | 95,625,000 | 1274 | 1077 | 0.579117927 | |
| 10 | 95,550,000 | 95,700,000 | 1275 | 888 | 0.684354613 | |
| 10 | 95,625,000 | 95,775,000 | 1276 | 845 | 0.865658578 | |
| 10 | 95,700,000 | 95,850,000 | 1277 | 1040 | -0.936424142 | |
| 10 | 95,775,000 | 95,925,000 | 1278 | 1154 | -1.437259531 | |
| 10 | 95,850,000 | 96,000,000 | 1279 | 795 | -0.644821651 | |
| 10 | 95,925,000 | 96,075,000 | 1280 | 751 | 0.486753894 | |
| 10 | 96,000,000 | 96,150,000 | 1281 | 1045 | -0.223525991 | |
| 10 | 96,075,000 | 96,225,000 | 1282 | 1161 | -0.783643488 | |
| 10 | 96,150,000 | 96,300,000 | 1283 | 1122 | -0.130422376 | |
| 10 | 96,225,000 | 96,375,000 | 1284 | 1009 | 0.551521751 | |
| 10 | 96,300,000 | 96,450,000 | 1285 | 883 | 1.106527604 | |
| 10 | 96,375,000 | 96,525,000 | 1286 | 740 | 0.939312424 | |
| 10 | 96,450,000 | 96,600,000 | 1287 | 1007 | 1.014497039 | |
| 10 | 96,525,000 | 96,675,000 | 1288 | 1133 | 0.965662081 | |
| 10 | 96,600,000 | 96,750,000 | 1289 | 735 | 0.600913313 | |
| 10 | 96,675,000 | 96,825,000 | 1290 | 960 | -2.401549952 | |
| 10 | 96,750,000 | 96,900,000 | 1291 | 1173 | -1.972272294 | |
| 10 | 96,825,000 | 96,975,000 | 1292 | 1471 | 0.699308977 | |
| 10 | 96,900,000 | 97,050,000 | 1293 | 1285 | -0.062953137 | |
| 10 | 96,975,000 | 97,125,000 | 1294 | 1196 | -1.339913594 | |
| 10 | 97,050,000 | 97,200,000 | 1295 | 1460 | -0.0613527 | |
| 10 | 97,125,000 | 97,275,000 | 1296 | 1252 | 0.552491705 | |
| 10 | 97,200,000 | 97,350,000 | 1297 | 1403 | 0.748785444 | |
| 10 | 97,275,000 | 97,425,000 | 1298 | 1338 | 1.032104798 | |
| 10 | 97,350,000 | 97,500,000 | 1299 | 841 | 0.668684344 | |
| 10 | 97,425,000 | 97,575,000 | 1300 | 369 | -0.217422843 | |
| 10 | 97,500,000 | 97,650,000 | 1301 | 558 | 1.187283029 | |
| 10 | 97,575,000 | 97,725,000 | 1302 | 992 | 1.086719594 | |
| 10 | 97,650,000 | 97,800,000 | 1303 | 986 | 0.619501635 | |
| 10 | 97,725,000 | 97,875,000 | 1304 | 983 | 0.567720302 | |
| 10 | 97,800,000 | 97,950,000 | 1305 | 1149 | 0.702501762 | |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--------------------|
| 10 | 97,875,000 | 98,025,000 | 1306 | 1200 | 0.518133702 | |
| 10 | 97,950,000 | 98,100,000 | 1307 | 1085 | -0.466458209 | |
| 10 | 98,025,000 | 98,175,000 | 1308 | 970 | -4.451967708 | |
| 10 | 98,100,000 | 98,250,000 | 1309 | 917 | -4.619546831 | |
| 10 | 98,175,000 | 98,325,000 | 1310 | 1020 | -1.03605257 | |
| 10 | 98,250,000 | 98,400,000 | 1311 | 849 | -0.776851352 | FLRT2 |
| 10 | 98,325,000 | 98,475,000 | 1312 | 736 | -0.424002265 | FLRT2 |
| 10 | 98,400,000 | 98,550,000 | 1313 | 940 | 0.490385795 | |
| 10 | 98,475,000 | 98,625,000 | 1314 | 915 | 0.604831569 | |
| 10 | 98,550,000 | 98,700,000 | 1315 | 1291 | 0.49337806 | |
| 10 | 98,625,000 | 98,775,000 | 1316 | 1514 | 0.516871829 | |
| 10 | 98,700,000 | 98,850,000 | 1317 | 1414 | 0.91904616 | |
| 10 | 98,775,000 | 98,925,000 | 1318 | 1468 | 1.201890365 | |
| 10 | 98,850,000 | 99,000,000 | 1319 | 1316 | 0.863889316 | |
| 10 | 98,925,000 | 99,075,000 | 1320 | 1349 | -0.427985942 | |
| 10 | 99,000,000 | 99,150,000 | 1321 | 1528 | -0.19016014 | |
| 10 | 99,075,000 | 99,225,000 | 1322 | 1614 | 0.342115222 | |
| 10 | 99,150,000 | 99,300,000 | 1323 | 1388 | -0.136286069 | |
| 10 | 99,225,000 | 99,375,000 | 1324 | 982 | -0.815052302 | |
| 10 | 99,300,000 | 99,450,000 | 1325 | 815 | -0.35896116 | |
| 10 | 99,375,000 | 99,525,000 | 1326 | 775 | -0.181180175 | |
| 10 | 99,450,000 | 99,600,000 | 1327 | 1018 | 0.20766523 | |
| 10 | 99,525,000 | 99,675,000 | 1328 | 1197 | 0.659735281 | |
| 10 | 99,600,000 | 99,750,000 | 1329 | 1039 | 0.94958534 | |
| 10 | 99,675,000 | 99,825,000 | 1330 | 969 | 0.855913938 | |
| 10 | 99,750,000 | 99,900,000 | 1331 | 931 | 1.019257651 | |
| 10 | 99,825,000 | 99,975,000 | 1332 | 856 | 0.556272635 | |
| 10 | 99,900,000 | 100,050,000 | 1333 | 1163 | 0.333841651 | |
| 10 | 99,975,000 | 100,125,000 | 1334 | 1138 | 0.601381366 | |
| 10 | 100,050,000 | 100,200,000 | 1335 | 1198 | 0.491321755 | |
| 10 | 100,125,000 | 100,275,000 | 1336 | 1224 | 0.404212275 | |
| 10 | 100,200,000 | 100,350,000 | 1337 | 997 | -1.263288917 | |
| 10 | 100,275,000 | 100,425,000 | 1338 | 987 | -1.485283107 | |
| 10 | 100,350,000 | 100,500,000 | 1339 | 728 | -0.349271827 | |
| 10 | 100,425,000 | 100,575,000 | 1340 | 706 | -0.763365557 | |
| 10 | 100,500,000 | 100,650,000 | 1341 | 1141 | 0.422310455 | |
| 10 | 100,575,000 | 100,725,000 | 1342 | 1272 | -0.592768042 | |
| 10 | 100,650,000 | 100,800,000 | 1343 | 1035 | -2.545382384 | GALC |
| 10 | 100,725,000 | 100,875,000 | 1344 | 1382 | 0.1476855 | GALC,GPR65 |
| 10 | 100,800,000 | 100,950,000 | 1345 | 1430 | 0.700609975 | GPR65 |
| 10 | 100,875,000 | 101,025,000 | 1346 | 1206 | 0.412350229 | KCNK10 |
| 10 | 100,950,000 | 101,100,000 | 1347 | 1400 | -0.451420181 | KCNK10 |
| 10 | 101,025,000 | 101,175,000 | 1348 | 1230 | -0.526644465 | KCNK10 |
| 10 | 101,100,000 | 101,250,000 | 1349 | 793 | -0.029440658 | PTPN21,SPATA7 |
| 10 | 101,175,000 | 101,325,000 | 1350 | 862 | -0.577089809 | PTPN21,SPATA7 |
| 10 | 101,250,000 | 101,400,000 | 1351 | 814 | 0.061587182 | EML5,PTPN21,ZC3H14 |
| 10 | 101,325,000 | 101,475,000 | 1352 | 382 | 0.381010354 | EML5,ZC3H14 |
| 10 | 101,400,000 | 101,550,000 | 1353 | 369 | -0.623586884 | EML5 |
| 10 | 101,475,000 | 101,625,000 | 1354 | 442 | 0.078159058 | EML5,TTC8 |
| 10 | 101,550,000 | 101,700,000 | 1355 | 907 | 0.327129107 | TTC8 |
| 10 | 101,625,000 | 101,775,000 | 1356 | 907 | 0.170899212 | TTC8 |
| 10 | 101,700,000 | 101,850,000 | 1357 | 855 | 0.97257369 | |
| 10 | 101,775,000 | 101,925,000 | 1358 | 1047 | 0.623990911 | |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|---------------------------|
| 10 | 101,850,000 | 102,000,000 | 1359 | 997 | 0.10326492 | |
| 10 | 101,925,000 | 102,075,000 | 1360 | 1379 | 0.23782591 | FOXN3 |
| 10 | 102,000,000 | 102,150,000 | 1361 | 1128 | -0.321252478 | FOXN3 |
| 10 | 102,075,000 | 102,225,000 | 1362 | 794 | -0.252879278 | FOXN3 |
| 10 | 102,150,000 | 102,300,000 | 1363 | 927 | 0.503730008 | FOXN3 |
| 10 | 102,225,000 | 102,375,000 | 1364 | 898 | 0.544655968 | FOXN3 |
| 10 | 102,300,000 | 102,450,000 | 1365 | 939 | 0.441856243 | FOXN3 |
| 10 | 102,375,000 | 102,525,000 | 1366 | 1273 | 0.6768009 | |
| 10 | 102,450,000 | 102,600,000 | 1367 | 1333 | 0.403869763 | |
| 10 | 102,525,000 | 102,675,000 | 1368 | 1004 | 0.011603601 | EFCAB11 |
| 10 | 102,600,000 | 102,750,000 | 1369 | 820 | -1.099005145 | EFCAB11,TDP1 |
| 10 | 102,675,000 | 102,825,000 | 1370 | 1062 | -0.676023439 | EFCAB11,TDP1 |
| 10 | 102,750,000 | 102,900,000 | 1371 | 1567 | 0.563182037 | KCNK13,TDP1 |
| 10 | 102,825,000 | 102,975,000 | 1372 | 1838 | 0.707593243 | KCNK13,NRDE2,PSMC1 |
| 10 | 102,900,000 | 103,050,000 | 1373 | 1583 | 0.475778324 | NRDE2,PSMC1 |
| 10 | 102,975,000 | 103,125,000 | 1374 | 1059 | 0.441479733 | CALM |
| 10 | 103,050,000 | 103,200,000 | 1375 | 1034 | 1.080057608 | CALM,TTC7B |
| 10 | 103,125,000 | 103,275,000 | 1376 | 1124 | 0.94085453 | TTC7B |
| 10 | 103,200,000 | 103,350,000 | 1377 | 1284 | 0.352378887 | TTC7B |
| 10 | 103,275,000 | 103,425,000 | 1378 | 1464 | 0.110462074 | TTC7B |
| 10 | 103,350,000 | 103,500,000 | 1379 | 1291 | 0.322014449 | TTC7B |
| 10 | 103,425,000 | 103,575,000 | 1380 | 1133 | 0.728018573 | RPS6KA5 |
| 10 | 103,500,000 | 103,650,000 | 1381 | 1175 | 0.770293845 | RPS6KA5 |
| 10 | 103,575,000 | 103,725,000 | 1382 | 1171 | 0.325189214 | RPS6KA5 |
| 10 | 103,650,000 | 103,800,000 | 1383 | 1237 | 0.259241605 | RPS6KA5 |
| 10 | 103,725,000 | 103,875,000 | 1384 | 1154 | 0.648956294 | CASC4 |
| 10 | 103,800,000 | 103,950,000 | 1385 | 801 | 0.821243509 | CASC4,CTDSPL2 |
| 10 | 103,875,000 | 104,025,000 | 1386 | 589 | 0.256090083 | CASC4,CTDSPL2,EIF3J,SPG11 |
| 10 | 103,950,000 | 104,100,000 | 1387 | 626 | -2.23648217 | CTDSPL2,EIF3J,PATL2,SPG11 |
| 10 | 104,025,000 | 104,175,000 | 1388 | 664 | -3.227860635 | B2M,PATL2,SPG11 |
| 10 | 104,100,000 | 104,250,000 | 1389 | 472 | -2.284594872 | B2M,C10H15orf43,TRIM69 |
| 10 | 104,175,000 | 104,305,016 | 1390 | 367 | 0.090669647 | C10H15orf43,TRIM69 |
| 11 | 0 | 150,000 | 1 | 854 | -0.21025685 | ZC3H6,ENSBTAG00000038257 |
| 11 | 75,000 | 225,000 | 2 | 1419 | -1.284668905 | FBLN7,ZC3H6,ZC3H8 |
| 11 | 150,000 | 300,000 | 3 | 1605 | -0.556056263 | FBLN7,TMEM87B,ZC3H8 |
| 11 | 225,000 | 375,000 | 4 | 1582 | 0.696232937 | FBLN7,MERTK,TMEM87B |
| 11 | 300,000 | 450,000 | 5 | 1622 | 0.337788207 | MERTK,TMEM87B |
| 11 | 375,000 | 525,000 | 6 | 1507 | 0.429346244 | ANAPC1,MERTK |
| 11 | 450,000 | 600,000 | 7 | 1477 | 0.868248603 | ANAPC1,ENSBTAG00000023163 |
| 11 | 525,000 | 675,000 | 8 | 1428 | 0.262409829 | ANAPC1,ENSBTAG00000023163 |
| 11 | 600,000 | 750,000 | 9 | 1572 | 0.091650817 | |
| 11 | 675,000 | 825,000 | 10 | 1668 | -0.107925552 | |
| 11 | 750,000 | 900,000 | 11 | 1357 | -0.417607532 | |
| 11 | 825,000 | 975,000 | 12 | 1255 | 0.311619549 | |
| 11 | 900,000 | 1,050,000 | 13 | 1454 | 0.286292106 | |
| 11 | 975,000 | 1,125,000 | 14 | 1471 | 0.215668177 | |
| 11 | 1,050,000 | 1,200,000 | 15 | 1420 | 0.452521415 | BCL2L11 |
| 11 | 1,125,000 | 1,275,000 | 16 | 1376 | 0.019182984 | ACOXL,BCL2L11 |
| 11 | 1,200,000 | 1,350,000 | 17 | 1233 | -0.759281585 | ACOXL |
| 11 | 1,275,000 | 1,425,000 | 18 | 1161 | -0.485227293 | ACOXL |
| 11 | 1,350,000 | 1,500,000 | 19 | 1208 | 0.440707842 | ACOXL |
| 11 | 1,425,000 | 1,575,000 | 20 | 1285 | -0.137843258 | ACOXL,BUB1 |
| 11 | 1,500,000 | 1,650,000 | 21 | 1264 | -0.651329284 | ACOXL,BUB1,TPC3 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 11 | 1,575,000 | 1,725,000 | 22 | 1386 | -0.06908994 | BUB1,LINC00116,NPHP1,TPC3 |
| 11 | 1,650,000 | 1,800,000 | 23 | 1375 | 0.44679366 | LINC00116,MALL,NPHP1 |
| 11 | 1,725,000 | 1,875,000 | 24 | 1057 | 0.181048963 | MALL,NPHP1,ENSBTAG00000034586 |
| 11 | 1,800,000 | 1,950,000 | 25 | 1226 | 0.31428695 | MRPS5,ZNF514,ENSBTAG00000034586,ENSBTAG0000034657 |
| 11 | 1,875,000 | 2,025,000 | 26 | 1332 | 0.383255219 | MRPS5,PROM2,ZNF2,ZNF514,ENSBTAG00000034657,ENSBTAG00000047503 |
| 11 | 1,950,000 | 2,100,000 | 27 | 1214 | 0.605223058 | PROM2,ZNF2,ENSBTAG00000017955,ENSBTAG00000047503 |
| 11 | 2,025,000 | 2,175,000 | 28 | 1172 | 0.336699194 | GPAT2,ENSBTAG00000011553,ENSBTAG00000017955 |
| 11 | 2,100,000 | 2,250,000 | 29 | 956 | -0.352749607 | ADRA2B,ASTL,GPAT2,ENSBTAG00000011553 |
| 11 | 2,175,000 | 2,325,000 | 30 | 876 | 0.434751334 | ADRA2B,ASTL,DUSP2,STARD7,TMEM127 |
| 11 | 2,250,000 | 2,400,000 | 31 | 1291 | 1.065647687 | CIAO1,DUSP2,ITPRIPL1,SNRNP200,STARD7,TMEM127 |
| 11 | 2,325,000 | 2,475,000 | 32 | 1833 | 0.800743588 | CIAO1,ITPRIPL1,NCAPH,SNRNP200,TMEM127 |
| 11 | 2,400,000 | 2,550,000 | 33 | 1294 | 0.420631311 | ARID5A,NCAPH,NEURL3 |
| 11 | 2,475,000 | 2,625,000 | 34 | 706 | -0.329066154 | ARID5A,FER1L5,KANSL3,NEURL3 |
| 11 | 2,550,000 | 2,700,000 | 35 | 1059 | 0.268508656 | CNNM4,FER1L5,KANSL3,LMAN2L |
| 11 | 2,625,000 | 2,775,000 | 36 | 1400 | 0.538282475 | ANKRD23,CNNM3,CNNM4,FER1L5,LMAN2L |
| 11 | 2,700,000 | 2,850,000 | 37 | 1536 | 0.037773617 | ANKRD23,ANKRD39,CNNM3,CNNM4,FAM178B,SEMA4C |
| 11 | 2,775,000 | 2,925,000 | 38 | 1530 | -0.08524278 | ANKRD39,COX5B,FAM178B,SEMA4C |
| 11 | 2,850,000 | 3,000,000 | 39 | 1857 | 0.650487528 | ACTR1B,COX5B,FAM178B |
| 11 | 2,925,000 | 3,075,000 | 40 | 1929 | 0.755445704 | ACTR1B,ZAP70 |
| 11 | 3,000,000 | 3,150,000 | 41 | 1212 | 0.575852248 | TMEM131,ZAP70 |
| 11 | 3,075,000 | 3,225,000 | 42 | 751 | 0.53992124 | TMEM131 |
| 11 | 3,150,000 | 3,300,000 | 43 | 842 | 0.274599378 | TMEM131 |
| 11 | 3,225,000 | 3,375,000 | 44 | 1276 | 0.263262684 | VWA3B |
| 11 | 3,300,000 | 3,450,000 | 45 | 1191 | 0.267105314 | VWA3B |
| 11 | 3,375,000 | 3,525,000 | 46 | 1365 | -1.035645549 | VWA3B |
| 11 | 3,450,000 | 3,600,000 | 47 | 1795 | -0.696476919 | CNGA3,VWA3B |
| 11 | 3,525,000 | 3,675,000 | 48 | 1550 | 0.237207658 | CNGA3,VWA3B |
| 11 | 3,600,000 | 3,750,000 | 49 | 1358 | 0.681223326 | INPP4A |
| 11 | 3,675,000 | 3,825,000 | 50 | 1401 | 0.479286769 | COA5,INPP4A,MGAT4A,UNC50 |
| 11 | 3,750,000 | 3,900,000 | 51 | 1243 | 0.352959714 | COA5,MGAT4A,UNC50 |
| 11 | 3,825,000 | 3,975,000 | 52 | 838 | -0.099882769 | MGAT4A |
| 11 | 3,900,000 | 4,050,000 | 53 | 601 | -0.328926469 | MGAT4A |
| 11 | 3,975,000 | 4,125,000 | 54 | 656 | 0.382644934 | |
| 11 | 4,050,000 | 4,200,000 | 55 | 659 | 0.388665626 | TSGA10 |
| 11 | 4,125,000 | 4,275,000 | 56 | 464 | -0.261312676 | C2orf15,TSGA10 |
| 11 | 4,200,000 | 4,350,000 | 57 | 676 | -3.203818214 | C2orf15,LIPT1,LYG2,MITD1,MRPL30,TSGA10 |
| 11 | 4,275,000 | 4,425,000 | 58 | 1368 | -1.148105682 | LIPT1,LYG2,MITD1,MRPL30,TXNDC9 |
| 11 | 4,350,000 | 4,500,000 | 59 | 1350 | 0.125685974 | EIF5B,TXNDC9 |
| 11 | 4,425,000 | 4,575,000 | 60 | 912 | -0.110328399 | EIF5B,REV1 |
| 11 | 4,500,000 | 4,650,000 | 61 | 917 | 0.017590109 | AFF3,EIF5B,REV1 |
| 11 | 4,575,000 | 4,725,000 | 62 | 1284 | -0.301334208 | AFF3,REV1 |
| 11 | 4,650,000 | 4,800,000 | 63 | 2128 | 0.297224041 | AFF3 |
| 11 | 4,725,000 | 4,875,000 | 64 | 2145 | 0.928351183 | |
| 11 | 4,800,000 | 4,950,000 | 65 | 1526 | 0.044265966 | |
| 11 | 4,875,000 | 5,025,000 | 66 | 1162 | -0.483354498 | |
| 11 | 4,950,000 | 5,100,000 | 67 | 1296 | 0.696921456 | |
| 11 | 5,025,000 | 5,175,000 | 68 | 1384 | 0.297505034 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|------------------------------|
| 11 | 5,100,000 | 5,250,000 | 69 | 1470 | 0.02027124 | |
| 11 | 5,175,000 | 5,325,000 | 70 | 1711 | 0.104071133 | |
| 11 | 5,250,000 | 5,400,000 | 71 | 1639 | 0.160494897 | |
| 11 | 5,325,000 | 5,475,000 | 72 | 1718 | 0.342644933 | CHST10,LONRF2 |
| 11 | 5,400,000 | 5,550,000 | 73 | 1781 | 0.615656084 | CHST10,LONRF2,NMS |
| 11 | 5,475,000 | 5,625,000 | 74 | 1596 | 0.64309232 | CHST10,NMS,PDCL3 |
| 11 | 5,550,000 | 5,700,000 | 75 | 1509 | -0.246345491 | PDCL3 |
| 11 | 5,625,000 | 5,775,000 | 76 | 1417 | 0.173530022 | PTPN13 |
| 11 | 5,700,000 | 5,850,000 | 77 | 1098 | 0.284510427 | PTPN13,SLC10A6 |
| 11 | 5,775,000 | 5,925,000 | 78 | 973 | -0.695993267 | NPAS2,PTPN13,SLC10A6 |
| 11 | 5,850,000 | 6,000,000 | 79 | 1293 | -0.16226516 | NPAS2 |
| 11 | 5,925,000 | 6,075,000 | 80 | 1406 | 0.435108549 | NPAS2,RPL31,TBC1D8 |
| 11 | 6,000,000 | 6,150,000 | 81 | 1283 | 0.335452862 | NPAS2,RPL31,TBC1D8 |
| 11 | 6,075,000 | 6,225,000 | 82 | 1271 | -0.456393598 | CNOT11,RNF149 |
| 11 | 6,150,000 | 6,300,000 | 83 | 1368 | -1.571023593 | CNOT11,CREG2,RNF149 |
| 11 | 6,225,000 | 6,375,000 | 84 | 1565 | -1.281240522 | CREG2,RFX8,RNF149 |
| 11 | 6,300,000 | 6,450,000 | 85 | 1446 | -0.677879754 | RFX8 |
| 11 | 6,375,000 | 6,525,000 | 86 | 1209 | -0.464439506 | |
| 11 | 6,450,000 | 6,600,000 | 87 | 1318 | 0.081495162 | |
| 11 | 6,525,000 | 6,675,000 | 88 | 1524 | 0.164819941 | MAP4K4 |
| 11 | 6,600,000 | 6,750,000 | 89 | 1546 | -0.367782249 | IL1R2,MAP4K4 |
| 11 | 6,675,000 | 6,825,000 | 90 | 1456 | 0.065988196 | IL1R2 |
| 11 | 6,750,000 | 6,900,000 | 91 | 1382 | 0.940144737 | IL1R1,IL1R2 |
| 11 | 6,825,000 | 6,975,000 | 92 | 1296 | 0.103305239 | IL1R1 |
| 11 | 6,900,000 | 7,050,000 | 93 | 1382 | 0.06602965 | IL1R1,IL1RL2 |
| 11 | 6,975,000 | 7,125,000 | 94 | 1755 | 0.916177583 | IL1RL1,IL1RL2 |
| 11 | 7,050,000 | 7,200,000 | 95 | 1433 | 1.132191808 | IL18R1,IL18RAP,IL1RL1 |
| 11 | 7,125,000 | 7,275,000 | 96 | 978 | 0.059327522 | IL18R1,IL18RAP,IL1RL1,SLC9A4 |
| 11 | 7,200,000 | 7,350,000 | 97 | 1021 | -0.930969823 | IL18RAP,SLC9A2,SLC9A4 |
| 11 | 7,275,000 | 7,425,000 | 98 | 1582 | 0.346953682 | MFSD9,SLC9A2,SLC9A4 |
| 11 | 7,350,000 | 7,500,000 | 99 | 2048 | 0.789976239 | MFSD9,SLC9A2,TMEM182 |
| 11 | 7,425,000 | 7,575,000 | 100 | 1827 | 0.260408274 | MFSD9,TMEM182 |
| 11 | 7,500,000 | 7,650,000 | 101 | 1394 | -0.240940158 | |
| 11 | 7,575,000 | 7,725,000 | 102 | 885 | -0.550723946 | |
| 11 | 7,650,000 | 7,800,000 | 103 | 744 | -0.138251678 | |
| 11 | 7,725,000 | 7,875,000 | 104 | 671 | -0.177065174 | |
| 11 | 7,800,000 | 7,950,000 | 105 | 574 | -0.630449374 | |
| 11 | 7,875,000 | 8,025,000 | 106 | 662 | 0.397027726 | |
| 11 | 7,950,000 | 8,100,000 | 107 | 604 | 0.717909523 | |
| 11 | 8,025,000 | 8,175,000 | 108 | 510 | 0.321974427 | |
| 11 | 8,100,000 | 8,250,000 | 109 | 663 | 0.031758389 | |
| 11 | 8,175,000 | 8,325,000 | 110 | 544 | -0.047718283 | |
| 11 | 8,250,000 | 8,400,000 | 111 | 411 | 0.407228007 | |
| 11 | 8,325,000 | 8,475,000 | 112 | 575 | -0.413985316 | |
| 11 | 8,400,000 | 8,550,000 | 113 | 474 | -1.257932132 | |
| 11 | 8,475,000 | 8,625,000 | 114 | 639 | 0.83765765 | |
| 11 | 8,550,000 | 8,700,000 | 115 | 707 | 1.237151559 | |
| 11 | 8,625,000 | 8,775,000 | 116 | 741 | -0.32407266 | |
| 11 | 8,700,000 | 8,850,000 | 117 | 698 | -1.466718286 | |
| 11 | 8,775,000 | 8,925,000 | 118 | 347 | -1.58750605 | |
| 11 | 8,850,000 | 9,000,000 | 119 | 311 | -0.900717205 | |
| 11 | 8,925,000 | 9,075,000 | 120 | 390 | 0.092204657 | |
| 11 | 9,000,000 | 9,150,000 | 121 | 876 | 0.153715179 | MRPS9 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 9,075,000 | 9,225,000 | 122 | 1267 | -0.698085464 | GPR45,MRPS9,TGFBRAP1 |
| 11 | 9,150,000 | 9,300,000 | 123 | 1011 | -1.19054434 | C2orf49,FHL2,GPR45,MRPS9,TGFBRAP1 |
| 11 | 9,225,000 | 9,375,000 | 124 | 953 | -0.872188978 | C2orf49,FHL2,TGFBRAP1 |
| 11 | 9,300,000 | 9,450,000 | 125 | 1129 | -2.02466099 | FHL2 |
| 11 | 9,375,000 | 9,525,000 | 126 | 994 | -2.489933001 | NK1R |
| 11 | 9,450,000 | 9,600,000 | 127 | 714 | -0.766150962 | NK1R |
| 11 | 9,525,000 | 9,675,000 | 128 | 697 | 0.720962548 | NK1R |
| 11 | 9,600,000 | 9,750,000 | 129 | 956 | -0.277306175 | HK2,NK1R,POLE4 |
| 11 | 9,675,000 | 9,825,000 | 130 | 1103 | -0.4241138 | HK2,POLE4 |
| 11 | 9,750,000 | 9,900,000 | 131 | 902 | -0.267186348 | HK2 |
| 11 | 9,825,000 | 9,975,000 | 132 | 594 | -1.029314989 | M1AP,SEMA4F |
| 11 | 9,900,000 | 10,050,000 | 133 | 348 | -0.658264046 | M1AP,SEMA4F |
| 11 | 9,975,000 | 10,125,000 | 134 | 216 | -0.664246683 | AUP1,DOK1,DQX1,HTRA2,LBX2,LOXL3,M1AP,PCGF1,TLX2 |
| 11 | 10,050,000 | 10,200,000 | 135 | 225 | -0.136807484 | AUP1,C11H2orf81,CCDC142,DOK1,DQX1,HTRA2,INO80B,LBX2,LOXL3,M1AP,MGC152281,MOGS,MRPL53,PCGF1,RTKN,TLX2,WBP1,WDR54 |
| 11 | 10,125,000 | 10,275,000 | 136 | 356 | 0.786752182 | C11H2orf81,CCDC142,DCTN1,INO80B,MGC152281,MOGS,MRPL53,RTKN,WBP1,WDR54 |
| 11 | 10,200,000 | 10,350,000 | 137 | 847 | 0.854083569 | DCTN1,MGC152281,SLC4A5 |
| 11 | 10,275,000 | 10,425,000 | 138 | 910 | 0.875273127 | MTHFD2,SLC4A5 |
| 11 | 10,350,000 | 10,500,000 | 139 | 508 | 0.630202036 | BOLA3,MOBKL1B,MTHFD2,SLC4A5 |
| 11 | 10,425,000 | 10,575,000 | 140 | 631 | 0.765123077 | BOLA3,MOBKL1B,MTHFD2,TET3 |
| 11 | 10,500,000 | 10,650,000 | 141 | 795 | 0.856145041 | TET3 |
| 11 | 10,575,000 | 10,725,000 | 142 | 869 | 0.745152752 | ACTB,DGUOK,TET3 |
| 11 | 10,650,000 | 10,800,000 | 143 | 1195 | 0.704620362 | ACTB,DGUOK,STAMBP |
| 11 | 10,725,000 | 10,875,000 | 144 | 1312 | 0.309115187 | ACTB,C2orf78,DUSP11,STAMBP,TPRKB |
| 11 | 10,800,000 | 10,950,000 | 145 | 1648 | -0.033198119 | ALMS1,C2orf78,DUSP11,TPRKB,ENSBTAG00000047969 |
| 11 | 10,875,000 | 11,025,000 | 146 | 1658 | 0.504940267 | ALMS1,ENSBTAG00000047969 |
| 11 | 10,950,000 | 11,100,000 | 147 | 1763 | 1.307154289 | ALMS1 |
| 11 | 11,025,000 | 11,175,000 | 148 | 1647 | 1.298357323 | ALMS1,EGR4,FBXO41 |
| 11 | 11,100,000 | 11,250,000 | 149 | 1116 | 0.286522027 | C11H2ORF7,CCT7,EGR4,FBXO41,NOTO,SMYD5 |
| 11 | 11,175,000 | 11,325,000 | 150 | 1008 | -0.832161394 | C11H2ORF7,CCT7,FBXO41,NOTO,RAB11FIP5,SMYD5 |
| 11 | 11,250,000 | 11,400,000 | 151 | 1023 | -0.888459497 | RAB11FIP5,SFXN5 |
| 11 | 11,325,000 | 11,475,000 | 152 | 1247 | -0.208579702 | RAB11FIP5,SFXN5 |
| 11 | 11,400,000 | 11,550,000 | 153 | 1054 | 0.391896528 | EMX1,SFXN5,SPR |
| 11 | 11,475,000 | 11,625,000 | 154 | 800 | 0.767752204 | EMX1,EXOC6B,SFXN5,SPR |
| 11 | 11,550,000 | 11,700,000 | 155 | 662 | 0.017488068 | EXOC6B |
| 11 | 11,625,000 | 11,775,000 | 156 | 664 | -0.098240567 | EXOC6B |
| 11 | 11,700,000 | 11,850,000 | 157 | 772 | 0.349036549 | EXOC6B |
| 11 | 11,775,000 | 11,925,000 | 158 | 854 | 0.309001506 | EXOC6B,ENSBTAG00000039263 |
| 11 | 11,850,000 | 12,000,000 | 159 | 737 | -0.111638797 | EXOC6B,ENSBTAG00000039263 |
| 11 | 11,925,000 | 12,075,000 | 160 | 745 | -0.691674452 | EXOC6B |
| 11 | 12,000,000 | 12,150,000 | 161 | 875 | -1.327364331 | EXOC6B |
| 11 | 12,075,000 | 12,225,000 | 162 | 884 | -1.911849735 | EXOC6B |
| 11 | 12,150,000 | 12,300,000 | 163 | 853 | -1.370472707 | EXOC6B |
| 11 | 12,225,000 | 12,375,000 | 164 | 893 | 0.007850552 | CYP26B1,EXOC6B |
| 11 | 12,300,000 | 12,450,000 | 165 | 973 | 0.00382275 | CYP26B1,EXOC6B |
| 11 | 12,375,000 | 12,525,000 | 166 | 823 | 0.345302045 | CYP26B1 |
| 11 | 12,450,000 | 12,600,000 | 167 | 717 | 0.699379322 | |
| 11 | 12,525,000 | 12,675,000 | 168 | 564 | 0.707692311 | |
| 11 | 12,600,000 | 12,750,000 | 169 | 510 | 1.05380262 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 12,675,000 | 12,825,000 | 170 | 459 | 1.064691504 | |
| 11 | 12,750,000 | 12,900,000 | 171 | 431 | 0.421797062 | DYSF |
| 11 | 12,825,000 | 12,975,000 | 172 | 453 | 0.236725565 | DYSF |
| 11 | 12,900,000 | 13,050,000 | 173 | 475 | -0.060063162 | DYSF |
| 11 | 12,975,000 | 13,125,000 | 174 | 672 | -0.881839893 | DYSF |
| 11 | 13,050,000 | 13,200,000 | 175 | 539 | -2.334402063 | DYSF,ZNF638 |
| 11 | 13,125,000 | 13,275,000 | 176 | 329 | -4.426715751 | ZNF638 |
| 11 | 13,200,000 | 13,350,000 | 177 | 391 | -1.971415112 | ZNF638 |
| 11 | 13,275,000 | 13,425,000 | 178 | 561 | 0.398471503 | NAGK,PAIP2B |
| 11 | 13,350,000 | 13,500,000 | 179 | 779 | 0.825042592 | ANKRD53,ATP6V1B1,NAGK,PAIP2B,TEX261,VAX2 |
| 11 | 13,425,000 | 13,575,000 | 180 | 842 | 0.900294458 | ANKRD53,ATP6V1B1,CD207,TEX261,VAX2 |
| 11 | 13,500,000 | 13,650,000 | 181 | 972 | -0.581878196 | CD207,CLEC4F,FIGLA,VAX2 |
| 11 | 13,575,000 | 13,725,000 | 182 | 892 | -0.85951426 | ADD2,CD207,CLEC4F,FIGLA |
| 11 | 13,650,000 | 13,800,000 | 183 | 779 | 0.038998376 | ADD2 |
| 11 | 13,725,000 | 13,875,000 | 184 | 821 | 0.030873513 | ADD2 |
| 11 | 13,800,000 | 13,950,000 | 185 | 438 | 0.329480052 | |
| 11 | 13,875,000 | 14,025,000 | 186 | 360 | -0.200756066 | TGFA |
| 11 | 13,950,000 | 14,100,000 | 187 | 878 | 0.55034748 | TGFA |
| 11 | 14,025,000 | 14,175,000 | 188 | 1075 | 0.57768329 | FAM136A |
| 11 | 14,100,000 | 14,250,000 | 189 | 903 | 0.532137549 | FAM136A,XDH |
| 11 | 14,175,000 | 14,325,000 | 190 | 767 | 0.399515331 | XDH |
| 11 | 14,250,000 | 14,400,000 | 191 | 862 | 0.296107639 | SRD5A2,XDH |
| 11 | 14,325,000 | 14,475,000 | 192 | 874 | 0.743958281 | SRD5A2 |
| 11 | 14,400,000 | 14,550,000 | 193 | 747 | 1.054413854 | |
| 11 | 14,475,000 | 14,625,000 | 194 | 805 | 1.127658174 | MEMO1,RPL36A-HNRNPH2 |
| 11 | 14,550,000 | 14,700,000 | 195 | 609 | 1.221047139 | DPY30,MEMO1,RPL36A-HNRNPH2 |
| 11 | 14,625,000 | 14,775,000 | 196 | 558 | 1.030850022 | DPY30,MEMO1,SPAST |
| 11 | 14,700,000 | 14,850,000 | 197 | 898 | 1.282226197 | NLRC4,SLC30A6,SPAST |
| 11 | 14,775,000 | 14,925,000 | 198 | 1156 | 1.315872592 | NLRC4,SLC30A6,YIPF4 |
| 11 | 14,850,000 | 15,000,000 | 199 | 1114 | 1.224298657 | BIRC6,NLRC4,YIPF4 |
| 11 | 14,925,000 | 15,075,000 | 200 | 912 | 1.046506422 | BIRC6,YIPF4 |
| 11 | 15,000,000 | 15,150,000 | 201 | 560 | 0.490244971 | BIRC6 |
| 11 | 15,075,000 | 15,225,000 | 202 | 435 | -0.236416104 | BIRC6,TTC27 |
| 11 | 15,150,000 | 15,300,000 | 203 | 531 | -0.04166723 | BIRC6,TTC27 |
| 11 | 15,225,000 | 15,375,000 | 204 | 547 | 0.205415684 | TTC27 |
| 11 | 15,300,000 | 15,450,000 | 205 | 584 | -0.75204534 | TTC27 |
| 11 | 15,375,000 | 15,525,000 | 206 | 515 | -0.42426737 | LTBP1,TTC27 |
| 11 | 15,450,000 | 15,600,000 | 207 | 424 | 0.927247672 | LTBP1 |
| 11 | 15,525,000 | 15,675,000 | 208 | 538 | 0.649930341 | LTBP1 |
| 11 | 15,600,000 | 15,750,000 | 209 | 614 | 0.069556765 | LTBP1 |
| 11 | 15,675,000 | 15,825,000 | 210 | 449 | -0.177092051 | LTBP1 |
| 11 | 15,750,000 | 15,900,000 | 211 | 518 | -1.488414937 | LTBP1 |
| 11 | 15,825,000 | 15,975,000 | 212 | 765 | -0.705778589 | LTBP1 |
| 11 | 15,900,000 | 16,050,000 | 213 | 765 | 0.179375354 | LTBP1 |
| 11 | 15,975,000 | 16,125,000 | 214 | 674 | 0.565469314 | RASGRP3 |
| 11 | 16,050,000 | 16,200,000 | 215 | 673 | 0.691834858 | FAM98A,RASGRP3 |
| 11 | 16,125,000 | 16,275,000 | 216 | 538 | 0.280419359 | FAM98A,RASGRP3 |
| 11 | 16,200,000 | 16,350,000 | 217 | 541 | 0.242555953 | |
| 11 | 16,275,000 | 16,425,000 | 218 | 823 | -0.505309945 | |
| 11 | 16,350,000 | 16,500,000 | 219 | 987 | 1.062482764 | |
| 11 | 16,425,000 | 16,575,000 | 220 | 923 | 1.435612659 | |
| 11 | 16,500,000 | 16,650,000 | 221 | 620 | 0.82437961 | |
| 11 | 16,575,000 | 16,725,000 | 222 | 537 | 0.216066432 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 16,650,000 | 16,800,000 | 223 | 925 | 0.58922957 | |
| 11 | 16,725,000 | 16,875,000 | 224 | 1105 | 0.33174681 | |
| 11 | 16,800,000 | 16,950,000 | 225 | 1330 | 0.203340478 | |
| 11 | 16,875,000 | 17,025,000 | 226 | 1473 | 0.350185798 | |
| 11 | 16,950,000 | 17,100,000 | 227 | 1503 | 0.035171683 | |
| 11 | 17,025,000 | 17,175,000 | 228 | 1462 | 0.317857707 | |
| 11 | 17,100,000 | 17,250,000 | 229 | 1034 | 0.910734147 | |
| 11 | 17,175,000 | 17,325,000 | 230 | 783 | 0.907610945 | |
| 11 | 17,250,000 | 17,400,000 | 231 | 1009 | 0.997435113 | |
| 11 | 17,325,000 | 17,475,000 | 232 | 931 | 1.042492842 | |
| 11 | 17,400,000 | 17,550,000 | 233 | 576 | 1.168370389 | |
| 11 | 17,475,000 | 17,625,000 | 234 | 687 | 0.511391121 | |
| 11 | 17,550,000 | 17,700,000 | 235 | 999 | -0.903378871 | |
| 11 | 17,625,000 | 17,775,000 | 236 | 1000 | -1.701814494 | |
| 11 | 17,700,000 | 17,850,000 | 237 | 1078 | -0.948747273 | |
| 11 | 17,775,000 | 17,925,000 | 238 | 1215 | -0.436243931 | |
| 11 | 17,850,000 | 18,000,000 | 239 | 1007 | 0.157613124 | |
| 11 | 17,925,000 | 18,075,000 | 240 | 820 | 0.480328421 | |
| 11 | 18,000,000 | 18,150,000 | 241 | 604 | 0.302087473 | |
| 11 | 18,075,000 | 18,225,000 | 242 | 555 | 0.823580099 | |
| 11 | 18,150,000 | 18,300,000 | 243 | 620 | -0.851137612 | |
| 11 | 18,225,000 | 18,375,000 | 244 | 696 | -2.413698994 | |
| 11 | 18,300,000 | 18,450,000 | 245 | 943 | -0.67575902 | |
| 11 | 18,375,000 | 18,525,000 | 246 | 950 | -0.344769606 | |
| 11 | 18,450,000 | 18,600,000 | 247 | 691 | -0.158293744 | |
| 11 | 18,525,000 | 18,675,000 | 248 | 683 | -1.092277455 | |
| 11 | 18,600,000 | 18,750,000 | 249 | 995 | -0.838840827 | |
| 11 | 18,675,000 | 18,825,000 | 250 | 779 | -0.454103953 | |
| 11 | 18,750,000 | 18,900,000 | 251 | 519 | -0.483166579 | CRIM1 |
| 11 | 18,825,000 | 18,975,000 | 252 | 542 | 0.066108804 | CRIM1 |
| 11 | 18,900,000 | 19,050,000 | 253 | 467 | 0.946047446 | CRIM1,FEZ2 |
| 11 | 18,975,000 | 19,125,000 | 254 | 777 | 0.79614648 | CRIM1,FEZ2 |
| 11 | 19,050,000 | 19,200,000 | 255 | 704 | 0.446597638 | FEZ2,VIT |
| 11 | 19,125,000 | 19,275,000 | 256 | 736 | -0.269354047 | VIT |
| 11 | 19,200,000 | 19,350,000 | 257 | 763 | -0.474935366 | STRN,VIT |
| 11 | 19,275,000 | 19,425,000 | 258 | 420 | -0.964095892 | STRN,VIT |
| 11 | 19,350,000 | 19,500,000 | 259 | 545 | 0.475916285 | HEATR5B,STRN |
| 11 | 19,425,000 | 19,575,000 | 260 | 705 | 0.492438515 | GPATCH11,HEATR5B,STRN |
| 11 | 19,500,000 | 19,650,000 | 261 | 666 | -0.196677675 | EIF2AK2,GPATCH11,HEATR5B,SULT6B1 |
| 11 | 19,575,000 | 19,725,000 | 262 | 508 | 0.059831136 | CEBPZ,EIF2AK2,GPATCH11,NDUFAF7,PRKD3,SULT6B1 |
| 11 | 19,650,000 | 19,800,000 | 263 | 412 | 0.679048867 | CEBPZ,NDUFAF7,PRKD3 |
| 11 | 19,725,000 | 19,875,000 | 264 | 404 | 0.629297129 | PRKD3,QPCT |
| 11 | 19,800,000 | 19,950,000 | 265 | 520 | 0.845257577 | QPCT |
| 11 | 19,875,000 | 20,025,000 | 266 | 942 | 0.723459282 | |
| 11 | 19,950,000 | 20,100,000 | 267 | 911 | 0.562785603 | |
| 11 | 20,025,000 | 20,175,000 | 268 | 441 | 0.659526395 | CDC42EP3 |
| 11 | 20,100,000 | 20,250,000 | 269 | 301 | 0.689488179 | CDC42EP3 |
| 11 | 20,175,000 | 20,325,000 | 270 | 534 | 0.560355001 | |
| 11 | 20,250,000 | 20,400,000 | 271 | 866 | 0.860668505 | RMDN2 |
| 11 | 20,325,000 | 20,475,000 | 272 | 878 | 0.434402528 | RMDN2 |
| 11 | 20,400,000 | 20,550,000 | 273 | 585 | -0.142193924 | CYP1B1,RMDN2 |
| 11 | 20,475,000 | 20,625,000 | 274 | 603 | -0.325844625 | CYP1B1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 20,550,000 | 20,700,000 | 275 | 764 | -1.090667408 | ATL2 |
| 11 | 20,625,000 | 20,775,000 | 276 | 707 | -0.600146837 | ATL2 |
| 11 | 20,700,000 | 20,850,000 | 277 | 979 | 0.747239583 | ATL2 |
| 11 | 20,775,000 | 20,925,000 | 278 | 927 | 1.077760733 | |
| 11 | 20,850,000 | 21,000,000 | 279 | 430 | 1.161790678 | HNRNPLL |
| 11 | 20,925,000 | 21,075,000 | 280 | 371 | 0.099497832 | GALM,HNRNPLL |
| 11 | 21,000,000 | 21,150,000 | 281 | 564 | 0.025340689 | GALM,GEMIN6,SRSF7,ENSBTAG00000012984 |
| 11 | 21,075,000 | 21,225,000 | 282 | 519 | 0.037238602 | DHX57,GALM,GEMIN6,SRSF7,ENSBTAG00000012984 |
| 11 | 21,150,000 | 21,300,000 | 283 | 424 | -0.048794521 | ARHGEF33,DHX57,GEMIN6,MORN2 |
| 11 | 21,225,000 | 21,375,000 | 284 | 367 | -0.903910752 | ARHGEF33,MORN2,SOS1 |
| 11 | 21,300,000 | 21,450,000 | 285 | 490 | -3.873416101 | ARHGEF33,SOS1 |
| 11 | 21,375,000 | 21,525,000 | 286 | 761 | -2.459773847 | SOS1 |
| 11 | 21,450,000 | 21,600,000 | 287 | 900 | -0.444743482 | CDKL4,MAP4K3,ENSBTAG00000032775 |
| 11 | 21,525,000 | 21,675,000 | 288 | 1043 | 0.455183585 | CDKL4,MAP4K3,ENSBTAG00000032775 |
| 11 | 21,600,000 | 21,750,000 | 289 | 836 | 0.948935682 | MAP4K3 |
| 11 | 21,675,000 | 21,825,000 | 290 | 714 | 0.345913573 | MAP4K3 |
| 11 | 21,750,000 | 21,900,000 | 291 | 909 | 0.291359526 | MAP4K3 |
| 11 | 21,825,000 | 21,975,000 | 292 | 975 | 0.537125826 | |
| 11 | 21,900,000 | 22,050,000 | 293 | 759 | 0.612292034 | TMEM178 |
| 11 | 21,975,000 | 22,125,000 | 294 | 1081 | -0.044369814 | THUMPD2,TMEM178 |
| 11 | 22,050,000 | 22,200,000 | 295 | 1156 | -0.282349861 | THUMPD2 |
| 11 | 22,125,000 | 22,275,000 | 296 | 990 | -0.703791677 | |
| 11 | 22,200,000 | 22,350,000 | 297 | 1148 | -1.251127808 | |
| 11 | 22,275,000 | 22,425,000 | 298 | 1136 | -1.729356105 | |
| 11 | 22,350,000 | 22,500,000 | 299 | 1445 | -1.567964592 | SLC8A1 |
| 11 | 22,425,000 | 22,575,000 | 300 | 1539 | -1.13106521 | SLC8A1 |
| 11 | 22,500,000 | 22,650,000 | 301 | 1338 | -0.105468808 | SLC8A1 |
| 11 | 22,575,000 | 22,725,000 | 302 | 1385 | 0.607756881 | SLC8A1 |
| 11 | 22,650,000 | 22,800,000 | 303 | 1203 | 0.741604098 | SLC8A1 |
| 11 | 22,725,000 | 22,875,000 | 304 | 652 | -0.351739379 | SLC8A1 |
| 11 | 22,800,000 | 22,950,000 | 305 | 603 | -1.256305972 | |
| 11 | 22,875,000 | 23,025,000 | 306 | 983 | 0.644386818 | |
| 11 | 22,950,000 | 23,100,000 | 307 | 1018 | 0.268490269 | |
| 11 | 23,025,000 | 23,175,000 | 308 | 813 | -1.121045878 | |
| 11 | 23,100,000 | 23,250,000 | 309 | 972 | -0.17483074 | |
| 11 | 23,175,000 | 23,325,000 | 310 | 951 | 0.286632642 | |
| 11 | 23,250,000 | 23,400,000 | 311 | 809 | -0.064408355 | |
| 11 | 23,325,000 | 23,475,000 | 312 | 963 | -0.195193692 | |
| 11 | 23,400,000 | 23,550,000 | 313 | 1309 | 0.111315707 | |
| 11 | 23,475,000 | 23,625,000 | 314 | 1354 | 0.353113526 | |
| 11 | 23,550,000 | 23,700,000 | 315 | 1001 | -0.519393117 | |
| 11 | 23,625,000 | 23,775,000 | 316 | 948 | -1.483858154 | |
| 11 | 23,700,000 | 23,850,000 | 317 | 886 | -0.537040865 | |
| 11 | 23,775,000 | 23,925,000 | 318 | 750 | 0.390929205 | |
| 11 | 23,850,000 | 24,000,000 | 319 | 999 | 1.160876024 | |
| 11 | 23,925,000 | 24,075,000 | 320 | 1092 | 0.1316127 | |
| 11 | 24,000,000 | 24,150,000 | 321 | 1119 | -1.548025602 | |
| 11 | 24,075,000 | 24,225,000 | 322 | 902 | -0.04365006 | |
| 11 | 24,150,000 | 24,300,000 | 323 | 640 | 0.706406498 | |
| 11 | 24,225,000 | 24,375,000 | 324 | 762 | 0.437130197 | |
| 11 | 24,300,000 | 24,450,000 | 325 | 837 | -0.290139742 | |
| 11 | 24,375,000 | 24,525,000 | 326 | 793 | 0.192354991 | |
| 11 | 24,450,000 | 24,600,000 | 327 | 695 | 0.968174346 | PKDCC |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 11 | 24,525,000 | 24,675,000 | 328 | 621 | 0.90341201 | PKDCC |
| 11 | 24,600,000 | 24,750,000 | 329 | 516 | 0.555115204 | EML4 |
| 11 | 24,675,000 | 24,825,000 | 330 | 546 | 0.982604997 | COX7A2L,EML4 |
| 11 | 24,750,000 | 24,900,000 | 331 | 722 | 0.941823319 | COX7A2L,EML4 |
| 11 | 24,825,000 | 24,975,000 | 332 | 789 | 0.322253336 | COX7A2L,KCNG3 |
| 11 | 24,900,000 | 25,050,000 | 333 | 550 | -0.470819671 | KCNG3,MTA3 |
| 11 | 24,975,000 | 25,125,000 | 334 | 524 | -1.064870752 | MTA3 |
| 11 | 25,050,000 | 25,200,000 | 335 | 449 | -0.658227862 | HAAO,MTA3,OXER1 |
| 11 | 25,125,000 | 25,275,000 | 336 | 298 | 0.011748928 | HAAO,MTA3,OXER1 |
| 11 | 25,200,000 | 25,350,000 | 337 | 318 | -0.024316659 | HAAO,ENSBTAG00000014836 |
| 11 | 25,275,000 | 25,425,000 | 338 | 460 | -2.15553093 | ENSBTAG00000014836 |
| 11 | 25,350,000 | 25,500,000 | 339 | 539 | -2.485397945 | |
| 11 | 25,425,000 | 25,575,000 | 340 | 464 | -3.415943618 | |
| 11 | 25,500,000 | 25,650,000 | 341 | 625 | -1.608136779 | THADA,ZFP36L2 |
| 11 | 25,575,000 | 25,725,000 | 342 | 554 | 0.690941806 | THADA,ZFP36L2 |
| 11 | 25,650,000 | 25,800,000 | 343 | 389 | -1.024452473 | THADA |
| 11 | 25,725,000 | 25,875,000 | 344 | 369 | -1.050609052 | THADA |
| 11 | 25,800,000 | 25,950,000 | 345 | 284 | -1.027015604 | THADA |
| 11 | 25,875,000 | 26,025,000 | 346 | 452 | -1.951872763 | PLEKHH2,THADA |
| 11 | 25,950,000 | 26,100,000 | 347 | 678 | -0.919043742 | DYNC2LI1,PLEKHH2 |
| 11 | 26,025,000 | 26,175,000 | 348 | 787 | 0.551448294 | ABCG5,ABCG8,DYNC2LI1,PLEKHH2 |
| 11 | 26,100,000 | 26,250,000 | 349 | 703 | 0.787661486 | ABCG5,ABCG8,DYNC2LI1,LRPPRC |
| 11 | 26,175,000 | 26,325,000 | 350 | 505 | 0.768276777 | LRPPRC |
| 11 | 26,250,000 | 26,400,000 | 351 | 580 | 0.679292942 | LRPPRC |
| 11 | 26,325,000 | 26,475,000 | 352 | 683 | 0.80401598 | PPM1B |
| 11 | 26,400,000 | 26,550,000 | 353 | 644 | 0.626071128 | PPM1B,SLC3A1 |
| 11 | 26,475,000 | 26,625,000 | 354 | 418 | 0.374941233 | CAMKMT,PREPL,SLC3A1 |
| 11 | 26,550,000 | 26,700,000 | 355 | 274 | 1.010437911 | CAMKMT,PREPL,SLC3A1 |
| 11 | 26,625,000 | 26,775,000 | 356 | 667 | 1.358347947 | CAMKMT |
| 11 | 26,700,000 | 26,850,000 | 357 | 1209 | 0.902238263 | CAMKMT |
| 11 | 26,775,000 | 26,925,000 | 358 | 1212 | 0.494918843 | CAMKMT |
| 11 | 26,850,000 | 27,000,000 | 359 | 758 | -0.322313744 | CAMKMT |
| 11 | 26,925,000 | 27,075,000 | 360 | 498 | -2.022361022 | CAMKMT |
| 11 | 27,000,000 | 27,150,000 | 361 | 539 | -2.673935453 | CAMKMT |
| 11 | 27,075,000 | 27,225,000 | 362 | 686 | -1.709056341 | SIX3 |
| 11 | 27,150,000 | 27,300,000 | 363 | 702 | -0.077739611 | SIX2,SIX3 |
| 11 | 27,225,000 | 27,375,000 | 364 | 613 | -0.33938227 | SIX2 |
| 11 | 27,300,000 | 27,450,000 | 365 | 664 | 0.099587245 | |
| 11 | 27,375,000 | 27,525,000 | 366 | 739 | 0.586425539 | |
| 11 | 27,450,000 | 27,600,000 | 367 | 760 | 0.314370584 | |
| 11 | 27,525,000 | 27,675,000 | 368 | 581 | -0.451797267 | SRBD1 |
| 11 | 27,600,000 | 27,750,000 | 369 | 393 | -1.053425074 | SRBD1 |
| 11 | 27,675,000 | 27,825,000 | 370 | 430 | 0.896233752 | SRBD1,ENSBTAG00000032651 |
| 11 | 27,750,000 | 27,900,000 | 371 | 378 | 0.347388745 | SRBD1,ENSBTAG00000032651 |
| 11 | 27,825,000 | 27,975,000 | 372 | 340 | -0.144261114 | PRKCE,SRBD1 |
| 11 | 27,900,000 | 28,050,000 | 373 | 541 | 0.751628525 | PRKCE |
| 11 | 27,975,000 | 28,125,000 | 374 | 899 | 0.686101927 | PRKCE |
| 11 | 28,050,000 | 28,200,000 | 375 | 858 | 0.683378986 | PRKCE |
| 11 | 28,125,000 | 28,275,000 | 376 | 532 | 0.37251578 | PRKCE |
| 11 | 28,200,000 | 28,350,000 | 377 | 395 | 0.007045063 | PRKCE |
| 11 | 28,275,000 | 28,425,000 | 378 | 363 | 0.624168218 | PRKCE |
| 11 | 28,350,000 | 28,500,000 | 379 | 451 | 0.655962752 | PRKCE |
| 11 | 28,425,000 | 28,575,000 | 380 | 417 | -1.166449584 | PRKCE |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 28,500,000 | 28,650,000 | 381 | 503 | -1.593884693 | EPAS1 |
| 11 | 28,575,000 | 28,725,000 | 382 | 684 | -0.206079435 | EPAS1 |
| 11 | 28,650,000 | 28,800,000 | 383 | 670 | 0.283837542 | EPAS1,TMEM247 |
| 11 | 28,725,000 | 28,875,000 | 384 | 498 | 0.519437711 | ATP6V1E2,PIGF,RHOQ,TMEM247 |
| 11 | 28,800,000 | 28,950,000 | 385 | 467 | 0.52397268 | ATP6V1E2,CRIPT,PIGF,RHOQ |
| 11 | 28,875,000 | 29,025,000 | 386 | 532 | 0.86664829 | CRIPT,PIGF,SOCS5 |
| 11 | 28,950,000 | 29,100,000 | 387 | 468 | 0.996468456 | SOCS5 |
| 11 | 29,025,000 | 29,175,000 | 388 | 466 | 0.164739739 | SOCS5 |
| 11 | 29,100,000 | 29,250,000 | 389 | 799 | -0.844059627 | MCFD2,TTC7A |
| 11 | 29,175,000 | 29,325,000 | 390 | 814 | -0.644731103 | MCFD2,TTC7A |
| 11 | 29,250,000 | 29,400,000 | 391 | 636 | 0.863386199 | TTC7A |
| 11 | 29,325,000 | 29,475,000 | 392 | 677 | -3.523904315 | TTC7A,ENSBTAG00000001575 |
| 11 | 29,400,000 | 29,550,000 | 393 | 594 | -5.498585441 | ENSBTAG00000001575 |
| 11 | 29,475,000 | 29,625,000 | 394 | 950 | -2.401950988 | |
| 11 | 29,550,000 | 29,700,000 | 395 | 1368 | -1.475931778 | EPCAM,MSH2 |
| 11 | 29,625,000 | 29,775,000 | 396 | 1537 | -0.599549853 | EPCAM,KCNK12,MSH2 |
| 11 | 29,700,000 | 29,850,000 | 397 | 1468 | 0.672499822 | KCNK12,MSH2 |
| 11 | 29,775,000 | 29,925,000 | 398 | 1315 | 1.043620127 | KCNK12 |
| 11 | 29,850,000 | 30,000,000 | 399 | 1097 | 0.909516569 | FBXO11,MSH6 |
| 11 | 29,925,000 | 30,075,000 | 400 | 609 | 0.981556554 | FBXO11,MSH6 |
| 11 | 30,000,000 | 30,150,000 | 401 | 479 | 0.671159924 | FBXO11 |
| 11 | 30,075,000 | 30,225,000 | 402 | 892 | 0.534066608 | FBXO11 |
| 11 | 30,150,000 | 30,300,000 | 403 | 1157 | 0.131299675 | |
| 11 | 30,225,000 | 30,375,000 | 404 | 856 | 0.204414402 | |
| 11 | 30,300,000 | 30,450,000 | 405 | 661 | 0.887403033 | |
| 11 | 30,375,000 | 30,525,000 | 406 | 576 | 0.731614162 | |
| 11 | 30,450,000 | 30,600,000 | 407 | 523 | 0.565112096 | FOXN2,KLRAQ1 |
| 11 | 30,525,000 | 30,675,000 | 408 | 638 | -0.074933487 | FOXN2,KLRAQ1 |
| 11 | 30,600,000 | 30,750,000 | 409 | 811 | -0.35872634 | KLRAQ1,ENSBTAG00000004168 |
| 11 | 30,675,000 | 30,825,000 | 410 | 866 | 0.134529989 | LHCGR,ENSBTAG00000004168,ENSBTAG0000002399 9 |
| 11 | 30,750,000 | 30,900,000 | 411 | 915 | 0.664278068 | LHCGR,ENSBTAG00000023999 |
| 11 | 30,825,000 | 30,975,000 | 412 | 1366 | 0.318457302 | LHCGR,ENSBTAG00000027015 |
| 11 | 30,900,000 | 31,050,000 | 413 | 1567 | 0.233583916 | ENSBTAG00000027015 |
| 11 | 30,975,000 | 31,125,000 | 414 | 1269 | 0.616181582 | FSHR |
| 11 | 31,050,000 | 31,200,000 | 415 | 1378 | 0.13609023 | FSHR |
| 11 | 31,125,000 | 31,275,000 | 416 | 1269 | -0.228740156 | FSHR |
| 11 | 31,200,000 | 31,350,000 | 417 | 865 | -0.232250172 | FSHR |
| 11 | 31,275,000 | 31,425,000 | 418 | 946 | -0.082409663 | FSHR |
| 11 | 31,350,000 | 31,500,000 | 419 | 967 | -1.880467256 | |
| 11 | 31,425,000 | 31,575,000 | 420 | 1073 | -1.777162301 | |
| 11 | 31,500,000 | 31,650,000 | 421 | 955 | -0.139475347 | |
| 11 | 31,575,000 | 31,725,000 | 422 | 705 | -0.267705793 | |
| 11 | 31,650,000 | 31,800,000 | 423 | 663 | -1.116756679 | |
| 11 | 31,725,000 | 31,875,000 | 424 | 627 | -0.547716337 | |
| 11 | 31,800,000 | 31,950,000 | 425 | 533 | -0.562910553 | |
| 11 | 31,875,000 | 32,025,000 | 426 | 826 | -0.990936988 | |
| 11 | 31,950,000 | 32,100,000 | 427 | 1302 | -0.850181447 | |
| 11 | 32,025,000 | 32,175,000 | 428 | 1195 | 0.076000832 | ENSBTAG00000046199 |
| 11 | 32,100,000 | 32,250,000 | 429 | 1063 | 0.951304898 | ENSBTAG00000046199 |
| 11 | 32,175,000 | 32,325,000 | 430 | 1030 | 1.296171297 | ENSBTAG00000046199 |
| 11 | 32,250,000 | 32,400,000 | 431 | 896 | 0.622862437 | ENSBTAG00000046199 |
| 11 | 32,325,000 | 32,475,000 | 432 | 785 | -0.861037859 | ENSBTAG00000046199 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 11 | 32,400,000 | 32,550,000 | 433 | 602 | -1.091082756 | ENSBTAG00000046199 |
| 11 | 32,475,000 | 32,625,000 | 434 | 742 | -0.180584802 | ENSBTAG00000046199 |
| 11 | 32,550,000 | 32,700,000 | 435 | 909 | 0.073316496 | |
| 11 | 32,625,000 | 32,775,000 | 436 | 827 | 0.631430018 | ENSBTAG00000024021 |
| 11 | 32,700,000 | 32,850,000 | 437 | 975 | -0.064393021 | ENSBTAG00000024021 |
| 11 | 32,775,000 | 32,925,000 | 438 | 1058 | -0.54014877 | ENSBTAG00000024021 |
| 11 | 32,850,000 | 33,000,000 | 439 | 843 | 0.013419639 | ENSBTAG00000024021 |
| 11 | 32,925,000 | 33,075,000 | 440 | 847 | 0.497935669 | |
| 11 | 33,000,000 | 33,150,000 | 441 | 939 | 1.129467195 | |
| 11 | 33,075,000 | 33,225,000 | 442 | 717 | 1.324667253 | |
| 11 | 33,150,000 | 33,300,000 | 443 | 552 | 0.253207323 | |
| 11 | 33,225,000 | 33,375,000 | 444 | 672 | -0.25239777 | ENSBTAG00000014072 |
| 11 | 33,300,000 | 33,450,000 | 445 | 838 | 0.520471755 | ENSBTAG00000014072 |
| 11 | 33,375,000 | 33,525,000 | 446 | 1098 | 0.612508391 | |
| 11 | 33,450,000 | 33,600,000 | 447 | 1551 | 0.622611048 | |
| 11 | 33,525,000 | 33,675,000 | 448 | 1802 | 0.834411732 | |
| 11 | 33,600,000 | 33,750,000 | 449 | 1440 | 0.939679121 | |
| 11 | 33,675,000 | 33,825,000 | 450 | 1252 | 0.939413198 | |
| 11 | 33,750,000 | 33,900,000 | 451 | 1724 | -0.101421381 | |
| 11 | 33,825,000 | 33,975,000 | 452 | 1664 | -1.116562654 | |
| 11 | 33,900,000 | 34,050,000 | 453 | 1225 | -2.6203904 | |
| 11 | 33,975,000 | 34,125,000 | 454 | 1210 | -1.884049704 | |
| 11 | 34,050,000 | 34,200,000 | 455 | 974 | 0.864903107 | |
| 11 | 34,125,000 | 34,275,000 | 456 | 912 | 1.181438304 | |
| 11 | 34,200,000 | 34,350,000 | 457 | 1146 | 1.185832987 | |
| 11 | 34,275,000 | 34,425,000 | 458 | 777 | 0.747246421 | |
| 11 | 34,350,000 | 34,500,000 | 459 | 554 | 0.330327912 | |
| 11 | 34,425,000 | 34,575,000 | 460 | 1276 | 0.972259259 | |
| 11 | 34,500,000 | 34,650,000 | 461 | 1515 | 0.879586955 | |
| 11 | 34,575,000 | 34,725,000 | 462 | 1106 | 0.635496337 | |
| 11 | 34,650,000 | 34,800,000 | 463 | 1412 | 0.261295329 | |
| 11 | 34,725,000 | 34,875,000 | 464 | 1842 | 0.251020549 | |
| 11 | 34,800,000 | 34,950,000 | 465 | 1800 | 0.416428967 | |
| 11 | 34,875,000 | 35,025,000 | 466 | 1747 | 0.547268774 | |
| 11 | 34,950,000 | 35,100,000 | 467 | 1663 | 0.381271433 | |
| 11 | 35,025,000 | 35,175,000 | 468 | 1619 | 0.482267684 | |
| 11 | 35,100,000 | 35,250,000 | 469 | 1566 | 0.625497081 | |
| 11 | 35,175,000 | 35,325,000 | 470 | 1392 | 0.195993395 | |
| 11 | 35,250,000 | 35,400,000 | 471 | 1452 | 0.354686197 | |
| 11 | 35,325,000 | 35,475,000 | 472 | 1308 | -1.215522755 | |
| 11 | 35,400,000 | 35,550,000 | 473 | 1053 | -1.979488684 | |
| 11 | 35,475,000 | 35,625,000 | 474 | 937 | 0.174375905 | |
| 11 | 35,550,000 | 35,700,000 | 475 | 1220 | 0.054699906 | |
| 11 | 35,625,000 | 35,775,000 | 476 | 1359 | -0.364593782 | |
| 11 | 35,700,000 | 35,850,000 | 477 | 1219 | -1.812632985 | |
| 11 | 35,775,000 | 35,925,000 | 478 | 1510 | -1.795911759 | |
| 11 | 35,850,000 | 36,000,000 | 479 | 1436 | -1.004851437 | |
| 11 | 35,925,000 | 36,075,000 | 480 | 1053 | 0.399081025 | ENSBTAG0000002943 |
| 11 | 36,000,000 | 36,150,000 | 481 | 817 | 0.517180258 | ENSBTAG0000002943 |
| 11 | 36,075,000 | 36,225,000 | 482 | 646 | -0.060439047 | |
| 11 | 36,150,000 | 36,300,000 | 483 | 802 | 0.546665865 | ENSBTAG00000019458 |
| 11 | 36,225,000 | 36,375,000 | 484 | 818 | 0.082357034 | CHAC2,ERLEC1,ENSBTAG00000019458 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 36,300,000 | 36,450,000 | 485 | 721 | 0.03842347 | CHAC2,ERLEC1,GPR75,PSME4,ENSBTAG00000019458 |
| 11 | 36,375,000 | 36,525,000 | 486 | 727 | 1.008997178 | ERLEC1,GPR75,PSME4 |
| 11 | 36,450,000 | 36,600,000 | 487 | 890 | 0.752279128 | PSME4,ENSBTAG00000024019 |
| 11 | 36,525,000 | 36,675,000 | 488 | 1245 | 0.897141015 | ENSBTAG00000024019 |
| 11 | 36,600,000 | 36,750,000 | 489 | 1201 | 0.718312915 | ACYP2 |
| 11 | 36,675,000 | 36,825,000 | 490 | 962 | -0.104556489 | ACYP2,TSPYL6 |
| 11 | 36,750,000 | 36,900,000 | 491 | 901 | 0.723080682 | ACYP2,C2orf73,TSPYL6 |
| 11 | 36,825,000 | 36,975,000 | 492 | 876 | 0.833849984 | ACYP2,C2orf73 |
| 11 | 36,900,000 | 37,050,000 | 493 | 883 | 0.85850055 | C2orf73,SPTBN1 |
| 11 | 36,975,000 | 37,125,000 | 494 | 933 | 0.990227946 | SPTBN1 |
| 11 | 37,050,000 | 37,200,000 | 495 | 868 | 0.724797999 | SPTBN1 |
| 11 | 37,125,000 | 37,275,000 | 496 | 945 | 0.085418491 | SPTBN1 |
| 11 | 37,200,000 | 37,350,000 | 497 | 951 | -0.433834226 | EML6,SPTBN1 |
| 11 | 37,275,000 | 37,425,000 | 498 | 926 | -0.985443953 | EML6 |
| 11 | 37,350,000 | 37,500,000 | 499 | 1211 | 0.120660247 | EML6 |
| 11 | 37,425,000 | 37,575,000 | 500 | 1411 | 0.49881309 | EML6 |
| 11 | 37,500,000 | 37,650,000 | 501 | 1247 | 0.131199644 | EML6,RTN4 |
| 11 | 37,575,000 | 37,725,000 | 502 | 1228 | 0.681538113 | RTN4 |
| 11 | 37,650,000 | 37,800,000 | 503 | 1474 | 0.065085954 | MGC139228 |
| 11 | 37,725,000 | 37,875,000 | 504 | 1234 | 0.162640384 | CCDC88A,MGC139228,MTIF2,PRORS1,RPS27A |
| 11 | 37,800,000 | 37,950,000 | 505 | 784 | 1.254016859 | CCDC88A,MGC139228,MTIF2,PRORS1,RPS27A |
| 11 | 37,875,000 | 38,025,000 | 506 | 748 | 0.730947694 | CCDC88A |
| 11 | 37,950,000 | 38,100,000 | 507 | 1050 | 0.339273484 | CCDC104,CCDC88A,SMEK2 |
| 11 | 38,025,000 | 38,175,000 | 508 | 1152 | 0.301351568 | CCDC104,PNPT1,SMEK2 |
| 11 | 38,100,000 | 38,250,000 | 509 | 1038 | 0.220031685 | PNPT1,SMEK2 |
| 11 | 38,175,000 | 38,325,000 | 510 | 808 | -0.170870513 | PNPT1 |
| 11 | 38,250,000 | 38,400,000 | 511 | 627 | 0.460701975 | EFEMP1 |
| 11 | 38,325,000 | 38,475,000 | 512 | 636 | 1.14543297 | EFEMP1 |
| 11 | 38,400,000 | 38,550,000 | 513 | 901 | 1.1233154 | EFEMP1 |
| 11 | 38,475,000 | 38,625,000 | 514 | 1482 | 1.206368853 | |
| 11 | 38,550,000 | 38,700,000 | 515 | 1584 | 0.828982045 | |
| 11 | 38,625,000 | 38,775,000 | 516 | 1215 | 0.666350965 | CCDC85A |
| 11 | 38,700,000 | 38,850,000 | 517 | 1051 | 0.686267394 | CCDC85A |
| 11 | 38,775,000 | 38,925,000 | 518 | 1122 | 0.352242789 | CCDC85A |
| 11 | 38,850,000 | 39,000,000 | 519 | 1152 | 0.55927584 | CCDC85A |
| 11 | 38,925,000 | 39,075,000 | 520 | 971 | 0.631439419 | CCDC85A |
| 11 | 39,000,000 | 39,150,000 | 521 | 861 | -0.405515566 | |
| 11 | 39,075,000 | 39,225,000 | 522 | 1313 | -0.401721903 | |
| 11 | 39,150,000 | 39,300,000 | 523 | 1271 | -0.070725539 | |
| 11 | 39,225,000 | 39,375,000 | 524 | 719 | -0.764433195 | |
| 11 | 39,300,000 | 39,450,000 | 525 | 886 | 0.147033477 | |
| 11 | 39,375,000 | 39,525,000 | 526 | 993 | 0.10883077 | |
| 11 | 39,450,000 | 39,600,000 | 527 | 841 | -2.554357027 | |
| 11 | 39,525,000 | 39,675,000 | 528 | 741 | -1.54170419 | |
| 11 | 39,600,000 | 39,750,000 | 529 | 603 | 0.138710384 | |
| 11 | 39,675,000 | 39,825,000 | 530 | 491 | -0.294745087 | |
| 11 | 39,750,000 | 39,900,000 | 531 | 838 | 0.618815147 | |
| 11 | 39,825,000 | 39,975,000 | 532 | 1239 | 0.676916312 | |
| 11 | 39,900,000 | 40,050,000 | 533 | 914 | 0.423313304 | |
| 11 | 39,975,000 | 40,125,000 | 534 | 649 | -0.248566562 | |
| 11 | 40,050,000 | 40,200,000 | 535 | 1026 | -1.438923771 | |
| 11 | 40,125,000 | 40,275,000 | 536 | 908 | -1.831549323 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 11 | 40,200,000 | 40,350,000 | 537 | 451 | -0.842797707 | |
| 11 | 40,275,000 | 40,425,000 | 538 | 546 | 0.476012938 | |
| 11 | 40,350,000 | 40,500,000 | 539 | 886 | 0.626902858 | |
| 11 | 40,425,000 | 40,575,000 | 540 | 1222 | 0.121157514 | VRK2 |
| 11 | 40,500,000 | 40,650,000 | 541 | 963 | -0.173577218 | VRK2 |
| 11 | 40,575,000 | 40,725,000 | 542 | 591 | -0.529880321 | FANCL,VRK2 |
| 11 | 40,650,000 | 40,800,000 | 543 | 983 | -0.219443245 | FANCL,VRK2 |
| 11 | 40,725,000 | 40,875,000 | 544 | 1089 | -0.275625544 | FANCL |
| 11 | 40,800,000 | 40,950,000 | 545 | 686 | -0.817002779 | |
| 11 | 40,875,000 | 41,025,000 | 546 | 471 | -1.001061604 | |
| 11 | 40,950,000 | 41,100,000 | 547 | 330 | -0.253072411 | |
| 11 | 41,025,000 | 41,175,000 | 548 | 293 | -0.21145517 | |
| 11 | 41,100,000 | 41,250,000 | 549 | 443 | -0.517511792 | |
| 11 | 41,175,000 | 41,325,000 | 550 | 680 | -1.77537935 | |
| 11 | 41,250,000 | 41,400,000 | 551 | 741 | -3.435929682 | |
| 11 | 41,325,000 | 41,475,000 | 552 | 569 | -2.454427472 | |
| 11 | 41,400,000 | 41,550,000 | 553 | 561 | -0.368933325 | |
| 11 | 41,475,000 | 41,625,000 | 554 | 681 | 0.385103703 | |
| 11 | 41,550,000 | 41,700,000 | 555 | 692 | 0.303095433 | |
| 11 | 41,625,000 | 41,775,000 | 556 | 692 | 0.265870864 | |
| 11 | 41,700,000 | 41,850,000 | 557 | 615 | -1.536521537 | |
| 11 | 41,775,000 | 41,925,000 | 558 | 618 | -2.239609678 | |
| 11 | 41,850,000 | 42,000,000 | 559 | 919 | 0.12165233 | |
| 11 | 41,925,000 | 42,075,000 | 560 | 1011 | 0.022116068 | |
| 11 | 42,000,000 | 42,150,000 | 561 | 696 | -0.836178749 | |
| 11 | 42,075,000 | 42,225,000 | 562 | 859 | 0.031651881 | |
| 11 | 42,150,000 | 42,300,000 | 563 | 1029 | 0.541602842 | |
| 11 | 42,225,000 | 42,375,000 | 564 | 737 | 0.760740328 | |
| 11 | 42,300,000 | 42,450,000 | 565 | 621 | 0.544077204 | |
| 11 | 42,375,000 | 42,525,000 | 566 | 657 | 0.086904463 | |
| 11 | 42,450,000 | 42,600,000 | 567 | 747 | -0.243819542 | |
| 11 | 42,525,000 | 42,675,000 | 568 | 804 | -0.101230916 | |
| 11 | 42,600,000 | 42,750,000 | 569 | 610 | -0.123202848 | |
| 11 | 42,675,000 | 42,825,000 | 570 | 630 | -0.123507375 | |
| 11 | 42,750,000 | 42,900,000 | 571 | 840 | 0.488395537 | |
| 11 | 42,825,000 | 42,975,000 | 572 | 623 | 0.671393166 | |
| 11 | 42,900,000 | 43,050,000 | 573 | 667 | -0.563964338 | |
| 11 | 42,975,000 | 43,125,000 | 574 | 786 | -0.469199623 | BCL11A |
| 11 | 43,050,000 | 43,200,000 | 575 | 507 | 0.352312138 | BCL11A |
| 11 | 43,125,000 | 43,275,000 | 576 | 506 | 0.856159004 | BCL11A |
| 11 | 43,200,000 | 43,350,000 | 577 | 702 | 0.13298643 | |
| 11 | 43,275,000 | 43,425,000 | 578 | 594 | -0.040918947 | PAPOLG |
| 11 | 43,350,000 | 43,500,000 | 579 | 438 | 0.846137089 | PAPOLG |
| 11 | 43,425,000 | 43,575,000 | 580 | 431 | 0.854943384 | PUS10,REL |
| 11 | 43,500,000 | 43,650,000 | 581 | 382 | 0.582110077 | PEX13,PUS10,REL |
| 11 | 43,575,000 | 43,725,000 | 582 | 451 | 0.579881288 | PEX13,PUS10 |
| 11 | 43,650,000 | 43,800,000 | 583 | 795 | 0.757443219 | GCFC2 |
| 11 | 43,725,000 | 43,875,000 | 584 | 733 | 0.777115624 | GCFC2 |
| 11 | 43,800,000 | 43,950,000 | 585 | 1090 | 0.803008308 | GCFC2,MRPL19,ENSBTAG00000018554 |
| 11 | 43,875,000 | 44,025,000 | 586 | 1491 | 0.881194845 | MRPL19,ENSBTAG00000018554 |
| 11 | 43,950,000 | 44,100,000 | 587 | 1342 | 1.312924339 | |
| 11 | 44,025,000 | 44,175,000 | 588 | 1200 | 1.562327935 | |
| 11 | 44,100,000 | 44,250,000 | 589 | 880 | 1.53533674 | SEPT10,SH3RF3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 44,175,000 | 44,325,000 | 590 | 1088 | 1.414325363 | SEPT10,SH3RF3 |
| 11 | 44,250,000 | 44,400,000 | 591 | 819 | 1.118627348 | SH3RF3 |
| 11 | 44,325,000 | 44,475,000 | 592 | 335 | -0.957847407 | EDAR,SH3RF3 |
| 11 | 44,400,000 | 44,550,000 | 593 | 313 | 0.172094646 | CCDC138,EDAR,RANBP2 |
| 11 | 44,475,000 | 44,625,000 | 594 | 270 | -0.35930529 | CCDC138,MGC142792,RANBP2 |
| 11 | 44,550,000 | 44,700,000 | 595 | 410 | 0.540336413 | GCC2,MGC142792,RANBP2 |
| 11 | 44,625,000 | 44,775,000 | 596 | 703 | -0.929573805 | GCC2,MGC142792,SULT1C2,SULT1C3,ENSBTAG00000016032,ENSBTAG000000032051 |
| 11 | 44,700,000 | 44,850,000 | 597 | 807 | -1.765892998 | GCC2,SULT1C2,SULT1C3,ENSBTAG00000016032,ENSBTAG000000032051 |
| 11 | 44,775,000 | 44,925,000 | 598 | 718 | -1.585852664 | SLC5A7,SULT1C3 |
| 11 | 44,850,000 | 45,000,000 | 599 | 686 | -0.46411077 | SLC5A7 |
| 11 | 44,925,000 | 45,075,000 | 600 | 803 | -0.100051771 | |
| 11 | 45,000,000 | 45,150,000 | 601 | 1064 | -0.332933302 | |
| 11 | 45,075,000 | 45,225,000 | 602 | 820 | -0.281193533 | |
| 11 | 45,150,000 | 45,300,000 | 603 | 464 | 0.231265633 | |
| 11 | 45,225,000 | 45,375,000 | 604 | 355 | 0.778885777 | |
| 11 | 45,300,000 | 45,450,000 | 605 | 377 | 1.218844284 | ST6GAL2 |
| 11 | 45,375,000 | 45,525,000 | 606 | 520 | 1.391335153 | ST6GAL2 |
| 11 | 45,450,000 | 45,600,000 | 607 | 368 | 1.219752999 | ST6GAL2,UXS1 |
| 11 | 45,525,000 | 45,675,000 | 608 | 307 | 0.922608464 | UXS1 |
| 11 | 45,600,000 | 45,750,000 | 609 | 706 | 0.982412746 | C11H2orf40,UXS1 |
| 11 | 45,675,000 | 45,825,000 | 610 | 1034 | 0.590552062 | C11H2orf40,NCK2 |
| 11 | 45,750,000 | 45,900,000 | 611 | 1031 | 0.387335666 | NCK2 |
| 11 | 45,825,000 | 45,975,000 | 612 | 1211 | 0.551196749 | NCK2 |
| 11 | 45,900,000 | 46,050,000 | 613 | 1627 | 0.986548819 | |
| 11 | 45,975,000 | 46,125,000 | 614 | 1492 | 0.84776995 | POLR1B,TTL |
| 11 | 46,050,000 | 46,200,000 | 615 | 1171 | 0.033705041 | POLR1B,TTL |
| 11 | 46,125,000 | 46,275,000 | 616 | 810 | -0.029204664 | POLR1B,SLC20A1 |
| 11 | 46,200,000 | 46,350,000 | 617 | 731 | 0.650807397 | CKAP2L,IL1A,NT5DC4,SLC20A1 |
| 11 | 46,275,000 | 46,425,000 | 618 | 802 | 0.813495026 | CKAP2L,IL1A,IL1B,NT5DC4 |
| 11 | 46,350,000 | 46,500,000 | 619 | 747 | 0.415443527 | IL1A,IL1B,IL37 |
| 11 | 46,425,000 | 46,575,000 | 620 | 1201 | 0.294678421 | IL36A,IL36G,IL37,ENSBTAG00000039476 |
| 11 | 46,500,000 | 46,650,000 | 621 | 1416 | 0.007170326 | IL1F10,IL36A,IL36B,IL36G,IL36RN,ENSBTAG000000039476 |
| 11 | 46,575,000 | 46,725,000 | 622 | 1319 | -0.517085943 | IL1F10,IL1RN,IL36B,IL36RN |
| 11 | 46,650,000 | 46,800,000 | 623 | 1419 | -0.086231208 | IL1RN,PAX8,PSD4 |
| 11 | 46,725,000 | 46,875,000 | 624 | 1274 | -0.00590298 | PAX8,PSD4 |
| 11 | 46,800,000 | 46,950,000 | 625 | 1083 | -0.84586775 | PAX8 |
| 11 | 46,875,000 | 47,025,000 | 626 | 1260 | 0.000121168 | ENSBTAG00000047185 |
| 11 | 46,950,000 | 47,100,000 | 627 | 1747 | 0.422605719 | ENSBTAG00000047029,ENSBTAG00000047185 |
| 11 | 47,025,000 | 47,175,000 | 628 | 1837 | 0.317301591 | ENSBTAG00000003408,ENSBTAG00000045514,ENSBTAG00000045659,ENSBTAG00000047029 |
| 11 | 47,100,000 | 47,250,000 | 629 | 1196 | 0.655119271 | RPIA,ENSBTAG00000003408,ENSBTAG00000045514,ENSBTAG00000045659 |
| 11 | 47,175,000 | 47,325,000 | 630 | 822 | 0.928066067 | EIF2AK3,RPIA |
| 11 | 47,250,000 | 47,400,000 | 631 | 928 | 0.451942212 | EIF2AK3,RPIA |
| 11 | 47,325,000 | 47,475,000 | 632 | 966 | -0.10404798 | EIF2AK3,TEX37 |
| 11 | 47,400,000 | 47,550,000 | 633 | 814 | 0.133512645 | FOXI3,TEX37 |
| 11 | 47,475,000 | 47,625,000 | 634 | 549 | 0.881599678 | FOXI3 |
| 11 | 47,550,000 | 47,700,000 | 635 | 546 | 1.306044068 | |
| 11 | 47,625,000 | 47,775,000 | 636 | 1070 | 0.350016776 | THNSL2 |
| 11 | 47,700,000 | 47,850,000 | 637 | 1181 | -1.613583244 | FABP1,SMYD1,THNSL2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 47,775,000 | 47,925,000 | 638 | 681 | -3.167769123 | CD8B,FABP1,KRCC1,SMYD1,ENSBTAG00000002545 |
| 11 | 47,850,000 | 48,000,000 | 639 | 407 | -1.36110541 | CD8A,CD8B,KRCC1,ENSBTAG00000002545 |
| 11 | 47,925,000 | 48,075,000 | 640 | 418 | -1.532500988 | CD8A,CD8B,RMND5A |
| 11 | 48,000,000 | 48,150,000 | 641 | 479 | -2.132990209 | RMND5A,RNF103 |
| 11 | 48,075,000 | 48,225,000 | 642 | 439 | -2.240326563 | CHMP3,RNF103 |
| 11 | 48,150,000 | 48,300,000 | 643 | 322 | -1.416014509 | CHMP3,KDM3A,RNF103 |
| 11 | 48,225,000 | 48,375,000 | 644 | 448 | -1.652132012 | CHMP3,KDM3A |
| 11 | 48,300,000 | 48,450,000 | 645 | 867 | -0.952518811 | KDM3A,REEP1 |
| 11 | 48,375,000 | 48,525,000 | 646 | 1090 | -0.51371083 | REEP1 |
| 11 | 48,450,000 | 48,600,000 | 647 | 885 | 0.656657258 | IMMT,MRPL35,PTCD3,REEP1 |
| 11 | 48,525,000 | 48,675,000 | 648 | 647 | 1.443645052 | IMMT,MRPL35,POLR1A,PTCD3,REEP1 |
| 11 | 48,600,000 | 48,750,000 | 649 | 678 | 0.660124284 | POLR1A,PTCD3 |
| 11 | 48,675,000 | 48,825,000 | 650 | 884 | -0.449325897 | POLR1A |
| 11 | 48,750,000 | 48,900,000 | 651 | 609 | -0.43735846 | ST3GAL5 |
| 11 | 48,825,000 | 48,975,000 | 652 | 385 | -0.62788091 | ATOH8,ST3GAL5 |
| 11 | 48,900,000 | 49,050,000 | 653 | 565 | -0.460639501 | ATOH8,ST3GAL5 |
| 11 | 48,975,000 | 49,125,000 | 654 | 1409 | 0.424770713 | ATOH8,ENSBTAG00000047449,ENSBTAG00000047816 |
| 11 | 49,050,000 | 49,200,000 | 655 | 1637 | 0.559346665 | SFTPBP,USP39,ENSBTAG00000031828,ENSBTAG00000047449,ENSBTAG00000047816 |
| 11 | 49,125,000 | 49,275,000 | 656 | 1020 | 0.905674306 | C2orf68,RNF181,SFTPBP,TMEM150A,USP39,VAMP5,VAMP8,ENSBTAG00000031828 |
| 11 | 49,200,000 | 49,350,000 | 657 | 736 | 0.733803706 | C2orf68,GGCX,MAT2A,RNF181,TMEM150A,USP39,VAMP5,VAMP8 |
| 11 | 49,275,000 | 49,425,000 | 658 | 457 | 0.320080048 | CAPG,GGCX,MAT2A,SH2D6 |
| 11 | 49,350,000 | 49,500,000 | 659 | 442 | 0.288633969 | CAPG,ELMOD3,RETSAT,SH2D6,TGOLN2 |
| 11 | 49,425,000 | 49,575,000 | 660 | 459 | 0.431137287 | CAPG,ELMOD3,RETSAT,TGOLN2,ENSBTAG00000010111 |
| 11 | 49,500,000 | 49,650,000 | 661 | 452 | -1.016264809 | ENSBTAG00000010111 |
| 11 | 49,575,000 | 49,725,000 | 662 | 711 | -0.781038649 | ENSBTAG00000047475 |
| 11 | 49,650,000 | 49,800,000 | 663 | 882 | 0.441592131 | HIGD1D,KCMF1,ENSBTAG00000047475 |
| 11 | 49,725,000 | 49,875,000 | 664 | 598 | 0.909798098 | HIGD1D,KCMF1 |
| 11 | 49,800,000 | 49,950,000 | 665 | 536 | 0.257901279 | KCMF1,TMSB10 |
| 11 | 49,875,000 | 50,025,000 | 666 | 643 | -0.201561617 | TMSB10 |
| 11 | 49,950,000 | 50,100,000 | 667 | 907 | -5.887384813 | |
| 11 | 50,025,000 | 50,175,000 | 668 | 1002 | -6.462536459 | |
| 11 | 50,100,000 | 50,250,000 | 669 | 1105 | -1.672717039 | |
| 11 | 50,175,000 | 50,325,000 | 670 | 1219 | 0.228830674 | |
| 11 | 50,250,000 | 50,400,000 | 671 | 1062 | 1.094148776 | |
| 11 | 50,325,000 | 50,475,000 | 672 | 1007 | 0.481429024 | SUCLG1 |
| 11 | 50,400,000 | 50,550,000 | 673 | 781 | -0.0583999 | SUCLG1 |
| 11 | 50,475,000 | 50,625,000 | 674 | 746 | 0.37217945 | |
| 11 | 50,550,000 | 50,700,000 | 675 | 613 | 0.422464472 | |
| 11 | 50,625,000 | 50,775,000 | 676 | 402 | 0.262739492 | |
| 11 | 50,700,000 | 50,850,000 | 677 | 450 | 0.266666658 | |
| 11 | 50,775,000 | 50,925,000 | 678 | 810 | -0.260196276 | |
| 11 | 50,850,000 | 51,000,000 | 679 | 1158 | -0.136472105 | |
| 11 | 50,925,000 | 51,075,000 | 680 | 1116 | -0.615640816 | |
| 11 | 51,000,000 | 51,150,000 | 681 | 1034 | -0.221664398 | |
| 11 | 51,075,000 | 51,225,000 | 682 | 1205 | -0.244407187 | |
| 11 | 51,150,000 | 51,300,000 | 683 | 1177 | -0.470621177 | |
| 11 | 51,225,000 | 51,375,000 | 684 | 1211 | -2.240962235 | |
| 11 | 51,300,000 | 51,450,000 | 685 | 1343 | -1.717219852 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 11 | 51,375,000 | 51,525,000 | 686 | 1301 | 1.094271988 | |
| 11 | 51,450,000 | 51,600,000 | 687 | 1201 | 1.234156078 | |
| 11 | 51,525,000 | 51,675,000 | 688 | 996 | 0.356942203 | |
| 11 | 51,600,000 | 51,750,000 | 689 | 1192 | -0.713287909 | |
| 11 | 51,675,000 | 51,825,000 | 690 | 1411 | -0.101273913 | |
| 11 | 51,750,000 | 51,900,000 | 691 | 1355 | 0.897661495 | |
| 11 | 51,825,000 | 51,975,000 | 692 | 1409 | 0.861996334 | |
| 11 | 51,900,000 | 52,050,000 | 693 | 1380 | 1.003501248 | |
| 11 | 51,975,000 | 52,125,000 | 694 | 1175 | 1.382405924 | |
| 11 | 52,050,000 | 52,200,000 | 695 | 1148 | 1.474375901 | |
| 11 | 52,125,000 | 52,275,000 | 696 | 1288 | 1.422100761 | |
| 11 | 52,200,000 | 52,350,000 | 697 | 1457 | 1.317002885 | |
| 11 | 52,275,000 | 52,425,000 | 698 | 1193 | 0.90537517 | |
| 11 | 52,350,000 | 52,500,000 | 699 | 1260 | 0.267660125 | |
| 11 | 52,425,000 | 52,575,000 | 700 | 1723 | 0.329910736 | |
| 11 | 52,500,000 | 52,650,000 | 701 | 1528 | -2.362861043 | |
| 11 | 52,575,000 | 52,725,000 | 702 | 1200 | -4.069853268 | |
| 11 | 52,650,000 | 52,800,000 | 703 | 945 | -2.197382554 | |
| 11 | 52,725,000 | 52,875,000 | 704 | 714 | -0.85450249 | |
| 11 | 52,800,000 | 52,950,000 | 705 | 704 | -1.040825099 | |
| 11 | 52,875,000 | 53,025,000 | 706 | 862 | -0.539099181 | |
| 11 | 52,950,000 | 53,100,000 | 707 | 1345 | 0.091137105 | |
| 11 | 53,025,000 | 53,175,000 | 708 | 1643 | 0.186072312 | |
| 11 | 53,100,000 | 53,250,000 | 709 | 1562 | -0.6281032 | |
| 11 | 53,175,000 | 53,325,000 | 710 | 1237 | -1.955499888 | |
| 11 | 53,250,000 | 53,400,000 | 711 | 920 | -1.542256952 | |
| 11 | 53,325,000 | 53,475,000 | 712 | 942 | -0.772689067 | |
| 11 | 53,400,000 | 53,550,000 | 713 | 1220 | -1.182872569 | |
| 11 | 53,475,000 | 53,625,000 | 714 | 1048 | -1.076103937 | |
| 11 | 53,550,000 | 53,700,000 | 715 | 672 | 0.246104878 | |
| 11 | 53,625,000 | 53,775,000 | 716 | 785 | 0.431175056 | |
| 11 | 53,700,000 | 53,850,000 | 717 | 972 | -0.134736968 | |
| 11 | 53,775,000 | 53,925,000 | 718 | 881 | 0.10217563 | |
| 11 | 53,850,000 | 54,000,000 | 719 | 824 | 0.119374596 | |
| 11 | 53,925,000 | 54,075,000 | 720 | 1035 | -0.306853199 | |
| 11 | 54,000,000 | 54,150,000 | 721 | 853 | -0.292507439 | |
| 11 | 54,075,000 | 54,225,000 | 722 | 630 | -0.260385546 | |
| 11 | 54,150,000 | 54,300,000 | 723 | 796 | 0.731957973 | |
| 11 | 54,225,000 | 54,375,000 | 724 | 1020 | 0.864511865 | |
| 11 | 54,300,000 | 54,450,000 | 725 | 1124 | 0.86613412 | |
| 11 | 54,375,000 | 54,525,000 | 726 | 1111 | 0.608861856 | |
| 11 | 54,450,000 | 54,600,000 | 727 | 795 | 0.447725399 | |
| 11 | 54,525,000 | 54,675,000 | 728 | 526 | 1.126361405 | |
| 11 | 54,600,000 | 54,750,000 | 729 | 529 | 1.262607552 | CTNNA2 |
| 11 | 54,675,000 | 54,825,000 | 730 | 709 | -0.153044384 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,750,000 | 54,900,000 | 731 | 1185 | -3.938275855 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,825,000 | 54,975,000 | 732 | 1425 | -4.132318892 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,900,000 | 55,050,000 | 733 | 994 | -2.267512041 | CTNNA2,ENSBTAG00000047167 |
| 11 | 54,975,000 | 55,125,000 | 734 | 690 | -1.124270055 | CTNNA2,ENSBTAG00000047167 |
| 11 | 55,050,000 | 55,200,000 | 735 | 637 | -0.293407918 | CTNNA2 |
| 11 | 55,125,000 | 55,275,000 | 736 | 536 | 0.186474115 | CTNNA2 |
| 11 | 55,200,000 | 55,350,000 | 737 | 733 | 0.497695279 | CTNNA2 |
| 11 | 55,275,000 | 55,425,000 | 738 | 1027 | -0.547889689 | CTNNA2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 11 | 55,350,000 | 55,500,000 | 739 | 1331 | -2.798321213 | CTNNA2 |
| 11 | 55,425,000 | 55,575,000 | 740 | 1348 | -2.420002854 | CTNNA2 |
| 11 | 55,500,000 | 55,650,000 | 741 | 1272 | 0.024787608 | CTNNA2 |
| 11 | 55,575,000 | 55,725,000 | 742 | 959 | 0.642595322 | CTNNA2 |
| 11 | 55,650,000 | 55,800,000 | 743 | 473 | 0.692327807 | CTNNA2 |
| 11 | 55,725,000 | 55,875,000 | 744 | 530 | 1.120446158 | CTNNA2 |
| 11 | 55,800,000 | 55,950,000 | 745 | 870 | 0.174403284 | CTNNA2 |
| 11 | 55,875,000 | 56,025,000 | 746 | 712 | -0.278364476 | CTNNA2 |
| 11 | 55,950,000 | 56,100,000 | 747 | 355 | 1.398857107 | |
| 11 | 56,025,000 | 56,175,000 | 748 | 535 | 0.853129834 | |
| 11 | 56,100,000 | 56,250,000 | 749 | 854 | 0.718355584 | |
| 11 | 56,175,000 | 56,325,000 | 750 | 981 | 0.14334588 | |
| 11 | 56,250,000 | 56,400,000 | 751 | 1333 | -1.123752924 | |
| 11 | 56,325,000 | 56,475,000 | 752 | 1383 | -0.65469307 | |
| 11 | 56,400,000 | 56,550,000 | 753 | 1009 | 0.809740715 | REG3G |
| 11 | 56,475,000 | 56,625,000 | 754 | 1115 | 1.265197878 | REG3G |
| 11 | 56,550,000 | 56,700,000 | 755 | 1639 | 1.142198718 | PTP |
| 11 | 56,625,000 | 56,775,000 | 756 | 1412 | 0.723720815 | PTP |
| 11 | 56,700,000 | 56,850,000 | 757 | 561 | 0.575812119 | |
| 11 | 56,775,000 | 56,925,000 | 758 | 603 | 0.305880178 | |
| 11 | 56,850,000 | 57,000,000 | 759 | 592 | 0.227614446 | ENSBTAG00000000168 |
| 11 | 56,925,000 | 57,075,000 | 760 | 535 | -0.328349326 | ENSBTAG00000000168 |
| 11 | 57,000,000 | 57,150,000 | 761 | 977 | 0.204500482 | |
| 11 | 57,075,000 | 57,225,000 | 762 | 1205 | 1.160842292 | |
| 11 | 57,150,000 | 57,300,000 | 763 | 1006 | 1.382436778 | |
| 11 | 57,225,000 | 57,375,000 | 764 | 1056 | -0.464579303 | |
| 11 | 57,300,000 | 57,450,000 | 765 | 945 | -1.109175004 | |
| 11 | 57,375,000 | 57,525,000 | 766 | 792 | -2.097374634 | |
| 11 | 57,450,000 | 57,600,000 | 767 | 891 | -1.984919478 | |
| 11 | 57,525,000 | 57,675,000 | 768 | 904 | -0.214707572 | |
| 11 | 57,600,000 | 57,750,000 | 769 | 1256 | 0.6441953 | |
| 11 | 57,675,000 | 57,825,000 | 770 | 1107 | 0.789248317 | |
| 11 | 57,750,000 | 57,900,000 | 771 | 749 | 0.773446906 | |
| 11 | 57,825,000 | 57,975,000 | 772 | 844 | 0.010465637 | |
| 11 | 57,900,000 | 58,050,000 | 773 | 889 | 0.161674567 | |
| 11 | 57,975,000 | 58,125,000 | 774 | 836 | 0.493725241 | |
| 11 | 58,050,000 | 58,200,000 | 775 | 806 | 0.909937484 | |
| 11 | 58,125,000 | 58,275,000 | 776 | 911 | 0.826912895 | |
| 11 | 58,200,000 | 58,350,000 | 777 | 970 | 0.32321812 | |
| 11 | 58,275,000 | 58,425,000 | 778 | 959 | 0.809183269 | |
| 11 | 58,350,000 | 58,500,000 | 779 | 751 | 1.06237054 | LRRTM4 |
| 11 | 58,425,000 | 58,575,000 | 780 | 772 | 0.939216378 | LRRTM4 |
| 11 | 58,500,000 | 58,650,000 | 781 | 930 | 0.855699165 | |
| 11 | 58,575,000 | 58,725,000 | 782 | 644 | 0.486010879 | |
| 11 | 58,650,000 | 58,800,000 | 783 | 644 | 0.013986082 | |
| 11 | 58,725,000 | 58,875,000 | 784 | 828 | 0.506536484 | |
| 11 | 58,800,000 | 58,950,000 | 785 | 838 | 1.109031204 | |
| 11 | 58,875,000 | 59,025,000 | 786 | 774 | 0.637730856 | |
| 11 | 58,950,000 | 59,100,000 | 787 | 931 | -0.167097023 | |
| 11 | 59,025,000 | 59,175,000 | 788 | 1006 | 0.424072679 | |
| 11 | 59,100,000 | 59,250,000 | 789 | 839 | 0.890815906 | |
| 11 | 59,175,000 | 59,325,000 | 790 | 679 | -0.072126954 | |
| 11 | 59,250,000 | 59,400,000 | 791 | 577 | 0.054975682 | |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|---------------------|
| 11 | 59,325,000 | 59,475,000 | 792 | 671 | 0.102564923 | |
| 11 | 59,400,000 | 59,550,000 | 793 | 712 | 0.005943945 | |
| 11 | 59,475,000 | 59,625,000 | 794 | 868 | -0.417882201 | |
| 11 | 59,550,000 | 59,700,000 | 795 | 833 | -0.682783226 | |
| 11 | 59,625,000 | 59,775,000 | 796 | 453 | -0.584347638 | AHSA2,C2orf74 |
| 11 | 59,700,000 | 59,850,000 | 797 | 369 | 0.148092612 | AHSA2,C2orf74,USP34 |
| 11 | 59,775,000 | 59,925,000 | 798 | 423 | -0.856306717 | AHSA2,USP34 |
| 11 | 59,850,000 | 60,000,000 | 799 | 415 | -1.170126017 | USP34 |
| 11 | 59,925,000 | 60,075,000 | 800 | 350 | -0.734816776 | USP34,XPO1 |
| 11 | 60,000,000 | 60,150,000 | 801 | 343 | -0.012744037 | XPO1 |
| 11 | 60,075,000 | 60,225,000 | 802 | 539 | 0.861604744 | XPO1 |
| 11 | 60,150,000 | 60,300,000 | 803 | 642 | 0.091678167 | |
| 11 | 60,225,000 | 60,375,000 | 804 | 687 | 0.530960805 | FAM161A |
| 11 | 60,300,000 | 60,450,000 | 805 | 918 | 0.553018684 | CCT4,COMMD1,FAM161A |
| 11 | 60,375,000 | 60,525,000 | 806 | 945 | 0.176839697 | CCT4,COMMD1,FAM161A |
| 11 | 60,450,000 | 60,600,000 | 807 | 979 | 0.514609655 | COMMD1 |
| 11 | 60,525,000 | 60,675,000 | 808 | 745 | 0.476276263 | B3GNT2,COMMD1 |
| 11 | 60,600,000 | 60,750,000 | 809 | 360 | -0.07483442 | B3GNT2 |
| 11 | 60,675,000 | 60,825,000 | 810 | 650 | -1.228002731 | B3GNT2 |
| 11 | 60,750,000 | 60,900,000 | 811 | 824 | -1.641396666 | |
| 11 | 60,825,000 | 60,975,000 | 812 | 739 | -0.614563688 | TMEM17 |
| 11 | 60,900,000 | 61,050,000 | 813 | 664 | 0.075041932 | TMEM17 |
| 11 | 60,975,000 | 61,125,000 | 814 | 737 | -2.673210381 | EHBP1 |
| 11 | 61,050,000 | 61,200,000 | 815 | 607 | -2.608847623 | EHBP1 |
| 11 | 61,125,000 | 61,275,000 | 816 | 304 | 0.508744917 | EHBP1 |
| 11 | 61,200,000 | 61,350,000 | 817 | 368 | 0.565927595 | EHBP1 |
| 11 | 61,275,000 | 61,425,000 | 818 | 434 | -0.477786801 | EHBP1 |
| 11 | 61,350,000 | 61,500,000 | 819 | 341 | -0.209175968 | EHBP1,OTX1 |
| 11 | 61,425,000 | 61,575,000 | 820 | 267 | 0.898031741 | EHBP1,OTX1 |
| 11 | 61,500,000 | 61,650,000 | 821 | 348 | 0.95346667 | |
| 11 | 61,575,000 | 61,725,000 | 822 | 389 | 0.931055644 | |
| 11 | 61,650,000 | 61,800,000 | 823 | 382 | 0.579719379 | WDPCP |
| 11 | 61,725,000 | 61,875,000 | 824 | 403 | -0.228282688 | WDPCP |
| 11 | 61,800,000 | 61,950,000 | 825 | 463 | -0.668957376 | WDPCP |
| 11 | 61,875,000 | 62,025,000 | 826 | 609 | 1.017960325 | MDH1,WDPCP |
| 11 | 61,950,000 | 62,100,000 | 827 | 695 | 1.198177595 | MDH1,WDPCP |
| 11 | 62,025,000 | 62,175,000 | 828 | 482 | 0.135708093 | |
| 11 | 62,100,000 | 62,250,000 | 829 | 341 | -2.5148869 | UGP2 |
| 11 | 62,175,000 | 62,325,000 | 830 | 350 | -2.077077688 | UGP2,VPS54 |
| 11 | 62,250,000 | 62,400,000 | 831 | 337 | -1.325243473 | UGP2,VPS54 |
| 11 | 62,325,000 | 62,475,000 | 832 | 356 | -0.141438734 | PELI1,VPS54 |
| 11 | 62,400,000 | 62,550,000 | 833 | 542 | -0.297474014 | PELI1 |
| 11 | 62,475,000 | 62,625,000 | 834 | 764 | -0.648228871 | PELI1 |
| 11 | 62,550,000 | 62,700,000 | 835 | 701 | -0.781487955 | |
| 11 | 62,625,000 | 62,775,000 | 836 | 786 | -0.429573081 | |
| 11 | 62,700,000 | 62,850,000 | 837 | 765 | -0.677163399 | LGALSL |
| 11 | 62,775,000 | 62,925,000 | 838 | 424 | -0.572961833 | AFTPH,LGALSL |
| 11 | 62,850,000 | 63,000,000 | 839 | 274 | 0.693519918 | AFTPH,SERTAD2 |
| 11 | 62,925,000 | 63,075,000 | 840 | 284 | 0.698447469 | AFTPH,SERTAD2 |
| 11 | 63,000,000 | 63,150,000 | 841 | 351 | -0.053893793 | |
| 11 | 63,075,000 | 63,225,000 | 842 | 433 | -0.194393116 | |
| 11 | 63,150,000 | 63,300,000 | 843 | 585 | 0.135636441 | TMSB4X |
| 11 | 63,225,000 | 63,375,000 | 844 | 660 | -0.04778092 | SLC1A4,TMSB4X |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 11 | 63,300,000 | 63,450,000 | 845 | 626 | 0.123491744 | CEP68,RAB1A,SLC1A4,TMSB4X |
| 11 | 63,375,000 | 63,525,000 | 846 | 717 | -0.350471435 | CEP68,RAB1A,TMSB4X |
| 11 | 63,450,000 | 63,600,000 | 847 | 475 | -0.830309607 | ACTR2,RAB1A |
| 11 | 63,525,000 | 63,675,000 | 848 | 264 | 0.092577711 | ACTR2,SPRED2 |
| 11 | 63,600,000 | 63,750,000 | 849 | 332 | -0.407352494 | SPRED2 |
| 11 | 63,675,000 | 63,825,000 | 850 | 370 | -0.290813958 | |
| 11 | 63,750,000 | 63,900,000 | 851 | 743 | 1.076250177 | |
| 11 | 63,825,000 | 63,975,000 | 852 | 958 | 1.24601105 | |
| 11 | 63,900,000 | 64,050,000 | 853 | 633 | 1.111193113 | |
| 11 | 63,975,000 | 64,125,000 | 854 | 441 | 0.087603898 | |
| 11 | 64,050,000 | 64,200,000 | 855 | 754 | -0.641086028 | |
| 11 | 64,125,000 | 64,275,000 | 856 | 1070 | 0.338607951 | |
| 11 | 64,200,000 | 64,350,000 | 857 | 968 | 1.184466129 | |
| 11 | 64,275,000 | 64,425,000 | 858 | 719 | 1.08635123 | |
| 11 | 64,350,000 | 64,500,000 | 859 | 663 | 1.000707353 | |
| 11 | 64,425,000 | 64,575,000 | 860 | 580 | 0.157522282 | |
| 11 | 64,500,000 | 64,650,000 | 861 | 638 | -0.546251739 | |
| 11 | 64,575,000 | 64,725,000 | 862 | 563 | -0.518761046 | |
| 11 | 64,650,000 | 64,800,000 | 863 | 284 | 0.30476485 | MEIS1 |
| 11 | 64,725,000 | 64,875,000 | 864 | 331 | 1.018748753 | MEIS1 |
| 11 | 64,800,000 | 64,950,000 | 865 | 373 | 1.058235958 | MEIS1 |
| 11 | 64,875,000 | 65,025,000 | 866 | 334 | 0.955275716 | MEIS1 |
| 11 | 64,950,000 | 65,100,000 | 867 | 328 | 0.01325303 | |
| 11 | 65,025,000 | 65,175,000 | 868 | 383 | -0.607452514 | |
| 11 | 65,100,000 | 65,250,000 | 869 | 518 | -0.596478667 | |
| 11 | 65,175,000 | 65,325,000 | 870 | 698 | 0.308487246 | |
| 11 | 65,250,000 | 65,400,000 | 871 | 666 | 1.018154816 | |
| 11 | 65,325,000 | 65,475,000 | 872 | 572 | 0.474094629 | |
| 11 | 65,400,000 | 65,550,000 | 873 | 742 | 0.719001833 | ENSBTAG00000046310 |
| 11 | 65,475,000 | 65,625,000 | 874 | 798 | 1.052134773 | ENSBTAG00000046310 |
| 11 | 65,550,000 | 65,700,000 | 875 | 652 | 0.201466518 | |
| 11 | 65,625,000 | 65,775,000 | 876 | 817 | -0.752100204 | |
| 11 | 65,700,000 | 65,850,000 | 877 | 828 | -1.307842969 | ETAA1 |
| 11 | 65,775,000 | 65,925,000 | 878 | 522 | -1.650657937 | ETAA1 |
| 11 | 65,850,000 | 66,000,000 | 879 | 616 | -1.26875902 | |
| 11 | 65,925,000 | 66,075,000 | 880 | 903 | 0.05309929 | |
| 11 | 66,000,000 | 66,150,000 | 881 | 993 | 0.360479993 | |
| 11 | 66,075,000 | 66,225,000 | 882 | 947 | -0.171418103 | |
| 11 | 66,150,000 | 66,300,000 | 883 | 842 | 0.605881257 | |
| 11 | 66,225,000 | 66,375,000 | 884 | 724 | 0.97312236 | |
| 11 | 66,300,000 | 66,450,000 | 885 | 853 | 0.927539376 | |
| 11 | 66,375,000 | 66,525,000 | 886 | 1090 | 0.973252997 | C1D |
| 11 | 66,450,000 | 66,600,000 | 887 | 1196 | 0.466943361 | C1D,PNO1,PPP3R1,WDR92 |
| 11 | 66,525,000 | 66,675,000 | 888 | 924 | 1.0389926 | PNO1,PPP3R1,WDR92 |
| 11 | 66,600,000 | 66,750,000 | 889 | 547 | 1.309387262 | CNRIP1,PPP3R1 |
| 11 | 66,675,000 | 66,825,000 | 890 | 548 | 1.130135812 | CNRIP1,PLEK |
| 11 | 66,750,000 | 66,900,000 | 891 | 701 | 0.799756051 | APLF,FBXO48,PLEK |
| 11 | 66,825,000 | 66,975,000 | 892 | 919 | 0.570482088 | APLF,FBXO48 |
| 11 | 66,900,000 | 67,050,000 | 893 | 879 | 0.64819581 | APLF,PROKR1 |
| 11 | 66,975,000 | 67,125,000 | 894 | 535 | 0.46240929 | ARHGAP25,PROKR1 |
| 11 | 67,050,000 | 67,200,000 | 895 | 403 | 0.044850141 | ARHGAP25,BMP10 |
| 11 | 67,125,000 | 67,275,000 | 896 | 539 | -2.917654827 | ARHGAP25,BMP10,GKN2,ENSBTAG00000038835 |
| 11 | 67,200,000 | 67,350,000 | 897 | 472 | -3.943424483 | ANTXR1,FOV,GKN2,ENSBTAG00000038835 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|------------------------------------|
| 11 | 67,275,000 | 67,425,000 | 898 | 598 | -0.424401216 | ANTXR1,FOV |
| 11 | 67,350,000 | 67,500,000 | 899 | 982 | 0.655872143 | ANTXR1 |
| 11 | 67,425,000 | 67,575,000 | 900 | 980 | 0.953768661 | ANTXR1 |
| 11 | 67,500,000 | 67,650,000 | 901 | 773 | 0.363715129 | ANTXR1 |
| 11 | 67,575,000 | 67,725,000 | 902 | 655 | 0.497839658 | ANTXR1,GFPT1 |
| 11 | 67,650,000 | 67,800,000 | 903 | 885 | 1.314932743 | GFPT1,NFU1 |
| 11 | 67,725,000 | 67,875,000 | 904 | 783 | 1.281879772 | AAK1,GFPT1,NFU1,ENSBTAG00000047822 |
| 11 | 67,800,000 | 67,950,000 | 905 | 504 | 0.994592657 | AAK1,ENSBTAG00000047822 |
| 11 | 67,875,000 | 68,025,000 | 906 | 692 | 0.685509245 | AAK1 |
| 11 | 67,950,000 | 68,100,000 | 907 | 725 | -0.269649295 | AAK1,ANXA4 |
| 11 | 68,025,000 | 68,175,000 | 908 | 465 | -0.452863128 | ANXA4,GMCL1 |
| 11 | 68,100,000 | 68,250,000 | 909 | 239 | -0.996340164 | ANXA4,GMCL1,MXD1,SNRNP27 |
| 11 | 68,175,000 | 68,325,000 | 910 | 229 | -2.691150631 | GMCL1,MXD1,SNRNP27 |
| 11 | 68,250,000 | 68,400,000 | 911 | 273 | -2.142420432 | MXD1,PCBP1 |
| 11 | 68,325,000 | 68,475,000 | 912 | 301 | -3.342977057 | C2orf42,PCBP1 |
| 11 | 68,400,000 | 68,550,000 | 913 | 381 | -1.474952769 | C2orf42,TIA1 |
| 11 | 68,475,000 | 68,625,000 | 914 | 414 | 0.880177449 | C2orf42,PCYOX1,TIA1 |
| 11 | 68,550,000 | 68,700,000 | 915 | 611 | 1.2127219 | CAPN14,MGC139254,PCYOX1 |
| 11 | 68,625,000 | 68,775,000 | 916 | 893 | 0.494965834 | CAPN14,GALNT14,MGC139254 |
| 11 | 68,700,000 | 68,850,000 | 917 | 665 | -0.135278718 | CAPN14,GALNT14 |
| 11 | 68,775,000 | 68,925,000 | 918 | 394 | 0.085438571 | GALNT14 |
| 11 | 68,850,000 | 69,000,000 | 919 | 691 | -1.895884549 | GALNT14 |
| 11 | 68,925,000 | 69,075,000 | 920 | 841 | -2.583877434 | CAPN13,GALNT14 |
| 11 | 69,000,000 | 69,150,000 | 921 | 726 | -0.627431457 | CAPN13 |
| 11 | 69,075,000 | 69,225,000 | 922 | 792 | -1.638002213 | CAPN13,LCLAT1 |
| 11 | 69,150,000 | 69,300,000 | 923 | 860 | -3.357277489 | LCLAT1 |
| 11 | 69,225,000 | 69,375,000 | 924 | 646 | -1.744173811 | LCLAT1 |
| 11 | 69,300,000 | 69,450,000 | 925 | 408 | 0.567398315 | LCLAT1 |
| 11 | 69,375,000 | 69,525,000 | 926 | 484 | -1.13718317 | |
| 11 | 69,450,000 | 69,600,000 | 927 | 738 | -3.303460724 | LBH |
| 11 | 69,525,000 | 69,675,000 | 928 | 675 | -2.811983079 | LBH |
| 11 | 69,600,000 | 69,750,000 | 929 | 359 | -0.068359444 | LBH,YPEL5 |
| 11 | 69,675,000 | 69,825,000 | 930 | 255 | 0.171872352 | YPEL5 |
| 11 | 69,750,000 | 69,900,000 | 931 | 266 | 0.406923173 | |
| 11 | 69,825,000 | 69,975,000 | 932 | 293 | 0.396138962 | |
| 11 | 69,900,000 | 70,050,000 | 933 | 319 | -1.152998433 | |
| 11 | 69,975,000 | 70,125,000 | 934 | 546 | -3.348997877 | |
| 11 | 70,050,000 | 70,200,000 | 935 | 811 | -2.132467361 | |
| 11 | 70,125,000 | 70,275,000 | 936 | 804 | -0.996956316 | |
| 11 | 70,200,000 | 70,350,000 | 937 | 681 | -2.195700217 | |
| 11 | 70,275,000 | 70,425,000 | 938 | 625 | -2.163299784 | |
| 11 | 70,350,000 | 70,500,000 | 939 | 721 | -1.014059843 | |
| 11 | 70,425,000 | 70,575,000 | 940 | 757 | -2.1401478 | ALK |
| 11 | 70,500,000 | 70,650,000 | 941 | 673 | -1.536090503 | ALK |
| 11 | 70,575,000 | 70,725,000 | 942 | 485 | 0.567901211 | ALK,CLIP4 |
| 11 | 70,650,000 | 70,800,000 | 943 | 397 | 1.30377048 | C2orf71,CLIP4,FAM179A |
| 11 | 70,725,000 | 70,875,000 | 944 | 473 | 1.177626631 | C2orf71,CLIP4,FAM179A,WDR43 |
| 11 | 70,800,000 | 70,950,000 | 945 | 459 | -0.164753725 | FAM179A,SPDYA,WDR43 |
| 11 | 70,875,000 | 71,025,000 | 946 | 330 | -2.235578857 | PPP1CB,SPDYA,WDR43 |
| 11 | 70,950,000 | 71,100,000 | 947 | 252 | -2.946093623 | PPP1CB,SPDYA |
| 11 | 71,025,000 | 71,175,000 | 948 | 378 | -2.214762346 | PLB1 |
| 11 | 71,100,000 | 71,250,000 | 949 | 646 | -0.476538909 | PLB1 |
| 11 | 71,175,000 | 71,325,000 | 950 | 842 | -2.797701094 | PLB1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 11 | 71,250,000 | 71,400,000 | 951 | 552 | -4.072154542 | FOSL2 |
| 11 | 71,325,000 | 71,475,000 | 952 | 311 | -0.740496167 | BRE,FOSL2 |
| 11 | 71,400,000 | 71,550,000 | 953 | 442 | -0.876351231 | BRE |
| 11 | 71,475,000 | 71,625,000 | 954 | 593 | -0.006264667 | BRE |
| 11 | 71,550,000 | 71,700,000 | 955 | 774 | 0.451077769 | BRE |
| 11 | 71,625,000 | 71,775,000 | 956 | 762 | 0.479590914 | BRE |
| 11 | 71,700,000 | 71,850,000 | 957 | 637 | 0.166761084 | BRE,RBKS |
| 11 | 71,775,000 | 71,925,000 | 958 | 731 | -0.337975838 | BRE,RBKS |
| 11 | 71,850,000 | 72,000,000 | 959 | 707 | -1.291913963 | RBKS,ENSBTAG00000018680 |
| 11 | 71,925,000 | 72,075,000 | 960 | 575 | -1.496650635 | GPN1,SUPT7L,ZNF512,ENSBTAG00000018680 |
| 11 | 72,000,000 | 72,150,000 | 961 | 570 | -0.588673939 | C2orf16,GPN1,SUPT7L,ZNF512,ENSBTAG00000018680 |
| 11 | 72,075,000 | 72,225,000 | 962 | 560 | -0.352594851 | C2orf16,FNDC4,GCKR,IFT172,KRTCAP3,NRBP1,ZNF512 |
| 11 | 72,150,000 | 72,300,000 | 963 | 496 | -0.019641146 | EIF2B4,FNDC4,GCKR,GTF3C2,IFT172,KRTCAP3,NRBP1,PPM1G,SNX17,ZNF513 |
| 11 | 72,225,000 | 72,375,000 | 964 | 427 | 0.576488961 | DNAJC5G,EIF2B4,GTF3C2,MPV17,NRBP1,PPM1G,SLC30A3,SNX17,TRIM54,UCN,ZNF513 |
| 11 | 72,300,000 | 72,450,000 | 965 | 523 | 0.861629659 | ATRAID,CAD,DNAJC5G,GTF3C2,MPV17,SLC30A3,SLC5A6,TRIM54,UCN |
| 11 | 72,375,000 | 72,525,000 | 966 | 608 | 0.957475894 | ABHD1,ATRAID,CAD,CGREF1,PRES,PRR30,SLC5A6,TCF23 |
| 11 | 72,450,000 | 72,600,000 | 967 | 545 | 0.380094331 | ABHD1,AGBL5,CGREF1,EMILIN1,KHK,MAPRE3,PRES,PRR30,TCF23,TMEM214 |
| 11 | 72,525,000 | 72,675,000 | 968 | 713 | 0.328172579 | AGBL5,DPYSL5,EMILIN1,KHK,MAPRE3,TMEM214 |
| 11 | 72,600,000 | 72,750,000 | 969 | 835 | 0.053798628 | DPYSL5,MAPRE3 |
| 11 | 72,675,000 | 72,825,000 | 970 | 842 | -0.080140399 | DPYSL5,MGC139367,ENSBTAG00000023938 |
| 11 | 72,750,000 | 72,900,000 | 971 | 730 | 0.212188646 | DPYSL5,KCNK3,MGC139367,ENSBTAG00000023938 |
| 11 | 72,825,000 | 72,975,000 | 972 | 646 | 0.654707335 | C11H2orf70,CIB4,KCNK3 |
| 11 | 72,900,000 | 73,050,000 | 973 | 806 | 0.492400397 | C11H2orf70,CIB4,OTOF |
| 11 | 72,975,000 | 73,125,000 | 974 | 663 | 0.072841407 | C11H2orf70,DRC1,OTOF |
| 11 | 73,050,000 | 73,200,000 | 975 | 503 | 0.29629771 | DRC1,EPT1,GPR113,IER3IP1,OTOF |
| 11 | 73,125,000 | 73,275,000 | 976 | 434 | -0.030413841 | EPT1,GPR113,HADHA,HADHB,IER3IP1 |
| 11 | 73,200,000 | 73,350,000 | 977 | 385 | -1.007247878 | GAREML,GPR113,HADHA,HADHB,RAB10 |
| 11 | 73,275,000 | 73,425,000 | 978 | 331 | -0.170100564 | GAREML,HADHA,RAB10 |
| 11 | 73,350,000 | 73,500,000 | 979 | 261 | 0.618602653 | KIF3C,RAB10 |
| 11 | 73,425,000 | 73,575,000 | 980 | 316 | 0.296005331 | KIF3C |
| 11 | 73,500,000 | 73,650,000 | 981 | 295 | -1.082629235 | ASXL2 |
| 11 | 73,575,000 | 73,725,000 | 982 | 251 | -2.324614258 | ASXL2,DTNB |
| 11 | 73,650,000 | 73,800,000 | 983 | 427 | 0.900796362 | DTNB |
| 11 | 73,725,000 | 73,875,000 | 984 | 554 | 1.212795102 | DTNB |
| 11 | 73,800,000 | 73,950,000 | 985 | 436 | 1.144385898 | DTNB |
| 11 | 73,875,000 | 74,025,000 | 986 | 397 | -0.141075819 | DTNB |
| 11 | 73,950,000 | 74,100,000 | 987 | 422 | -0.802221177 | DNMT3A |
| 11 | 74,025,000 | 74,175,000 | 988 | 860 | 0.339076303 | DNMT3A,EFR3B,POMC |
| 11 | 74,100,000 | 74,250,000 | 989 | 1038 | 0.785575896 | EFR3B,POMC |
| 11 | 74,175,000 | 74,325,000 | 990 | 425 | 0.758631151 | DNAJC27 |
| 11 | 74,250,000 | 74,400,000 | 991 | 285 | -0.660938038 | ADCY3,DNAJC27 |
| 11 | 74,325,000 | 74,475,000 | 992 | 481 | -1.045827623 | ADCY3,CENPO,DNAJC27 |
| 11 | 74,400,000 | 74,550,000 | 993 | 387 | -1.413977044 | ADCY3,CENPO,NCOA1,PTRHD1,ENSBTAG00000047575 |
| 11 | 74,475,000 | 74,625,000 | 994 | 268 | -1.428810951 | CENPO,NCOA1,PTRHD1,ENSBTAG00000047575 |
| 11 | 74,550,000 | 74,700,000 | 995 | 251 | -0.609800633 | NCOA1 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 11 | 74,625,000 | 74,775,000 | 996 | 258 | -0.446222138 | |
| 11 | 74,700,000 | 74,850,000 | 997 | 254 | -0.910207854 | |
| 11 | 74,775,000 | 74,925,000 | 998 | 198 | -0.940458924 | ITSN2 |
| 11 | 74,850,000 | 75,000,000 | 999 | 148 | -1.674699273 | FAM228A,FAM228B,ITSN2 |
| 11 | 74,925,000 | 75,075,000 | 1000 | 234 | -1.231139274 | C2orf44,FAM228A,FAM228B,FKBP1B,ITSN2,PFN4,SF3B14,TP53I3 |
| 11 | 75,000,000 | 75,150,000 | 1001 | 466 | -0.640218172 | ATAD2B,C2orf44,FAM228B,FKBP1B,MFSD2B,PFN4,SF3B14,TP53I3,UBXN2A |
| 11 | 75,075,000 | 75,225,000 | 1002 | 689 | -0.710951265 | ATAD2B,C2orf44,MFSD2B,UBXN2A |
| 11 | 75,150,000 | 75,300,000 | 1003 | 708 | -0.767344225 | ATAD2B,KLHL29 |
| 11 | 75,225,000 | 75,375,000 | 1004 | 941 | 0.082445031 | ATAD2B,KLHL29 |
| 11 | 75,300,000 | 75,450,000 | 1005 | 915 | -0.529811287 | KLHL29 |
| 11 | 75,375,000 | 75,525,000 | 1006 | 819 | -0.570822906 | KLHL29 |
| 11 | 75,450,000 | 75,600,000 | 1007 | 1012 | 0.207715864 | KLHL29 |
| 11 | 75,525,000 | 75,675,000 | 1008 | 674 | -0.825336101 | KLHL29 |
| 11 | 75,600,000 | 75,750,000 | 1009 | 765 | -1.623156351 | KLHL29 |
| 11 | 75,675,000 | 75,825,000 | 1010 | 910 | -2.256883827 | |
| 11 | 75,750,000 | 75,900,000 | 1011 | 535 | -3.185236567 | |
| 11 | 75,825,000 | 75,975,000 | 1012 | 587 | -2.3285941 | |
| 11 | 75,900,000 | 76,050,000 | 1013 | 950 | -0.95829579 | |
| 11 | 75,975,000 | 76,125,000 | 1014 | 904 | -0.254991935 | |
| 11 | 76,050,000 | 76,200,000 | 1015 | 509 | -0.360537668 | |
| 11 | 76,125,000 | 76,275,000 | 1016 | 344 | -0.936897173 | |
| 11 | 76,200,000 | 76,350,000 | 1017 | 527 | 0.762253594 | |
| 11 | 76,275,000 | 76,425,000 | 1018 | 652 | 1.030819469 | |
| 11 | 76,350,000 | 76,500,000 | 1019 | 661 | 0.369031303 | |
| 11 | 76,425,000 | 76,575,000 | 1020 | 925 | -0.402542615 | |
| 11 | 76,500,000 | 76,650,000 | 1021 | 895 | -0.310339133 | |
| 11 | 76,575,000 | 76,725,000 | 1022 | 867 | -0.378094952 | |
| 11 | 76,650,000 | 76,800,000 | 1023 | 951 | -0.376077039 | |
| 11 | 76,725,000 | 76,875,000 | 1024 | 907 | 0.233846212 | |
| 11 | 76,800,000 | 76,950,000 | 1025 | 1271 | 0.438095223 | |
| 11 | 76,875,000 | 77,025,000 | 1026 | 1365 | 0.155041767 | |
| 11 | 76,950,000 | 77,100,000 | 1027 | 902 | -0.380447077 | |
| 11 | 77,025,000 | 77,175,000 | 1028 | 614 | -0.521392044 | |
| 11 | 77,100,000 | 77,250,000 | 1029 | 944 | 0.549831063 | |
| 11 | 77,175,000 | 77,325,000 | 1030 | 1018 | 0.580372361 | |
| 11 | 77,250,000 | 77,400,000 | 1031 | 810 | -0.138313503 | |
| 11 | 77,325,000 | 77,475,000 | 1032 | 806 | -0.055094187 | |
| 11 | 77,400,000 | 77,550,000 | 1033 | 738 | 0.546011854 | |
| 11 | 77,475,000 | 77,625,000 | 1034 | 820 | 0.870368128 | |
| 11 | 77,550,000 | 77,700,000 | 1035 | 956 | 0.536623606 | ENSBTAG00000030834 |
| 11 | 77,625,000 | 77,775,000 | 1036 | 970 | -0.310675202 | ENSBTAG00000030834 |
| 11 | 77,700,000 | 77,850,000 | 1037 | 1072 | -0.301736773 | |
| 11 | 77,775,000 | 77,925,000 | 1038 | 1125 | 0.779664689 | |
| 11 | 77,850,000 | 78,000,000 | 1039 | 815 | 1.00361852 | APOB |
| 11 | 77,925,000 | 78,075,000 | 1040 | 585 | 0.687409905 | APOB |
| 11 | 78,000,000 | 78,150,000 | 1041 | 599 | 0.452242913 | APOB |
| 11 | 78,075,000 | 78,225,000 | 1042 | 674 | 0.404846005 | C2ORF43 |
| 11 | 78,150,000 | 78,300,000 | 1043 | 665 | 0.371949325 | C2ORF43,GDF7,HS1BP3 |
| 11 | 78,225,000 | 78,375,000 | 1044 | 809 | 0.594596509 | C2ORF43,GDF7,HS1BP3 |
| 11 | 78,300,000 | 78,450,000 | 1045 | 902 | 0.489102302 | HS1BP3 |
| 11 | 78,375,000 | 78,525,000 | 1046 | 537 | -0.134946673 | RHOB,ENSBTAG00000016270 |

| | | | | | | |
|----|------------|------------|------|------|--------------|------------------------------|
| 11 | 78,450,000 | 78,600,000 | 1047 | 351 | -0.48104257 | PUM2,RHOB,ENSBTAG00000016270 |
| 11 | 78,525,000 | 78,675,000 | 1048 | 398 | -0.567412295 | PUM2 |
| 11 | 78,600,000 | 78,750,000 | 1049 | 435 | -1.497895167 | PUM2,SDC1 |
| 11 | 78,675,000 | 78,825,000 | 1050 | 422 | -1.620131278 | SDC1 |
| 11 | 78,750,000 | 78,900,000 | 1051 | 315 | 0.108039188 | LAPTM4A,MATN3 |
| 11 | 78,825,000 | 78,975,000 | 1052 | 379 | -0.609010303 | LAPTM4A,MATN3,TTC32 |
| 11 | 78,900,000 | 79,050,000 | 1053 | 437 | -1.408029771 | MATN3,TTC32 |
| 11 | 78,975,000 | 79,125,000 | 1054 | 459 | -0.797112774 | TTC32 |
| 11 | 79,050,000 | 79,200,000 | 1055 | 573 | -0.434414872 | |
| 11 | 79,125,000 | 79,275,000 | 1056 | 541 | -0.213384751 | |
| 11 | 79,200,000 | 79,350,000 | 1057 | 539 | -1.291485983 | |
| 11 | 79,275,000 | 79,425,000 | 1058 | 633 | -1.160799625 | |
| 11 | 79,350,000 | 79,500,000 | 1059 | 698 | -0.053818048 | OSR1 |
| 11 | 79,425,000 | 79,575,000 | 1060 | 566 | 0.439718388 | OSR1 |
| 11 | 79,500,000 | 79,650,000 | 1061 | 472 | -0.170828925 | |
| 11 | 79,575,000 | 79,725,000 | 1062 | 700 | -0.967510454 | |
| 11 | 79,650,000 | 79,800,000 | 1063 | 836 | -0.067643184 | |
| 11 | 79,725,000 | 79,875,000 | 1064 | 683 | -0.038361489 | |
| 11 | 79,800,000 | 79,950,000 | 1065 | 737 | -0.106718054 | |
| 11 | 79,875,000 | 80,025,000 | 1066 | 777 | 0.26698965 | |
| 11 | 79,950,000 | 80,100,000 | 1067 | 487 | -0.039254089 | |
| 11 | 80,025,000 | 80,175,000 | 1068 | 567 | -1.356074435 | |
| 11 | 80,100,000 | 80,250,000 | 1069 | 636 | -0.568443672 | ENSBTAG00000005270 |
| 11 | 80,175,000 | 80,325,000 | 1070 | 557 | 0.186092507 | RDH14,ENSBTAG00000005270 |
| 11 | 80,250,000 | 80,400,000 | 1071 | 479 | -0.271493236 | RDH14,ENSBTAG00000005270 |
| 11 | 80,325,000 | 80,475,000 | 1072 | 666 | -0.593094784 | |
| 11 | 80,400,000 | 80,550,000 | 1073 | 582 | -0.595859842 | |
| 11 | 80,475,000 | 80,625,000 | 1074 | 483 | -0.419239466 | |
| 11 | 80,550,000 | 80,700,000 | 1075 | 861 | -0.536711668 | |
| 11 | 80,625,000 | 80,775,000 | 1076 | 836 | -1.165401773 | |
| 11 | 80,700,000 | 80,850,000 | 1077 | 973 | -0.891480347 | KCNS3 |
| 11 | 80,775,000 | 80,925,000 | 1078 | 891 | 0.128120113 | KCNS3 |
| 11 | 80,850,000 | 81,000,000 | 1079 | 395 | 0.549496098 | GEN1,MSGN1 |
| 11 | 80,925,000 | 81,075,000 | 1080 | 230 | 0.949581898 | GEN1,MSGN1,SMC6 |
| 11 | 81,000,000 | 81,150,000 | 1081 | 296 | 1.466072574 | SMC6,VSNL1 |
| 11 | 81,075,000 | 81,225,000 | 1082 | 809 | 1.444462333 | VSNL1 |
| 11 | 81,150,000 | 81,300,000 | 1083 | 1195 | 1.424044718 | RAD51AP2,VSNL1 |
| 11 | 81,225,000 | 81,375,000 | 1084 | 1019 | 1.453255246 | RAD51AP2 |
| 11 | 81,300,000 | 81,450,000 | 1085 | 926 | 1.444554321 | |
| 11 | 81,375,000 | 81,525,000 | 1086 | 1172 | 1.026412157 | |
| 11 | 81,450,000 | 81,600,000 | 1087 | 1249 | 1.017312935 | |
| 11 | 81,525,000 | 81,675,000 | 1088 | 1459 | 0.748765377 | |
| 11 | 81,600,000 | 81,750,000 | 1089 | 1593 | 0.678421393 | |
| 11 | 81,675,000 | 81,825,000 | 1090 | 1282 | 0.301879217 | |
| 11 | 81,750,000 | 81,900,000 | 1091 | 1132 | -0.969865749 | |
| 11 | 81,825,000 | 81,975,000 | 1092 | 957 | -0.702036354 | |
| 11 | 81,900,000 | 82,050,000 | 1093 | 958 | 0.689640766 | FAM49A |
| 11 | 81,975,000 | 82,125,000 | 1094 | 990 | 0.977645986 | FAM49A |
| 11 | 82,050,000 | 82,200,000 | 1095 | 668 | 0.885642827 | |
| 11 | 82,125,000 | 82,275,000 | 1096 | 504 | 0.218896754 | |
| 11 | 82,200,000 | 82,350,000 | 1097 | 1046 | 0.443651751 | |
| 11 | 82,275,000 | 82,425,000 | 1098 | 1265 | 0.854286679 | |
| 11 | 82,350,000 | 82,500,000 | 1099 | 967 | 0.854642685 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------|
| 11 | 82,425,000 | 82,575,000 | 1100 | 868 | 0.452026408 | |
| 11 | 82,500,000 | 82,650,000 | 1101 | 739 | -0.713027498 | |
| 11 | 82,575,000 | 82,725,000 | 1102 | 568 | -1.131750412 | MYCN |
| 11 | 82,650,000 | 82,800,000 | 1103 | 571 | 0.382776201 | MYCN |
| 11 | 82,725,000 | 82,875,000 | 1104 | 1058 | 1.195069212 | DDX1 |
| 11 | 82,800,000 | 82,950,000 | 1105 | 1284 | 1.402284427 | DDX1,NBAS |
| 11 | 82,875,000 | 83,025,000 | 1106 | 1344 | 1.127972432 | NBAS |
| 11 | 82,950,000 | 83,100,000 | 1107 | 1106 | 1.069599532 | NBAS |
| 11 | 83,025,000 | 83,175,000 | 1108 | 898 | 0.214866431 | NBAS |
| 11 | 83,100,000 | 83,250,000 | 1109 | 1049 | -0.529537106 | NBAS |
| 11 | 83,175,000 | 83,325,000 | 1110 | 852 | -0.506126542 | NBAS |
| 11 | 83,250,000 | 83,400,000 | 1111 | 737 | -0.353057164 | |
| 11 | 83,325,000 | 83,475,000 | 1112 | 901 | -0.444104916 | |
| 11 | 83,400,000 | 83,550,000 | 1113 | 1208 | -0.355888041 | |
| 11 | 83,475,000 | 83,625,000 | 1114 | 915 | -0.455950953 | |
| 11 | 83,550,000 | 83,700,000 | 1115 | 555 | -0.281761427 | FAM84A |
| 11 | 83,625,000 | 83,775,000 | 1116 | 599 | -0.116976775 | FAM84A |
| 11 | 83,700,000 | 83,850,000 | 1117 | 729 | -1.117611989 | |
| 11 | 83,775,000 | 83,925,000 | 1118 | 807 | -1.024971764 | |
| 11 | 83,850,000 | 84,000,000 | 1119 | 984 | 0.467924779 | |
| 11 | 83,925,000 | 84,075,000 | 1120 | 1085 | 1.253312885 | |
| 11 | 84,000,000 | 84,150,000 | 1121 | 620 | 1.262871617 | |
| 11 | 84,075,000 | 84,225,000 | 1122 | 416 | 0.760484206 | |
| 11 | 84,150,000 | 84,300,000 | 1123 | 561 | 0.687224758 | |
| 11 | 84,225,000 | 84,375,000 | 1124 | 717 | 0.791736691 | |
| 11 | 84,300,000 | 84,450,000 | 1125 | 1006 | 1.001330949 | |
| 11 | 84,375,000 | 84,525,000 | 1126 | 934 | -0.074546985 | |
| 11 | 84,450,000 | 84,600,000 | 1127 | 709 | -0.637769191 | |
| 11 | 84,525,000 | 84,675,000 | 1128 | 642 | 0.046251971 | |
| 11 | 84,600,000 | 84,750,000 | 1129 | 784 | -0.317628253 | |
| 11 | 84,675,000 | 84,825,000 | 1130 | 954 | 0.096474153 | |
| 11 | 84,750,000 | 84,900,000 | 1131 | 1100 | 1.01036322 | |
| 11 | 84,825,000 | 84,975,000 | 1132 | 1193 | 1.351256297 | |
| 11 | 84,900,000 | 85,050,000 | 1133 | 1144 | 1.10990635 | |
| 11 | 84,975,000 | 85,125,000 | 1134 | 929 | 0.705647063 | |
| 11 | 85,050,000 | 85,200,000 | 1135 | 604 | 0.566310481 | |
| 11 | 85,125,000 | 85,275,000 | 1136 | 598 | 0.259938407 | TRIB2 |
| 11 | 85,200,000 | 85,350,000 | 1137 | 750 | 0.130407683 | TRIB2 |
| 11 | 85,275,000 | 85,425,000 | 1138 | 836 | 0.614937326 | |
| 11 | 85,350,000 | 85,500,000 | 1139 | 720 | 1.001600813 | |
| 11 | 85,425,000 | 85,575,000 | 1140 | 617 | 0.816551776 | |
| 11 | 85,500,000 | 85,650,000 | 1141 | 498 | 0.213955908 | |
| 11 | 85,575,000 | 85,725,000 | 1142 | 621 | -0.059128797 | |
| 11 | 85,650,000 | 85,800,000 | 1143 | 1077 | -0.645991642 | |
| 11 | 85,725,000 | 85,875,000 | 1144 | 961 | -0.871862837 | |
| 11 | 85,800,000 | 85,950,000 | 1145 | 663 | -1.036485528 | |
| 11 | 85,875,000 | 86,025,000 | 1146 | 618 | -1.110117608 | |
| 11 | 85,950,000 | 86,100,000 | 1147 | 612 | -0.530518566 | LPIN1 |
| 11 | 86,025,000 | 86,175,000 | 1148 | 835 | 0.096638414 | LPIN1 |
| 11 | 86,100,000 | 86,250,000 | 1149 | 842 | 0.095736126 | GREB1,LPIN1,NTSR2 |
| 11 | 86,175,000 | 86,325,000 | 1150 | 686 | -1.055734157 | GREB1,NTSR2 |
| 11 | 86,250,000 | 86,400,000 | 1151 | 784 | -0.819133017 | E2F6,GREB1 |
| 11 | 86,325,000 | 86,475,000 | 1152 | 784 | 0.437629292 | E2F6 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 86,400,000 | 86,550,000 | 1153 | 563 | 0.465901937 | ROCK2,ENSBTAG00000048065 |
| 11 | 86,475,000 | 86,625,000 | 1154 | 553 | 0.154238971 | C11H2orf50,PQLC3,ROCK2,ENSBTAG00000048065 |
| 11 | 86,550,000 | 86,700,000 | 1155 | 861 | 0.233209898 | C11H2orf50,PQLC3,ROCK2 |
| 11 | 86,625,000 | 86,775,000 | 1156 | 957 | 0.308563939 | KCNF1 |
| 11 | 86,700,000 | 86,850,000 | 1157 | 682 | 0.638581804 | KCNF1,PDIA6 |
| 11 | 86,775,000 | 86,925,000 | 1158 | 637 | 0.887743882 | ATP6V1C2,PDIA6 |
| 11 | 86,850,000 | 87,000,000 | 1159 | 880 | 0.242682549 | ATP6V1C2,NOL10,PDIA6 |
| 11 | 86,925,000 | 87,075,000 | 1160 | 842 | -0.404937317 | NOL10 |
| 11 | 87,000,000 | 87,150,000 | 1161 | 603 | -0.440620228 | NOL10 |
| 11 | 87,075,000 | 87,225,000 | 1162 | 864 | -0.824074909 | HPCAL1,ODC1 |
| 11 | 87,150,000 | 87,300,000 | 1163 | 1498 | -2.799592617 | HPCAL1,ODC1 |
| 11 | 87,225,000 | 87,375,000 | 1164 | 1822 | -1.618892315 | HPCAL1 |
| 11 | 87,300,000 | 87,450,000 | 1165 | 1615 | -0.110385762 | HPCAL1 |
| 11 | 87,375,000 | 87,525,000 | 1166 | 983 | 0.014704332 | RRM2 |
| 11 | 87,450,000 | 87,600,000 | 1167 | 494 | 0.780351683 | GRHL1,RRM2,TIEG2 |
| 11 | 87,525,000 | 87,675,000 | 1168 | 354 | 0.534133844 | GRHL1,TAF1B,TIEG2 |
| 11 | 87,600,000 | 87,750,000 | 1169 | 415 | 0.668275156 | GRHL1,TAF1B |
| 11 | 87,675,000 | 87,825,000 | 1170 | 542 | 0.73921847 | TAF1B |
| 11 | 87,750,000 | 87,900,000 | 1171 | 511 | 0.924788177 | ADAM17,YWHAQ |
| 11 | 87,825,000 | 87,975,000 | 1172 | 802 | -4.593652844 | ADAM17,CPSF3,IAH1,YWHAQ |
| 11 | 87,900,000 | 88,050,000 | 1173 | 1062 | -4.483389402 | ADAM17,ASAP2,CPSF3,IAH1,ITGB1BP1 |
| 11 | 87,975,000 | 88,125,000 | 1174 | 1045 | -2.904547285 | ASAP2,CPSF3,ITGB1BP1 |
| 11 | 88,050,000 | 88,200,000 | 1175 | 1205 | -1.335559942 | ASAP2 |
| 11 | 88,125,000 | 88,275,000 | 1176 | 935 | -0.203701447 | |
| 11 | 88,200,000 | 88,350,000 | 1177 | 536 | 0.871172462 | |
| 11 | 88,275,000 | 88,425,000 | 1178 | 603 | 1.186633639 | MBOAT2 |
| 11 | 88,350,000 | 88,500,000 | 1179 | 882 | 1.075960987 | KIDINS220,MBOAT2 |
| 11 | 88,425,000 | 88,575,000 | 1180 | 740 | 1.07400242 | KIDINS220,MBOAT2 |
| 11 | 88,500,000 | 88,650,000 | 1181 | 712 | 1.219384734 | ID2,KIDINS220 |
| 11 | 88,575,000 | 88,725,000 | 1182 | 933 | 1.040150451 | ID2 |
| 11 | 88,650,000 | 88,800,000 | 1183 | 699 | 0.887622173 | |
| 11 | 88,725,000 | 88,875,000 | 1184 | 721 | 0.63927928 | |
| 11 | 88,800,000 | 88,950,000 | 1185 | 939 | -0.525658405 | |
| 11 | 88,875,000 | 89,025,000 | 1186 | 770 | -1.141856243 | |
| 11 | 88,950,000 | 89,100,000 | 1187 | 681 | 0.056617794 | |
| 11 | 89,025,000 | 89,175,000 | 1188 | 648 | 0.701713935 | ENSBTAG00000037793 |
| 11 | 89,100,000 | 89,250,000 | 1189 | 675 | 0.953755228 | ENSBTAG00000037793 |
| 11 | 89,175,000 | 89,325,000 | 1190 | 1046 | -0.488463499 | |
| 11 | 89,250,000 | 89,400,000 | 1191 | 1128 | -1.559145833 | |
| 11 | 89,325,000 | 89,475,000 | 1192 | 1196 | -1.615440762 | |
| 11 | 89,400,000 | 89,550,000 | 1193 | 1100 | -1.44755665 | |
| 11 | 89,475,000 | 89,625,000 | 1194 | 857 | -1.58003957 | |
| 11 | 89,550,000 | 89,700,000 | 1195 | 989 | -0.905955714 | |
| 11 | 89,625,000 | 89,775,000 | 1196 | 833 | 0.302956238 | |
| 11 | 89,700,000 | 89,850,000 | 1197 | 793 | -0.571111489 | |
| 11 | 89,775,000 | 89,925,000 | 1198 | 760 | -1.391415602 | RNF144A |
| 11 | 89,850,000 | 90,000,000 | 1199 | 656 | -1.517764811 | RNF144A |
| 11 | 89,925,000 | 90,075,000 | 1200 | 663 | -0.408442049 | CMPK2,RNF144A,RSAD2 |
| 11 | 90,000,000 | 90,150,000 | 1201 | 717 | 0.515185931 | CMPK2,RSAD2 |
| 11 | 90,075,000 | 90,225,000 | 1202 | 981 | 1.134820818 | |
| 11 | 90,150,000 | 90,300,000 | 1203 | 974 | 1.052358951 | |
| 11 | 90,225,000 | 90,375,000 | 1204 | 1145 | -0.114644614 | |
| 11 | 90,300,000 | 90,450,000 | 1205 | 1538 | 0.004367597 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 90,375,000 | 90,525,000 | 1206 | 1431 | 0.179456499 | |
| 11 | 90,450,000 | 90,600,000 | 1207 | 1172 | 0.598562574 | |
| 11 | 90,525,000 | 90,675,000 | 1208 | 823 | 1.103824017 | |
| 11 | 90,600,000 | 90,750,000 | 1209 | 692 | 1.082080028 | |
| 11 | 90,675,000 | 90,825,000 | 1210 | 1037 | -0.260546481 | |
| 11 | 90,750,000 | 90,900,000 | 1211 | 850 | -0.962351321 | |
| 11 | 90,825,000 | 90,975,000 | 1212 | 558 | -0.65954813 | |
| 11 | 90,900,000 | 91,050,000 | 1213 | 697 | -0.390715418 | |
| 11 | 90,975,000 | 91,125,000 | 1214 | 903 | -0.229669494 | |
| 11 | 91,050,000 | 91,200,000 | 1215 | 860 | -0.111336801 | |
| 11 | 91,125,000 | 91,275,000 | 1216 | 967 | 0.603337299 | |
| 11 | 91,200,000 | 91,350,000 | 1217 | 976 | 0.985951574 | |
| 11 | 91,275,000 | 91,425,000 | 1218 | 932 | 0.959459351 | |
| 11 | 91,350,000 | 91,500,000 | 1219 | 1241 | 0.616568951 | |
| 11 | 91,425,000 | 91,575,000 | 1220 | 1195 | 0.615141565 | |
| 11 | 91,500,000 | 91,650,000 | 1221 | 1242 | 0.712751233 | |
| 11 | 91,575,000 | 91,725,000 | 1222 | 1631 | 0.675251352 | |
| 11 | 91,650,000 | 91,800,000 | 1223 | 1819 | 0.379019314 | |
| 11 | 91,725,000 | 91,875,000 | 1224 | 1542 | 0.242181478 | |
| 11 | 91,800,000 | 91,950,000 | 1225 | 1361 | -0.170690045 | |
| 11 | 91,875,000 | 92,025,000 | 1226 | 1484 | -0.292649524 | |
| 11 | 91,950,000 | 92,100,000 | 1227 | 1611 | -1.422432651 | |
| 11 | 92,025,000 | 92,175,000 | 1228 | 1789 | -1.523561205 | |
| 11 | 92,100,000 | 92,250,000 | 1229 | 1418 | -0.13750348 | ENSBTAG00000039201 |
| 11 | 92,175,000 | 92,325,000 | 1230 | 1015 | 0.752772062 | GGTA1,MGC151949,ENSBTAG00000039201 |
| 11 | 92,250,000 | 92,400,000 | 1231 | 883 | 0.842494055 | GGTA1,MGC151949 |
| 11 | 92,325,000 | 92,475,000 | 1232 | 834 | 1.106326214 | GGTA1 |
| 11 | 92,400,000 | 92,550,000 | 1233 | 832 | 0.855189721 | |
| 11 | 92,475,000 | 92,625,000 | 1234 | 687 | -0.587205806 | DAB2IP |
| 11 | 92,550,000 | 92,700,000 | 1235 | 753 | -0.534715107 | DAB2IP |
| 11 | 92,625,000 | 92,775,000 | 1236 | 1023 | 0.474996853 | DAB2IP,TTLL11 |
| 11 | 92,700,000 | 92,850,000 | 1237 | 1474 | 1.174040025 | TTLL11 |
| 11 | 92,775,000 | 92,925,000 | 1238 | 1290 | 1.353634121 | TTLL11 |
| 11 | 92,850,000 | 93,000,000 | 1239 | 927 | -0.015544581 | TTLL11 |
| 11 | 92,925,000 | 93,075,000 | 1240 | 821 | -0.043637262 | LHX6,MORN5,NDUFA8 |
| 11 | 93,000,000 | 93,150,000 | 1241 | 599 | -0.683816658 | LHX6,MORN5,MRRF,NDUFA8,RBM18 |
| 11 | 93,075,000 | 93,225,000 | 1242 | 831 | 0.323075889 | LHX6,MRRF,PTGS1,RBM18 |
| 11 | 93,150,000 | 93,300,000 | 1243 | 972 | 1.075214389 | MRRF,PTGS1,ENSBTAG00000047610,ENSBTAG00000047693 |
| 11 | 93,225,000 | 93,375,000 | 1244 | 869 | 0.751018545 | PTGS1,ENSBTAG00000038309,ENSBTAG00000038796,ENSBTAG00000046018,ENSBTAG00000046137,ENSBTAG00000047610,ENSBTAG00000047693 |
| 11 | 93,300,000 | 93,450,000 | 1245 | 1234 | -0.237196204 | ENSBTAG00000037739,ENSBTAG00000038278,ENSBTAG00000038309,ENSBTAG00000038796,ENSBTAG00000046018,ENSBTAG00000046137 |
| 11 | 93,375,000 | 93,525,000 | 1246 | 1646 | -2.306731236 | ENSBTAG00000037739,ENSBTAG00000038278,ENSBTAG00000039225 |
| 11 | 93,450,000 | 93,600,000 | 1247 | 1343 | -2.057555974 | OR1J1,ENSBTAG00000037542,ENSBTAG00000038726,ENSBTAG00000039225 |
| 11 | 93,525,000 | 93,675,000 | 1248 | 1322 | -0.195042729 | OR1J1,OR1J2,OR1N1,ENSBTAG00000037542,ENSBTAG00000038726,ENSBTAG00000046536,ENSBTAG00000047112,ENSBTAG00000047728 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 11 | 93,600,000 | 93,750,000 | 1249 | 1736 | -0.09993764 | OR1J2,OR1N1,OR1Q1,ENSBTAG00000020660,ENSBTAG00000038551,ENSBTAG00000045527,ENSBTAG0000045545,ENSBTAG00000046536,ENSBTAG00000047112,ENSBTAG00000047728 |
| 11 | 93,675,000 | 93,825,000 | 1250 | 2014 | 0.226795645 | OR1L1,OR1L3,OR1Q1,ENSBTAG00000020660,ENSBTAG00000038551,ENSBTAG00000045527,ENSBTAG0000045528,ENSBTAG00000045545 |
| 11 | 93,750,000 | 93,900,000 | 1251 | 1639 | -0.098769886 | OR1L1,OR1L3,ENSBTAG00000037822,ENSBTAG0000038665,ENSBTAG00000038941,ENSBTAG00000045528 |
| 11 | 93,825,000 | 93,975,000 | 1252 | 867 | 0.161139885 | OR1K1,OR5C1,ENSBTAG00000004667,ENSBTAG0000030677,ENSBTAG00000037822,ENSBTAG00000038665,ENSBTAG00000038941 |
| 11 | 93,900,000 | 94,050,000 | 1253 | 452 | 0.069260001 | OR1K1,OR5C1,PDCL,RC3H2,ENSBTAG00000004667,ENSBTAG00000030677 |
| 11 | 93,975,000 | 94,125,000 | 1254 | 227 | -0.938773905 | PDCL,RABGAP1,RC3H2,ZBTB26,ZBTB6 |
| 11 | 94,050,000 | 94,200,000 | 1255 | 285 | -0.374905619 | GPR21,RABGAP1,RC3H2,ZBTB26,ZBTB6 |
| 11 | 94,125,000 | 94,275,000 | 1256 | 377 | -0.668492303 | GPR21,RABGAP1,ENSBTAG00000024604 |
| 11 | 94,200,000 | 94,350,000 | 1257 | 342 | -0.945975857 | RABGAP1,STRBP,ENSBTAG00000024604 |
| 11 | 94,275,000 | 94,425,000 | 1258 | 261 | -0.742740221 | STRBP,ENSBTAG00000024604 |
| 11 | 94,350,000 | 94,500,000 | 1259 | 286 | -0.254339998 | STRBP |
| 11 | 94,425,000 | 94,575,000 | 1260 | 351 | 0.460794504 | CRB2,DENND1A |
| 11 | 94,500,000 | 94,650,000 | 1261 | 368 | 0.679250339 | CRB2,DENND1A |
| 11 | 94,575,000 | 94,725,000 | 1262 | 537 | -1.098735088 | DENND1A |
| 11 | 94,650,000 | 94,800,000 | 1263 | 573 | -0.623756672 | DENND1A |
| 11 | 94,725,000 | 94,875,000 | 1264 | 372 | 1.534064606 | DENND1A |
| 11 | 94,800,000 | 94,950,000 | 1265 | 295 | 1.364574808 | DENND1A,ENSBTAG00000023860 |
| 11 | 94,875,000 | 95,025,000 | 1266 | 234 | 0.650913976 | DENND1A,ENSBTAG00000023860 |
| 11 | 94,950,000 | 95,100,000 | 1267 | 222 | 0.608834373 | DENND1A |
| 11 | 95,025,000 | 95,175,000 | 1268 | 218 | 0.729708118 | DENND1A,LHX2 |
| 11 | 95,100,000 | 95,250,000 | 1269 | 546 | 0.992890117 | LHX2 |
| 11 | 95,175,000 | 95,325,000 | 1270 | 735 | 0.862316205 | NEK6 |
| 11 | 95,250,000 | 95,400,000 | 1271 | 556 | 0.811418322 | NEK6 |
| 11 | 95,325,000 | 95,475,000 | 1272 | 577 | 0.273709844 | NEK6,PSMB7 |
| 11 | 95,400,000 | 95,550,000 | 1273 | 817 | 0.245223932 | GPR144,NEK6,NR5A1,PSMB7 |
| 11 | 95,475,000 | 95,625,000 | 1274 | 702 | 0.323410822 | GPR144,NR5A1,NR6A1 |
| 11 | 95,550,000 | 95,700,000 | 1275 | 391 | -0.154958487 | NR6A1 |
| 11 | 95,625,000 | 95,775,000 | 1276 | 447 | 0.709232971 | |
| 11 | 95,700,000 | 95,850,000 | 1277 | 536 | 0.27013634 | OLFML2A,WDR38 |
| 11 | 95,775,000 | 95,925,000 | 1278 | 451 | -0.23639687 | ARPC5L,GOLGA1,OLFML2A,RPL35,WDR38 |
| 11 | 95,850,000 | 96,000,000 | 1279 | 294 | 0.204574622 | ARPC5L,GOLGA1,RPL35,SCAI,WDR38 |
| 11 | 95,925,000 | 96,075,000 | 1280 | 368 | 0.007306437 | PPP6C,SCAI |
| 11 | 96,000,000 | 96,150,000 | 1281 | 499 | 0.274597732 | GAPVD1,GRP78,PPP6C,RABEPK |
| 11 | 96,075,000 | 96,225,000 | 1282 | 469 | 0.834870905 | GAPVD1,GRP78,PPP6C,RABEPK |
| 11 | 96,150,000 | 96,300,000 | 1283 | 526 | 0.721865352 | GAPVD1,MAPKAP1 |
| 11 | 96,225,000 | 96,375,000 | 1284 | 487 | 0.439172759 | MAPKAP1 |
| 11 | 96,300,000 | 96,450,000 | 1285 | 309 | 0.037553516 | MAPKAP1 |
| 11 | 96,375,000 | 96,525,000 | 1286 | 251 | -1.370371923 | MAPKAP1 |
| 11 | 96,450,000 | 96,600,000 | 1287 | 209 | -1.577339708 | MAPKAP1 |
| 11 | 96,525,000 | 96,675,000 | 1288 | 178 | -0.910070547 | |
| 11 | 96,600,000 | 96,750,000 | 1289 | 261 | -0.31012196 | PBX3 |
| 11 | 96,675,000 | 96,825,000 | 1290 | 515 | -0.449325466 | PBX3 |
| 11 | 96,750,000 | 96,900,000 | 1291 | 734 | -0.236905235 | PBX3 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--|
| 11 | 96,825,000 | 96,975,000 | 1292 | 520 | -0.192718357 | |
| 11 | 96,900,000 | 97,050,000 | 1293 | 423 | -2.93324391 | |
| 11 | 96,975,000 | 97,125,000 | 1294 | 874 | -0.789184494 | |
| 11 | 97,050,000 | 97,200,000 | 1295 | 1281 | 0.55967486 | |
| 11 | 97,125,000 | 97,275,000 | 1296 | 1276 | 0.528676783 | |
| 11 | 97,200,000 | 97,350,000 | 1297 | 820 | 0.589220604 | |
| 11 | 97,275,000 | 97,425,000 | 1298 | 483 | 0.888398076 | |
| 11 | 97,350,000 | 97,500,000 | 1299 | 453 | 0.487319955 | LMX1B |
| 11 | 97,425,000 | 97,575,000 | 1300 | 505 | -0.117630396 | LMX1B |
| 11 | 97,500,000 | 97,650,000 | 1301 | 520 | -1.149196907 | ZNF297B |
| 11 | 97,575,000 | 97,725,000 | 1302 | 480 | -0.719154935 | RALGPS1,ZBTB34,ZNF297B |
| 11 | 97,650,000 | 97,800,000 | 1303 | 421 | 0.658253757 | RALGPS1,ZBTB34 |
| 11 | 97,725,000 | 97,875,000 | 1304 | 457 | 0.34863616 | ANGPTL2,RALGPS1 |
| 11 | 97,800,000 | 97,950,000 | 1305 | 570 | -0.793101305 | ANGPTL2,RALGPS1 |
| 11 | 97,875,000 | 98,025,000 | 1306 | 672 | -1.784677666 | GARNL3,RALGPS1 |
| 11 | 97,950,000 | 98,100,000 | 1307 | 619 | -2.377174148 | GARNL3,RALGPS1 |
| 11 | 98,025,000 | 98,175,000 | 1308 | 487 | -1.258502915 | GARNL3,SLC2A8,ZNF79 |
| 11 | 98,100,000 | 98,250,000 | 1309 | 438 | -0.274787906 | FAM129B,GARNL3,LRSAM1,RPL12,SLC2A8,ZNF79 |
| 11 | 98,175,000 | 98,325,000 | 1310 | 460 | -0.086754169 | FAM129B,LRSAM1,RPL12,ZNF79 |
| 11 | 98,250,000 | 98,400,000 | 1311 | 656 | -0.860359487 | CYCS,FAM129B,STXBP1 |
| 11 | 98,325,000 | 98,475,000 | 1312 | 726 | -0.324067928 | C9orf117,CDK9,CYCS,PTRH1,SH2D3C,STXBP1,TOR2A, TTC16 |
| 11 | 98,400,000 | 98,550,000 | 1313 | 631 | 0.527321115 | C9orf117,CDK9,ENG,FPGS,PTRH1,SH2D3C,TOR2A, TTC 16,ENSBTAG00000046303 |
| 11 | 98,475,000 | 98,625,000 | 1314 | 554 | 0.308141144 | AK1,CDK9,DPM2,ENG,FAM102A,FPGS,PIP5KL1,SIAT7B ,ST6GALNAC6,ENSBTAG00000046303 |
| 11 | 98,550,000 | 98,700,000 | 1315 | 638 | 0.612773944 | AK1,DPM2,FAM102A,PIP5KL1,SIAT7B,ST6GALNAC6 |
| 11 | 98,625,000 | 98,775,000 | 1316 | 638 | -0.13507727 | FAM102A,NAIF1,PTGES2,SLC25A25 |
| 11 | 98,700,000 | 98,850,000 | 1317 | 589 | -1.128611659 | C11H9orf16,CIZ1,DNM1,LCN2,NAIF1,PTGES2,SLC25A 25 |
| 11 | 98,775,000 | 98,925,000 | 1318 | 519 | -1.158981573 | C11H9orf16,CIZ1,DNM1,LCN2,PTGES2,SWI5,TRUB2,E NSBTAG00000011317 |
| 11 | 98,850,000 | 99,000,000 | 1319 | 509 | -1.273165424 | COQ4,DNM1,SLC27A4,SWI5,TRUB2,URM1,ENSBTAG0 0000011317 |
| 11 | 98,925,000 | 99,075,000 | 1320 | 498 | -0.947222184 | CERCAM,COQ4,ODF2,SLC27A4,TRUB2,URM1 |
| 11 | 99,000,000 | 99,150,000 | 1321 | 419 | -1.024917044 | CERCAM,GLE1,ODF2,SPTAN1 |
| 11 | 99,075,000 | 99,225,000 | 1322 | 419 | -2.124160545 | GLE1,SET,SPTAN1,WDR34 |
| 11 | 99,150,000 | 99,300,000 | 1323 | 335 | -1.140980722 | PKN3,SET,SPTAN1,TBC1D13,WDR34,ZDHHC12,ZER1 |
| 11 | 99,225,000 | 99,375,000 | 1324 | 361 | 0.617042886 | C9orf114,CCBL1,ENDOG,PKN3,SET,TBC1D13,ZDHHC1 2,ZER1,ENSBTAG00000036099 |
| 11 | 99,300,000 | 99,450,000 | 1325 | 474 | 0.125206422 | C9orf114,CCBL1,ENDOG,LLRC8A,PHYHD1,TBC1D13,E NSBTAG00000036099 |
| 11 | 99,375,000 | 99,525,000 | 1326 | 433 | -0.443648647 | CCBL1,DOLK,LLRC8A,NUP188,PHYHD1,SH3GLB2 |
| 11 | 99,450,000 | 99,600,000 | 1327 | 352 | -0.110651854 | DOLK,DOLPP1,FAM73B,MGC142781,NUP188,PHYHD1 ,PPP2R4,SH3GLB2 |
| 11 | 99,525,000 | 99,675,000 | 1328 | 325 | 0.737924285 | DOLPP1,FAM73B,IERSL,MGC142781,PPP2R4 |
| 11 | 99,600,000 | 99,750,000 | 1329 | 367 | 0.359386493 | IERSL,PPP2R4 |
| 11 | 99,675,000 | 99,825,000 | 1330 | 443 | -0.793432259 | |
| 11 | 99,750,000 | 99,900,000 | 1331 | 529 | -1.110103428 | |
| 11 | 99,825,000 | 99,975,000 | 1332 | 808 | -0.594374646 | |
| 11 | 99,900,000 | 100,050,000 | 1333 | 787 | -0.004168899 | C9orf50,NTMT1 |
| 11 | 99,975,000 | 100,125,000 | 1334 | 489 | 0.412269732 | ASB6,C9orf50,NTMT1,PRRX2,ENSBTAG00000038183 |
| 11 | 100,050,000 | 100,200,000 | 1335 | 555 | -0.775105553 | ASB6,PRRX2,PTGES,ENSBTAG00000038183 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--|
| 11 | 100,125,000 | 100,275,000 | 1336 | 664 | 0.126153341 | C11H9ORF78,PRRX2,PTGES,TOR1A,TOR1B,USP20,ENSBTAG00000047907 |
| 11 | 100,200,000 | 100,350,000 | 1337 | 679 | 0.996857638 | C11H9ORF78,FNBP1,TOR1A,TOR1B,USP20,ENSBTAG0000047907 |
| 11 | 100,275,000 | 100,425,000 | 1338 | 616 | 0.909610343 | FNBP1,USP20 |
| 11 | 100,350,000 | 100,500,000 | 1339 | 667 | 0.481266786 | FNBP1,GPR107 |
| 11 | 100,425,000 | 100,575,000 | 1340 | 830 | -0.165754244 | GPR107,NCS1 |
| 11 | 100,500,000 | 100,650,000 | 1341 | 813 | -0.832339279 | HMCN2,NCS1 |
| 11 | 100,575,000 | 100,725,000 | 1342 | 1029 | 0.509779312 | HMCN2 |
| 11 | 100,650,000 | 100,800,000 | 1343 | 1091 | 1.432117209 | ASS1,HMCN2 |
| 11 | 100,725,000 | 100,875,000 | 1344 | 1035 | 1.387233907 | ASS1,HMCN2 |
| 11 | 100,800,000 | 100,950,000 | 1345 | 1127 | 0.120815935 | ASS1,FUBP3 |
| 11 | 100,875,000 | 101,025,000 | 1346 | 743 | -0.622076456 | EXOSC2,FUBP3,PRDM12 |
| 11 | 100,950,000 | 101,100,000 | 1347 | 566 | 0.899250538 | EXOSC2,FUBP3,PRDM12 |
| 11 | 101,025,000 | 101,175,000 | 1348 | 725 | 0.626090454 | ABL1,FIBCD1,QRFP |
| 11 | 101,100,000 | 101,250,000 | 1349 | 650 | -0.21817399 | ABL1,FIBCD1,LAMC3,QRFP |
| 11 | 101,175,000 | 101,325,000 | 1350 | 734 | 0.846147803 | FIBCD1,LAMC3 |
| 11 | 101,250,000 | 101,400,000 | 1351 | 840 | 1.356234817 | AIF1L,LAMC3,NUP214 |
| 11 | 101,325,000 | 101,475,000 | 1352 | 900 | 0.836373572 | AIF1L,NUP214 |
| 11 | 101,400,000 | 101,550,000 | 1353 | 927 | -0.207867241 | C9ORF59,NUP214,PPAPDC3 |
| 11 | 101,475,000 | 101,625,000 | 1354 | 790 | -0.587748295 | C9ORF59,PPAPDC3,PRRC2B |
| 11 | 101,550,000 | 101,700,000 | 1355 | 796 | 0.250781522 | POMT1,PRRC2B,UCK1 |
| 11 | 101,625,000 | 101,775,000 | 1356 | 1008 | 0.148106218 | POMT1,PRRC2B,RAPGEF1,UCK1 |
| 11 | 101,700,000 | 101,850,000 | 1357 | 990 | -1.307815421 | RAPGEF1 |
| 11 | 101,775,000 | 101,925,000 | 1358 | 864 | -2.350379088 | RAPGEF1 |
| 11 | 101,850,000 | 102,000,000 | 1359 | 856 | -1.465215622 | MED27 |
| 11 | 101,925,000 | 102,075,000 | 1360 | 813 | -2.017379392 | MED27 |
| 11 | 102,000,000 | 102,150,000 | 1361 | 604 | -2.037259136 | MED27 |
| 11 | 102,075,000 | 102,225,000 | 1362 | 733 | -0.585267095 | MED27 |
| 11 | 102,150,000 | 102,300,000 | 1363 | 940 | -0.747412443 | MED27,NTNG2 |
| 11 | 102,225,000 | 102,375,000 | 1364 | 822 | -0.560698951 | NTNG2,SETX |
| 11 | 102,300,000 | 102,450,000 | 1365 | 652 | -0.30627615 | NTNG2,SETX |
| 11 | 102,375,000 | 102,525,000 | 1366 | 834 | 0.138294637 | C9orf171,SETX,TTF1,ENSBTAG00000023697 |
| 11 | 102,450,000 | 102,600,000 | 1367 | 1043 | 0.632733319 | C9orf171,SETX,TTF1,ENSBTAG00000023697 |
| 11 | 102,525,000 | 102,675,000 | 1368 | 1078 | 0.523614296 | C9orf171 |
| 11 | 102,600,000 | 102,750,000 | 1369 | 897 | 0.104319484 | BARHL1,C9orf171,DDX31 |
| 11 | 102,675,000 | 102,825,000 | 1370 | 478 | -0.405788179 | AK8,BARHL1,DDX31,GTF3C4 |
| 11 | 102,750,000 | 102,900,000 | 1371 | 614 | -0.911841092 | AK8,DDX31,GTF3C4 |
| 11 | 102,825,000 | 102,975,000 | 1372 | 794 | -0.723232662 | AK8,C11H9ORF9,TSC1 |
| 11 | 102,900,000 | 103,050,000 | 1373 | 772 | 0.181000625 | AK8,C11H9ORF9,GFI1B,TSC1 |
| 11 | 102,975,000 | 103,125,000 | 1374 | 665 | 1.06165442 | CEL,GFI1B,GTF3C5,TSC1 |
| 11 | 103,050,000 | 103,200,000 | 1375 | 813 | 0.398119193 | CEL,GBGT1,GFI1B,GTF3C5,RALGDS,TSC1 |
| 11 | 103,125,000 | 103,275,000 | 1376 | 1131 | -1.00094295 | GBGT1,RALGDS,ENSBTAG00000000893 |
| 11 | 103,200,000 | 103,350,000 | 1377 | 1234 | -0.771547041 | GLT6D1,LCN9,LGB,SOHLH1,ENSBTAG00000000893,ENSBTAG00000048091 |
| 11 | 103,275,000 | 103,425,000 | 1378 | 934 | 0.328181721 | GLT6D1,KCNT1,LCN9,LGB,SOHLH1,ENSBTAG00000048091 |
| 11 | 103,350,000 | 103,500,000 | 1379 | 503 | 0.488541259 | CAMSAP1,KCNT1,SOHLH1 |
| 11 | 103,425,000 | 103,575,000 | 1380 | 411 | 0.412310943 | CAMSAP1,KCNT1,NACC2,UBAC1 |
| 11 | 103,500,000 | 103,650,000 | 1381 | 607 | 0.601828009 | NACC2,UBAC1 |
| 11 | 103,575,000 | 103,725,000 | 1382 | 577 | 0.613178426 | C9orf69,NACC2 |
| 11 | 103,650,000 | 103,800,000 | 1383 | 615 | -0.279986546 | C9orf69,LHX3,QSOX2 |
| 11 | 103,725,000 | 103,875,000 | 1384 | 687 | -1.100980749 | DNLZ,GPSM1,LHX3,QSOX2,ENSBTAG00000023064 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|---|
| 11 | 103,800,000 | 103,950,000 | 1385 | 432 | -1.520678464 | CARD9,DNLZ,GPSM1,INPP5E,PMPCA,SDCCAG3,SEC16A,SNAPC4,ENSBTAG00000023064 |
| 11 | 103,875,000 | 104,025,000 | 1386 | 457 | -0.792791879 | CARD9,DNLZ,INPP5E,NOTCH1,PMPCA,SDCCAG3,SEC16A,SNAPC4 |
| 11 | 103,950,000 | 104,100,000 | 1387 | 767 | 0.775618916 | NOTCH1,SEC16A |
| 11 | 104,025,000 | 104,175,000 | 1388 | 962 | 0.723152851 | AGPAT2,EGFL7,NOTCH1 |
| 11 | 104,100,000 | 104,250,000 | 1389 | 1578 | 0.62715922 | ABO,AGPAT2,EGFL7,FAM69B |
| 11 | 104,175,000 | 104,325,000 | 1390 | 1885 | 0.824428285 | ABO,FAM69B,MED22,RPL7A,SURF1,SURF2,SURF6 |
| 11 | 104,250,000 | 104,400,000 | 1391 | 1499 | 0.871436377 | ABO,ADAMTS13,MED22,REXO4,RPL7A,STKLD1,SURF1,SURF2,SURF6 |
| 11 | 104,325,000 | 104,475,000 | 1392 | 1308 | 0.725026982 | ADAMTS13,ADAMTSL2,MGC139698,REXO4,SLC2A6,STKLD1,SURF1,TMEM8C |
| 11 | 104,400,000 | 104,550,000 | 1393 | 1085 | 0.758966326 | ADAMTS13,ADAMTSL2,FAM163B,MGC139698,SLC2A6,TMEM8C |
| 11 | 104,475,000 | 104,625,000 | 1394 | 1406 | 0.97259038 | ADAMTSL2,DBH,FAM163B,SARDH |
| 11 | 104,550,000 | 104,700,000 | 1395 | 1219 | 0.500615103 | DBH,SARDH,VAV2 |
| 11 | 104,625,000 | 104,775,000 | 1396 | 1076 | -1.380773914 | SARDH,VAV2 |
| 11 | 104,700,000 | 104,850,000 | 1397 | 1064 | -1.251313675 | |
| 11 | 104,775,000 | 104,925,000 | 1398 | 489 | 0.001736603 | BRD3 |
| 11 | 104,850,000 | 105,000,000 | 1399 | 527 | 1.115530139 | BRD3,WDR5 |
| 11 | 104,925,000 | 105,075,000 | 1400 | 706 | 0.955096995 | WDR5 |
| 11 | 105,000,000 | 105,150,000 | 1401 | 863 | 0.536953105 | ENSBTAG00000008308 |
| 11 | 105,075,000 | 105,225,000 | 1402 | 1115 | 0.616996742 | CACNA1B,ENSBTAG00000008308 |
| 11 | 105,150,000 | 105,300,000 | 1403 | 998 | 0.788495877 | CACNA1B |
| 11 | 105,225,000 | 105,375,000 | 1404 | 874 | 0.25933408 | CACNA1B |
| 11 | 105,300,000 | 105,450,000 | 1405 | 1239 | 0.421967411 | CACNA1B,EHMT1 |
| 11 | 105,375,000 | 105,525,000 | 1406 | 1592 | 0.738418571 | CACNA1B,EHMT1 |
| 11 | 105,450,000 | 105,600,000 | 1407 | 1285 | 0.625082015 | ARRDC1,DPH7,EHMT1,MRPL41,PNPLA7,ZMYND19 |
| 11 | 105,525,000 | 105,675,000 | 1408 | 811 | 0.522789762 | ARRDC1,DPH7,MRPL41,NSMF,PNPLA7,ZMYND19 |
| 11 | 105,600,000 | 105,750,000 | 1409 | 804 | 0.836457552 | ENTPD8,EXD3,NOXA1,NSMF,PNPLA7 |
| 11 | 105,675,000 | 105,825,000 | 1410 | 856 | 0.607779696 | ENTPD8,EXD3,NOXA1,NRARP,NSMF |
| 11 | 105,750,000 | 105,900,000 | 1411 | 653 | 0.28287684 | COBRA1,CYSRT1,EXD3,FAM166A,NDOR1,NRARP,RNF208,RNF224,SLC34A3,TMEM203,TOR4A,TPRN,TUBB4B |
| 11 | 105,825,000 | 105,975,000 | 1412 | 514 | 0.65287913 | COBRA1,CYSRT1,FAM166A,GRIN1,LRRRC26,NDOR1,RNF208,RNF224,SLC34A3,SSNA1,TMEM203,TMEM210,TOR4A,TPRN,TUBB4B,ENSBTAG00000046223,ENSBTAG00000046416 |
| 11 | 105,900,000 | 106,050,000 | 1413 | 524 | 0.819480945 | GRIN1,LRRRC26,RXRA,SSNA1,TMEM210,TPRN,ENSBTAG00000046223,ENSBTAG00000046416 |
| 11 | 105,975,000 | 106,125,000 | 1414 | 888 | 0.391057798 | RXRA |
| 11 | 106,050,000 | 106,200,000 | 1415 | 1042 | 0.307931174 | ENTPD2,MAN1B1,NPDC1,SAPCD2,UAP1L1 |
| 11 | 106,125,000 | 106,275,000 | 1416 | 729 | 0.405197383 | ABCA2,C11H9ORF142,CLIC3,ENTPD2,FUT7,LCNL1,MAN1B1,NPDC1,PTGDS,SAPCD2,UAP1L1 |
| 11 | 106,200,000 | 106,350,000 | 1417 | 698 | 0.022140751 | ABCA2,C11H9ORF142,C8G,C9orf172,CLIC3,EDF1,FBXW5,FUT7,LCN12,LCNL1,MAMDC4,PHPT1,PTGDS,RABL6,TRAF2 |
| 11 | 106,275,000 | 106,425,000 | 1418 | 1312 | -0.356055848 | C8G,C9orf172,EDF1,FBXW5,KIAA1984,LCN10,LCN12,LCN15,LCN8,MAMDC4,PHPT1,RABL6,TMEM141,TRAF2,ENSBTAG00000016148,ENSBTAG00000047297 |
| 11 | 106,350,000 | 106,500,000 | 1419 | 1980 | -0.319916991 | C9orf116,KIAA1984,LCN1,LCN10,LCN15,LCN8,MRPS2,PPP1R26,RABL6,TMEM141,ENSBTAG00000016148,ENSBTAG00000038440,ENSBTAG00000047297 |

| | | | | | | |
|----|-------------|-------------|------|------|--------------|--|
| 11 | 106,425,000 | 106,575,000 | 1420 | 2085 | -1.981767902 | C9orf116,LCN1,MRPS2,PPP1R26,ENSBTAG00000038440 |
| 11 | 106,500,000 | 106,650,000 | 1421 | 1724 | -2.901194457 | |
| 11 | 106,575,000 | 106,725,000 | 1422 | 1260 | -0.875917605 | OLFM1 |
| 11 | 106,650,000 | 106,800,000 | 1423 | 1628 | 0.147165378 | OLFM1 |
| 11 | 106,725,000 | 106,875,000 | 1424 | 1647 | 0.473514981 | COL5A1,FCN2 |
| 11 | 106,800,000 | 106,950,000 | 1425 | 974 | 0.830097797 | COL5A1,FCN2 |
| 11 | 106,875,000 | 107,025,000 | 1426 | 753 | -0.060411112 | COL5A1 |
| 11 | 106,950,000 | 107,100,000 | 1427 | 874 | -0.04221448 | COL5A1 |
| 11 | 107,025,000 | 107,175,000 | 1428 | 962 | 0.334192708 | BET1L,ODF3,RIC8A,SIRT3,ENSBTAG00000022142 |
| 11 | 107,100,000 | 107,250,000 | 1429 | 1019 | 0.416619605 | ATHL1,BET1L,COX8B,IFITM2,IFITM5,NLRP6,ODF3,PSMD13,RIC8A,SIRT3,ENSBTAG00000022142 |
| 11 | 107,175,000 | 107,310,763 | 1430 | 828 | -1.317149282 | ATHL1,COX8B,IFITM2,IFITM5,NLRP6,PSMD13,SIRT3,ENSBTAG00000019018 |
| 12 | 0 | 150,000 | 1 | 381 | -2.01890669 | |
| 12 | 75,000 | 225,000 | 2 | 290 | -1.627015313 | |
| 12 | 150,000 | 300,000 | 3 | 239 | -2.063389102 | |
| 12 | 225,000 | 375,000 | 4 | 223 | -0.382048914 | |
| 12 | 300,000 | 450,000 | 5 | 237 | -0.665081835 | PCDH20 |
| 12 | 375,000 | 525,000 | 6 | 495 | -2.734039571 | PCDH20 |
| 12 | 450,000 | 600,000 | 7 | 736 | -3.157395929 | |
| 12 | 525,000 | 675,000 | 8 | 989 | -1.026305063 | |
| 12 | 600,000 | 750,000 | 9 | 1591 | 0.456178766 | ENSBTAG00000035926 |
| 12 | 675,000 | 825,000 | 10 | 1758 | 0.467731062 | ENSBTAG00000035926 |
| 12 | 750,000 | 900,000 | 11 | 1482 | 0.112484283 | |
| 12 | 825,000 | 975,000 | 12 | 1399 | -0.04428543 | |
| 12 | 900,000 | 1,050,000 | 13 | 1112 | 0.474476088 | |
| 12 | 975,000 | 1,125,000 | 14 | 713 | 1.207321126 | |
| 12 | 1,050,000 | 1,200,000 | 15 | 645 | 1.035882888 | |
| 12 | 1,125,000 | 1,275,000 | 16 | 1223 | 1.165588546 | |
| 12 | 1,200,000 | 1,350,000 | 17 | 1489 | 1.122098987 | |
| 12 | 1,275,000 | 1,425,000 | 18 | 1412 | 0.188647628 | |
| 12 | 1,350,000 | 1,500,000 | 19 | 1516 | 0.105923833 | |
| 12 | 1,425,000 | 1,575,000 | 20 | 1384 | 0.226629225 | TDRD3 |
| 12 | 1,500,000 | 1,650,000 | 21 | 1231 | -0.955223972 | TDRD3 |
| 12 | 1,575,000 | 1,725,000 | 22 | 1248 | -0.521072641 | TDRD3 |
| 12 | 1,650,000 | 1,800,000 | 23 | 1343 | 0.426475075 | TDRD3 |
| 12 | 1,725,000 | 1,875,000 | 24 | 1542 | 0.318208816 | TDRD3 |
| 12 | 1,800,000 | 1,950,000 | 25 | 1387 | 0.229753801 | |
| 12 | 1,875,000 | 2,025,000 | 26 | 856 | 0.482388522 | |
| 12 | 1,950,000 | 2,100,000 | 27 | 621 | 0.093838308 | ENSBTAG00000026861 |
| 12 | 2,025,000 | 2,175,000 | 28 | 619 | -1.247264396 | DIAPH3,ENSBTAG00000026861 |
| 12 | 2,100,000 | 2,250,000 | 29 | 964 | -0.896458297 | DIAPH3 |
| 12 | 2,175,000 | 2,325,000 | 30 | 1031 | -1.115050366 | DIAPH3 |
| 12 | 2,250,000 | 2,400,000 | 31 | 765 | -2.615603545 | DIAPH3 |
| 12 | 2,325,000 | 2,475,000 | 32 | 762 | -4.417533563 | DIAPH3 |
| 12 | 2,400,000 | 2,550,000 | 33 | 681 | -3.930353541 | DIAPH3 |
| 12 | 2,475,000 | 2,625,000 | 34 | 837 | -1.254314528 | DIAPH3 |
| 12 | 2,550,000 | 2,700,000 | 35 | 1167 | 0.016117078 | DIAPH3 |
| 12 | 2,625,000 | 2,775,000 | 36 | 933 | 0.739116537 | DIAPH3 |
| 12 | 2,700,000 | 2,850,000 | 37 | 564 | 0.387216304 | |
| 12 | 2,775,000 | 2,925,000 | 38 | 736 | -0.314657275 | |
| 12 | 2,850,000 | 3,000,000 | 39 | 844 | -0.279672187 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------|
| 12 | 2,925,000 | 3,075,000 | 40 | 799 | 0.804535203 | |
| 12 | 3,000,000 | 3,150,000 | 41 | 1147 | 0.690503029 | |
| 12 | 3,075,000 | 3,225,000 | 42 | 1110 | 0.128041867 | |
| 12 | 3,150,000 | 3,300,000 | 43 | 1011 | -0.433830429 | |
| 12 | 3,225,000 | 3,375,000 | 44 | 1181 | -0.100702864 | |
| 12 | 3,300,000 | 3,450,000 | 45 | 1229 | -0.279568621 | |
| 12 | 3,375,000 | 3,525,000 | 46 | 1264 | -0.08923446 | |
| 12 | 3,450,000 | 3,600,000 | 47 | 1473 | 0.398197463 | |
| 12 | 3,525,000 | 3,675,000 | 48 | 1469 | 0.206935229 | |
| 12 | 3,600,000 | 3,750,000 | 49 | 1005 | -1.507442894 | |
| 12 | 3,675,000 | 3,825,000 | 50 | 811 | -2.938732097 | |
| 12 | 3,750,000 | 3,900,000 | 51 | 879 | -0.489225801 | |
| 12 | 3,825,000 | 3,975,000 | 52 | 693 | 0.234043872 | |
| 12 | 3,900,000 | 4,050,000 | 53 | 1014 | 0.741043765 | |
| 12 | 3,975,000 | 4,125,000 | 54 | 1063 | 0.729144329 | |
| 12 | 4,050,000 | 4,200,000 | 55 | 780 | 0.480800738 | |
| 12 | 4,125,000 | 4,275,000 | 56 | 830 | 0.683701748 | |
| 12 | 4,200,000 | 4,350,000 | 57 | 640 | -0.765916314 | |
| 12 | 4,275,000 | 4,425,000 | 58 | 763 | -0.592353375 | |
| 12 | 4,350,000 | 4,500,000 | 59 | 1569 | -0.134485755 | |
| 12 | 4,425,000 | 4,575,000 | 60 | 1393 | -0.187354944 | |
| 12 | 4,500,000 | 4,650,000 | 61 | 699 | 0.475112265 | |
| 12 | 4,575,000 | 4,725,000 | 62 | 785 | 0.480236132 | |
| 12 | 4,650,000 | 4,800,000 | 63 | 1196 | 0.953915924 | |
| 12 | 4,725,000 | 4,875,000 | 64 | 1639 | 0.712889273 | |
| 12 | 4,800,000 | 4,950,000 | 65 | 1522 | 0.422192622 | |
| 12 | 4,875,000 | 5,025,000 | 66 | 1313 | 0.626294377 | |
| 12 | 4,950,000 | 5,100,000 | 67 | 1068 | -0.005456282 | PCDH17 |
| 12 | 5,025,000 | 5,175,000 | 68 | 997 | -0.132745036 | PCDH17 |
| 12 | 5,100,000 | 5,250,000 | 69 | 1123 | -0.115292869 | PCDH17 |
| 12 | 5,175,000 | 5,325,000 | 70 | 1076 | -0.92395383 | PCDH17 |
| 12 | 5,250,000 | 5,400,000 | 71 | 1163 | -1.689098674 | |
| 12 | 5,325,000 | 5,475,000 | 72 | 1327 | -1.120326527 | |
| 12 | 5,400,000 | 5,550,000 | 73 | 1490 | 0.745881119 | |
| 12 | 5,475,000 | 5,625,000 | 74 | 1489 | 1.131355766 | |
| 12 | 5,550,000 | 5,700,000 | 75 | 1484 | 0.990846745 | |
| 12 | 5,625,000 | 5,775,000 | 76 | 1565 | 0.710314695 | |
| 12 | 5,700,000 | 5,850,000 | 77 | 1770 | -0.565870987 | |
| 12 | 5,775,000 | 5,925,000 | 78 | 1574 | -1.170839868 | |
| 12 | 5,850,000 | 6,000,000 | 79 | 1193 | -1.6954028 | |
| 12 | 5,925,000 | 6,075,000 | 80 | 997 | -0.781436884 | |
| 12 | 6,000,000 | 6,150,000 | 81 | 1082 | 0.019601165 | |
| 12 | 6,075,000 | 6,225,000 | 82 | 1421 | 0.108267029 | |
| 12 | 6,150,000 | 6,300,000 | 83 | 1058 | 0.197797006 | |
| 12 | 6,225,000 | 6,375,000 | 84 | 892 | -0.000496313 | |
| 12 | 6,300,000 | 6,450,000 | 85 | 917 | 0.167450251 | |
| 12 | 6,375,000 | 6,525,000 | 86 | 1699 | -0.696885089 | |
| 12 | 6,450,000 | 6,600,000 | 87 | 1724 | -0.568626925 | |
| 12 | 6,525,000 | 6,675,000 | 88 | 1115 | 0.673891692 | |
| 12 | 6,600,000 | 6,750,000 | 89 | 1221 | 0.586115604 | |
| 12 | 6,675,000 | 6,825,000 | 90 | 1610 | 0.160348643 | |
| 12 | 6,750,000 | 6,900,000 | 91 | 2237 | 0.135580328 | |
| 12 | 6,825,000 | 6,975,000 | 92 | 1974 | 0.355667092 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 6,900,000 | 7,050,000 | 93 | 1074 | 0.662355259 | |
| 12 | 6,975,000 | 7,125,000 | 94 | 734 | 0.576807991 | |
| 12 | 7,050,000 | 7,200,000 | 95 | 1074 | 0.178912311 | |
| 12 | 7,125,000 | 7,275,000 | 96 | 1121 | -0.434739338 | |
| 12 | 7,200,000 | 7,350,000 | 97 | 1389 | 0.173951935 | |
| 12 | 7,275,000 | 7,425,000 | 98 | 1239 | 0.809763649 | |
| 12 | 7,350,000 | 7,500,000 | 99 | 663 | 1.469320669 | |
| 12 | 7,425,000 | 7,575,000 | 100 | 720 | 0.986252402 | |
| 12 | 7,500,000 | 7,650,000 | 101 | 711 | 0.894996023 | |
| 12 | 7,575,000 | 7,725,000 | 102 | 651 | 0.905388239 | |
| 12 | 7,650,000 | 7,800,000 | 103 | 1047 | 0.730385394 | |
| 12 | 7,725,000 | 7,875,000 | 104 | 1356 | 0.410450029 | |
| 12 | 7,800,000 | 7,950,000 | 105 | 1246 | -0.175950047 | |
| 12 | 7,875,000 | 8,025,000 | 106 | 1504 | -0.407367147 | |
| 12 | 7,950,000 | 8,100,000 | 107 | 1758 | -0.494340664 | |
| 12 | 8,025,000 | 8,175,000 | 108 | 1234 | -0.536845224 | |
| 12 | 8,100,000 | 8,250,000 | 109 | 842 | -0.966704647 | |
| 12 | 8,175,000 | 8,325,000 | 110 | 910 | -1.458848185 | |
| 12 | 8,250,000 | 8,400,000 | 111 | 1479 | -0.468479056 | |
| 12 | 8,325,000 | 8,475,000 | 112 | 1782 | -0.375689163 | |
| 12 | 8,400,000 | 8,550,000 | 113 | 1421 | 0.10024243 | |
| 12 | 8,475,000 | 8,625,000 | 114 | 1545 | 0.807024071 | |
| 12 | 8,550,000 | 8,700,000 | 115 | 1411 | 0.56932344 | |
| 12 | 8,625,000 | 8,775,000 | 116 | 1057 | 0.025052928 | |
| 12 | 8,700,000 | 8,850,000 | 117 | 797 | 0.162202549 | |
| 12 | 8,775,000 | 8,925,000 | 118 | 709 | 0.29326472 | |
| 12 | 8,850,000 | 9,000,000 | 119 | 932 | 0.122083771 | |
| 12 | 8,925,000 | 9,075,000 | 120 | 890 | 0.043211667 | |
| 12 | 9,000,000 | 9,150,000 | 121 | 936 | 0.106386595 | |
| 12 | 9,075,000 | 9,225,000 | 122 | 1042 | -0.088496848 | |
| 12 | 9,150,000 | 9,300,000 | 123 | 783 | 0.008700813 | |
| 12 | 9,225,000 | 9,375,000 | 124 | 757 | 0.036980683 | |
| 12 | 9,300,000 | 9,450,000 | 125 | 986 | 0.452748305 | |
| 12 | 9,375,000 | 9,525,000 | 126 | 1325 | 0.74754714 | |
| 12 | 9,450,000 | 9,600,000 | 127 | 1505 | -0.1918869 | |
| 12 | 9,525,000 | 9,675,000 | 128 | 1260 | -1.839551916 | |
| 12 | 9,600,000 | 9,750,000 | 129 | 1158 | -1.274061899 | |
| 12 | 9,675,000 | 9,825,000 | 130 | 1021 | -1.125741507 | |
| 12 | 9,750,000 | 9,900,000 | 131 | 971 | -0.031807278 | |
| 12 | 9,825,000 | 9,975,000 | 132 | 1126 | -0.440548195 | |
| 12 | 9,900,000 | 10,050,000 | 133 | 1254 | -0.561124574 | |
| 12 | 9,975,000 | 10,125,000 | 134 | 1253 | -1.180876317 | |
| 12 | 10,050,000 | 10,200,000 | 135 | 1087 | -1.712435082 | |
| 12 | 10,125,000 | 10,275,000 | 136 | 899 | 0.282924983 | |
| 12 | 10,200,000 | 10,350,000 | 137 | 1213 | -0.149617876 | |
| 12 | 10,275,000 | 10,425,000 | 138 | 1249 | -0.126889357 | |
| 12 | 10,350,000 | 10,500,000 | 139 | 1081 | 0.223829788 | ENSBTAG00000048161 |
| 12 | 10,425,000 | 10,575,000 | 140 | 1057 | 0.617848995 | ENSBTAG00000048161 |
| 12 | 10,500,000 | 10,650,000 | 141 | 1159 | 1.199175195 | ENSBTAG00000048161 |
| 12 | 10,575,000 | 10,725,000 | 142 | 1279 | 0.783821471 | OLFM4 |
| 12 | 10,650,000 | 10,800,000 | 143 | 1376 | -0.966878579 | OLFM4 |
| 12 | 10,725,000 | 10,875,000 | 144 | 1438 | -2.080199881 | |
| 12 | 10,800,000 | 10,950,000 | 145 | 977 | -1.989971534 | PCDH8 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 12 | 10,875,000 | 11,025,000 | 146 | 1039 | 0.516180961 | PCDH8 |
| 12 | 10,950,000 | 11,100,000 | 147 | 1118 | 0.59347158 | LECT1 |
| 12 | 11,025,000 | 11,175,000 | 148 | 723 | 0.111703898 | LECT1,SUGT1 |
| 12 | 11,100,000 | 11,250,000 | 149 | 396 | 1.005179596 | ELF1,LECT1,SUGT1 |
| 12 | 11,175,000 | 11,325,000 | 150 | 298 | 0.354815014 | ELF1,WBP4 |
| 12 | 11,250,000 | 11,400,000 | 151 | 435 | 0.136070633 | ELF1,KBTBD6,WBP4 |
| 12 | 11,325,000 | 11,475,000 | 152 | 695 | 0.097133455 | KBTBD6,MTRF1,WBP4,ENSBTAG00000039823 |
| 12 | 11,400,000 | 11,550,000 | 153 | 641 | 0.060674722 | MTRF1,NAA16,ENSBTAG00000039823 |
| 12 | 11,475,000 | 11,625,000 | 154 | 732 | -1.050787662 | MTRF1,NAA16 |
| 12 | 11,550,000 | 11,700,000 | 155 | 933 | -0.844672061 | MGC148992,NAA16 |
| 12 | 11,625,000 | 11,775,000 | 156 | 945 | 0.617733845 | MGC148992,VWA8 |
| 12 | 11,700,000 | 11,850,000 | 157 | 810 | 0.619338137 | VWA8 |
| 12 | 11,775,000 | 11,925,000 | 158 | 873 | -0.173259295 | VWA8 |
| 12 | 11,850,000 | 12,000,000 | 159 | 1091 | 0.246527977 | VWA8 |
| 12 | 11,925,000 | 12,075,000 | 160 | 688 | 0.724697964 | VWA8 |
| 12 | 12,000,000 | 12,150,000 | 161 | 685 | 0.126384365 | VWA8 |
| 12 | 12,075,000 | 12,225,000 | 162 | 713 | -0.024941272 | |
| 12 | 12,150,000 | 12,300,000 | 163 | 736 | -0.37930012 | DGKH |
| 12 | 12,225,000 | 12,375,000 | 164 | 835 | -0.233926537 | DGKH |
| 12 | 12,300,000 | 12,450,000 | 165 | 888 | 0.567986089 | DGKH |
| 12 | 12,375,000 | 12,525,000 | 166 | 959 | -0.000628388 | AKAP11,DGKH |
| 12 | 12,450,000 | 12,600,000 | 167 | 953 | -0.062258922 | AKAP11 |
| 12 | 12,525,000 | 12,675,000 | 168 | 1178 | 0.674456295 | |
| 12 | 12,600,000 | 12,750,000 | 169 | 1278 | 1.112054855 | TNFSF11 |
| 12 | 12,675,000 | 12,825,000 | 170 | 1570 | 1.085500049 | TNFSF11 |
| 12 | 12,750,000 | 12,900,000 | 171 | 1443 | 0.929821515 | TNFSF11 |
| 12 | 12,825,000 | 12,975,000 | 172 | 928 | 0.298295736 | FAM216B |
| 12 | 12,900,000 | 13,050,000 | 173 | 977 | 0.222400056 | FAM216B |
| 12 | 12,975,000 | 13,125,000 | 174 | 1194 | 0.955948259 | EPSTI1,FAM216B |
| 12 | 13,050,000 | 13,200,000 | 175 | 1199 | 1.266748848 | DNAJC15,EPSTI1 |
| 12 | 13,125,000 | 13,275,000 | 176 | 1270 | 0.821094079 | DNAJC15,EPSTI1 |
| 12 | 13,200,000 | 13,350,000 | 177 | 1081 | 0.828824944 | DNAJC15 |
| 12 | 13,275,000 | 13,425,000 | 178 | 906 | -0.756377415 | ENOX1 |
| 12 | 13,350,000 | 13,500,000 | 179 | 1077 | -3.306372707 | ENOX1 |
| 12 | 13,425,000 | 13,575,000 | 180 | 1268 | -1.732891115 | ENOX1 |
| 12 | 13,500,000 | 13,650,000 | 181 | 1382 | 0.090649325 | ENOX1 |
| 12 | 13,575,000 | 13,725,000 | 182 | 1249 | 0.232556006 | ENOX1 |
| 12 | 13,650,000 | 13,800,000 | 183 | 1195 | 0.178632209 | |
| 12 | 13,725,000 | 13,875,000 | 184 | 1304 | 0.805948132 | |
| 12 | 13,800,000 | 13,950,000 | 185 | 1145 | 0.653192036 | |
| 12 | 13,875,000 | 14,025,000 | 186 | 798 | -0.351202976 | |
| 12 | 13,950,000 | 14,100,000 | 187 | 725 | -1.177618815 | |
| 12 | 14,025,000 | 14,175,000 | 188 | 637 | -0.868241808 | CCDC122,LACC1 |
| 12 | 14,100,000 | 14,250,000 | 189 | 770 | 0.376172192 | CCDC122,LACC1 |
| 12 | 14,175,000 | 14,325,000 | 190 | 806 | 0.189776004 | |
| 12 | 14,250,000 | 14,400,000 | 191 | 625 | -0.732342174 | |
| 12 | 14,325,000 | 14,475,000 | 192 | 728 | -0.446167453 | |
| 12 | 14,400,000 | 14,550,000 | 193 | 672 | 0.420141794 | |
| 12 | 14,475,000 | 14,625,000 | 194 | 913 | 0.09338039 | |
| 12 | 14,550,000 | 14,700,000 | 195 | 928 | -0.100813 | |
| 12 | 14,625,000 | 14,775,000 | 196 | 501 | -0.443839546 | TSC22D1 |
| 12 | 14,700,000 | 14,850,000 | 197 | 354 | -1.63325439 | TSC22D1 |
| 12 | 14,775,000 | 14,925,000 | 198 | 337 | -1.535952718 | TSC22D1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 12 | 14,850,000 | 15,000,000 | 199 | 793 | 1.238922303 | |
| 12 | 14,925,000 | 15,075,000 | 200 | 1121 | 1.394701862 | |
| 12 | 15,000,000 | 15,150,000 | 201 | 1037 | 1.330458741 | |
| 12 | 15,075,000 | 15,225,000 | 202 | 872 | 1.112757937 | GPALPP1,NUFIP1 |
| 12 | 15,150,000 | 15,300,000 | 203 | 932 | -0.753012336 | GPALPP1,NUFIP1 |
| 12 | 15,225,000 | 15,375,000 | 204 | 1270 | -1.364775088 | GTF2F2 |
| 12 | 15,300,000 | 15,450,000 | 205 | 1190 | -1.686377759 | GTF2F2,KCTD4 |
| 12 | 15,375,000 | 15,525,000 | 206 | 1085 | -3.067735802 | GTF2F2,KCTD4,TPT1 |
| 12 | 15,450,000 | 15,600,000 | 207 | 1154 | -1.160561332 | GTF2F2,SLC25A30,TPT1 |
| 12 | 15,525,000 | 15,675,000 | 208 | 774 | 0.625233601 | COG3,SLC25A30 |
| 12 | 15,600,000 | 15,750,000 | 209 | 680 | 0.499915306 | COG3,SLC25A30 |
| 12 | 15,675,000 | 15,825,000 | 210 | 1127 | 0.52916328 | COG3,SPERT |
| 12 | 15,750,000 | 15,900,000 | 211 | 1051 | -0.220747825 | SPERT |
| 12 | 15,825,000 | 15,975,000 | 212 | 703 | -0.451809435 | SPERT |
| 12 | 15,900,000 | 16,050,000 | 213 | 1112 | 1.26185974 | |
| 12 | 15,975,000 | 16,125,000 | 214 | 1144 | 1.276768184 | ZC3H13 |
| 12 | 16,050,000 | 16,200,000 | 215 | 605 | 0.855840282 | CPB2,ZC3H13 |
| 12 | 16,125,000 | 16,275,000 | 216 | 849 | -0.044162156 | CPB2,LCP1,ZC3H13 |
| 12 | 16,200,000 | 16,350,000 | 217 | 1145 | -0.084198141 | CPB2,LCP1 |
| 12 | 16,275,000 | 16,425,000 | 218 | 1197 | -0.390732 | KIAA0226L,LCP1,LRRC63 |
| 12 | 16,350,000 | 16,500,000 | 219 | 1093 | 0.07602796 | KIAA0226L,LRRC63 |
| 12 | 16,425,000 | 16,575,000 | 220 | 901 | 0.056247292 | KIAA0226L,LRCH1 |
| 12 | 16,500,000 | 16,650,000 | 221 | 957 | -0.769469407 | LRCH1 |
| 12 | 16,575,000 | 16,725,000 | 222 | 808 | -0.187183023 | LRCH1 |
| 12 | 16,650,000 | 16,800,000 | 223 | 624 | -0.024950636 | ESD,LRCH1 |
| 12 | 16,725,000 | 16,875,000 | 224 | 688 | 0.141970613 | ESD,HTR2A,LRCH1 |
| 12 | 16,800,000 | 16,950,000 | 225 | 746 | 0.716594574 | HTR2A |
| 12 | 16,875,000 | 17,025,000 | 226 | 811 | 0.152544025 | HTR2A |
| 12 | 16,950,000 | 17,100,000 | 227 | 815 | -0.637874166 | |
| 12 | 17,025,000 | 17,175,000 | 228 | 840 | -0.008310266 | |
| 12 | 17,100,000 | 17,250,000 | 229 | 887 | 0.591007926 | |
| 12 | 17,175,000 | 17,325,000 | 230 | 880 | 0.805536511 | |
| 12 | 17,250,000 | 17,400,000 | 231 | 1051 | 0.897208343 | |
| 12 | 17,325,000 | 17,475,000 | 232 | 1015 | 0.975657253 | |
| 12 | 17,400,000 | 17,550,000 | 233 | 627 | 0.700189782 | |
| 12 | 17,475,000 | 17,625,000 | 234 | 582 | 0.983919754 | |
| 12 | 17,550,000 | 17,700,000 | 235 | 516 | 0.831292036 | |
| 12 | 17,625,000 | 17,775,000 | 236 | 956 | -1.821859566 | |
| 12 | 17,700,000 | 17,850,000 | 237 | 1429 | -3.318175251 | |
| 12 | 17,775,000 | 17,925,000 | 238 | 1145 | -3.252733489 | SUCLA2 |
| 12 | 17,850,000 | 18,000,000 | 239 | 1085 | 0.460645017 | MED4,NUDT15,SUCLA2 |
| 12 | 17,925,000 | 18,075,000 | 240 | 1026 | 0.43133408 | MED4,NUDT15,SUCLA2 |
| 12 | 18,000,000 | 18,150,000 | 241 | 1018 | 0.103972118 | ITM2B |
| 12 | 18,075,000 | 18,225,000 | 242 | 870 | 0.32754487 | ITM2B,RB1,ENSBTAG00000003560 |
| 12 | 18,150,000 | 18,300,000 | 243 | 793 | 0.432975999 | P2RY5,RB1,ENSBTAG00000003560 |
| 12 | 18,225,000 | 18,375,000 | 244 | 901 | 0.575449893 | P2RY5,RB1,RCBTB2 |
| 12 | 18,300,000 | 18,450,000 | 245 | 1034 | 1.277346997 | RB1,RCBTB2 |
| 12 | 18,375,000 | 18,525,000 | 246 | 1219 | 1.218705472 | |
| 12 | 18,450,000 | 18,600,000 | 247 | 1211 | 0.873976535 | CYSLTR2 |
| 12 | 18,525,000 | 18,675,000 | 248 | 1149 | 0.113638976 | CYSLTR2 |
| 12 | 18,600,000 | 18,750,000 | 249 | 952 | -3.595724734 | |
| 12 | 18,675,000 | 18,825,000 | 250 | 908 | -4.905965067 | |
| 12 | 18,750,000 | 18,900,000 | 251 | 729 | -2.662213879 | FNDC3A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------------|
| 12 | 18,825,000 | 18,975,000 | 252 | 578 | -0.719828318 | CDADC1,FNDC3A,MLNR |
| 12 | 18,900,000 | 19,050,000 | 253 | 924 | -1.503826823 | CAB39L,CDADC1,FNDC3A,MLNR |
| 12 | 18,975,000 | 19,125,000 | 254 | 1100 | -1.888420752 | CAB39L,CDADC1,SETDB2 |
| 12 | 19,050,000 | 19,200,000 | 255 | 898 | -1.416284663 | CAB39L,PHF11,RCBTB1,SETDB2 |
| 12 | 19,125,000 | 19,275,000 | 256 | 610 | -0.708431675 | PHF11,RCBTB1,SETDB2 |
| 12 | 19,200,000 | 19,350,000 | 257 | 587 | 0.089376383 | ARL11,EBPL,KPNA3,RCBTB1 |
| 12 | 19,275,000 | 19,425,000 | 258 | 508 | 0.391870975 | ARL11,EBPL,KPNA3 |
| 12 | 19,350,000 | 19,500,000 | 259 | 413 | 0.288905958 | KPNA3,SPRYD7 |
| 12 | 19,425,000 | 19,575,000 | 260 | 424 | 0.312464102 | KCNRG,SPRYD7,TRIM13 |
| 12 | 19,500,000 | 19,650,000 | 261 | 347 | 0.642321683 | KCNRG,SPRYD7,TRIM13 |
| 12 | 19,575,000 | 19,725,000 | 262 | 391 | 0.258318452 | |
| 12 | 19,650,000 | 19,800,000 | 263 | 457 | -0.195481008 | |
| 12 | 19,725,000 | 19,875,000 | 264 | 585 | 0.525933469 | |
| 12 | 19,800,000 | 19,950,000 | 265 | 582 | 0.884467369 | |
| 12 | 19,875,000 | 20,025,000 | 266 | 624 | 0.547452203 | |
| 12 | 19,950,000 | 20,100,000 | 267 | 732 | 0.65831729 | |
| 12 | 20,025,000 | 20,175,000 | 268 | 608 | 0.738322155 | |
| 12 | 20,100,000 | 20,250,000 | 269 | 843 | 0.722945437 | |
| 12 | 20,175,000 | 20,325,000 | 270 | 993 | 0.428615687 | |
| 12 | 20,250,000 | 20,400,000 | 271 | 715 | 0.07122736 | |
| 12 | 20,325,000 | 20,475,000 | 272 | 666 | -0.011620223 | RNASEH2B |
| 12 | 20,400,000 | 20,550,000 | 273 | 841 | 0.036488672 | RNASEH2B,ENSBTAG00000007457 |
| 12 | 20,475,000 | 20,625,000 | 274 | 883 | 0.448566047 | RNASEH2B,ENSBTAG00000007457 |
| 12 | 20,550,000 | 20,700,000 | 275 | 975 | 0.827832104 | ENSBTAG00000007457 |
| 12 | 20,625,000 | 20,775,000 | 276 | 1328 | 0.571443896 | FAM124A |
| 12 | 20,700,000 | 20,850,000 | 277 | 1511 | 0.507411049 | FAM124A |
| 12 | 20,775,000 | 20,925,000 | 278 | 966 | 0.465789734 | FAM124A,INTS6,SERPINE3 |
| 12 | 20,850,000 | 21,000,000 | 279 | 343 | 0.408868069 | INTS6,SERPINE3 |
| 12 | 20,925,000 | 21,075,000 | 280 | 361 | 0.728871611 | INTS6 |
| 12 | 21,000,000 | 21,150,000 | 281 | 424 | 0.197245075 | WDFY2 |
| 12 | 21,075,000 | 21,225,000 | 282 | 481 | -0.774194872 | WDFY2 |
| 12 | 21,150,000 | 21,300,000 | 283 | 505 | -0.498329656 | DHRS12,WDFY2 |
| 12 | 21,225,000 | 21,375,000 | 284 | 912 | -3.68818225 | CCDC70,DHRS12,WDFY2 |
| 12 | 21,300,000 | 21,450,000 | 285 | 1599 | -3.979337277 | ATP7B,CCDC70,DHRS12 |
| 12 | 21,375,000 | 21,525,000 | 286 | 1405 | -0.798029312 | ALG11,ATP7B,CCDC70,NEK5 |
| 12 | 21,450,000 | 21,600,000 | 287 | 971 | 1.036878062 | ALG11,ATP7B,NEK3,NEK5 |
| 12 | 21,525,000 | 21,675,000 | 288 | 730 | 1.376292657 | CKAP2,NEK3,NEK5,THSD1,VPS36 |
| 12 | 21,600,000 | 21,750,000 | 289 | 832 | 1.17569877 | CKAP2,THSD1,VPS36 |
| 12 | 21,675,000 | 21,825,000 | 290 | 1428 | 1.015299524 | SLC25A15,THSD1,ENSBTAG00000011654 |
| 12 | 21,750,000 | 21,900,000 | 291 | 1208 | 0.795613379 | MRPS31,SLC25A15,ENSBTAG00000011654 |
| 12 | 21,825,000 | 21,975,000 | 292 | 647 | -0.156945759 | FOXO1,MRPS31,SLC25A15 |
| 12 | 21,900,000 | 22,050,000 | 293 | 543 | -0.267633699 | FOXO1 |
| 12 | 21,975,000 | 22,125,000 | 294 | 401 | -0.729935487 | FOXO1 |
| 12 | 22,050,000 | 22,200,000 | 295 | 268 | -1.361548182 | |
| 12 | 22,125,000 | 22,275,000 | 296 | 271 | -0.327192083 | |
| 12 | 22,200,000 | 22,350,000 | 297 | 351 | 1.187957537 | |
| 12 | 22,275,000 | 22,425,000 | 298 | 360 | 0.753003569 | |
| 12 | 22,350,000 | 22,500,000 | 299 | 471 | 0.64511644 | |
| 12 | 22,425,000 | 22,575,000 | 300 | 698 | -0.282804659 | |
| 12 | 22,500,000 | 22,650,000 | 301 | 637 | -1.444300652 | |
| 12 | 22,575,000 | 22,725,000 | 302 | 500 | -0.509624536 | COG6 |
| 12 | 22,650,000 | 22,800,000 | 303 | 573 | 0.39655365 | COG6 |
| 12 | 22,725,000 | 22,875,000 | 304 | 945 | 0.187215713 | COG6,LHFP |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 12 | 22,800,000 | 22,950,000 | 305 | 1111 | 0.054563603 | LHFP |
| 12 | 22,875,000 | 23,025,000 | 306 | 892 | 0.332866639 | LHFP |
| 12 | 22,950,000 | 23,100,000 | 307 | 1038 | 0.657209618 | LHFP |
| 12 | 23,025,000 | 23,175,000 | 308 | 1325 | 0.941290363 | LHFP |
| 12 | 23,100,000 | 23,250,000 | 309 | 1156 | 0.088783774 | NHLRC3,PROSER1 |
| 12 | 23,175,000 | 23,325,000 | 310 | 1094 | -1.270145926 | FREM2,NHLRC3,PROSER1,STOML3 |
| 12 | 23,250,000 | 23,400,000 | 311 | 1185 | -0.298479638 | FREM2,PROSER1,STOML3 |
| 12 | 23,325,000 | 23,475,000 | 312 | 1090 | 0.60852196 | FREM2 |
| 12 | 23,400,000 | 23,550,000 | 313 | 1006 | -0.298027715 | FREM2 |
| 12 | 23,475,000 | 23,625,000 | 314 | 1005 | 0.339488398 | |
| 12 | 23,550,000 | 23,700,000 | 315 | 741 | 1.143531989 | |
| 12 | 23,625,000 | 23,775,000 | 316 | 464 | -0.376978481 | |
| 12 | 23,700,000 | 23,850,000 | 317 | 616 | -1.642545169 | |
| 12 | 23,775,000 | 23,925,000 | 318 | 680 | -1.180010427 | |
| 12 | 23,850,000 | 24,000,000 | 319 | 787 | 0.176171876 | |
| 12 | 23,925,000 | 24,075,000 | 320 | 846 | 0.722512873 | TRPC4 |
| 12 | 24,000,000 | 24,150,000 | 321 | 964 | 1.062784141 | TRPC4 |
| 12 | 24,075,000 | 24,225,000 | 322 | 933 | 0.562267116 | TRPC4 |
| 12 | 24,150,000 | 24,300,000 | 323 | 566 | -0.462270653 | POSTN,TRPC4 |
| 12 | 24,225,000 | 24,375,000 | 324 | 594 | 1.107460283 | POSTN |
| 12 | 24,300,000 | 24,450,000 | 325 | 1195 | 0.835475661 | |
| 12 | 24,375,000 | 24,525,000 | 326 | 1600 | 0.339259367 | |
| 12 | 24,450,000 | 24,600,000 | 327 | 1666 | -0.360936721 | |
| 12 | 24,525,000 | 24,675,000 | 328 | 1525 | -1.8416107 | FAM48A |
| 12 | 24,600,000 | 24,750,000 | 329 | 1027 | -2.60379407 | ALG5,EXOSC8,FAM48A |
| 12 | 24,675,000 | 24,825,000 | 330 | 704 | -1.208752648 | ALG5,EXOSC8,FAM48A,SMAD9 |
| 12 | 24,750,000 | 24,900,000 | 331 | 807 | -1.349724368 | RFXAP,SMAD9 |
| 12 | 24,825,000 | 24,975,000 | 332 | 805 | -0.663610214 | RFXAP,SERTM1 |
| 12 | 24,900,000 | 25,050,000 | 333 | 829 | 0.947546064 | SERTM1 |
| 12 | 24,975,000 | 25,125,000 | 334 | 1110 | 0.932331835 | |
| 12 | 25,050,000 | 25,200,000 | 335 | 1346 | 0.677639578 | CCNA1,SPG20 |
| 12 | 25,125,000 | 25,275,000 | 336 | 1151 | 1.026798237 | CCNA1,SPG20,ENSBTAG00000018955 |
| 12 | 25,200,000 | 25,350,000 | 337 | 859 | 1.227187202 | SPG20,ENSBTAG00000018955 |
| 12 | 25,275,000 | 25,425,000 | 338 | 1065 | -0.181285622 | DCLK1,ENSBTAG00000018955 |
| 12 | 25,350,000 | 25,500,000 | 339 | 1326 | -0.174526929 | DCLK1 |
| 12 | 25,425,000 | 25,575,000 | 340 | 1266 | 0.46210304 | DCLK1 |
| 12 | 25,500,000 | 25,650,000 | 341 | 1027 | 0.400222972 | DCLK1 |
| 12 | 25,575,000 | 25,725,000 | 342 | 919 | -0.102575698 | DCLK1 |
| 12 | 25,650,000 | 25,800,000 | 343 | 981 | -1.4228911 | DCLK1,NBEA |
| 12 | 25,725,000 | 25,875,000 | 344 | 900 | -1.399474493 | NBEA |
| 12 | 25,800,000 | 25,950,000 | 345 | 873 | 0.22257062 | NBEA |
| 12 | 25,875,000 | 26,025,000 | 346 | 738 | 0.450754042 | MAB21L1,NBEA |
| 12 | 25,950,000 | 26,100,000 | 347 | 673 | 0.713279534 | MAB21L1,NBEA |
| 12 | 26,025,000 | 26,175,000 | 348 | 955 | 0.820538042 | NBEA,ENSBTAG00000019268 |
| 12 | 26,100,000 | 26,250,000 | 349 | 696 | 0.824390392 | NBEA,ENSBTAG00000019268 |
| 12 | 26,175,000 | 26,325,000 | 350 | 448 | 1.004338988 | NBEA |
| 12 | 26,250,000 | 26,400,000 | 351 | 651 | 0.906671347 | NBEA |
| 12 | 26,325,000 | 26,475,000 | 352 | 787 | 0.708988979 | NBEA |
| 12 | 26,400,000 | 26,550,000 | 353 | 783 | 0.59325525 | |
| 12 | 26,475,000 | 26,625,000 | 354 | 765 | 0.379851664 | |
| 12 | 26,550,000 | 26,700,000 | 355 | 599 | -0.466832223 | |
| 12 | 26,625,000 | 26,775,000 | 356 | 528 | -1.03160356 | |
| 12 | 26,700,000 | 26,850,000 | 357 | 650 | -0.957921102 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 12 | 26,775,000 | 26,925,000 | 358 | 895 | 0.344079201 | |
| 12 | 26,850,000 | 27,000,000 | 359 | 922 | 0.809106439 | |
| 12 | 26,925,000 | 27,075,000 | 360 | 741 | 0.043042297 | |
| 12 | 27,000,000 | 27,150,000 | 361 | 761 | 0.557615667 | |
| 12 | 27,075,000 | 27,225,000 | 362 | 829 | 0.617400734 | |
| 12 | 27,150,000 | 27,300,000 | 363 | 858 | -0.292660646 | |
| 12 | 27,225,000 | 27,375,000 | 364 | 756 | -0.993364392 | |
| 12 | 27,300,000 | 27,450,000 | 365 | 607 | -0.829510872 | RFC3 |
| 12 | 27,375,000 | 27,525,000 | 366 | 553 | -0.622056607 | RFC3 |
| 12 | 27,450,000 | 27,600,000 | 367 | 430 | -2.012632552 | |
| 12 | 27,525,000 | 27,675,000 | 368 | 330 | -2.766997903 | |
| 12 | 27,600,000 | 27,750,000 | 369 | 448 | -0.91830391 | |
| 12 | 27,675,000 | 27,825,000 | 370 | 500 | 0.793432753 | |
| 12 | 27,750,000 | 27,900,000 | 371 | 388 | 0.713266659 | STARD13 |
| 12 | 27,825,000 | 27,975,000 | 372 | 405 | -1.122474257 | STARD13 |
| 12 | 27,900,000 | 28,050,000 | 373 | 485 | -0.552261645 | STARD13 |
| 12 | 27,975,000 | 28,125,000 | 374 | 468 | 0.307440213 | KL,STARD13 |
| 12 | 28,050,000 | 28,200,000 | 375 | 604 | -0.866878911 | KL |
| 12 | 28,125,000 | 28,275,000 | 376 | 530 | -1.725438127 | |
| 12 | 28,200,000 | 28,350,000 | 377 | 307 | -0.917349522 | PDS5B |
| 12 | 28,275,000 | 28,425,000 | 378 | 264 | 0.398076988 | PDS5B |
| 12 | 28,350,000 | 28,500,000 | 379 | 237 | -0.110380117 | PDS5B |
| 12 | 28,425,000 | 28,575,000 | 380 | 253 | 0.443817199 | PDS5B,ENSBTAG00000023279 |
| 12 | 28,500,000 | 28,650,000 | 381 | 289 | 0.637947884 | BRCA2,N4BP2L1,ENSBTAG00000023279 |
| 12 | 28,575,000 | 28,725,000 | 382 | 281 | 0.008983618 | BRCA2,N4BP2L1,ZAR1L |
| 12 | 28,650,000 | 28,800,000 | 383 | 247 | -0.379572945 | BRCA2,FRY,ZAR1L |
| 12 | 28,725,000 | 28,875,000 | 384 | 305 | 0.639810027 | FRY |
| 12 | 28,800,000 | 28,950,000 | 385 | 530 | 0.95869264 | FRY |
| 12 | 28,875,000 | 29,025,000 | 386 | 787 | -0.049308751 | FRY |
| 12 | 28,950,000 | 29,100,000 | 387 | 758 | -0.068816423 | FRY |
| 12 | 29,025,000 | 29,175,000 | 388 | 526 | 0.799636926 | |
| 12 | 29,100,000 | 29,250,000 | 389 | 362 | 0.328762999 | RXFP2 |
| 12 | 29,175,000 | 29,325,000 | 390 | 239 | -0.329593071 | RXFP2 |
| 12 | 29,250,000 | 29,400,000 | 391 | 217 | -1.469037404 | RXFP2 |
| 12 | 29,325,000 | 29,475,000 | 392 | 244 | -1.342263586 | |
| 12 | 29,400,000 | 29,550,000 | 393 | 265 | -0.457981845 | |
| 12 | 29,475,000 | 29,625,000 | 394 | 415 | 0.481924514 | |
| 12 | 29,550,000 | 29,700,000 | 395 | 928 | 0.552490994 | B3GALTL |
| 12 | 29,625,000 | 29,775,000 | 396 | 942 | 0.583196905 | B3GALTL |
| 12 | 29,700,000 | 29,850,000 | 397 | 619 | 0.783106907 | B3GALTL,HSPH1 |
| 12 | 29,775,000 | 29,925,000 | 398 | 973 | 1.005331282 | HSPH1,ENSBTAG00000016052 |
| 12 | 29,850,000 | 30,000,000 | 399 | 1090 | 0.816669348 | C12H13ORF26,ENSBTAG00000016052 |
| 12 | 29,925,000 | 30,075,000 | 400 | 736 | 0.141354924 | C12H13ORF26,MEDAG |
| 12 | 30,000,000 | 30,150,000 | 401 | 694 | -0.997281151 | ALOX5AP,C12H13ORF26,MEDAG |
| 12 | 30,075,000 | 30,225,000 | 402 | 895 | -0.30127969 | ALOX5AP,USPL1 |
| 12 | 30,150,000 | 30,300,000 | 403 | 852 | 0.823110388 | ALOX5AP,USPL1 |
| 12 | 30,225,000 | 30,375,000 | 404 | 793 | 0.475996274 | HMGB1,USPL1 |
| 12 | 30,300,000 | 30,450,000 | 405 | 1044 | 0.816340877 | HMGB1 |
| 12 | 30,375,000 | 30,525,000 | 406 | 1212 | 1.02726828 | KATNAL1 |
| 12 | 30,450,000 | 30,600,000 | 407 | 979 | 0.999591816 | KATNAL1 |
| 12 | 30,525,000 | 30,675,000 | 408 | 942 | 0.572644363 | KATNAL1 |
| 12 | 30,600,000 | 30,750,000 | 409 | 1126 | -1.474941922 | |
| 12 | 30,675,000 | 30,825,000 | 410 | 1153 | -1.726689338 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 12 | 30,750,000 | 30,900,000 | 411 | 982 | -0.497439221 | UBL3 |
| 12 | 30,825,000 | 30,975,000 | 412 | 847 | 0.728383716 | UBL3 |
| 12 | 30,900,000 | 31,050,000 | 413 | 879 | 1.095878414 | MTUS2,SLC7A1 |
| 12 | 30,975,000 | 31,125,000 | 414 | 1025 | 0.828779703 | MTUS2,SLC7A1 |
| 12 | 31,050,000 | 31,200,000 | 415 | 1333 | 0.338345444 | MTUS2 |
| 12 | 31,125,000 | 31,275,000 | 416 | 1571 | 0.859439055 | MTUS2 |
| 12 | 31,200,000 | 31,350,000 | 417 | 1349 | 1.319705734 | MTUS2 |
| 12 | 31,275,000 | 31,425,000 | 418 | 1192 | 0.392690842 | MTUS2 |
| 12 | 31,350,000 | 31,500,000 | 419 | 940 | -0.044019003 | POMP,SLC46A3 |
| 12 | 31,425,000 | 31,575,000 | 420 | 489 | 0.449430206 | POMP,SLC46A3 |
| 12 | 31,500,000 | 31,650,000 | 421 | 451 | -0.897509146 | POMP |
| 12 | 31,575,000 | 31,725,000 | 422 | 416 | -0.970810437 | FLT1 |
| 12 | 31,650,000 | 31,800,000 | 423 | 477 | -0.343241955 | FLT1 |
| 12 | 31,725,000 | 31,875,000 | 424 | 468 | -1.057620507 | FLT1,PAN3 |
| 12 | 31,800,000 | 31,950,000 | 425 | 271 | -1.320105444 | FLT1,PAN3 |
| 12 | 31,875,000 | 32,025,000 | 426 | 255 | -1.374710758 | PAN3 |
| 12 | 31,950,000 | 32,100,000 | 427 | 744 | -4.367998098 | |
| 12 | 32,025,000 | 32,175,000 | 428 | 1424 | -2.929777658 | |
| 12 | 32,100,000 | 32,250,000 | 429 | 1730 | -0.380724908 | FLT3 |
| 12 | 32,175,000 | 32,325,000 | 430 | 1175 | 0.125589833 | CDX2,FLT3,URAD |
| 12 | 32,250,000 | 32,400,000 | 431 | 460 | -0.251858755 | CDX2,FLT3,PDX1,URAD |
| 12 | 32,325,000 | 32,475,000 | 432 | 373 | 0.836984583 | GSX1,PDX1 |
| 12 | 32,400,000 | 32,550,000 | 433 | 553 | 0.59353226 | GSX1,POLR1D |
| 12 | 32,475,000 | 32,625,000 | 434 | 633 | 0.402092384 | LNK2,POLR1D |
| 12 | 32,550,000 | 32,700,000 | 435 | 654 | 0.679503871 | LNK2,POLR1D |
| 12 | 32,625,000 | 32,775,000 | 436 | 723 | 0.532578992 | GTF3A,LNK2,MTIF3 |
| 12 | 32,700,000 | 32,850,000 | 437 | 606 | 0.005945695 | GTF3A,MTIF3,RASL11A |
| 12 | 32,775,000 | 32,925,000 | 438 | 440 | 0.151829341 | RASL11A,RPL21,USP12 |
| 12 | 32,850,000 | 33,000,000 | 439 | 366 | -1.366637687 | RPL21,USP12 |
| 12 | 32,925,000 | 33,075,000 | 440 | 540 | -2.076087508 | USP12 |
| 12 | 33,000,000 | 33,150,000 | 441 | 708 | -1.132714613 | GPR12 |
| 12 | 33,075,000 | 33,225,000 | 442 | 771 | -0.991090668 | GPR12,WASF3 |
| 12 | 33,150,000 | 33,300,000 | 443 | 932 | -0.521384952 | WASF3 |
| 12 | 33,225,000 | 33,375,000 | 444 | 715 | 0.603980772 | CDK8 |
| 12 | 33,300,000 | 33,450,000 | 445 | 327 | 0.620177336 | CDK8,RNF6 |
| 12 | 33,375,000 | 33,525,000 | 446 | 499 | 0.792175777 | RNF6,ENSBTAG00000025428 |
| 12 | 33,450,000 | 33,600,000 | 447 | 824 | 1.190963596 | SHISA2,ENSBTAG00000025428 |
| 12 | 33,525,000 | 33,675,000 | 448 | 778 | 1.011279938 | SHISA2,ENSBTAG00000025428 |
| 12 | 33,600,000 | 33,750,000 | 449 | 750 | 0.065269124 | |
| 12 | 33,675,000 | 33,825,000 | 450 | 919 | -1.385675477 | ATP8A2 |
| 12 | 33,750,000 | 33,900,000 | 451 | 744 | -2.186646758 | ATP8A2 |
| 12 | 33,825,000 | 33,975,000 | 452 | 421 | -1.311759146 | ATP8A2 |
| 12 | 33,900,000 | 34,050,000 | 453 | 429 | -2.295398072 | ATP8A2 |
| 12 | 33,975,000 | 34,125,000 | 454 | 505 | -0.479301312 | ATP8A2 |
| 12 | 34,050,000 | 34,200,000 | 455 | 367 | 0.908902114 | ATP8A2,MTMR6,NUPL1 |
| 12 | 34,125,000 | 34,275,000 | 456 | 310 | 0.96722155 | MTMR6,NUPL1 |
| 12 | 34,200,000 | 34,350,000 | 457 | 324 | 0.653887519 | |
| 12 | 34,275,000 | 34,425,000 | 458 | 579 | 0.840887241 | |
| 12 | 34,350,000 | 34,500,000 | 459 | 844 | 1.132728725 | ENSBTAG00000019545 |
| 12 | 34,425,000 | 34,575,000 | 460 | 724 | 1.117645827 | C1QTNF9,MIPEP,ENSBTAG00000019545 |
| 12 | 34,500,000 | 34,650,000 | 461 | 795 | 0.661620116 | C1QTNF9,MIPEP,ENSBTAG00000019545 |
| 12 | 34,575,000 | 34,725,000 | 462 | 710 | 0.380927329 | MIPEP,TNFRSF19 |
| 12 | 34,650,000 | 34,800,000 | 463 | 571 | 0.397725502 | TNFRSF19 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 12 | 34,725,000 | 34,875,000 | 464 | 610 | 0.263947376 | TNFRSF19 |
| 12 | 34,800,000 | 34,950,000 | 465 | 484 | -0.715453325 | SACS,SGCG |
| 12 | 34,875,000 | 35,025,000 | 466 | 373 | -0.531460139 | SACS,SGCG |
| 12 | 34,950,000 | 35,100,000 | 467 | 429 | 0.096802052 | SGCG |
| 12 | 35,025,000 | 35,175,000 | 468 | 397 | 0.235748438 | |
| 12 | 35,100,000 | 35,250,000 | 469 | 263 | 0.828790855 | |
| 12 | 35,175,000 | 35,325,000 | 470 | 338 | -0.302565727 | |
| 12 | 35,250,000 | 35,400,000 | 471 | 415 | -2.104225051 | |
| 12 | 35,325,000 | 35,475,000 | 472 | 501 | -0.028795312 | |
| 12 | 35,400,000 | 35,550,000 | 473 | 468 | 0.370855249 | |
| 12 | 35,475,000 | 35,625,000 | 474 | 335 | -2.327290727 | |
| 12 | 35,550,000 | 35,700,000 | 475 | 377 | -1.529653829 | FGF9 |
| 12 | 35,625,000 | 35,775,000 | 476 | 363 | 0.599750336 | EFHA1,FGF9 |
| 12 | 35,700,000 | 35,850,000 | 477 | 345 | 1.323835777 | EFHA1,MRPL57,SKA3,ZDHHC20 |
| 12 | 35,775,000 | 35,925,000 | 478 | 391 | 1.124998286 | LATS2,MRPL57,SAP18,SKA3,ZDHHC20 |
| 12 | 35,850,000 | 36,000,000 | 479 | 370 | 0.460975258 | LATS2,SAP18,SKA3,XPO4 |
| 12 | 35,925,000 | 36,075,000 | 480 | 296 | -0.060709164 | LATS2,N6AMT2,XPO4 |
| 12 | 36,000,000 | 36,150,000 | 481 | 216 | 0.132800089 | IFT88,IL17D,N6AMT2,XPO4 |
| 12 | 36,075,000 | 36,225,000 | 482 | 216 | -0.179623442 | CRYL1,IFT88,IL17D,N6AMT2 |
| 12 | 36,150,000 | 36,300,000 | 483 | 458 | -0.577530755 | CRYL1,IFT88 |
| 12 | 36,225,000 | 36,375,000 | 484 | 461 | -0.749660484 | CRYL1,GJA3,GJB2,GJB6 |
| 12 | 36,300,000 | 36,450,000 | 485 | 232 | -0.644921342 | GJA3,GJB2,GJB6,ZMYM2 |
| 12 | 36,375,000 | 36,525,000 | 486 | 244 | -1.531071645 | ZMYM2,ZMYM5 |
| 12 | 36,450,000 | 36,600,000 | 487 | 321 | -2.525414393 | PSPC1,ZMYM2,ZMYM5 |
| 12 | 36,525,000 | 36,675,000 | 488 | 340 | -2.258609456 | MPHOSPH8,PARP4,PSPC1 |
| 12 | 36,600,000 | 36,750,000 | 489 | 299 | -1.304890026 | CENPJ,MPHOSPH8,PARP4 |
| 12 | 36,675,000 | 36,825,000 | 490 | 253 | -0.804531968 | CENPJ,PARP4,RNF17 |
| 12 | 36,750,000 | 36,900,000 | 491 | 216 | -0.673550455 | CENPJ,RNF17 |
| 12 | 36,825,000 | 36,975,000 | 492 | 190 | -0.817668368 | ATP12A,RNF17 |
| 12 | 36,900,000 | 37,050,000 | 493 | 222 | -0.82756477 | ATP12A |
| 12 | 36,975,000 | 37,125,000 | 494 | 364 | -0.735210183 | |
| 12 | 37,050,000 | 37,200,000 | 495 | 381 | -1.068153387 | |
| 12 | 37,125,000 | 37,275,000 | 496 | 451 | 0.51701447 | |
| 12 | 37,200,000 | 37,350,000 | 497 | 832 | 1.239840035 | |
| 12 | 37,275,000 | 37,425,000 | 498 | 1430 | 1.01942549 | |
| 12 | 37,350,000 | 37,500,000 | 499 | 1467 | 0.540529217 | |
| 12 | 37,425,000 | 37,575,000 | 500 | 1050 | -0.198799457 | |
| 12 | 37,500,000 | 37,650,000 | 501 | 891 | 0.340547193 | |
| 12 | 37,575,000 | 37,725,000 | 502 | 1276 | -0.044978446 | |
| 12 | 37,650,000 | 37,800,000 | 503 | 1204 | -0.971431434 | ENSBTAG00000014274 |
| 12 | 37,725,000 | 37,875,000 | 504 | 452 | -1.0152566 | ENSBTAG00000014274 |
| 12 | 37,800,000 | 37,950,000 | 505 | 229 | 1.130129296 | |
| 12 | 37,875,000 | 38,025,000 | 506 | 236 | 0.805770083 | |
| 12 | 37,950,000 | 38,100,000 | 507 | 241 | 0.436149687 | |
| 12 | 38,025,000 | 38,175,000 | 508 | 475 | 0.225634358 | |
| 12 | 38,100,000 | 38,250,000 | 509 | 560 | 0.441690958 | |
| 12 | 38,175,000 | 38,325,000 | 510 | 412 | 1.114154766 | |
| 12 | 38,250,000 | 38,400,000 | 511 | 406 | 1.260040247 | |
| 12 | 38,325,000 | 38,475,000 | 512 | 373 | 1.284152685 | |
| 12 | 38,400,000 | 38,550,000 | 513 | 338 | 1.283294453 | |
| 12 | 38,475,000 | 38,625,000 | 514 | 339 | 1.120931341 | |
| 12 | 38,550,000 | 38,700,000 | 515 | 331 | 1.058264895 | |
| 12 | 38,625,000 | 38,775,000 | 516 | 351 | 1.084393661 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 38,700,000 | 38,850,000 | 517 | 430 | -0.287752231 | |
| 12 | 38,775,000 | 38,925,000 | 518 | 878 | -4.358392606 | |
| 12 | 38,850,000 | 39,000,000 | 519 | 1086 | -3.892121752 | |
| 12 | 38,925,000 | 39,075,000 | 520 | 796 | -0.274390143 | |
| 12 | 39,000,000 | 39,150,000 | 521 | 692 | -0.631621798 | |
| 12 | 39,075,000 | 39,225,000 | 522 | 601 | -0.76560117 | |
| 12 | 39,150,000 | 39,300,000 | 523 | 530 | -0.338011833 | |
| 12 | 39,225,000 | 39,375,000 | 524 | 585 | -0.631010932 | |
| 12 | 39,300,000 | 39,450,000 | 525 | 578 | -0.210612847 | |
| 12 | 39,375,000 | 39,525,000 | 526 | 517 | 0.442810748 | |
| 12 | 39,450,000 | 39,600,000 | 527 | 896 | 0.448683923 | |
| 12 | 39,525,000 | 39,675,000 | 528 | 1036 | -1.30082262 | |
| 12 | 39,600,000 | 39,750,000 | 529 | 650 | -2.710861674 | |
| 12 | 39,675,000 | 39,825,000 | 530 | 516 | -1.328890122 | |
| 12 | 39,750,000 | 39,900,000 | 531 | 703 | -0.334883131 | |
| 12 | 39,825,000 | 39,975,000 | 532 | 796 | 0.181438369 | ENSBTAG00000032984 |
| 12 | 39,900,000 | 40,050,000 | 533 | 752 | -0.473523019 | ENSBTAG00000032984 |
| 12 | 39,975,000 | 40,125,000 | 534 | 856 | -0.163767253 | |
| 12 | 40,050,000 | 40,200,000 | 535 | 632 | 0.245853343 | |
| 12 | 40,125,000 | 40,275,000 | 536 | 557 | -0.247864408 | |
| 12 | 40,200,000 | 40,350,000 | 537 | 772 | 0.177510211 | |
| 12 | 40,275,000 | 40,425,000 | 538 | 588 | 0.726696141 | |
| 12 | 40,350,000 | 40,500,000 | 539 | 525 | 0.384085818 | |
| 12 | 40,425,000 | 40,575,000 | 540 | 727 | 0.050970607 | |
| 12 | 40,500,000 | 40,650,000 | 541 | 741 | -0.022849429 | |
| 12 | 40,575,000 | 40,725,000 | 542 | 649 | 0.437984958 | ENSBTAG00000047831 |
| 12 | 40,650,000 | 40,800,000 | 543 | 409 | 0.610177045 | ENSBTAG00000047831 |
| 12 | 40,725,000 | 40,875,000 | 544 | 319 | -4.566672509 | |
| 12 | 40,800,000 | 40,950,000 | 545 | 382 | -5.377032245 | PCDH9 |
| 12 | 40,875,000 | 41,025,000 | 546 | 528 | 0.589886758 | PCDH9 |
| 12 | 40,950,000 | 41,100,000 | 547 | 874 | 1.211832869 | |
| 12 | 41,025,000 | 41,175,000 | 548 | 740 | 1.10097248 | |
| 12 | 41,100,000 | 41,250,000 | 549 | 719 | 0.211752169 | |
| 12 | 41,175,000 | 41,325,000 | 550 | 726 | -0.500852957 | |
| 12 | 41,250,000 | 41,400,000 | 551 | 532 | -0.449744135 | |
| 12 | 41,325,000 | 41,475,000 | 552 | 491 | -0.281562222 | |
| 12 | 41,400,000 | 41,550,000 | 553 | 362 | -0.04290966 | |
| 12 | 41,475,000 | 41,625,000 | 554 | 516 | -0.133737309 | |
| 12 | 41,550,000 | 41,700,000 | 555 | 752 | -1.433500088 | |
| 12 | 41,625,000 | 41,775,000 | 556 | 970 | -3.182867881 | |
| 12 | 41,700,000 | 41,850,000 | 557 | 1045 | -3.712269053 | |
| 12 | 41,775,000 | 41,925,000 | 558 | 898 | -2.45253096 | ENSBTAG00000032979 |
| 12 | 41,850,000 | 42,000,000 | 559 | 702 | -0.382984142 | ENSBTAG00000032979 |
| 12 | 41,925,000 | 42,075,000 | 560 | 1153 | 0.043648438 | |
| 12 | 42,000,000 | 42,150,000 | 561 | 1463 | -1.564528002 | |
| 12 | 42,075,000 | 42,225,000 | 562 | 919 | -2.733502971 | |
| 12 | 42,150,000 | 42,300,000 | 563 | 493 | -0.678553168 | |
| 12 | 42,225,000 | 42,375,000 | 564 | 477 | 0.557829396 | |
| 12 | 42,300,000 | 42,450,000 | 565 | 724 | 0.970271292 | |
| 12 | 42,375,000 | 42,525,000 | 566 | 737 | 0.61953486 | |
| 12 | 42,450,000 | 42,600,000 | 567 | 583 | -0.555433186 | |
| 12 | 42,525,000 | 42,675,000 | 568 | 476 | -0.622719062 | |
| 12 | 42,600,000 | 42,750,000 | 569 | 394 | -0.57924003 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 42,675,000 | 42,825,000 | 570 | 369 | -0.230627966 | |
| 12 | 42,750,000 | 42,900,000 | 571 | 643 | 0.474862747 | |
| 12 | 42,825,000 | 42,975,000 | 572 | 746 | -0.986556833 | |
| 12 | 42,900,000 | 43,050,000 | 573 | 877 | -2.361412449 | |
| 12 | 42,975,000 | 43,125,000 | 574 | 952 | -1.298178749 | |
| 12 | 43,050,000 | 43,200,000 | 575 | 676 | 0.228438914 | |
| 12 | 43,125,000 | 43,275,000 | 576 | 619 | 1.176471836 | |
| 12 | 43,200,000 | 43,350,000 | 577 | 484 | 1.492502371 | |
| 12 | 43,275,000 | 43,425,000 | 578 | 519 | 1.169769941 | |
| 12 | 43,350,000 | 43,500,000 | 579 | 1044 | -0.145432322 | |
| 12 | 43,425,000 | 43,575,000 | 580 | 1102 | -0.356048218 | |
| 12 | 43,500,000 | 43,650,000 | 581 | 726 | -4.462204359 | |
| 12 | 43,575,000 | 43,725,000 | 582 | 560 | -9.197328416 | |
| 12 | 43,650,000 | 43,800,000 | 583 | 624 | -5.427716945 | |
| 12 | 43,725,000 | 43,875,000 | 584 | 594 | -1.485019223 | |
| 12 | 43,800,000 | 43,950,000 | 585 | 354 | 0.219519258 | |
| 12 | 43,875,000 | 44,025,000 | 586 | 370 | -0.686727359 | |
| 12 | 43,950,000 | 44,100,000 | 587 | 394 | -2.367465047 | |
| 12 | 44,025,000 | 44,175,000 | 588 | 401 | -1.114109801 | |
| 12 | 44,100,000 | 44,250,000 | 589 | 732 | -0.06315576 | |
| 12 | 44,175,000 | 44,325,000 | 590 | 883 | 0.333090535 | KLHL1 |
| 12 | 44,250,000 | 44,400,000 | 591 | 1179 | 0.372886815 | KLHL1 |
| 12 | 44,325,000 | 44,475,000 | 592 | 1549 | 0.440658505 | KLHL1 |
| 12 | 44,400,000 | 44,550,000 | 593 | 1194 | 0.723822238 | KLHL1 |
| 12 | 44,475,000 | 44,625,000 | 594 | 916 | 0.734057285 | KLHL1 |
| 12 | 44,550,000 | 44,700,000 | 595 | 814 | -0.24695268 | KLHL1 |
| 12 | 44,625,000 | 44,775,000 | 596 | 808 | -0.589988926 | |
| 12 | 44,700,000 | 44,850,000 | 597 | 1013 | 0.628184203 | ENSBTAG00000046942 |
| 12 | 44,775,000 | 44,925,000 | 598 | 1220 | 1.214233608 | ENSBTAG00000046942 |
| 12 | 44,850,000 | 45,000,000 | 599 | 1233 | 1.210246943 | |
| 12 | 44,925,000 | 45,075,000 | 600 | 853 | 0.986707182 | |
| 12 | 45,000,000 | 45,150,000 | 601 | 543 | 0.894856778 | |
| 12 | 45,075,000 | 45,225,000 | 602 | 665 | 1.169836997 | |
| 12 | 45,150,000 | 45,300,000 | 603 | 708 | 0.333335143 | |
| 12 | 45,225,000 | 45,375,000 | 604 | 567 | -0.340303033 | |
| 12 | 45,300,000 | 45,450,000 | 605 | 719 | -0.556575005 | |
| 12 | 45,375,000 | 45,525,000 | 606 | 710 | -1.017666768 | |
| 12 | 45,450,000 | 45,600,000 | 607 | 961 | -2.505266627 | |
| 12 | 45,525,000 | 45,675,000 | 608 | 1222 | -2.154954777 | |
| 12 | 45,600,000 | 45,750,000 | 609 | 970 | -0.360345633 | |
| 12 | 45,675,000 | 45,825,000 | 610 | 750 | 0.341561671 | |
| 12 | 45,750,000 | 45,900,000 | 611 | 614 | 0.844556091 | |
| 12 | 45,825,000 | 45,975,000 | 612 | 918 | 0.142205596 | |
| 12 | 45,900,000 | 46,050,000 | 613 | 917 | 0.1912655 | |
| 12 | 45,975,000 | 46,125,000 | 614 | 532 | 0.160581995 | |
| 12 | 46,050,000 | 46,200,000 | 615 | 737 | -0.094144577 | |
| 12 | 46,125,000 | 46,275,000 | 616 | 1030 | -0.263047632 | |
| 12 | 46,200,000 | 46,350,000 | 617 | 1078 | 0.311288787 | |
| 12 | 46,275,000 | 46,425,000 | 618 | 960 | 1.026357254 | DACH1 |
| 12 | 46,350,000 | 46,500,000 | 619 | 665 | 0.193183697 | DACH1 |
| 12 | 46,425,000 | 46,575,000 | 620 | 377 | -0.799442575 | DACH1 |
| 12 | 46,500,000 | 46,650,000 | 621 | 379 | -0.152240413 | |
| 12 | 46,575,000 | 46,725,000 | 622 | 789 | 0.539233119 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 12 | 46,650,000 | 46,800,000 | 623 | 899 | 0.57780152 | |
| 12 | 46,725,000 | 46,875,000 | 624 | 522 | 0.63727586 | |
| 12 | 46,800,000 | 46,950,000 | 625 | 424 | 0.434864403 | |
| 12 | 46,875,000 | 47,025,000 | 626 | 647 | 0.045094331 | |
| 12 | 46,950,000 | 47,100,000 | 627 | 668 | 0.136890024 | |
| 12 | 47,025,000 | 47,175,000 | 628 | 634 | 0.586831927 | |
| 12 | 47,100,000 | 47,250,000 | 629 | 651 | 0.864791758 | |
| 12 | 47,175,000 | 47,325,000 | 630 | 804 | -0.294926227 | |
| 12 | 47,250,000 | 47,400,000 | 631 | 1256 | 0.513252566 | |
| 12 | 47,325,000 | 47,475,000 | 632 | 1052 | 0.698561593 | |
| 12 | 47,400,000 | 47,550,000 | 633 | 565 | -0.036970525 | |
| 12 | 47,475,000 | 47,625,000 | 634 | 847 | 0.003459103 | |
| 12 | 47,550,000 | 47,700,000 | 635 | 1001 | -0.106566191 | |
| 12 | 47,625,000 | 47,775,000 | 636 | 1030 | 0.001987084 | MZT1 |
| 12 | 47,700,000 | 47,850,000 | 637 | 940 | -0.109674755 | BORA,DIS3,MZT1,PIBF1 |
| 12 | 47,775,000 | 47,925,000 | 638 | 544 | 0.032502811 | BORA,DIS3,MZT1,PIBF1 |
| 12 | 47,850,000 | 48,000,000 | 639 | 421 | 0.448252123 | PIBF1 |
| 12 | 47,925,000 | 48,075,000 | 640 | 414 | -1.025753378 | PIBF1 |
| 12 | 48,000,000 | 48,150,000 | 641 | 554 | -2.19385222 | KLF5,PIBF1 |
| 12 | 48,075,000 | 48,225,000 | 642 | 647 | -0.542665576 | KLF5 |
| 12 | 48,150,000 | 48,300,000 | 643 | 784 | 1.117328762 | |
| 12 | 48,225,000 | 48,375,000 | 644 | 962 | 1.052134578 | |
| 12 | 48,300,000 | 48,450,000 | 645 | 725 | 0.752824776 | |
| 12 | 48,375,000 | 48,525,000 | 646 | 528 | 0.791848613 | |
| 12 | 48,450,000 | 48,600,000 | 647 | 739 | 0.033467973 | |
| 12 | 48,525,000 | 48,675,000 | 648 | 764 | 0.15904879 | |
| 12 | 48,600,000 | 48,750,000 | 649 | 653 | 0.929773137 | |
| 12 | 48,675,000 | 48,825,000 | 650 | 660 | 1.101234831 | |
| 12 | 48,750,000 | 48,900,000 | 651 | 531 | 0.799151147 | KLF12 |
| 12 | 48,825,000 | 48,975,000 | 652 | 820 | -0.18281154 | KLF12 |
| 12 | 48,900,000 | 49,050,000 | 653 | 1093 | -0.355810606 | KLF12 |
| 12 | 48,975,000 | 49,125,000 | 654 | 898 | -0.328149282 | KLF12 |
| 12 | 49,050,000 | 49,200,000 | 655 | 557 | -2.005936224 | KLF12 |
| 12 | 49,125,000 | 49,275,000 | 656 | 322 | -3.638162537 | |
| 12 | 49,200,000 | 49,350,000 | 657 | 313 | -1.187853145 | |
| 12 | 49,275,000 | 49,425,000 | 658 | 494 | 0.679564532 | |
| 12 | 49,350,000 | 49,500,000 | 659 | 941 | 0.417470587 | |
| 12 | 49,425,000 | 49,575,000 | 660 | 1028 | 0.451322177 | |
| 12 | 49,500,000 | 49,650,000 | 661 | 999 | 0.882794432 | |
| 12 | 49,575,000 | 49,725,000 | 662 | 1694 | 1.043461758 | |
| 12 | 49,650,000 | 49,800,000 | 663 | 1733 | 0.917064629 | |
| 12 | 49,725,000 | 49,875,000 | 664 | 1190 | 0.795819168 | |
| 12 | 49,800,000 | 49,950,000 | 665 | 1188 | 0.603059773 | |
| 12 | 49,875,000 | 50,025,000 | 666 | 1043 | 0.458683205 | |
| 12 | 49,950,000 | 50,100,000 | 667 | 968 | 0.658873904 | |
| 12 | 50,025,000 | 50,175,000 | 668 | 1287 | 0.814377663 | |
| 12 | 50,100,000 | 50,250,000 | 669 | 1538 | 0.912326136 | |
| 12 | 50,175,000 | 50,325,000 | 670 | 1440 | 0.997238596 | |
| 12 | 50,250,000 | 50,400,000 | 671 | 1396 | 0.865393252 | |
| 12 | 50,325,000 | 50,475,000 | 672 | 1391 | 0.81480375 | |
| 12 | 50,400,000 | 50,550,000 | 673 | 1575 | 0.831590678 | |
| 12 | 50,475,000 | 50,625,000 | 674 | 1529 | 0.152891537 | |
| 12 | 50,550,000 | 50,700,000 | 675 | 1052 | 0.684965635 | TBC1D4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 12 | 50,625,000 | 50,775,000 | 676 | 1195 | 0.643637669 | TBC1D4 |
| 12 | 50,700,000 | 50,850,000 | 677 | 1242 | -0.969468839 | TBC1D4 |
| 12 | 50,775,000 | 50,925,000 | 678 | 1038 | -1.555288617 | TBC1D4 |
| 12 | 50,850,000 | 51,000,000 | 679 | 949 | -0.805571732 | TBC1D4,UCHL3 |
| 12 | 50,925,000 | 51,075,000 | 680 | 560 | -0.420211771 | UCHL3,ENSBTAG00000010680 |
| 12 | 51,000,000 | 51,150,000 | 681 | 496 | 0.077002844 | LMO7,ENSBTAG00000010680 |
| 12 | 51,075,000 | 51,225,000 | 682 | 761 | 0.819059986 | LMO7 |
| 12 | 51,150,000 | 51,300,000 | 683 | 1143 | 0.407538099 | LMO7 |
| 12 | 51,225,000 | 51,375,000 | 684 | 1443 | -0.881725456 | LMO7,ENSBTAG00000032878 |
| 12 | 51,300,000 | 51,450,000 | 685 | 1457 | -0.560767057 | ENSBTAG00000032878 |
| 12 | 51,375,000 | 51,525,000 | 686 | 1224 | 0.213875212 | |
| 12 | 51,450,000 | 51,600,000 | 687 | 751 | 0.20172183 | |
| 12 | 51,525,000 | 51,675,000 | 688 | 853 | 0.301627719 | |
| 12 | 51,600,000 | 51,750,000 | 689 | 1071 | -0.492857008 | |
| 12 | 51,675,000 | 51,825,000 | 690 | 906 | -1.187377745 | |
| 12 | 51,750,000 | 51,900,000 | 691 | 750 | -0.098785281 | |
| 12 | 51,825,000 | 51,975,000 | 692 | 559 | 0.555976571 | |
| 12 | 51,900,000 | 52,050,000 | 693 | 699 | -0.484479531 | |
| 12 | 51,975,000 | 52,125,000 | 694 | 1190 | -0.4433014 | |
| 12 | 52,050,000 | 52,200,000 | 695 | 1055 | 0.081370386 | |
| 12 | 52,125,000 | 52,275,000 | 696 | 728 | 0.499741546 | |
| 12 | 52,200,000 | 52,350,000 | 697 | 595 | 0.746273495 | |
| 12 | 52,275,000 | 52,425,000 | 698 | 398 | 0.524305728 | IRG1,KCTD12 |
| 12 | 52,350,000 | 52,500,000 | 699 | 538 | 0.610249513 | CLN5,FBXL3,IRG1,KCTD12,MYCBP2 |
| 12 | 52,425,000 | 52,575,000 | 700 | 514 | 0.641500533 | CLN5,FBXL3,MYCBP2 |
| 12 | 52,500,000 | 52,650,000 | 701 | 380 | 8.12E-05 | MYCBP2 |
| 12 | 52,575,000 | 52,725,000 | 702 | 368 | 0.065711444 | MYCBP2 |
| 12 | 52,650,000 | 52,800,000 | 703 | 318 | 0.263903409 | MYCBP2 |
| 12 | 52,725,000 | 52,875,000 | 704 | 495 | 0.405278905 | MYCBP2 |
| 12 | 52,800,000 | 52,950,000 | 705 | 726 | 0.397474414 | |
| 12 | 52,875,000 | 53,025,000 | 706 | 1016 | 0.050348145 | |
| 12 | 52,950,000 | 53,100,000 | 707 | 1214 | 0.170844272 | SCEL |
| 12 | 53,025,000 | 53,175,000 | 708 | 1161 | 0.55900505 | SCEL |
| 12 | 53,100,000 | 53,250,000 | 709 | 1027 | 0.046340133 | SCEL,SLAIN1 |
| 12 | 53,175,000 | 53,325,000 | 710 | 996 | -1.06005659 | EDNRB,SLAIN1 |
| 12 | 53,250,000 | 53,400,000 | 711 | 982 | -1.815166525 | EDNRB |
| 12 | 53,325,000 | 53,475,000 | 712 | 912 | -0.772886186 | EDNRB |
| 12 | 53,400,000 | 53,550,000 | 713 | 1080 | 0.566712841 | EDNRB |
| 12 | 53,475,000 | 53,625,000 | 714 | 1210 | 0.588820001 | |
| 12 | 53,550,000 | 53,700,000 | 715 | 1261 | 0.077266463 | |
| 12 | 53,625,000 | 53,775,000 | 716 | 1396 | 0.541949364 | |
| 12 | 53,700,000 | 53,850,000 | 717 | 1429 | 0.70480103 | |
| 12 | 53,775,000 | 53,925,000 | 718 | 1197 | 0.27057059 | |
| 12 | 53,850,000 | 54,000,000 | 719 | 1057 | 0.165423885 | |
| 12 | 53,925,000 | 54,075,000 | 720 | 1079 | 0.851575165 | |
| 12 | 54,000,000 | 54,150,000 | 721 | 841 | 1.182041502 | RNF219 |
| 12 | 54,075,000 | 54,225,000 | 722 | 953 | 0.917122336 | RNF219 |
| 12 | 54,150,000 | 54,300,000 | 723 | 1208 | 0.975291944 | |
| 12 | 54,225,000 | 54,375,000 | 724 | 1469 | 0.885246152 | |
| 12 | 54,300,000 | 54,450,000 | 725 | 1644 | -0.533679602 | |
| 12 | 54,375,000 | 54,525,000 | 726 | 1234 | -0.590402507 | |
| 12 | 54,450,000 | 54,600,000 | 727 | 990 | 0.590631507 | |
| 12 | 54,525,000 | 54,675,000 | 728 | 867 | 0.807101606 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 12 | 54,600,000 | 54,750,000 | 729 | 884 | 0.916189089 | |
| 12 | 54,675,000 | 54,825,000 | 730 | 665 | 0.323733741 | RBM26 |
| 12 | 54,750,000 | 54,900,000 | 731 | 436 | -0.13121787 | RBM26 |
| 12 | 54,825,000 | 54,975,000 | 732 | 486 | -0.232636529 | NDFIP2,RBM26 |
| 12 | 54,900,000 | 55,050,000 | 733 | 693 | -0.769306425 | NDFIP2,ENSBTAG00000032727 |
| 12 | 54,975,000 | 55,125,000 | 734 | 901 | -0.470283209 | NDFIP2,ENSBTAG00000032727 |
| 12 | 55,050,000 | 55,200,000 | 735 | 585 | -0.059723901 | |
| 12 | 55,125,000 | 55,275,000 | 736 | 313 | 0.234759567 | |
| 12 | 55,200,000 | 55,350,000 | 737 | 331 | -0.548432538 | |
| 12 | 55,275,000 | 55,425,000 | 738 | 436 | 0.333606185 | |
| 12 | 55,350,000 | 55,500,000 | 739 | 552 | 0.600274176 | |
| 12 | 55,425,000 | 55,575,000 | 740 | 643 | 0.546567011 | |
| 12 | 55,500,000 | 55,650,000 | 741 | 600 | -0.334407587 | |
| 12 | 55,575,000 | 55,725,000 | 742 | 598 | -0.936280898 | SPRY2 |
| 12 | 55,650,000 | 55,800,000 | 743 | 553 | -0.49301871 | SPRY2 |
| 12 | 55,725,000 | 55,875,000 | 744 | 755 | -1.084961984 | |
| 12 | 55,800,000 | 55,950,000 | 745 | 1105 | -0.734687524 | |
| 12 | 55,875,000 | 56,025,000 | 746 | 978 | -1.059280447 | |
| 12 | 55,950,000 | 56,100,000 | 747 | 585 | -2.025312624 | |
| 12 | 56,025,000 | 56,175,000 | 748 | 319 | -0.345732361 | |
| 12 | 56,100,000 | 56,250,000 | 749 | 556 | 0.365099469 | |
| 12 | 56,175,000 | 56,325,000 | 750 | 592 | 0.24479984 | |
| 12 | 56,250,000 | 56,400,000 | 751 | 588 | -0.417859386 | |
| 12 | 56,325,000 | 56,475,000 | 752 | 606 | -0.601939634 | |
| 12 | 56,400,000 | 56,550,000 | 753 | 522 | -0.302854496 | |
| 12 | 56,475,000 | 56,625,000 | 754 | 633 | 0.036773537 | |
| 12 | 56,550,000 | 56,700,000 | 755 | 628 | 0.218982501 | |
| 12 | 56,625,000 | 56,775,000 | 756 | 634 | 0.168254895 | |
| 12 | 56,700,000 | 56,850,000 | 757 | 648 | -0.708016081 | |
| 12 | 56,775,000 | 56,925,000 | 758 | 709 | -0.959618568 | |
| 12 | 56,850,000 | 57,000,000 | 759 | 666 | 0.247198407 | |
| 12 | 56,925,000 | 57,075,000 | 760 | 622 | 0.802611262 | |
| 12 | 57,000,000 | 57,150,000 | 761 | 1082 | 0.624643573 | |
| 12 | 57,075,000 | 57,225,000 | 762 | 1449 | 0.872697569 | |
| 12 | 57,150,000 | 57,300,000 | 763 | 1245 | 1.210942642 | |
| 12 | 57,225,000 | 57,375,000 | 764 | 1299 | 1.264015908 | |
| 12 | 57,300,000 | 57,450,000 | 765 | 1356 | 1.176743077 | |
| 12 | 57,375,000 | 57,525,000 | 766 | 1063 | 1.061181295 | |
| 12 | 57,450,000 | 57,600,000 | 767 | 1116 | 0.802364138 | |
| 12 | 57,525,000 | 57,675,000 | 768 | 1276 | 0.500868244 | |
| 12 | 57,600,000 | 57,750,000 | 769 | 1496 | -0.165611845 | |
| 12 | 57,675,000 | 57,825,000 | 770 | 1618 | -0.554317058 | |
| 12 | 57,750,000 | 57,900,000 | 771 | 1449 | -1.055272775 | |
| 12 | 57,825,000 | 57,975,000 | 772 | 1520 | -0.479565742 | |
| 12 | 57,900,000 | 58,050,000 | 773 | 1759 | 1.186680854 | |
| 12 | 57,975,000 | 58,125,000 | 774 | 1782 | 1.254832622 | |
| 12 | 58,050,000 | 58,200,000 | 775 | 1740 | 0.948185052 | |
| 12 | 58,125,000 | 58,275,000 | 776 | 1470 | 0.691555098 | |
| 12 | 58,200,000 | 58,350,000 | 777 | 1230 | 0.440600644 | |
| 12 | 58,275,000 | 58,425,000 | 778 | 1571 | -0.436475772 | |
| 12 | 58,350,000 | 58,500,000 | 779 | 1820 | 0.358687118 | |
| 12 | 58,425,000 | 58,575,000 | 780 | 1805 | 0.020116141 | |
| 12 | 58,500,000 | 58,650,000 | 781 | 1885 | -1.748053501 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------|
| 12 | 58,575,000 | 58,725,000 | 782 | 1956 | -0.371885762 | |
| 12 | 58,650,000 | 58,800,000 | 783 | 1871 | -0.083532365 | |
| 12 | 58,725,000 | 58,875,000 | 784 | 1835 | -0.105300723 | |
| 12 | 58,800,000 | 58,950,000 | 785 | 1796 | 0.759204452 | |
| 12 | 58,875,000 | 59,025,000 | 786 | 1606 | 0.550728309 | |
| 12 | 58,950,000 | 59,100,000 | 787 | 1383 | 0.53394015 | |
| 12 | 59,025,000 | 59,175,000 | 788 | 1140 | 0.285643811 | SLITRK1 |
| 12 | 59,100,000 | 59,250,000 | 789 | 875 | 0.21842371 | SLITRK1 |
| 12 | 59,175,000 | 59,325,000 | 790 | 813 | 0.350105553 | |
| 12 | 59,250,000 | 59,400,000 | 791 | 612 | 0.280275662 | |
| 12 | 59,325,000 | 59,475,000 | 792 | 890 | -1.032357573 | |
| 12 | 59,400,000 | 59,550,000 | 793 | 1052 | -0.841968394 | |
| 12 | 59,475,000 | 59,625,000 | 794 | 885 | 0.969877528 | |
| 12 | 59,550,000 | 59,700,000 | 795 | 1003 | 1.102796597 | |
| 12 | 59,625,000 | 59,775,000 | 796 | 1243 | 0.483949134 | |
| 12 | 59,700,000 | 59,850,000 | 797 | 1372 | 0.610324056 | |
| 12 | 59,775,000 | 59,925,000 | 798 | 1455 | -0.163088331 | |
| 12 | 59,850,000 | 60,000,000 | 799 | 1722 | -0.655857067 | |
| 12 | 59,925,000 | 60,075,000 | 800 | 1581 | -1.248159126 | |
| 12 | 60,000,000 | 60,150,000 | 801 | 1438 | -0.214828348 | |
| 12 | 60,075,000 | 60,225,000 | 802 | 1402 | -0.815769292 | |
| 12 | 60,150,000 | 60,300,000 | 803 | 1355 | -1.217038403 | |
| 12 | 60,225,000 | 60,375,000 | 804 | 1248 | -0.146849724 | |
| 12 | 60,300,000 | 60,450,000 | 805 | 1453 | -1.207225865 | |
| 12 | 60,375,000 | 60,525,000 | 806 | 1603 | -0.731979212 | |
| 12 | 60,450,000 | 60,600,000 | 807 | 1396 | 0.186864609 | |
| 12 | 60,525,000 | 60,675,000 | 808 | 1410 | 0.426482876 | |
| 12 | 60,600,000 | 60,750,000 | 809 | 1327 | -1.272554368 | |
| 12 | 60,675,000 | 60,825,000 | 810 | 1236 | -1.254184677 | |
| 12 | 60,750,000 | 60,900,000 | 811 | 1102 | 0.576129633 | |
| 12 | 60,825,000 | 60,975,000 | 812 | 1222 | 0.683773776 | |
| 12 | 60,900,000 | 61,050,000 | 813 | 1427 | 0.545455942 | |
| 12 | 60,975,000 | 61,125,000 | 814 | 1269 | 0.719961776 | SLITRK6 |
| 12 | 61,050,000 | 61,200,000 | 815 | 1322 | 1.245884154 | SLITRK6 |
| 12 | 61,125,000 | 61,275,000 | 816 | 1453 | 0.901929083 | |
| 12 | 61,200,000 | 61,350,000 | 817 | 1552 | -0.123619684 | |
| 12 | 61,275,000 | 61,425,000 | 818 | 1639 | -0.901775279 | |
| 12 | 61,350,000 | 61,500,000 | 819 | 1674 | 0.004920935 | |
| 12 | 61,425,000 | 61,575,000 | 820 | 1698 | 1.187275032 | HTATSF1 |
| 12 | 61,500,000 | 61,650,000 | 821 | 1565 | 0.710778889 | HTATSF1 |
| 12 | 61,575,000 | 61,725,000 | 822 | 1223 | 0.037457457 | |
| 12 | 61,650,000 | 61,800,000 | 823 | 1305 | 0.416623177 | |
| 12 | 61,725,000 | 61,875,000 | 824 | 1388 | 0.2081322 | |
| 12 | 61,800,000 | 61,950,000 | 825 | 955 | -0.17959938 | |
| 12 | 61,875,000 | 62,025,000 | 826 | 800 | 0.270596376 | |
| 12 | 61,950,000 | 62,100,000 | 827 | 1237 | 0.355580769 | |
| 12 | 62,025,000 | 62,175,000 | 828 | 1456 | 0.524661211 | |
| 12 | 62,100,000 | 62,250,000 | 829 | 1372 | 0.448038857 | |
| 12 | 62,175,000 | 62,325,000 | 830 | 1448 | 0.857745342 | |
| 12 | 62,250,000 | 62,400,000 | 831 | 1246 | 1.054505849 | |
| 12 | 62,325,000 | 62,475,000 | 832 | 1565 | 0.63528292 | |
| 12 | 62,400,000 | 62,550,000 | 833 | 1659 | 0.728977072 | |
| 12 | 62,475,000 | 62,625,000 | 834 | 1105 | 0.565816435 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------|
| 12 | 62,550,000 | 62,700,000 | 835 | 1072 | 0.729078481 | SLITRK5 |
| 12 | 62,625,000 | 62,775,000 | 836 | 1301 | 0.706738091 | SLITRK5 |
| 12 | 62,700,000 | 62,850,000 | 837 | 1321 | 0.442026089 | |
| 12 | 62,775,000 | 62,925,000 | 838 | 1104 | 0.004498182 | |
| 12 | 62,850,000 | 63,000,000 | 839 | 1256 | -0.441451014 | |
| 12 | 62,925,000 | 63,075,000 | 840 | 1495 | 0.073255676 | |
| 12 | 63,000,000 | 63,150,000 | 841 | 1452 | -0.430721671 | |
| 12 | 63,075,000 | 63,225,000 | 842 | 1602 | -1.727760679 | |
| 12 | 63,150,000 | 63,300,000 | 843 | 1967 | -1.957855992 | |
| 12 | 63,225,000 | 63,375,000 | 844 | 1897 | -1.008142609 | |
| 12 | 63,300,000 | 63,450,000 | 845 | 2032 | -0.342214205 | |
| 12 | 63,375,000 | 63,525,000 | 846 | 1738 | -0.116878637 | |
| 12 | 63,450,000 | 63,600,000 | 847 | 1558 | 0.818074148 | |
| 12 | 63,525,000 | 63,675,000 | 848 | 1849 | 0.677658328 | |
| 12 | 63,600,000 | 63,750,000 | 849 | 1384 | 0.771740345 | |
| 12 | 63,675,000 | 63,825,000 | 850 | 1098 | 0.588661882 | |
| 12 | 63,750,000 | 63,900,000 | 851 | 928 | 0.25395832 | |
| 12 | 63,825,000 | 63,975,000 | 852 | 961 | 0.692875373 | |
| 12 | 63,900,000 | 64,050,000 | 853 | 1417 | 0.434970987 | |
| 12 | 63,975,000 | 64,125,000 | 854 | 1489 | 0.169713596 | |
| 12 | 64,050,000 | 64,200,000 | 855 | 1573 | 0.0388816 | |
| 12 | 64,125,000 | 64,275,000 | 856 | 1813 | 0.629895767 | |
| 12 | 64,200,000 | 64,350,000 | 857 | 1534 | 0.930533832 | |
| 12 | 64,275,000 | 64,425,000 | 858 | 1772 | 0.056170948 | |
| 12 | 64,350,000 | 64,500,000 | 859 | 1961 | -0.368196057 | |
| 12 | 64,425,000 | 64,575,000 | 860 | 1473 | -0.396984969 | |
| 12 | 64,500,000 | 64,650,000 | 861 | 1509 | -0.763014513 | |
| 12 | 64,575,000 | 64,725,000 | 862 | 1373 | -1.140250167 | |
| 12 | 64,650,000 | 64,800,000 | 863 | 1209 | -0.632750803 | |
| 12 | 64,725,000 | 64,875,000 | 864 | 1185 | -0.119929793 | |
| 12 | 64,800,000 | 64,950,000 | 865 | 725 | -0.699071979 | |
| 12 | 64,875,000 | 65,025,000 | 866 | 443 | -1.63181175 | |
| 12 | 64,950,000 | 65,100,000 | 867 | 672 | -1.312283985 | |
| 12 | 65,025,000 | 65,175,000 | 868 | 796 | -1.159149153 | |
| 12 | 65,100,000 | 65,250,000 | 869 | 847 | -0.484399746 | |
| 12 | 65,175,000 | 65,325,000 | 870 | 807 | 0.523470848 | |
| 12 | 65,250,000 | 65,400,000 | 871 | 474 | 1.147992756 | |
| 12 | 65,325,000 | 65,475,000 | 872 | 581 | 0.336914789 | |
| 12 | 65,400,000 | 65,550,000 | 873 | 662 | -0.015993877 | |
| 12 | 65,475,000 | 65,625,000 | 874 | 678 | 0.416783292 | |
| 12 | 65,550,000 | 65,700,000 | 875 | 833 | 0.167076857 | |
| 12 | 65,625,000 | 65,775,000 | 876 | 1112 | 0.729385022 | |
| 12 | 65,700,000 | 65,850,000 | 877 | 1163 | 0.796038576 | |
| 12 | 65,775,000 | 65,925,000 | 878 | 1007 | -0.496243301 | |
| 12 | 65,850,000 | 66,000,000 | 879 | 884 | -0.259371468 | |
| 12 | 65,925,000 | 66,075,000 | 880 | 558 | 0.419507466 | |
| 12 | 66,000,000 | 66,150,000 | 881 | 407 | 0.535966101 | |
| 12 | 66,075,000 | 66,225,000 | 882 | 501 | -0.310340606 | |
| 12 | 66,150,000 | 66,300,000 | 883 | 564 | 0.214521427 | GPC5 |
| 12 | 66,225,000 | 66,375,000 | 884 | 639 | 0.856135173 | GPC5 |
| 12 | 66,300,000 | 66,450,000 | 885 | 663 | 0.622620226 | GPC5 |
| 12 | 66,375,000 | 66,525,000 | 886 | 481 | 0.112644965 | GPC5 |
| 12 | 66,450,000 | 66,600,000 | 887 | 377 | 0.153887555 | GPC5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 12 | 66,525,000 | 66,675,000 | 888 | 670 | -0.427837801 | GPC5 |
| 12 | 66,600,000 | 66,750,000 | 889 | 980 | -0.772458202 | GPC5 |
| 12 | 66,675,000 | 66,825,000 | 890 | 677 | -0.632655361 | GPC5 |
| 12 | 66,750,000 | 66,900,000 | 891 | 582 | -0.403930358 | GPC5 |
| 12 | 66,825,000 | 66,975,000 | 892 | 708 | -0.107099628 | GPC5 |
| 12 | 66,900,000 | 67,050,000 | 893 | 721 | 0.27188095 | GPC5 |
| 12 | 66,975,000 | 67,125,000 | 894 | 711 | 0.031540695 | GPC5 |
| 12 | 67,050,000 | 67,200,000 | 895 | 701 | 0.390933974 | GPC5 |
| 12 | 67,125,000 | 67,275,000 | 896 | 713 | 0.672845735 | GPC5 |
| 12 | 67,200,000 | 67,350,000 | 897 | 579 | 0.597776714 | GPC5 |
| 12 | 67,275,000 | 67,425,000 | 898 | 591 | -1.418894585 | GPC5 |
| 12 | 67,350,000 | 67,500,000 | 899 | 663 | -3.22608106 | |
| 12 | 67,425,000 | 67,575,000 | 900 | 557 | -3.316302882 | |
| 12 | 67,500,000 | 67,650,000 | 901 | 389 | -1.267124971 | |
| 12 | 67,575,000 | 67,725,000 | 902 | 429 | 0.679642095 | |
| 12 | 67,650,000 | 67,800,000 | 903 | 511 | 1.171637717 | |
| 12 | 67,725,000 | 67,875,000 | 904 | 864 | 0.662197598 | |
| 12 | 67,800,000 | 67,950,000 | 905 | 1278 | 0.63002274 | |
| 12 | 67,875,000 | 68,025,000 | 906 | 1627 | 0.240202956 | |
| 12 | 67,950,000 | 68,100,000 | 907 | 1574 | -0.219961412 | |
| 12 | 68,025,000 | 68,175,000 | 908 | 1620 | 0.122764412 | |
| 12 | 68,100,000 | 68,250,000 | 909 | 1646 | 0.407263922 | GPC6 |
| 12 | 68,175,000 | 68,325,000 | 910 | 1297 | 0.572682385 | GPC6 |
| 12 | 68,250,000 | 68,400,000 | 911 | 974 | 0.246152995 | GPC6 |
| 12 | 68,325,000 | 68,475,000 | 912 | 835 | -2.09297781 | GPC6 |
| 12 | 68,400,000 | 68,550,000 | 913 | 1024 | -1.784029868 | GPC6 |
| 12 | 68,475,000 | 68,625,000 | 914 | 1011 | -0.868524616 | GPC6 |
| 12 | 68,550,000 | 68,700,000 | 915 | 987 | -2.593620231 | GPC6 |
| 12 | 68,625,000 | 68,775,000 | 916 | 1010 | -1.75608574 | GPC6 |
| 12 | 68,700,000 | 68,850,000 | 917 | 762 | 0.028828931 | GPC6 |
| 12 | 68,775,000 | 68,925,000 | 918 | 567 | 0.680378132 | |
| 12 | 68,850,000 | 69,000,000 | 919 | 994 | 0.99437945 | |
| 12 | 68,925,000 | 69,075,000 | 920 | 1070 | 0.935651235 | |
| 12 | 69,000,000 | 69,150,000 | 921 | 826 | 0.569113954 | |
| 12 | 69,075,000 | 69,225,000 | 922 | 955 | -0.150877919 | |
| 12 | 69,150,000 | 69,300,000 | 923 | 869 | -0.173847686 | |
| 12 | 69,225,000 | 69,375,000 | 924 | 894 | 0.986035286 | |
| 12 | 69,300,000 | 69,450,000 | 925 | 1279 | 0.829164048 | |
| 12 | 69,375,000 | 69,525,000 | 926 | 1625 | 0.311712888 | DCT |
| 12 | 69,450,000 | 69,600,000 | 927 | 1381 | 0.561567681 | DCT |
| 12 | 69,525,000 | 69,675,000 | 928 | 662 | 0.786335777 | DCT,GPR180,TGDS |
| 12 | 69,600,000 | 69,750,000 | 929 | 603 | 0.477025083 | GPR180,SOX21,TGDS |
| 12 | 69,675,000 | 69,825,000 | 930 | 964 | 0.039494578 | SOX21 |
| 12 | 69,750,000 | 69,900,000 | 931 | 1206 | 0.270807228 | |
| 12 | 69,825,000 | 69,975,000 | 932 | 1579 | 0.943286907 | |
| 12 | 69,900,000 | 70,050,000 | 933 | 1801 | 0.721980657 | ENSBTAG00000032603 |
| 12 | 69,975,000 | 70,125,000 | 934 | 2146 | 0.489866297 | ENSBTAG00000032603 |
| 12 | 70,050,000 | 70,200,000 | 935 | 2630 | 0.87080965 | ENSBTAG00000032603 |
| 12 | 70,125,000 | 70,275,000 | 936 | 2572 | 1.015268745 | ENSBTAG00000032603 |
| 12 | 70,200,000 | 70,350,000 | 937 | 2328 | 0.818652359 | |
| 12 | 70,275,000 | 70,425,000 | 938 | 1911 | 0.240123002 | |
| 12 | 70,350,000 | 70,500,000 | 939 | 1746 | -1.557545764 | |
| 12 | 70,425,000 | 70,575,000 | 940 | 2044 | -0.944190031 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 12 | 70,500,000 | 70,650,000 | 941 | 2168 | -0.509412442 | |
| 12 | 70,575,000 | 70,725,000 | 942 | 2140 | -0.204487115 | |
| 12 | 70,650,000 | 70,800,000 | 943 | 2344 | -0.327334169 | |
| 12 | 70,725,000 | 70,875,000 | 944 | 2523 | -0.166838549 | |
| 12 | 70,800,000 | 70,950,000 | 945 | 2280 | -0.13065494 | |
| 12 | 70,875,000 | 71,025,000 | 946 | 1859 | -1.103713074 | |
| 12 | 70,950,000 | 71,100,000 | 947 | 1723 | -1.619216479 | |
| 12 | 71,025,000 | 71,175,000 | 948 | 1566 | -1.750864 | |
| 12 | 71,100,000 | 71,250,000 | 949 | 1283 | -0.652028736 | |
| 12 | 71,175,000 | 71,325,000 | 950 | 1804 | -0.083392967 | |
| 12 | 71,250,000 | 71,400,000 | 951 | 2618 | -0.15160024 | |
| 12 | 71,325,000 | 71,475,000 | 952 | 2415 | -0.484166145 | |
| 12 | 71,400,000 | 71,550,000 | 953 | 1635 | -0.536159716 | |
| 12 | 71,475,000 | 71,625,000 | 954 | 1742 | 0.062653399 | |
| 12 | 71,550,000 | 71,700,000 | 955 | 1673 | 0.039786313 | |
| 12 | 71,625,000 | 71,775,000 | 956 | 1796 | 0.13656516 | |
| 12 | 71,700,000 | 71,850,000 | 957 | 1921 | 0.013024866 | ENSBTAG00000047383 |
| 12 | 71,775,000 | 71,925,000 | 958 | 1909 | -0.956934601 | ENSBTAG00000047383 |
| 12 | 71,850,000 | 72,000,000 | 959 | 2557 | -1.125885078 | ENSBTAG00000047383 |
| 12 | 71,925,000 | 72,075,000 | 960 | 2182 | -0.915803195 | ENSBTAG00000045751,ENSBTAG00000047383 |
| 12 | 72,000,000 | 72,150,000 | 961 | 2297 | -0.137736689 | ENSBTAG00000045751 |
| 12 | 72,075,000 | 72,225,000 | 962 | 2934 | 0.245731925 | ENSBTAG00000045751 |
| 12 | 72,150,000 | 72,300,000 | 963 | 2689 | 0.477731427 | ENSBTAG00000045751 |
| 12 | 72,225,000 | 72,375,000 | 964 | 2466 | 0.283600377 | |
| 12 | 72,300,000 | 72,450,000 | 965 | 2692 | 0.367888487 | |
| 12 | 72,375,000 | 72,525,000 | 966 | 2574 | -0.152381694 | |
| 12 | 72,450,000 | 72,600,000 | 967 | 1789 | -2.130074986 | ENSBTAG00000047181 |
| 12 | 72,525,000 | 72,675,000 | 968 | 1242 | -3.432370699 | ENSBTAG00000047181 |
| 12 | 72,600,000 | 72,750,000 | 969 | 1622 | -1.880319624 | ENSBTAG00000047181 |
| 12 | 72,675,000 | 72,825,000 | 970 | 1442 | -1.546445545 | ENSBTAG00000047181 |
| 12 | 72,750,000 | 72,900,000 | 971 | 1368 | -0.71231338 | |
| 12 | 72,825,000 | 72,975,000 | 972 | 1758 | 0.210984509 | |
| 12 | 72,900,000 | 73,050,000 | 973 | 1670 | 0.373253481 | |
| 12 | 72,975,000 | 73,125,000 | 974 | 1754 | -0.076547121 | |
| 12 | 73,050,000 | 73,200,000 | 975 | 2007 | -0.380157343 | |
| 12 | 73,125,000 | 73,275,000 | 976 | 2368 | -0.145237676 | |
| 12 | 73,200,000 | 73,350,000 | 977 | 2426 | -0.225911078 | |
| 12 | 73,275,000 | 73,425,000 | 978 | 2384 | -0.962381595 | |
| 12 | 73,350,000 | 73,500,000 | 979 | 1922 | -0.561152275 | |
| 12 | 73,425,000 | 73,575,000 | 980 | 1461 | -0.366624962 | ENSBTAG00000046041 |
| 12 | 73,500,000 | 73,650,000 | 981 | 1324 | -2.046296721 | ENSBTAG00000046041 |
| 12 | 73,575,000 | 73,725,000 | 982 | 1680 | -1.227375091 | ENSBTAG00000046041 |
| 12 | 73,650,000 | 73,800,000 | 983 | 1572 | -0.550131332 | ENSBTAG00000046041 |
| 12 | 73,725,000 | 73,875,000 | 984 | 1713 | 0.039126473 | |
| 12 | 73,800,000 | 73,950,000 | 985 | 1836 | 0.126142503 | ENSBTAG00000047764 |
| 12 | 73,875,000 | 74,025,000 | 986 | 1149 | -0.11580747 | ENSBTAG00000047764 |
| 12 | 73,950,000 | 74,100,000 | 987 | 1480 | 0.161943357 | ENSBTAG00000047764 |
| 12 | 74,025,000 | 74,175,000 | 988 | 1500 | 0.1834767 | |
| 12 | 74,100,000 | 74,250,000 | 989 | 1865 | -0.240356221 | |
| 12 | 74,175,000 | 74,325,000 | 990 | 2222 | -0.288671876 | |
| 12 | 74,250,000 | 74,400,000 | 991 | 2002 | -0.951127414 | |
| 12 | 74,325,000 | 74,475,000 | 992 | 1744 | -1.561919275 | |
| 12 | 74,400,000 | 74,550,000 | 993 | 2260 | 0.242174705 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------------|
| 12 | 74,475,000 | 74,625,000 | 994 | 2773 | 0.34142945 | |
| 12 | 74,550,000 | 74,700,000 | 995 | 2135 | 0.045121036 | |
| 12 | 74,625,000 | 74,775,000 | 996 | 1784 | -1.049799454 | |
| 12 | 74,700,000 | 74,850,000 | 997 | 1944 | -1.071367737 | ENSBTAG00000023309 |
| 12 | 74,775,000 | 74,925,000 | 998 | 2572 | 0.140940059 | ENSBTAG00000023309 |
| 12 | 74,850,000 | 75,000,000 | 999 | 2268 | 0.288001085 | ENSBTAG00000023309 |
| 12 | 74,925,000 | 75,075,000 | 1000 | 1485 | -0.453819145 | ENSBTAG00000023309 |
| 12 | 75,000,000 | 75,150,000 | 1001 | 1338 | -0.752683244 | |
| 12 | 75,075,000 | 75,225,000 | 1002 | 1680 | 0.34656802 | |
| 12 | 75,150,000 | 75,300,000 | 1003 | 2444 | 0.56698626 | |
| 12 | 75,225,000 | 75,375,000 | 1004 | 2944 | 0.227477064 | |
| 12 | 75,300,000 | 75,450,000 | 1005 | 2521 | -0.242931663 | |
| 12 | 75,375,000 | 75,525,000 | 1006 | 3360 | -0.068389277 | ENSBTAG00000026070 |
| 12 | 75,450,000 | 75,600,000 | 1007 | 3596 | 0.015316228 | ENSBTAG00000026070 |
| 12 | 75,525,000 | 75,675,000 | 1008 | 2614 | 0.021637717 | ENSBTAG00000026070,ENSBTAG00000039714 |
| 12 | 75,600,000 | 75,750,000 | 1009 | 2844 | -0.112016841 | ENSBTAG00000039714 |
| 12 | 75,675,000 | 75,825,000 | 1010 | 2667 | -0.312842372 | ENSBTAG00000039714 |
| 12 | 75,750,000 | 75,900,000 | 1011 | 2450 | -0.959675628 | ENSBTAG00000039714 |
| 12 | 75,825,000 | 75,975,000 | 1012 | 2302 | -2.550538015 | ENSBTAG00000039714 |
| 12 | 75,900,000 | 76,050,000 | 1013 | 1614 | -1.898450813 | |
| 12 | 75,975,000 | 76,125,000 | 1014 | 1829 | -0.108815836 | |
| 12 | 76,050,000 | 76,200,000 | 1015 | 2405 | -0.289507212 | |
| 12 | 76,125,000 | 76,275,000 | 1016 | 1987 | -0.158253954 | |
| 12 | 76,200,000 | 76,350,000 | 1017 | 1785 | -0.0446792 | |
| 12 | 76,275,000 | 76,425,000 | 1018 | 2170 | -0.551164867 | |
| 12 | 76,350,000 | 76,500,000 | 1019 | 2483 | -0.338206052 | |
| 12 | 76,425,000 | 76,575,000 | 1020 | 2261 | 0.040748335 | |
| 12 | 76,500,000 | 76,650,000 | 1021 | 2124 | -0.136194675 | |
| 12 | 76,575,000 | 76,725,000 | 1022 | 2208 | -0.049424891 | |
| 12 | 76,650,000 | 76,800,000 | 1023 | 2443 | 0.500160283 | CLDN10 |
| 12 | 76,725,000 | 76,875,000 | 1024 | 2904 | 0.78633261 | CLDN10,DZIP1 |
| 12 | 76,800,000 | 76,950,000 | 1025 | 2845 | 0.772363015 | CLDN10,DZIP1 |
| 12 | 76,875,000 | 77,025,000 | 1026 | 2800 | 0.499419951 | DNAJC3,DZIP1 |
| 12 | 76,950,000 | 77,100,000 | 1027 | 2901 | 0.643727889 | DNAJC3,UGGT2 |
| 12 | 77,025,000 | 77,175,000 | 1028 | 2543 | 0.756193173 | UGGT2 |
| 12 | 77,100,000 | 77,250,000 | 1029 | 2278 | 0.698769919 | HS6ST3,UGGT2 |
| 12 | 77,175,000 | 77,325,000 | 1030 | 2362 | 1.088164711 | HS6ST3,UGGT2 |
| 12 | 77,250,000 | 77,400,000 | 1031 | 2316 | 0.548901116 | |
| 12 | 77,325,000 | 77,475,000 | 1032 | 1885 | 0.416752469 | |
| 12 | 77,400,000 | 77,550,000 | 1033 | 1789 | 0.798077039 | |
| 12 | 77,475,000 | 77,625,000 | 1034 | 1866 | 0.584356993 | |
| 12 | 77,550,000 | 77,700,000 | 1035 | 1760 | 0.540570097 | |
| 12 | 77,625,000 | 77,775,000 | 1036 | 1883 | 0.334903366 | |
| 12 | 77,700,000 | 77,850,000 | 1037 | 1708 | 0.604698774 | |
| 12 | 77,775,000 | 77,925,000 | 1038 | 1411 | 1.159727471 | |
| 12 | 77,850,000 | 78,000,000 | 1039 | 1550 | 0.944215298 | HS6ST3,ENSBTAG00000045566 |
| 12 | 77,925,000 | 78,075,000 | 1040 | 1193 | 0.735692465 | HS6ST3,OXGR1,ENSBTAG00000045566 |
| 12 | 78,000,000 | 78,150,000 | 1041 | 828 | 0.667491155 | OXGR1 |
| 12 | 78,075,000 | 78,225,000 | 1042 | 866 | 0.540110014 | |
| 12 | 78,150,000 | 78,300,000 | 1043 | 919 | 0.365423379 | MBNL2 |
| 12 | 78,225,000 | 78,375,000 | 1044 | 943 | 0.453265833 | MBNL2 |
| 12 | 78,300,000 | 78,450,000 | 1045 | 1091 | 0.347188155 | MBNL2 |
| 12 | 78,375,000 | 78,525,000 | 1046 | 1568 | -0.15872375 | MBNL2,RAP2A |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------|
| 12 | 78,450,000 | 78,600,000 | 1047 | 1628 | -0.941829211 | RAP2A |
| 12 | 78,525,000 | 78,675,000 | 1048 | 1171 | -0.854787082 | RAP2A |
| 12 | 78,600,000 | 78,750,000 | 1049 | 976 | 0.437525163 | |
| 12 | 78,675,000 | 78,825,000 | 1050 | 1355 | 0.011951419 | |
| 12 | 78,750,000 | 78,900,000 | 1051 | 1528 | -0.820481763 | |
| 12 | 78,825,000 | 78,975,000 | 1052 | 1138 | -1.531195209 | |
| 12 | 78,900,000 | 79,050,000 | 1053 | 818 | -0.941197927 | RANBP6 |
| 12 | 78,975,000 | 79,125,000 | 1054 | 1194 | 0.185358109 | RANBP6 |
| 12 | 79,050,000 | 79,200,000 | 1055 | 1605 | 0.239067528 | FARP1 |
| 12 | 79,125,000 | 79,275,000 | 1056 | 1462 | 0.246774851 | FARP1 |
| 12 | 79,200,000 | 79,350,000 | 1057 | 1306 | 0.113778304 | FARP1 |
| 12 | 79,275,000 | 79,425,000 | 1058 | 1245 | 0.193547148 | FARP1 |
| 12 | 79,350,000 | 79,500,000 | 1059 | 1210 | 0.70725653 | FARP1,STK24 |
| 12 | 79,425,000 | 79,575,000 | 1060 | 1196 | 0.668223753 | FARP1,STK24 |
| 12 | 79,500,000 | 79,650,000 | 1061 | 1416 | 0.078996373 | PEPT-1 |
| 12 | 79,575,000 | 79,725,000 | 1062 | 1456 | 0.416541413 | DOCK9,PEPT-1 |
| 12 | 79,650,000 | 79,800,000 | 1063 | 995 | 0.854546404 | DOCK9,PEPT-1 |
| 12 | 79,725,000 | 79,875,000 | 1064 | 967 | 0.782963811 | DOCK9 |
| 12 | 79,800,000 | 79,950,000 | 1065 | 1029 | 0.921644366 | DOCK9 |
| 12 | 79,875,000 | 80,025,000 | 1066 | 874 | 0.859046134 | |
| 12 | 79,950,000 | 80,100,000 | 1067 | 689 | 0.473126923 | GPR18,UBAC2 |
| 12 | 80,025,000 | 80,175,000 | 1068 | 468 | -0.614016864 | GPR18,GPR183,UBAC2 |
| 12 | 80,100,000 | 80,250,000 | 1069 | 602 | -0.711076844 | GPR183,UBAC2,ENSBTAG00000038268 |
| 12 | 80,175,000 | 80,325,000 | 1070 | 1025 | -0.441187063 | TM9SF2,UBAC2,ENSBTAG00000038268 |
| 12 | 80,250,000 | 80,400,000 | 1071 | 1130 | -0.84069829 | TM9SF2 |
| 12 | 80,325,000 | 80,475,000 | 1072 | 819 | -0.637481698 | CLYBL,TM9SF2 |
| 12 | 80,400,000 | 80,550,000 | 1073 | 485 | 0.44059624 | CLYBL |
| 12 | 80,475,000 | 80,625,000 | 1074 | 489 | 0.571916895 | CLYBL |
| 12 | 80,550,000 | 80,700,000 | 1075 | 624 | -0.395855929 | CLYBL |
| 12 | 80,625,000 | 80,775,000 | 1076 | 419 | -1.785550023 | CLYBL,ZIC2,ZIC5 |
| 12 | 80,700,000 | 80,850,000 | 1077 | 287 | -2.465581413 | PCCA,ZIC2,ZIC5 |
| 12 | 80,775,000 | 80,925,000 | 1078 | 376 | -2.035160892 | PCCA |
| 12 | 80,850,000 | 81,000,000 | 1079 | 452 | -3.312474379 | PCCA |
| 12 | 80,925,000 | 81,075,000 | 1080 | 628 | -3.172091275 | PCCA |
| 12 | 81,000,000 | 81,150,000 | 1081 | 760 | -1.96375074 | PCCA |
| 12 | 81,075,000 | 81,225,000 | 1082 | 655 | -0.426611559 | GGACT,PCCA |
| 12 | 81,150,000 | 81,300,000 | 1083 | 501 | 0.180455795 | GGACT,PCCA,TMTC4 |
| 12 | 81,225,000 | 81,375,000 | 1084 | 654 | -0.643370643 | TMTC4 |
| 12 | 81,300,000 | 81,450,000 | 1085 | 1302 | -1.399418028 | TMTC4 |
| 12 | 81,375,000 | 81,525,000 | 1086 | 1532 | -0.891379958 | |
| 12 | 81,450,000 | 81,600,000 | 1087 | 1355 | 0.085069746 | NALCN |
| 12 | 81,525,000 | 81,675,000 | 1088 | 1642 | 0.770341476 | NALCN |
| 12 | 81,600,000 | 81,750,000 | 1089 | 1416 | 0.941461415 | NALCN |
| 12 | 81,675,000 | 81,825,000 | 1090 | 1025 | 0.266802943 | NALCN |
| 12 | 81,750,000 | 81,900,000 | 1091 | 1124 | 0.708629718 | NALCN |
| 12 | 81,825,000 | 81,975,000 | 1092 | 1068 | 0.660479049 | NALCN |
| 12 | 81,900,000 | 82,050,000 | 1093 | 1215 | -0.526458589 | ITGBL1 |
| 12 | 81,975,000 | 82,125,000 | 1094 | 1179 | -0.685730061 | ITGBL1 |
| 12 | 82,050,000 | 82,200,000 | 1095 | 1305 | -0.279154512 | ITGBL1 |
| 12 | 82,125,000 | 82,275,000 | 1096 | 1354 | -0.159794078 | |
| 12 | 82,200,000 | 82,350,000 | 1097 | 847 | -0.043693647 | |
| 12 | 82,275,000 | 82,425,000 | 1098 | 754 | -2.866080439 | |
| 12 | 82,350,000 | 82,500,000 | 1099 | 857 | -2.755518522 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------------------|
| 12 | 82,425,000 | 82,575,000 | 1100 | 925 | -0.13100085 | |
| 12 | 82,500,000 | 82,650,000 | 1101 | 1061 | -0.1073154 | |
| 12 | 82,575,000 | 82,725,000 | 1102 | 1097 | -0.525413001 | |
| 12 | 82,650,000 | 82,800,000 | 1103 | 1266 | -0.314824624 | |
| 12 | 82,725,000 | 82,875,000 | 1104 | 1642 | 0.320572968 | TPP2 |
| 12 | 82,800,000 | 82,950,000 | 1105 | 1879 | 0.629497261 | METTL21C,TPP2 |
| 12 | 82,875,000 | 83,025,000 | 1106 | 1768 | 0.632018251 | CCDC168,KDELC1,METTL21C,TEX30,TPP2 |
| 12 | 82,950,000 | 83,100,000 | 1107 | 1344 | 0.396666255 | CCDC168,ERCC5,KDELC1,METTL21E,TEX30 |
| 12 | 83,025,000 | 83,175,000 | 1108 | 1000 | 0.264701263 | ERCC5,METTL21E |
| 12 | 83,100,000 | 83,250,000 | 1109 | 812 | 0.459186173 | METTL21E |
| 12 | 83,175,000 | 83,325,000 | 1110 | 1205 | -1.268630548 | SLC10A2 |
| 12 | 83,250,000 | 83,400,000 | 1111 | 1314 | -1.872383893 | SLC10A2 |
| 12 | 83,325,000 | 83,475,000 | 1112 | 1049 | -0.06759411 | |
| 12 | 83,400,000 | 83,550,000 | 1113 | 964 | 0.750886668 | |
| 12 | 83,475,000 | 83,625,000 | 1114 | 1051 | 0.221517582 | |
| 12 | 83,550,000 | 83,700,000 | 1115 | 1426 | 0.571470227 | |
| 12 | 83,625,000 | 83,775,000 | 1116 | 1576 | 1.00965794 | |
| 12 | 83,700,000 | 83,850,000 | 1117 | 1788 | 0.44647168 | |
| 12 | 83,775,000 | 83,925,000 | 1118 | 1710 | -0.269786468 | |
| 12 | 83,850,000 | 84,000,000 | 1119 | 1702 | 0.643773154 | |
| 12 | 83,925,000 | 84,075,000 | 1120 | 1924 | 1.198495614 | |
| 12 | 84,000,000 | 84,150,000 | 1121 | 1954 | 1.384961385 | |
| 12 | 84,075,000 | 84,225,000 | 1122 | 1841 | 1.310606032 | |
| 12 | 84,150,000 | 84,300,000 | 1123 | 1774 | 0.695278647 | |
| 12 | 84,225,000 | 84,375,000 | 1124 | 1589 | 0.408667689 | |
| 12 | 84,300,000 | 84,450,000 | 1125 | 1390 | 0.211474859 | |
| 12 | 84,375,000 | 84,525,000 | 1126 | 1571 | 0.470816171 | |
| 12 | 84,450,000 | 84,600,000 | 1127 | 1689 | 0.627557989 | |
| 12 | 84,525,000 | 84,675,000 | 1128 | 1831 | 0.28483763 | |
| 12 | 84,600,000 | 84,750,000 | 1129 | 1842 | -0.316259168 | |
| 12 | 84,675,000 | 84,825,000 | 1130 | 1630 | -0.716144552 | |
| 12 | 84,750,000 | 84,900,000 | 1131 | 1015 | -0.74865668 | |
| 12 | 84,825,000 | 84,975,000 | 1132 | 866 | 0.210928805 | |
| 12 | 84,900,000 | 85,050,000 | 1133 | 865 | 0.551506611 | |
| 12 | 84,975,000 | 85,125,000 | 1134 | 550 | 0.124882937 | |
| 12 | 85,050,000 | 85,200,000 | 1135 | 734 | -0.719282006 | |
| 12 | 85,125,000 | 85,275,000 | 1136 | 1058 | -0.125463705 | |
| 12 | 85,200,000 | 85,350,000 | 1137 | 866 | 0.545468356 | |
| 12 | 85,275,000 | 85,425,000 | 1138 | 479 | 0.118812958 | |
| 12 | 85,350,000 | 85,500,000 | 1139 | 804 | -1.457357984 | |
| 12 | 85,425,000 | 85,575,000 | 1140 | 962 | -0.967887206 | |
| 12 | 85,500,000 | 85,650,000 | 1141 | 789 | 0.874133059 | ENSBTAG00000046889 |
| 12 | 85,575,000 | 85,725,000 | 1142 | 784 | 0.577882824 | ENSBTAG00000046889 |
| 12 | 85,650,000 | 85,800,000 | 1143 | 841 | -0.02679299 | |
| 12 | 85,725,000 | 85,875,000 | 1144 | 788 | 0.032179105 | |
| 12 | 85,800,000 | 85,950,000 | 1145 | 702 | -0.320589115 | |
| 12 | 85,875,000 | 86,025,000 | 1146 | 727 | -0.195525512 | |
| 12 | 85,950,000 | 86,100,000 | 1147 | 939 | -0.170707472 | |
| 12 | 86,025,000 | 86,175,000 | 1148 | 1022 | 0.208415767 | |
| 12 | 86,100,000 | 86,250,000 | 1149 | 605 | 0.665940077 | EFNB2 |
| 12 | 86,175,000 | 86,325,000 | 1150 | 379 | 0.341536884 | ARGLU1,EFNB2 |
| 12 | 86,250,000 | 86,400,000 | 1151 | 617 | 0.752582002 | ARGLU1,EFNB2 |
| 12 | 86,325,000 | 86,475,000 | 1152 | 847 | 0.374328086 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------|
| 12 | 86,400,000 | 86,550,000 | 1153 | 873 | -0.836757656 | |
| 12 | 86,475,000 | 86,625,000 | 1154 | 1186 | -0.646889236 | |
| 12 | 86,550,000 | 86,700,000 | 1155 | 1124 | -0.293861725 | |
| 12 | 86,625,000 | 86,775,000 | 1156 | 1214 | -0.188387173 | |
| 12 | 86,700,000 | 86,850,000 | 1157 | 1862 | 0.008556971 | FAM155A |
| 12 | 86,775,000 | 86,925,000 | 1158 | 1505 | 0.031738772 | FAM155A |
| 12 | 86,850,000 | 87,000,000 | 1159 | 851 | 0.065473161 | FAM155A |
| 12 | 86,925,000 | 87,075,000 | 1160 | 724 | -0.894315531 | FAM155A |
| 12 | 87,000,000 | 87,150,000 | 1161 | 780 | -0.817638398 | FAM155A |
| 12 | 87,075,000 | 87,225,000 | 1162 | 755 | 0.207089726 | FAM155A |
| 12 | 87,150,000 | 87,300,000 | 1163 | 790 | -0.568388461 | FAM155A |
| 12 | 87,225,000 | 87,375,000 | 1164 | 751 | -1.677609663 | FAM155A |
| 12 | 87,300,000 | 87,450,000 | 1165 | 458 | -1.812415496 | FAM155A |
| 12 | 87,375,000 | 87,525,000 | 1166 | 447 | -1.142414567 | FAM155A |
| 12 | 87,450,000 | 87,600,000 | 1167 | 469 | -0.722016936 | |
| 12 | 87,525,000 | 87,675,000 | 1168 | 589 | -0.317768253 | ABHD13,LIG4,TNFSF13B |
| 12 | 87,600,000 | 87,750,000 | 1169 | 819 | 0.041632927 | ABHD13,LIG4,TNFSF13B |
| 12 | 87,675,000 | 87,825,000 | 1170 | 685 | -0.733111066 | TNFSF13B |
| 12 | 87,750,000 | 87,900,000 | 1171 | 828 | -0.665201436 | |
| 12 | 87,825,000 | 87,975,000 | 1172 | 1062 | -0.291381593 | MYO16 |
| 12 | 87,900,000 | 88,050,000 | 1173 | 877 | -1.17741151 | MYO16 |
| 12 | 87,975,000 | 88,125,000 | 1174 | 775 | -4.15450966 | MYO16 |
| 12 | 88,050,000 | 88,200,000 | 1175 | 573 | -3.227959707 | MYO16 |
| 12 | 88,125,000 | 88,275,000 | 1176 | 452 | -0.027680891 | MYO16 |
| 12 | 88,200,000 | 88,350,000 | 1177 | 601 | 0.088134636 | MYO16 |
| 12 | 88,275,000 | 88,425,000 | 1178 | 483 | -0.222404758 | MYO16 |
| 12 | 88,350,000 | 88,500,000 | 1179 | 377 | -0.03463236 | |
| 12 | 88,425,000 | 88,575,000 | 1180 | 594 | 1.180559718 | |
| 12 | 88,500,000 | 88,650,000 | 1181 | 530 | 1.412310094 | |
| 12 | 88,575,000 | 88,725,000 | 1182 | 597 | -1.614947285 | IRS2 |
| 12 | 88,650,000 | 88,800,000 | 1183 | 976 | -0.250787956 | IRS2 |
| 12 | 88,725,000 | 88,875,000 | 1184 | 779 | 0.597099081 | |
| 12 | 88,800,000 | 88,950,000 | 1185 | 739 | -0.246037653 | COL4A1 |
| 12 | 88,875,000 | 89,025,000 | 1186 | 759 | 0.366017082 | COL4A1 |
| 12 | 88,950,000 | 89,100,000 | 1187 | 496 | 0.790243633 | COL4A1 |
| 12 | 89,025,000 | 89,175,000 | 1188 | 716 | 0.361113035 | COL4A2 |
| 12 | 89,100,000 | 89,250,000 | 1189 | 814 | 0.472796773 | CARKD,COL4A2,RAB20 |
| 12 | 89,175,000 | 89,325,000 | 1190 | 749 | 0.370284905 | ANKRD10,CARKD,CARS2,RAB20 |
| 12 | 89,250,000 | 89,400,000 | 1191 | 629 | 0.105054755 | ANKRD10,CARS2,ING1 |
| 12 | 89,325,000 | 89,475,000 | 1192 | 448 | -0.198930116 | ANKRD10,ARHGEF7,ING1 |
| 12 | 89,400,000 | 89,550,000 | 1193 | 536 | -0.424928318 | ARHGEF7 |
| 12 | 89,475,000 | 89,625,000 | 1194 | 658 | -0.218226544 | ARHGEF7,TEX29 |
| 12 | 89,550,000 | 89,700,000 | 1195 | 839 | 0.253501612 | ARHGEF7,TEX29 |
| 12 | 89,625,000 | 89,775,000 | 1196 | 789 | 0.262260833 | |
| 12 | 89,700,000 | 89,850,000 | 1197 | 581 | -0.241989717 | |
| 12 | 89,775,000 | 89,925,000 | 1198 | 626 | 0.602063427 | |
| 12 | 89,850,000 | 90,000,000 | 1199 | 599 | 0.942714157 | |
| 12 | 89,925,000 | 90,075,000 | 1200 | 388 | -0.387302308 | SOX1 |
| 12 | 90,000,000 | 90,150,000 | 1201 | 472 | -0.742655284 | SOX1 |
| 12 | 90,075,000 | 90,225,000 | 1202 | 676 | -0.189888881 | TUBGCP3 |
| 12 | 90,150,000 | 90,300,000 | 1203 | 845 | 0.565307413 | TUBGCP3 |
| 12 | 90,225,000 | 90,375,000 | 1204 | 1041 | 0.558470747 | ATP11A,TUBGCP3 |
| 12 | 90,300,000 | 90,450,000 | 1205 | 753 | 0.1047732 | ATP11A,MCF2L |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 12 | 90,375,000 | 90,525,000 | 1206 | 379 | -1.042487097 | ATP11A,F10,F7,MCF2L |
| 12 | 90,450,000 | 90,600,000 | 1207 | 352 | -1.72493899 | CUL4A,F10,F7,MCF2L,PCID2,PROZ |
| 12 | 90,525,000 | 90,675,000 | 1208 | 280 | -2.563496214 | ADPRHL1,CUL4A,F10,GRTP1,LAMP1,PCID2,PROZ |
| 12 | 90,600,000 | 90,750,000 | 1209 | 259 | -1.210001376 | ADPRHL1,DCUN1D2,GRTP1,LAMP1,TFDP1,TMCO3,TMEM255B |
| 12 | 90,675,000 | 90,825,000 | 1210 | 487 | -1.03009656 | ADPRHL1,ATP4B,DCUN1D2,GAS6,GRK1,TFDP1,TMCO3,TMEM255B |
| 12 | 90,750,000 | 90,900,000 | 1211 | 820 | -0.20122579 | ATP4B,GAS6,GRK1,TFDP1,TMEM255B |
| 12 | 90,825,000 | 90,975,000 | 1212 | 1138 | -0.326023748 | GAS6,MGC134473,RASA3 |
| 12 | 90,900,000 | 91,050,000 | 1213 | 917 | -1.348170053 | CDC16,MGC134473,RASA3,RPL22 |
| 12 | 90,975,000 | 91,125,000 | 1214 | 471 | -1.7616228 | CDC16,CHAMP1,RASA3,RPL22,UPF3A |
| 12 | 91,050,000 | 91,163,125 | 1215 | 306 | -1.03786734 | CDC16,CHAMP1,UPF3A,ENSBTAG00000023187,ENSBTAG00000038732 |
| 13 | 0 | 150,000 | 1 | 517 | 1.117866175 | |
| 13 | 75,000 | 225,000 | 2 | 785 | 1.397525322 | OR4S2 |
| 13 | 150,000 | 300,000 | 3 | 685 | 1.125659103 | OR4S2 |
| 13 | 225,000 | 375,000 | 4 | 688 | 0.873693407 | ENSBTAG00000024891 |
| 13 | 300,000 | 450,000 | 5 | 927 | 0.851602342 | ENSBTAG00000024891,ENSBTAG00000025720 |
| 13 | 375,000 | 525,000 | 6 | 1085 | 0.851257659 | ENSBTAG00000025720 |
| 13 | 450,000 | 600,000 | 7 | 921 | 0.996343884 | TMX4 |
| 13 | 525,000 | 675,000 | 8 | 633 | 0.825664318 | TMX4 |
| 13 | 600,000 | 750,000 | 9 | 890 | 0.087479029 | |
| 13 | 675,000 | 825,000 | 10 | 977 | -0.192677075 | PLCB1 |
| 13 | 750,000 | 900,000 | 11 | 954 | 0.137722089 | PLCB1 |
| 13 | 825,000 | 975,000 | 12 | 1164 | 1.069171704 | PLCB1 |
| 13 | 900,000 | 1,050,000 | 13 | 1354 | 0.604936712 | PLCB1 |
| 13 | 975,000 | 1,125,000 | 14 | 1484 | -0.146378154 | PLCB1 |
| 13 | 1,050,000 | 1,200,000 | 15 | 1247 | 0.534419995 | PLCB1 |
| 13 | 1,125,000 | 1,275,000 | 16 | 996 | 0.83686039 | PLCB1 |
| 13 | 1,200,000 | 1,350,000 | 17 | 1263 | -0.725948752 | PLCB1 |
| 13 | 1,275,000 | 1,425,000 | 18 | 1205 | -0.898877076 | PLCB1 |
| 13 | 1,350,000 | 1,500,000 | 19 | 1377 | -1.153166951 | PLCB1 |
| 13 | 1,425,000 | 1,575,000 | 20 | 1541 | -1.031537397 | PLCB1 |
| 13 | 1,500,000 | 1,650,000 | 21 | 1051 | 0.332776163 | PLCB1 |
| 13 | 1,575,000 | 1,725,000 | 22 | 821 | 0.829494803 | PLCB1 |
| 13 | 1,650,000 | 1,800,000 | 23 | 658 | 0.805494354 | PLCB1 |
| 13 | 1,725,000 | 1,875,000 | 24 | 724 | 0.555223133 | |
| 13 | 1,800,000 | 1,950,000 | 25 | 836 | 0.381963831 | |
| 13 | 1,875,000 | 2,025,000 | 26 | 997 | 0.452267418 | |
| 13 | 1,950,000 | 2,100,000 | 27 | 1130 | 0.295207723 | |
| 13 | 2,025,000 | 2,175,000 | 28 | 1278 | 0.262765411 | |
| 13 | 2,100,000 | 2,250,000 | 29 | 1082 | 0.161713608 | PLCB4 |
| 13 | 2,175,000 | 2,325,000 | 30 | 1088 | -1.021710292 | PLCB4 |
| 13 | 2,250,000 | 2,400,000 | 31 | 1626 | -0.628818697 | PLCB4 |
| 13 | 2,325,000 | 2,475,000 | 32 | 1468 | 0.529634433 | LAMP5,PAK7,PLCB4 |
| 13 | 2,400,000 | 2,550,000 | 33 | 1374 | 0.95932603 | LAMP5,PAK7,PLCB4 |
| 13 | 2,475,000 | 2,625,000 | 34 | 1384 | 0.899386611 | PAK7 |
| 13 | 2,550,000 | 2,700,000 | 35 | 1460 | 1.225856008 | |
| 13 | 2,625,000 | 2,775,000 | 36 | 1454 | 1.269201873 | |
| 13 | 2,700,000 | 2,850,000 | 37 | 1136 | 0.090782408 | ENSBTAG00000046074 |
| 13 | 2,775,000 | 2,925,000 | 38 | 861 | -0.563509784 | MRPL33,ENSBTAG00000046074 |
| 13 | 2,850,000 | 3,000,000 | 39 | 739 | 0.424423893 | MRPL33 |
| 13 | 2,925,000 | 3,075,000 | 40 | 654 | 0.320084802 | |
| 13 | 3,000,000 | 3,150,000 | 41 | 1111 | 0.384269231 | ANKEF1 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------------------|
| 13 | 3,075,000 | 3,225,000 | 42 | 1422 | 0.491315421 | ANKEF1 |
| 13 | 3,150,000 | 3,300,000 | 43 | 962 | 0.448978795 | ANKEF1 |
| 13 | 3,225,000 | 3,375,000 | 44 | 931 | 0.534541453 | SNAP25 |
| 13 | 3,300,000 | 3,450,000 | 45 | 1323 | 0.360352395 | SNAP25 |
| 13 | 3,375,000 | 3,525,000 | 46 | 1709 | 0.342527006 | SNAP25 |
| 13 | 3,450,000 | 3,600,000 | 47 | 1635 | 0.224213152 | MKKS,SNAP25 |
| 13 | 3,525,000 | 3,675,000 | 48 | 1323 | -0.124645162 | MKKS |
| 13 | 3,600,000 | 3,750,000 | 49 | 1385 | 0.361817805 | SLX4IP |
| 13 | 3,675,000 | 3,825,000 | 50 | 1157 | 0.623853685 | SLX4IP |
| 13 | 3,750,000 | 3,900,000 | 51 | 771 | -0.228521454 | JAG1,SLX4IP |
| 13 | 3,825,000 | 3,975,000 | 52 | 840 | -0.782973063 | JAG1 |
| 13 | 3,900,000 | 4,050,000 | 53 | 976 | -0.594698639 | |
| 13 | 3,975,000 | 4,125,000 | 54 | 809 | -0.726395458 | |
| 13 | 4,050,000 | 4,200,000 | 55 | 719 | -0.233007267 | |
| 13 | 4,125,000 | 4,275,000 | 56 | 903 | 0.636448358 | |
| 13 | 4,200,000 | 4,350,000 | 57 | 917 | 0.798797413 | |
| 13 | 4,275,000 | 4,425,000 | 58 | 1003 | 0.171291109 | |
| 13 | 4,350,000 | 4,500,000 | 59 | 980 | 0.029368985 | |
| 13 | 4,425,000 | 4,575,000 | 60 | 843 | -0.896143791 | |
| 13 | 4,500,000 | 4,650,000 | 61 | 700 | -0.577639753 | |
| 13 | 4,575,000 | 4,725,000 | 62 | 841 | 1.070410656 | |
| 13 | 4,650,000 | 4,800,000 | 63 | 939 | 0.758838712 | |
| 13 | 4,725,000 | 4,875,000 | 64 | 775 | 0.398884516 | |
| 13 | 4,800,000 | 4,950,000 | 65 | 984 | -1.732335875 | |
| 13 | 4,875,000 | 5,025,000 | 66 | 1106 | -1.688032079 | |
| 13 | 4,950,000 | 5,100,000 | 67 | 915 | -0.869376776 | |
| 13 | 5,025,000 | 5,175,000 | 68 | 786 | -2.161684481 | |
| 13 | 5,100,000 | 5,250,000 | 69 | 1186 | -1.721191905 | |
| 13 | 5,175,000 | 5,325,000 | 70 | 1338 | -0.061760331 | |
| 13 | 5,250,000 | 5,400,000 | 71 | 738 | 0.827249083 | |
| 13 | 5,325,000 | 5,475,000 | 72 | 190 | -0.420257696 | SRY |
| 13 | 5,400,000 | 5,550,000 | 73 | 30 | -10.9616481 | SRY |
| 13 | 5,475,000 | 5,625,000 | 74 | 344 | 0.789184971 | BTBD3 |
| 13 | 5,550,000 | 5,700,000 | 75 | 1123 | 0.931170237 | BTBD3 |
| 13 | 5,625,000 | 5,775,000 | 76 | 1591 | 0.856017205 | ENSBTAG00000045631 |
| 13 | 5,700,000 | 5,850,000 | 77 | 1535 | 0.367584903 | ENSBTAG00000045631 |
| 13 | 5,775,000 | 5,925,000 | 78 | 1365 | -0.767998967 | |
| 13 | 5,850,000 | 6,000,000 | 79 | 1434 | -0.431777351 | |
| 13 | 5,925,000 | 6,075,000 | 80 | 1570 | -0.383175069 | |
| 13 | 6,000,000 | 6,150,000 | 81 | 1436 | -0.582055266 | |
| 13 | 6,075,000 | 6,225,000 | 82 | 1516 | -0.858666541 | |
| 13 | 6,150,000 | 6,300,000 | 83 | 1528 | -0.652170222 | |
| 13 | 6,225,000 | 6,375,000 | 84 | 1168 | -0.601040279 | |
| 13 | 6,300,000 | 6,450,000 | 85 | 909 | -1.041155166 | |
| 13 | 6,375,000 | 6,525,000 | 86 | 1277 | -0.000154116 | |
| 13 | 6,450,000 | 6,600,000 | 87 | 1877 | 0.521521818 | |
| 13 | 6,525,000 | 6,675,000 | 88 | 1648 | 0.602543798 | |
| 13 | 6,600,000 | 6,750,000 | 89 | 1318 | 0.386087972 | SPTLC3 |
| 13 | 6,675,000 | 6,825,000 | 90 | 1341 | 0.530168329 | SPTLC3 |
| 13 | 6,750,000 | 6,900,000 | 91 | 1313 | 0.427514945 | SPTLC3 |
| 13 | 6,825,000 | 6,975,000 | 92 | 938 | 0.29384512 | SPTLC3 |
| 13 | 6,900,000 | 7,050,000 | 93 | 754 | -0.18152883 | C20ORF82 |
| 13 | 6,975,000 | 7,125,000 | 94 | 922 | -0.598001472 | C20ORF82 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 13 | 7,050,000 | 7,200,000 | 95 | 653 | -0.175413507 | C20ORF82,TASP1 |
| 13 | 7,125,000 | 7,275,000 | 96 | 410 | 0.802344195 | TASP1 |
| 13 | 7,200,000 | 7,350,000 | 97 | 385 | 0.629993447 | TASP1 |
| 13 | 7,275,000 | 7,425,000 | 98 | 518 | 0.930599894 | TASP1 |
| 13 | 7,350,000 | 7,500,000 | 99 | 501 | 1.083700845 | ESF1,TASP1 |
| 13 | 7,425,000 | 7,575,000 | 100 | 493 | -1.244863901 | C13H20orf7,ESF1,SEL1L2 |
| 13 | 7,500,000 | 7,650,000 | 101 | 924 | 0.035695513 | C13H20orf7,ESF1,SEL1L2 |
| 13 | 7,575,000 | 7,725,000 | 102 | 864 | 0.748205251 | SEL1L2 |
| 13 | 7,650,000 | 7,800,000 | 103 | 464 | -0.32838796 | |
| 13 | 7,725,000 | 7,875,000 | 104 | 508 | -0.457323498 | |
| 13 | 7,800,000 | 7,950,000 | 105 | 713 | 0.254148899 | |
| 13 | 7,875,000 | 8,025,000 | 106 | 678 | 0.352325741 | |
| 13 | 7,950,000 | 8,100,000 | 107 | 499 | -0.419817376 | FLRT3 |
| 13 | 8,025,000 | 8,175,000 | 108 | 423 | -0.088157123 | FLRT3 |
| 13 | 8,100,000 | 8,250,000 | 109 | 1030 | 0.227801146 | |
| 13 | 8,175,000 | 8,325,000 | 110 | 1050 | 0.444775363 | |
| 13 | 8,250,000 | 8,400,000 | 111 | 815 | 1.238360338 | |
| 13 | 8,325,000 | 8,475,000 | 112 | 1263 | 0.705874153 | |
| 13 | 8,400,000 | 8,550,000 | 113 | 1210 | 0.244751969 | |
| 13 | 8,475,000 | 8,625,000 | 114 | 1217 | 0.256175981 | |
| 13 | 8,550,000 | 8,700,000 | 115 | 1261 | 0.453719438 | |
| 13 | 8,625,000 | 8,775,000 | 116 | 1178 | 1.048295311 | |
| 13 | 8,700,000 | 8,850,000 | 117 | 1273 | 0.521815338 | |
| 13 | 8,775,000 | 8,925,000 | 118 | 1488 | 0.25207022 | |
| 13 | 8,850,000 | 9,000,000 | 119 | 1657 | 0.235061411 | |
| 13 | 8,925,000 | 9,075,000 | 120 | 1561 | 0.144111446 | |
| 13 | 9,000,000 | 9,150,000 | 121 | 1613 | 0.484094139 | |
| 13 | 9,075,000 | 9,225,000 | 122 | 1682 | 0.734526884 | |
| 13 | 9,150,000 | 9,300,000 | 123 | 1486 | 0.62954839 | |
| 13 | 9,225,000 | 9,375,000 | 124 | 1427 | 0.649970143 | |
| 13 | 9,300,000 | 9,450,000 | 125 | 1353 | 0.400610553 | |
| 13 | 9,375,000 | 9,525,000 | 126 | 1286 | 0.184356774 | |
| 13 | 9,450,000 | 9,600,000 | 127 | 1282 | 0.409670052 | |
| 13 | 9,525,000 | 9,675,000 | 128 | 1455 | 0.055975076 | |
| 13 | 9,600,000 | 9,750,000 | 129 | 1700 | -0.379321153 | |
| 13 | 9,675,000 | 9,825,000 | 130 | 1468 | 0.00652735 | |
| 13 | 9,750,000 | 9,900,000 | 131 | 1302 | -0.156661093 | MACROD2 |
| 13 | 9,825,000 | 9,975,000 | 132 | 1328 | -0.478494034 | MACROD2 |
| 13 | 9,900,000 | 10,050,000 | 133 | 1357 | 0.661490106 | MACROD2 |
| 13 | 9,975,000 | 10,125,000 | 134 | 1606 | 1.201200369 | MACROD2 |
| 13 | 10,050,000 | 10,200,000 | 135 | 1775 | 1.004687398 | |
| 13 | 10,125,000 | 10,275,000 | 136 | 1625 | 0.456225511 | KIF16B |
| 13 | 10,200,000 | 10,350,000 | 137 | 1001 | -0.15532755 | KIF16B |
| 13 | 10,275,000 | 10,425,000 | 138 | 718 | -0.683517097 | KIF16B |
| 13 | 10,350,000 | 10,500,000 | 139 | 909 | -0.836191271 | KIF16B |
| 13 | 10,425,000 | 10,575,000 | 140 | 923 | -3.302708672 | KIF16B |
| 13 | 10,500,000 | 10,650,000 | 141 | 782 | -2.637973527 | KIF16B |
| 13 | 10,575,000 | 10,725,000 | 142 | 1251 | 1.165100307 | |
| 13 | 10,650,000 | 10,800,000 | 143 | 1306 | 0.698977906 | OTOR,SNRPB2 |
| 13 | 10,725,000 | 10,875,000 | 144 | 654 | -0.128027081 | NANP,OTOR,SNRPB2 |
| 13 | 10,800,000 | 10,950,000 | 145 | 748 | -1.116164795 | NANP,ENSBTAG00000023169 |
| 13 | 10,875,000 | 11,025,000 | 146 | 1114 | 0.047987897 | NANP,ENSBTAG00000023169 |
| 13 | 10,950,000 | 11,100,000 | 147 | 1037 | 0.570005401 | ENSBTAG00000023169 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 13 | 11,025,000 | 11,175,000 | 148 | 898 | 0.412126269 | ENSBTAG00000004354 |
| 13 | 11,100,000 | 11,250,000 | 149 | 1570 | 0.357460464 | ENSBTAG00000004354 |
| 13 | 11,175,000 | 11,325,000 | 150 | 1576 | 0.353610161 | ANKRD26,ENSBTAG00000004354 |
| 13 | 11,250,000 | 11,400,000 | 151 | 999 | -0.358766967 | ANKRD26,ENSBTAG00000040046 |
| 13 | 11,325,000 | 11,475,000 | 152 | 917 | -0.298690585 | ANKRD26,ENSBTAG00000040046 |
| 13 | 11,400,000 | 11,550,000 | 153 | 987 | 0.200285627 | CCDC3,ENSBTAG00000040046 |
| 13 | 11,475,000 | 11,625,000 | 154 | 1003 | 0.375084801 | CCDC3 |
| 13 | 11,550,000 | 11,700,000 | 155 | 753 | 0.461729536 | CCDC3 |
| 13 | 11,625,000 | 11,775,000 | 156 | 734 | -1.593888697 | CAMK1D,CCDC3 |
| 13 | 11,700,000 | 11,850,000 | 157 | 1023 | -3.429416157 | CAMK1D |
| 13 | 11,775,000 | 11,925,000 | 158 | 1063 | -3.890523462 | CAMK1D |
| 13 | 11,850,000 | 12,000,000 | 159 | 881 | -3.031139064 | |
| 13 | 11,925,000 | 12,075,000 | 160 | 770 | -2.852776401 | |
| 13 | 12,000,000 | 12,150,000 | 161 | 920 | -1.683414353 | |
| 13 | 12,075,000 | 12,225,000 | 162 | 1272 | 1.180219918 | CDC123 |
| 13 | 12,150,000 | 12,300,000 | 163 | 1001 | 1.252580462 | CDC123,DHTKD1,NUDT5,SEC61A2 |
| 13 | 12,225,000 | 12,375,000 | 164 | 817 | 0.105136127 | CDC123,DHTKD1,NUDT5,SEC61A2,UPF2 |
| 13 | 12,300,000 | 12,450,000 | 165 | 906 | -0.23627594 | DHTKD1,UPF2 |
| 13 | 12,375,000 | 12,525,000 | 166 | 950 | 0.75274411 | PROSER2,UPF2 |
| 13 | 12,450,000 | 12,600,000 | 167 | 1041 | 0.932928384 | ECHDC3,PROSER2,UPF2 |
| 13 | 12,525,000 | 12,675,000 | 168 | 1095 | 1.063123908 | ECHDC3,PROSER2 |
| 13 | 12,600,000 | 12,750,000 | 169 | 1135 | 1.304956048 | |
| 13 | 12,675,000 | 12,825,000 | 170 | 1307 | 1.17674012 | USP6NL |
| 13 | 12,750,000 | 12,900,000 | 171 | 1695 | 1.194211017 | USP6NL |
| 13 | 12,825,000 | 12,975,000 | 172 | 1512 | 1.199182016 | CELF2,USP6NL |
| 13 | 12,900,000 | 13,050,000 | 173 | 1062 | 0.649720384 | CELF2 |
| 13 | 12,975,000 | 13,125,000 | 174 | 934 | 0.293896391 | CELF2 |
| 13 | 13,050,000 | 13,200,000 | 175 | 1206 | 0.811460368 | |
| 13 | 13,125,000 | 13,275,000 | 176 | 1542 | 0.595276326 | |
| 13 | 13,200,000 | 13,350,000 | 177 | 1773 | 0.460687742 | |
| 13 | 13,275,000 | 13,425,000 | 178 | 1718 | 0.714005457 | |
| 13 | 13,350,000 | 13,500,000 | 179 | 1486 | 1.016818178 | |
| 13 | 13,425,000 | 13,575,000 | 180 | 1466 | 0.870930905 | |
| 13 | 13,500,000 | 13,650,000 | 181 | 1242 | 0.805766071 | |
| 13 | 13,575,000 | 13,725,000 | 182 | 1184 | -1.435448212 | |
| 13 | 13,650,000 | 13,800,000 | 183 | 1322 | -1.03016467 | |
| 13 | 13,725,000 | 13,875,000 | 184 | 1063 | 1.175135264 | |
| 13 | 13,800,000 | 13,950,000 | 185 | 852 | 0.832547237 | |
| 13 | 13,875,000 | 14,025,000 | 186 | 597 | 0.579107365 | |
| 13 | 13,950,000 | 14,100,000 | 187 | 726 | 0.348646353 | |
| 13 | 14,025,000 | 14,175,000 | 188 | 737 | 0.5511867 | |
| 13 | 14,100,000 | 14,250,000 | 189 | 482 | 1.2585625 | |
| 13 | 14,175,000 | 14,325,000 | 190 | 780 | 1.27466666 | |
| 13 | 14,250,000 | 14,400,000 | 191 | 676 | 0.319154745 | |
| 13 | 14,325,000 | 14,475,000 | 192 | 580 | -2.402920584 | |
| 13 | 14,400,000 | 14,550,000 | 193 | 1182 | -0.550690149 | |
| 13 | 14,475,000 | 14,625,000 | 194 | 1642 | 0.694263048 | |
| 13 | 14,550,000 | 14,700,000 | 195 | 1771 | 0.458819492 | |
| 13 | 14,625,000 | 14,775,000 | 196 | 1809 | 0.235163641 | |
| 13 | 14,700,000 | 14,850,000 | 197 | 1931 | 0.483832085 | |
| 13 | 14,775,000 | 14,925,000 | 198 | 2024 | 0.378954695 | |
| 13 | 14,850,000 | 15,000,000 | 199 | 1887 | 0.317878559 | |
| 13 | 14,925,000 | 15,075,000 | 200 | 1650 | 0.798450945 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 15,000,000 | 15,150,000 | 201 | 1429 | 0.868676008 | |
| 13 | 15,075,000 | 15,225,000 | 202 | 1593 | 0.946462871 | ENSBTAG00000048047 |
| 13 | 15,150,000 | 15,300,000 | 203 | 1726 | 1.097606128 | ENSBTAG00000048047 |
| 13 | 15,225,000 | 15,375,000 | 204 | 1080 | 1.130073464 | |
| 13 | 15,300,000 | 15,450,000 | 205 | 363 | 1.212916502 | |
| 13 | 15,375,000 | 15,525,000 | 206 | 361 | 1.157156925 | |
| 13 | 15,450,000 | 15,600,000 | 207 | 495 | 0.998347048 | |
| 13 | 15,525,000 | 15,675,000 | 208 | 580 | 1.247114738 | |
| 13 | 15,600,000 | 15,750,000 | 209 | 447 | 1.384705406 | |
| 13 | 15,675,000 | 15,825,000 | 210 | 346 | 0.157956281 | |
| 13 | 15,750,000 | 15,900,000 | 211 | 554 | -0.670622886 | |
| 13 | 15,825,000 | 15,975,000 | 212 | 731 | -0.052515703 | |
| 13 | 15,900,000 | 16,050,000 | 213 | 627 | -0.057356175 | GATA3,TAF3 |
| 13 | 15,975,000 | 16,125,000 | 214 | 399 | -1.757660417 | GATA3,TAF3 |
| 13 | 16,050,000 | 16,200,000 | 215 | 417 | -0.404816978 | ATP5C1,KIN,TAF3 |
| 13 | 16,125,000 | 16,275,000 | 216 | 579 | 0.496764572 | ATP5C1,ITIH2,KIN,TAF3 |
| 13 | 16,200,000 | 16,350,000 | 217 | 859 | 0.320220269 | ITIH2,ITIH5,KIN |
| 13 | 16,275,000 | 16,425,000 | 218 | 1219 | 0.653389433 | ITIH5,SFMBT2 |
| 13 | 16,350,000 | 16,500,000 | 219 | 1428 | 0.580564887 | ITIH5,SFMBT2 |
| 13 | 16,425,000 | 16,575,000 | 220 | 1435 | 0.367832457 | SFMBT2 |
| 13 | 16,500,000 | 16,650,000 | 221 | 1243 | 0.769423991 | SFMBT2 |
| 13 | 16,575,000 | 16,725,000 | 222 | 924 | 0.606083864 | SFMBT2 |
| 13 | 16,650,000 | 16,800,000 | 223 | 817 | 0.194196362 | |
| 13 | 16,725,000 | 16,875,000 | 224 | 954 | 0.839206251 | |
| 13 | 16,800,000 | 16,950,000 | 225 | 912 | 0.470240489 | |
| 13 | 16,875,000 | 17,025,000 | 226 | 579 | -0.114896308 | |
| 13 | 16,950,000 | 17,100,000 | 227 | 539 | 0.017879973 | PRKCQ |
| 13 | 17,025,000 | 17,175,000 | 228 | 713 | -0.067964621 | PRKCQ |
| 13 | 17,100,000 | 17,250,000 | 229 | 590 | 0.190961366 | PRKCQ |
| 13 | 17,175,000 | 17,325,000 | 230 | 712 | 1.039664809 | PRKCQ |
| 13 | 17,250,000 | 17,400,000 | 231 | 1063 | 0.877433676 | PFKFB3 |
| 13 | 17,325,000 | 17,475,000 | 232 | 898 | 0.430250518 | PFKFB3 |
| 13 | 17,400,000 | 17,550,000 | 233 | 765 | 0.627678555 | IL2RA,PFKFB3,RBM17 |
| 13 | 17,475,000 | 17,625,000 | 234 | 807 | 0.558400342 | IL15RA,IL2RA,RBM17 |
| 13 | 17,550,000 | 17,700,000 | 235 | 855 | 0.128224329 | FBXO18,IL15RA,IL2RA |
| 13 | 17,625,000 | 17,775,000 | 236 | 1137 | 0.169484377 | FBXO18,IL15RA,ENSBTAG00000036222 |
| 13 | 17,700,000 | 17,850,000 | 237 | 1322 | 0.597972746 | ENSBTAG00000017012,ENSBTAG00000022931,ENSBTAG00000036222 |
| 13 | 17,775,000 | 17,925,000 | 238 | 1086 | 0.757846562 | ANKRD26,ENSBTAG00000017012,ENSBTAG00000022931,ENSBTAG00000034145,ENSBTAG00000036222 |
| 13 | 17,850,000 | 18,000,000 | 239 | 865 | 0.265802409 | ANKRD26,YME1L1,ENSBTAG00000022931,ENSBTAG00000034145 |
| 13 | 17,925,000 | 18,075,000 | 240 | 933 | 0.573767783 | ACBD5,ANKRD26,MASTL,YME1L1 |
| 13 | 18,000,000 | 18,150,000 | 241 | 800 | 1.125193144 | ABI1,ACBD5,MASTL,YME1L1 |
| 13 | 18,075,000 | 18,225,000 | 242 | 658 | 0.948502613 | ABI1,ACBD5,PDSS1 |
| 13 | 18,150,000 | 18,300,000 | 243 | 917 | 0.653821582 | ABI1,APBB1IP,PDSS1 |
| 13 | 18,225,000 | 18,375,000 | 244 | 820 | 0.564421703 | APBB1IP,CCNY |
| 13 | 18,300,000 | 18,450,000 | 245 | 440 | 0.399622123 | APBB1IP,CCNY |
| 13 | 18,375,000 | 18,525,000 | 246 | 350 | 0.38742843 | CCNY,CREM |
| 13 | 18,450,000 | 18,600,000 | 247 | 306 | 0.678158266 | CREM,CUL2 |
| 13 | 18,525,000 | 18,675,000 | 248 | 421 | 0.331783522 | CREM,CUL2 |
| 13 | 18,600,000 | 18,750,000 | 249 | 502 | -0.621219152 | CUL2 |
| 13 | 18,675,000 | 18,825,000 | 250 | 517 | -0.703263142 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 13 | 18,750,000 | 18,900,000 | 251 | 452 | -0.06867948 | |
| 13 | 18,825,000 | 18,975,000 | 252 | 369 | -0.026730279 | |
| 13 | 18,900,000 | 19,050,000 | 253 | 654 | 0.799713636 | PARD3 |
| 13 | 18,975,000 | 19,125,000 | 254 | 689 | 1.29978097 | PARD3 |
| 13 | 19,050,000 | 19,200,000 | 255 | 664 | 0.591473857 | PARD3 |
| 13 | 19,125,000 | 19,275,000 | 256 | 765 | 0.280859223 | PARD3 |
| 13 | 19,200,000 | 19,350,000 | 257 | 830 | -0.765842676 | PARD3 |
| 13 | 19,275,000 | 19,425,000 | 258 | 1027 | -0.630582468 | PARD3 |
| 13 | 19,350,000 | 19,500,000 | 259 | 794 | -0.347286741 | |
| 13 | 19,425,000 | 19,575,000 | 260 | 744 | -1.735253858 | |
| 13 | 19,500,000 | 19,650,000 | 261 | 903 | -1.510999031 | |
| 13 | 19,575,000 | 19,725,000 | 262 | 578 | -0.789610375 | |
| 13 | 19,650,000 | 19,800,000 | 263 | 726 | -0.103489672 | |
| 13 | 19,725,000 | 19,875,000 | 264 | 977 | -0.359668335 | |
| 13 | 19,800,000 | 19,950,000 | 265 | 820 | -0.458356286 | NRP1 |
| 13 | 19,875,000 | 20,025,000 | 266 | 667 | -0.025106195 | NRP1 |
| 13 | 19,950,000 | 20,100,000 | 267 | 681 | -0.217957436 | NRP1 |
| 13 | 20,025,000 | 20,175,000 | 268 | 816 | 0.119017992 | NRP1 |
| 13 | 20,100,000 | 20,250,000 | 269 | 739 | 0.561746798 | ITGB1 |
| 13 | 20,175,000 | 20,325,000 | 270 | 778 | 1.038842746 | ITGB1 |
| 13 | 20,250,000 | 20,400,000 | 271 | 959 | 1.222186374 | ITGB1 |
| 13 | 20,325,000 | 20,475,000 | 272 | 876 | 1.259604013 | |
| 13 | 20,400,000 | 20,550,000 | 273 | 584 | 1.179625907 | CCDC7 |
| 13 | 20,475,000 | 20,625,000 | 274 | 382 | 0.49647761 | ARL5B,CCDC7 |
| 13 | 20,550,000 | 20,700,000 | 275 | 736 | 0.796196392 | ARL5B,CCDC7 |
| 13 | 20,625,000 | 20,775,000 | 276 | 1092 | 0.611534135 | |
| 13 | 20,700,000 | 20,850,000 | 277 | 1325 | -0.172915234 | |
| 13 | 20,775,000 | 20,925,000 | 278 | 1533 | 0.322242415 | |
| 13 | 20,850,000 | 21,000,000 | 279 | 1407 | 1.172448177 | MGC152301 |
| 13 | 20,925,000 | 21,075,000 | 280 | 1259 | 0.630076905 | MGC152301,ENSBTAG00000023216 |
| 13 | 21,000,000 | 21,150,000 | 281 | 968 | -0.562142738 | ENSBTAG00000023216 |
| 13 | 21,075,000 | 21,225,000 | 282 | 964 | -0.119091648 | ENSBTAG00000023216 |
| 13 | 21,150,000 | 21,300,000 | 283 | 929 | -0.001544706 | ENSBTAG00000023216 |
| 13 | 21,225,000 | 21,375,000 | 284 | 1081 | -0.463556034 | ENSBTAG00000023216 |
| 13 | 21,300,000 | 21,450,000 | 285 | 1428 | -0.395406725 | ENSBTAG00000023216 |
| 13 | 21,375,000 | 21,525,000 | 286 | 1075 | -0.52624131 | ENSBTAG00000023216 |
| 13 | 21,450,000 | 21,600,000 | 287 | 735 | -0.866731845 | PLXDC2 |
| 13 | 21,525,000 | 21,675,000 | 288 | 696 | -0.122819414 | PLXDC2 |
| 13 | 21,600,000 | 21,750,000 | 289 | 633 | 0.614978761 | PLXDC2 |
| 13 | 21,675,000 | 21,825,000 | 290 | 730 | 0.456932644 | PLXDC2 |
| 13 | 21,750,000 | 21,900,000 | 291 | 1239 | -1.058515648 | PLXDC2 |
| 13 | 21,825,000 | 21,975,000 | 292 | 1614 | -1.515920778 | PLXDC2 |
| 13 | 21,900,000 | 22,050,000 | 293 | 1192 | -0.792531851 | PLXDC2 |
| 13 | 21,975,000 | 22,125,000 | 294 | 1024 | 0.878999944 | PLXDC2 |
| 13 | 22,050,000 | 22,200,000 | 295 | 1355 | 0.743210778 | |
| 13 | 22,125,000 | 22,275,000 | 296 | 1444 | 0.465725317 | |
| 13 | 22,200,000 | 22,350,000 | 297 | 1432 | 0.833766017 | |
| 13 | 22,275,000 | 22,425,000 | 298 | 1262 | 0.686484617 | NEBL |
| 13 | 22,350,000 | 22,500,000 | 299 | 1019 | 0.446473904 | NEBL |
| 13 | 22,425,000 | 22,575,000 | 300 | 900 | -0.035922455 | NEBL |
| 13 | 22,500,000 | 22,650,000 | 301 | 630 | -0.05198888 | |
| 13 | 22,575,000 | 22,725,000 | 302 | 515 | 0.85532713 | |
| 13 | 22,650,000 | 22,800,000 | 303 | 630 | 0.195179605 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 13 | 22,725,000 | 22,875,000 | 304 | 888 | -1.56507412 | ENSBTAG00000003937 |
| 13 | 22,800,000 | 22,950,000 | 305 | 747 | -1.587731594 | ENSBTAG00000003937 |
| 13 | 22,875,000 | 23,025,000 | 306 | 276 | -0.884831516 | SKIDA1 |
| 13 | 22,950,000 | 23,100,000 | 307 | 152 | -2.072475333 | MLLT10,SKIDA1 |
| 13 | 23,025,000 | 23,175,000 | 308 | 141 | -1.451919828 | MLLT10 |
| 13 | 23,100,000 | 23,250,000 | 309 | 137 | -1.457309625 | MLLT10 |
| 13 | 23,175,000 | 23,325,000 | 310 | 124 | -1.366957367 | DNAJC1,MLLT10 |
| 13 | 23,250,000 | 23,400,000 | 311 | 162 | -1.117722271 | DNAJC1 |
| 13 | 23,325,000 | 23,475,000 | 312 | 247 | -0.539959018 | DNAJC1 |
| 13 | 23,400,000 | 23,550,000 | 313 | 437 | -0.437747732 | DNAJC1 |
| 13 | 23,475,000 | 23,625,000 | 314 | 709 | -1.062217001 | |
| 13 | 23,550,000 | 23,700,000 | 315 | 665 | -0.516033683 | |
| 13 | 23,625,000 | 23,775,000 | 316 | 397 | 0.27794966 | BMI1,COMMD3,SPAG6 |
| 13 | 23,700,000 | 23,850,000 | 317 | 344 | 0.151859024 | BMI1,COMMD3,SPAG6 |
| 13 | 23,775,000 | 23,925,000 | 318 | 468 | 0.537311408 | PIP4K2A,SPAG6 |
| 13 | 23,850,000 | 24,000,000 | 319 | 642 | -0.046325526 | PIP4K2A |
| 13 | 23,925,000 | 24,075,000 | 320 | 697 | -0.119832567 | PIP4K2A |
| 13 | 24,000,000 | 24,150,000 | 321 | 514 | 0.658946373 | PIP4K2A |
| 13 | 24,075,000 | 24,225,000 | 322 | 335 | 1.106105308 | PIP4K2A |
| 13 | 24,150,000 | 24,300,000 | 323 | 712 | 1.263844174 | ARMC3 |
| 13 | 24,225,000 | 24,375,000 | 324 | 1063 | 0.846156178 | ARMC3 |
| 13 | 24,300,000 | 24,450,000 | 325 | 1081 | 0.516328189 | ARMC3,MSRB2 |
| 13 | 24,375,000 | 24,525,000 | 326 | 1081 | -0.36069046 | C10orf67,MSRB2,PTF1A |
| 13 | 24,450,000 | 24,600,000 | 327 | 928 | -2.889461295 | C10orf67,PTF1A |
| 13 | 24,525,000 | 24,675,000 | 328 | 1019 | -2.197507781 | C10orf67,OTUD1 |
| 13 | 24,600,000 | 24,750,000 | 329 | 1020 | -0.41801432 | OTUD1 |
| 13 | 24,675,000 | 24,825,000 | 330 | 843 | 0.93260416 | |
| 13 | 24,750,000 | 24,900,000 | 331 | 836 | 0.711723368 | |
| 13 | 24,825,000 | 24,975,000 | 332 | 579 | 0.111427818 | |
| 13 | 24,900,000 | 25,050,000 | 333 | 536 | 0.34469526 | |
| 13 | 24,975,000 | 25,125,000 | 334 | 753 | 0.534958201 | |
| 13 | 25,050,000 | 25,200,000 | 335 | 578 | 0.682009116 | |
| 13 | 25,125,000 | 25,275,000 | 336 | 485 | 1.013369469 | |
| 13 | 25,200,000 | 25,350,000 | 337 | 694 | 1.167131607 | KIAA1217 |
| 13 | 25,275,000 | 25,425,000 | 338 | 1274 | 1.126068903 | KIAA1217 |
| 13 | 25,350,000 | 25,500,000 | 339 | 1696 | 1.153538494 | KIAA1217 |
| 13 | 25,425,000 | 25,575,000 | 340 | 1424 | 0.897470225 | KIAA1217 |
| 13 | 25,500,000 | 25,650,000 | 341 | 1165 | -0.212866159 | KIAA1217 |
| 13 | 25,575,000 | 25,725,000 | 342 | 1056 | -0.571127282 | KIAA1217 |
| 13 | 25,650,000 | 25,800,000 | 343 | 1047 | -0.015903976 | ARHGAP21,KIAA1217 |
| 13 | 25,725,000 | 25,875,000 | 344 | 1104 | -0.196270505 | ARHGAP21 |
| 13 | 25,800,000 | 25,950,000 | 345 | 1095 | -0.571829183 | ARHGAP21 |
| 13 | 25,875,000 | 26,025,000 | 346 | 954 | -0.537878171 | |
| 13 | 25,950,000 | 26,100,000 | 347 | 592 | -1.353384874 | ENKUR,PRTFDC1 |
| 13 | 26,025,000 | 26,175,000 | 348 | 367 | -1.134544051 | ENKUR,PRTFDC1,THNSL1 |
| 13 | 26,100,000 | 26,250,000 | 349 | 374 | 0.117032008 | ENKUR,GPR158,THNSL1 |
| 13 | 26,175,000 | 26,325,000 | 350 | 385 | -0.765047797 | GPR158 |
| 13 | 26,250,000 | 26,400,000 | 351 | 354 | -1.205413228 | GPR158 |
| 13 | 26,325,000 | 26,475,000 | 352 | 406 | -1.780542046 | GPR158 |
| 13 | 26,400,000 | 26,550,000 | 353 | 505 | -0.993372198 | GPR158 |
| 13 | 26,475,000 | 26,625,000 | 354 | 604 | -1.555670016 | GPR158 |
| 13 | 26,550,000 | 26,700,000 | 355 | 770 | -1.260911297 | |
| 13 | 26,625,000 | 26,775,000 | 356 | 1052 | 0.308823486 | MYO3A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 26,700,000 | 26,850,000 | 357 | 779 | 0.506770667 | MYO3A |
| 13 | 26,775,000 | 26,925,000 | 358 | 511 | 0.289715648 | MYO3A |
| 13 | 26,850,000 | 27,000,000 | 359 | 636 | -1.468193729 | GAD2,MYO3A |
| 13 | 26,925,000 | 27,075,000 | 360 | 448 | -2.203055298 | FZD8,GAD2,GJD4,MYO3A |
| 13 | 27,000,000 | 27,150,000 | 361 | 317 | -1.355412408 | FZD8,GJD4 |
| 13 | 27,075,000 | 27,225,000 | 362 | 503 | 0.279181923 | |
| 13 | 27,150,000 | 27,300,000 | 363 | 696 | 0.844522794 | |
| 13 | 27,225,000 | 27,375,000 | 364 | 681 | -0.256595044 | |
| 13 | 27,300,000 | 27,450,000 | 365 | 635 | -1.085958089 | |
| 13 | 27,375,000 | 27,525,000 | 366 | 781 | 0.107428085 | |
| 13 | 27,450,000 | 27,600,000 | 367 | 929 | -0.513501871 | |
| 13 | 27,525,000 | 27,675,000 | 368 | 861 | -0.578942179 | |
| 13 | 27,600,000 | 27,750,000 | 369 | 937 | 0.442407482 | |
| 13 | 27,675,000 | 27,825,000 | 370 | 1045 | 0.647255303 | |
| 13 | 27,750,000 | 27,900,000 | 371 | 981 | 0.91944386 | |
| 13 | 27,825,000 | 27,975,000 | 372 | 974 | 0.815676587 | |
| 13 | 27,900,000 | 28,050,000 | 373 | 944 | 0.565065079 | |
| 13 | 27,975,000 | 28,125,000 | 374 | 748 | 0.940570267 | OPTN |
| 13 | 28,050,000 | 28,200,000 | 375 | 847 | 1.237182546 | MCM10,OPTN |
| 13 | 28,125,000 | 28,275,000 | 376 | 957 | 1.122451844 | MCM10,PHYH,ENSBTAG00000047869 |
| 13 | 28,200,000 | 28,350,000 | 377 | 830 | 1.100333713 | PHYH,SEPHS1,ENSBTAG00000047869 |
| 13 | 28,275,000 | 28,425,000 | 378 | 740 | 0.820742679 | BEND7,PHYH,SEPHS1 |
| 13 | 28,350,000 | 28,500,000 | 379 | 617 | 0.7343658 | BEND7 |
| 13 | 28,425,000 | 28,575,000 | 380 | 498 | 1.09157501 | BEND7,PRPF18 |
| 13 | 28,500,000 | 28,650,000 | 381 | 410 | 0.868448766 | FRMD4A,PRPF18 |
| 13 | 28,575,000 | 28,725,000 | 382 | 478 | -0.969949067 | FRMD4A,PRPF18 |
| 13 | 28,650,000 | 28,800,000 | 383 | 675 | -0.836614225 | FRMD4A |
| 13 | 28,725,000 | 28,875,000 | 384 | 600 | 0.264994782 | FRMD4A |
| 13 | 28,800,000 | 28,950,000 | 385 | 491 | 0.652097043 | FRMD4A |
| 13 | 28,875,000 | 29,025,000 | 386 | 561 | 0.415589847 | FRMD4A |
| 13 | 28,950,000 | 29,100,000 | 387 | 892 | -1.048078611 | FRMD4A |
| 13 | 29,025,000 | 29,175,000 | 388 | 1117 | -1.040242434 | |
| 13 | 29,100,000 | 29,250,000 | 389 | 1435 | -0.721620759 | |
| 13 | 29,175,000 | 29,325,000 | 390 | 1247 | -0.636664884 | |
| 13 | 29,250,000 | 29,400,000 | 391 | 936 | 0.990108031 | |
| 13 | 29,325,000 | 29,475,000 | 392 | 1283 | -1.107682269 | |
| 13 | 29,400,000 | 29,550,000 | 393 | 1291 | -2.420981523 | FAM107B |
| 13 | 29,475,000 | 29,625,000 | 394 | 1237 | -1.297583389 | FAM107B |
| 13 | 29,550,000 | 29,700,000 | 395 | 1245 | -0.07593125 | FAM107B |
| 13 | 29,625,000 | 29,775,000 | 396 | 846 | 0.550512758 | CDNF |
| 13 | 29,700,000 | 29,850,000 | 397 | 343 | 0.508202219 | CDNF,DCLRE1C,HSPA14,SUV39H2,ENSBTAG00000045609 |
| 13 | 29,775,000 | 29,925,000 | 398 | 495 | 0.868124971 | CDNF,DCLRE1C,HSPA14,MEIG1,OLAH,SUV39H2,ENSBTAG00000045609 |
| 13 | 29,850,000 | 30,000,000 | 399 | 537 | 0.297070704 | ACBD7,DCLRE1C,MEIG1,NMT2,OLAH,RPP38 |
| 13 | 29,925,000 | 30,075,000 | 400 | 581 | -2.65294822 | ACBD7,C13H10ORF38,NMT2,OLAH,RPP38 |
| 13 | 30,000,000 | 30,150,000 | 401 | 921 | -1.733609425 | C13H10ORF38,NMT2 |
| 13 | 30,075,000 | 30,225,000 | 402 | 1150 | -1.235503519 | C13H10ORF38 |
| 13 | 30,150,000 | 30,300,000 | 403 | 1072 | -1.803499107 | |
| 13 | 30,225,000 | 30,375,000 | 404 | 966 | -0.248249456 | ITGA8 |
| 13 | 30,300,000 | 30,450,000 | 405 | 1022 | 1.386300618 | ITGA8 |
| 13 | 30,375,000 | 30,525,000 | 406 | 1015 | 0.837657988 | ITGA8 |
| 13 | 30,450,000 | 30,600,000 | 407 | 905 | -0.688107632 | ITGA8 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 13 | 30,525,000 | 30,675,000 | 408 | 757 | -0.78143493 | FAM188A,ITGA8 |
| 13 | 30,600,000 | 30,750,000 | 409 | 879 | 0.473167157 | FAM188A |
| 13 | 30,675,000 | 30,825,000 | 410 | 1257 | 0.699171779 | FAM188A |
| 13 | 30,750,000 | 30,900,000 | 411 | 1242 | 0.737594537 | |
| 13 | 30,825,000 | 30,975,000 | 412 | 867 | 0.738565259 | |
| 13 | 30,900,000 | 31,050,000 | 413 | 711 | 0.484149409 | |
| 13 | 30,975,000 | 31,125,000 | 414 | 746 | -0.054789458 | |
| 13 | 31,050,000 | 31,200,000 | 415 | 839 | 0.425331253 | |
| 13 | 31,125,000 | 31,275,000 | 416 | 896 | 1.247554195 | PTER |
| 13 | 31,200,000 | 31,350,000 | 417 | 785 | 1.387354382 | C1QL3,PTER,RSU1 |
| 13 | 31,275,000 | 31,425,000 | 418 | 1034 | 1.135641631 | C1QL3,PTER,RSU1 |
| 13 | 31,350,000 | 31,500,000 | 419 | 970 | 0.761769968 | RSU1 |
| 13 | 31,425,000 | 31,575,000 | 420 | 692 | -1.708010532 | CUBN,RSU1 |
| 13 | 31,500,000 | 31,650,000 | 421 | 1044 | -1.955952514 | CUBN,RSU1 |
| 13 | 31,575,000 | 31,725,000 | 422 | 900 | -0.826639648 | CUBN |
| 13 | 31,650,000 | 31,800,000 | 423 | 742 | -0.645151132 | CUBN |
| 13 | 31,725,000 | 31,875,000 | 424 | 809 | -1.189431902 | CUBN,TRDMT1 |
| 13 | 31,800,000 | 31,950,000 | 425 | 806 | -0.589350523 | CUBN,TRDMT1,VIM |
| 13 | 31,875,000 | 32,025,000 | 426 | 742 | -1.182936364 | TRDMT1,VIM |
| 13 | 31,950,000 | 32,100,000 | 427 | 527 | -2.911991856 | ST8SIA6,VIM |
| 13 | 32,025,000 | 32,175,000 | 428 | 386 | -2.304928817 | ST8SIA6 |
| 13 | 32,100,000 | 32,250,000 | 429 | 299 | -0.720602086 | ST8SIA6 |
| 13 | 32,175,000 | 32,325,000 | 430 | 282 | -0.647684873 | ST8SIA6 |
| 13 | 32,250,000 | 32,400,000 | 431 | 349 | -1.006475497 | PTPLA,STAM |
| 13 | 32,325,000 | 32,475,000 | 432 | 438 | -1.182991575 | PTPLA,STAM |
| 13 | 32,400,000 | 32,550,000 | 433 | 434 | -1.175429473 | MRC1,STAM,TMEM236 |
| 13 | 32,475,000 | 32,625,000 | 434 | 546 | -1.562178387 | MRC1,TMEM236 |
| 13 | 32,550,000 | 32,700,000 | 435 | 618 | -1.366835025 | MRC1,SLC39A12 |
| 13 | 32,625,000 | 32,775,000 | 436 | 424 | -0.864575976 | MRC1,SLC39A12 |
| 13 | 32,700,000 | 32,850,000 | 437 | 397 | 0.159283675 | SLC39A12 |
| 13 | 32,775,000 | 32,925,000 | 438 | 660 | 0.247827839 | |
| 13 | 32,850,000 | 33,000,000 | 439 | 834 | 0.414261816 | |
| 13 | 32,925,000 | 33,075,000 | 440 | 621 | 0.747698266 | CACNB2 |
| 13 | 33,000,000 | 33,150,000 | 441 | 587 | 0.786154599 | CACNB2 |
| 13 | 33,075,000 | 33,225,000 | 442 | 816 | -0.480478009 | CACNB2 |
| 13 | 33,150,000 | 33,300,000 | 443 | 733 | -1.895806806 | CACNB2,ENSBTAG00000022003 |
| 13 | 33,225,000 | 33,375,000 | 444 | 564 | -2.100186268 | CACNB2,ENSBTAG00000022003 |
| 13 | 33,300,000 | 33,450,000 | 445 | 650 | -2.114033642 | ENSBTAG00000022003 |
| 13 | 33,375,000 | 33,525,000 | 446 | 593 | -1.294286366 | EPC1 |
| 13 | 33,450,000 | 33,600,000 | 447 | 684 | -0.622425126 | EPC1 |
| 13 | 33,525,000 | 33,675,000 | 448 | 948 | -0.535988858 | KIF5B |
| 13 | 33,600,000 | 33,750,000 | 449 | 584 | -0.158930178 | ARHGAP12,KIF5B |
| 13 | 33,675,000 | 33,825,000 | 450 | 259 | 0.795999994 | ARHGAP12 |
| 13 | 33,750,000 | 33,900,000 | 451 | 411 | 0.659495294 | ARHGAP12 |
| 13 | 33,825,000 | 33,975,000 | 452 | 548 | -0.751243922 | ARHGAP12 |
| 13 | 33,900,000 | 34,050,000 | 453 | 485 | -1.815011999 | |
| 13 | 33,975,000 | 34,125,000 | 454 | 440 | -1.561634138 | ZEB1 |
| 13 | 34,050,000 | 34,200,000 | 455 | 399 | -1.596915087 | ZEB1 |
| 13 | 34,125,000 | 34,275,000 | 456 | 340 | -1.052685628 | ZEB1 |
| 13 | 34,200,000 | 34,350,000 | 457 | 350 | -0.091653332 | ZEB1 |
| 13 | 34,275,000 | 34,425,000 | 458 | 415 | 0.520953771 | |
| 13 | 34,350,000 | 34,500,000 | 459 | 409 | 0.444609321 | |
| 13 | 34,425,000 | 34,575,000 | 460 | 378 | 0.432475094 | ZNF438 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 13 | 34,500,000 | 34,650,000 | 461 | 363 | 0.68858248 | ZNF438 |
| 13 | 34,575,000 | 34,725,000 | 462 | 286 | 0.535958774 | ZNF438 |
| 13 | 34,650,000 | 34,800,000 | 463 | 446 | 0.186101922 | ZNF438 |
| 13 | 34,725,000 | 34,875,000 | 464 | 606 | 0.332058779 | SVIL,ZNF438 |
| 13 | 34,800,000 | 34,950,000 | 465 | 590 | 0.246420429 | SVIL,ZNF438 |
| 13 | 34,875,000 | 35,025,000 | 466 | 683 | 0.297757946 | SVIL |
| 13 | 34,950,000 | 35,100,000 | 467 | 1052 | 0.176345181 | SVIL |
| 13 | 35,025,000 | 35,175,000 | 468 | 967 | -0.181941348 | |
| 13 | 35,100,000 | 35,250,000 | 469 | 542 | -0.250151606 | |
| 13 | 35,175,000 | 35,325,000 | 470 | 542 | 0.489277093 | |
| 13 | 35,250,000 | 35,400,000 | 471 | 456 | 0.423387134 | JCAD |
| 13 | 35,325,000 | 35,475,000 | 472 | 580 | 0.668758898 | JCAD |
| 13 | 35,400,000 | 35,550,000 | 473 | 862 | 0.708959804 | MTPAP |
| 13 | 35,475,000 | 35,625,000 | 474 | 756 | 0.12765554 | MAP3K8,MTPAP |
| 13 | 35,550,000 | 35,700,000 | 475 | 600 | -0.023545096 | MAP3K8,MTPAP |
| 13 | 35,625,000 | 35,775,000 | 476 | 552 | 0.361470695 | MAP3K8 |
| 13 | 35,700,000 | 35,850,000 | 477 | 548 | 0.111716838 | LYZL1 |
| 13 | 35,775,000 | 35,925,000 | 478 | 611 | -0.324359545 | LYZL1 |
| 13 | 35,850,000 | 36,000,000 | 479 | 594 | -0.755137013 | |
| 13 | 35,925,000 | 36,075,000 | 480 | 468 | -1.159906125 | |
| 13 | 36,000,000 | 36,150,000 | 481 | 395 | -1.203537914 | |
| 13 | 36,075,000 | 36,225,000 | 482 | 512 | -1.49069639 | |
| 13 | 36,150,000 | 36,300,000 | 483 | 855 | -0.840470961 | |
| 13 | 36,225,000 | 36,375,000 | 484 | 1029 | -0.02053934 | BAMBI,WAC |
| 13 | 36,300,000 | 36,450,000 | 485 | 780 | 0.340775287 | BAMBI,WAC |
| 13 | 36,375,000 | 36,525,000 | 486 | 554 | 0.544155022 | WAC |
| 13 | 36,450,000 | 36,600,000 | 487 | 688 | 0.43303809 | |
| 13 | 36,525,000 | 36,675,000 | 488 | 836 | 0.55422921 | MPP7 |
| 13 | 36,600,000 | 36,750,000 | 489 | 630 | 0.145288285 | MPP7 |
| 13 | 36,675,000 | 36,825,000 | 490 | 491 | 0.146824873 | MPP7 |
| 13 | 36,750,000 | 36,900,000 | 491 | 741 | 0.761090707 | ARMC4,MPP7 |
| 13 | 36,825,000 | 36,975,000 | 492 | 984 | 0.781090879 | ARMC4,MPP7 |
| 13 | 36,900,000 | 37,050,000 | 493 | 956 | 0.457364241 | ARMC4 |
| 13 | 36,975,000 | 37,125,000 | 494 | 778 | -0.116387119 | ARMC4 |
| 13 | 37,050,000 | 37,200,000 | 495 | 642 | 0.029055305 | MKX |
| 13 | 37,125,000 | 37,275,000 | 496 | 501 | 0.164713272 | MKX |
| 13 | 37,200,000 | 37,350,000 | 497 | 944 | 0.983372284 | RAB18 |
| 13 | 37,275,000 | 37,425,000 | 498 | 1055 | 1.038939045 | RAB18,ENSBTAG00000048079 |
| 13 | 37,350,000 | 37,500,000 | 499 | 738 | -1.137513879 | ENSBTAG00000048079 |
| 13 | 37,425,000 | 37,575,000 | 500 | 838 | -1.144199331 | |
| 13 | 37,500,000 | 37,650,000 | 501 | 860 | -0.710849355 | |
| 13 | 37,575,000 | 37,725,000 | 502 | 834 | -0.5803996 | |
| 13 | 37,650,000 | 37,800,000 | 503 | 845 | 0.357431197 | |
| 13 | 37,725,000 | 37,875,000 | 504 | 748 | 0.03367846 | PCSK2 |
| 13 | 37,800,000 | 37,950,000 | 505 | 490 | -1.195076108 | PCSK2 |
| 13 | 37,875,000 | 38,025,000 | 506 | 481 | -0.157625148 | PCSK2 |
| 13 | 37,950,000 | 38,100,000 | 507 | 711 | 0.932917066 | PCSK2,SLC6A9 |
| 13 | 38,025,000 | 38,175,000 | 508 | 780 | 1.200036012 | PCSK2,SLC6A9 |
| 13 | 38,100,000 | 38,250,000 | 509 | 677 | 0.593488472 | BFSP1,SLC6A9 |
| 13 | 38,175,000 | 38,325,000 | 510 | 576 | -0.438427679 | BFSP1,DSTN,RRBP1 |
| 13 | 38,250,000 | 38,400,000 | 511 | 446 | -2.464381765 | BANF2,DSTN,RRBP1 |
| 13 | 38,325,000 | 38,475,000 | 512 | 381 | -2.626043957 | BANF2 |
| 13 | 38,400,000 | 38,550,000 | 513 | 432 | -0.118268545 | MGME1,SNX5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 13 | 38,475,000 | 38,625,000 | 514 | 548 | 0.337625286 | MGME1,OVOL2,SNX5 |
| 13 | 38,550,000 | 38,700,000 | 515 | 756 | 0.511872961 | CSRP2BP,MGME1,OVOL2 |
| 13 | 38,625,000 | 38,775,000 | 516 | 696 | 0.317907504 | CSRP2BP,ZNF133 |
| 13 | 38,700,000 | 38,850,000 | 517 | 578 | -0.291543358 | C13H20ORF12,POLR3F,ZNF133 |
| 13 | 38,775,000 | 38,925,000 | 518 | 530 | -1.142871164 | C13H20ORF12,DTD1,POLR3F,RBBP9,SEC23B |
| 13 | 38,850,000 | 39,000,000 | 519 | 499 | -1.243249562 | DTD1,POLR3F,RBBP9,RPL5,SEC23B |
| 13 | 38,925,000 | 39,075,000 | 520 | 797 | 0.505461609 | DTD1,RPL5,SCP2D1 |
| 13 | 39,000,000 | 39,150,000 | 521 | 1208 | 0.842367538 | SCP2D1 |
| 13 | 39,075,000 | 39,225,000 | 522 | 856 | 0.741351722 | SLC24A3 |
| 13 | 39,150,000 | 39,300,000 | 523 | 423 | 0.621249187 | SLC24A3 |
| 13 | 39,225,000 | 39,375,000 | 524 | 564 | 0.82128085 | SLC24A3 |
| 13 | 39,300,000 | 39,450,000 | 525 | 718 | 0.189817876 | SLC24A3 |
| 13 | 39,375,000 | 39,525,000 | 526 | 761 | 0.025435544 | SLC24A3 |
| 13 | 39,450,000 | 39,600,000 | 527 | 938 | -0.12975964 | SLC24A3 |
| 13 | 39,525,000 | 39,675,000 | 528 | 1297 | -0.026351573 | SLC24A3,ENSBTAG00000032893 |
| 13 | 39,600,000 | 39,750,000 | 529 | 1161 | 0.239695188 | SLC24A3,ENSBTAG00000032893 |
| 13 | 39,675,000 | 39,825,000 | 530 | 993 | 0.137158231 | RIN2 |
| 13 | 39,750,000 | 39,900,000 | 531 | 895 | 0.30608968 | NAA20,RIN2 |
| 13 | 39,825,000 | 39,975,000 | 532 | 695 | 0.581614125 | CFAP61,CRNKL1,NAA20,RIN2 |
| 13 | 39,900,000 | 40,050,000 | 533 | 985 | 0.579909192 | CFAP61,CRNKL1,NAA20 |
| 13 | 39,975,000 | 40,125,000 | 534 | 1198 | 0.472479085 | CFAP61 |
| 13 | 40,050,000 | 40,200,000 | 535 | 910 | 0.536596589 | CFAP61 |
| 13 | 40,125,000 | 40,275,000 | 536 | 716 | 0.776651497 | CFAP61,INSM1 |
| 13 | 40,200,000 | 40,350,000 | 537 | 756 | 0.2477267 | CFAP61,INSM1,RALGAPA2 |
| 13 | 40,275,000 | 40,425,000 | 538 | 918 | 0.583833452 | RALGAPA2 |
| 13 | 40,350,000 | 40,500,000 | 539 | 1112 | 1.055817323 | RALGAPA2 |
| 13 | 40,425,000 | 40,575,000 | 540 | 1296 | 1.091692202 | RALGAPA2 |
| 13 | 40,500,000 | 40,650,000 | 541 | 1174 | 0.921490744 | RALGAPA2 |
| 13 | 40,575,000 | 40,725,000 | 542 | 917 | 0.021449208 | |
| 13 | 40,650,000 | 40,800,000 | 543 | 955 | -0.631025334 | |
| 13 | 40,725,000 | 40,875,000 | 544 | 954 | 0.156096681 | KIZ |
| 13 | 40,800,000 | 40,950,000 | 545 | 812 | 0.525378413 | KIZ |
| 13 | 40,875,000 | 41,025,000 | 546 | 788 | 0.652876091 | KIZ,XRN2 |
| 13 | 40,950,000 | 41,100,000 | 547 | 627 | 0.963085618 | NKX2-4,XRN2 |
| 13 | 41,025,000 | 41,175,000 | 548 | 506 | 0.862105154 | NAP1L1,NKX2-2,NKX2-4,XRN2 |
| 13 | 41,100,000 | 41,250,000 | 549 | 526 | 0.878618797 | NAP1L1,NKX2-2,PAX1 |
| 13 | 41,175,000 | 41,325,000 | 550 | 471 | 0.929114621 | PAX1 |
| 13 | 41,250,000 | 41,400,000 | 551 | 636 | 0.845071383 | PAX1 |
| 13 | 41,325,000 | 41,475,000 | 552 | 673 | -0.959701992 | |
| 13 | 41,400,000 | 41,550,000 | 553 | 566 | -0.538113607 | |
| 13 | 41,475,000 | 41,625,000 | 554 | 497 | 0.745726564 | |
| 13 | 41,550,000 | 41,700,000 | 555 | 723 | -0.824787898 | |
| 13 | 41,625,000 | 41,775,000 | 556 | 1152 | 0.333192657 | |
| 13 | 41,700,000 | 41,850,000 | 557 | 984 | 1.245415047 | |
| 13 | 41,775,000 | 41,925,000 | 558 | 471 | 0.709618062 | FOXA2 |
| 13 | 41,850,000 | 42,000,000 | 559 | 460 | -0.136083197 | FOXA2 |
| 13 | 41,925,000 | 42,075,000 | 560 | 808 | -1.318949452 | |
| 13 | 42,000,000 | 42,150,000 | 561 | 768 | -2.149204716 | |
| 13 | 42,075,000 | 42,225,000 | 562 | 504 | -1.107573584 | THBD |
| 13 | 42,150,000 | 42,300,000 | 563 | 513 | -0.47229459 | CD93,THBD |
| 13 | 42,225,000 | 42,375,000 | 564 | 1018 | 0.492916388 | CD93 |
| 13 | 42,300,000 | 42,450,000 | 565 | 1268 | 0.90242612 | GZF1,NAPB,NXT1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 42,375,000 | 42,525,000 | 566 | 1074 | 0.708904586 | CST11,CST8,CSTL1,GZF1,MGC133636,NAPB,NXT1,ENSBTAG00000015949,ENSBTAG00000027420 |
| 13 | 42,450,000 | 42,600,000 | 567 | 641 | 0.176869074 | CST11,CST3,CST8,CSTL1,MGC133636,NAPB,ENSBTAG00000015949,ENSBTAG00000027420,ENSBTAG0000032687,ENSBTAG00000047137 |
| 13 | 42,525,000 | 42,675,000 | 568 | 253 | 0.296443183 | CST3,ENSBTAG00000015949,ENSBTAG00000032687,ENSBTAG00000047137 |
| 13 | 42,600,000 | 42,750,000 | 569 | 384 | 0.024163844 | |
| 13 | 42,675,000 | 42,825,000 | 570 | 502 | -0.021923656 | SYNDIG1 |
| 13 | 42,750,000 | 42,900,000 | 571 | 445 | 0.113850568 | SYNDIG1 |
| 13 | 42,825,000 | 42,975,000 | 572 | 812 | -2.579259423 | APMAP,CST7,SYNDIG1 |
| 13 | 42,900,000 | 43,050,000 | 573 | 1072 | -3.025932067 | ACSS1,APMAP,CST7,ENTPD6 |
| 13 | 42,975,000 | 43,125,000 | 574 | 802 | -1.772189355 | ACSS1,APMAP,ENTPD6,VSX1 |
| 13 | 43,050,000 | 43,200,000 | 575 | 917 | -0.235274045 | ABHD12,ACSS1,ENTPD6,PYGB,VSX1 |
| 13 | 43,125,000 | 43,275,000 | 576 | 770 | -0.312375615 | ABHD12,ANKRD16,PYGB |
| 13 | 43,200,000 | 43,350,000 | 577 | 365 | -1.226632823 | ABHD12,ANKRD16,FAM208B,GDI2 |
| 13 | 43,275,000 | 43,425,000 | 578 | 418 | -1.043476472 | ASB13,FAM208B,GDI2 |
| 13 | 43,350,000 | 43,500,000 | 579 | 703 | 0.147511817 | ASB13,CALML3,FAM208B |
| 13 | 43,425,000 | 43,575,000 | 580 | 761 | 0.820612377 | CALML3,CALML5,NET1 |
| 13 | 43,500,000 | 43,650,000 | 581 | 869 | 0.748055443 | CALML5,NET1,TUBAL3,UCN3 |
| 13 | 43,575,000 | 43,725,000 | 582 | 801 | 0.541321756 | AKR1C4,TUBAL3,UCN3 |
| 13 | 43,650,000 | 43,800,000 | 583 | 612 | 0.591575142 | AKR1C4,ENSBTAG00000039643,ENSBTAG00000039722 |
| 13 | 43,725,000 | 43,875,000 | 584 | 1088 | 0.76477968 | ENSBTAG00000017938,ENSBTAG00000027419,ENSBTAG00000039643,ENSBTAG00000039722 |
| 13 | 43,800,000 | 43,950,000 | 585 | 1126 | 1.005246934 | ENSBTAG00000017938,ENSBTAG00000022564,ENSBTAG00000022571,ENSBTAG00000027419,ENSBTAG000039643 |
| 13 | 43,875,000 | 44,025,000 | 586 | 1007 | 0.714513497 | ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022571,ENSBTAG00000039289 |
| 13 | 43,950,000 | 44,100,000 | 587 | 1306 | 0.546066518 | ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022570,ENSBTAG00000039289 |
| 13 | 44,025,000 | 44,175,000 | 588 | 1171 | 0.919076548 | 20ALPHA-HSD,ENSBTAG00000021368,ENSBTAG00000022564,ENSBTAG00000022570 |
| 13 | 44,100,000 | 44,250,000 | 589 | 932 | 0.692482829 | 20ALPHA-HSD,AKR1E2,ENSBTAG00000017191,ENSBTAG00000022564 |
| 13 | 44,175,000 | 44,325,000 | 590 | 781 | 0.538399601 | AKR1E2,ENSBTAG00000017191 |
| 13 | 44,250,000 | 44,400,000 | 591 | 531 | -0.576439578 | |
| 13 | 44,325,000 | 44,475,000 | 592 | 594 | -1.189659142 | |
| 13 | 44,400,000 | 44,550,000 | 593 | 572 | -0.561891864 | |
| 13 | 44,475,000 | 44,625,000 | 594 | 626 | 0.751429398 | |
| 13 | 44,550,000 | 44,700,000 | 595 | 692 | 1.040427798 | |
| 13 | 44,625,000 | 44,775,000 | 596 | 455 | 0.739166959 | |
| 13 | 44,700,000 | 44,850,000 | 597 | 525 | 0.642146558 | |
| 13 | 44,775,000 | 44,925,000 | 598 | 609 | 0.019980916 | |
| 13 | 44,850,000 | 45,000,000 | 599 | 423 | -1.102217009 | KLF6 |
| 13 | 44,925,000 | 45,075,000 | 600 | 484 | -0.446437529 | KLF6 |
| 13 | 45,000,000 | 45,150,000 | 601 | 783 | -0.641237158 | |
| 13 | 45,075,000 | 45,225,000 | 602 | 794 | -0.705707064 | |
| 13 | 45,150,000 | 45,300,000 | 603 | 760 | 0.490878444 | |
| 13 | 45,225,000 | 45,375,000 | 604 | 1129 | 0.585739535 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 13 | 45,300,000 | 45,450,000 | 605 | 1311 | 0.132998563 | |
| 13 | 45,375,000 | 45,525,000 | 606 | 1373 | 0.345350585 | PFKP,PITRM1 |
| 13 | 45,450,000 | 45,600,000 | 607 | 1410 | 0.493914477 | PFKP,PITRM1 |
| 13 | 45,525,000 | 45,675,000 | 608 | 1127 | 0.538816287 | PFKP |
| 13 | 45,600,000 | 45,750,000 | 609 | 935 | 0.494206129 | |
| 13 | 45,675,000 | 45,825,000 | 610 | 935 | 0.505825371 | |
| 13 | 45,750,000 | 45,900,000 | 611 | 976 | 0.676693984 | |
| 13 | 45,825,000 | 45,975,000 | 612 | 1050 | 0.541209441 | |
| 13 | 45,900,000 | 46,050,000 | 613 | 1003 | 0.751944959 | |
| 13 | 45,975,000 | 46,125,000 | 614 | 934 | 0.765818951 | |
| 13 | 46,050,000 | 46,200,000 | 615 | 920 | 0.434477366 | |
| 13 | 46,125,000 | 46,275,000 | 616 | 778 | 0.710559743 | |
| 13 | 46,200,000 | 46,350,000 | 617 | 824 | 0.898072174 | |
| 13 | 46,275,000 | 46,425,000 | 618 | 722 | 0.613448648 | ADARB2 |
| 13 | 46,350,000 | 46,500,000 | 619 | 433 | -0.210964237 | ADARB2,ENSBTAG00000039356 |
| 13 | 46,425,000 | 46,575,000 | 620 | 384 | -0.33056605 | ADARB2,ENSBTAG00000039356 |
| 13 | 46,500,000 | 46,650,000 | 621 | 414 | -0.176830765 | ADARB2,WDR37,ENSBTAG00000039356 |
| 13 | 46,575,000 | 46,725,000 | 622 | 520 | -1.044072293 | ADARB2,GTPBP4,IDI1,WDR37 |
| 13 | 46,650,000 | 46,800,000 | 623 | 540 | -0.95814271 | GTPBP4,IDI1,LARP4B,WDR37 |
| 13 | 46,725,000 | 46,875,000 | 624 | 451 | -0.797308561 | LARP4B |
| 13 | 46,800,000 | 46,950,000 | 625 | 462 | -0.720999701 | LARP4B |
| 13 | 46,875,000 | 47,025,000 | 626 | 416 | 0.000764913 | |
| 13 | 46,950,000 | 47,100,000 | 627 | 296 | 0.165970975 | DIP2C |
| 13 | 47,025,000 | 47,175,000 | 628 | 401 | 0.680986276 | DIP2C |
| 13 | 47,100,000 | 47,250,000 | 629 | 462 | 0.804067526 | DIP2C,ZMYND11 |
| 13 | 47,175,000 | 47,325,000 | 630 | 379 | 0.528826195 | DIP2C,ZMYND11 |
| 13 | 47,250,000 | 47,400,000 | 631 | 445 | -0.066058901 | ZMYND11 |
| 13 | 47,325,000 | 47,475,000 | 632 | 570 | -0.351308264 | PRND,PRNP |
| 13 | 47,400,000 | 47,550,000 | 633 | 597 | 0.137409625 | PRND,PRNP,RASSF2 |
| 13 | 47,475,000 | 47,625,000 | 634 | 569 | 0.344265612 | RASSF2,SLC23A2 |
| 13 | 47,550,000 | 47,700,000 | 635 | 565 | 0.267341968 | SLC23A2 |
| 13 | 47,625,000 | 47,775,000 | 636 | 501 | -0.527040307 | SLC23A2 |
| 13 | 47,700,000 | 47,850,000 | 637 | 423 | -0.71607289 | CDS2,PCNA,SLC23A2,TMEM230 |
| 13 | 47,775,000 | 47,925,000 | 638 | 690 | 0.636904638 | CDS2,PCNA,PROKR2,TMEM230 |
| 13 | 47,850,000 | 48,000,000 | 639 | 827 | 0.805648151 | CDS2,PROKR2 |
| 13 | 47,925,000 | 48,075,000 | 640 | 974 | -0.143775968 | |
| 13 | 48,000,000 | 48,150,000 | 641 | 842 | -0.34484335 | GPCPD1 |
| 13 | 48,075,000 | 48,225,000 | 642 | 629 | 1.486084687 | GPCPD1 |
| 13 | 48,150,000 | 48,300,000 | 643 | 1018 | 1.146957346 | C2orf196,GPCPD1 |
| 13 | 48,225,000 | 48,375,000 | 644 | 1163 | 0.166953889 | C2orf196 |
| 13 | 48,300,000 | 48,450,000 | 645 | 1143 | -1.040516847 | C2orf196,CHGB |
| 13 | 48,375,000 | 48,525,000 | 646 | 914 | -1.503977944 | C2orf196,CHGB,MCM8,TRMT6 |
| 13 | 48,450,000 | 48,600,000 | 647 | 614 | 0.320792639 | CRLS1,LRRN4,MCM8,TRMT6 |
| 13 | 48,525,000 | 48,675,000 | 648 | 809 | 0.716080222 | CRLS1,FERMT1,LRRN4,MCM8 |
| 13 | 48,600,000 | 48,750,000 | 649 | 1134 | 0.246882172 | FERMT1 |
| 13 | 48,675,000 | 48,825,000 | 650 | 1049 | -0.567602147 | |
| 13 | 48,750,000 | 48,900,000 | 651 | 655 | -1.620076744 | |
| 13 | 48,825,000 | 48,975,000 | 652 | 470 | -1.372322011 | |
| 13 | 48,900,000 | 49,050,000 | 653 | 652 | -0.588889313 | |
| 13 | 48,975,000 | 49,125,000 | 654 | 740 | -1.114992182 | |
| 13 | 49,050,000 | 49,200,000 | 655 | 613 | -1.152380652 | |
| 13 | 49,125,000 | 49,275,000 | 656 | 589 | 0.236746868 | |
| 13 | 49,200,000 | 49,350,000 | 657 | 591 | 0.960754534 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 49,275,000 | 49,425,000 | 658 | 451 | 1.130838829 | |
| 13 | 49,350,000 | 49,500,000 | 659 | 393 | 1.244921361 | |
| 13 | 49,425,000 | 49,575,000 | 660 | 338 | 1.166912909 | BMP2 |
| 13 | 49,500,000 | 49,650,000 | 661 | 306 | 0.882050242 | BMP2 |
| 13 | 49,575,000 | 49,725,000 | 662 | 391 | 1.068753307 | |
| 13 | 49,650,000 | 49,800,000 | 663 | 370 | 1.078585957 | |
| 13 | 49,725,000 | 49,875,000 | 664 | 332 | 0.861819785 | |
| 13 | 49,800,000 | 49,950,000 | 665 | 417 | 1.026820103 | |
| 13 | 49,875,000 | 50,025,000 | 666 | 649 | 1.140314838 | |
| 13 | 49,950,000 | 50,100,000 | 667 | 633 | 0.987023212 | |
| 13 | 50,025,000 | 50,175,000 | 668 | 567 | -0.013939626 | |
| 13 | 50,100,000 | 50,250,000 | 669 | 609 | -0.625385545 | |
| 13 | 50,175,000 | 50,325,000 | 670 | 685 | -2.355018357 | |
| | | | | | | UBE2D3,ENSBTAG00000045555,ENSBTAG00000045753,ENSBTAG00000046276,ENSBTAG00000046631,ENSBTAG00000046776,ENSBTAG00000047102,ENSBTAG00000047638,ENSBTAG00000047653,ENSBTAG00000047962,ENSBTAG00000048089,ENSBTAG00000048291 |
| 13 | 50,250,000 | 50,400,000 | 671 | 496 | -2.798415343 | |
| | | | | | | UBE2D3,ENSBTAG00000045555,ENSBTAG00000045753,ENSBTAG00000046276,ENSBTAG00000046631,ENSBTAG00000046776,ENSBTAG00000047102,ENSBTAG00000047638,ENSBTAG00000047653,ENSBTAG00000047962,ENSBTAG00000048089,ENSBTAG00000048291 |
| 13 | 50,325,000 | 50,475,000 | 672 | 286 | -1.044198445 | |
| | | | | | | ENSBTAG00000046631 |
| 13 | 50,400,000 | 50,550,000 | 673 | 495 | -1.225572124 | |
| 13 | 50,475,000 | 50,625,000 | 674 | 649 | -0.770704022 | |
| 13 | 50,550,000 | 50,700,000 | 675 | 740 | 0.185387583 | |
| 13 | 50,625,000 | 50,775,000 | 676 | 596 | 0.328235346 | |
| 13 | 50,700,000 | 50,850,000 | 677 | 408 | 0.387805362 | |
| 13 | 50,775,000 | 50,925,000 | 678 | 367 | 0.796302504 | |
| 13 | 50,850,000 | 51,000,000 | 679 | 596 | 0.915082651 | |
| 13 | 50,925,000 | 51,075,000 | 680 | 865 | 0.928990384 | |
| 13 | 51,000,000 | 51,150,000 | 681 | 775 | 0.788501367 | HAO1 |
| 13 | 51,075,000 | 51,225,000 | 682 | 650 | 0.711429756 | HAO1,ENSBTAG00000032156 |
| 13 | 51,150,000 | 51,300,000 | 683 | 1311 | 0.953973899 | HAO1,ENSBTAG00000032156 |
| 13 | 51,225,000 | 51,375,000 | 684 | 1311 | 0.80178229 | ADRA1D |
| 13 | 51,300,000 | 51,450,000 | 685 | 889 | 0.525939355 | ADRA1D,SMOX |
| 13 | 51,375,000 | 51,525,000 | 686 | 1083 | 1.025333289 | ADRA1D,SMOX |
| 13 | 51,450,000 | 51,600,000 | 687 | 993 | 1.200593826 | |
| 13 | 51,525,000 | 51,675,000 | 688 | 838 | 0.799879631 | RNF24 |
| 13 | 51,600,000 | 51,750,000 | 689 | 851 | 0.351487676 | PANK2,RNF24 |
| 13 | 51,675,000 | 51,825,000 | 690 | 1009 | 0.553501585 | MAVS,PANK2,RNF24 |
| | | | | | | C20ORF29,C20orf27,CDC25B,CENPB,MAVS,PANK2,SP |
| 13 | 51,750,000 | 51,900,000 | 691 | 832 | 1.003809053 | EF1 |
| | | | | | | ADAM33,C20ORF29,C20orf27,CDC25B,CENPB,HSPA12B,SIGLEC1,SPEF1,ENSBTAG00000027412 |
| 13 | 51,825,000 | 51,975,000 | 692 | 511 | 0.593808719 | |
| | | | | | | ADAM33,ATRN,C20orf27,GFRA4,HSPA12B,SIGLEC1,ENSBTAG00000027412 |
| 13 | 51,900,000 | 52,050,000 | 693 | 325 | 0.210639145 | |
| | | | | | | ADAM33,ATRN,GFRA4 |
| 13 | 51,975,000 | 52,125,000 | 694 | 319 | -0.258090564 | |
| 13 | 52,050,000 | 52,200,000 | 695 | 372 | -0.256586116 | ATRN |
| 13 | 52,125,000 | 52,275,000 | 696 | 383 | -0.341477844 | ATRN,C13H20orf194 |
| 13 | 52,200,000 | 52,350,000 | 697 | 353 | -0.815143321 | C13H20orf194 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 52,275,000 | 52,425,000 | 698 | 311 | -1.130707108 | C13H20orf194 |
| 13 | 52,350,000 | 52,500,000 | 699 | 321 | -1.938015122 | C13H20orf194,DDR GK1,ITPA,SLC4A11,ENSBTAG0000020454 |
| 13 | 52,425,000 | 52,575,000 | 700 | 344 | -1.856233426 | AVP,DDR GK1,ITPA,SLC4A11,UBOX5,ENSBTAG00000020454 |
| 13 | 52,500,000 | 52,650,000 | 701 | 289 | -0.565086441 | AVP,MRPS26,OXT,PTPRA,UBOX5,ENSBTAG00000020454 |
| 13 | 52,575,000 | 52,725,000 | 702 | 221 | 0.878405461 | MRPS26,OXT,PTPRA |
| 13 | 52,650,000 | 52,800,000 | 703 | 259 | 0.871046944 | PTPRA,VPS16 |
| 13 | 52,725,000 | 52,875,000 | 704 | 406 | 0.176521155 | CPXM,PCED1A,PTPRA,TMEM239,VPS16,ENSBTAG000021817 |
| 13 | 52,800,000 | 52,950,000 | 705 | 769 | 0.191341135 | CPXM,EBF4,PCED1A,TMEM239,VPS16,ENSBTAG0000021817 |
| 13 | 52,875,000 | 53,025,000 | 706 | 1089 | 0.525189763 | EBF4,IDH3B,NOP56,TMC2 |
| 13 | 52,950,000 | 53,100,000 | 707 | 1106 | 0.771592455 | IDH3B,NOP56,TMC2 |
| 13 | 53,025,000 | 53,175,000 | 708 | 1178 | 0.981719896 | SNRPB,TGM6,TMC2 |
| 13 | 53,100,000 | 53,250,000 | 709 | 1301 | 0.886514538 | SNRPB,TGM6,TMC2 |
| 13 | 53,175,000 | 53,325,000 | 710 | 1069 | 0.582017457 | TGM3,TGM6,ENSBTAG00000022534 |
| 13 | 53,250,000 | 53,400,000 | 711 | 762 | 0.193741183 | TGM3,ENSBTAG00000022534 |
| 13 | 53,325,000 | 53,475,000 | 712 | 624 | -0.149989936 | |
| 13 | 53,400,000 | 53,550,000 | 713 | 573 | 0.230445018 | STK35 |
| 13 | 53,475,000 | 53,625,000 | 714 | 638 | 0.088551661 | PDYN,STK35 |
| 13 | 53,550,000 | 53,700,000 | 715 | 1633 | 0.528751013 | PDYN,SIRPA |
| 13 | 53,625,000 | 53,775,000 | 716 | 1990 | 0.635328207 | SIRPA |
| 13 | 53,700,000 | 53,850,000 | 717 | 1477 | 0.818888732 | SIRPA,ENSBTAG00000039016,ENSBTAG00000048087 |
| 13 | 53,775,000 | 53,925,000 | 718 | 1890 | -0.024515492 | SIRPB1,ENSBTAG00000039016,ENSBTAG00000048087 |
| 13 | 53,850,000 | 54,000,000 | 719 | 2268 | -0.94582352 | SIRPB1,ENSBTAG00000039016 |
| 13 | 53,925,000 | 54,075,000 | 720 | 1968 | -0.766576065 | GINS1,SIRPB1,ENSBTAG00000011638,ENSBTAG0000027221 |
| 13 | 54,000,000 | 54,150,000 | 721 | 1925 | -0.028836434 | GINS1,PCMTD2,ENSBTAG00000011638,ENSBTAG0000027221 |
| 13 | 54,075,000 | 54,225,000 | 722 | 1549 | 0.210585428 | GINS1,MYT1,PCMTD2 |
| 13 | 54,150,000 | 54,300,000 | 723 | 633 | 0.293737315 | LKAAEAR1,MYT1,NPBWR2,OPRL1,RGS19,SOX18,TCEA2 |
| 13 | 54,225,000 | 54,375,000 | 724 | 343 | 0.407060374 | LKAAEAR1,NPBWR2,OPRL1,PRPF6,RGS19,SAMD10,SOX18,TCEA2,UCKL1,ZNF512B |
| 13 | 54,300,000 | 54,450,000 | 725 | 260 | 0.022296034 | C13H20ORF135,DNAJC5,PRPF6,SAMD10,TPD52L2,UCKL1,ZNF512B |
| 13 | 54,375,000 | 54,525,000 | 726 | 244 | 0.091674245 | ARFRP1,C13H20ORF135,DNAJC5,SLC2A4RG,TPD52L2,ZBTB46,ZGPAT,ENSBTAG00000007501 |
| 13 | 54,450,000 | 54,600,000 | 727 | 287 | -0.175950742 | ARFRP1,C20orf195,GMEB2,PTK6,RTEL,RTEL1,SLC2A4RG,SRMS,STMN3,TNFRSF6B,ZBTB46,ZGPAT,ENSBTAG0000007501 |
| 13 | 54,525,000 | 54,675,000 | 728 | 326 | -1.10308819 | ARFRP1,C20orf195,EEF1A2,GMEB2,KCNQ2,PPDPF,PTK6,RTEL,RTEL1,SRMS,STMN3,TNFRSF6B |
| 13 | 54,600,000 | 54,750,000 | 729 | 533 | -0.538261333 | CHRNA4,COL20A1,EEF1A2,KCNQ2,PPDPF,PTK6 |
| 13 | 54,675,000 | 54,825,000 | 730 | 693 | -0.79874347 | ARFGAP3,BIRC7,CHRNA4,COL20A1,KCNQ2,YTHDF1 |
| 13 | 54,750,000 | 54,900,000 | 731 | 881 | -1.398725235 | ARFGAP3,BHLHE23,BIRC7,COL20A1,YTHDF1 |
| 13 | 54,825,000 | 54,975,000 | 732 | 723 | -1.157385976 | BHLHE23,DIDO1,GID8,SLC17A9 |
| 13 | 54,900,000 | 55,050,000 | 733 | 294 | -0.167215983 | COL9A3,DIDO1,GID8,OGFR,SLC17A9,TCFL5 |
| 13 | 54,975,000 | 55,125,000 | 734 | 496 | 0.898899483 | C13H20orf20,COL9A3,DIDO1,NTSR1,OGFR,TCFL5 |
| 13 | 55,050,000 | 55,200,000 | 735 | 584 | 0.823128169 | C13H20orf20,NTSR1,OGFR,SLCO4A1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 55,125,000 | 55,275,000 | 736 | 426 | 0.371854641 | NTSR1,SLCO4A1 |
| 13 | 55,200,000 | 55,350,000 | 737 | 401 | 0.196253913 | CABLES2,GATA5,RBBP8NL |
| 13 | 55,275,000 | 55,425,000 | 738 | 321 | 0.299781721 | CABLES2,GATA5,LAMA5,RBBP8NL,RPS21 |
| 13 | 55,350,000 | 55,500,000 | 739 | 348 | 1.017858383 | ADRM1,CABLES2,LAMA5,OSBPL2,RPS21 |
| 13 | 55,425,000 | 55,575,000 | 740 | 353 | 0.803313678 | ADRM1,GTPBP5,HRH3,LAMA5,OSBPL2,PSMA7,SS18L1,ENSBTAG00000021558 |
| 13 | 55,500,000 | 55,650,000 | 741 | 397 | -0.696047925 | GTPBP5,HRH3,PSMA7,SS18L1,TAF4,ENSBTAG00000021558 |
| 13 | 55,575,000 | 55,725,000 | 742 | 396 | -0.91480955 | CDH4,TAF4 |
| 13 | 55,650,000 | 55,800,000 | 743 | 481 | -0.697960421 | CDH4,TAF4 |
| 13 | 55,725,000 | 55,875,000 | 744 | 656 | -0.399298589 | CDH4 |
| 13 | 55,800,000 | 55,950,000 | 745 | 668 | -0.284465006 | CDH4 |
| 13 | 55,875,000 | 56,025,000 | 746 | 663 | -0.366884554 | |
| 13 | 55,950,000 | 56,100,000 | 747 | 748 | -0.093627818 | |
| 13 | 56,025,000 | 56,175,000 | 748 | 1000 | 0.439342375 | |
| 13 | 56,100,000 | 56,250,000 | 749 | 900 | 0.35864524 | |
| 13 | 56,175,000 | 56,325,000 | 750 | 814 | -0.554303172 | |
| 13 | 56,250,000 | 56,400,000 | 751 | 936 | 0.091755074 | |
| 13 | 56,325,000 | 56,475,000 | 752 | 856 | -0.178472076 | |
| 13 | 56,400,000 | 56,550,000 | 753 | 1165 | -1.584131098 | |
| 13 | 56,475,000 | 56,625,000 | 754 | 1244 | -1.029561805 | |
| 13 | 56,550,000 | 56,700,000 | 755 | 807 | -1.156725659 | |
| 13 | 56,625,000 | 56,775,000 | 756 | 641 | -1.961692853 | |
| 13 | 56,700,000 | 56,850,000 | 757 | 703 | -2.04061378 | |
| 13 | 56,775,000 | 56,925,000 | 758 | 909 | -1.107479299 | |
| 13 | 56,850,000 | 57,000,000 | 759 | 871 | -0.028074667 | |
| 13 | 56,925,000 | 57,075,000 | 760 | 875 | -0.021683632 | CDH26 |
| 13 | 57,000,000 | 57,150,000 | 761 | 745 | -0.44957683 | CDH26,FAM217B,PPP1R3D,SYCP2 |
| 13 | 57,075,000 | 57,225,000 | 762 | 421 | -0.666935898 | CDH26,FAM217B,PHACTR3,PPP1R3D,SYCP2 |
| 13 | 57,150,000 | 57,300,000 | 763 | 598 | -0.639057451 | PHACTR3,SYCP2 |
| 13 | 57,225,000 | 57,375,000 | 764 | 744 | -0.598470496 | PHACTR3 |
| 13 | 57,300,000 | 57,450,000 | 765 | 886 | -0.542464206 | |
| 13 | 57,375,000 | 57,525,000 | 766 | 770 | -1.524226279 | |
| 13 | 57,450,000 | 57,600,000 | 767 | 640 | -1.016932775 | EDN3 |
| 13 | 57,525,000 | 57,675,000 | 768 | 874 | -0.223300215 | EDN3,ZNF831 |
| 13 | 57,600,000 | 57,750,000 | 769 | 849 | -0.080603435 | ZNF831 |
| 13 | 57,675,000 | 57,825,000 | 770 | 782 | 0.784775103 | ZNF831 |
| 13 | 57,750,000 | 57,900,000 | 771 | 753 | 1.177165877 | ATP5E,CTSZ,NELFCD,SLMO2,TUBB1 |
| 13 | 57,825,000 | 57,975,000 | 772 | 689 | 0.978956854 | ATP5E,CTSZ,NELFCD,SLMO2,TUBB1 |
| 13 | 57,900,000 | 58,050,000 | 773 | 590 | -0.0659117 | GNAS,NELFCD |
| 13 | 57,975,000 | 58,125,000 | 774 | 419 | -0.290943383 | GNAS |
| 13 | 58,050,000 | 58,200,000 | 775 | 300 | -2.319454408 | |
| 13 | 58,125,000 | 58,275,000 | 776 | 224 | -2.665189694 | NPEPL1,ENSBTAG0000003872 |
| 13 | 58,200,000 | 58,350,000 | 777 | 212 | 0.880721884 | NPEPL1,ENSBTAG0000003872 |
| 13 | 58,275,000 | 58,425,000 | 778 | 256 | -0.392896313 | |
| 13 | 58,350,000 | 58,500,000 | 779 | 282 | -1.583562044 | APCDD1L,VAPB |
| 13 | 58,425,000 | 58,575,000 | 780 | 333 | -2.134089405 | APCDD1L,RAB22A,VAPB |
| 13 | 58,500,000 | 58,650,000 | 781 | 399 | -0.676068479 | RAB22A,VAPB |
| 13 | 58,575,000 | 58,725,000 | 782 | 431 | -0.073437675 | ANKRD60,C13H20ORF85,RAB22A |
| 13 | 58,650,000 | 58,800,000 | 783 | 321 | -0.217767606 | ANKRD60,C13H20ORF85 |
| 13 | 58,725,000 | 58,875,000 | 784 | 360 | 0.205255899 | C13H20ORF85 |
| 13 | 58,800,000 | 58,950,000 | 785 | 577 | 0.706533705 | |
| 13 | 58,875,000 | 59,025,000 | 786 | 628 | 0.846653018 | PMEPA1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 58,950,000 | 59,100,000 | 787 | 630 | 0.375133526 | PMEPA1,ZBP1 |
| 13 | 59,025,000 | 59,175,000 | 788 | 718 | -0.309557595 | PCK1,PMEPA1,ZBP1 |
| 13 | 59,100,000 | 59,250,000 | 789 | 787 | -0.933419006 | BORIS,PCK1,ZBP1 |
| 13 | 59,175,000 | 59,325,000 | 790 | 651 | -0.788791553 | BORIS,RAE1,RBM38 |
| 13 | 59,250,000 | 59,400,000 | 791 | 490 | 0.298581234 | RAE1,RBM38,SPO11 |
| 13 | 59,325,000 | 59,475,000 | 792 | 554 | -1.45532206 | BMP7,RAE1,SPO11 |
| 13 | 59,400,000 | 59,550,000 | 793 | 578 | -1.94275505 | BMP7 |
| 13 | 59,475,000 | 59,625,000 | 794 | 726 | -1.350527141 | BMP7 |
| 13 | 59,550,000 | 59,700,000 | 795 | 702 | -0.747801766 | |
| 13 | 59,625,000 | 59,775,000 | 796 | 509 | 0.83214342 | |
| 13 | 59,700,000 | 59,850,000 | 797 | 617 | 0.396383404 | |
| 13 | 59,775,000 | 59,925,000 | 798 | 675 | 0.078976799 | TFAP2C |
| 13 | 59,850,000 | 60,000,000 | 799 | 556 | 0.519982569 | FAM209B,GCNT7,RTFDC1,TFAP2C,ENSBTAG00000024608 |
| 13 | 59,925,000 | 60,075,000 | 800 | 419 | 0.090895794 | CASS4,FAM209B,GCNT7,RTFDC1,ENSBTAG00000024608 |
| 13 | 60,000,000 | 60,150,000 | 801 | 381 | -0.684451779 | AURKA,C13H20ORF108,CASS4,CSTF1,GCNT7,RTFDC1 |
| 13 | 60,075,000 | 60,225,000 | 802 | 306 | -1.195013522 | AURKA,C13H20ORF108,CSTF1,MC3R,SIRPD |
| 13 | 60,150,000 | 60,300,000 | 803 | 315 | -2.207631923 | FKBP1A,MC3R,NSFL1C,SIRPB2,SIRPD |
| 13 | 60,225,000 | 60,375,000 | 804 | 612 | -2.457598614 | FKBP1A,NSFL1C,SDCBP2,SIRPB2,SNPH |
| 13 | 60,300,000 | 60,450,000 | 805 | 623 | -2.400218905 | FKBP1A,RAD21L1,SDCBP2,SNPH |
| 13 | 60,375,000 | 60,525,000 | 806 | 1101 | -0.505587816 | PSMF1,RAD21L1,TMEM74B |
| 13 | 60,450,000 | 60,600,000 | 807 | 1415 | 0.069415533 | PSMF1,TMEM74B |
| 13 | 60,525,000 | 60,675,000 | 808 | 1116 | 0.470823328 | PSMF1 |
| 13 | 60,600,000 | 60,750,000 | 809 | 921 | 0.731238386 | ANGPTL4,RSPO4 |
| 13 | 60,675,000 | 60,825,000 | 810 | 664 | 0.750827702 | ANGPTL4,FAM110A,RSPO4 |
| 13 | 60,750,000 | 60,900,000 | 811 | 544 | 0.524243629 | ANGPTL4,FAM110A,SLC52A3 |
| 13 | 60,825,000 | 60,975,000 | 812 | 586 | 0.562106758 | SLC52A3,SRXN1 |
| 13 | 60,900,000 | 61,050,000 | 813 | 570 | 0.766703515 | SRXN1,TCF15 |
| 13 | 60,975,000 | 61,125,000 | 814 | 348 | 0.456114324 | CSNK2A1,TBC1D20,TCF15 |
| 13 | 61,050,000 | 61,200,000 | 815 | 300 | 0.59194371 | C20ORF18,CSNK2A1,TBC1D20,TRIB3 |
| 13 | 61,125,000 | 61,275,000 | 816 | 326 | 1.093949332 | C20ORF18,C20orf96,NRSN2,TBC1D20,TRIB3,ZCCHC3 |
| 13 | 61,200,000 | 61,350,000 | 817 | 468 | 1.304327772 | C20orf96,DEFB129,NRSN2,ZCCHC3 |
| 13 | 61,275,000 | 61,425,000 | 818 | 488 | 1.456239384 | C20orf96,DEFB129 |
| 13 | 61,350,000 | 61,500,000 | 819 | 493 | 1.48300399 | |
| 13 | 61,425,000 | 61,575,000 | 820 | 1155 | 0.888080578 | DEFB119,DEFB122,DEFB122A,ENSBTAG00000048009 |
| 13 | 61,500,000 | 61,650,000 | 821 | 1254 | 0.495676017 | DEFB119,DEFB122,DEFB122A,DEFB123,DEFB124,HM13,REM1,ENSBTAG00000048009 |
| 13 | 61,575,000 | 61,725,000 | 822 | 675 | 0.070764937 | DEFB122,DEFB123,DEFB124,HM13,REM1 |
| 13 | 61,650,000 | 61,800,000 | 823 | 510 | 0.773794765 | BCL2L1,COX4I2,HM13,ID1 |
| 13 | 61,725,000 | 61,875,000 | 824 | 387 | 0.965244343 | BCL2L1,COX4I2,ID1,TPX2 |
| 13 | 61,800,000 | 61,950,000 | 825 | 342 | 0.606421567 | BCL2L1,DUSP15,FOXS1,MYLK2,TPX2,ENSBTAG00000031214 |
| 13 | 61,875,000 | 62,025,000 | 826 | 408 | 0.799310248 | DUSP15,FOXS1,MYLK2,PDRG1,TPX2,TLL9,ENSBTAG00000031214 |
| 13 | 61,950,000 | 62,100,000 | 827 | 426 | -0.584672286 | CCM2L,DUSP15,PDRG1,TLL9,XKR7 |
| 13 | 62,025,000 | 62,175,000 | 828 | 362 | -1.348574922 | CCM2L,HCK,TM9SF4,XKR7 |
| 13 | 62,100,000 | 62,250,000 | 829 | 246 | -0.244172657 | HCK,PLAGL2,POFUT1,TM9SF4 |
| 13 | 62,175,000 | 62,325,000 | 830 | 223 | 0.618499831 | KIF3B,PLAGL2,POFUT1,TM9SF4 |
| 13 | 62,250,000 | 62,400,000 | 831 | 283 | 0.686759546 | ASXL1,KIF3B,POFUT1 |
| 13 | 62,325,000 | 62,475,000 | 832 | 311 | 0.030772817 | ASXL1,KIF3B,NOL4L |
| 13 | 62,400,000 | 62,550,000 | 833 | 370 | -0.226216017 | ASXL1,NOL4L |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 13 | 62,475,000 | 62,625,000 | 834 | 593 | 0.835025417 | NOL4L |
| 13 | 62,550,000 | 62,700,000 | 835 | 661 | 0.897410088 | COMMD7 |
| 13 | 62,625,000 | 62,775,000 | 836 | 437 | 0.671602137 | COMMD7,DNMT3B,MAPRE1 |
| 13 | 62,700,000 | 62,850,000 | 837 | 674 | 0.957785093 | DNMT3B,MAPRE1,SPAG4L |
| 13 | 62,775,000 | 62,925,000 | 838 | 1053 | 0.383801568 | BPIFB2,BPIFB3,BPIFB6,SPAG4L |
| 13 | 62,850,000 | 63,000,000 | 839 | 1405 | -0.15469822 | BPIFB2,BPIFB3,BPIFB4,BPIFB6,ENSBTAG00000038453 |
| 13 | 62,925,000 | 63,075,000 | 840 | 1496 | 0.047474584 | BPIFB4,ENSBTAG00000009144,ENSBTAG00000038453 |
| 13 | 63,000,000 | 63,150,000 | 841 | 1377 | 0.496115041 | BSP30C,BSP30D,ENSBTAG00000009144 |
| 13 | 63,075,000 | 63,225,000 | 842 | 1599 | 0.316844095 | BASE,BPIFA2B,BSP30C,BSP30D,ENSBTAG00000011704 |
| 13 | 63,150,000 | 63,300,000 | 843 | 1495 | -0.646919194 | BASE,BPIFA1,BPIFA2B,BPIFB1,C13H20ORF71,ENSBTAG00000011704 |
| 13 | 63,225,000 | 63,375,000 | 844 | 1497 | -1.605060735 | BPIFA1,BPIFB1,C13H20ORF71,CDK5RAP1,ENSBTAG0000031354,ENSBTAG00000031361 |
| 13 | 63,300,000 | 63,450,000 | 845 | 1610 | -1.468890701 | BPIFB1,CDK5RAP1,SNTA1,ENSBTAG00000031354,ENSBTAG00000031361 |
| 13 | 63,375,000 | 63,525,000 | 846 | 965 | -0.741581056 | CDK5RAP1,SNTA1 |
| 13 | 63,450,000 | 63,600,000 | 847 | 508 | 0.884253508 | SNTA1 |
| 13 | 63,525,000 | 63,675,000 | 848 | 566 | 0.676893803 | CBFA2T2 |
| 13 | 63,600,000 | 63,750,000 | 849 | 539 | 0.528289707 | ACTL10,C20orf144,CBFA2T2,E2F1,NECAB3,PXMP4 |
| 13 | 63,675,000 | 63,825,000 | 850 | 827 | 1.196415228 | ACTL10,C20orf144,CHMP4B,E2F1,NECAB3,PXMP4,ZNF341 |
| 13 | 63,750,000 | 63,900,000 | 851 | 1364 | 0.936945663 | CHMP4B,ZNF341 |
| 13 | 63,825,000 | 63,975,000 | 852 | 1206 | 0.304314395 | CHMP4B,RALY |
| 13 | 63,900,000 | 64,050,000 | 853 | 924 | 0.034961997 | RALY |
| 13 | 63,975,000 | 64,125,000 | 854 | 793 | 0.531216815 | EIF2S2,RALY |
| 13 | 64,050,000 | 64,200,000 | 855 | 745 | 0.879576767 | EIF2S2 |
| 13 | 64,125,000 | 64,275,000 | 856 | 738 | 0.849488317 | AHCY,ASIP |
| 13 | 64,200,000 | 64,350,000 | 857 | 576 | 0.49709639 | AHCY,ASIP |
| 13 | 64,275,000 | 64,425,000 | 858 | 603 | -0.169507147 | ITCH,ENSBTAG00000046623 |
| 13 | 64,350,000 | 64,500,000 | 859 | 685 | -0.231297727 | DYNLRB1,ITCH,MAP1LC3A,PIGU,ENSBTAG00000046623 |
| 13 | 64,425,000 | 64,575,000 | 860 | 759 | 0.520155181 | DYNLRB1,ITCH,MAP1LC3A,PIGU |
| 13 | 64,500,000 | 64,650,000 | 861 | 692 | 1.025777973 | NCOA6,PIGU,TP53INP2 |
| 13 | 64,575,000 | 64,725,000 | 862 | 596 | 1.088364275 | NCOA6,PIGU,TP53INP2 |
| 13 | 64,650,000 | 64,800,000 | 863 | 716 | 0.646757589 | ACSS2,GGT7,NCOA6 |
| 13 | 64,725,000 | 64,875,000 | 864 | 775 | 0.621531017 | ACSS2,GGT7,GSS,NCOA6 |
| 13 | 64,800,000 | 64,950,000 | 865 | 566 | 0.912459897 | ACSS2,GSS,MYH7B,TRPC4AP |
| 13 | 64,875,000 | 65,025,000 | 866 | 744 | 0.452344278 | EDEM2,MYH7B,TRPC4AP |
| 13 | 64,950,000 | 65,100,000 | 867 | 1093 | 0.395355913 | EDEM2,PROCR,TRPC4AP |
| 13 | 65,025,000 | 65,175,000 | 868 | 992 | 0.403327568 | EDEM2,MMP24,PROCR |
| 13 | 65,100,000 | 65,250,000 | 869 | 934 | 0.613473204 | EIF6,FAM83C,MMP24,PROCR,UQCC |
| 13 | 65,175,000 | 65,325,000 | 870 | 734 | 0.836049788 | EIF6,FAM83C,MMP24,UQCC |
| 13 | 65,250,000 | 65,400,000 | 871 | 396 | -0.21029511 | CEP250,GDF5,UQCC |
| 13 | 65,325,000 | 65,475,000 | 872 | 401 | -0.032833959 | C20orf173,CEP250,ERGIC3,GDF5,UQCC |
| 13 | 65,400,000 | 65,550,000 | 873 | 342 | 0.370442002 | C20orf173,CEP250,CPNE1,ERGIC3,NFS1,RBM12,SPAG4 |
| 13 | 65,475,000 | 65,625,000 | 874 | 273 | 0.529513713 | CPNE1,NFS1,PHF20,RBM12,RBM39,ROMO1,SPAG4 |
| 13 | 65,550,000 | 65,700,000 | 875 | 329 | 0.114694741 | NFS1,PHF20,RBM39,ROMO1 |
| 13 | 65,625,000 | 65,775,000 | 876 | 348 | -0.170065227 | CNBD2,PHF20,SCAND1 |
| 13 | 65,700,000 | 65,850,000 | 877 | 577 | 0.106187678 | CNBD2,PHF20,SCAND1 |
| 13 | 65,775,000 | 65,925,000 | 878 | 945 | 0.657493441 | CNBD2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 13 | 65,850,000 | 66,000,000 | 879 | 1007 | 1.260524135 | EPB41L1 |
| 13 | 65,925,000 | 66,075,000 | 880 | 714 | 1.190521325 | AAR2,EPB41L1 |
| 13 | 66,000,000 | 66,150,000 | 881 | 667 | 0.576488901 | AAR2,EPB41L1 |
| 13 | 66,075,000 | 66,225,000 | 882 | 640 | 0.133590769 | DLGAP4 |
| 13 | 66,150,000 | 66,300,000 | 883 | 521 | -0.067247897 | DLGAP4 |
| 13 | 66,225,000 | 66,375,000 | 884 | 603 | 0.09680784 | DLGAP4,MYL9,RIP5,SLA2,TGIF2 |
| 13 | 66,300,000 | 66,450,000 | 885 | 501 | -1.032802902 | MYL9,NDRG3,RIP5,SLA2,TGIF2,TLDC2 |
| 13 | 66,375,000 | 66,525,000 | 886 | 417 | -2.832908673 | NDRG3,SAMHD1,SLA2,TLDC2 |
| 13 | 66,450,000 | 66,600,000 | 887 | 319 | -1.536764811 | NDRG3,RBL1,SAMHD1 |
| 13 | 66,525,000 | 66,675,000 | 888 | 226 | -0.791228709 | DSN1,NDRG3,RBL1,SAMHD1,SOGA1 |
| 13 | 66,600,000 | 66,750,000 | 889 | 288 | -0.50157472 | DSN1,MROH8,RBL1,SOGA1 |
| 13 | 66,675,000 | 66,825,000 | 890 | 532 | -0.77085281 | MROH8,RBL1,RPN2 |
| 13 | 66,750,000 | 66,900,000 | 891 | 674 | -0.43045437 | GHRH,MANBAL,MROH8,RPN2 |
| 13 | 66,825,000 | 66,975,000 | 892 | 604 | -0.089069373 | GHRH,MANBAL,RPN2 |
| 13 | 66,900,000 | 67,050,000 | 893 | 583 | 0.473497711 | MANBAL,SRC |
| 13 | 66,975,000 | 67,125,000 | 894 | 543 | 1.056867932 | BLCAP,NNAT,SRC,ENSBTAG00000045928 |
| 13 | 67,050,000 | 67,200,000 | 895 | 696 | 0.638135266 | BLCAP,NNAT,ENSBTAG00000045928 |
| 13 | 67,125,000 | 67,275,000 | 896 | 904 | 0.096303795 | BLCAP,CTNNBL1 |
| 13 | 67,200,000 | 67,350,000 | 897 | 869 | 0.05026093 | CTNNBL1 |
| 13 | 67,275,000 | 67,425,000 | 898 | 719 | 0.273213659 | CTNNBL1 |
| 13 | 67,350,000 | 67,500,000 | 899 | 650 | -0.799300321 | CTNNBL1,VSTM2L |
| 13 | 67,425,000 | 67,575,000 | 900 | 699 | -0.914542376 | CTNNBL1,RPRD1B,TTI1,VSTM2L |
| 13 | 67,500,000 | 67,650,000 | 901 | 592 | -0.336445742 | RPRD1B,TTI1 |
| 13 | 67,575,000 | 67,725,000 | 902 | 671 | -1.863668826 | RPRD1B,TGM2 |
| 13 | 67,650,000 | 67,800,000 | 903 | 625 | -2.56068651 | KIAA1755,TGM2 |
| 13 | 67,725,000 | 67,875,000 | 904 | 837 | -0.963782656 | BPI,KIAA1755,LBP |
| 13 | 67,800,000 | 67,950,000 | 905 | 1337 | -0.30891469 | BPI,LBP |
| 13 | 67,875,000 | 68,025,000 | 906 | 1088 | 0.241507105 | LBP,ENSBTAG00000047302 |
| 13 | 67,950,000 | 68,100,000 | 907 | 516 | 0.574836767 | RALGAPB,ENSBTAG00000047302 |
| 13 | 68,025,000 | 68,175,000 | 908 | 574 | -2.145455628 | ADIG,RALGAPB |
| 13 | 68,100,000 | 68,250,000 | 909 | 955 | -1.591636037 | ACTR5,ADIG,RALGAPB,SLC32A1 |
| 13 | 68,175,000 | 68,325,000 | 910 | 860 | -0.343056531 | ACTR5,PPP1R16B,SLC32A1 |
| 13 | 68,250,000 | 68,400,000 | 911 | 1055 | -0.546697327 | DHX35,FAM83D,PPP1R16B |
| 13 | 68,325,000 | 68,475,000 | 912 | 1372 | -2.510268701 | DHX35,FAM83D,PPP1R16B |
| 13 | 68,400,000 | 68,550,000 | 913 | 1586 | -2.927828387 | DHX35 |
| 13 | 68,475,000 | 68,625,000 | 914 | 1355 | -1.061511583 | |
| 13 | 68,550,000 | 68,700,000 | 915 | 1096 | 1.193979292 | |
| 13 | 68,625,000 | 68,775,000 | 916 | 1223 | 0.82375986 | |
| 13 | 68,700,000 | 68,850,000 | 917 | 987 | 0.726401254 | |
| 13 | 68,775,000 | 68,925,000 | 918 | 611 | 1.238166914 | |
| 13 | 68,850,000 | 69,000,000 | 919 | 614 | 1.374919103 | |
| 13 | 68,925,000 | 69,075,000 | 920 | 895 | 1.162730655 | |
| 13 | 69,000,000 | 69,150,000 | 921 | 1157 | 0.869692875 | |
| 13 | 69,075,000 | 69,225,000 | 922 | 1029 | 0.589813429 | |
| 13 | 69,150,000 | 69,300,000 | 923 | 928 | -0.206121299 | |
| 13 | 69,225,000 | 69,375,000 | 924 | 1278 | 0.008230059 | |
| 13 | 69,300,000 | 69,450,000 | 925 | 1177 | 0.462815164 | |
| 13 | 69,375,000 | 69,525,000 | 926 | 1187 | 0.497624494 | |
| 13 | 69,450,000 | 69,600,000 | 927 | 1367 | -0.200964295 | |
| 13 | 69,525,000 | 69,675,000 | 928 | 1099 | -0.050281291 | |
| 13 | 69,600,000 | 69,750,000 | 929 | 1149 | 0.689556266 | |
| 13 | 69,675,000 | 69,825,000 | 930 | 1089 | 0.901768198 | |
| 13 | 69,750,000 | 69,900,000 | 931 | 993 | -0.04715269 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 13 | 69,825,000 | 69,975,000 | 932 | 964 | 0.012791632 | |
| 13 | 69,900,000 | 70,050,000 | 933 | 617 | 0.558685036 | |
| 13 | 69,975,000 | 70,125,000 | 934 | 400 | 0.130776389 | MAFB |
| 13 | 70,050,000 | 70,200,000 | 935 | 574 | 0.338156895 | MAFB |
| 13 | 70,125,000 | 70,275,000 | 936 | 1116 | 0.296489071 | |
| 13 | 70,200,000 | 70,350,000 | 937 | 915 | 0.019119661 | |
| 13 | 70,275,000 | 70,425,000 | 938 | 338 | -0.673137728 | TOP1 |
| 13 | 70,350,000 | 70,500,000 | 939 | 197 | -1.853720016 | TOP1 |
| 13 | 70,425,000 | 70,575,000 | 940 | 383 | -1.957659852 | PLCG1, TOP1, ZHX3 |
| 13 | 70,500,000 | 70,650,000 | 941 | 663 | -0.299705373 | PLCG1, ZHX3 |
| 13 | 70,575,000 | 70,725,000 | 942 | 598 | 0.575334467 | EMILIN3, LPIN3, ENSBTAG00000045671 |
| 13 | 70,650,000 | 70,800,000 | 943 | 875 | 0.283046965 | CHD6, EMILIN3, LPIN3, ENSBTAG00000045671 |
| 13 | 70,725,000 | 70,875,000 | 944 | 990 | -0.051536859 | CHD6 |
| 13 | 70,800,000 | 70,950,000 | 945 | 788 | -0.436276144 | CHD6 |
| 13 | 70,875,000 | 71,025,000 | 946 | 1099 | -0.340924714 | |
| 13 | 70,950,000 | 71,100,000 | 947 | 1006 | -0.117499175 | |
| 13 | 71,025,000 | 71,175,000 | 948 | 988 | -0.121954513 | |
| 13 | 71,100,000 | 71,250,000 | 949 | 1198 | 0.414050169 | |
| 13 | 71,175,000 | 71,325,000 | 950 | 929 | 0.034712601 | |
| 13 | 71,250,000 | 71,400,000 | 951 | 685 | -1.646125619 | PTPRT, ENSBTAG00000046673 |
| 13 | 71,325,000 | 71,475,000 | 952 | 827 | -2.081004745 | PTPRT, ENSBTAG00000046673 |
| 13 | 71,400,000 | 71,550,000 | 953 | 1137 | -1.83073956 | PTPRT |
| 13 | 71,475,000 | 71,625,000 | 954 | 1253 | -0.350779129 | PTPRT |
| 13 | 71,550,000 | 71,700,000 | 955 | 948 | 0.69254959 | PTPRT |
| 13 | 71,625,000 | 71,775,000 | 956 | 1066 | 0.665210057 | PTPRT |
| 13 | 71,700,000 | 71,850,000 | 957 | 1634 | -0.270718737 | |
| 13 | 71,775,000 | 71,925,000 | 958 | 1234 | -0.790813664 | |
| 13 | 71,850,000 | 72,000,000 | 959 | 876 | -0.577354493 | |
| 13 | 71,925,000 | 72,075,000 | 960 | 1306 | 0.067552265 | |
| 13 | 72,000,000 | 72,150,000 | 961 | 1333 | 0.460067187 | |
| 13 | 72,075,000 | 72,225,000 | 962 | 1225 | 0.56684071 | |
| 13 | 72,150,000 | 72,300,000 | 963 | 1411 | 0.829540118 | |
| 13 | 72,225,000 | 72,375,000 | 964 | 1128 | 0.287923876 | |
| 13 | 72,300,000 | 72,450,000 | 965 | 809 | -0.794493604 | |
| 13 | 72,375,000 | 72,525,000 | 966 | 932 | -0.496971854 | |
| 13 | 72,450,000 | 72,600,000 | 967 | 1168 | 0.432147226 | |
| 13 | 72,525,000 | 72,675,000 | 968 | 1070 | 0.99559526 | |
| 13 | 72,600,000 | 72,750,000 | 969 | 921 | 0.686931583 | |
| 13 | 72,675,000 | 72,825,000 | 970 | 859 | 0.733318191 | SRSF6 |
| 13 | 72,750,000 | 72,900,000 | 971 | 796 | 1.149859629 | IFT52, SGK2, SRSF6 |
| 13 | 72,825,000 | 72,975,000 | 972 | 776 | 1.151342486 | IFT52, MYBL2, SGK2 |
| 13 | 72,900,000 | 73,050,000 | 973 | 521 | 0.701922977 | GTSF1L, IFT52, MYBL2 |
| 13 | 72,975,000 | 73,125,000 | 974 | 560 | 0.633655028 | GTSF1L |
| 13 | 73,050,000 | 73,200,000 | 975 | 677 | 0.841014618 | TOX2 |
| 13 | 73,125,000 | 73,275,000 | 976 | 827 | 1.007243936 | TOX2 |
| 13 | 73,200,000 | 73,350,000 | 977 | 1055 | 1.080881397 | JPH2 |
| 13 | 73,275,000 | 73,425,000 | 978 | 802 | 0.183463577 | JPH2, OSER1 |
| 13 | 73,350,000 | 73,500,000 | 979 | 561 | -2.02120472 | FITM2, GDAP1L1, JPH2, OSER1, R3HDML |
| 13 | 73,425,000 | 73,575,000 | 980 | 635 | -1.236146454 | FITM2, GDAP1L1, HNF4A, R3HDML |
| 13 | 73,500,000 | 73,650,000 | 981 | 751 | -0.436226547 | HNF4A, R3HDML, SERINC3, TTPAL |
| 13 | 73,575,000 | 73,725,000 | 982 | 726 | -0.871683651 | PKIG, SERINC3, TTPAL |
| 13 | 73,650,000 | 73,800,000 | 983 | 759 | -0.868093864 | ADA, PKIG, SERINC3 |
| 13 | 73,725,000 | 73,875,000 | 984 | 708 | -0.528670355 | ADA, KCNK15, PKIG, WISP2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 13 | 73,800,000 | 73,950,000 | 985 | 834 | 0.168609953 | KCNK15,RIMS4,WISP2 |
| 13 | 73,875,000 | 74,025,000 | 986 | 1072 | 0.015254119 | RIMS4,YWHAB |
| 13 | 73,950,000 | 74,100,000 | 987 | 825 | -1.352801615 | PABPC1L,STK4,TOMM34,YWHAB |
| 13 | 74,025,000 | 74,175,000 | 988 | 966 | 0.328036232 | PABPC1L,STK4,TOMM34,YWHAB |
| 13 | 74,100,000 | 74,250,000 | 989 | 1315 | 0.907956334 | KCNS1,STK4,WFDC5,ENSBTAG00000020813,ENSBTAG00000046375 |
| 13 | 74,175,000 | 74,325,000 | 990 | 1524 | 0.068519498 | KCNS1,PI3,STK4,WFDC5,ENSBTAG00000014329,ENSBTAG00000020813,ENSBTAG00000039446,ENSBTAG00000046375 |
| 13 | 74,250,000 | 74,400,000 | 991 | 1079 | -0.363243871 | MATN4,PI3,RBPJL,SDC4,ENSBTAG00000014329,ENSBTAG00000039446 |
| 13 | 74,325,000 | 74,475,000 | 992 | 409 | -0.361048521 | DBNDD2,MATN4,PIGT,RBPJL,SDC4,SYS1,TP53TG5 |
| 13 | 74,400,000 | 74,550,000 | 993 | 1050 | 0.968198075 | DBNDD2,PIGT,SDC4,SYS1,TP53TG5,ENSBTAG00000014345,ENSBTAG00000016127,ENSBTAG00000037942,ENSBTAG00000046614 |
| 13 | 74,475,000 | 74,625,000 | 994 | 1668 | 1.040342046 | PIGT,ENSBTAG00000014345,ENSBTAG00000016127,ENSBTAG00000037942,ENSBTAG00000046614 |
| 13 | 74,550,000 | 74,700,000 | 995 | 1531 | 0.942131922 | ENSBTAG00000039693 |
| 13 | 74,625,000 | 74,775,000 | 996 | 1136 | 0.836057356 | ENSBTAG00000018122,ENSBTAG00000039693,ENSBTAG00000046704 |
| 13 | 74,700,000 | 74,850,000 | 997 | 681 | 0.555887827 | TKDP4,ENSBTAG00000018122,ENSBTAG00000038966,ENSBTAG00000046704 |
| 13 | 74,775,000 | 74,925,000 | 998 | 479 | 0.726279183 | TKDP1,TKDP4,ENSBTAG00000038966 |
| 13 | 74,850,000 | 75,000,000 | 999 | 807 | 0.494465685 | PTI,TKDP1,ENSBTAG00000045630 |
| 13 | 74,925,000 | 75,075,000 | 1000 | 1112 | 0.386897605 | PTI,ENSBTAG00000045630 |
| 13 | 75,000,000 | 75,150,000 | 1001 | 818 | 0.706588735 | PTI,SPINLW1,WFDC2,WFDC8,ENSBTAG00000045630 |
| 13 | 75,075,000 | 75,225,000 | 1002 | 590 | 1.189819962 | SPINLW1,WFDC10A,WFDC11,WFDC13,WFDC2,WFDC8,WFDC9,ENSBTAG00000030800,ENSBTAG00000030802 |
| 13 | 75,150,000 | 75,300,000 | 1003 | 862 | -1.253070255 | DNTTIP1,SPINT4,WFDC10A,WFDC11,WFDC13,WFDC3,WFDC9,ENSBTAG00000030800,ENSBTAG00000030802 |
| 13 | 75,225,000 | 75,375,000 | 1004 | 1015 | -1.2094107 | ACOT8,CTSA,DNTTIP1,NEURL2,PLTP,SPATA25,SPINT4,TNNC2,UBE2C,WFDC3,ZSWIM1,ZSWIM3 |
| 13 | 75,300,000 | 75,450,000 | 1005 | 962 | 0.005235026 | ACOT8,CTSA,DNTTIP1,NEURL2,PCIF1,PLTP,SPATA25,TNNC2,UBE2C,ZNF335,ZSWIM1,ZSWIM3 |
| 13 | 75,375,000 | 75,525,000 | 1006 | 767 | -0.097323171 | MMP9,NCOA5,PCIF1,PLTP,SLC12A5,ZNF335 |
| 13 | 75,450,000 | 75,600,000 | 1007 | 646 | 0.246436231 | CD40,MMP9,NCOA5,SLC12A5 |
| 13 | 75,525,000 | 75,675,000 | 1008 | 666 | -0.076918637 | CD40,CDH22,NCOA5 |
| 13 | 75,600,000 | 75,750,000 | 1009 | 629 | -0.271232102 | CDH22 |
| 13 | 75,675,000 | 75,825,000 | 1010 | 578 | -0.761920304 | CDH22,ELMO2,SLC35C2 |
| 13 | 75,750,000 | 75,900,000 | 1011 | 572 | -2.517812931 | ELMO2,SLC35C2,ENSBTAG00000027328 |
| 13 | 75,825,000 | 75,975,000 | 1012 | 942 | -0.473639882 | ELMO2,OCSTAMP,ENSBTAG00000009675,ENSBTAG00000027328,ENSBTAG00000047336 |
| 13 | 75,900,000 | 76,050,000 | 1013 | 937 | 0.260511648 | OCSTAMP,SLC13A3,ENSBTAG00000009675,ENSBTAG00000047336 |
| 13 | 75,975,000 | 76,125,000 | 1014 | 915 | -0.58138722 | SLC13A3,SLC2A10,TP53RK |
| 13 | 76,050,000 | 76,200,000 | 1015 | 813 | -0.382392804 | SLC13A3,SLC2A10,TP53RK |
| 13 | 76,125,000 | 76,275,000 | 1016 | 663 | -0.064677926 | |
| 13 | 76,200,000 | 76,350,000 | 1017 | 757 | -0.590671294 | EYA2 |
| 13 | 76,275,000 | 76,425,000 | 1018 | 936 | 0.42008445 | EYA2 |
| 13 | 76,350,000 | 76,500,000 | 1019 | 1305 | 0.615683196 | EYA2 |
| 13 | 76,425,000 | 76,575,000 | 1020 | 1235 | -0.234306567 | EYA2,ZMYND8 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-----------------------------|
| 13 | 76,500,000 | 76,650,000 | 1021 | 905 | 0.279815537 | ZMYND8 |
| 13 | 76,575,000 | 76,725,000 | 1022 | 868 | 0.515739299 | ZMYND8 |
| 13 | 76,650,000 | 76,800,000 | 1023 | 678 | 0.323764969 | |
| 13 | 76,725,000 | 76,875,000 | 1024 | 598 | 0.036338385 | NCOA3 |
| 13 | 76,800,000 | 76,950,000 | 1025 | 666 | -0.542105846 | NCOA3,SULF2 |
| 13 | 76,875,000 | 77,025,000 | 1026 | 710 | -0.138732613 | NCOA3,SULF2 |
| 13 | 76,950,000 | 77,100,000 | 1027 | 918 | 0.484940009 | SULF2 |
| 13 | 77,025,000 | 77,175,000 | 1028 | 971 | 0.324329096 | |
| 13 | 77,100,000 | 77,250,000 | 1029 | 903 | 0.183300242 | |
| 13 | 77,175,000 | 77,325,000 | 1030 | 801 | -0.371149165 | |
| 13 | 77,250,000 | 77,400,000 | 1031 | 924 | 0.224837752 | |
| 13 | 77,325,000 | 77,475,000 | 1032 | 1341 | 1.105954563 | |
| 13 | 77,400,000 | 77,550,000 | 1033 | 1070 | 0.895840207 | |
| 13 | 77,475,000 | 77,625,000 | 1034 | 602 | -0.718415637 | PREX1 |
| 13 | 77,550,000 | 77,700,000 | 1035 | 900 | -0.034431825 | PREX1 |
| 13 | 77,625,000 | 77,775,000 | 1036 | 1004 | 0.332176263 | PREX1 |
| 13 | 77,700,000 | 77,850,000 | 1037 | 853 | -0.694869717 | ARFGEF2 |
| 13 | 77,775,000 | 77,925,000 | 1038 | 891 | -1.121592507 | ARFGEF2,CSE1L |
| 13 | 77,850,000 | 78,000,000 | 1039 | 845 | -0.388797499 | ARFGEF2,CSE1L,STAU1 |
| 13 | 77,925,000 | 78,075,000 | 1040 | 943 | -0.09515432 | CSE1L,DDX27,STAU1 |
| 13 | 78,000,000 | 78,150,000 | 1041 | 1216 | -0.174243376 | DDX27,STAU1,ZNF1 |
| 13 | 78,075,000 | 78,225,000 | 1042 | 1001 | -0.328273945 | KCNB1,ZNF1 |
| 13 | 78,150,000 | 78,300,000 | 1043 | 773 | -0.969605994 | KCNB1 |
| 13 | 78,225,000 | 78,375,000 | 1044 | 859 | 0.196581778 | KCNB1,PTGIS |
| 13 | 78,300,000 | 78,450,000 | 1045 | 1059 | 1.010644856 | KCNB1,PTGIS |
| 13 | 78,375,000 | 78,525,000 | 1046 | 1073 | 0.363897692 | B4GALT5 |
| 13 | 78,450,000 | 78,600,000 | 1047 | 1121 | -0.59666698 | B4GALT5 |
| 13 | 78,525,000 | 78,675,000 | 1048 | 1258 | -0.240787679 | SLC9A8 |
| 13 | 78,600,000 | 78,750,000 | 1049 | 977 | 0.357446834 | RNF114,SLC9A8,SPATA2 |
| 13 | 78,675,000 | 78,825,000 | 1050 | 723 | 0.678550483 | RNF114,SLC9A8,SNAI1,SPATA2 |
| 13 | 78,750,000 | 78,900,000 | 1051 | 690 | -1.529335147 | SNAI1,TMEM189,UBE2V1 |
| 13 | 78,825,000 | 78,975,000 | 1052 | 490 | -1.547829172 | TMEM189,UBE2V1 |
| 13 | 78,900,000 | 79,050,000 | 1053 | 510 | 1.318598215 | TMEM189 |
| 13 | 78,975,000 | 79,125,000 | 1054 | 702 | 1.354434849 | |
| 13 | 79,050,000 | 79,200,000 | 1055 | 505 | 1.115052982 | |
| 13 | 79,125,000 | 79,275,000 | 1056 | 552 | 0.880750239 | PTPN1 |
| 13 | 79,200,000 | 79,350,000 | 1057 | 479 | 0.57916542 | FAM65C,PTPN1 |
| 13 | 79,275,000 | 79,425,000 | 1058 | 489 | -0.030063911 | FAM65C,PTPN1 |
| 13 | 79,350,000 | 79,500,000 | 1059 | 919 | 0.486515698 | BCAS4,FAM65C,PARD6B |
| 13 | 79,425,000 | 79,575,000 | 1060 | 877 | 0.938659219 | ADNP,BCAS4,PARD6B |
| 13 | 79,500,000 | 79,650,000 | 1061 | 733 | 0.011440478 | ADNP,BCAS4,DPM1,KCNG1,MOCS3 |
| 13 | 79,575,000 | 79,725,000 | 1062 | 1072 | -0.640035107 | DPM1,KCNG1,MOCS3 |
| 13 | 79,650,000 | 79,800,000 | 1063 | 1865 | 0.397182133 | KCNG1 |
| 13 | 79,725,000 | 79,875,000 | 1064 | 2008 | 0.022305967 | |
| 13 | 79,800,000 | 79,950,000 | 1065 | 1544 | -0.051533348 | |
| 13 | 79,875,000 | 80,025,000 | 1066 | 1386 | 0.67445747 | NFATC2 |
| 13 | 79,950,000 | 80,100,000 | 1067 | 1099 | 0.587406696 | NFATC2 |
| 13 | 80,025,000 | 80,175,000 | 1068 | 904 | -1.360623755 | ATP9A,NFATC2 |
| 13 | 80,100,000 | 80,250,000 | 1069 | 1264 | -1.469482554 | ATP9A,NFATC2 |
| 13 | 80,175,000 | 80,325,000 | 1070 | 1201 | -0.341421195 | ATP9A,SALL4 |
| 13 | 80,250,000 | 80,400,000 | 1071 | 919 | 0.672611798 | ATP9A,SALL4 |
| 13 | 80,325,000 | 80,475,000 | 1072 | 1149 | 0.747770654 | ENSBTAG00000030564 |
| 13 | 80,400,000 | 80,550,000 | 1073 | 1503 | 0.916508138 | ENSBTAG00000030564 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--------------------|
| 13 | 80,475,000 | 80,625,000 | 1074 | 1622 | 0.806349654 | ZFP64 |
| 13 | 80,550,000 | 80,700,000 | 1075 | 1482 | -0.051561779 | ZFP64 |
| 13 | 80,625,000 | 80,775,000 | 1076 | 1477 | -0.11976464 | |
| 13 | 80,700,000 | 80,850,000 | 1077 | 1289 | 0.30551439 | |
| 13 | 80,775,000 | 80,925,000 | 1078 | 874 | 0.183837431 | |
| 13 | 80,850,000 | 81,000,000 | 1079 | 1048 | 0.211326938 | |
| 13 | 80,925,000 | 81,075,000 | 1080 | 1152 | 0.296716777 | |
| 13 | 81,000,000 | 81,150,000 | 1081 | 1073 | 0.223088173 | |
| 13 | 81,075,000 | 81,225,000 | 1082 | 1040 | -0.577272761 | |
| 13 | 81,150,000 | 81,300,000 | 1083 | 818 | -0.657547075 | |
| 13 | 81,225,000 | 81,375,000 | 1084 | 854 | 0.090391413 | |
| 13 | 81,300,000 | 81,450,000 | 1085 | 1121 | -0.156488315 | |
| 13 | 81,375,000 | 81,525,000 | 1086 | 1046 | -0.005830458 | |
| 13 | 81,450,000 | 81,600,000 | 1087 | 825 | -0.221179546 | |
| 13 | 81,525,000 | 81,675,000 | 1088 | 699 | -0.405959507 | TSHZ2 |
| 13 | 81,600,000 | 81,750,000 | 1089 | 539 | 0.039719029 | TSHZ2 |
| 13 | 81,675,000 | 81,825,000 | 1090 | 597 | -0.647461038 | |
| 13 | 81,750,000 | 81,900,000 | 1091 | 574 | -0.047800197 | ZNF217 |
| 13 | 81,825,000 | 81,975,000 | 1092 | 542 | 0.311653274 | ZNF217 |
| 13 | 81,900,000 | 82,050,000 | 1093 | 572 | 0.497063179 | |
| 13 | 81,975,000 | 82,125,000 | 1094 | 685 | 0.350701545 | |
| 13 | 82,050,000 | 82,200,000 | 1095 | 793 | -0.471216054 | BCAS1 |
| 13 | 82,125,000 | 82,275,000 | 1096 | 765 | -0.57168133 | BCAS1 |
| 13 | 82,200,000 | 82,350,000 | 1097 | 694 | -0.217205019 | BCAS1 |
| 13 | 82,275,000 | 82,425,000 | 1098 | 790 | 0.136882167 | CYP24A1,PFDN4 |
| 13 | 82,350,000 | 82,500,000 | 1099 | 1131 | 0.240451531 | CYP24A1,PFDN4 |
| 13 | 82,425,000 | 82,575,000 | 1100 | 1197 | -0.327359259 | |
| 13 | 82,500,000 | 82,650,000 | 1101 | 825 | -1.317679373 | |
| 13 | 82,575,000 | 82,725,000 | 1102 | 690 | -0.503448971 | DOK5 |
| 13 | 82,650,000 | 82,800,000 | 1103 | 1066 | 0.26314474 | DOK5 |
| 13 | 82,725,000 | 82,875,000 | 1104 | 1412 | -0.261843808 | DOK5 |
| 13 | 82,800,000 | 82,950,000 | 1105 | 1144 | -0.478924543 | DOK5 |
| 13 | 82,875,000 | 83,025,000 | 1106 | 965 | -0.204278182 | |
| 13 | 82,950,000 | 83,100,000 | 1107 | 1088 | -0.927141007 | |
| 13 | 83,025,000 | 83,175,000 | 1108 | 1587 | -0.904200582 | |
| 13 | 83,100,000 | 83,250,000 | 1109 | 1694 | 0.021746203 | |
| 13 | 83,175,000 | 83,325,000 | 1110 | 1619 | 0.405391338 | |
| 13 | 83,250,000 | 83,400,000 | 1111 | 1932 | 0.511147208 | |
| 13 | 83,325,000 | 83,475,000 | 1112 | 1400 | 0.662179406 | |
| 13 | 83,400,000 | 83,550,000 | 1113 | 972 | 0.519303649 | |
| 13 | 83,475,000 | 83,625,000 | 1114 | 1412 | 0.66130323 | |
| 13 | 83,550,000 | 83,700,000 | 1115 | 1395 | 0.090347845 | |
| 13 | 83,625,000 | 83,775,000 | 1116 | 1123 | -0.38947039 | |
| 13 | 83,700,000 | 83,850,000 | 1117 | 1105 | -0.073523366 | |
| 13 | 83,775,000 | 83,925,000 | 1118 | 1225 | -0.309634803 | |
| 13 | 83,850,000 | 84,000,000 | 1119 | 1262 | 0.055645593 | |
| 13 | 83,925,000 | 84,075,000 | 1120 | 940 | 0.823138379 | CBLN4 |
| 13 | 84,000,000 | 84,150,000 | 1121 | 676 | 0.715974293 | CBLN4 |
| 13 | 84,075,000 | 84,225,000 | 1122 | 467 | -0.018374087 | |
| 13 | 84,150,000 | 84,240,350 | 1123 | 249 | 0.036855626 | ENSBTAG00000038057 |
| 14 | 0 | 150,000 | 1 | 137 | -1.113913893 | |
| 14 | 75,000 | 225,000 | 2 | 148 | -2.91485836 | |
| 14 | 150,000 | 300,000 | 3 | 90 | -3.96536783 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 14 | 225,000 | 375,000 | 4 | 156 | -0.406408961 | ENSBTAG00000034261 |
| 14 | 300,000 | 450,000 | 5 | 120 | -1.593046816 | ENSBTAG00000034261 |
| 14 | 375,000 | 525,000 | 6 | 62 | -2.212292455 | |
| 14 | 450,000 | 600,000 | 7 | 257 | -1.75018645 | |
| 14 | 525,000 | 675,000 | 8 | 354 | -2.438201685 | |
| 14 | 600,000 | 750,000 | 9 | 251 | -3.168823793 | ENSBTAG00000034176 |
| 14 | 675,000 | 825,000 | 10 | 111 | -3.456813073 | ENSBTAG00000034176 |
| 14 | 750,000 | 900,000 | 11 | 60 | -3.510898126 | |
| 14 | 825,000 | 975,000 | 12 | 109 | -2.711378773 | |
| 14 | 900,000 | 1,050,000 | 13 | 66 | -1.522402188 | |
| 14 | 975,000 | 1,125,000 | 14 | 111 | -0.931432575 | |
| 14 | 1,050,000 | 1,200,000 | 15 | 318 | 0.100079292 | ENSBTAG00000036098,ENSBTAG00000048001 |
| 14 | 1,125,000 | 1,275,000 | 16 | 542 | 0.79940529 | TMEM60,ENSBTAG00000036098,ENSBTAG00000048001 |
| 14 | 1,200,000 | 1,350,000 | 17 | 846 | 0.698307184 | TMEM60,ENSBTAG00000046435,ENSBTAG00000046932 |
| 14 | 1,275,000 | 1,425,000 | 18 | 923 | 0.527010591 | ENSBTAG00000046435,ENSBTAG00000046932 |
| 14 | 1,350,000 | 1,500,000 | 19 | 820 | -1.010622109 | C8orf33,ZNF34,ENSBTAG00000016203 |
| 14 | 1,425,000 | 1,575,000 | 20 | 567 | -2.350169065 | ARHGAP39,C8orf33,COMMD5,RPL8,ZNF34,ZNF7,ENSBTAG00000016203 |
| 14 | 1,500,000 | 1,650,000 | 21 | 245 | 0.28235136 | ARHGAP39,C14H8orf82,COMMD5,GPT,LRRRC14,LRRRC24,MFSD3,PPP1R16A,RECQL4,RPL8,ZNF34,ZNF7 |
| 14 | 1,575,000 | 1,725,000 | 22 | 216 | 0.829964646 | ARHGAP39,C14H8orf82,CYHR1,FOXH1,GPT,KIFC2,LRRC14,LRRRC24,MFSD3,PPP1R16A,RECQL4,SLC39A4,TONSL,VPS28 |
| 14 | 1,650,000 | 1,800,000 | 23 | 221 | 0.893977647 | ADCK5,CPSF1,CYHR1,DGAT1,FBXL6,FOXH1,GPR172B,KIFC2,SCRT1,SLC39A4,TMEM249,TONSL,VPS28 |
| 14 | 1,725,000 | 1,875,000 | 24 | 284 | 1.073251774 | ADCK5,BOP1,CPSF1,DGAT1,FBXL6,GPR172B,HSF1,MROH1,SCRT1,SCX,TMEM249 |
| 14 | 1,800,000 | 1,950,000 | 25 | 400 | 1.196700464 | BOP1,CYC1,DGAT1,EXOSC4,GPAA1,HGH1,HSF1,KIAA1875,MAF1,MROH1,SCX,SHARPIN,ENSBTAG00000039978 |
| 14 | 1,875,000 | 2,025,000 | 26 | 472 | 1.114347931 | CYC1,EXOSC4,GPAA1,GRINA,HGH1,KIAA1875,MAF1,MROH1,OPLAH,PARP10,SHARPIN,SPATC1,ENSBTAG0000015040,ENSBTAG00000039978 |
| 14 | 1,950,000 | 2,100,000 | 27 | 337 | 0.755708169 | GRINA,OPLAH,PARP10,PLEC,SPATC1,ENSBTAG00000015040 |
| 14 | 2,025,000 | 2,175,000 | 28 | 294 | 0.053542455 | NRBP2,PARP10,PLEC,PUF60 |
| 14 | 2,100,000 | 2,250,000 | 29 | 338 | -1.421889815 | FAM83H,MAPK15,NRBP2,PUF60,SCRIB |
| 14 | 2,175,000 | 2,325,000 | 30 | 232 | -3.212963577 | CCDC166,EEF1D,FAM83H,MAPK15,PUF60,PYCRL,SCRIB,TIGD5,TSTA3,ZNF623,ENSBTAG00000046866 |
| 14 | 2,250,000 | 2,400,000 | 31 | 280 | -4.473609375 | CCDC166,EEF1D,GSDMD,MROH6,NAPRT,PYCRL,TIGD5,TSTA3,ZC3H3,ZNF623,ENSBTAG00000046866 |
| 14 | 2,325,000 | 2,475,000 | 32 | 423 | -1.234587768 | EEF1D,GSDMD,MAFA,MROH6,NAPRT,RHPN1,ZC3H3 |
| 14 | 2,400,000 | 2,550,000 | 33 | 563 | 0.015362144 | MAFA,RHPN1,ZC3H3,ZNF16 |
| 14 | 2,475,000 | 2,625,000 | 34 | 680 | -0.784686583 | LY6E,LY6H,ZNF16 |
| 14 | 2,550,000 | 2,700,000 | 35 | 815 | -1.135076549 | LY6E,LY6H |
| 14 | 2,625,000 | 2,775,000 | 36 | 1149 | 0.123241242 | GML,LY6E,LY6K,ENSBTAG00000004596,ENSBTAG0000037824 |
| 14 | 2,700,000 | 2,850,000 | 37 | 1202 | 0.859864942 | GML,LY6D,LY6K,LYNX1,LYPD2,SLURP1,THEM6,ENSBTAG00000004596,ENSBTAG00000037824 |
| 14 | 2,775,000 | 2,925,000 | 38 | 902 | 1.19638756 | ARC,LY6D,LYNX1,LYPD2,PSCA,SLURP1,THEM6,ENSBTAG00000026340,ENSBTAG00000037824 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---------------------------------------|
| 14 | 2,850,000 | 3,000,000 | 39 | 709 | 0.794887541 | ARC,BAI1,PSCA,ENSBTAG00000026340 |
| 14 | 2,925,000 | 3,075,000 | 40 | 553 | -0.658915235 | BAI1,TSNARE1,ENSBTAG00000026340 |
| 14 | 3,000,000 | 3,150,000 | 41 | 476 | -0.146885533 | BAI1,TSNARE1 |
| 14 | 3,075,000 | 3,225,000 | 42 | 524 | 0.230395017 | TSNARE1 |
| 14 | 3,150,000 | 3,300,000 | 43 | 649 | -0.356586933 | TSNARE1 |
| 14 | 3,225,000 | 3,375,000 | 44 | 640 | -0.635687922 | |
| 14 | 3,300,000 | 3,450,000 | 45 | 795 | -0.231095118 | |
| 14 | 3,375,000 | 3,525,000 | 46 | 974 | -2.4652134 | |
| 14 | 3,450,000 | 3,600,000 | 47 | 769 | -3.69078901 | MROH5,PTP4A3 |
| 14 | 3,525,000 | 3,675,000 | 48 | 722 | 0.279972415 | GPR20,MROH5,PTP4A3 |
| 14 | 3,600,000 | 3,750,000 | 49 | 621 | 0.34607894 | GPR20,SLC45A4 |
| 14 | 3,675,000 | 3,825,000 | 50 | 517 | 0.689327838 | DENND3,SLC45A4 |
| 14 | 3,750,000 | 3,900,000 | 51 | 721 | 0.403903342 | DENND3,PTK2 |
| 14 | 3,825,000 | 3,975,000 | 52 | 729 | -0.002342984 | PTK2 |
| 14 | 3,900,000 | 4,050,000 | 53 | 643 | 0.196082071 | PTK2 |
| 14 | 3,975,000 | 4,125,000 | 54 | 691 | -0.784496179 | EIF2C2,PTK2 |
| 14 | 4,050,000 | 4,200,000 | 55 | 646 | -1.272538646 | CHRAC1,EIF2C2,PTK2 |
| 14 | 4,125,000 | 4,275,000 | 56 | 876 | 0.606086179 | CHRAC1,EIF2C2,TRAPPC9 |
| 14 | 4,200,000 | 4,350,000 | 57 | 1242 | 1.1659166 | TRAPPC9 |
| 14 | 4,275,000 | 4,425,000 | 58 | 1313 | 1.010013932 | TRAPPC9 |
| 14 | 4,350,000 | 4,500,000 | 59 | 1328 | 0.286693655 | TRAPPC9 |
| 14 | 4,425,000 | 4,575,000 | 60 | 1178 | -0.051786045 | TRAPPC9 |
| 14 | 4,500,000 | 4,650,000 | 61 | 797 | -0.747169068 | KCNK9,TRAPPC9 |
| 14 | 4,575,000 | 4,725,000 | 62 | 776 | -2.574485843 | KCNK9,TRAPPC9 |
| 14 | 4,650,000 | 4,800,000 | 63 | 933 | -1.209904114 | KCNK9 |
| 14 | 4,725,000 | 4,875,000 | 64 | 857 | 0.407114636 | KCNK9 |
| 14 | 4,800,000 | 4,950,000 | 65 | 803 | 0.08070939 | |
| 14 | 4,875,000 | 5,025,000 | 66 | 1165 | -0.474674876 | |
| 14 | 4,950,000 | 5,100,000 | 67 | 1495 | -0.622481076 | |
| 14 | 5,025,000 | 5,175,000 | 68 | 1163 | 0.082840586 | COL22A1 |
| 14 | 5,100,000 | 5,250,000 | 69 | 1059 | 0.326725248 | COL22A1 |
| 14 | 5,175,000 | 5,325,000 | 70 | 1561 | -0.499190213 | COL22A1 |
| 14 | 5,250,000 | 5,400,000 | 71 | 1641 | 0.287221862 | COL22A1 |
| 14 | 5,325,000 | 5,475,000 | 72 | 1251 | 1.108451237 | COL22A1,ENSBTAG00000018218 |
| 14 | 5,400,000 | 5,550,000 | 73 | 1237 | 0.801074806 | ENSBTAG00000018218 |
| 14 | 5,475,000 | 5,625,000 | 74 | 1387 | 0.176761709 | ENSBTAG00000018218 |
| 14 | 5,550,000 | 5,700,000 | 75 | 1486 | -0.108427119 | ENSBTAG00000018218,ENSBTAG00000048078 |
| 14 | 5,625,000 | 5,775,000 | 76 | 1441 | 0.021520016 | ENSBTAG00000018218,ENSBTAG00000048078 |
| 14 | 5,700,000 | 5,850,000 | 77 | 1188 | -0.718368694 | |
| 14 | 5,775,000 | 5,925,000 | 78 | 867 | -2.264160428 | |
| 14 | 5,850,000 | 6,000,000 | 79 | 954 | -1.555956487 | |
| 14 | 5,925,000 | 6,075,000 | 80 | 1162 | -0.851162721 | |
| 14 | 6,000,000 | 6,150,000 | 81 | 1402 | -0.210879661 | |
| 14 | 6,075,000 | 6,225,000 | 82 | 1207 | 0.171714503 | |
| 14 | 6,150,000 | 6,300,000 | 83 | 1106 | 0.453191113 | |
| 14 | 6,225,000 | 6,375,000 | 84 | 1188 | 0.270755122 | |
| 14 | 6,300,000 | 6,450,000 | 85 | 927 | 0.638200709 | |
| 14 | 6,375,000 | 6,525,000 | 86 | 1103 | 1.186281212 | |
| 14 | 6,450,000 | 6,600,000 | 87 | 1140 | 0.948672835 | |
| 14 | 6,525,000 | 6,675,000 | 88 | 1247 | -0.034675304 | |
| 14 | 6,600,000 | 6,750,000 | 89 | 1266 | -0.126299323 | |
| 14 | 6,675,000 | 6,825,000 | 90 | 1273 | -0.438918366 | |
| 14 | 6,750,000 | 6,900,000 | 91 | 1409 | 0.100041596 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 14 | 6,825,000 | 6,975,000 | 92 | 1120 | 0.658131186 | |
| 14 | 6,900,000 | 7,050,000 | 93 | 824 | 0.024175092 | |
| 14 | 6,975,000 | 7,125,000 | 94 | 1145 | -0.96740181 | |
| 14 | 7,050,000 | 7,200,000 | 95 | 1524 | -0.193089576 | |
| 14 | 7,125,000 | 7,275,000 | 96 | 1300 | 0.45528201 | |
| 14 | 7,200,000 | 7,350,000 | 97 | 1008 | 0.249357514 | |
| 14 | 7,275,000 | 7,425,000 | 98 | 918 | 0.419759622 | |
| 14 | 7,350,000 | 7,500,000 | 99 | 718 | 0.613647251 | KHDRBS3 |
| 14 | 7,425,000 | 7,575,000 | 100 | 479 | 0.164499895 | KHDRBS3 |
| 14 | 7,500,000 | 7,650,000 | 101 | 691 | 0.563705793 | KHDRBS3 |
| 14 | 7,575,000 | 7,725,000 | 102 | 758 | 0.619796739 | KHDRBS3 |
| 14 | 7,650,000 | 7,800,000 | 103 | 492 | -0.352402241 | |
| 14 | 7,725,000 | 7,875,000 | 104 | 977 | 0.182282966 | |
| 14 | 7,800,000 | 7,950,000 | 105 | 1499 | 0.51930675 | |
| 14 | 7,875,000 | 8,025,000 | 106 | 1292 | 0.243701959 | |
| 14 | 7,950,000 | 8,100,000 | 107 | 747 | -0.278438278 | |
| 14 | 8,025,000 | 8,175,000 | 108 | 556 | -0.5456161 | ZFAT |
| 14 | 8,100,000 | 8,250,000 | 109 | 710 | -0.23815501 | ZFAT |
| 14 | 8,175,000 | 8,325,000 | 110 | 839 | 0.905602518 | ZFAT |
| 14 | 8,250,000 | 8,400,000 | 111 | 829 | 1.104376982 | ZFAT |
| 14 | 8,325,000 | 8,475,000 | 112 | 799 | -1.071499469 | |
| 14 | 8,400,000 | 8,550,000 | 113 | 747 | -1.760926162 | |
| 14 | 8,475,000 | 8,625,000 | 114 | 698 | -0.469521074 | |
| 14 | 8,550,000 | 8,700,000 | 115 | 648 | 0.063104418 | |
| 14 | 8,625,000 | 8,775,000 | 116 | 362 | 0.191958356 | |
| 14 | 8,700,000 | 8,850,000 | 117 | 691 | -1.637241928 | |
| 14 | 8,775,000 | 8,925,000 | 118 | 852 | -0.667320356 | |
| 14 | 8,850,000 | 9,000,000 | 119 | 1054 | 0.298135269 | ST3GAL1 |
| 14 | 8,925,000 | 9,075,000 | 120 | 1292 | -0.680523488 | ST3GAL1 |
| 14 | 9,000,000 | 9,150,000 | 121 | 979 | -1.075314758 | NDRG1 |
| 14 | 9,075,000 | 9,225,000 | 122 | 714 | -0.421089598 | NDRG1,WISP1 |
| 14 | 9,150,000 | 9,300,000 | 123 | 721 | 0.175936653 | NDRG1,TG,WISP1 |
| 14 | 9,225,000 | 9,375,000 | 124 | 989 | 0.378210631 | SLA,TG |
| 14 | 9,300,000 | 9,450,000 | 125 | 661 | 0.137187784 | SLA,TG |
| 14 | 9,375,000 | 9,525,000 | 126 | 506 | -0.480657195 | TG |
| 14 | 9,450,000 | 9,600,000 | 127 | 652 | -0.372518723 | PHF20L1,TG |
| 14 | 9,525,000 | 9,675,000 | 128 | 817 | -0.851079916 | LRRC6,PHF20L1,TMEM71 |
| 14 | 9,600,000 | 9,750,000 | 129 | 982 | -2.176783394 | LRRC6,TMEM71 |
| 14 | 9,675,000 | 9,825,000 | 130 | 1095 | -1.15582627 | KCNQ3,LRRC6 |
| 14 | 9,750,000 | 9,900,000 | 131 | 1295 | 0.854978944 | KCNQ3 |
| 14 | 9,825,000 | 9,975,000 | 132 | 1058 | 0.621231265 | KCNQ3 |
| 14 | 9,900,000 | 10,050,000 | 133 | 752 | 0.330971306 | KCNQ3 |
| 14 | 9,975,000 | 10,125,000 | 134 | 584 | 0.343790955 | HHLA1,KCNQ3 |
| 14 | 10,050,000 | 10,200,000 | 135 | 663 | -0.372118359 | EFR3A,HHLA1,KCNQ3,ENSBTAG00000007731,ENSBTAG00000007736 |
| 14 | 10,125,000 | 10,275,000 | 136 | 813 | -0.163136815 | EFR3A,HHLA1,ENSBTAG00000007731,ENSBTAG0000007736 |
| 14 | 10,200,000 | 10,350,000 | 137 | 960 | 0.91826494 | EFR3A,ENSBTAG00000007731 |
| 14 | 10,275,000 | 10,425,000 | 138 | 1169 | 0.467596955 | |
| 14 | 10,350,000 | 10,500,000 | 139 | 1292 | 0.252390494 | |
| 14 | 10,425,000 | 10,575,000 | 140 | 1321 | 0.809627882 | |
| 14 | 10,500,000 | 10,650,000 | 141 | 1070 | 0.888234037 | |
| 14 | 10,575,000 | 10,725,000 | 142 | 938 | 0.915268883 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------|
| 14 | 10,650,000 | 10,800,000 | 143 | 953 | 0.766339898 | |
| 14 | 10,725,000 | 10,875,000 | 144 | 933 | 0.891676251 | ADCY8 |
| 14 | 10,800,000 | 10,950,000 | 145 | 951 | 0.728702448 | ADCY8 |
| 14 | 10,875,000 | 11,025,000 | 146 | 1021 | 0.951639292 | ADCY8 |
| 14 | 10,950,000 | 11,100,000 | 147 | 742 | 1.064295011 | ADCY8 |
| 14 | 11,025,000 | 11,175,000 | 148 | 388 | 0.571796856 | ADCY8 |
| 14 | 11,100,000 | 11,250,000 | 149 | 557 | 1.030912747 | |
| 14 | 11,175,000 | 11,325,000 | 150 | 603 | 0.29628569 | |
| 14 | 11,250,000 | 11,400,000 | 151 | 888 | -0.089007285 | ASAP1 |
| 14 | 11,325,000 | 11,475,000 | 152 | 1113 | -0.685909954 | ASAP1 |
| 14 | 11,400,000 | 11,550,000 | 153 | 1152 | -1.373768016 | ASAP1 |
| 14 | 11,475,000 | 11,625,000 | 154 | 1286 | -2.902815401 | ASAP1 |
| 14 | 11,550,000 | 11,700,000 | 155 | 1514 | -3.247339046 | ASAP1 |
| 14 | 11,625,000 | 11,775,000 | 156 | 1484 | -2.604402913 | ASAP1 |
| 14 | 11,700,000 | 11,850,000 | 157 | 947 | -1.504261399 | FAM49B |
| 14 | 11,775,000 | 11,925,000 | 158 | 857 | -2.366677365 | FAM49B,GSDMC |
| 14 | 11,850,000 | 12,000,000 | 159 | 1136 | -1.828153784 | FAM49B,GSDMC |
| 14 | 11,925,000 | 12,075,000 | 160 | 1380 | -1.777830906 | |
| 14 | 12,000,000 | 12,150,000 | 161 | 1135 | -2.041699172 | |
| 14 | 12,075,000 | 12,225,000 | 162 | 1063 | 0.23380116 | |
| 14 | 12,150,000 | 12,300,000 | 163 | 1301 | 0.729840991 | |
| 14 | 12,225,000 | 12,375,000 | 164 | 1227 | -0.849908961 | |
| 14 | 12,300,000 | 12,450,000 | 165 | 1099 | -0.575727442 | |
| 14 | 12,375,000 | 12,525,000 | 166 | 1155 | 0.592389682 | |
| 14 | 12,450,000 | 12,600,000 | 167 | 1230 | 0.136216959 | |
| 14 | 12,525,000 | 12,675,000 | 168 | 1119 | 0.073382015 | |
| 14 | 12,600,000 | 12,750,000 | 169 | 1166 | -0.343194152 | |
| 14 | 12,675,000 | 12,825,000 | 170 | 1266 | 0.004473136 | |
| 14 | 12,750,000 | 12,900,000 | 171 | 967 | 0.494924271 | |
| 14 | 12,825,000 | 12,975,000 | 172 | 759 | 0.824884317 | |
| 14 | 12,900,000 | 13,050,000 | 173 | 989 | 1.067458916 | |
| 14 | 12,975,000 | 13,125,000 | 174 | 1025 | 1.044551496 | |
| 14 | 13,050,000 | 13,200,000 | 175 | 1006 | 0.116233521 | |
| 14 | 13,125,000 | 13,275,000 | 176 | 1027 | -0.246197915 | |
| 14 | 13,200,000 | 13,350,000 | 177 | 705 | -0.059235873 | |
| 14 | 13,275,000 | 13,425,000 | 178 | 539 | -0.374191892 | |
| 14 | 13,350,000 | 13,500,000 | 179 | 936 | 0.567414028 | |
| 14 | 13,425,000 | 13,575,000 | 180 | 1182 | 1.226078383 | |
| 14 | 13,500,000 | 13,650,000 | 181 | 848 | 1.35806042 | |
| 14 | 13,575,000 | 13,725,000 | 182 | 535 | 1.15554897 | |
| 14 | 13,650,000 | 13,800,000 | 183 | 446 | 0.003170623 | MYC |
| 14 | 13,725,000 | 13,875,000 | 184 | 797 | -0.709554622 | MYC |
| 14 | 13,800,000 | 13,950,000 | 185 | 1238 | -0.075131258 | |
| 14 | 13,875,000 | 14,025,000 | 186 | 1092 | 0.39911995 | |
| 14 | 13,950,000 | 14,100,000 | 187 | 956 | 0.630463961 | |
| 14 | 14,025,000 | 14,175,000 | 188 | 916 | 0.434575317 | |
| 14 | 14,100,000 | 14,250,000 | 189 | 811 | -1.861427043 | |
| 14 | 14,175,000 | 14,325,000 | 190 | 745 | -0.854144168 | |
| 14 | 14,250,000 | 14,400,000 | 191 | 758 | 0.78152213 | |
| 14 | 14,325,000 | 14,475,000 | 192 | 761 | 0.124274366 | |
| 14 | 14,400,000 | 14,550,000 | 193 | 444 | -0.782665204 | |
| 14 | 14,475,000 | 14,625,000 | 194 | 199 | -0.271711807 | |
| 14 | 14,550,000 | 14,700,000 | 195 | 229 | -0.523709071 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 14 | 14,625,000 | 14,775,000 | 196 | 400 | 0.263808354 | |
| 14 | 14,700,000 | 14,850,000 | 197 | 316 | 0.716187291 | |
| 14 | 14,775,000 | 14,925,000 | 198 | 251 | 0.22235936 | |
| 14 | 14,850,000 | 15,000,000 | 199 | 545 | -0.646897969 | |
| 14 | 14,925,000 | 15,075,000 | 200 | 643 | -0.089360742 | |
| 14 | 15,000,000 | 15,150,000 | 201 | 450 | 0.151409519 | |
| 14 | 15,075,000 | 15,225,000 | 202 | 243 | -0.430937847 | |
| 14 | 15,150,000 | 15,300,000 | 203 | 373 | 0.083586374 | |
| 14 | 15,225,000 | 15,375,000 | 204 | 438 | -0.132539326 | |
| 14 | 15,300,000 | 15,450,000 | 205 | 399 | -0.531730106 | |
| 14 | 15,375,000 | 15,525,000 | 206 | 717 | 0.105472709 | FAM84B |
| 14 | 15,450,000 | 15,600,000 | 207 | 1040 | 0.314677577 | FAM84B |
| 14 | 15,525,000 | 15,675,000 | 208 | 1158 | 0.084863077 | |
| 14 | 15,600,000 | 15,750,000 | 209 | 1218 | -0.045139796 | |
| 14 | 15,675,000 | 15,825,000 | 210 | 887 | -0.055263644 | |
| 14 | 15,750,000 | 15,900,000 | 211 | 589 | 0.327526328 | |
| 14 | 15,825,000 | 15,975,000 | 212 | 943 | -1.031032684 | |
| 14 | 15,900,000 | 16,050,000 | 213 | 1165 | -0.53444428 | |
| 14 | 15,975,000 | 16,125,000 | 214 | 1187 | 0.238879726 | |
| 14 | 16,050,000 | 16,200,000 | 215 | 1118 | 0.35398262 | |
| 14 | 16,125,000 | 16,275,000 | 216 | 853 | 0.868277272 | |
| 14 | 16,200,000 | 16,350,000 | 217 | 558 | 0.996815997 | |
| 14 | 16,275,000 | 16,425,000 | 218 | 419 | 0.732676219 | NSMCE2,TRIB1 |
| 14 | 16,350,000 | 16,500,000 | 219 | 419 | 0.551254976 | NSMCE2,TRIB1 |
| 14 | 16,425,000 | 16,575,000 | 220 | 356 | 0.0476823 | NSMCE2 |
| 14 | 16,500,000 | 16,650,000 | 221 | 291 | -0.276453973 | NSMCE2 |
| 14 | 16,575,000 | 16,725,000 | 222 | 388 | 0.364411042 | KIAA0196,NSMCE2,SQLE |
| 14 | 16,650,000 | 16,800,000 | 223 | 542 | 0.371886638 | KIAA0196,SQLE,ZNF572 |
| 14 | 16,725,000 | 16,875,000 | 224 | 770 | 0.266612625 | SQLE,ZNF572 |
| 14 | 16,800,000 | 16,950,000 | 225 | 966 | 0.27838896 | |
| 14 | 16,875,000 | 17,025,000 | 226 | 682 | 0.563839705 | MTSS1 |
| 14 | 16,950,000 | 17,100,000 | 227 | 485 | 1.2645467 | MTSS1 |
| 14 | 17,025,000 | 17,175,000 | 228 | 470 | 0.653786821 | MTSS1,NDUFB9,RNF139,TATDN1 |
| 14 | 17,100,000 | 17,250,000 | 229 | 592 | -0.049508645 | MTSS1,NDUFB9,RNF139,TATDN1,TRMT12,ENSBTAG0000010813 |
| 14 | 17,175,000 | 17,325,000 | 230 | 774 | -0.018573003 | RNF139,TMEM65,TRMT12,ENSBTAG00000010813 |
| 14 | 17,250,000 | 17,400,000 | 231 | 889 | 0.534823307 | TMEM65 |
| 14 | 17,325,000 | 17,475,000 | 232 | 1161 | 1.170244332 | FER1L6 |
| 14 | 17,400,000 | 17,550,000 | 233 | 1408 | 1.173287712 | FER1L6 |
| 14 | 17,475,000 | 17,625,000 | 234 | 1262 | 0.931588762 | FER1L6 |
| 14 | 17,550,000 | 17,700,000 | 235 | 1144 | 1.135833918 | FAM91A1,FER1L6 |
| 14 | 17,625,000 | 17,775,000 | 236 | 985 | 0.999913976 | ANXA13,FAM91A1,FER1L6 |
| 14 | 17,700,000 | 17,850,000 | 237 | 957 | 0.103330386 | ANXA13,FAM91A1,KLHL38 |
| 14 | 17,775,000 | 17,925,000 | 238 | 1222 | 0.164225091 | ANXA13,FBXO32,KLHL38 |
| 14 | 17,850,000 | 18,000,000 | 239 | 1220 | 0.555675782 | FBXO32 |
| 14 | 17,925,000 | 18,075,000 | 240 | 998 | 1.14454964 | ATAD2,FBXO32,WDYHV1 |
| 14 | 18,000,000 | 18,150,000 | 241 | 566 | 0.838887556 | ATAD2,WDYHV1,ZHX1 |
| 14 | 18,075,000 | 18,225,000 | 242 | 479 | 0.284091925 | ATAD2,FAM83A,TBC1D31,ZHX1,ENSBTAG00000015319 |
| 14 | 18,150,000 | 18,300,000 | 243 | 690 | 0.290025992 | FAM83A,TBC1D31,ENSBTAG00000015319 |
| 14 | 18,225,000 | 18,375,000 | 244 | 736 | 0.070287207 | DERL1,TBC1D31 |
| 14 | 18,300,000 | 18,450,000 | 245 | 948 | 0.497137129 | DERL1,ZHX2 |
| 14 | 18,375,000 | 18,525,000 | 246 | 1141 | 0.965551222 | ZHX2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 14 | 18,450,000 | 18,600,000 | 247 | 896 | 0.84612088 | |
| 14 | 18,525,000 | 18,675,000 | 248 | 727 | 0.120893582 | |
| 14 | 18,600,000 | 18,750,000 | 249 | 634 | -0.482748604 | |
| 14 | 18,675,000 | 18,825,000 | 250 | 461 | -0.646279583 | |
| 14 | 18,750,000 | 18,900,000 | 251 | 687 | -1.506287103 | |
| 14 | 18,825,000 | 18,975,000 | 252 | 869 | -1.687999175 | |
| 14 | 18,900,000 | 19,050,000 | 253 | 982 | -0.260003587 | |
| 14 | 18,975,000 | 19,125,000 | 254 | 1286 | 0.385303514 | |
| 14 | 19,050,000 | 19,200,000 | 255 | 1165 | 0.70504141 | |
| 14 | 19,125,000 | 19,275,000 | 256 | 1182 | 0.694136455 | |
| 14 | 19,200,000 | 19,350,000 | 257 | 1242 | 0.52770627 | |
| 14 | 19,275,000 | 19,425,000 | 258 | 862 | 0.526903293 | |
| 14 | 19,350,000 | 19,500,000 | 259 | 837 | -0.688999611 | |
| 14 | 19,425,000 | 19,575,000 | 260 | 979 | -1.173935044 | |
| 14 | 19,500,000 | 19,650,000 | 261 | 848 | -0.249180972 | |
| 14 | 19,575,000 | 19,725,000 | 262 | 525 | 0.540024166 | HAS2 |
| 14 | 19,650,000 | 19,800,000 | 263 | 1114 | 0.908850113 | HAS2 |
| 14 | 19,725,000 | 19,875,000 | 264 | 1238 | 0.301679545 | HAS2 |
| 14 | 19,800,000 | 19,950,000 | 265 | 630 | -1.306498053 | |
| 14 | 19,875,000 | 20,025,000 | 266 | 1027 | -0.114311997 | |
| 14 | 19,950,000 | 20,100,000 | 267 | 1205 | 0.282727911 | |
| 14 | 20,025,000 | 20,175,000 | 268 | 1073 | -0.309058607 | |
| 14 | 20,100,000 | 20,250,000 | 269 | 1182 | 0.337196444 | |
| 14 | 20,175,000 | 20,325,000 | 270 | 1421 | 0.906971345 | |
| 14 | 20,250,000 | 20,400,000 | 271 | 1469 | 0.3027272 | |
| 14 | 20,325,000 | 20,475,000 | 272 | 1225 | -0.019961532 | |
| 14 | 20,400,000 | 20,550,000 | 273 | 1239 | 0.779832221 | |
| 14 | 20,475,000 | 20,625,000 | 274 | 1298 | -0.642980221 | ENSBTAG00000009474 |
| 14 | 20,550,000 | 20,700,000 | 275 | 969 | -3.736367783 | ENSBTAG00000009474 |
| 14 | 20,625,000 | 20,775,000 | 276 | 562 | -3.520481329 | SPIDR,ENSBTAG00000040351 |
| 14 | 20,700,000 | 20,850,000 | 277 | 362 | 0.464902128 | SPIDR,ENSBTAG00000040351 |
| 14 | 20,775,000 | 20,925,000 | 278 | 428 | 0.583090155 | SPIDR |
| 14 | 20,850,000 | 21,000,000 | 279 | 653 | 0.34783518 | SPIDR |
| 14 | 20,925,000 | 21,075,000 | 280 | 1152 | 0.424910723 | H3F3C,PRKDC,SPIDR |
| 14 | 21,000,000 | 21,150,000 | 281 | 1370 | 0.669265124 | H3F3C,PRKDC |
| 14 | 21,075,000 | 21,225,000 | 282 | 1016 | 0.867127873 | PRKDC,ENSBTAG00000046325 |
| 14 | 21,150,000 | 21,300,000 | 283 | 684 | 0.32557119 | PRKDC,UBE2V2,ENSBTAG00000046325 |
| 14 | 21,225,000 | 21,375,000 | 284 | 473 | -0.741298372 | UBE2V2 |
| 14 | 21,300,000 | 21,450,000 | 285 | 353 | 0.894626207 | |
| 14 | 21,375,000 | 21,525,000 | 286 | 362 | 0.663399828 | EFCAB1 |
| 14 | 21,450,000 | 21,600,000 | 287 | 359 | 0.558786246 | EFCAB1,SNAI2 |
| 14 | 21,525,000 | 21,675,000 | 288 | 670 | 1.042227599 | C14H8orf22,SNAI2 |
| 14 | 21,600,000 | 21,750,000 | 289 | 805 | 1.006198509 | C14H8orf22 |
| 14 | 21,675,000 | 21,825,000 | 290 | 640 | -0.57398861 | |
| 14 | 21,750,000 | 21,900,000 | 291 | 726 | -1.60528825 | |
| 14 | 21,825,000 | 21,975,000 | 292 | 759 | -0.911133874 | |
| 14 | 21,900,000 | 22,050,000 | 293 | 613 | -0.275582619 | |
| 14 | 21,975,000 | 22,125,000 | 294 | 600 | -1.380700016 | |
| 14 | 22,050,000 | 22,200,000 | 295 | 837 | -4.300494755 | |
| 14 | 22,125,000 | 22,275,000 | 296 | 742 | -4.657189233 | SNTG1 |
| 14 | 22,200,000 | 22,350,000 | 297 | 1068 | 0.42802758 | SNTG1 |
| 14 | 22,275,000 | 22,425,000 | 298 | 1253 | 0.950775995 | SNTG1 |
| 14 | 22,350,000 | 22,500,000 | 299 | 762 | 0.521039532 | SNTG1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 14 | 22,425,000 | 22,575,000 | 300 | 494 | -0.078442845 | |
| 14 | 22,500,000 | 22,650,000 | 301 | 421 | -0.651982343 | |
| 14 | 22,575,000 | 22,725,000 | 302 | 347 | -0.731365361 | PCMTD1 |
| 14 | 22,650,000 | 22,800,000 | 303 | 405 | 0.444265702 | PCMTD1 |
| 14 | 22,725,000 | 22,875,000 | 304 | 671 | 0.598019767 | ST18 |
| 14 | 22,800,000 | 22,950,000 | 305 | 531 | 0.535508985 | ST18 |
| 14 | 22,875,000 | 23,025,000 | 306 | 525 | -0.622230539 | |
| 14 | 22,950,000 | 23,100,000 | 307 | 788 | -0.40090203 | ENSBTAG00000026306 |
| 14 | 23,025,000 | 23,175,000 | 308 | 775 | -0.186706046 | RB1CC1,ENSBTAG00000026306 |
| 14 | 23,100,000 | 23,250,000 | 309 | 569 | -0.55297777 | RB1CC1 |
| 14 | 23,175,000 | 23,325,000 | 310 | 532 | -1.39681671 | NPBWR1,RB1CC1 |
| 14 | 23,250,000 | 23,400,000 | 311 | 552 | -3.973744439 | NPBWR1,OPRK1 |
| 14 | 23,325,000 | 23,475,000 | 312 | 427 | -5.141761575 | OPRK1 |
| 14 | 23,400,000 | 23,550,000 | 313 | 363 | -3.6354438 | ATP6V1H |
| 14 | 23,475,000 | 23,625,000 | 314 | 321 | -3.172529902 | ATP6V1H,RGS20,TCEA1 |
| 14 | 23,550,000 | 23,700,000 | 315 | 291 | -0.761653375 | ATP6V1H,LYPLA1,MRPL15,RGS20,TCEA1 |
| 14 | 23,625,000 | 23,775,000 | 316 | 306 | -2.201517342 | LYPLA1,MRPL15,POLR2K,TCEA1,ENSBTAG00000033627 |
| 14 | 23,700,000 | 23,850,000 | 317 | 283 | -4.128904838 | POLR2K,ENSBTAG00000033627 |
| 14 | 23,775,000 | 23,925,000 | 318 | 274 | -2.073102254 | SOX17 |
| 14 | 23,850,000 | 24,000,000 | 319 | 616 | 0.89754815 | RP1,SOX17 |
| 14 | 23,925,000 | 24,075,000 | 320 | 864 | 0.171887617 | RP1,ENSBTAG00000047303 |
| 14 | 24,000,000 | 24,150,000 | 321 | 909 | -0.248291003 | ENSBTAG00000047303 |
| 14 | 24,075,000 | 24,225,000 | 322 | 967 | 0.377047927 | ENSBTAG00000047303 |
| 14 | 24,150,000 | 24,300,000 | 323 | 827 | 0.574579901 | XKR4 |
| 14 | 24,225,000 | 24,375,000 | 324 | 810 | 0.755708697 | XKR4 |
| 14 | 24,300,000 | 24,450,000 | 325 | 1135 | 0.602433366 | XKR4 |
| 14 | 24,375,000 | 24,525,000 | 326 | 1164 | 0.756935615 | XKR4 |
| 14 | 24,450,000 | 24,600,000 | 327 | 719 | 0.600734532 | XKR4 |
| 14 | 24,525,000 | 24,675,000 | 328 | 424 | -0.872940942 | XKR4 |
| 14 | 24,600,000 | 24,750,000 | 329 | 589 | 1.197705407 | TGS1,TMEM68,XKR4 |
| 14 | 24,675,000 | 24,825,000 | 330 | 594 | 1.529184572 | TGS1,TMEM68 |
| 14 | 24,750,000 | 24,900,000 | 331 | 411 | 1.364868236 | LYN,TGS1 |
| 14 | 24,825,000 | 24,975,000 | 332 | 464 | -0.248472043 | LYN,RPS20 |
| 14 | 24,900,000 | 25,050,000 | 333 | 368 | -0.813080505 | C-MOS,LYN,PLAG1,RPS20 |
| 14 | 24,975,000 | 25,125,000 | 334 | 263 | 0.816765297 | C-MOS,CHCHD7,PLAG1,SDR16C5,ENSBTAG00000039031 |
| 14 | 25,050,000 | 25,200,000 | 335 | 251 | 1.117034504 | CHCHD7,SDR16C5,SDR16C6,ENSBTAG00000039031 |
| 14 | 25,125,000 | 25,275,000 | 336 | 448 | 0.36883897 | PENK,SDR16C6 |
| 14 | 25,200,000 | 25,350,000 | 337 | 714 | -0.659029322 | PENK |
| 14 | 25,275,000 | 25,425,000 | 338 | 863 | -1.123311782 | |
| 14 | 25,350,000 | 25,500,000 | 339 | 1157 | -0.621448014 | |
| 14 | 25,425,000 | 25,575,000 | 340 | 1231 | -0.120911165 | IMPAD1 |
| 14 | 25,500,000 | 25,650,000 | 341 | 865 | -0.400925369 | IMPAD1 |
| 14 | 25,575,000 | 25,725,000 | 342 | 589 | -0.874000153 | |
| 14 | 25,650,000 | 25,800,000 | 343 | 665 | 0.334872014 | |
| 14 | 25,725,000 | 25,875,000 | 344 | 839 | 0.884194787 | |
| 14 | 25,800,000 | 25,950,000 | 345 | 986 | 1.118534338 | |
| 14 | 25,875,000 | 26,025,000 | 346 | 1240 | 0.872296519 | |
| 14 | 25,950,000 | 26,100,000 | 347 | 1324 | 0.57055292 | |
| 14 | 26,025,000 | 26,175,000 | 348 | 1217 | 0.472224056 | FAM110B |
| 14 | 26,100,000 | 26,250,000 | 349 | 1060 | 0.732065964 | FAM110B,RPL39 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 14 | 26,175,000 | 26,325,000 | 350 | 702 | 0.875416404 | RPL39,UBXN2B |
| 14 | 26,250,000 | 26,400,000 | 351 | 559 | 0.922889493 | CYP7A1,UBXN2B |
| 14 | 26,325,000 | 26,475,000 | 352 | 580 | 0.727093221 | CYP7A1,NSMAF,SDCBP |
| 14 | 26,400,000 | 26,550,000 | 353 | 690 | 0.429026754 | NSMAF,SDCBP |
| 14 | 26,475,000 | 26,625,000 | 354 | 858 | -0.638630857 | NSMAF |
| 14 | 26,550,000 | 26,700,000 | 355 | 600 | -0.971107999 | TOX |
| 14 | 26,625,000 | 26,775,000 | 356 | 363 | 1.152344702 | TOX |
| 14 | 26,700,000 | 26,850,000 | 357 | 317 | 1.359382376 | TOX |
| 14 | 26,775,000 | 26,925,000 | 358 | 328 | 1.128908182 | TOX |
| 14 | 26,850,000 | 27,000,000 | 359 | 548 | 1.069464537 | TOX |
| 14 | 26,925,000 | 27,075,000 | 360 | 664 | 0.896178782 | TOX |
| 14 | 27,000,000 | 27,150,000 | 361 | 700 | 0.54861195 | |
| 14 | 27,075,000 | 27,225,000 | 362 | 699 | 1.124666656 | |
| 14 | 27,150,000 | 27,300,000 | 363 | 634 | 0.675136551 | |
| 14 | 27,225,000 | 27,375,000 | 364 | 705 | -0.4702709 | |
| 14 | 27,300,000 | 27,450,000 | 365 | 864 | 0.54975786 | |
| 14 | 27,375,000 | 27,525,000 | 366 | 892 | 1.119633203 | |
| 14 | 27,450,000 | 27,600,000 | 367 | 941 | 0.606780202 | |
| 14 | 27,525,000 | 27,675,000 | 368 | 1108 | -0.972672865 | CA8 |
| 14 | 27,600,000 | 27,750,000 | 369 | 899 | -1.094285186 | CA8 |
| 14 | 27,675,000 | 27,825,000 | 370 | 805 | 0.389536972 | CA8 |
| 14 | 27,750,000 | 27,900,000 | 371 | 977 | 0.165556737 | RAB2A |
| 14 | 27,825,000 | 27,975,000 | 372 | 910 | 0.256585762 | RAB2A |
| 14 | 27,900,000 | 28,050,000 | 373 | 890 | 0.251929139 | CHD7,RAB2A |
| 14 | 27,975,000 | 28,125,000 | 374 | 1122 | -0.718632076 | CHD7 |
| 14 | 28,050,000 | 28,200,000 | 375 | 1006 | -0.913816507 | CHD7 |
| 14 | 28,125,000 | 28,275,000 | 376 | 569 | -0.087065292 | CHD7 |
| 14 | 28,200,000 | 28,350,000 | 377 | 484 | 0.041741587 | |
| 14 | 28,275,000 | 28,425,000 | 378 | 769 | -1.784501957 | |
| 14 | 28,350,000 | 28,500,000 | 379 | 1018 | -1.220309397 | |
| 14 | 28,425,000 | 28,575,000 | 380 | 1027 | 0.580317807 | CLVS1 |
| 14 | 28,500,000 | 28,650,000 | 381 | 1257 | 0.59889846 | CLVS1 |
| 14 | 28,575,000 | 28,725,000 | 382 | 1036 | 0.191206881 | ASPH |
| 14 | 28,650,000 | 28,800,000 | 383 | 570 | 0.173926042 | ASPH |
| 14 | 28,725,000 | 28,875,000 | 384 | 700 | 0.737721851 | ASPH |
| 14 | 28,800,000 | 28,950,000 | 385 | 1017 | -0.16446083 | ASPH |
| 14 | 28,875,000 | 29,025,000 | 386 | 1302 | 0.28441956 | ASPH |
| 14 | 28,950,000 | 29,100,000 | 387 | 1245 | 0.883161255 | |
| 14 | 29,025,000 | 29,175,000 | 388 | 860 | 0.627525358 | |
| 14 | 29,100,000 | 29,250,000 | 389 | 671 | -0.956867743 | |
| 14 | 29,175,000 | 29,325,000 | 390 | 947 | -2.20210769 | |
| 14 | 29,250,000 | 29,400,000 | 391 | 904 | -1.3268434 | |
| 14 | 29,325,000 | 29,475,000 | 392 | 735 | 0.781292358 | |
| 14 | 29,400,000 | 29,550,000 | 393 | 1153 | 1.042238085 | |
| 14 | 29,475,000 | 29,625,000 | 394 | 1204 | 0.937807044 | |
| 14 | 29,550,000 | 29,700,000 | 395 | 1129 | 0.092754134 | |
| 14 | 29,625,000 | 29,775,000 | 396 | 1083 | 0.274764446 | GGH,TTPA |
| 14 | 29,700,000 | 29,850,000 | 397 | 649 | 1.285086224 | GGH,TTPA,YTHDF3 |
| 14 | 29,775,000 | 29,925,000 | 398 | 576 | 0.09213191 | TTPA,YTHDF3 |
| 14 | 29,850,000 | 30,000,000 | 399 | 946 | -0.651538478 | YTHDF3 |
| 14 | 29,925,000 | 30,075,000 | 400 | 990 | -0.396611521 | |
| 14 | 30,000,000 | 30,150,000 | 401 | 742 | 0.408226807 | |
| 14 | 30,075,000 | 30,225,000 | 402 | 664 | 0.728712938 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 14 | 30,150,000 | 30,300,000 | 403 | 542 | 0.470357753 | |
| 14 | 30,225,000 | 30,375,000 | 404 | 703 | -0.176595403 | |
| 14 | 30,300,000 | 30,450,000 | 405 | 827 | -0.117039276 | |
| 14 | 30,375,000 | 30,525,000 | 406 | 795 | -0.414560477 | |
| 14 | 30,450,000 | 30,600,000 | 407 | 869 | -0.533342882 | |
| 14 | 30,525,000 | 30,675,000 | 408 | 643 | -0.606866793 | |
| 14 | 30,600,000 | 30,750,000 | 409 | 559 | -1.007161779 | |
| 14 | 30,675,000 | 30,825,000 | 410 | 555 | -0.426472415 | |
| 14 | 30,750,000 | 30,900,000 | 411 | 545 | 0.80087743 | |
| 14 | 30,825,000 | 30,975,000 | 412 | 446 | 0.968075028 | BHLHE22 |
| 14 | 30,900,000 | 31,050,000 | 413 | 335 | 0.692956591 | BHLHE22,CYP7B1 |
| 14 | 30,975,000 | 31,125,000 | 414 | 423 | 0.320853499 | CYP7B1 |
| 14 | 31,050,000 | 31,200,000 | 415 | 497 | -0.086938394 | CYP7B1 |
| 14 | 31,125,000 | 31,275,000 | 416 | 685 | -0.078107963 | CYP7B1 |
| 14 | 31,200,000 | 31,350,000 | 417 | 811 | 0.731168135 | |
| 14 | 31,275,000 | 31,425,000 | 418 | 766 | 1.126976599 | |
| 14 | 31,350,000 | 31,500,000 | 419 | 660 | 0.645723919 | |
| 14 | 31,425,000 | 31,575,000 | 420 | 533 | 0.574474294 | |
| 14 | 31,500,000 | 31,650,000 | 421 | 637 | 0.868033181 | |
| 14 | 31,575,000 | 31,725,000 | 422 | 833 | 0.978265266 | ARMC1 |
| 14 | 31,650,000 | 31,800,000 | 423 | 881 | 1.095639555 | ARMC1,MTFR1 |
| 14 | 31,725,000 | 31,875,000 | 424 | 855 | 0.529613077 | MTFR1,PDE7A |
| 14 | 31,800,000 | 31,950,000 | 425 | 793 | -0.145564623 | PDE7A |
| 14 | 31,875,000 | 32,025,000 | 426 | 918 | 0.248687796 | |
| 14 | 31,950,000 | 32,100,000 | 427 | 1051 | 0.237837334 | DNAJC5B |
| 14 | 32,025,000 | 32,175,000 | 428 | 883 | -0.357329252 | DNAJC5B,TRIM55 |
| 14 | 32,100,000 | 32,250,000 | 429 | 751 | -1.018384967 | CRH,DNAJC5B,TRIM55 |
| 14 | 32,175,000 | 32,325,000 | 430 | 659 | -0.683321177 | CRH,TRIM55 |
| 14 | 32,250,000 | 32,400,000 | 431 | 315 | -0.081594523 | |
| 14 | 32,325,000 | 32,475,000 | 432 | 73 | -0.920857427 | |
| 14 | 32,400,000 | 32,550,000 | 433 | 116 | -1.36343273 | ENSBTAG00000040021 |
| 14 | 32,475,000 | 32,625,000 | 434 | 367 | -1.442351654 | ENSBTAG00000040021 |
| 14 | 32,550,000 | 32,700,000 | 435 | 447 | -1.168660439 | RRS1 |
| 14 | 32,625,000 | 32,775,000 | 436 | 320 | -0.414237456 | ADHFE1,C14H8orf46,RRS1 |
| 14 | 32,700,000 | 32,850,000 | 437 | 301 | -0.000955578 | ADHFE1,C14H8orf46,MYBL1,RRS1 |
| 14 | 32,775,000 | 32,925,000 | 438 | 247 | 0.558567971 | C14H8orf46,MYBL1,VCPIP1 |
| 14 | 32,850,000 | 33,000,000 | 439 | 209 | 1.38779799 | MYBL1,VCPIP1 |
| 14 | 32,925,000 | 33,075,000 | 440 | 234 | 1.245074924 | MCMD2,ENSBTAG00000013284 |
| 14 | 33,000,000 | 33,150,000 | 441 | 234 | 0.647664799 | MCMD2,PPP1R42,ENSBTAG00000013284 |
| 14 | 33,075,000 | 33,225,000 | 442 | 444 | -1.180825047 | COPS5,MCMD2,PPP1R42 |
| 14 | 33,150,000 | 33,300,000 | 443 | 780 | -1.004405217 | COPS5,CSPP1,PPP1R42 |
| 14 | 33,225,000 | 33,375,000 | 444 | 1024 | 0.455850413 | ARFGF1,COPS5,CSPP1 |
| 14 | 33,300,000 | 33,450,000 | 445 | 1172 | -0.282984693 | ARFGF1,CSPP1 |
| 14 | 33,375,000 | 33,525,000 | 446 | 909 | -1.690074251 | ARFGF1 |
| 14 | 33,450,000 | 33,600,000 | 447 | 972 | -0.682456461 | ARFGF1,CPA6 |
| 14 | 33,525,000 | 33,675,000 | 448 | 939 | -0.288757033 | CPA6 |
| 14 | 33,600,000 | 33,750,000 | 449 | 557 | 0.166725343 | CPA6 |
| 14 | 33,675,000 | 33,825,000 | 450 | 517 | -0.430985041 | |
| 14 | 33,750,000 | 33,900,000 | 451 | 496 | -1.713606875 | |
| 14 | 33,825,000 | 33,975,000 | 452 | 686 | -0.452579561 | |
| 14 | 33,900,000 | 34,050,000 | 453 | 1031 | -0.446743772 | PREX2 |
| 14 | 33,975,000 | 34,125,000 | 454 | 1092 | -0.352982121 | PREX2 |
| 14 | 34,050,000 | 34,200,000 | 455 | 993 | 0.650554966 | PREX2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 14 | 34,125,000 | 34,275,000 | 456 | 1110 | 1.232473388 | PREX2 |
| 14 | 34,200,000 | 34,350,000 | 457 | 1294 | 0.956232453 | PREX2 |
| 14 | 34,275,000 | 34,425,000 | 458 | 1303 | 0.526726889 | PREX2 |
| 14 | 34,350,000 | 34,500,000 | 459 | 1298 | 0.686059721 | C14H8orf34 |
| 14 | 34,425,000 | 34,575,000 | 460 | 1304 | 0.346907059 | C14H8orf34 |
| 14 | 34,500,000 | 34,650,000 | 461 | 1202 | -0.295527143 | C14H8orf34 |
| 14 | 34,575,000 | 34,725,000 | 462 | 1157 | -2.594843174 | C14H8orf34 |
| 14 | 34,650,000 | 34,800,000 | 463 | 1020 | -2.488510034 | C14H8orf34 |
| 14 | 34,725,000 | 34,875,000 | 464 | 1012 | -0.14259328 | C14H8orf34 |
| 14 | 34,800,000 | 34,950,000 | 465 | 929 | 0.412951915 | C14H8orf34 |
| 14 | 34,875,000 | 35,025,000 | 466 | 777 | 0.549281711 | |
| 14 | 34,950,000 | 35,100,000 | 467 | 904 | -0.634371159 | |
| 14 | 35,025,000 | 35,175,000 | 468 | 840 | -1.180085844 | |
| 14 | 35,100,000 | 35,250,000 | 469 | 782 | 0.185172162 | |
| 14 | 35,175,000 | 35,325,000 | 470 | 664 | 0.329380933 | |
| 14 | 35,250,000 | 35,400,000 | 471 | 379 | 0.150196406 | |
| 14 | 35,325,000 | 35,475,000 | 472 | 523 | 0.41061648 | |
| 14 | 35,400,000 | 35,550,000 | 473 | 802 | 0.065915472 | SULF1 |
| 14 | 35,475,000 | 35,625,000 | 474 | 930 | 0.131975867 | SLCO5A1,SULF1,ENSBTAG00000037399 |
| 14 | 35,550,000 | 35,700,000 | 475 | 1018 | 0.509636193 | SLCO5A1,SULF1,ENSBTAG00000037399 |
| 14 | 35,625,000 | 35,775,000 | 476 | 993 | 1.069590132 | SLCO5A1 |
| 14 | 35,700,000 | 35,850,000 | 477 | 903 | 1.092819694 | SLCO5A1 |
| 14 | 35,775,000 | 35,925,000 | 478 | 987 | 0.78876854 | PRDM14 |
| 14 | 35,850,000 | 36,000,000 | 479 | 879 | 0.672199188 | NCOA2,PRDM14 |
| 14 | 35,925,000 | 36,075,000 | 480 | 717 | -1.020385087 | NCOA2 |
| 14 | 36,000,000 | 36,150,000 | 481 | 673 | -0.71158038 | NCOA2 |
| 14 | 36,075,000 | 36,225,000 | 482 | 542 | 1.190377967 | NCOA2 |
| 14 | 36,150,000 | 36,300,000 | 483 | 717 | 1.344335063 | |
| 14 | 36,225,000 | 36,375,000 | 484 | 1065 | 0.87514977 | |
| 14 | 36,300,000 | 36,450,000 | 485 | 959 | 0.451019629 | LACTB2,TRAM1 |
| 14 | 36,375,000 | 36,525,000 | 486 | 599 | 0.01517925 | LACTB2,TRAM1,XKR9 |
| 14 | 36,450,000 | 36,600,000 | 487 | 539 | -1.286931704 | LACTB2,XKR9 |
| 14 | 36,525,000 | 36,675,000 | 488 | 677 | -1.029402347 | |
| 14 | 36,600,000 | 36,750,000 | 489 | 916 | 0.65465538 | |
| 14 | 36,675,000 | 36,825,000 | 490 | 1180 | 1.154724162 | |
| 14 | 36,750,000 | 36,900,000 | 491 | 1083 | 1.220124475 | EYA1 |
| 14 | 36,825,000 | 36,975,000 | 492 | 703 | 1.399359789 | EYA1 |
| 14 | 36,900,000 | 37,050,000 | 493 | 586 | 1.265336217 | EYA1 |
| 14 | 36,975,000 | 37,125,000 | 494 | 518 | 0.201418553 | EYA1 |
| 14 | 37,050,000 | 37,200,000 | 495 | 395 | 0.896098955 | EYA1 |
| 14 | 37,125,000 | 37,275,000 | 496 | 278 | 1.516047392 | EYA1 |
| 14 | 37,200,000 | 37,350,000 | 497 | 368 | 1.433173107 | EYA1 |
| 14 | 37,275,000 | 37,425,000 | 498 | 642 | 1.23271966 | |
| 14 | 37,350,000 | 37,500,000 | 499 | 728 | 0.559768023 | |
| 14 | 37,425,000 | 37,575,000 | 500 | 762 | 0.588957216 | MSC |
| 14 | 37,500,000 | 37,650,000 | 501 | 884 | 1.001121548 | MSC |
| 14 | 37,575,000 | 37,725,000 | 502 | 738 | 0.878949645 | TRPA1 |
| 14 | 37,650,000 | 37,800,000 | 503 | 642 | 0.740444545 | TRPA1 |
| 14 | 37,725,000 | 37,875,000 | 504 | 810 | 0.149403315 | TRPA1 |
| 14 | 37,800,000 | 37,950,000 | 505 | 1161 | -0.590732834 | |
| 14 | 37,875,000 | 38,025,000 | 506 | 1247 | -0.23195091 | KCNB2,ENSBTAG00000048040 |
| 14 | 37,950,000 | 38,100,000 | 507 | 657 | 0.291459075 | KCNB2,ENSBTAG00000048040 |
| 14 | 38,025,000 | 38,175,000 | 508 | 552 | -0.276884193 | KCNB2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 14 | 38,100,000 | 38,250,000 | 509 | 1145 | 0.628026044 | KCNB2 |
| 14 | 38,175,000 | 38,325,000 | 510 | 1322 | 1.123023059 | KCNB2 |
| 14 | 38,250,000 | 38,400,000 | 511 | 1354 | 1.104108588 | KCNB2 |
| 14 | 38,325,000 | 38,475,000 | 512 | 1407 | 0.74435543 | KCNB2 |
| 14 | 38,400,000 | 38,550,000 | 513 | 1049 | 0.314726784 | KCNB2,TERF1 |
| 14 | 38,475,000 | 38,625,000 | 514 | 1055 | -0.623678116 | SBSPON,TERF1,ENSBTAG00000037470 |
| 14 | 38,550,000 | 38,700,000 | 515 | 1262 | -0.171395492 | SBSPON,ENSBTAG00000037470 |
| 14 | 38,625,000 | 38,775,000 | 516 | 1078 | 0.414298383 | RDH10,RPL7,ENSBTAG00000047607 |
| 14 | 38,700,000 | 38,850,000 | 517 | 853 | 0.463584182 | RDH10,RPL7,ENSBTAG00000047607 |
| 14 | 38,775,000 | 38,925,000 | 518 | 815 | 0.571823618 | |
| 14 | 38,850,000 | 39,000,000 | 519 | 866 | 0.314456435 | STAU2 |
| 14 | 38,925,000 | 39,075,000 | 520 | 907 | 0.569010596 | STAU2 |
| 14 | 39,000,000 | 39,150,000 | 521 | 794 | 0.447055128 | STAU2 |
| 14 | 39,075,000 | 39,225,000 | 522 | 741 | 0.164334256 | |
| 14 | 39,150,000 | 39,300,000 | 523 | 950 | 0.652565519 | UBE2W |
| 14 | 39,225,000 | 39,375,000 | 524 | 976 | 0.493862062 | MD2,TCEB1,TMEM70,UBE2W |
| 14 | 39,300,000 | 39,450,000 | 525 | 1067 | -0.627720752 | MD2,TCEB1,TMEM70 |
| 14 | 39,375,000 | 39,525,000 | 526 | 1338 | -1.613828563 | MD2 |
| 14 | 39,450,000 | 39,600,000 | 527 | 1279 | -0.952295465 | |
| 14 | 39,525,000 | 39,675,000 | 528 | 1024 | 0.128147217 | JPH1 |
| 14 | 39,600,000 | 39,750,000 | 529 | 757 | -0.320566773 | JPH1 |
| 14 | 39,675,000 | 39,825,000 | 530 | 627 | -0.326257661 | GDAP1,JPH1 |
| 14 | 39,750,000 | 39,900,000 | 531 | 1010 | -0.195305942 | GDAP1 |
| 14 | 39,825,000 | 39,975,000 | 532 | 1395 | -0.297086566 | |
| 14 | 39,900,000 | 40,050,000 | 533 | 1464 | 0.647902839 | |
| 14 | 39,975,000 | 40,125,000 | 534 | 1256 | 0.873214595 | |
| 14 | 40,050,000 | 40,200,000 | 535 | 876 | 0.886630908 | |
| 14 | 40,125,000 | 40,275,000 | 536 | 621 | 0.817501219 | |
| 14 | 40,200,000 | 40,350,000 | 537 | 566 | 0.613926813 | PI15 |
| 14 | 40,275,000 | 40,425,000 | 538 | 862 | 0.711339988 | CRISPLD1,PI15 |
| 14 | 40,350,000 | 40,500,000 | 539 | 1085 | -0.756138488 | CRISPLD1 |
| 14 | 40,425,000 | 40,575,000 | 540 | 833 | -1.472509106 | CRISPLD1 |
| 14 | 40,500,000 | 40,650,000 | 541 | 590 | 0.943718485 | |
| 14 | 40,575,000 | 40,725,000 | 542 | 795 | 0.854770724 | |
| 14 | 40,650,000 | 40,800,000 | 543 | 984 | 0.831703111 | |
| 14 | 40,725,000 | 40,875,000 | 544 | 1024 | -0.972932901 | HNF4G |
| 14 | 40,800,000 | 40,950,000 | 545 | 927 | -1.300244081 | HNF4G |
| 14 | 40,875,000 | 41,025,000 | 546 | 1051 | 0.353772256 | HNF4G |
| 14 | 40,950,000 | 41,100,000 | 547 | 1016 | 0.028354501 | HNF4G |
| 14 | 41,025,000 | 41,175,000 | 548 | 740 | -0.270926824 | |
| 14 | 41,100,000 | 41,250,000 | 549 | 719 | -0.328962354 | |
| 14 | 41,175,000 | 41,325,000 | 550 | 834 | -1.164618898 | |
| 14 | 41,250,000 | 41,400,000 | 551 | 1200 | -0.744484607 | |
| 14 | 41,325,000 | 41,475,000 | 552 | 1356 | -0.496535992 | |
| 14 | 41,400,000 | 41,550,000 | 553 | 1483 | -0.968586362 | |
| 14 | 41,475,000 | 41,625,000 | 554 | 1396 | -0.543136097 | |
| 14 | 41,550,000 | 41,700,000 | 555 | 1102 | 0.267229358 | |
| 14 | 41,625,000 | 41,775,000 | 556 | 1019 | 0.839502644 | |
| 14 | 41,700,000 | 41,850,000 | 557 | 750 | 1.02717204 | |
| 14 | 41,775,000 | 41,925,000 | 558 | 617 | 0.240048674 | |
| 14 | 41,850,000 | 42,000,000 | 559 | 435 | -0.489534822 | ZFHX4 |
| 14 | 41,925,000 | 42,075,000 | 560 | 139 | -0.998963087 | ZFHX4 |
| 14 | 42,000,000 | 42,150,000 | 561 | 81 | -3.166376962 | ZFHX4 |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|-------------------------------|
| 14 | 42,075,000 | 42,225,000 | 562 | 74 | -3.312767707 | ZFHX4 |
| 14 | 42,150,000 | 42,300,000 | 563 | 139 | -7.071609623 | ZFHX4,ENSBTAG00000047355 |
| 14 | 42,225,000 | 42,375,000 | 564 | 276 | -1.738905873 | PEX2,ENSBTAG00000047355 |
| 14 | 42,300,000 | 42,450,000 | 565 | 290 | 0.042869197 | PEX2 |
| 14 | 42,375,000 | 42,525,000 | 566 | 214 | -1.073158178 | |
| 14 | 42,450,000 | 42,600,000 | 567 | 230 | -1.273647447 | |
| 14 | 42,525,000 | 42,675,000 | 568 | 328 | -2.244091887 | MRPL33 |
| 14 | 42,600,000 | 42,750,000 | 569 | 399 | -3.254843337 | MRPL33 |
| 14 | 42,675,000 | 42,825,000 | 570 | 487 | -3.625365422 | |
| 14 | 42,750,000 | 42,900,000 | 571 | 639 | -1.083508917 | |
| 14 | 42,825,000 | 42,975,000 | 572 | 842 | 0.407323421 | |
| 14 | 42,900,000 | 43,050,000 | 573 | 772 | 0.315617541 | ENSBTAG00000039499 |
| 14 | 42,975,000 | 43,125,000 | 574 | 495 | -0.880783509 | ENSBTAG00000039499 |
| 14 | 43,050,000 | 43,200,000 | 575 | 400 | -0.969336266 | |
| 14 | 43,125,000 | 43,275,000 | 576 | 652 | -0.575513066 | |
| 14 | 43,200,000 | 43,350,000 | 577 | 655 | -0.962962675 | |
| 14 | 43,275,000 | 43,425,000 | 578 | 680 | -1.274511779 | |
| 14 | 43,350,000 | 43,500,000 | 579 | 801 | -2.776219633 | |
| 14 | 43,425,000 | 43,575,000 | 580 | 598 | -2.496750054 | |
| 14 | 43,500,000 | 43,650,000 | 581 | 626 | -0.432179896 | |
| 14 | 43,575,000 | 43,725,000 | 582 | 606 | 0.199589355 | ENSBTAG00000017169 |
| 14 | 43,650,000 | 43,800,000 | 583 | 622 | -0.60982632 | ENSBTAG00000017169 |
| 14 | 43,725,000 | 43,875,000 | 584 | 502 | -2.699850323 | |
| 14 | 43,800,000 | 43,950,000 | 585 | 485 | -4.970289535 | PKIA |
| 14 | 43,875,000 | 44,025,000 | 586 | 517 | -4.053206925 | PKIA |
| 14 | 43,950,000 | 44,100,000 | 587 | 384 | 0.949866281 | IL7,PKIA,ZC2HC1A |
| 14 | 44,025,000 | 44,175,000 | 588 | 674 | 0.597242262 | IL7,ZC2HC1A |
| 14 | 44,100,000 | 44,250,000 | 589 | 920 | 0.912337487 | IL7 |
| 14 | 44,175,000 | 44,325,000 | 590 | 662 | 1.210095716 | IL7 |
| 14 | 44,250,000 | 44,400,000 | 591 | 357 | 0.475086093 | |
| 14 | 44,325,000 | 44,475,000 | 592 | 365 | 0.118814582 | |
| 14 | 44,400,000 | 44,550,000 | 593 | 409 | 0.198244559 | |
| 14 | 44,475,000 | 44,625,000 | 594 | 521 | 0.19471875 | |
| 14 | 44,550,000 | 44,700,000 | 595 | 590 | 0.431223531 | |
| 14 | 44,625,000 | 44,775,000 | 596 | 676 | 0.638660418 | |
| 14 | 44,700,000 | 44,850,000 | 597 | 885 | 0.187321047 | |
| 14 | 44,775,000 | 44,925,000 | 598 | 837 | -1.185824075 | |
| 14 | 44,850,000 | 45,000,000 | 599 | 641 | -1.257229769 | STMN2 |
| 14 | 44,925,000 | 45,075,000 | 600 | 794 | 0.691979909 | STMN2,ENSBTAG00000032812 |
| 14 | 45,000,000 | 45,150,000 | 601 | 880 | 0.846221301 | HEY1,STMN2,ENSBTAG00000032812 |
| 14 | 45,075,000 | 45,225,000 | 602 | 530 | 0.563124698 | HEY1 |
| 14 | 45,150,000 | 45,300,000 | 603 | 441 | -0.065676556 | MRPS28 |
| 14 | 45,225,000 | 45,375,000 | 604 | 691 | 0.700799184 | MRPS28 |
| 14 | 45,300,000 | 45,450,000 | 605 | 592 | 0.875868755 | MRPS28 |
| 14 | 45,375,000 | 45,525,000 | 606 | 503 | 0.922155893 | MRPS28,TPD52 |
| 14 | 45,450,000 | 45,600,000 | 607 | 635 | 1.220812473 | MRPS28,TPD52 |
| 14 | 45,525,000 | 45,675,000 | 608 | 468 | 1.257323292 | TPD52 |
| 14 | 45,600,000 | 45,750,000 | 609 | 347 | 0.884095077 | |
| 14 | 45,675,000 | 45,825,000 | 610 | 368 | 0.562458985 | |
| 14 | 45,750,000 | 45,900,000 | 611 | 319 | 0.503745463 | ZBTB10 |
| 14 | 45,825,000 | 45,975,000 | 612 | 408 | 0.217961759 | ZBTB10 |
| 14 | 45,900,000 | 46,050,000 | 613 | 590 | 0.455774238 | ZNF704 |
| 14 | 45,975,000 | 46,125,000 | 614 | 747 | 0.757176819 | ZNF704 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 14 | 46,050,000 | 46,200,000 | 615 | 1045 | 0.656284091 | |
| 14 | 46,125,000 | 46,275,000 | 616 | 1065 | 0.201456776 | |
| 14 | 46,200,000 | 46,350,000 | 617 | 863 | 0.141155804 | PAG1 |
| 14 | 46,275,000 | 46,425,000 | 618 | 1057 | 1.054854307 | PAG1 |
| 14 | 46,350,000 | 46,500,000 | 619 | 1202 | 1.085838906 | PAG1 |
| 14 | 46,425,000 | 46,575,000 | 620 | 1075 | 0.893889518 | |
| 14 | 46,500,000 | 46,650,000 | 621 | 983 | 0.873862024 | FABP5 |
| 14 | 46,575,000 | 46,725,000 | 622 | 974 | 0.957559678 | FABP5 |
| 14 | 46,650,000 | 46,800,000 | 623 | 1095 | 0.473920679 | |
| 14 | 46,725,000 | 46,875,000 | 624 | 1168 | 0.446200877 | FABP4,FABP9,PMP2 |
| 14 | 46,800,000 | 46,950,000 | 625 | 980 | 0.562765419 | FABP12,FABP4,FABP9,PMP2 |
| 14 | 46,875,000 | 47,025,000 | 626 | 966 | 0.195162208 | FABP12,NOV |
| 14 | 46,950,000 | 47,100,000 | 627 | 1175 | -0.041762125 | NOV |
| 14 | 47,025,000 | 47,175,000 | 628 | 1162 | 0.093295051 | MAL2 |
| 14 | 47,100,000 | 47,250,000 | 629 | 1179 | 0.850830314 | MAL2 |
| 14 | 47,175,000 | 47,325,000 | 630 | 958 | 1.101981399 | COLEC10 |
| 14 | 47,250,000 | 47,400,000 | 631 | 634 | 0.628151385 | COLEC10 |
| 14 | 47,325,000 | 47,475,000 | 632 | 779 | 1.296779009 | TNFRSF11B |
| 14 | 47,400,000 | 47,550,000 | 633 | 1017 | 1.478076537 | TNFRSF11B |
| 14 | 47,475,000 | 47,625,000 | 634 | 967 | 1.359771972 | |
| 14 | 47,550,000 | 47,700,000 | 635 | 1102 | 0.495825224 | |
| 14 | 47,625,000 | 47,775,000 | 636 | 1060 | 0.200928317 | |
| 14 | 47,700,000 | 47,850,000 | 637 | 729 | 0.701089968 | SAMD12 |
| 14 | 47,775,000 | 47,925,000 | 638 | 744 | -0.148530331 | SAMD12 |
| 14 | 47,850,000 | 48,000,000 | 639 | 717 | 0.181071098 | SAMD12 |
| 14 | 47,925,000 | 48,075,000 | 640 | 539 | 0.68908658 | SAMD12 |
| 14 | 48,000,000 | 48,150,000 | 641 | 743 | 0.503540312 | SAMD12 |
| 14 | 48,075,000 | 48,225,000 | 642 | 1064 | 0.510085666 | SAMD12 |
| 14 | 48,150,000 | 48,300,000 | 643 | 918 | 0.467710029 | SAMD12 |
| 14 | 48,225,000 | 48,375,000 | 644 | 546 | 0.415984814 | EXT1 |
| 14 | 48,300,000 | 48,450,000 | 645 | 703 | -2.060580885 | EXT1 |
| 14 | 48,375,000 | 48,525,000 | 646 | 960 | -2.291915063 | EXT1 |
| 14 | 48,450,000 | 48,600,000 | 647 | 782 | -0.45647093 | EXT1 |
| 14 | 48,525,000 | 48,675,000 | 648 | 754 | 0.707137166 | EXT1 |
| 14 | 48,600,000 | 48,750,000 | 649 | 687 | 0.956579994 | EXT1 |
| 14 | 48,675,000 | 48,825,000 | 650 | 753 | 0.927195994 | |
| 14 | 48,750,000 | 48,900,000 | 651 | 978 | 0.512574938 | |
| 14 | 48,825,000 | 48,975,000 | 652 | 863 | 0.208596868 | MED30 |
| 14 | 48,900,000 | 49,050,000 | 653 | 749 | 0.914066998 | MED30 |
| 14 | 48,975,000 | 49,125,000 | 654 | 669 | 1.07813049 | |
| 14 | 49,050,000 | 49,200,000 | 655 | 714 | 0.92714581 | |
| 14 | 49,125,000 | 49,275,000 | 656 | 789 | 1.11086691 | |
| 14 | 49,200,000 | 49,350,000 | 657 | 1039 | 1.215579057 | |
| 14 | 49,275,000 | 49,425,000 | 658 | 946 | 0.314284396 | |
| 14 | 49,350,000 | 49,500,000 | 659 | 537 | -1.418983979 | AARD |
| 14 | 49,425,000 | 49,575,000 | 660 | 658 | 0.213800522 | AARD,RAD21 |
| 14 | 49,500,000 | 49,650,000 | 661 | 577 | 0.565531205 | AARD,RAD21 |
| 14 | 49,575,000 | 49,725,000 | 662 | 436 | -0.545108912 | RAD21,UTP23 |
| 14 | 49,650,000 | 49,800,000 | 663 | 681 | -0.061683658 | EIF3H,UTP23 |
| 14 | 49,725,000 | 49,875,000 | 664 | 853 | 0.417918302 | EIF3H |
| 14 | 49,800,000 | 49,950,000 | 665 | 695 | -0.228189207 | EIF3H |
| 14 | 49,875,000 | 50,025,000 | 666 | 616 | 0.368391901 | |
| 14 | 49,950,000 | 50,100,000 | 667 | 505 | 0.874853234 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------|
| 14 | 50,025,000 | 50,175,000 | 668 | 319 | 0.209458099 | |
| 14 | 50,100,000 | 50,250,000 | 669 | 613 | -0.906496956 | |
| 14 | 50,175,000 | 50,325,000 | 670 | 696 | -0.839401581 | |
| 14 | 50,250,000 | 50,400,000 | 671 | 624 | -0.13463965 | |
| 14 | 50,325,000 | 50,475,000 | 672 | 677 | 0.039134656 | |
| 14 | 50,400,000 | 50,550,000 | 673 | 704 | 0.453967812 | |
| 14 | 50,475,000 | 50,625,000 | 674 | 739 | 0.021740225 | |
| 14 | 50,550,000 | 50,700,000 | 675 | 722 | 0.23105092 | |
| 14 | 50,625,000 | 50,775,000 | 676 | 536 | 0.49081354 | |
| 14 | 50,700,000 | 50,850,000 | 677 | 286 | 0.124430193 | TRPS1 |
| 14 | 50,775,000 | 50,925,000 | 678 | 426 | 0.148405519 | TRPS1 |
| 14 | 50,850,000 | 51,000,000 | 679 | 557 | 0.249450636 | TRPS1 |
| 14 | 50,925,000 | 51,075,000 | 680 | 505 | 0.333765569 | TRPS1 |
| 14 | 51,000,000 | 51,150,000 | 681 | 371 | 0.575937811 | TRPS1 |
| 14 | 51,075,000 | 51,225,000 | 682 | 684 | 0.277325407 | |
| 14 | 51,150,000 | 51,300,000 | 683 | 938 | -0.024683119 | |
| 14 | 51,225,000 | 51,375,000 | 684 | 718 | 0.04057769 | |
| 14 | 51,300,000 | 51,450,000 | 685 | 830 | -0.446018163 | |
| 14 | 51,375,000 | 51,525,000 | 686 | 1126 | -1.177592828 | |
| 14 | 51,450,000 | 51,600,000 | 687 | 974 | -0.992407398 | |
| 14 | 51,525,000 | 51,675,000 | 688 | 963 | -0.61828479 | |
| 14 | 51,600,000 | 51,750,000 | 689 | 848 | -0.337662829 | |
| 14 | 51,675,000 | 51,825,000 | 690 | 650 | 0.664765784 | |
| 14 | 51,750,000 | 51,900,000 | 691 | 776 | 0.58195513 | |
| 14 | 51,825,000 | 51,975,000 | 692 | 777 | -0.301462147 | |
| 14 | 51,900,000 | 52,050,000 | 693 | 750 | -2.361364053 | |
| 14 | 51,975,000 | 52,125,000 | 694 | 963 | -0.924647545 | |
| 14 | 52,050,000 | 52,200,000 | 695 | 964 | 0.430375191 | |
| 14 | 52,125,000 | 52,275,000 | 696 | 741 | 0.754549354 | |
| 14 | 52,200,000 | 52,350,000 | 697 | 773 | 0.519987404 | |
| 14 | 52,275,000 | 52,425,000 | 698 | 785 | 0.329707695 | |
| 14 | 52,350,000 | 52,500,000 | 699 | 561 | 0.685636712 | |
| 14 | 52,425,000 | 52,575,000 | 700 | 337 | 0.60242043 | |
| 14 | 52,500,000 | 52,650,000 | 701 | 501 | -0.454048494 | |
| 14 | 52,575,000 | 52,725,000 | 702 | 842 | -0.458814363 | |
| 14 | 52,650,000 | 52,800,000 | 703 | 1267 | -2.490312988 | |
| 14 | 52,725,000 | 52,875,000 | 704 | 1187 | -2.378111356 | |
| 14 | 52,800,000 | 52,950,000 | 705 | 938 | -0.058064208 | CSMD3 |
| 14 | 52,875,000 | 53,025,000 | 706 | 683 | 0.24397298 | CSMD3 |
| 14 | 52,950,000 | 53,100,000 | 707 | 407 | 0.468439761 | CSMD3 |
| 14 | 53,025,000 | 53,175,000 | 708 | 670 | 0.357691508 | |
| 14 | 53,100,000 | 53,250,000 | 709 | 990 | 0.112226349 | |
| 14 | 53,175,000 | 53,325,000 | 710 | 800 | 0.110345194 | |
| 14 | 53,250,000 | 53,400,000 | 711 | 653 | 0.663909803 | |
| 14 | 53,325,000 | 53,475,000 | 712 | 841 | 0.818119178 | |
| 14 | 53,400,000 | 53,550,000 | 713 | 950 | 0.995595235 | |
| 14 | 53,475,000 | 53,625,000 | 714 | 714 | 1.067322496 | |
| 14 | 53,550,000 | 53,700,000 | 715 | 439 | 1.132416969 | |
| 14 | 53,625,000 | 53,775,000 | 716 | 520 | -0.666462161 | |
| 14 | 53,700,000 | 53,850,000 | 717 | 504 | -2.617975426 | |
| 14 | 53,775,000 | 53,925,000 | 718 | 531 | -2.126591127 | CSMD3 |
| 14 | 53,850,000 | 54,000,000 | 719 | 850 | -1.77219098 | CSMD3 |
| 14 | 53,925,000 | 54,075,000 | 720 | 858 | -0.967005892 | CSMD3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 14 | 54,000,000 | 54,150,000 | 721 | 576 | -0.127882768 | CSMD3 |
| 14 | 54,075,000 | 54,225,000 | 722 | 724 | 0.916116096 | CSMD3 |
| 14 | 54,150,000 | 54,300,000 | 723 | 951 | -0.834241213 | CSMD3 |
| 14 | 54,225,000 | 54,375,000 | 724 | 1196 | -2.49793238 | CSMD3 |
| 14 | 54,300,000 | 54,450,000 | 725 | 1258 | -3.02556148 | CSMD3 |
| 14 | 54,375,000 | 54,525,000 | 726 | 920 | -3.626571551 | CSMD3 |
| 14 | 54,450,000 | 54,600,000 | 727 | 592 | -2.302675627 | |
| 14 | 54,525,000 | 54,675,000 | 728 | 411 | -0.557194982 | |
| 14 | 54,600,000 | 54,750,000 | 729 | 804 | -0.344762929 | |
| 14 | 54,675,000 | 54,825,000 | 730 | 1010 | -1.131551466 | |
| 14 | 54,750,000 | 54,900,000 | 731 | 898 | -1.759525682 | |
| 14 | 54,825,000 | 54,975,000 | 732 | 1082 | -1.710262439 | |
| 14 | 54,900,000 | 55,050,000 | 733 | 1050 | -2.395450597 | |
| 14 | 54,975,000 | 55,125,000 | 734 | 1021 | -0.340431211 | |
| 14 | 55,050,000 | 55,200,000 | 735 | 838 | 0.490925393 | |
| 14 | 55,125,000 | 55,275,000 | 736 | 685 | -0.613473038 | |
| 14 | 55,200,000 | 55,350,000 | 737 | 969 | -0.133143513 | |
| 14 | 55,275,000 | 55,425,000 | 738 | 1197 | -0.300310355 | |
| 14 | 55,350,000 | 55,500,000 | 739 | 1408 | 0.312920835 | |
| 14 | 55,425,000 | 55,575,000 | 740 | 1231 | 1.009465769 | |
| 14 | 55,500,000 | 55,650,000 | 741 | 985 | 1.027514577 | |
| 14 | 55,575,000 | 55,725,000 | 742 | 1061 | 1.173985694 | |
| 14 | 55,650,000 | 55,800,000 | 743 | 847 | 1.148222237 | |
| 14 | 55,725,000 | 55,875,000 | 744 | 565 | 0.535461859 | |
| 14 | 55,800,000 | 55,950,000 | 745 | 487 | 0.028627673 | |
| 14 | 55,875,000 | 56,025,000 | 746 | 634 | 0.199077654 | |
| 14 | 55,950,000 | 56,100,000 | 747 | 646 | -0.245760674 | |
| 14 | 56,025,000 | 56,175,000 | 748 | 714 | -0.926071696 | |
| 14 | 56,100,000 | 56,250,000 | 749 | 1040 | 0.039948338 | |
| 14 | 56,175,000 | 56,325,000 | 750 | 928 | 0.550807034 | |
| 14 | 56,250,000 | 56,400,000 | 751 | 1027 | 0.461588247 | |
| 14 | 56,325,000 | 56,475,000 | 752 | 1642 | -0.444883424 | |
| 14 | 56,400,000 | 56,550,000 | 753 | 1626 | -1.540014789 | |
| 14 | 56,475,000 | 56,625,000 | 754 | 1588 | -1.149738825 | |
| 14 | 56,550,000 | 56,700,000 | 755 | 1443 | -0.282614919 | KCNV1 |
| 14 | 56,625,000 | 56,775,000 | 756 | 994 | 0.34214854 | KCNV1 |
| 14 | 56,700,000 | 56,850,000 | 757 | 1018 | 1.036212822 | ENSBTAG00000021747 |
| 14 | 56,775,000 | 56,925,000 | 758 | 764 | 0.874975739 | SYBU,ENSBTAG00000021747 |
| 14 | 56,850,000 | 57,000,000 | 759 | 820 | -0.095223905 | SYBU |
| 14 | 56,925,000 | 57,075,000 | 760 | 835 | 0.014270034 | EBAG9,SYBU |
| 14 | 57,000,000 | 57,150,000 | 761 | 511 | 0.033575569 | EBAG9 |
| 14 | 57,075,000 | 57,225,000 | 762 | 1031 | -1.493405144 | PKHD1L1 |
| 14 | 57,150,000 | 57,300,000 | 763 | 1070 | -1.27358698 | ENY2,NUDCD1,PKHD1L1 |
| 14 | 57,225,000 | 57,375,000 | 764 | 1014 | 1.11990105 | ENY2,NUDCD1 |
| 14 | 57,300,000 | 57,450,000 | 765 | 1595 | 0.870818151 | NUDCD1 |
| 14 | 57,375,000 | 57,525,000 | 766 | 1399 | -1.820410628 | TRHR |
| 14 | 57,450,000 | 57,600,000 | 767 | 1181 | -1.289864537 | TRHR |
| 14 | 57,525,000 | 57,675,000 | 768 | 1157 | 0.818491135 | |
| 14 | 57,600,000 | 57,750,000 | 769 | 786 | 0.510644575 | |
| 14 | 57,675,000 | 57,825,000 | 770 | 609 | 0.650158119 | TMEM74 |
| 14 | 57,750,000 | 57,900,000 | 771 | 786 | 1.124419856 | TMEM74 |
| 14 | 57,825,000 | 57,975,000 | 772 | 611 | 1.140053953 | |
| 14 | 57,900,000 | 58,050,000 | 773 | 325 | -1.349946967 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 14 | 57,975,000 | 58,125,000 | 774 | 360 | -3.102193768 | |
| 14 | 58,050,000 | 58,200,000 | 775 | 396 | 0.356159053 | EMC2 |
| 14 | 58,125,000 | 58,275,000 | 776 | 316 | 0.728905225 | EMC2 |
| 14 | 58,200,000 | 58,350,000 | 777 | 188 | -0.043099005 | |
| 14 | 58,275,000 | 58,425,000 | 778 | 275 | 0.130121913 | EIF3E |
| 14 | 58,350,000 | 58,500,000 | 779 | 440 | 0.30983052 | EIF3E |
| 14 | 58,425,000 | 58,575,000 | 780 | 647 | -1.035413756 | EIF3E,RSPO2 |
| 14 | 58,500,000 | 58,650,000 | 781 | 652 | -1.427497282 | RSPO2 |
| 14 | 58,575,000 | 58,725,000 | 782 | 598 | -0.536496187 | RSPO2 |
| 14 | 58,650,000 | 58,800,000 | 783 | 597 | 0.068096905 | RSPO2 |
| 14 | 58,725,000 | 58,875,000 | 784 | 383 | 0.029870578 | IFT27 |
| 14 | 58,800,000 | 58,950,000 | 785 | 266 | -0.12187187 | IFT27 |
| 14 | 58,875,000 | 59,025,000 | 786 | 305 | 0.105756726 | |
| 14 | 58,950,000 | 59,100,000 | 787 | 296 | 0.086738632 | |
| 14 | 59,025,000 | 59,175,000 | 788 | 306 | 0.008108383 | ANGPT1,ENSBTAG00000008257 |
| 14 | 59,100,000 | 59,250,000 | 789 | 303 | -0.656253081 | ANGPT1,ENSBTAG00000008257 |
| 14 | 59,175,000 | 59,325,000 | 790 | 404 | -3.093795172 | ANGPT1 |
| 14 | 59,250,000 | 59,400,000 | 791 | 700 | -1.094070374 | ANGPT1 |
| 14 | 59,325,000 | 59,475,000 | 792 | 934 | 0.619867226 | ANGPT1 |
| 14 | 59,400,000 | 59,550,000 | 793 | 1188 | 0.350939797 | ANGPT1 |
| 14 | 59,475,000 | 59,625,000 | 794 | 1265 | 0.726713826 | |
| 14 | 59,550,000 | 59,700,000 | 795 | 1227 | 0.715785312 | |
| 14 | 59,625,000 | 59,775,000 | 796 | 1279 | 0.687312074 | |
| 14 | 59,700,000 | 59,850,000 | 797 | 848 | 0.905878804 | |
| 14 | 59,775,000 | 59,925,000 | 798 | 701 | 1.20606344 | |
| 14 | 59,850,000 | 60,000,000 | 799 | 871 | 1.138295165 | ABRA |
| 14 | 59,925,000 | 60,075,000 | 800 | 615 | 0.904034088 | ABRA,OXR1 |
| 14 | 60,000,000 | 60,150,000 | 801 | 578 | 0.783441901 | OXR1 |
| 14 | 60,075,000 | 60,225,000 | 802 | 1004 | -0.568485456 | OXR1 |
| 14 | 60,150,000 | 60,300,000 | 803 | 913 | -1.050643934 | |
| 14 | 60,225,000 | 60,375,000 | 804 | 802 | 0.313781472 | |
| 14 | 60,300,000 | 60,450,000 | 805 | 805 | 0.565880444 | |
| 14 | 60,375,000 | 60,525,000 | 806 | 630 | -0.15552369 | |
| 14 | 60,450,000 | 60,600,000 | 807 | 983 | -0.166335828 | |
| 14 | 60,525,000 | 60,675,000 | 808 | 1502 | 0.045480315 | |
| 14 | 60,600,000 | 60,750,000 | 809 | 1337 | 0.398066199 | |
| 14 | 60,675,000 | 60,825,000 | 810 | 925 | 0.860659514 | |
| 14 | 60,750,000 | 60,900,000 | 811 | 1180 | 0.798169805 | |
| 14 | 60,825,000 | 60,975,000 | 812 | 1242 | 0.967113741 | |
| 14 | 60,900,000 | 61,050,000 | 813 | 981 | 0.799214194 | ZFPM2 |
| 14 | 60,975,000 | 61,125,000 | 814 | 933 | -0.180931769 | ZFPM2 |
| 14 | 61,050,000 | 61,200,000 | 815 | 807 | -1.203844867 | ZFPM2 |
| 14 | 61,125,000 | 61,275,000 | 816 | 574 | -0.484097459 | ZFPM2 |
| 14 | 61,200,000 | 61,350,000 | 817 | 754 | 0.942122743 | ZFPM2 |
| 14 | 61,275,000 | 61,425,000 | 818 | 839 | 0.050789918 | ZFPM2 |
| 14 | 61,350,000 | 61,500,000 | 819 | 561 | -2.747036704 | ZFPM2 |
| 14 | 61,425,000 | 61,575,000 | 820 | 360 | -3.838774442 | ZFPM2 |
| 14 | 61,500,000 | 61,650,000 | 821 | 288 | -1.972312041 | ZFPM2 |
| 14 | 61,575,000 | 61,725,000 | 822 | 351 | -1.891543291 | |
| 14 | 61,650,000 | 61,800,000 | 823 | 558 | -1.873384956 | |
| 14 | 61,725,000 | 61,875,000 | 824 | 802 | -0.673576805 | |
| 14 | 61,800,000 | 61,950,000 | 825 | 696 | 0.865856726 | |
| 14 | 61,875,000 | 62,025,000 | 826 | 578 | 1.014868601 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 14 | 61,950,000 | 62,100,000 | 827 | 585 | 0.352345602 | |
| 14 | 62,025,000 | 62,175,000 | 828 | 639 | 0.349447043 | |
| 14 | 62,100,000 | 62,250,000 | 829 | 534 | 1.189915362 | DCSTAMP,LRP12 |
| 14 | 62,175,000 | 62,325,000 | 830 | 614 | 0.770562478 | DCSTAMP,LRP12 |
| 14 | 62,250,000 | 62,400,000 | 831 | 1056 | -0.309798661 | DCSTAMP,DPYS,LRP12 |
| 14 | 62,325,000 | 62,475,000 | 832 | 1115 | -0.304478973 | DCSTAMP,DPYS |
| 14 | 62,400,000 | 62,550,000 | 833 | 1221 | 0.438517276 | DCSTAMP,DPYS,RIMS2 |
| 14 | 62,475,000 | 62,625,000 | 834 | 1211 | 0.216942994 | RIMS2 |
| 14 | 62,550,000 | 62,700,000 | 835 | 1002 | 0.133625855 | RIMS2 |
| 14 | 62,625,000 | 62,775,000 | 836 | 1052 | 0.139166725 | RIMS2 |
| 14 | 62,700,000 | 62,850,000 | 837 | 836 | -0.060733784 | RIMS2 |
| 14 | 62,775,000 | 62,925,000 | 838 | 492 | 0.21432655 | RIMS2 |
| 14 | 62,850,000 | 63,000,000 | 839 | 571 | 0.445212968 | RIMS2 |
| 14 | 62,925,000 | 63,075,000 | 840 | 643 | 0.169694996 | |
| 14 | 63,000,000 | 63,150,000 | 841 | 624 | 0.574007035 | |
| 14 | 63,075,000 | 63,225,000 | 842 | 569 | 0.738218153 | |
| 14 | 63,150,000 | 63,300,000 | 843 | 514 | 0.801705107 | DCAF13,SLC25A32 |
| 14 | 63,225,000 | 63,375,000 | 844 | 467 | 0.751899507 | CTHRC1,DCAF13,FZD6,SLC25A32 |
| 14 | 63,300,000 | 63,450,000 | 845 | 552 | -0.009236788 | BAALC,CTHRC1,FZD6 |
| 14 | 63,375,000 | 63,525,000 | 846 | 681 | -0.460951743 | BAALC,FZD6 |
| 14 | 63,450,000 | 63,600,000 | 847 | 1088 | 0.40690951 | ATP6V1C1,BAALC |
| 14 | 63,525,000 | 63,675,000 | 848 | 998 | 0.705842066 | ATP6V1C1,BAALC |
| 14 | 63,600,000 | 63,750,000 | 849 | 553 | 0.317476934 | ATP6V1C1 |
| 14 | 63,675,000 | 63,825,000 | 850 | 551 | 0.528889979 | AZIN1 |
| 14 | 63,750,000 | 63,900,000 | 851 | 495 | 0.500333451 | AZIN1 |
| 14 | 63,825,000 | 63,975,000 | 852 | 629 | 0.077120308 | TIEG1 |
| 14 | 63,900,000 | 64,050,000 | 853 | 873 | 0.25197264 | ODF1,TIEG1 |
| 14 | 63,975,000 | 64,125,000 | 854 | 797 | 0.374986208 | ODF1 |
| 14 | 64,050,000 | 64,200,000 | 855 | 486 | -0.304334073 | UBR5 |
| 14 | 64,125,000 | 64,275,000 | 856 | 402 | -0.003112775 | UBR5 |
| 14 | 64,200,000 | 64,350,000 | 857 | 516 | 0.118476903 | RRM2B,UBR5 |
| 14 | 64,275,000 | 64,425,000 | 858 | 559 | -2.743627643 | RRM2B,UBR5 |
| 14 | 64,350,000 | 64,500,000 | 859 | 493 | -1.619446566 | RRM2B |
| 14 | 64,425,000 | 64,575,000 | 860 | 731 | 0.989176828 | |
| 14 | 64,500,000 | 64,650,000 | 861 | 884 | 0.08152387 | |
| 14 | 64,575,000 | 64,725,000 | 862 | 913 | -4.664037939 | |
| 14 | 64,650,000 | 64,800,000 | 863 | 886 | -4.019442964 | |
| 14 | 64,725,000 | 64,875,000 | 864 | 807 | -0.028134201 | |
| 14 | 64,800,000 | 64,950,000 | 865 | 1001 | -0.364599824 | GRHL2,NCALD |
| 14 | 64,875,000 | 65,025,000 | 866 | 1181 | 0.056208495 | GRHL2,NCALD |
| 14 | 64,950,000 | 65,100,000 | 867 | 972 | 0.444213806 | GRHL2 |
| 14 | 65,025,000 | 65,175,000 | 868 | 961 | 0.545966807 | GRHL2 |
| 14 | 65,100,000 | 65,250,000 | 869 | 1163 | -0.46712027 | |
| 14 | 65,175,000 | 65,325,000 | 870 | 1183 | 0.167829909 | |
| 14 | 65,250,000 | 65,400,000 | 871 | 764 | 1.145433839 | MGC133632 |
| 14 | 65,325,000 | 65,475,000 | 872 | 717 | 0.544593892 | MGC133632 |
| 14 | 65,400,000 | 65,550,000 | 873 | 1061 | 0.605816963 | |
| 14 | 65,475,000 | 65,625,000 | 874 | 838 | 0.297138754 | YWHAZ |
| 14 | 65,550,000 | 65,700,000 | 875 | 883 | -0.383322058 | YWHAZ |
| 14 | 65,625,000 | 65,775,000 | 876 | 917 | -0.438332091 | |
| 14 | 65,700,000 | 65,850,000 | 877 | 847 | -1.403938279 | PABPC1 |
| 14 | 65,775,000 | 65,925,000 | 878 | 1103 | -0.999277478 | PABPC1,SNX31 |
| 14 | 65,850,000 | 66,000,000 | 879 | 1043 | 0.487581435 | ANKRD46,SNX31 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 14 | 65,925,000 | 66,075,000 | 880 | 710 | 0.736687057 | ANKRD46,SNX31 |
| 14 | 66,000,000 | 66,150,000 | 881 | 708 | 0.885261024 | ANKRD46 |
| 14 | 66,075,000 | 66,225,000 | 882 | 718 | 0.732347291 | |
| 14 | 66,150,000 | 66,300,000 | 883 | 449 | 0.284701623 | RNF19A |
| 14 | 66,225,000 | 66,375,000 | 884 | 399 | -0.391790557 | RNF19A,SPAG1 |
| 14 | 66,300,000 | 66,450,000 | 885 | 597 | -0.136202586 | FBXO43,SPAG1 |
| 14 | 66,375,000 | 66,525,000 | 886 | 689 | -1.013057256 | FBXO43,RGS22,SPAG1 |
| 14 | 66,450,000 | 66,600,000 | 887 | 633 | -1.262349903 | RGS22 |
| 14 | 66,525,000 | 66,675,000 | 888 | 546 | 0.014402847 | COX6C,RGS22 |
| 14 | 66,600,000 | 66,750,000 | 889 | 494 | -1.315421288 | COX6C |
| 14 | 66,675,000 | 66,825,000 | 890 | 391 | -1.824113131 | |
| 14 | 66,750,000 | 66,900,000 | 891 | 324 | 0.209869637 | |
| 14 | 66,825,000 | 66,975,000 | 892 | 389 | 0.261452672 | |
| 14 | 66,900,000 | 67,050,000 | 893 | 405 | 0.528878744 | ENSBTAG00000012357 |
| 14 | 66,975,000 | 67,125,000 | 894 | 421 | 0.625724001 | ENSBTAG00000012357 |
| 14 | 67,050,000 | 67,200,000 | 895 | 477 | 0.863479519 | ENSBTAG00000012357 |
| 14 | 67,125,000 | 67,275,000 | 896 | 457 | 0.951519356 | ENSBTAG00000012357 |
| 14 | 67,200,000 | 67,350,000 | 897 | 401 | 0.64215439 | ENSBTAG00000012357,ENSBTAG00000047534 |
| 14 | 67,275,000 | 67,425,000 | 898 | 326 | 0.375918863 | ENSBTAG00000026233,ENSBTAG00000047534 |
| 14 | 67,350,000 | 67,500,000 | 899 | 305 | 0.187621512 | ENSBTAG00000026233,ENSBTAG00000047534 |
| 14 | 67,425,000 | 67,575,000 | 900 | 365 | 0.276217433 | OSR2,ENSBTAG00000026233 |
| 14 | 67,500,000 | 67,650,000 | 901 | 411 | 0.879860282 | OSR2 |
| 14 | 67,575,000 | 67,725,000 | 902 | 556 | 0.969355231 | STK3 |
| 14 | 67,650,000 | 67,800,000 | 903 | 538 | 0.96804134 | STK3 |
| 14 | 67,725,000 | 67,875,000 | 904 | 430 | 1.026780996 | STK3 |
| 14 | 67,800,000 | 67,950,000 | 905 | 704 | 0.914826911 | STK3 |
| 14 | 67,875,000 | 68,025,000 | 906 | 1021 | 0.896135352 | STK3 |
| 14 | 67,950,000 | 68,100,000 | 907 | 990 | 0.666207615 | KCNS2,STK3 |
| 14 | 68,025,000 | 68,175,000 | 908 | 1000 | 0.640882632 | KCNS2,ENSBTAG00000046739 |
| 14 | 68,100,000 | 68,250,000 | 909 | 962 | 0.704848604 | ENSBTAG00000046739 |
| 14 | 68,175,000 | 68,325,000 | 910 | 591 | 0.696828758 | NIPAL2 |
| 14 | 68,250,000 | 68,400,000 | 911 | 495 | 0.80649792 | NIPAL2,POP1 |
| 14 | 68,325,000 | 68,475,000 | 912 | 744 | 1.034896717 | ERICH5,HRSP12,NIPAL2,POP1,RPL30 |
| 14 | 68,400,000 | 68,550,000 | 913 | 1014 | 1.231253149 | ERICH5,HRSP12,MATN2,POP1,RPL30 |
| 14 | 68,475,000 | 68,625,000 | 914 | 1069 | 0.135897308 | MATN2 |
| 14 | 68,550,000 | 68,700,000 | 915 | 1048 | -0.359876795 | LAPTM4B,MATN2 |
| 14 | 68,625,000 | 68,775,000 | 916 | 839 | -0.129732024 | LAPTM4B,MATN2 |
| 14 | 68,700,000 | 68,850,000 | 917 | 523 | -1.721395673 | LAPTM4B,MTDH |
| 14 | 68,775,000 | 68,925,000 | 918 | 810 | -0.824666366 | MTDH |
| 14 | 68,850,000 | 69,000,000 | 919 | 1172 | -0.580927364 | MTDH,ENSBTAG00000032432 |
| 14 | 68,925,000 | 69,075,000 | 920 | 959 | -0.621692522 | ENSBTAG00000032432 |
| 14 | 69,000,000 | 69,150,000 | 921 | 547 | -0.140114813 | TSPYL5 |
| 14 | 69,075,000 | 69,225,000 | 922 | 385 | -0.200407014 | HNRNPH3,TSPYL5 |
| 14 | 69,150,000 | 69,300,000 | 923 | 537 | 0.621196858 | CPQ,HNRNPH3 |
| 14 | 69,225,000 | 69,375,000 | 924 | 591 | 0.037924362 | CPQ,ENSBTAG00000047205 |
| 14 | 69,300,000 | 69,450,000 | 925 | 537 | -1.398208266 | CPQ,ENSBTAG00000047205 |
| 14 | 69,375,000 | 69,525,000 | 926 | 558 | -3.173359346 | CPQ |
| 14 | 69,450,000 | 69,600,000 | 927 | 740 | -3.260955738 | CPQ |
| 14 | 69,525,000 | 69,675,000 | 928 | 832 | -2.0453084 | CPQ |
| 14 | 69,600,000 | 69,750,000 | 929 | 865 | -1.636965926 | CPQ |
| 14 | 69,675,000 | 69,825,000 | 930 | 1241 | -1.070981767 | CPQ |
| 14 | 69,750,000 | 69,900,000 | 931 | 1391 | -1.827136097 | CPQ |
| 14 | 69,825,000 | 69,975,000 | 932 | 1340 | -1.051074683 | CPQ,SDC2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 14 | 69,900,000 | 70,050,000 | 933 | 1011 | 0.827661213 | SDC2 |
| 14 | 69,975,000 | 70,125,000 | 934 | 903 | 0.997005032 | SDC2 |
| 14 | 70,050,000 | 70,200,000 | 935 | 883 | 1.179145215 | SDC2 |
| 14 | 70,125,000 | 70,275,000 | 936 | 488 | 1.187519798 | PTDSS1 |
| 14 | 70,200,000 | 70,350,000 | 937 | 434 | 0.855418511 | MTERFD1,PTDSS1,UQCRB |
| 14 | 70,275,000 | 70,425,000 | 938 | 457 | 0.302608604 | GDF6,MTERFD1,PTDSS1,UQCRB |
| 14 | 70,350,000 | 70,500,000 | 939 | 484 | 0.142995792 | GDF6 |
| 14 | 70,425,000 | 70,575,000 | 940 | 533 | 0.744565369 | |
| 14 | 70,500,000 | 70,650,000 | 941 | 585 | 0.687222751 | |
| 14 | 70,575,000 | 70,725,000 | 942 | 678 | 1.010874637 | |
| 14 | 70,650,000 | 70,800,000 | 943 | 514 | 1.201907633 | |
| 14 | 70,725,000 | 70,875,000 | 944 | 341 | -1.284593529 | |
| 14 | 70,800,000 | 70,950,000 | 945 | 426 | -0.886764219 | |
| 14 | 70,875,000 | 71,025,000 | 946 | 516 | 0.907739109 | |
| 14 | 70,950,000 | 71,100,000 | 947 | 635 | 0.147548747 | |
| 14 | 71,025,000 | 71,175,000 | 948 | 786 | -0.00498364 | |
| 14 | 71,100,000 | 71,250,000 | 949 | 787 | 0.695346633 | |
| 14 | 71,175,000 | 71,325,000 | 950 | 588 | 0.142388638 | |
| 14 | 71,250,000 | 71,400,000 | 951 | 648 | -0.197717235 | C8orf37 |
| 14 | 71,325,000 | 71,475,000 | 952 | 793 | 0.634429259 | C8orf37 |
| 14 | 71,400,000 | 71,550,000 | 953 | 906 | -0.006289523 | C8orf37,PLEKHF2 |
| 14 | 71,475,000 | 71,625,000 | 954 | 864 | -0.825544809 | NDUFAF6,PLEKHF2 |
| 14 | 71,550,000 | 71,700,000 | 955 | 633 | -0.690799433 | NDUFAF6 |
| 14 | 71,625,000 | 71,775,000 | 956 | 528 | 0.014835684 | NDUFAF6,TP53INP1 |
| 14 | 71,700,000 | 71,850,000 | 957 | 442 | 0.569635886 | CCNE2,INTS8,TP53INP1 |
| 14 | 71,775,000 | 71,925,000 | 958 | 376 | 1.102558343 | CCNE2,DPY19L4,INTS8 |
| 14 | 71,850,000 | 72,000,000 | 959 | 294 | 0.867951066 | DPY19L4,ESRP1 |
| 14 | 71,925,000 | 72,075,000 | 960 | 376 | -0.819521534 | DPY19L4,ESRP1 |
| 14 | 72,000,000 | 72,150,000 | 961 | 478 | -0.676767799 | ESRP1,KIAA1429 |
| 14 | 72,075,000 | 72,225,000 | 962 | 503 | 0.017138842 | FSBP,KIAA1429,RAD54B |
| 14 | 72,150,000 | 72,300,000 | 963 | 631 | -0.86783739 | FSBP,KIAA1429,RAD54B |
| 14 | 72,225,000 | 72,375,000 | 964 | 565 | -0.816199587 | FSBP,RAD54B |
| 14 | 72,300,000 | 72,450,000 | 965 | 482 | 0.405897002 | CDH17,GEM |
| 14 | 72,375,000 | 72,525,000 | 966 | 762 | 0.851267163 | CDH17,GEM |
| 14 | 72,450,000 | 72,600,000 | 967 | 933 | 1.244927742 | CDH17 |
| 14 | 72,525,000 | 72,675,000 | 968 | 896 | 1.356618318 | CDH17 |
| 14 | 72,600,000 | 72,750,000 | 969 | 940 | 1.34341726 | PDP1,ENSBTAG00000045865 |
| 14 | 72,675,000 | 72,825,000 | 970 | 904 | 1.376305167 | PDP1,TMEM67,ENSBTAG00000045865 |
| 14 | 72,750,000 | 72,900,000 | 971 | 740 | 1.184826472 | FAM92A1,RBM12B,TMEM67 |
| 14 | 72,825,000 | 72,975,000 | 972 | 1140 | 0.293153819 | FAM92A1,RBM12B |
| 14 | 72,900,000 | 73,050,000 | 973 | 1646 | 0.283750608 | FAM92A1 |
| 14 | 72,975,000 | 73,125,000 | 974 | 1088 | 0.68343596 | |
| 14 | 73,050,000 | 73,200,000 | 975 | 581 | 1.298669077 | |
| 14 | 73,125,000 | 73,275,000 | 976 | 852 | 0.377916544 | |
| 14 | 73,200,000 | 73,350,000 | 977 | 1067 | 0.35412675 | |
| 14 | 73,275,000 | 73,425,000 | 978 | 983 | 0.815607131 | |
| 14 | 73,350,000 | 73,500,000 | 979 | 1007 | -0.040610795 | |
| 14 | 73,425,000 | 73,575,000 | 980 | 1061 | -0.606114208 | |
| 14 | 73,500,000 | 73,650,000 | 981 | 992 | 0.566610301 | TRIQQ |
| 14 | 73,575,000 | 73,725,000 | 982 | 926 | 0.593679523 | TRIQQ |
| 14 | 73,650,000 | 73,800,000 | 983 | 928 | -0.106211255 | TRIQQ |
| 14 | 73,725,000 | 73,875,000 | 984 | 924 | 0.237991707 | TRIQQ |
| 14 | 73,800,000 | 73,950,000 | 985 | 995 | 0.222693964 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|---------------------------------------|
| 14 | 73,875,000 | 74,025,000 | 986 | 1254 | -0.103826815 | |
| 14 | 73,950,000 | 74,100,000 | 987 | 1119 | -0.014610897 | |
| 14 | 74,025,000 | 74,175,000 | 988 | 885 | 0.05913467 | |
| 14 | 74,100,000 | 74,250,000 | 989 | 864 | -0.004284595 | |
| 14 | 74,175,000 | 74,325,000 | 990 | 945 | 0.748129391 | |
| 14 | 74,250,000 | 74,400,000 | 991 | 1295 | 0.233023986 | |
| 14 | 74,325,000 | 74,475,000 | 992 | 1397 | -0.159438 | |
| 14 | 74,400,000 | 74,550,000 | 993 | 1348 | 0.251795024 | |
| 14 | 74,475,000 | 74,625,000 | 994 | 1337 | 0.319667943 | |
| 14 | 74,550,000 | 74,700,000 | 995 | 970 | 0.296255056 | RUNX1T1 |
| 14 | 74,625,000 | 74,775,000 | 996 | 980 | -0.819604863 | RUNX1T1 |
| 14 | 74,700,000 | 74,850,000 | 997 | 1177 | -0.440928269 | RUNX1T1 |
| 14 | 74,775,000 | 74,925,000 | 998 | 1246 | 0.486402366 | RUNX1T1 |
| 14 | 74,850,000 | 75,000,000 | 999 | 1447 | 0.898013454 | |
| 14 | 74,925,000 | 75,075,000 | 1000 | 1493 | 1.016057324 | |
| 14 | 75,000,000 | 75,150,000 | 1001 | 1328 | 1.088338895 | |
| 14 | 75,075,000 | 75,225,000 | 1002 | 1223 | 1.088913098 | |
| 14 | 75,150,000 | 75,300,000 | 1003 | 1430 | 0.261875638 | |
| 14 | 75,225,000 | 75,375,000 | 1004 | 1529 | 0.210835228 | |
| 14 | 75,300,000 | 75,450,000 | 1005 | 995 | 0.690647132 | SLC26A7 |
| 14 | 75,375,000 | 75,525,000 | 1006 | 941 | -3.060335569 | SLC26A7 |
| 14 | 75,450,000 | 75,600,000 | 1007 | 1499 | -1.34966334 | LRRRC69,SLC26A7 |
| 14 | 75,525,000 | 75,675,000 | 1008 | 1622 | 1.126741377 | LRRRC69,OTUD6B,SLC26A7 |
| 14 | 75,600,000 | 75,750,000 | 1009 | 1451 | 0.927898442 | LRRRC69,OTUD6B,TMEM55A |
| 14 | 75,675,000 | 75,825,000 | 1010 | 1076 | 0.849940172 | TMEM55A |
| 14 | 75,750,000 | 75,900,000 | 1011 | 620 | 0.912218514 | TMEM55A,TMEM64 |
| 14 | 75,825,000 | 75,975,000 | 1012 | 542 | 1.073438857 | TMEM64 |
| 14 | 75,900,000 | 76,050,000 | 1013 | 766 | -1.313133774 | CALB1,DECR1,TMEM64 |
| 14 | 75,975,000 | 76,125,000 | 1014 | 730 | -2.302402957 | CALB1,DECR1,NBN |
| 14 | 76,050,000 | 76,200,000 | 1015 | 575 | -0.229217965 | DECR1,NBN,OSGIN2 |
| 14 | 76,125,000 | 76,275,000 | 1016 | 575 | 0.655941053 | NBN,OSGIN2,RIPK2 |
| 14 | 76,200,000 | 76,350,000 | 1017 | 859 | 0.565010681 | RIPK2 |
| 14 | 76,275,000 | 76,425,000 | 1018 | 1210 | 0.712643872 | |
| 14 | 76,350,000 | 76,500,000 | 1019 | 1451 | 1.000590395 | |
| 14 | 76,425,000 | 76,575,000 | 1020 | 1634 | 0.454018398 | |
| 14 | 76,500,000 | 76,650,000 | 1021 | 1481 | 0.09371506 | |
| 14 | 76,575,000 | 76,725,000 | 1022 | 1013 | 0.633218265 | |
| 14 | 76,650,000 | 76,800,000 | 1023 | 965 | 0.553113582 | MMP-16 |
| 14 | 76,725,000 | 76,875,000 | 1024 | 1059 | 0.48175404 | MMP-16,ENSBTAG00000046836 |
| 14 | 76,800,000 | 76,950,000 | 1025 | 736 | 0.247724611 | MMP-16,ENSBTAG00000046836 |
| 14 | 76,875,000 | 77,025,000 | 1026 | 486 | -0.083383328 | MMP-16 |
| 14 | 76,950,000 | 77,100,000 | 1027 | 746 | 0.125872088 | MMP-16 |
| 14 | 77,025,000 | 77,175,000 | 1028 | 786 | 0.436146347 | MMP-16 |
| 14 | 77,100,000 | 77,250,000 | 1029 | 658 | 0.299729028 | MMP-16 |
| 14 | 77,175,000 | 77,325,000 | 1030 | 952 | 0.453419975 | ENSBTAG00000007302 |
| 14 | 77,250,000 | 77,400,000 | 1031 | 1044 | 0.283879626 | ENSBTAG00000007302,ENSBTAG00000048317 |
| 14 | 77,325,000 | 77,475,000 | 1032 | 977 | -1.712613624 | ENSBTAG00000048317 |
| 14 | 77,400,000 | 77,550,000 | 1033 | 1095 | -1.278152622 | |
| 14 | 77,475,000 | 77,625,000 | 1034 | 1301 | 0.572070332 | |
| 14 | 77,550,000 | 77,700,000 | 1035 | 1276 | 0.936775944 | |
| 14 | 77,625,000 | 77,775,000 | 1036 | 1123 | 0.072813082 | |
| 14 | 77,700,000 | 77,850,000 | 1037 | 1268 | -2.391591809 | |
| 14 | 77,775,000 | 77,925,000 | 1038 | 1281 | -1.817870851 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 14 | 77,850,000 | 78,000,000 | 1039 | 1219 | -0.109701572 | |
| 14 | 77,925,000 | 78,075,000 | 1040 | 1254 | 0.352578026 | |
| 14 | 78,000,000 | 78,150,000 | 1041 | 893 | 0.368200539 | |
| 14 | 78,075,000 | 78,225,000 | 1042 | 517 | 0.205634867 | |
| 14 | 78,150,000 | 78,300,000 | 1043 | 985 | 0.680528632 | |
| 14 | 78,225,000 | 78,375,000 | 1044 | 1514 | -0.140112419 | |
| 14 | 78,300,000 | 78,450,000 | 1045 | 1262 | -1.054975208 | CNGB3 |
| 14 | 78,375,000 | 78,525,000 | 1046 | 1277 | 0.365150288 | CNGB3,CPNE3 |
| 14 | 78,450,000 | 78,600,000 | 1047 | 1321 | 1.104792564 | CNGB3,CPNE3,RMDN1,WWP1 |
| 14 | 78,525,000 | 78,675,000 | 1048 | 1217 | 1.1118959 | CPNE3,RMDN1,WWP1,ENSBTAG00000032233 |
| 14 | 78,600,000 | 78,750,000 | 1049 | 1152 | 1.094581955 | WWP1,ENSBTAG00000032233 |
| 14 | 78,675,000 | 78,825,000 | 1050 | 1097 | 1.060486053 | WWP1 |
| 14 | 78,750,000 | 78,900,000 | 1051 | 1040 | 0.570744817 | |
| 14 | 78,825,000 | 78,975,000 | 1052 | 866 | -0.169538147 | ATP6V0D2 |
| 14 | 78,900,000 | 79,050,000 | 1053 | 936 | -0.485561932 | ATP6V0D2 |
| 14 | 78,975,000 | 79,125,000 | 1054 | 740 | -0.633571566 | |
| 14 | 79,050,000 | 79,200,000 | 1055 | 689 | 0.096755337 | |
| 14 | 79,125,000 | 79,275,000 | 1056 | 991 | 0.366434894 | |
| 14 | 79,200,000 | 79,350,000 | 1057 | 1204 | 0.662588422 | ENSBTAG00000002851,ENSBTAG00000046121 |
| 14 | 79,275,000 | 79,425,000 | 1058 | 1034 | 0.716294175 | CA2,CA3,ENSBTAG00000002851,ENSBTAG00000046121 |
| 14 | 79,350,000 | 79,500,000 | 1059 | 997 | 0.566849127 | CA2,CA3 |
| 14 | 79,425,000 | 79,575,000 | 1060 | 1154 | 0.411714195 | CA1,ENSBTAG00000036116 |
| 14 | 79,500,000 | 79,650,000 | 1061 | 992 | 0.286321333 | CA1,ENSBTAG00000036116 |
| 14 | 79,575,000 | 79,725,000 | 1062 | 838 | 0.535385481 | CA13,ENSBTAG00000036116 |
| 14 | 79,650,000 | 79,800,000 | 1063 | 776 | 0.328327517 | CA13,E2F5,ENSBTAG00000032227 |
| 14 | 79,725,000 | 79,875,000 | 1064 | 972 | 0.505481908 | CA13,E2F5,LRRCC1,ENSBTAG00000032227,ENSBTAG00000040461 |
| 14 | 79,800,000 | 79,950,000 | 1065 | 1132 | 0.530151262 | LRRCC1,ENSBTAG00000038798,ENSBTAG00000040461 |
| 14 | 79,875,000 | 80,025,000 | 1066 | 1181 | 0.135902122 | ENSBTAG00000038798,ENSBTAG00000040461 |
| 14 | 79,950,000 | 80,100,000 | 1067 | 1097 | 0.484967034 | RALYL |
| 14 | 80,025,000 | 80,175,000 | 1068 | 1016 | 0.491591931 | RALYL |
| 14 | 80,100,000 | 80,250,000 | 1069 | 1491 | 0.494756596 | RALYL |
| 14 | 80,175,000 | 80,325,000 | 1070 | 1814 | 0.864302494 | RALYL |
| 14 | 80,250,000 | 80,400,000 | 1071 | 1788 | 1.05278828 | RALYL |
| 14 | 80,325,000 | 80,475,000 | 1072 | 1676 | 1.039619356 | |
| 14 | 80,400,000 | 80,550,000 | 1073 | 1508 | 0.199797519 | |
| 14 | 80,475,000 | 80,625,000 | 1074 | 1624 | 0.445902892 | |
| 14 | 80,550,000 | 80,700,000 | 1075 | 1519 | 0.820390122 | |
| 14 | 80,625,000 | 80,775,000 | 1076 | 1157 | -0.850239004 | |
| 14 | 80,700,000 | 80,850,000 | 1077 | 1065 | -1.131346638 | |
| 14 | 80,775,000 | 80,925,000 | 1078 | 1204 | -0.048910596 | |
| 14 | 80,850,000 | 81,000,000 | 1079 | 1259 | -0.312749326 | |
| 14 | 80,925,000 | 81,075,000 | 1080 | 1237 | -0.951487226 | |
| 14 | 81,000,000 | 81,150,000 | 1081 | 1245 | -0.035615517 | |
| 14 | 81,075,000 | 81,225,000 | 1082 | 1063 | 0.671855878 | |
| 14 | 81,150,000 | 81,300,000 | 1083 | 716 | 0.308002858 | |
| 14 | 81,225,000 | 81,375,000 | 1084 | 581 | 0.374193388 | |
| 14 | 81,300,000 | 81,450,000 | 1085 | 1036 | 0.633524591 | |
| 14 | 81,375,000 | 81,525,000 | 1086 | 1408 | 0.178017631 | |
| 14 | 81,450,000 | 81,600,000 | 1087 | 1330 | 0.004650496 | |
| 14 | 81,525,000 | 81,675,000 | 1088 | 1416 | 0.528278742 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 14 | 81,600,000 | 81,750,000 | 1089 | 1390 | 0.443147908 | |
| 14 | 81,675,000 | 81,825,000 | 1090 | 1113 | -0.159199244 | |
| 14 | 81,750,000 | 81,900,000 | 1091 | 1001 | -0.764635054 | |
| 14 | 81,825,000 | 81,975,000 | 1092 | 1158 | -0.720284263 | |
| 14 | 81,900,000 | 82,050,000 | 1093 | 1386 | -2.645696001 | |
| 14 | 81,975,000 | 82,125,000 | 1094 | 1134 | -2.83334615 | |
| 14 | 82,050,000 | 82,200,000 | 1095 | 1059 | -1.610467774 | |
| 14 | 82,125,000 | 82,275,000 | 1096 | 1238 | -0.729837199 | |
| 14 | 82,200,000 | 82,350,000 | 1097 | 1315 | -0.436167294 | |
| 14 | 82,275,000 | 82,425,000 | 1098 | 1500 | -0.606733961 | |
| 14 | 82,350,000 | 82,500,000 | 1099 | 1744 | 0.597865449 | |
| 14 | 82,425,000 | 82,575,000 | 1100 | 1686 | 0.416943723 | |
| 14 | 82,500,000 | 82,650,000 | 1101 | 1275 | -1.137197044 | |
| 14 | 82,575,000 | 82,725,000 | 1102 | 955 | -0.946693262 | |
| 14 | 82,650,000 | 82,800,000 | 1103 | 648 | 0.674476181 | |
| 14 | 82,725,000 | 82,875,000 | 1104 | 948 | 0.025151686 | |
| 14 | 82,800,000 | 82,950,000 | 1105 | 1055 | -1.07258266 | |
| 14 | 82,875,000 | 83,025,000 | 1106 | 508 | -1.886658818 | |
| 14 | 82,950,000 | 83,100,000 | 1107 | 630 | 0.553210967 | |
| 14 | 83,025,000 | 83,175,000 | 1108 | 893 | 0.46573277 | SNX16 |
| 14 | 83,100,000 | 83,250,000 | 1109 | 890 | 0.104203054 | CHMP4C,SNX16,ZFAND1 |
| 14 | 83,175,000 | 83,325,000 | 1110 | 718 | -0.247652772 | CHMP4C,IMPA1,SLC10A5,SNX16,ZFAND1 |
| 14 | 83,250,000 | 83,400,000 | 1111 | 423 | -1.095111604 | ENPP2,IMPA1,SLC10A5,ZFAND1 |
| 14 | 83,325,000 | 83,475,000 | 1112 | 335 | -0.502862668 | ENPP2 |
| 14 | 83,400,000 | 83,550,000 | 1113 | 305 | -0.580245826 | ENPP2 |
| 14 | 83,475,000 | 83,625,000 | 1114 | 425 | -2.549989678 | TAF2 |
| 14 | 83,550,000 | 83,700,000 | 1115 | 723 | -1.883796773 | DEPTOR,DSCC1,TAF2 |
| 14 | 83,625,000 | 83,775,000 | 1116 | 1093 | -0.484904244 | DEPTOR,DSCC1,TAF2 |
| 14 | 83,700,000 | 83,850,000 | 1117 | 1526 | -1.036553952 | DEPTOR |
| 14 | 83,775,000 | 83,925,000 | 1118 | 1279 | -1.339154346 | COL14A1,DEPTOR |
| 14 | 83,850,000 | 84,000,000 | 1119 | 1074 | 0.509674602 | COL14A1 |
| 14 | 83,925,000 | 84,075,000 | 1120 | 1214 | 0.487060682 | COL14A1 |
| 14 | 84,000,000 | 84,150,000 | 1121 | 1179 | -1.041237829 | COL14A1,MRPL13 |
| 14 | 84,075,000 | 84,225,000 | 1122 | 1042 | -1.275698227 | COL14A1,MRPL13,MTBP |
| 14 | 84,150,000 | 84,300,000 | 1123 | 982 | 0.788213012 | MRPL13,MTBP,SNTB1 |
| 14 | 84,225,000 | 84,375,000 | 1124 | 1456 | 0.613466476 | MTBP,SNTB1 |
| 14 | 84,300,000 | 84,450,000 | 1125 | 1453 | -0.22749786 | SNTB1 |
| 14 | 84,375,000 | 84,525,000 | 1126 | 1040 | -0.654691525 | SNTB1 |
| 14 | 84,450,000 | 84,600,000 | 1127 | 830 | -1.037306978 | SNTB1 |
| 14 | 84,525,000 | 84,648,390 | 1128 | 652 | -1.438257893 | |
| 15 | 0 | 150,000 | 1 | 492 | -1.492111612 | |
| 15 | 75,000 | 225,000 | 2 | 699 | -0.750160895 | ENSBTAG00000038319,ENSBTAG00000046228 |
| 15 | 150,000 | 300,000 | 3 | 647 | -0.664846067 | ENSBTAG00000038319,ENSBTAG00000045558,ENSBTAG00000046228 |
| 15 | 225,000 | 375,000 | 4 | 370 | -0.960691805 | ENSBTAG00000040008,ENSBTAG00000045558 |
| 15 | 300,000 | 450,000 | 5 | 390 | -1.034632591 | ENSBTAG00000040008,ENSBTAG00000048221 |
| 15 | 375,000 | 525,000 | 6 | 380 | -1.106923858 | ENSBTAG00000048221 |
| 15 | 450,000 | 600,000 | 7 | 475 | -0.380680257 | OR9G1 |
| 15 | 525,000 | 675,000 | 8 | 829 | 0.389703551 | OR9G1 |
| 15 | 600,000 | 750,000 | 9 | 791 | 0.406790845 | |
| 15 | 675,000 | 825,000 | 10 | 451 | 0.14473296 | ENSBTAG00000045790,ENSBTAG00000046028 |
| 15 | 750,000 | 900,000 | 11 | 380 | -0.34765423 | ENSBTAG00000045790,ENSBTAG00000046028 |
| 15 | 825,000 | 975,000 | 12 | 582 | -1.257073194 | ENSBTAG00000003930,ENSBTAG00000016807 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 15 | 900,000 | 1,050,000 | 13 | 605 | -1.180726986 | ENSBTAG00000003930,ENSBTAG00000016807 |
| 15 | 975,000 | 1,125,000 | 14 | 690 | 0.137308191 | ENSBTAG00000013156 |
| 15 | 1,050,000 | 1,200,000 | 15 | 1071 | 0.392972132 | ENSBTAG00000003023,ENSBTAG00000013156,ENSBTAG00000047007 |
| 15 | 1,125,000 | 1,275,000 | 16 | 1403 | 0.212711228 | ENSBTAG00000003023,ENSBTAG00000036025,ENSBTAG00000047007 |
| 15 | 1,200,000 | 1,350,000 | 17 | 1551 | -1.164543505 | ENSBTAG00000036025,ENSBTAG00000046387 |
| 15 | 1,275,000 | 1,425,000 | 18 | 1170 | -1.533607453 | ENSBTAG00000046387 |
| 15 | 1,350,000 | 1,500,000 | 19 | 1032 | 0.2847012 | |
| 15 | 1,425,000 | 1,575,000 | 20 | 772 | 0.343884069 | |
| 15 | 1,500,000 | 1,650,000 | 21 | 480 | -0.578876747 | GPR83,MRE11A |
| 15 | 1,575,000 | 1,725,000 | 22 | 508 | -1.160037219 | GPR83,MRE11A |
| 15 | 1,650,000 | 1,800,000 | 23 | 458 | -0.59647608 | AASDHPPT,ANKRD49,MRE11A |
| 15 | 1,725,000 | 1,875,000 | 24 | 536 | -0.100009142 | AASDHPPT,ANKRD49,KBTBD3 |
| 15 | 1,800,000 | 1,950,000 | 25 | 534 | -0.455271772 | AASDHPPT,KBTBD3 |
| 15 | 1,875,000 | 2,025,000 | 26 | 463 | -0.236304814 | KBTBD3,MSANTD4 |
| 15 | 1,950,000 | 2,100,000 | 27 | 433 | -0.050653597 | GRIA4,MSANTD4 |
| 15 | 2,025,000 | 2,175,000 | 28 | 514 | -0.046977261 | GRIA4 |
| 15 | 2,100,000 | 2,250,000 | 29 | 587 | 0.428239589 | GRIA4 |
| 15 | 2,175,000 | 2,325,000 | 30 | 628 | 0.831607472 | |
| 15 | 2,250,000 | 2,400,000 | 31 | 892 | 0.854004577 | |
| 15 | 2,325,000 | 2,475,000 | 32 | 1189 | 1.016622882 | ENSBTAG00000024639 |
| 15 | 2,400,000 | 2,550,000 | 33 | 1394 | 0.994786772 | ENSBTAG00000024639 |
| 15 | 2,475,000 | 2,625,000 | 34 | 1677 | 0.081736111 | |
| 15 | 2,550,000 | 2,700,000 | 35 | 1756 | -0.297865366 | |
| 15 | 2,625,000 | 2,775,000 | 36 | 1554 | 0.780844508 | |
| 15 | 2,700,000 | 2,850,000 | 37 | 1499 | 1.164234166 | |
| 15 | 2,775,000 | 2,925,000 | 38 | 1127 | 0.768831971 | |
| 15 | 2,850,000 | 3,000,000 | 39 | 1107 | -1.102042941 | |
| 15 | 2,925,000 | 3,075,000 | 40 | 1507 | -0.498443908 | |
| 15 | 3,000,000 | 3,150,000 | 41 | 1046 | 0.525365387 | |
| 15 | 3,075,000 | 3,225,000 | 42 | 619 | 0.192206291 | |
| 15 | 3,150,000 | 3,300,000 | 43 | 1316 | -2.405451552 | |
| 15 | 3,225,000 | 3,375,000 | 44 | 1448 | -2.517193818 | |
| 15 | 3,300,000 | 3,450,000 | 45 | 820 | -1.101091728 | |
| 15 | 3,375,000 | 3,525,000 | 46 | 622 | -1.169565236 | CASP13 |
| 15 | 3,450,000 | 3,600,000 | 47 | 869 | -0.636205146 | CASP13 |
| 15 | 3,525,000 | 3,675,000 | 48 | 1541 | -0.863856357 | |
| 15 | 3,600,000 | 3,750,000 | 49 | 1450 | -0.404781337 | ENSBTAG00000006093 |
| 15 | 3,675,000 | 3,825,000 | 50 | 1334 | 0.154994516 | ENSBTAG00000006093 |
| 15 | 3,750,000 | 3,900,000 | 51 | 1615 | 0.458477744 | |
| 15 | 3,825,000 | 3,975,000 | 52 | 1629 | 0.892533532 | |
| 15 | 3,900,000 | 4,050,000 | 53 | 1671 | 0.892487276 | |
| 15 | 3,975,000 | 4,125,000 | 54 | 1582 | 0.91604219 | |
| 15 | 4,050,000 | 4,200,000 | 55 | 1442 | 0.73896402 | |
| 15 | 4,125,000 | 4,275,000 | 56 | 1495 | 0.16781936 | |
| 15 | 4,200,000 | 4,350,000 | 57 | 1115 | -0.18624543 | |
| 15 | 4,275,000 | 4,425,000 | 58 | 898 | 0.465893413 | |
| 15 | 4,350,000 | 4,500,000 | 59 | 1069 | 1.017185795 | |
| 15 | 4,425,000 | 4,575,000 | 60 | 935 | 0.623553943 | PDGFD |
| 15 | 4,500,000 | 4,650,000 | 61 | 924 | -0.49680747 | DDI1,PDGFD |
| 15 | 4,575,000 | 4,725,000 | 62 | 1142 | 0.475489166 | DDI1,PDGFD |
| 15 | 4,650,000 | 4,800,000 | 63 | 962 | 0.931063422 | PDGFD |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 15 | 4,725,000 | 4,875,000 | 64 | 738 | 0.50587795 | PDGFD |
| 15 | 4,800,000 | 4,950,000 | 65 | 968 | -0.72590274 | |
| 15 | 4,875,000 | 5,025,000 | 66 | 1260 | -1.728981848 | |
| 15 | 4,950,000 | 5,100,000 | 67 | 1232 | -1.555062727 | |
| 15 | 5,025,000 | 5,175,000 | 68 | 1135 | 0.148448019 | |
| 15 | 5,100,000 | 5,250,000 | 69 | 1131 | -0.024384995 | |
| 15 | 5,175,000 | 5,325,000 | 70 | 1409 | 0.07340782 | ENSBTAG00000047461 |
| 15 | 5,250,000 | 5,400,000 | 71 | 1886 | 0.807446954 | ENSBTAG00000047461 |
| 15 | 5,325,000 | 5,475,000 | 72 | 1535 | 0.640009133 | ENSBTAG00000047461 |
| 15 | 5,400,000 | 5,550,000 | 73 | 1030 | 0.002140158 | ENSBTAG00000047461 |
| 15 | 5,475,000 | 5,625,000 | 74 | 1344 | 0.115391778 | |
| 15 | 5,550,000 | 5,700,000 | 75 | 1331 | 0.519582271 | ENSBTAG00000019309 |
| 15 | 5,625,000 | 5,775,000 | 76 | 858 | 1.020080352 | DCUN1D5,ENSBTAG00000019309 |
| 15 | 5,700,000 | 5,850,000 | 77 | 739 | 1.025616205 | DCUN1D5 |
| 15 | 5,775,000 | 5,925,000 | 78 | 798 | 0.266047095 | MMP13 |
| 15 | 5,850,000 | 6,000,000 | 79 | 1193 | 0.469210856 | MMP13 |
| 15 | 5,925,000 | 6,075,000 | 80 | 1700 | 1.024106894 | ENSBTAG00000037768 |
| 15 | 6,000,000 | 6,150,000 | 81 | 1668 | 0.971119435 | MMP1,ENSBTAG00000020007,ENSBTAG00000037768 |
| 15 | 6,075,000 | 6,225,000 | 82 | 1643 | 0.836120522 | MMP1,MMP27,MMP8,ENSBTAG00000020007 |
| 15 | 6,150,000 | 6,300,000 | 83 | 1305 | 0.91930112 | MMP20,MMP27,MMP8,ENSBTAG00000020007 |
| 15 | 6,225,000 | 6,375,000 | 84 | 1133 | 0.839483159 | MMP20 |
| 15 | 6,300,000 | 6,450,000 | 85 | 1402 | 0.892699327 | MMP20,MMP7 |
| 15 | 6,375,000 | 6,525,000 | 86 | 1096 | 0.699968144 | MMP7 |
| 15 | 6,450,000 | 6,600,000 | 87 | 807 | 0.047162557 | BIRC2 |
| 15 | 6,525,000 | 6,675,000 | 88 | 829 | -0.202659337 | BIRC2,BIRC3 |
| 15 | 6,600,000 | 6,750,000 | 89 | 993 | -0.044331233 | BIRC2,BIRC3,ENSBTAG00000047406 |
| 15 | 6,675,000 | 6,825,000 | 90 | 1024 | -1.268449069 | ENSBTAG00000039307,ENSBTAG00000047406 |
| 15 | 6,750,000 | 6,900,000 | 91 | 828 | -2.58398594 | ENSBTAG00000039307,ENSBTAG00000047406 |
| 15 | 6,825,000 | 6,975,000 | 92 | 565 | -1.444730012 | ENSBTAG00000015309,ENSBTAG00000047406 |
| 15 | 6,900,000 | 7,050,000 | 93 | 415 | 0.842908208 | KIAA1377,ENSBTAG00000015309 |
| 15 | 6,975,000 | 7,125,000 | 94 | 354 | -0.24544487 | KIAA1377 |
| 15 | 7,050,000 | 7,200,000 | 95 | 596 | -0.467287191 | ANGPTL5,KIAA1377 |
| 15 | 7,125,000 | 7,275,000 | 96 | 992 | -0.924830487 | ANGPTL5 |
| 15 | 7,200,000 | 7,350,000 | 97 | 1115 | -0.517695523 | |
| 15 | 7,275,000 | 7,425,000 | 98 | 929 | 0.241791154 | |
| 15 | 7,350,000 | 7,500,000 | 99 | 990 | 0.769010816 | |
| 15 | 7,425,000 | 7,575,000 | 100 | 1135 | 0.403746034 | |
| 15 | 7,500,000 | 7,650,000 | 101 | 876 | -0.332739211 | |
| 15 | 7,575,000 | 7,725,000 | 102 | 754 | -1.137856711 | TRPC6 |
| 15 | 7,650,000 | 7,800,000 | 103 | 981 | -0.970870127 | TRPC6 |
| 15 | 7,725,000 | 7,875,000 | 104 | 1142 | -0.163722315 | |
| 15 | 7,800,000 | 7,950,000 | 105 | 1175 | -0.07630874 | |
| 15 | 7,875,000 | 8,025,000 | 106 | 1016 | 0.818560658 | |
| 15 | 7,950,000 | 8,100,000 | 107 | 1069 | 0.533204369 | |
| 15 | 8,025,000 | 8,175,000 | 108 | 1382 | 0.213609458 | PGR |
| 15 | 8,100,000 | 8,250,000 | 109 | 1424 | 0.249282716 | PGR |
| 15 | 8,175,000 | 8,325,000 | 110 | 1434 | 0.063124799 | FLJ32810,PGR |
| 15 | 8,250,000 | 8,400,000 | 111 | 1553 | -0.325954069 | FLJ32810 |
| 15 | 8,325,000 | 8,475,000 | 112 | 1332 | -0.418641357 | FLJ32810 |
| 15 | 8,400,000 | 8,550,000 | 113 | 837 | -0.235865457 | |
| 15 | 8,475,000 | 8,625,000 | 114 | 974 | 0.440298102 | |
| 15 | 8,550,000 | 8,700,000 | 115 | 1002 | 0.607679579 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 15 | 8,625,000 | 8,775,000 | 116 | 671 | 0.396236642 | |
| 15 | 8,700,000 | 8,850,000 | 117 | 832 | -0.337001986 | |
| 15 | 8,775,000 | 8,925,000 | 118 | 1147 | 0.218063825 | ENSBTAG00000047425 |
| 15 | 8,850,000 | 9,000,000 | 119 | 1338 | 0.408612718 | ENSBTAG00000047425 |
| 15 | 8,925,000 | 9,075,000 | 120 | 1234 | -1.15966422 | |
| 15 | 9,000,000 | 9,150,000 | 121 | 1333 | -1.267083894 | |
| 15 | 9,075,000 | 9,225,000 | 122 | 1575 | -0.159909151 | |
| 15 | 9,150,000 | 9,300,000 | 123 | 1439 | 0.307525713 | |
| 15 | 9,225,000 | 9,375,000 | 124 | 1568 | 0.332990498 | |
| 15 | 9,300,000 | 9,450,000 | 125 | 1912 | 0.54079943 | |
| 15 | 9,375,000 | 9,525,000 | 126 | 1761 | 0.958143583 | |
| 15 | 9,450,000 | 9,600,000 | 127 | 1800 | 0.957532799 | |
| 15 | 9,525,000 | 9,675,000 | 128 | 1727 | 0.590261663 | CNTN5 |
| 15 | 9,600,000 | 9,750,000 | 129 | 1104 | 0.416749633 | CNTN5 |
| 15 | 9,675,000 | 9,825,000 | 130 | 938 | -0.272049722 | CNTN5 |
| 15 | 9,750,000 | 9,900,000 | 131 | 1143 | -2.190475062 | |
| 15 | 9,825,000 | 9,975,000 | 132 | 1092 | -2.067248682 | |
| 15 | 9,900,000 | 10,050,000 | 133 | 1096 | 0.400891703 | |
| 15 | 9,975,000 | 10,125,000 | 134 | 1064 | 0.694618415 | |
| 15 | 10,050,000 | 10,200,000 | 135 | 1272 | 1.349536098 | |
| 15 | 10,125,000 | 10,275,000 | 136 | 1848 | 1.358079867 | |
| 15 | 10,200,000 | 10,350,000 | 137 | 1805 | 1.239795061 | |
| 15 | 10,275,000 | 10,425,000 | 138 | 1587 | 1.22057671 | |
| 15 | 10,350,000 | 10,500,000 | 139 | 1143 | 1.193149894 | |
| 15 | 10,425,000 | 10,575,000 | 140 | 796 | 0.589708243 | |
| 15 | 10,500,000 | 10,650,000 | 141 | 834 | 0.701136816 | |
| 15 | 10,575,000 | 10,725,000 | 142 | 763 | 0.951315199 | |
| 15 | 10,650,000 | 10,800,000 | 143 | 633 | 0.363412569 | |
| 15 | 10,725,000 | 10,875,000 | 144 | 509 | -0.421255457 | |
| 15 | 10,800,000 | 10,950,000 | 145 | 589 | -0.152175947 | |
| 15 | 10,875,000 | 11,025,000 | 146 | 695 | -0.061157674 | |
| 15 | 10,950,000 | 11,100,000 | 147 | 814 | -0.465379714 | |
| 15 | 11,025,000 | 11,175,000 | 148 | 1204 | -1.524382162 | |
| 15 | 11,100,000 | 11,250,000 | 149 | 1195 | -1.248682103 | |
| 15 | 11,175,000 | 11,325,000 | 150 | 907 | 0.178860352 | |
| 15 | 11,250,000 | 11,400,000 | 151 | 658 | 0.829658489 | |
| 15 | 11,325,000 | 11,475,000 | 152 | 710 | 1.110644715 | |
| 15 | 11,400,000 | 11,550,000 | 153 | 1556 | 0.942383936 | |
| 15 | 11,475,000 | 11,625,000 | 154 | 1819 | 0.421153591 | |
| 15 | 11,550,000 | 11,700,000 | 155 | 1339 | 0.332123304 | |
| 15 | 11,625,000 | 11,775,000 | 156 | 917 | 0.757931913 | |
| 15 | 11,700,000 | 11,850,000 | 157 | 656 | 0.625757459 | |
| 15 | 11,775,000 | 11,925,000 | 158 | 713 | 0.937354344 | |
| 15 | 11,850,000 | 12,000,000 | 159 | 752 | 1.053561872 | |
| 15 | 11,925,000 | 12,075,000 | 160 | 890 | -5.063960095 | |
| 15 | 12,000,000 | 12,150,000 | 161 | 1391 | -6.352483271 | |
| 15 | 12,075,000 | 12,225,000 | 162 | 1197 | -5.199894309 | |
| 15 | 12,150,000 | 12,300,000 | 163 | 557 | -2.179406217 | |
| 15 | 12,225,000 | 12,375,000 | 164 | 448 | -1.321947076 | |
| 15 | 12,300,000 | 12,450,000 | 165 | 460 | -2.478389709 | |
| 15 | 12,375,000 | 12,525,000 | 166 | 581 | -1.875357654 | |
| 15 | 12,450,000 | 12,600,000 | 167 | 1042 | -1.687397886 | |
| 15 | 12,525,000 | 12,675,000 | 168 | 1028 | -0.664895346 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 15 | 12,600,000 | 12,750,000 | 169 | 681 | -0.517490577 | |
| 15 | 12,675,000 | 12,825,000 | 170 | 1046 | -0.732012966 | |
| 15 | 12,750,000 | 12,900,000 | 171 | 1085 | -0.172121972 | |
| 15 | 12,825,000 | 12,975,000 | 172 | 749 | 0.606929984 | |
| 15 | 12,900,000 | 13,050,000 | 173 | 801 | 0.600577688 | |
| 15 | 12,975,000 | 13,125,000 | 174 | 788 | -0.22527986 | |
| 15 | 13,050,000 | 13,200,000 | 175 | 625 | -0.314395441 | |
| 15 | 13,125,000 | 13,275,000 | 176 | 749 | 0.285628823 | |
| 15 | 13,200,000 | 13,350,000 | 177 | 1084 | 0.503058214 | |
| 15 | 13,275,000 | 13,425,000 | 178 | 1272 | -1.855870281 | |
| 15 | 13,350,000 | 13,500,000 | 179 | 1379 | -2.330076078 | |
| 15 | 13,425,000 | 13,575,000 | 180 | 1726 | 0.389945667 | |
| 15 | 13,500,000 | 13,650,000 | 181 | 2053 | 0.361717306 | ENSBTAG00000034724 |
| 15 | 13,575,000 | 13,725,000 | 182 | 1721 | -0.062344858 | ENSBTAG00000034724 |
| 15 | 13,650,000 | 13,800,000 | 183 | 1653 | 0.280500587 | |
| 15 | 13,725,000 | 13,875,000 | 184 | 1360 | 0.201351987 | |
| 15 | 13,800,000 | 13,950,000 | 185 | 1155 | 0.403646311 | |
| 15 | 13,875,000 | 14,025,000 | 186 | 1683 | 0.9520774 | |
| 15 | 13,950,000 | 14,100,000 | 187 | 1493 | 0.04693956 | |
| 15 | 14,025,000 | 14,175,000 | 188 | 1047 | -1.034506309 | CCDC82,JRKL |
| 15 | 14,100,000 | 14,250,000 | 189 | 904 | -0.359622228 | CCDC82,JRKL |
| 15 | 14,175,000 | 14,325,000 | 190 | 746 | -0.886858423 | |
| 15 | 14,250,000 | 14,400,000 | 191 | 701 | -0.666098253 | |
| 15 | 14,325,000 | 14,475,000 | 192 | 999 | 0.203964846 | MAML2 |
| 15 | 14,400,000 | 14,550,000 | 193 | 1394 | 0.01394683 | MAML2 |
| 15 | 14,475,000 | 14,625,000 | 194 | 1418 | 0.181571788 | MAML2 |
| 15 | 14,550,000 | 14,700,000 | 195 | 1372 | 1.070291271 | MAML2,MTMR2 |
| 15 | 14,625,000 | 14,775,000 | 196 | 1508 | 0.337869409 | CEP57,FAM76B,MTMR2 |
| 15 | 14,700,000 | 14,850,000 | 197 | 1477 | 0.193126139 | CEP57,FAM76B,MTMR2 |
| 15 | 14,775,000 | 14,925,000 | 198 | 1210 | 0.669254262 | FAM76B |
| 15 | 14,850,000 | 15,000,000 | 199 | 1034 | 0.372134837 | |
| 15 | 14,925,000 | 15,075,000 | 200 | 1049 | 0.259318885 | |
| 15 | 15,000,000 | 15,150,000 | 201 | 1062 | -0.76884366 | |
| 15 | 15,075,000 | 15,225,000 | 202 | 989 | -2.657174082 | |
| 15 | 15,150,000 | 15,300,000 | 203 | 822 | -3.208679924 | |
| 15 | 15,225,000 | 15,375,000 | 204 | 766 | -1.737341932 | |
| 15 | 15,300,000 | 15,450,000 | 205 | 651 | -0.442899588 | |
| 15 | 15,375,000 | 15,525,000 | 206 | 390 | 0.71939615 | SESN3 |
| 15 | 15,450,000 | 15,600,000 | 207 | 851 | 1.132005217 | ENDOD1,SESN3 |
| 15 | 15,525,000 | 15,675,000 | 208 | 1409 | 1.094476737 | ENDOD1,ENSBTAG00000001704 |
| 15 | 15,600,000 | 15,750,000 | 209 | 1019 | 0.784141563 | CWC15,ENDOD1,ENSBTAG00000001704 |
| 15 | 15,675,000 | 15,825,000 | 210 | 796 | 0.294307528 | AMOTL1,CWC15,ENSBTAG00000001704 |
| 15 | 15,750,000 | 15,900,000 | 211 | 674 | 0.265325097 | AMOTL1 |
| 15 | 15,825,000 | 15,975,000 | 212 | 695 | 0.250955731 | AMOTL1 |
| 15 | 15,900,000 | 16,050,000 | 213 | 986 | 0.341547556 | |
| 15 | 15,975,000 | 16,125,000 | 214 | 1181 | 0.883884796 | PIWIL4 |
| 15 | 16,050,000 | 16,200,000 | 215 | 1807 | 0.708085369 | PIWIL4 |
| 15 | 16,125,000 | 16,275,000 | 216 | 1855 | 0.572908374 | FUT4,MGC137061,PIWIL4 |
| 15 | 16,200,000 | 16,350,000 | 217 | 1657 | -0.376633673 | CWF19L2,FUT4,MGC137061 |
| 15 | 16,275,000 | 16,425,000 | 218 | 1746 | -1.110558793 | CWF19L2,MGC137061 |
| 15 | 16,350,000 | 16,500,000 | 219 | 1663 | -1.036905455 | CWF19L2 |
| 15 | 16,425,000 | 16,575,000 | 220 | 1479 | -0.642748555 | CWF19L2 |
| 15 | 16,500,000 | 16,650,000 | 221 | 1058 | -0.327788566 | GUCY1A2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 15 | 16,575,000 | 16,725,000 | 222 | 1189 | 0.006722148 | GUCY1A2 |
| 15 | 16,650,000 | 16,800,000 | 223 | 1052 | 0.423354378 | GUCY1A2 |
| 15 | 16,725,000 | 16,875,000 | 224 | 594 | 0.928604038 | GUCY1A2 |
| 15 | 16,800,000 | 16,950,000 | 225 | 1408 | 1.15472017 | GUCY1A2 |
| 15 | 16,875,000 | 17,025,000 | 226 | 1750 | 1.112794969 | GUCY1A2 |
| 15 | 16,950,000 | 17,100,000 | 227 | 846 | 0.91782236 | GUCY1A2 |
| 15 | 17,025,000 | 17,175,000 | 228 | 423 | 0.492089771 | GUCY1A2 |
| 15 | 17,100,000 | 17,250,000 | 229 | 444 | 0.451815041 | ALKBH8,GUCY1A2 |
| 15 | 17,175,000 | 17,325,000 | 230 | 430 | -0.236226564 | ALKBH8 |
| 15 | 17,250,000 | 17,400,000 | 231 | 371 | 0.02457918 | ALKBH8,ELMOD1 |
| 15 | 17,325,000 | 17,475,000 | 232 | 597 | 0.954423972 | ELMOD1 |
| 15 | 17,400,000 | 17,550,000 | 233 | 1449 | 0.42099569 | ELMOD1 |
| 15 | 17,475,000 | 17,625,000 | 234 | 1501 | -0.075235668 | |
| 15 | 17,550,000 | 17,700,000 | 235 | 1037 | -0.902967376 | ENSBTAG00000003661 |
| 15 | 17,625,000 | 17,775,000 | 236 | 1169 | -0.415443687 | RAB39,ENSBTAG00000003661 |
| 15 | 17,700,000 | 17,850,000 | 237 | 1081 | 0.17815789 | RAB39 |
| 15 | 17,775,000 | 17,925,000 | 238 | 722 | 0.006667747 | CUL5,RAB39 |
| 15 | 17,850,000 | 18,000,000 | 239 | 482 | 0.511868154 | ACAT1,CUL5 |
| 15 | 17,925,000 | 18,075,000 | 240 | 531 | 0.034904559 | ACAT1,CUL5,NPAT |
| 15 | 18,000,000 | 18,150,000 | 241 | 694 | 0.17284904 | ACAT1,ATM,NPAT |
| 15 | 18,075,000 | 18,225,000 | 242 | 947 | 0.217947943 | ATM,NPAT |
| 15 | 18,150,000 | 18,300,000 | 243 | 1169 | 0.008288751 | ATM |
| 15 | 18,225,000 | 18,375,000 | 244 | 1431 | 0.800424069 | ATM |
| 15 | 18,300,000 | 18,450,000 | 245 | 1515 | 1.004792827 | KDELC2 |
| 15 | 18,375,000 | 18,525,000 | 246 | 1155 | 0.687755957 | EXPH5,KDELC2 |
| 15 | 18,450,000 | 18,600,000 | 247 | 813 | 0.090745002 | EXPH5,KDELC2 |
| 15 | 18,525,000 | 18,675,000 | 248 | 1100 | -1.292220234 | DDX10 |
| 15 | 18,600,000 | 18,750,000 | 249 | 1197 | -1.069578008 | DDX10 |
| 15 | 18,675,000 | 18,825,000 | 250 | 1371 | 0.904977903 | DDX10 |
| 15 | 18,750,000 | 18,900,000 | 251 | 1573 | 1.002547888 | DDX10 |
| 15 | 18,825,000 | 18,975,000 | 252 | 1351 | 0.680941928 | DDX10 |
| 15 | 18,900,000 | 19,050,000 | 253 | 1644 | 0.838299878 | DDX10 |
| 15 | 18,975,000 | 19,125,000 | 254 | 1638 | 0.534895536 | |
| 15 | 19,050,000 | 19,200,000 | 255 | 1275 | -0.016454786 | |
| 15 | 19,125,000 | 19,275,000 | 256 | 1343 | -1.706507736 | |
| 15 | 19,200,000 | 19,350,000 | 257 | 1797 | -0.725571613 | |
| 15 | 19,275,000 | 19,425,000 | 258 | 1463 | -0.129749388 | |
| 15 | 19,350,000 | 19,500,000 | 259 | 775 | -0.860314249 | |
| 15 | 19,425,000 | 19,575,000 | 260 | 861 | -0.639723427 | |
| 15 | 19,500,000 | 19,650,000 | 261 | 911 | -0.643305782 | C11orf87 |
| 15 | 19,575,000 | 19,725,000 | 262 | 1204 | 0.606167759 | C11orf87 |
| 15 | 19,650,000 | 19,800,000 | 263 | 1358 | 0.992024864 | |
| 15 | 19,725,000 | 19,875,000 | 264 | 1196 | 0.996713663 | |
| 15 | 19,800,000 | 19,950,000 | 265 | 1209 | 0.66675983 | |
| 15 | 19,875,000 | 20,025,000 | 266 | 876 | 0.274869686 | |
| 15 | 19,950,000 | 20,100,000 | 267 | 885 | 0.204758877 | |
| 15 | 20,025,000 | 20,175,000 | 268 | 1150 | 0.511031501 | |
| 15 | 20,100,000 | 20,250,000 | 269 | 1181 | 0.776365144 | |
| 15 | 20,175,000 | 20,325,000 | 270 | 1026 | 0.269319116 | |
| 15 | 20,250,000 | 20,400,000 | 271 | 1280 | 0.303500873 | |
| 15 | 20,325,000 | 20,475,000 | 272 | 1236 | 0.529512316 | |
| 15 | 20,400,000 | 20,550,000 | 273 | 757 | 0.131171218 | ZC3H12C |
| 15 | 20,475,000 | 20,625,000 | 274 | 876 | 0.068146032 | RDX,ZC3H12C,ENSBTAG00000047384 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 20,550,000 | 20,700,000 | 275 | 1118 | -0.224903318 | RDX,ENSBTAG00000047384 |
| 15 | 20,625,000 | 20,775,000 | 276 | 1180 | -0.108349288 | FDX1,RDX |
| 15 | 20,700,000 | 20,850,000 | 277 | 917 | 0.303538246 | FDX1 |
| 15 | 20,775,000 | 20,925,000 | 278 | 830 | -0.94880039 | ARHGAP20,FDX1 |
| 15 | 20,850,000 | 21,000,000 | 279 | 636 | -1.581148395 | ARHGAP20 |
| 15 | 20,925,000 | 21,075,000 | 280 | 676 | 1.040207333 | ARHGAP20 |
| 15 | 21,000,000 | 21,150,000 | 281 | 988 | 0.844774578 | ARHGAP20 |
| 15 | 21,075,000 | 21,225,000 | 282 | 1012 | 0.407580862 | |
| 15 | 21,150,000 | 21,300,000 | 283 | 1072 | 0.546081888 | |
| 15 | 21,225,000 | 21,375,000 | 284 | 964 | 0.786070882 | |
| 15 | 21,300,000 | 21,450,000 | 285 | 745 | 0.576403789 | |
| 15 | 21,375,000 | 21,525,000 | 286 | 620 | 0.032177006 | |
| 15 | 21,450,000 | 21,600,000 | 287 | 742 | -0.877432824 | |
| 15 | 21,525,000 | 21,675,000 | 288 | 959 | -1.170426723 | |
| 15 | 21,600,000 | 21,750,000 | 289 | 1189 | -1.320082267 | |
| 15 | 21,675,000 | 21,825,000 | 290 | 1223 | -0.80496071 | |
| 15 | 21,750,000 | 21,900,000 | 291 | 1145 | 0.646087798 | C11orf53 |
| 15 | 21,825,000 | 21,975,000 | 292 | 1151 | 0.65890256 | C11orf53,POU2AF1 |
| 15 | 21,900,000 | 22,050,000 | 293 | 1119 | 0.679600941 | POU2AF1 |
| 15 | 21,975,000 | 22,125,000 | 294 | 1358 | 0.038765432 | BTG4,POU2AF1 |
| 15 | 22,050,000 | 22,200,000 | 295 | 1325 | 0.092907688 | BTG4,LAYN,MGC133619 |
| 15 | 22,125,000 | 22,275,000 | 296 | 1194 | 0.904962667 | LAYN,MGC133619,SIK2 |
| 15 | 22,200,000 | 22,350,000 | 297 | 1265 | 0.710740417 | SIK2 |
| 15 | 22,275,000 | 22,425,000 | 298 | 1009 | -0.796190692 | PPP2R1B,SIK2 |
| 15 | 22,350,000 | 22,500,000 | 299 | 1072 | -0.483391595 | ALG9,PPP2R1B,SIK2 |
| 15 | 22,425,000 | 22,575,000 | 300 | 1308 | 0.417320798 | ALG9,CRYAB,FDXACB1,HSPB2,MGC134087,ENSBTAG 00000045821 |
| 15 | 22,500,000 | 22,650,000 | 301 | 1291 | 0.31896566 | ALG9,C11ORF52,CRYAB,DIXDC1,FDXACB1,HSPB2,MG C134087,ENSBTAG00000045821 |
| 15 | 22,575,000 | 22,725,000 | 302 | 1216 | 0.36699305 | C11ORF52,DIXDC1,MGC143285,PIH1D2,SDHD,TIMM8 B,ENSBTAG00000010709 |
| 15 | 22,650,000 | 22,800,000 | 303 | 1141 | 0.522838036 | DIXDC1,MGC143285,PIH1D2,SDHD,TIMM8B,ENSBTA G00000010709 |
| 15 | 22,725,000 | 22,875,000 | 304 | 1005 | 0.588070548 | BCO2,IL18,SDHD,TEX12 |
| 15 | 22,800,000 | 22,950,000 | 305 | 866 | -0.65456306 | BCO2,IL18,PTS,TEX12 |
| 15 | 22,875,000 | 23,025,000 | 306 | 1020 | -0.5935897 | BCO2,PLET1,PTS |
| 15 | 22,950,000 | 23,100,000 | 307 | 1432 | -0.112189665 | PLET1 |
| 15 | 23,025,000 | 23,175,000 | 308 | 1437 | 0.15881916 | |
| 15 | 23,100,000 | 23,250,000 | 309 | 1250 | 0.538143572 | |
| 15 | 23,175,000 | 23,325,000 | 310 | 1352 | 0.231141148 | |
| 15 | 23,250,000 | 23,400,000 | 311 | 1133 | 0.362780807 | |
| 15 | 23,325,000 | 23,475,000 | 312 | 804 | 0.721414045 | |
| 15 | 23,400,000 | 23,550,000 | 313 | 943 | 0.533539325 | |
| 15 | 23,475,000 | 23,625,000 | 314 | 1068 | 0.707737257 | |
| 15 | 23,550,000 | 23,700,000 | 315 | 796 | 0.852578624 | |
| 15 | 23,625,000 | 23,775,000 | 316 | 925 | 0.74163695 | |
| 15 | 23,700,000 | 23,850,000 | 317 | 967 | 0.718816563 | |
| 15 | 23,775,000 | 23,925,000 | 318 | 620 | -0.409473316 | |
| 15 | 23,850,000 | 24,000,000 | 319 | 739 | -0.245500219 | |
| 15 | 23,925,000 | 24,075,000 | 320 | 1106 | 0.077990116 | |
| 15 | 24,000,000 | 24,150,000 | 321 | 986 | -0.362759449 | NCAM1 |
| 15 | 24,075,000 | 24,225,000 | 322 | 814 | 0.413379644 | NCAM1,TTC12 |
| 15 | 24,150,000 | 24,300,000 | 323 | 680 | 0.663456969 | ANKK1,NCAM1,TTC12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 24,225,000 | 24,375,000 | 324 | 655 | 0.605154776 | ANKK1,DRD2,TTC12 |
| 15 | 24,300,000 | 24,450,000 | 325 | 905 | -0.293192261 | DRD2 |
| 15 | 24,375,000 | 24,525,000 | 326 | 962 | -0.454779913 | |
| 15 | 24,450,000 | 24,600,000 | 327 | 926 | 0.35900523 | TMPRSS5 |
| 15 | 24,525,000 | 24,675,000 | 328 | 805 | 1.01126166 | CLDN25,TMPRSS5,USP28,ZW10 |
| 15 | 24,600,000 | 24,750,000 | 329 | 621 | 0.706101287 | CLDN25,USP28,ZW10 |
| 15 | 24,675,000 | 24,825,000 | 330 | 707 | -0.248230856 | HTR3B,USP28 |
| 15 | 24,750,000 | 24,900,000 | 331 | 772 | 0.183840903 | HTR3A,HTR3B |
| 15 | 24,825,000 | 24,975,000 | 332 | 441 | 0.792604848 | HTR3A,ZBTB16,ENSBTAG00000046254 |
| 15 | 24,900,000 | 25,050,000 | 333 | 484 | 0.825685175 | ZBTB16,ENSBTAG00000046254 |
| 15 | 24,975,000 | 25,125,000 | 334 | 691 | 0.630122797 | ZBTB16 |
| 15 | 25,050,000 | 25,200,000 | 335 | 925 | 0.801137204 | ZBTB16,ENSBTAG00000008564 |
| 15 | 25,125,000 | 25,275,000 | 336 | 741 | 0.923368778 | C15H11ORF71,RBM7,ENSBTAG00000008564 |
| 15 | 25,200,000 | 25,350,000 | 337 | 439 | -0.891353523 | C15H11ORF71,RBM7,REXO2 |
| 15 | 25,275,000 | 25,425,000 | 338 | 732 | -0.887022248 | NXPE4,REXO2 |
| 15 | 25,350,000 | 25,500,000 | 339 | 769 | 0.373656085 | NXPE4 |
| 15 | 25,425,000 | 25,575,000 | 340 | 613 | -0.720987119 | NXPE2,NXPE4 |
| 15 | 25,500,000 | 25,650,000 | 341 | 923 | -0.995266706 | NXPE2 |
| 15 | 25,575,000 | 25,725,000 | 342 | 1103 | -1.068814666 | |
| 15 | 25,650,000 | 25,800,000 | 343 | 669 | -1.520053901 | |
| 15 | 25,725,000 | 25,875,000 | 344 | 726 | -2.318219361 | |
| 15 | 25,800,000 | 25,950,000 | 345 | 1077 | -0.949939043 | |
| 15 | 25,875,000 | 26,025,000 | 346 | 909 | 0.025181638 | |
| 15 | 25,950,000 | 26,100,000 | 347 | 743 | -0.826099181 | |
| 15 | 26,025,000 | 26,175,000 | 348 | 551 | -1.073928083 | CADM1 |
| 15 | 26,100,000 | 26,250,000 | 349 | 502 | 0.272360864 | CADM1 |
| 15 | 26,175,000 | 26,325,000 | 350 | 642 | -2.282347684 | CADM1 |
| 15 | 26,250,000 | 26,400,000 | 351 | 693 | -2.793366093 | CADM1 |
| 15 | 26,325,000 | 26,475,000 | 352 | 504 | 0.146152358 | CADM1 |
| 15 | 26,400,000 | 26,550,000 | 353 | 425 | 0.444795636 | CADM1 |
| 15 | 26,475,000 | 26,625,000 | 354 | 549 | 1.103593486 | |
| 15 | 26,550,000 | 26,700,000 | 355 | 599 | 0.468924533 | |
| 15 | 26,625,000 | 26,775,000 | 356 | 693 | -0.121274853 | |
| 15 | 26,700,000 | 26,850,000 | 357 | 733 | 0.877722688 | |
| 15 | 26,775,000 | 26,925,000 | 358 | 654 | 0.838482928 | |
| 15 | 26,850,000 | 27,000,000 | 359 | 755 | -0.227044191 | |
| 15 | 26,925,000 | 27,075,000 | 360 | 902 | -0.334002353 | |
| 15 | 27,000,000 | 27,150,000 | 361 | 754 | -0.342893204 | |
| 15 | 27,075,000 | 27,225,000 | 362 | 969 | -0.712937805 | |
| 15 | 27,150,000 | 27,300,000 | 363 | 1387 | -0.262656379 | |
| 15 | 27,225,000 | 27,375,000 | 364 | 1511 | 0.201979877 | |
| 15 | 27,300,000 | 27,450,000 | 365 | 1092 | -0.047690726 | |
| 15 | 27,375,000 | 27,525,000 | 366 | 779 | -0.006075645 | |
| 15 | 27,450,000 | 27,600,000 | 367 | 1077 | 0.364117238 | |
| 15 | 27,525,000 | 27,675,000 | 368 | 783 | 0.482530476 | |
| 15 | 27,600,000 | 27,750,000 | 369 | 335 | 0.414969692 | |
| 15 | 27,675,000 | 27,825,000 | 370 | 495 | 0.178515064 | ENSBTAG00000037657 |
| 15 | 27,750,000 | 27,900,000 | 371 | 665 | 0.403481377 | APOA5,BUD13,ZNF259,ENSBTAG00000037657 |
| 15 | 27,825,000 | 27,975,000 | 372 | 801 | 0.86302325 | APOA1,APOA4,APOA5,APOC3,BUD13,SIK3,ZNF259,ENSBTAG00000037657 |
| 15 | 27,900,000 | 28,050,000 | 373 | 646 | 1.096807167 | APOA1,APOA4,APOC3,SIK3 |
| 15 | 27,975,000 | 28,125,000 | 374 | 373 | 0.78875485 | SIK3 |
| 15 | 28,050,000 | 28,200,000 | 375 | 295 | 0.705345414 | SIK3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 28,125,000 | 28,275,000 | 376 | 268 | 0.276097696 | PAFAH1B2 |
| 15 | 28,200,000 | 28,350,000 | 377 | 372 | 0.250284608 | PAFAH1B2,PCSK7,SIDT2,TAGLN |
| 15 | 28,275,000 | 28,425,000 | 378 | 534 | 0.098127504 | BACE1,PAFAH1B2,PCSK7,RNF214,SIDT2,TAGLN |
| 15 | 28,350,000 | 28,500,000 | 379 | 545 | -0.056441431 | BACE1,CEP164,PCSK7,RNF214 |
| 15 | 28,425,000 | 28,575,000 | 380 | 508 | -0.194666679 | CEP164,DSCAML1 |
| 15 | 28,500,000 | 28,650,000 | 381 | 503 | -0.384636494 | CEP164,DSCAML1 |
| 15 | 28,575,000 | 28,725,000 | 382 | 771 | 0.365453479 | DSCAML1 |
| 15 | 28,650,000 | 28,800,000 | 383 | 828 | 0.781428785 | |
| 15 | 28,725,000 | 28,875,000 | 384 | 502 | 0.820106908 | |
| 15 | 28,800,000 | 28,950,000 | 385 | 387 | 0.100272409 | FXVD2,FXVD6,ENSBTAG00000047932 |
| 15 | 28,875,000 | 29,025,000 | 386 | 687 | 0.489733745 | FXVD2,FXVD6,TMPRSS13,ENSBTAG00000047932 |
| 15 | 28,950,000 | 29,100,000 | 387 | 819 | 0.237266294 | FXVD6,IL10RA,TMPRSS13 |
| 15 | 29,025,000 | 29,175,000 | 388 | 659 | -0.321177882 | IL10RA |
| 15 | 29,100,000 | 29,250,000 | 389 | 767 | 0.5303496 | IL10RA,TMPRSS4 |
| 15 | 29,175,000 | 29,325,000 | 390 | 693 | 1.100774856 | AMICA1,SCN2B,SCN4B,TMPRSS4 |
| 15 | 29,250,000 | 29,400,000 | 391 | 418 | 1.032735224 | AMICA1,MPZL2,MPZL3,SCN2B,SCN4B |
| 15 | 29,325,000 | 29,475,000 | 392 | 331 | 0.126314581 | AMICA1,CD3D,CD3E,CD3G,MPZL2,MPZL3 |
| 15 | 29,400,000 | 29,550,000 | 393 | 344 | -0.73367784 | ATP5L,CD3D,CD3E,CD3G,UBE4A |
| 15 | 29,475,000 | 29,625,000 | 394 | 171 | 0.297542217 | ATP5L,UBE4A |
| 15 | 29,550,000 | 29,700,000 | 395 | 122 | 1.131960944 | KMT2A |
| 15 | 29,625,000 | 29,775,000 | 396 | 224 | 0.643657715 | ARCN1,IFT46,KMT2A,TMEM25,TTC36 |
| 15 | 29,700,000 | 29,850,000 | 397 | 224 | 0.134581497 | ARCN1,IFT46,KMT2A,PHLDB1,TMEM25,TREH,TTC36 |
| 15 | 29,775,000 | 29,925,000 | 398 | 262 | -0.508295368 | ARCN1,DDX6,PHLDB1,TREH |
| 15 | 29,850,000 | 30,000,000 | 399 | 338 | -0.492234634 | DDX6 |
| 15 | 29,925,000 | 30,075,000 | 400 | 383 | 0.06905948 | BCL9L,BLR1,UPK2 |
| 15 | 30,000,000 | 30,150,000 | 401 | 395 | 0.0625914 | BCL9L,BLR1,CCDC84,FOXR1,RPS25,SLC37A4,TRAPPC4,UPK2 |
| 15 | 30,075,000 | 30,225,000 | 402 | 351 | 0.13290904 | C2CD2L,CCDC84,DPAGT1,FOXR1,H2AFX,HMBS,HYOU1,RPS25,SLC37A4,TRAPPC4,VPS11 |
| 15 | 30,150,000 | 30,300,000 | 403 | 291 | 0.777458727 | ABCG4,C2CD2L,DPAGT1,H2AFX,HINFP,HMBS,HYOU1,NLRX1,PDZD3,VPS11 |
| 15 | 30,225,000 | 30,375,000 | 404 | 246 | 0.795113171 | ABCG4,CBL,CCDC153,HINFP,NLRX1,PDZD3 |
| 15 | 30,300,000 | 30,450,000 | 405 | 249 | -0.138990044 | C1QTNF5,CBL,CCDC153,MCAM,PDZD3,RNF26 |
| 15 | 30,375,000 | 30,525,000 | 406 | 312 | -0.390213736 | C1QTNF5,CBL,MCAM,MFRP,RNF26,THY1,USP2 |
| 15 | 30,450,000 | 30,600,000 | 407 | 676 | 0.132688282 | C1QTNF5,MFRP,THY1,USP2 |
| 15 | 30,525,000 | 30,675,000 | 408 | 819 | 0.250304556 | |
| 15 | 30,600,000 | 30,750,000 | 409 | 684 | 0.572669314 | HVEC,ENSBTAG00000027759 |
| 15 | 30,675,000 | 30,825,000 | 410 | 686 | 0.128995727 | HVEC,ENSBTAG00000027759 |
| 15 | 30,750,000 | 30,900,000 | 411 | 786 | -1.42207144 | HVEC |
| 15 | 30,825,000 | 30,975,000 | 412 | 748 | -1.22131784 | |
| 15 | 30,900,000 | 31,050,000 | 413 | 562 | 0.334130737 | |
| 15 | 30,975,000 | 31,125,000 | 414 | 874 | 0.230430133 | |
| 15 | 31,050,000 | 31,200,000 | 415 | 944 | 0.022503969 | |
| 15 | 31,125,000 | 31,275,000 | 416 | 938 | 0.051196576 | TRIM29 |
| 15 | 31,200,000 | 31,350,000 | 417 | 857 | 0.043920169 | OAF,TRIM29 |
| 15 | 31,275,000 | 31,425,000 | 418 | 425 | -0.132660242 | OAF,POU2F3 |
| 15 | 31,350,000 | 31,500,000 | 419 | 323 | -0.04397927 | ARHGEF12,POU2F3,TMEM136 |
| 15 | 31,425,000 | 31,575,000 | 420 | 443 | 0.918729953 | ARHGEF12,POU2F3,TMEM136 |
| 15 | 31,500,000 | 31,650,000 | 421 | 643 | 0.891542607 | ARHGEF12 |
| 15 | 31,575,000 | 31,725,000 | 422 | 673 | 0.441443057 | ARHGEF12 |
| 15 | 31,650,000 | 31,800,000 | 423 | 553 | 0.606262626 | |
| 15 | 31,725,000 | 31,875,000 | 424 | 847 | 1.266880387 | |
| 15 | 31,800,000 | 31,950,000 | 425 | 1314 | 0.988812354 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 31,875,000 | 32,025,000 | 426 | 1470 | 0.292181774 | |
| 15 | 31,950,000 | 32,100,000 | 427 | 1430 | 0.400646504 | GRIK4 |
| 15 | 32,025,000 | 32,175,000 | 428 | 1125 | 0.571633216 | GRIK4,ENSBTAG00000040051 |
| 15 | 32,100,000 | 32,250,000 | 429 | 767 | 0.040116264 | GRIK4,LRRC35,ENSBTAG00000040051 |
| 15 | 32,175,000 | 32,325,000 | 430 | 1083 | 0.814349663 | LRRC35,TECTA |
| 15 | 32,250,000 | 32,400,000 | 431 | 1309 | 0.877803166 | TECTA |
| 15 | 32,325,000 | 32,475,000 | 432 | 1113 | 0.898280137 | SC5DL,TECTA |
| 15 | 32,400,000 | 32,550,000 | 433 | 1344 | 1.0944452 | SC5DL |
| 15 | 32,475,000 | 32,625,000 | 434 | 1255 | 0.790711649 | SORL1 |
| 15 | 32,550,000 | 32,700,000 | 435 | 1142 | -0.224438912 | SORL1 |
| 15 | 32,625,000 | 32,775,000 | 436 | 1139 | -0.316074556 | SORL1 |
| 15 | 32,700,000 | 32,850,000 | 437 | 842 | 0.520430032 | SORL1 |
| 15 | 32,775,000 | 32,925,000 | 438 | 697 | 0.828029497 | |
| 15 | 32,850,000 | 33,000,000 | 439 | 674 | 0.90869716 | |
| 15 | 32,925,000 | 33,075,000 | 440 | 751 | 0.974627085 | |
| 15 | 33,000,000 | 33,150,000 | 441 | 710 | 0.367327817 | |
| 15 | 33,075,000 | 33,225,000 | 442 | 662 | 0.44799017 | |
| 15 | 33,150,000 | 33,300,000 | 443 | 664 | 1.110922622 | |
| 15 | 33,225,000 | 33,375,000 | 444 | 536 | 0.83031399 | |
| 15 | 33,300,000 | 33,450,000 | 445 | 449 | 0.366250323 | |
| 15 | 33,375,000 | 33,525,000 | 446 | 322 | -0.512888345 | |
| 15 | 33,450,000 | 33,600,000 | 447 | 334 | -1.346422642 | |
| 15 | 33,525,000 | 33,675,000 | 448 | 532 | 0.14625887 | |
| 15 | 33,600,000 | 33,750,000 | 449 | 672 | 0.575883855 | |
| 15 | 33,675,000 | 33,825,000 | 450 | 758 | -0.542512455 | |
| 15 | 33,750,000 | 33,900,000 | 451 | 533 | -2.300784398 | |
| 15 | 33,825,000 | 33,975,000 | 452 | 331 | -0.212152184 | UBASH3B |
| 15 | 33,900,000 | 34,050,000 | 453 | 715 | 0.864267168 | C11orf63,CRTAM,UBASH3B |
| 15 | 33,975,000 | 34,125,000 | 454 | 681 | 1.038515304 | C11orf63,CRTAM,UBASH3B |
| 15 | 34,050,000 | 34,200,000 | 455 | 542 | 0.093081106 | BSX,C11orf63 |
| 15 | 34,125,000 | 34,275,000 | 456 | 629 | -0.069791508 | ASAM,BSX,HSPA8 |
| 15 | 34,200,000 | 34,350,000 | 457 | 852 | 0.550755122 | ASAM,HSPA8 |
| 15 | 34,275,000 | 34,425,000 | 458 | 1087 | -0.247161169 | ASAM |
| 15 | 34,350,000 | 34,500,000 | 459 | 1093 | -2.077314623 | |
| 15 | 34,425,000 | 34,575,000 | 460 | 1141 | -1.247659266 | |
| 15 | 34,500,000 | 34,650,000 | 461 | 1056 | -0.08069901 | GRAMD1B |
| 15 | 34,575,000 | 34,725,000 | 462 | 878 | 0.261398602 | GRAMD1B |
| 15 | 34,650,000 | 34,800,000 | 463 | 880 | 0.733883441 | GRAMD1B,SCN3B |
| 15 | 34,725,000 | 34,875,000 | 464 | 1148 | 0.703871812 | GRAMD1B,SCN3B,ZNF202 |
| 15 | 34,800,000 | 34,950,000 | 465 | 969 | 0.652656336 | SAAL1,ZNF202 |
| 15 | 34,875,000 | 35,025,000 | 466 | 564 | -0.345315778 | SAAL1,SERGEF,TPH1 |
| 15 | 34,950,000 | 35,100,000 | 467 | 515 | -1.617653679 | SAAL1,SERGEF,TPH1 |
| 15 | 35,025,000 | 35,175,000 | 468 | 692 | 0.111375322 | SERGEF |
| 15 | 35,100,000 | 35,250,000 | 469 | 895 | 0.61635253 | SERGEF |
| 15 | 35,175,000 | 35,325,000 | 470 | 952 | -0.316135814 | KCNC1,SERGEF |
| 15 | 35,250,000 | 35,400,000 | 471 | 792 | -0.309601776 | KCNC1,MYOD1,SERGEF |
| 15 | 35,325,000 | 35,475,000 | 472 | 624 | 0.504646971 | MYOD1,OTOG |
| 15 | 35,400,000 | 35,550,000 | 473 | 878 | 0.481457399 | OTOG,USH1C |
| 15 | 35,475,000 | 35,625,000 | 474 | 1146 | 0.320721496 | ABCC8,OTOG,USH1C |
| 15 | 35,550,000 | 35,700,000 | 475 | 916 | -0.290805549 | ABCC8,KCNJ11,NUCB2 |
| 15 | 35,625,000 | 35,775,000 | 476 | 727 | -0.010941149 | ABCC8,KCNJ11,NUCB2 |
| 15 | 35,700,000 | 35,850,000 | 477 | 538 | 0.929786294 | NUCB2,ENSBTAG00000015244,ENSBTAG0000003285 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 35,775,000 | 35,925,000 | 478 | 364 | 0.409858503 | PIK3C2A,ENSBTAG00000015244,ENSBTAG000000328 59 |
| 15 | 35,850,000 | 36,000,000 | 479 | 387 | 0.387221451 | PIK3C2A,RPS13 |
| 15 | 35,925,000 | 36,075,000 | 480 | 467 | 0.35372513 | RPS13 |
| 15 | 36,000,000 | 36,150,000 | 481 | 605 | -0.208222997 | PLEKHA7 |
| 15 | 36,075,000 | 36,225,000 | 482 | 698 | -0.891877613 | PLEKHA7,SMAP |
| 15 | 36,150,000 | 36,300,000 | 483 | 663 | -0.178326402 | PLEKHA7,SMAP |
| 15 | 36,225,000 | 36,375,000 | 484 | 449 | 0.469547105 | SMAP |
| 15 | 36,300,000 | 36,450,000 | 485 | 373 | 0.07034141 | |
| 15 | 36,375,000 | 36,525,000 | 486 | 400 | -0.214393301 | |
| 15 | 36,450,000 | 36,600,000 | 487 | 288 | -0.245330225 | |
| 15 | 36,525,000 | 36,675,000 | 488 | 264 | -0.003416058 | SOX6 |
| 15 | 36,600,000 | 36,750,000 | 489 | 376 | -0.056803458 | SOX6 |
| 15 | 36,675,000 | 36,825,000 | 490 | 562 | 0.266678297 | SOX6 |
| 15 | 36,750,000 | 36,900,000 | 491 | 629 | -0.376434469 | SOX6 |
| 15 | 36,825,000 | 36,975,000 | 492 | 594 | -1.04104708 | SOX6 |
| 15 | 36,900,000 | 37,050,000 | 493 | 584 | 0.232665965 | SOX6 |
| 15 | 36,975,000 | 37,125,000 | 494 | 703 | -0.707738583 | SOX6 |
| 15 | 37,050,000 | 37,200,000 | 495 | 749 | -1.044360159 | SOX6 |
| 15 | 37,125,000 | 37,275,000 | 496 | 511 | -0.516692385 | |
| 15 | 37,200,000 | 37,350,000 | 497 | 635 | 0.040762584 | |
| 15 | 37,275,000 | 37,425,000 | 498 | 876 | 0.443876653 | |
| 15 | 37,350,000 | 37,500,000 | 499 | 982 | 0.737448257 | |
| 15 | 37,425,000 | 37,575,000 | 500 | 1068 | -0.137604915 | |
| 15 | 37,500,000 | 37,650,000 | 501 | 753 | -0.999736066 | |
| 15 | 37,575,000 | 37,725,000 | 502 | 649 | 0.596444684 | |
| 15 | 37,650,000 | 37,800,000 | 503 | 861 | 0.753672481 | |
| 15 | 37,725,000 | 37,875,000 | 504 | 687 | 0.526842237 | INSC |
| 15 | 37,800,000 | 37,950,000 | 505 | 590 | -4.174528903 | INSC |
| 15 | 37,875,000 | 38,025,000 | 506 | 597 | -4.354507165 | INSC |
| 15 | 37,950,000 | 38,100,000 | 507 | 455 | -2.108774619 | CT,INSC |
| 15 | 38,025,000 | 38,175,000 | 508 | 377 | -2.376899848 | CALC3,CT |
| 15 | 38,100,000 | 38,250,000 | 509 | 378 | -0.563975962 | CALC3 |
| 15 | 38,175,000 | 38,325,000 | 510 | 536 | 0.181717952 | |
| 15 | 38,250,000 | 38,400,000 | 511 | 383 | -0.067899662 | CRSP1 |
| 15 | 38,325,000 | 38,475,000 | 512 | 197 | 1.177659831 | CRSP1,CYP2R1,PDE3B |
| 15 | 38,400,000 | 38,550,000 | 513 | 320 | -1.600761363 | CYP2R1,PDE3B |
| 15 | 38,475,000 | 38,625,000 | 514 | 355 | -2.609776039 | PDE3B |
| 15 | 38,550,000 | 38,700,000 | 515 | 450 | -0.409182405 | PDE3B |
| 15 | 38,625,000 | 38,775,000 | 516 | 683 | 0.133935419 | COPB1,PDE3B,PSMA1 |
| 15 | 38,700,000 | 38,850,000 | 517 | 800 | -0.161434722 | COPB1,PSMA1 |
| 15 | 38,775,000 | 38,925,000 | 518 | 568 | -0.67283593 | COPB1,RRAS2 |
| 15 | 38,850,000 | 39,000,000 | 519 | 346 | -0.914379033 | RRAS2,SPON1 |
| 15 | 38,925,000 | 39,075,000 | 520 | 748 | 0.3887996 | RRAS2,SPON1 |
| 15 | 39,000,000 | 39,150,000 | 521 | 964 | 0.534647573 | SPON1 |
| 15 | 39,075,000 | 39,225,000 | 522 | 787 | 0.316945679 | SPON1 |
| 15 | 39,150,000 | 39,300,000 | 523 | 791 | -0.677418814 | SPON1 |
| 15 | 39,225,000 | 39,375,000 | 524 | 965 | -0.199818419 | SPON1 |
| 15 | 39,300,000 | 39,450,000 | 525 | 1053 | 0.054672178 | SPON1 |
| 15 | 39,375,000 | 39,525,000 | 526 | 727 | -0.768661486 | |
| 15 | 39,450,000 | 39,600,000 | 527 | 403 | -0.326652655 | FAR1 |
| 15 | 39,525,000 | 39,675,000 | 528 | 398 | -0.413128352 | FAR1 |
| 15 | 39,600,000 | 39,750,000 | 529 | 700 | 0.184835055 | FAR1,PTH |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 39,675,000 | 39,825,000 | 530 | 572 | 0.680049889 | BTBD10,PTH |
| 15 | 39,750,000 | 39,900,000 | 531 | 367 | 0.888691351 | ARNTL,BTBD10 |
| 15 | 39,825,000 | 39,975,000 | 532 | 483 | 0.830163056 | ARNTL,BTBD10 |
| 15 | 39,900,000 | 40,050,000 | 533 | 354 | 0.946085678 | ARNTL |
| 15 | 39,975,000 | 40,125,000 | 534 | 516 | 1.231034791 | |
| 15 | 40,050,000 | 40,200,000 | 535 | 886 | 1.21657919 | |
| 15 | 40,125,000 | 40,275,000 | 536 | 837 | 0.998328264 | RASSF10 |
| 15 | 40,200,000 | 40,350,000 | 537 | 790 | 0.047308084 | RASSF10,TEAD1 |
| 15 | 40,275,000 | 40,425,000 | 538 | 779 | -0.598921405 | TEAD1 |
| 15 | 40,350,000 | 40,500,000 | 539 | 646 | -1.112800433 | TEAD1 |
| 15 | 40,425,000 | 40,575,000 | 540 | 704 | -0.249089733 | TEAD1 |
| 15 | 40,500,000 | 40,650,000 | 541 | 934 | 0.620161514 | |
| 15 | 40,575,000 | 40,725,000 | 542 | 724 | 0.777809415 | |
| 15 | 40,650,000 | 40,800,000 | 543 | 500 | 0.109860294 | PARVA |
| 15 | 40,725,000 | 40,875,000 | 544 | 557 | 0.129134683 | PARVA,ENSBTAG00000047961 |
| 15 | 40,800,000 | 40,950,000 | 545 | 526 | 0.526544967 | PARVA,ENSBTAG00000008193,ENSBTAG00000047961 |
| 15 | 40,875,000 | 41,025,000 | 546 | 570 | 0.697994475 | MICAL2,PARVA,ENSBTAG00000008193 |
| 15 | 40,950,000 | 41,100,000 | 547 | 584 | 1.039064082 | MICAL2,ENSBTAG00000008193 |
| 15 | 41,025,000 | 41,175,000 | 548 | 608 | 0.667309035 | MICAL2 |
| 15 | 41,100,000 | 41,250,000 | 549 | 649 | 0.50304874 | DKK3,MICAL2 |
| 15 | 41,175,000 | 41,325,000 | 550 | 790 | 0.87006336 | DKK3,USP47 |
| 15 | 41,250,000 | 41,400,000 | 551 | 981 | 0.501640229 | DKK3,USP47 |
| 15 | 41,325,000 | 41,475,000 | 552 | 865 | 0.611108182 | USP47 |
| 15 | 41,400,000 | 41,550,000 | 553 | 845 | 0.519517238 | |
| 15 | 41,475,000 | 41,625,000 | 554 | 1048 | -0.004185382 | GALNTL4 |
| 15 | 41,550,000 | 41,700,000 | 555 | 1114 | -0.004230396 | GALNTL4 |
| 15 | 41,625,000 | 41,775,000 | 556 | 1253 | -0.951902017 | GALNTL4 |
| 15 | 41,700,000 | 41,850,000 | 557 | 1446 | -0.453057124 | GALNTL4 |
| 15 | 41,775,000 | 41,925,000 | 558 | 1247 | -1.30176155 | GALNTL4 |
| 15 | 41,850,000 | 42,000,000 | 559 | 1207 | -2.901605294 | GALNTL4 |
| 15 | 41,925,000 | 42,075,000 | 560 | 1125 | -1.498412884 | GALNTL4 |
| 15 | 42,000,000 | 42,150,000 | 561 | 869 | -0.851481278 | |
| 15 | 42,075,000 | 42,225,000 | 562 | 1039 | -2.496022853 | |
| 15 | 42,150,000 | 42,300,000 | 563 | 1082 | -2.91529481 | |
| 15 | 42,225,000 | 42,375,000 | 564 | 883 | -1.101338392 | C7H19orf53,ENSBTAG00000046636 |
| 15 | 42,300,000 | 42,450,000 | 565 | 631 | 0.248285158 | C7H19orf53,EIF4G2,ZBED5,ENSBTAG00000046636 |
| 15 | 42,375,000 | 42,525,000 | 566 | 542 | 0.394336187 | CTR9,EIF4G2,ZBED5 |
| 15 | 42,450,000 | 42,600,000 | 567 | 701 | 0.293538662 | CTR9,MRVI1 |
| 15 | 42,525,000 | 42,675,000 | 568 | 719 | -0.111093247 | MRVI1 |
| 15 | 42,600,000 | 42,750,000 | 569 | 710 | -0.792093523 | LYVE1,MRVI1,RNF141 |
| 15 | 42,675,000 | 42,825,000 | 570 | 821 | -2.588226073 | AMPD3,LYVE1,RNF141 |
| 15 | 42,750,000 | 42,900,000 | 571 | 771 | -3.493537951 | AMPD3,RNF141 |
| 15 | 42,825,000 | 42,975,000 | 572 | 611 | -1.495942719 | ADM,SBF2 |
| 15 | 42,900,000 | 43,050,000 | 573 | 614 | 1.237135765 | ADM,SBF2 |
| 15 | 42,975,000 | 43,125,000 | 574 | 664 | 1.33857908 | SBF2 |
| 15 | 43,050,000 | 43,200,000 | 575 | 564 | 0.594123654 | SBF2 |
| 15 | 43,125,000 | 43,275,000 | 576 | 545 | 0.344618243 | SBF2 |
| 15 | 43,200,000 | 43,350,000 | 577 | 493 | 0.113247395 | SBF2 |
| 15 | 43,275,000 | 43,425,000 | 578 | 435 | 0.068564454 | SBF2 |
| 15 | 43,350,000 | 43,500,000 | 579 | 552 | 0.070862997 | SBF2 |
| 15 | 43,425,000 | 43,575,000 | 580 | 761 | -0.445780531 | HSPC321,SBF2 |
| 15 | 43,500,000 | 43,650,000 | 581 | 736 | 0.2537004 | HSPC321 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 43,575,000 | 43,725,000 | 582 | 539 | 0.959554723 | FAM92A1,HSPC321,WEE1,ENSBTAG00000016074 |
| 15 | 43,650,000 | 43,800,000 | 583 | 351 | 0.889941188 | FAM92A1,IPO7,WEE1,ZNF143,ENSBTAG00000016074 |
| 15 | 43,725,000 | 43,875,000 | 584 | 521 | -0.073488828 | IPO7,ZNF143,ENSBTAG00000016074 |
| 15 | 43,800,000 | 43,950,000 | 585 | 926 | -0.308993135 | IPO7,TMEM41B,ENSBTAG00000027723 |
| 15 | 43,875,000 | 44,025,000 | 586 | 846 | -1.685648135 | DENND5A,TMEM41B,ENSBTAG00000027723 |
| 15 | 43,950,000 | 44,100,000 | 587 | 697 | -2.241422406 | DENND5A,SCUBE2 |
| 15 | 44,025,000 | 44,175,000 | 588 | 639 | -0.892279158 | DENND5A,SCUBE2 |
| 15 | 44,100,000 | 44,250,000 | 589 | 388 | -0.212583678 | ASCL3,NRIP3,SCUBE2,TMEM9B |
| 15 | 44,175,000 | 44,325,000 | 590 | 387 | -0.814112969 | AKIP1,ASCL3,C11ORF16,NRIP3,TMEM9B |
| 15 | 44,250,000 | 44,400,000 | 591 | 549 | -0.57250726 | AKIP1,C11ORF16,ST5 |
| 15 | 44,325,000 | 44,475,000 | 592 | 672 | 0.248246846 | RPL27A,ST5 |
| 15 | 44,400,000 | 44,550,000 | 593 | 834 | -0.203515513 | RPL27A,ST5,TRIM66 |
| 15 | 44,475,000 | 44,625,000 | 594 | 625 | -0.521569638 | STK33,TRIM66 |
| 15 | 44,550,000 | 44,700,000 | 595 | 444 | 0.075220794 | STK33 |
| 15 | 44,625,000 | 44,775,000 | 596 | 724 | 0.63329343 | STK33 |
| 15 | 44,700,000 | 44,850,000 | 597 | 701 | 0.818336492 | STK33 |
| 15 | 44,775,000 | 44,925,000 | 598 | 733 | -0.543079515 | LMO1 |
| 15 | 44,850,000 | 45,000,000 | 599 | 979 | -0.123736665 | LMO1,RIC3 |
| 15 | 44,925,000 | 45,075,000 | 600 | 853 | -0.272031047 | RIC3,TUB |
| 15 | 45,000,000 | 45,150,000 | 601 | 927 | -1.513299168 | EIF3F,RIC3,TUB |
| 15 | 45,075,000 | 45,225,000 | 602 | 1101 | -0.937264713 | EIF3F,ENSBTAG00000038641,ENSBTAG00000039405, ENSBTAG00000040252 |
| 15 | 45,150,000 | 45,300,000 | 603 | 1248 | 0.416065311 | ENSBTAG00000038641,ENSBTAG00000039405,ENSBT AG00000040252,ENSBTAG00000046894 |
| 15 | 45,225,000 | 45,375,000 | 604 | 1221 | 0.710486909 | OR5P3,ENSBTAG00000021150,ENSBTAG0000004028 5,ENSBTAG00000046894 |
| 15 | 45,300,000 | 45,450,000 | 605 | 1139 | 0.158472397 | OR5P3,ENSBTAG00000021150,ENSBTAG0000004028 5,ENSBTAG00000045639,ENSBTAG00000048176 |
| 15 | 45,375,000 | 45,525,000 | 606 | 1449 | -1.863085761 | ENSBTAG00000026826,ENSBTAG00000037384,ENSBT AG00000045639,ENSBTAG00000048176 |
| 15 | 45,450,000 | 45,600,000 | 607 | 1643 | -2.318345561 | ENSBTAG00000026826,ENSBTAG00000037384,ENSBT AG00000038245,ENSBTAG00000038317,ENSBTAG000 00038598,ENSBTAG00000047850 |
| 15 | 45,525,000 | 45,675,000 | 608 | 1443 | -0.400652282 | CYB5R2,OVCH2,PPFIBP2,ENSBTAG00000038245,ENSB TAG00000038317,ENSBTAG00000038598,ENSBTAG00 000047850 |
| 15 | 45,600,000 | 45,750,000 | 609 | 1136 | -0.115484544 | CYB5R2,OVCH2,PPFIBP2 |
| 15 | 45,675,000 | 45,825,000 | 610 | 826 | -0.689599881 | PPFIBP2 |
| 15 | 45,750,000 | 45,900,000 | 611 | 868 | 0.543688163 | OLFML1,PPFIBP2 |
| 15 | 45,825,000 | 45,975,000 | 612 | 1106 | 0.323257622 | OLFML1,SYT9 |
| 15 | 45,900,000 | 46,050,000 | 613 | 1265 | -0.524210324 | SYT9 |
| 15 | 45,975,000 | 46,125,000 | 614 | 1373 | -0.83296285 | SYT9 |
| 15 | 46,050,000 | 46,200,000 | 615 | 1133 | 0.148113047 | |
| 15 | 46,125,000 | 46,275,000 | 616 | 1014 | 1.304993382 | |
| 15 | 46,200,000 | 46,350,000 | 617 | 1266 | 0.917485139 | NLRP14,RBMX |
| 15 | 46,275,000 | 46,425,000 | 618 | 1598 | 0.637599748 | NLRP14,OR2D3,RBMX,ZNF214,ZNF215 |
| 15 | 46,350,000 | 46,500,000 | 619 | 1792 | 0.306592271 | OR10A4,OR2D2,OR2D3,ZNF214,ZNF215,ENSBTAG000 00026441,ENSBTAG00000045599,ENSBTAG00000047 104 |
| 15 | 46,425,000 | 46,575,000 | 620 | 2273 | 0.480070578 | OR10A4,OR2D2,OR6A2,ENSBTAG00000026441,ENSB TAG00000032050,ENSBTAG00000032052,ENSBTAG00 000045599,ENSBTAG00000047104 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 46,500,000 | 46,650,000 | 621 | 2815 | 0.252962023 | OR6A2,ENSBTAG00000032050,ENSBTAG00000032052,ENSBTAG00000036031,ENSBTAG00000037603,ENSBTAG00000038031 |
| 15 | 46,575,000 | 46,725,000 | 622 | 3076 | 0.209608776 | ENSBTAG00000015791,ENSBTAG00000021147,ENSBTAG00000035675,ENSBTAG00000036031,ENSBTAG00000037603,ENSBTAG00000038031,ENSBTAG00000047025 |
| 15 | 46,650,000 | 46,800,000 | 623 | 3027 | 0.530265612 | ENSBTAG00000015791,ENSBTAG00000021147,ENSBTAG00000035675,ENSBTAG00000046196,ENSBTAG00000047025 |
| 15 | 46,725,000 | 46,875,000 | 624 | 2752 | 0.465679552 | ENSBTAG00000004443,ENSBTAG00000037937,ENSBTAG00000046196 |
| 15 | 46,800,000 | 46,950,000 | 625 | 2127 | 0.035384029 | ENSBTAG00000004443,ENSBTAG00000037937,ENSBTAG00000037991 |
| 15 | 46,875,000 | 47,025,000 | 626 | 1992 | -0.037965493 | MRPL17,ENSBTAG00000037991 |
| 15 | 46,950,000 | 47,100,000 | 627 | 1835 | 0.130604157 | DCHS1,ILK,MRPL17,RRP8,TAF10,TPP1 |
| 15 | 47,025,000 | 47,175,000 | 628 | 1386 | 0.556981674 | APBB1,DCHS1,DNHD1,ILK,RRP8,TAF10,TPP1 |
| 15 | 47,100,000 | 47,250,000 | 629 | 1231 | 0.381736833 | APBB1,ARFIP2,DNHD1,FXC1,HPX,TRIM3 |
| 15 | 47,175,000 | 47,325,000 | 630 | 1296 | -1.068553265 | APBB1,ARFIP2,FXC1,HPX,SMPD1,TRIM3,ENSBTAG000009440 |
| 15 | 47,250,000 | 47,400,000 | 631 | 1507 | -1.957722998 | APBB1,CCKBR,PRKCDBP,SMPD1,ENSBTAG00000009440 |
| 15 | 47,325,000 | 47,475,000 | 632 | 1293 | -0.591772011 | C11orf42,CCKBR,CNGA4,FAM160A2,OR52W1,OR56B4,PRKCDBP |
| 15 | 47,400,000 | 47,550,000 | 633 | 1131 | 0.360135332 | C11orf42,CNGA4,FAM160A2,OR52B2,OR52W1,OR56B4 |
| 15 | 47,475,000 | 47,625,000 | 634 | 1062 | 0.468559921 | OR52B2,OR56A1,ENSBTAG00000027443,ENSBTAG0000038977 |
| 15 | 47,550,000 | 47,700,000 | 635 | 1300 | 1.154651836 | OR56A1,ENSBTAG00000027443,ENSBTAG00000032276,ENSBTAG00000038977,ENSBTAG00000047246,ENSBTAG00000048223 |
| 15 | 47,625,000 | 47,775,000 | 636 | 1738 | 1.25448663 | OR52E4,OR52E5,OR56A3,ENSBTAG00000023125,ENSBTAG00000032276,ENSBTAG00000047246,ENSBTAG00000048223 |
| 15 | 47,700,000 | 47,850,000 | 637 | 1782 | 0.961752531 | OR52E4,OR52E5,OR56A3,ENSBTAG0000000118,ENSBTAG00000020952,ENSBTAG00000023125,ENSBTAG00000027949,ENSBTAG00000037505,ENSBTAG00000038452 |
| 15 | 47,775,000 | 47,925,000 | 638 | 1618 | 0.484870528 | ENSBTAG0000000118,ENSBTAG00000020952,ENSBTAG00000027949,ENSBTAG00000036326,ENSBTAG00000037505,ENSBTAG00000038452,ENSBTAG00000040480 |
| 15 | 47,850,000 | 48,000,000 | 639 | 1708 | 0.508677363 | OR52N1,ENSBTAG00000027430,ENSBTAG00000036326,ENSBTAG00000036328,ENSBTAG00000040480 |
| 15 | 47,925,000 | 48,075,000 | 640 | 1933 | 0.682052487 | OR52N1,ENSBTAG00000023912,ENSBTAG00000027430,ENSBTAG00000032255,ENSBTAG00000032256,ENSBTAG00000032259,ENSBTAG00000032262,ENSBTAG00000036328 |
| 15 | 48,000,000 | 48,150,000 | 641 | 1942 | 0.405815617 | ENSBTAG00000023912,ENSBTAG00000026929,ENSBTAG00000027889,ENSBTAG00000032255,ENSBTAG00000032256,ENSBTAG00000032259,ENSBTAG00000032262 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 48,075,000 | 48,225,000 | 642 | 1640 | -0.181923085 | ENSBTAG00000026924,ENSBTAG00000026929,ENSBTAG00000027889,ENSBTAG00000046618 |
| 15 | 48,150,000 | 48,300,000 | 643 | 1328 | -0.667122883 | ENSBTAG00000016119,ENSBTAG00000026922,ENSBTAG00000026924,ENSBTAG00000046618,ENSBTAG00000047088 |
| 15 | 48,225,000 | 48,375,000 | 644 | 1277 | 0.134161728 | ENSBTAG00000005609,ENSBTAG00000016119,ENSBTAG00000026922,ENSBTAG00000047088 |
| 15 | 48,300,000 | 48,450,000 | 645 | 1662 | 0.896520203 | ENSBTAG00000002043,ENSBTAG00000005609,ENSBTAG00000038536 |
| 15 | 48,375,000 | 48,525,000 | 646 | 1917 | 0.567874135 | ENSBTAG00000002043,ENSBTAG00000005251,ENSBTAG00000038536 |
| 15 | 48,450,000 | 48,600,000 | 647 | 1671 | 0.072523141 | OR52B6,ENSBTAG00000005251,ENSBTAG00000037465 |
| 15 | 48,525,000 | 48,675,000 | 648 | 1535 | 0.20055976 | OR52B6,ENSBTAG00000037465,ENSBTAG00000046489,ENSBTAG00000046741,ENSBTAG00000048166,ENSBTAG00000048214 |
| 15 | 48,600,000 | 48,750,000 | 649 | 1743 | 0.28484193 | MGC137098,UBQLN3,UBQLNL,ENSBTAG00000017647,ENSBTAG00000032224,ENSBTAG00000046441,ENSBTAG00000046489,ENSBTAG00000046741,ENSBTAG00000048166,ENSBTAG00000048214 |
| 15 | 48,675,000 | 48,825,000 | 650 | 1987 | 0.334417136 | MGC137098,OR51I2,UBQLN3,UBQLNL,ENSBTAG00000017647,ENSBTAG00000018182,ENSBTAG00000032224,ENSBTAG00000038637,ENSBTAG00000039214,ENSBTAG00000046441,ENSBTAG00000046825,ENSBTAG00000047232 |
| 15 | 48,750,000 | 48,900,000 | 651 | 1859 | 0.29726823 | OR51I1,OR51I2,OR51Q1,ENSBTAG00000018182,ENSBTAG00000019544,ENSBTAG00000038637,ENSBTAG00000039088,ENSBTAG00000039214,ENSBTAG00000046825,ENSBTAG00000047232 |
| 15 | 48,825,000 | 48,975,000 | 652 | 1963 | -0.002222264 | OR51I1,OR51M1,OR51Q1,ENSBTAG00000019544,ENSBTAG00000039088 |
| 15 | 48,900,000 | 49,050,000 | 653 | 2189 | 0.564275682 | HBB,HBE2,HBE4,OR51M1,ENSBTAG00000037815,ENSBTAG00000039056 |
| 15 | 48,975,000 | 49,125,000 | 654 | 1899 | 1.137584123 | HBB,HBE2,HBE4,OR51V1,ENSBTAG00000020673,ENSBTAG00000037644,ENSBTAG00000037815,ENSBTAG00000039056,ENSBTAG00000047477 |
| 15 | 49,050,000 | 49,200,000 | 655 | 1642 | 1.046707868 | HBE2,OR51V1,ENSBTAG00000020673,ENSBTAG00000037644,ENSBTAG00000046378,ENSBTAG00000047477,ENSBTAG00000048301 |
| 15 | 49,125,000 | 49,275,000 | 656 | 1720 | 1.011390879 | ENSBTAG00000038679,ENSBTAG00000046378,ENSBTAG00000046983,ENSBTAG00000048003,ENSBTAG00000048300,ENSBTAG00000048301 |
| 15 | 49,200,000 | 49,350,000 | 657 | 1705 | 0.843987669 | ENSBTAG00000038679,ENSBTAG00000039773,ENSBTAG00000046983,ENSBTAG00000047356,ENSBTAG00000047847,ENSBTAG00000048003,ENSBTAG00000048300 |
| 15 | 49,275,000 | 49,425,000 | 658 | 1358 | 0.687250304 | ENSBTAG00000039773,ENSBTAG00000040017,ENSBTAG00000045959,ENSBTAG00000046829,ENSBTAG00000046921,ENSBTAG00000047356,ENSBTAG00000047847 |
| 15 | 49,350,000 | 49,500,000 | 659 | 1246 | 0.77218393 | ENSBTAG00000039054,ENSBTAG00000040017,ENSBTAG00000045959,ENSBTAG00000046829,ENSBTAG00000046921 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 49,425,000 | 49,575,000 | 660 | 1388 | 0.692150809 | ENSBTAG00000038899,ENSBTAG00000039054,ENSBTAG00000040236,ENSBTAG00000047178,ENSBTAG00000047662 |
| 15 | 49,500,000 | 49,650,000 | 661 | 1236 | 0.175811956 | OR51F2,OR51T1,ENSBTAG00000038899,ENSBTAG000039651,ENSBTAG00000040236,ENSBTAG00000047178,ENSBTAG00000047662 |
| 15 | 49,575,000 | 49,725,000 | 662 | 983 | -0.567931231 | OR51F2,OR51T1,ENSBTAG00000014853,ENSBTAG000038727,ENSBTAG00000039651 |
| 15 | 49,650,000 | 49,800,000 | 663 | 1143 | 0.244970664 | ENSBTAG00000000763,ENSBTAG00000014853,ENSBTAG00000038161,ENSBTAG00000038727,ENSBTAG000045612 |
| 15 | 49,725,000 | 49,875,000 | 664 | 1124 | 0.60824364 | OR52E2,ENSBTAG00000000763,ENSBTAG00000038161,ENSBTAG00000040408,ENSBTAG00000045612,ENSBTAG00000046913 |
| 15 | 49,800,000 | 49,950,000 | 665 | 1229 | -0.738518477 | OR52E2,ENSBTAG00000035006,ENSBTAG00000035008,ENSBTAG00000040408,ENSBTAG00000046913 |
| 15 | 49,875,000 | 50,025,000 | 666 | 1570 | -0.530371287 | ENSBTAG00000008312,ENSBTAG00000035006,ENSBTAG00000035008,ENSBTAG00000045488 |
| 15 | 49,950,000 | 50,100,000 | 667 | 1342 | -0.985673855 | ENSBTAG00000008312,ENSBTAG00000035027,ENSBTAG00000045488,ENSBTAG00000046624,ENSBTAG00000047960 |
| 15 | 50,025,000 | 50,175,000 | 668 | 1321 | -1.450667284 | ENSBTAG00000035027,ENSBTAG00000039298,ENSBTAG00000046624,ENSBTAG00000047960 |
| 15 | 50,100,000 | 50,250,000 | 669 | 1559 | -1.769895464 | ENSBTAG00000037875,ENSBTAG00000039298,ENSBTAG00000039735,ENSBTAG00000047945 |
| 15 | 50,175,000 | 50,325,000 | 670 | 1577 | -1.322289042 | ENSBTAG00000004765,ENSBTAG00000037875,ENSBTAG00000039330,ENSBTAG00000039735,ENSBTAG00000040339,ENSBTAG00000047945 |
| 15 | 50,250,000 | 50,400,000 | 671 | 1546 | -0.295910178 | ENSBTAG00000004765,ENSBTAG00000037886,ENSBTAG00000038636,ENSBTAG00000039330,ENSBTAG00000040339 |
| 15 | 50,325,000 | 50,475,000 | 672 | 1748 | 0.052628623 | ENSBTAG00000017934,ENSBTAG00000037886,ENSBTAG00000038636,ENSBTAG00000040478,ENSBTAG00000047021 |
| 15 | 50,400,000 | 50,550,000 | 673 | 1680 | 0.377932344 | ENSBTAG00000017934,ENSBTAG00000020033,ENSBTAG00000022368,ENSBTAG00000038075,ENSBTAG00000040478,ENSBTAG00000045850,ENSBTAG00000047021,ENSBTAG00000047489 |
| 15 | 50,475,000 | 50,625,000 | 674 | 1496 | -0.137562188 | ENSBTAG00000020033,ENSBTAG00000022368,ENSBTAG00000038075,ENSBTAG00000038579,ENSBTAG00000038787,ENSBTAG00000040119,ENSBTAG00000045850,ENSBTAG00000047489 |
| 15 | 50,550,000 | 50,700,000 | 675 | 1510 | 0.222641084 | OR51L1,ENSBTAG00000038579,ENSBTAG00000038787,ENSBTAG00000039503,ENSBTAG00000040119 |
| 15 | 50,625,000 | 50,775,000 | 676 | 1099 | 0.108424843 | OR51A7,OR51L1,ENSBTAG00000037474,ENSBTAG000038170,ENSBTAG00000039134,ENSBTAG00000039503,ENSBTAG00000046816 |
| 15 | 50,700,000 | 50,850,000 | 677 | 583 | -0.88089312 | OR51A7,ENSBTAG00000037474,ENSBTAG00000038170,ENSBTAG00000039134,ENSBTAG00000046816,ENSBTAG00000046853,ENSBTAG00000047498 |
| 15 | 50,775,000 | 50,925,000 | 678 | 1166 | 0.688580757 | ENSBTAG00000031937,ENSBTAG00000031943,ENSBTAG00000046853,ENSBTAG00000047498 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 15 | 50,850,000 | 51,000,000 | 679 | 1773 | 0.613445912 | OR51E2,ENSBTAG00000027637,ENSBTAG00000031937,ENSBTAG00000031943,ENSBTAG00000034711 |
| 15 | 50,925,000 | 51,075,000 | 680 | 1745 | 0.575119111 | OR51D1,OR51E1,OR51E2,TRIM68,ENSBTAG00000027637,ENSBTAG00000034711,ENSBTAG00000047556,ENSBTAG00000047803,ENSBTAG00000048052 |
| 15 | 51,000,000 | 51,150,000 | 681 | 1137 | 0.33821486 | OR51D1,OR51E1,TRIM68,ENSBTAG00000047556,ENSBTAG00000047803,ENSBTAG00000048052 |
| 15 | 51,075,000 | 51,225,000 | 682 | 189 | -1.410641 | |
| 15 | 51,150,000 | 51,300,000 | 683 | 70 | -0.495693579 | |
| 15 | 51,225,000 | 51,375,000 | 684 | 1068 | 0.029501716 | OR52K2,ENSBTAG00000039467 |
| 15 | 51,300,000 | 51,450,000 | 685 | 1837 | 0.26268835 | OR52K1,OR52K2,OR52M1,ENSBTAG00000013683,ENSBTAG00000039467 |
| 15 | 51,375,000 | 51,525,000 | 686 | 1606 | 0.741956738 | OR52K1,OR52M1,TRIM21,ENSBTAG00000012325,ENSBTAG00000013683,ENSBTAG00000015357,ENSBTAG00000040075 |
| 15 | 51,450,000 | 51,600,000 | 687 | 1698 | 0.121985237 | TRIM21,ENSBTAG00000012325,ENSBTAG00000015357,ENSBTAG00000031915,ENSBTAG00000040075,ENSBTAG00000047860 |
| 15 | 51,525,000 | 51,675,000 | 688 | 1683 | -0.068523046 | ENSBTAG00000031907,ENSBTAG00000031915,ENSBTAG00000045696,ENSBTAG00000047860 |
| 15 | 51,600,000 | 51,750,000 | 689 | 1696 | 0.264124031 | ENSBTAG00000031903,ENSBTAG00000031907,ENSBTAG00000045556,ENSBTAG00000045696 |
| 15 | 51,675,000 | 51,825,000 | 690 | 1986 | 0.290965457 | RRM1,ENSBTAG00000005070,ENSBTAG00000031903,ENSBTAG00000035686,ENSBTAG00000045556 |
| 15 | 51,750,000 | 51,900,000 | 691 | 1898 | -0.175819122 | RRM1,STIM1,ENSBTAG00000005070,ENSBTAG00000035686 |
| 15 | 51,825,000 | 51,975,000 | 692 | 1644 | -0.097544758 | RRM1,STIM1 |
| 15 | 51,900,000 | 52,050,000 | 693 | 1518 | 0.717281533 | STIM1 |
| 15 | 51,975,000 | 52,125,000 | 694 | 1238 | 0.821890724 | NUP98,PGAP2,RHOG,STIM1 |
| 15 | 52,050,000 | 52,200,000 | 695 | 1185 | 0.262976779 | CHRNA10,NUP98,PGAP2,RHOG,ENSBTAG00000006345 |
| 15 | 52,125,000 | 52,275,000 | 696 | 1494 | -0.011612878 | ART1,CHRNA10,NUP98,ENSBTAG00000006345,ENSBTAG00000023648,ENSBTAG00000037826 |
| 15 | 52,200,000 | 52,350,000 | 697 | 1924 | -0.181559308 | ART1,RNF121,ENSBTAG00000006345,ENSBTAG00000011549,ENSBTAG00000023648,ENSBTAG00000026796,ENSBTAG00000037826 |
| 15 | 52,275,000 | 52,425,000 | 698 | 1755 | 0.278903078 | IL18BP,NUMA1,RNF121,ENSBTAG00000011549,ENSBTAG00000026796 |
| 15 | 52,350,000 | 52,500,000 | 699 | 1263 | 1.228774504 | IL18BP,LRRC51,NUMA1,RNF121 |
| 15 | 52,425,000 | 52,575,000 | 700 | 1397 | 1.1574662 | ANAPC15,FOLR1,LAMTOR1,LRRC51,LRTOMT,NUMA1 |
| 15 | 52,500,000 | 52,650,000 | 701 | 1483 | 0.806707248 | ANAPC15,FOLR1,FOLR2,INPPL1,LAMTOR1,LRRC51,LRTOMT,PHOX2A |
| 15 | 52,575,000 | 52,725,000 | 702 | 1317 | 0.748090153 | CLPB,FOLR1,FOLR2,INPPL1,PHOX2A |
| 15 | 52,650,000 | 52,800,000 | 703 | 1212 | 0.94479199 | CLPB |
| 15 | 52,725,000 | 52,875,000 | 704 | 1285 | 0.637944042 | CLPB |
| 15 | 52,800,000 | 52,950,000 | 705 | 1303 | 0.291884127 | CLPB,PDE2A |
| 15 | 52,875,000 | 53,025,000 | 706 | 1056 | -0.053444236 | PDE2A,ENSBTAG00000002051 |
| 15 | 52,950,000 | 53,100,000 | 707 | 661 | -0.61833764 | PDE2A,STARD10,ENSBTAG00000002051 |
| 15 | 53,025,000 | 53,175,000 | 708 | 466 | -1.130329339 | ATG16L2,FCHSD2,STARD10,ENSBTAG00000002051 |
| 15 | 53,100,000 | 53,250,000 | 709 | 623 | -1.438588544 | ATG16L2,FCHSD2,STARD10 |
| 15 | 53,175,000 | 53,325,000 | 710 | 662 | -3.243298131 | FCHSD2 |
| 15 | 53,250,000 | 53,400,000 | 711 | 538 | -3.752778474 | FCHSD2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 15 | 53,325,000 | 53,475,000 | 712 | 504 | -2.032495438 | FCHSD2 |
| 15 | 53,400,000 | 53,550,000 | 713 | 715 | 0.304468785 | FCHSD2,P2RY2 |
| 15 | 53,475,000 | 53,625,000 | 714 | 777 | 0.054610587 | ARHGEF17,P2RY2,P2RY6 |
| 15 | 53,550,000 | 53,700,000 | 715 | 624 | -0.772550579 | ARHGEF17,FAM168A,P2RY6,RELT |
| 15 | 53,625,000 | 53,775,000 | 716 | 582 | -1.285446991 | ARHGEF17,FAM168A,RELT |
| 15 | 53,700,000 | 53,850,000 | 717 | 553 | -0.797874106 | |
| 15 | 53,775,000 | 53,925,000 | 718 | 550 | 0.192398148 | PLEKHB1 |
| 15 | 53,850,000 | 54,000,000 | 719 | 679 | 0.379736671 | PLEKHB1,ENSBTAG00000000025 |
| 15 | 53,925,000 | 54,075,000 | 720 | 977 | 0.602205901 | MRPL48,ENSBTAG00000000025 |
| 15 | 54,000,000 | 54,150,000 | 721 | 1118 | -1.253880484 | MRPL48,PAAF1,ENSBTAG00000000025 |
| 15 | 54,075,000 | 54,225,000 | 722 | 1138 | -2.20289973 | DNAJB13,MRPL48,PAAF1,UCP2,UCP3 |
| 15 | 54,150,000 | 54,300,000 | 723 | 1007 | -1.635173107 | C2CD3,DNAJB13,PAAF1,UCP2,UCP3 |
| 15 | 54,225,000 | 54,375,000 | 724 | 994 | 0.918052633 | C2CD3,PPME1 |
| 15 | 54,300,000 | 54,450,000 | 725 | 829 | 1.182189114 | C2CD3,P4HA3,PPME1 |
| 15 | 54,375,000 | 54,525,000 | 726 | 753 | -0.69361685 | P4HA3,PGM2L1,PPME1,RPL36A |
| 15 | 54,450,000 | 54,600,000 | 727 | 974 | -1.079424952 | KCNE3,P4HA3,PGM2L1,RPL36A |
| 15 | 54,525,000 | 54,675,000 | 728 | 646 | -0.729387453 | KCNE3,LIPT2,PGM2L1 |
| 15 | 54,600,000 | 54,750,000 | 729 | 409 | -0.283992618 | LIPT2,POLD3 |
| 15 | 54,675,000 | 54,825,000 | 730 | 559 | -0.091267999 | CHRD2,POLD3 |
| 15 | 54,750,000 | 54,900,000 | 731 | 479 | 0.226001697 | CHRD2,RNF169 |
| 15 | 54,825,000 | 54,975,000 | 732 | 469 | -0.165230823 | RNF169,XRRA1 |
| 15 | 54,900,000 | 55,050,000 | 733 | 913 | 0.397519309 | NEU3,RNF169,SPCS2,XRRA1 |
| 15 | 54,975,000 | 55,125,000 | 734 | 1058 | 0.941193234 | NEU3,OR2AT4,SPCS2,XRRA1,ENSBTAG00000047344 |
| 15 | 55,050,000 | 55,200,000 | 735 | 759 | 0.824935161 | OR2AT4,SLCO2B1,ENSBTAG00000047344 |
| 15 | 55,125,000 | 55,275,000 | 736 | 532 | -0.240830945 | ARRB1,SLCO2B1,TPBGL |
| 15 | 55,200,000 | 55,350,000 | 737 | 384 | -0.727123289 | ARRB1,SLCO2B1,TPBGL |
| 15 | 55,275,000 | 55,425,000 | 738 | 377 | -0.234529234 | ARRB1,GDPD5,KLHL35,RPS3 |
| 15 | 55,350,000 | 55,500,000 | 739 | 478 | 0.768024795 | GDPD5,KLHL35,RPS3 |
| 15 | 55,425,000 | 55,575,000 | 740 | 451 | 0.851262124 | GDPD5,MAP6,SERPINH1 |
| 15 | 55,500,000 | 55,650,000 | 741 | 422 | 0.547033041 | MAP6,SERPINH1 |
| 15 | 55,575,000 | 55,725,000 | 742 | 506 | 0.029819427 | MAP6,MOGAT2,ENSBTAG00000047111 |
| 15 | 55,650,000 | 55,800,000 | 743 | 545 | -1.549190933 | MOGAT2,ENSBTAG00000047111 |
| 15 | 55,725,000 | 55,875,000 | 744 | 785 | -1.749906429 | ENSBTAG00000000628,ENSBTAG00000015091,ENSBTAG00000046149 |
| 15 | 55,800,000 | 55,950,000 | 745 | 764 | -1.040567586 | DGAT2,MOGAT2,ENSBTAG00000000628,ENSBTAG00000015091,ENSBTAG00000046149 |
| 15 | 55,875,000 | 56,025,000 | 746 | 769 | 0.135904062 | DGAT2,MOGAT2,UVRAG |
| 15 | 55,950,000 | 56,100,000 | 747 | 853 | -0.338196553 | DGAT2,UVRAG |
| 15 | 56,025,000 | 56,175,000 | 748 | 468 | -2.202614163 | UVRAG |
| 15 | 56,100,000 | 56,250,000 | 749 | 257 | -3.302231435 | UVRAG |
| 15 | 56,175,000 | 56,325,000 | 750 | 302 | -1.929654492 | UVRAG |
| 15 | 56,250,000 | 56,400,000 | 751 | 409 | -0.890661884 | UVRAG,WNT11 |
| 15 | 56,325,000 | 56,475,000 | 752 | 406 | -0.560875739 | WNT11 |
| 15 | 56,400,000 | 56,550,000 | 753 | 455 | 0.389052191 | PRKRIR,WNT11 |
| 15 | 56,475,000 | 56,625,000 | 754 | 627 | 1.32645754 | PRKRIR |
| 15 | 56,550,000 | 56,700,000 | 755 | 505 | 1.243259391 | C11orf30,PRKRIR |
| 15 | 56,625,000 | 56,775,000 | 756 | 387 | 1.072335509 | C11orf30 |
| 15 | 56,700,000 | 56,850,000 | 757 | 543 | 0.779633275 | C11orf30,LRRC32 |
| 15 | 56,775,000 | 56,925,000 | 758 | 746 | 1.262405332 | LRRC32,ENSBTAG00000027438 |
| 15 | 56,850,000 | 57,000,000 | 759 | 643 | 1.226015587 | TSKU,ENSBTAG00000027438 |
| 15 | 56,925,000 | 57,075,000 | 760 | 401 | 0.846949261 | ACER3,TSKU |
| 15 | 57,000,000 | 57,150,000 | 761 | 282 | 0.943289092 | ACER3 |
| 15 | 57,075,000 | 57,225,000 | 762 | 365 | -0.320964879 | ACER3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 15 | 57,150,000 | 57,300,000 | 763 | 1207 | -0.056619944 | ACER3,B3GNT6,CAPN5 |
| 15 | 57,225,000 | 57,375,000 | 764 | 1502 | -0.123652211 | B3GNT6,CAPN5,MYO7A |
| 15 | 57,300,000 | 57,450,000 | 765 | 1207 | -0.545499982 | CAPN5,MYO7A,ENSBTAG00000000886 |
| 15 | 57,375,000 | 57,525,000 | 766 | 1227 | -0.047481131 | MYO7A,ENSBTAG00000000886 |
| 15 | 57,450,000 | 57,600,000 | 767 | 1092 | -0.327594676 | ENSBTAG00000000886 |
| 15 | 57,525,000 | 57,675,000 | 768 | 991 | -1.865718171 | |
| 15 | 57,600,000 | 57,750,000 | 769 | 815 | -2.411334976 | |
| 15 | 57,675,000 | 57,825,000 | 770 | 892 | 0.21249714 | |
| 15 | 57,750,000 | 57,900,000 | 771 | 897 | 1.118144972 | |
| 15 | 57,825,000 | 57,975,000 | 772 | 1149 | 0.067599023 | ANO3 |
| 15 | 57,900,000 | 58,050,000 | 773 | 1283 | -0.052811187 | ANO3 |
| 15 | 57,975,000 | 58,125,000 | 774 | 1050 | 0.700482305 | ANO3,MUC15 |
| 15 | 58,050,000 | 58,200,000 | 775 | 948 | 0.96673177 | ANO3,MUC15,SLC5A12 |
| 15 | 58,125,000 | 58,275,000 | 776 | 986 | 0.180681478 | ANO3,SLC5A12 |
| 15 | 58,200,000 | 58,350,000 | 777 | 1235 | 0.008725287 | |
| 15 | 58,275,000 | 58,425,000 | 778 | 962 | -0.101265043 | |
| 15 | 58,350,000 | 58,500,000 | 779 | 759 | -0.33394551 | FIBIN |
| 15 | 58,425,000 | 58,575,000 | 780 | 822 | 0.101117723 | BBOX1,FIBIN |
| 15 | 58,500,000 | 58,650,000 | 781 | 835 | 0.332182542 | BBOX1 |
| 15 | 58,575,000 | 58,725,000 | 782 | 723 | 0.121224643 | BBOX1 |
| 15 | 58,650,000 | 58,800,000 | 783 | 701 | 0.46370791 | |
| 15 | 58,725,000 | 58,875,000 | 784 | 637 | -0.379878257 | CCDC34,LGR4 |
| 15 | 58,800,000 | 58,950,000 | 785 | 396 | -1.775993904 | CCDC34,LGR4 |
| 15 | 58,875,000 | 59,025,000 | 786 | 378 | -0.303143879 | LGR4,LIN7C |
| 15 | 58,950,000 | 59,100,000 | 787 | 660 | 0.85736752 | LGR4,LIN7C |
| 15 | 59,025,000 | 59,175,000 | 788 | 648 | 0.228043029 | BDNF |
| 15 | 59,100,000 | 59,250,000 | 789 | 467 | -0.698553526 | BDNF |
| 15 | 59,175,000 | 59,325,000 | 790 | 659 | 0.795023141 | BDNF |
| 15 | 59,250,000 | 59,400,000 | 791 | 904 | 0.625832383 | |
| 15 | 59,325,000 | 59,475,000 | 792 | 789 | 0.067234702 | |
| 15 | 59,400,000 | 59,550,000 | 793 | 383 | -0.716756066 | KIF18A |
| 15 | 59,475,000 | 59,625,000 | 794 | 176 | -1.966569237 | KIF18A,METTL15 |
| 15 | 59,550,000 | 59,700,000 | 795 | 146 | -2.630201541 | KIF18A,METTL15 |
| 15 | 59,625,000 | 59,775,000 | 796 | 129 | -2.678671221 | METTL15 |
| 15 | 59,700,000 | 59,850,000 | 797 | 286 | -3.712385522 | METTL15 |
| 15 | 59,775,000 | 59,925,000 | 798 | 361 | -3.276683994 | METTL15 |
| 15 | 59,850,000 | 60,000,000 | 799 | 422 | -0.28926099 | |
| 15 | 59,925,000 | 60,075,000 | 800 | 537 | 0.270771158 | |
| 15 | 60,000,000 | 60,150,000 | 801 | 372 | -0.692071776 | |
| 15 | 60,075,000 | 60,225,000 | 802 | 441 | -1.311111376 | |
| 15 | 60,150,000 | 60,300,000 | 803 | 702 | -0.424589178 | |
| 15 | 60,225,000 | 60,375,000 | 804 | 550 | -0.620131642 | |
| 15 | 60,300,000 | 60,450,000 | 805 | 397 | -3.550657357 | |
| 15 | 60,375,000 | 60,525,000 | 806 | 447 | -1.880686228 | |
| 15 | 60,450,000 | 60,600,000 | 807 | 378 | -0.344570919 | |
| 15 | 60,525,000 | 60,675,000 | 808 | 631 | -0.134307839 | |
| 15 | 60,600,000 | 60,750,000 | 809 | 675 | 0.363273059 | |
| 15 | 60,675,000 | 60,825,000 | 810 | 604 | 0.935218766 | |
| 15 | 60,750,000 | 60,900,000 | 811 | 762 | 0.237485668 | |
| 15 | 60,825,000 | 60,975,000 | 812 | 685 | -0.253300713 | |
| 15 | 60,900,000 | 61,050,000 | 813 | 970 | 0.946222074 | |
| 15 | 60,975,000 | 61,125,000 | 814 | 1125 | 1.110264867 | |
| 15 | 61,050,000 | 61,200,000 | 815 | 956 | 0.543025548 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 15 | 61,125,000 | 61,275,000 | 816 | 1124 | -0.358295925 | |
| 15 | 61,200,000 | 61,350,000 | 817 | 1326 | -0.473878998 | |
| 15 | 61,275,000 | 61,425,000 | 818 | 1336 | -1.349422201 | |
| 15 | 61,350,000 | 61,500,000 | 819 | 1309 | -0.952487065 | |
| 15 | 61,425,000 | 61,575,000 | 820 | 1035 | 0.464529232 | KCNA4 |
| 15 | 61,500,000 | 61,650,000 | 821 | 861 | 0.361433922 | KCNA4 |
| 15 | 61,575,000 | 61,725,000 | 822 | 866 | -0.788453612 | ENSBTAG00000039236 |
| 15 | 61,650,000 | 61,800,000 | 823 | 700 | -2.021286584 | FSHB,ENSBTAG00000039236 |
| 15 | 61,725,000 | 61,875,000 | 824 | 555 | -0.287513724 | ARL14EP,FSHB |
| 15 | 61,800,000 | 61,950,000 | 825 | 605 | -0.175389762 | ARL14EP,MPPED2 |
| 15 | 61,875,000 | 62,025,000 | 826 | 769 | -0.459146204 | MPPED2 |
| 15 | 61,950,000 | 62,100,000 | 827 | 653 | -1.10974099 | MPPED2 |
| 15 | 62,025,000 | 62,175,000 | 828 | 486 | -1.309582476 | MPPED2 |
| 15 | 62,100,000 | 62,250,000 | 829 | 499 | -0.496087727 | MPPED2 |
| 15 | 62,175,000 | 62,325,000 | 830 | 496 | 0.114429717 | |
| 15 | 62,250,000 | 62,400,000 | 831 | 518 | 0.151869053 | |
| 15 | 62,325,000 | 62,475,000 | 832 | 684 | -0.076844604 | ENSBTAG00000048290 |
| 15 | 62,400,000 | 62,550,000 | 833 | 938 | -0.383637992 | DCDC1,ENSBTAG00000048290 |
| 15 | 62,475,000 | 62,625,000 | 834 | 1050 | -0.504693155 | DCDC1,ENSBTAG00000048290 |
| 15 | 62,550,000 | 62,700,000 | 835 | 1378 | 0.618495326 | |
| 15 | 62,625,000 | 62,775,000 | 836 | 1167 | 0.845518619 | |
| 15 | 62,700,000 | 62,850,000 | 837 | 718 | 0.197709163 | ENSBTAG00000045878 |
| 15 | 62,775,000 | 62,925,000 | 838 | 687 | 0.793143363 | DCDC1,ENSBTAG00000045878 |
| 15 | 62,850,000 | 63,000,000 | 839 | 397 | 1.221712079 | DCDC1,DNAJC24 |
| 15 | 62,925,000 | 63,075,000 | 840 | 395 | 1.070673399 | DCDC1,DNAJC24,IMMP1L |
| 15 | 63,000,000 | 63,150,000 | 841 | 441 | 0.754745173 | DNAJC24,ELP4,IMMP1L |
| 15 | 63,075,000 | 63,225,000 | 842 | 287 | 0.435418238 | ELP4,IMMP1L |
| 15 | 63,150,000 | 63,300,000 | 843 | 481 | -0.93855347 | ELP4 |
| 15 | 63,225,000 | 63,375,000 | 844 | 506 | -1.070526456 | ELP4,PAX6 |
| 15 | 63,300,000 | 63,450,000 | 845 | 477 | -2.214820012 | ELP4,PAX6 |
| 15 | 63,375,000 | 63,525,000 | 846 | 844 | -0.820308199 | PAX6 |
| 15 | 63,450,000 | 63,600,000 | 847 | 812 | 0.625319133 | |
| 15 | 63,525,000 | 63,675,000 | 848 | 588 | 0.183842873 | RCN1 |
| 15 | 63,600,000 | 63,750,000 | 849 | 846 | -0.29030686 | RCN1 |
| 15 | 63,675,000 | 63,825,000 | 850 | 1266 | -0.413883776 | |
| 15 | 63,750,000 | 63,900,000 | 851 | 1012 | -0.135542754 | |
| 15 | 63,825,000 | 63,975,000 | 852 | 622 | 0.614576464 | WT1 |
| 15 | 63,900,000 | 64,050,000 | 853 | 699 | 0.846580304 | WT1 |
| 15 | 63,975,000 | 64,125,000 | 854 | 809 | 0.213901513 | CCDC73,EIF3M |
| 15 | 64,050,000 | 64,200,000 | 855 | 637 | -0.825288265 | CCDC73,EIF3M |
| 15 | 64,125,000 | 64,275,000 | 856 | 916 | -3.370826412 | CCDC73 |
| 15 | 64,200,000 | 64,350,000 | 857 | 996 | -2.843360763 | CCDC73,PRRG4 |
| 15 | 64,275,000 | 64,425,000 | 858 | 583 | 0.30954478 | PRRG4,QSER1 |
| 15 | 64,350,000 | 64,500,000 | 859 | 585 | 1.066005887 | DEPDC7,QSER1,TCP11L1 |
| 15 | 64,425,000 | 64,575,000 | 860 | 567 | 0.591192663 | CSTF3,DEPDC7,QSER1,TCP11L1 |
| 15 | 64,500,000 | 64,650,000 | 861 | 585 | -1.352223458 | CSTF3,TCP11L1 |
| 15 | 64,575,000 | 64,725,000 | 862 | 555 | -0.934900016 | CSTF3,HIPK3 |
| 15 | 64,650,000 | 64,800,000 | 863 | 478 | 0.519387772 | HIPK3 |
| 15 | 64,725,000 | 64,875,000 | 864 | 606 | 0.574450366 | HIPK3,ENSBTAG00000027578 |
| 15 | 64,800,000 | 64,950,000 | 865 | 900 | 0.856193475 | ENSBTAG00000027578 |
| 15 | 64,875,000 | 65,025,000 | 866 | 848 | 0.323749271 | KIAA1549L |
| 15 | 64,950,000 | 65,100,000 | 867 | 679 | -0.380988062 | KIAA1549L |
| 15 | 65,025,000 | 65,175,000 | 868 | 562 | 0.27781042 | C11orf91,CD59,KIAA1549L |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 15 | 65,100,000 | 65,250,000 | 869 | 394 | -1.136630146 | C11orf91,CD59,FBXO3,KIAA1549L |
| 15 | 65,175,000 | 65,325,000 | 870 | 827 | -1.246467626 | FBXO3 |
| 15 | 65,250,000 | 65,400,000 | 871 | 1005 | 0.065084526 | LMO2 |
| 15 | 65,325,000 | 65,475,000 | 872 | 887 | -1.492837221 | CAPRIN1,LMO2 |
| 15 | 65,400,000 | 65,550,000 | 873 | 1057 | -1.488884838 | ABTB2,CAPRIN1,LMO2,NAT10 |
| 15 | 65,475,000 | 65,625,000 | 874 | 1137 | 0.571215258 | ABTB2,CAPRIN1,NAT10 |
| 15 | 65,550,000 | 65,700,000 | 875 | 1260 | 0.207673574 | ABTB2 |
| 15 | 65,625,000 | 65,775,000 | 876 | 1252 | 0.111648984 | ABTB2 |
| 15 | 65,700,000 | 65,850,000 | 877 | 1211 | 0.628583401 | ABTB2,CAT,ELF5 |
| 15 | 65,775,000 | 65,925,000 | 878 | 1120 | 1.015648601 | CAT,ELF5 |
| 15 | 65,850,000 | 66,000,000 | 879 | 1009 | 0.93957086 | EHF,ELF5 |
| 15 | 65,925,000 | 66,075,000 | 880 | 682 | 0.564043502 | EHF |
| 15 | 66,000,000 | 66,150,000 | 881 | 550 | 0.84436708 | EHF |
| 15 | 66,075,000 | 66,225,000 | 882 | 837 | 0.668041901 | APIP |
| 15 | 66,150,000 | 66,300,000 | 883 | 1238 | 0.845206494 | APIP,PDHX |
| 15 | 66,225,000 | 66,375,000 | 884 | 1320 | 1.146276228 | APIP,PDHX |
| 15 | 66,300,000 | 66,450,000 | 885 | 1032 | 1.192561666 | PDHX |
| 15 | 66,375,000 | 66,525,000 | 886 | 784 | 0.425317831 | CD44 |
| 15 | 66,450,000 | 66,600,000 | 887 | 606 | -1.378255998 | CD44,SLC1A2 |
| 15 | 66,525,000 | 66,675,000 | 888 | 501 | -1.130773877 | CD44,SLC1A2 |
| 15 | 66,600,000 | 66,750,000 | 889 | 470 | -0.328721342 | SLC1A2 |
| 15 | 66,675,000 | 66,825,000 | 890 | 504 | -0.179888567 | PAMR1 |
| 15 | 66,750,000 | 66,900,000 | 891 | 642 | 0.018474608 | PAMR1 |
| 15 | 66,825,000 | 66,975,000 | 892 | 1111 | -0.309038668 | FJX1,PAMR1 |
| 15 | 66,900,000 | 67,050,000 | 893 | 1274 | -0.557048062 | FJX1,TRIM44 |
| 15 | 66,975,000 | 67,125,000 | 894 | 1175 | -0.533817126 | TRIM44 |
| 15 | 67,050,000 | 67,200,000 | 895 | 1334 | -0.208536516 | TRIM44 |
| 15 | 67,125,000 | 67,275,000 | 896 | 1154 | -0.08602236 | LDLRAD3 |
| 15 | 67,200,000 | 67,350,000 | 897 | 933 | 0.039194607 | LDLRAD3 |
| 15 | 67,275,000 | 67,425,000 | 898 | 1194 | -0.011001273 | LDLRAD3 |
| 15 | 67,350,000 | 67,500,000 | 899 | 1153 | 0.137429882 | LDLRAD3 |
| 15 | 67,425,000 | 67,575,000 | 900 | 954 | -0.086998945 | COMMD9,LDLRAD3 |
| 15 | 67,500,000 | 67,650,000 | 901 | 946 | -0.742943768 | COMMD9,LDLRAD3 |
| 15 | 67,575,000 | 67,725,000 | 902 | 1084 | 0.126139962 | COMMD9,PRR5L |
| 15 | 67,650,000 | 67,800,000 | 903 | 939 | 0.415092964 | PRR5L,TRAF6 |
| 15 | 67,725,000 | 67,875,000 | 904 | 740 | 0.743583647 | C15H11ORF74,PRR5L,RAG1,RAG2,TRAF6 |
| 15 | 67,800,000 | 67,950,000 | 905 | 720 | 0.891098701 | C15H11ORF74,RAG1,RAG2 |
| 15 | 67,875,000 | 68,025,000 | 906 | 1141 | 0.649855023 | C15H11ORF74 |
| 15 | 67,950,000 | 68,100,000 | 907 | 1427 | 0.847727455 | |
| 15 | 68,025,000 | 68,175,000 | 908 | 1012 | 0.760929081 | |
| 15 | 68,100,000 | 68,250,000 | 909 | 911 | -0.01331506 | |
| 15 | 68,175,000 | 68,325,000 | 910 | 1384 | -0.450633903 | |
| 15 | 68,250,000 | 68,400,000 | 911 | 1403 | -0.336893247 | |
| 15 | 68,325,000 | 68,475,000 | 912 | 1285 | 0.509379402 | |
| 15 | 68,400,000 | 68,550,000 | 913 | 1500 | 0.775791968 | |
| 15 | 68,475,000 | 68,625,000 | 914 | 1483 | 0.919297802 | |
| 15 | 68,550,000 | 68,700,000 | 915 | 1311 | 0.895815756 | |
| 15 | 68,625,000 | 68,775,000 | 916 | 949 | 0.3017796 | |
| 15 | 68,700,000 | 68,850,000 | 917 | 1019 | 0.391754643 | |
| 15 | 68,775,000 | 68,925,000 | 918 | 1183 | 0.559196913 | |
| 15 | 68,850,000 | 69,000,000 | 919 | 1464 | 0.772083115 | |
| 15 | 68,925,000 | 69,075,000 | 920 | 1572 | 0.866389807 | |
| 15 | 69,000,000 | 69,150,000 | 921 | 1475 | 0.756641085 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------|
| 15 | 69,075,000 | 69,225,000 | 922 | 1254 | 0.136707654 | |
| 15 | 69,150,000 | 69,300,000 | 923 | 1073 | -1.158141915 | |
| 15 | 69,225,000 | 69,375,000 | 924 | 1068 | -0.716567751 | |
| 15 | 69,300,000 | 69,450,000 | 925 | 1097 | -1.223607069 | |
| 15 | 69,375,000 | 69,525,000 | 926 | 989 | -1.602367689 | |
| 15 | 69,450,000 | 69,600,000 | 927 | 941 | -0.093602067 | |
| 15 | 69,525,000 | 69,675,000 | 928 | 919 | 0.099376878 | |
| 15 | 69,600,000 | 69,750,000 | 929 | 869 | -0.205315401 | |
| 15 | 69,675,000 | 69,825,000 | 930 | 893 | 0.178888692 | |
| 15 | 69,750,000 | 69,900,000 | 931 | 674 | 0.750406236 | |
| 15 | 69,825,000 | 69,975,000 | 932 | 890 | 0.687393717 | |
| 15 | 69,900,000 | 70,050,000 | 933 | 1500 | 0.118403872 | |
| 15 | 69,975,000 | 70,125,000 | 934 | 1380 | 0.07661959 | |
| 15 | 70,050,000 | 70,200,000 | 935 | 841 | -0.456750893 | |
| 15 | 70,125,000 | 70,275,000 | 936 | 949 | -2.694345037 | |
| 15 | 70,200,000 | 70,350,000 | 937 | 1216 | -1.026457549 | |
| 15 | 70,275,000 | 70,425,000 | 938 | 1084 | 0.387719557 | |
| 15 | 70,350,000 | 70,500,000 | 939 | 1057 | -0.767591475 | |
| 15 | 70,425,000 | 70,575,000 | 940 | 1125 | -0.982370103 | |
| 15 | 70,500,000 | 70,650,000 | 941 | 1202 | -0.612202135 | |
| 15 | 70,575,000 | 70,725,000 | 942 | 1039 | -0.753414418 | |
| 15 | 70,650,000 | 70,800,000 | 943 | 674 | -0.210346434 | |
| 15 | 70,725,000 | 70,875,000 | 944 | 506 | 0.456917903 | |
| 15 | 70,800,000 | 70,950,000 | 945 | 504 | 0.656966976 | |
| 15 | 70,875,000 | 71,025,000 | 946 | 862 | 0.187894795 | |
| 15 | 70,950,000 | 71,100,000 | 947 | 901 | 0.196470175 | |
| 15 | 71,025,000 | 71,175,000 | 948 | 1086 | 0.360402044 | |
| 15 | 71,100,000 | 71,250,000 | 949 | 1133 | 0.40362185 | LRRC4C |
| 15 | 71,175,000 | 71,325,000 | 950 | 885 | 0.486496054 | LRRC4C |
| 15 | 71,250,000 | 71,400,000 | 951 | 861 | 0.281377569 | |
| 15 | 71,325,000 | 71,475,000 | 952 | 693 | 0.386835096 | |
| 15 | 71,400,000 | 71,550,000 | 953 | 762 | 0.198327866 | |
| 15 | 71,475,000 | 71,625,000 | 954 | 900 | 0.093775373 | |
| 15 | 71,550,000 | 71,700,000 | 955 | 1029 | 0.810132739 | |
| 15 | 71,625,000 | 71,775,000 | 956 | 1357 | 0.93554367 | |
| 15 | 71,700,000 | 71,850,000 | 957 | 1572 | 0.174409831 | |
| 15 | 71,775,000 | 71,925,000 | 958 | 1402 | -0.729132096 | |
| 15 | 71,850,000 | 72,000,000 | 959 | 761 | -0.68333659 | |
| 15 | 71,925,000 | 72,075,000 | 960 | 639 | 0.466501658 | |
| 15 | 72,000,000 | 72,150,000 | 961 | 1054 | 0.198541051 | |
| 15 | 72,075,000 | 72,225,000 | 962 | 913 | 0.08371543 | |
| 15 | 72,150,000 | 72,300,000 | 963 | 701 | 0.847586762 | |
| 15 | 72,225,000 | 72,375,000 | 964 | 895 | 0.63213321 | |
| 15 | 72,300,000 | 72,450,000 | 965 | 745 | 0.459493126 | |
| 15 | 72,375,000 | 72,525,000 | 966 | 664 | 0.289629838 | MSANTD3 |
| 15 | 72,450,000 | 72,600,000 | 967 | 708 | 0.011230581 | MSANTD3 |
| 15 | 72,525,000 | 72,675,000 | 968 | 916 | 0.750043731 | |
| 15 | 72,600,000 | 72,750,000 | 969 | 1384 | 0.932435521 | |
| 15 | 72,675,000 | 72,825,000 | 970 | 1635 | 0.434699349 | |
| 15 | 72,750,000 | 72,900,000 | 971 | 1338 | 0.182587137 | |
| 15 | 72,825,000 | 72,975,000 | 972 | 988 | 0.306394841 | |
| 15 | 72,900,000 | 73,050,000 | 973 | 1391 | 0.023270004 | |
| 15 | 72,975,000 | 73,125,000 | 974 | 1618 | 0.127055604 | |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 73,050,000 | 73,200,000 | 975 | 1534 | -1.230848944 | |
| 15 | 73,125,000 | 73,275,000 | 976 | 1224 | -1.457988793 | |
| 15 | 73,200,000 | 73,350,000 | 977 | 937 | 0.551715573 | |
| 15 | 73,275,000 | 73,425,000 | 978 | 1170 | 0.942257279 | ENSBTAG00000000487 |
| 15 | 73,350,000 | 73,500,000 | 979 | 1182 | 0.781283037 | ENSBTAG00000000487 |
| 15 | 73,425,000 | 73,575,000 | 980 | 992 | 0.229387095 | |
| 15 | 73,500,000 | 73,650,000 | 981 | 1004 | 0.120860464 | |
| 15 | 73,575,000 | 73,725,000 | 982 | 1332 | 0.442622973 | |
| 15 | 73,650,000 | 73,800,000 | 983 | 1538 | 0.458658344 | |
| 15 | 73,725,000 | 73,875,000 | 984 | 1448 | 0.432325095 | |
| 15 | 73,800,000 | 73,950,000 | 985 | 1539 | 0.483110149 | |
| 15 | 73,875,000 | 74,025,000 | 986 | 1524 | 0.338921474 | |
| 15 | 73,950,000 | 74,100,000 | 987 | 1438 | 0.213011179 | |
| 15 | 74,025,000 | 74,175,000 | 988 | 1487 | -0.150154539 | |
| 15 | 74,100,000 | 74,250,000 | 989 | 1292 | -0.588636323 | |
| 15 | 74,175,000 | 74,325,000 | 990 | 1013 | -0.06262019 | API5 |
| 15 | 74,250,000 | 74,400,000 | 991 | 1002 | 0.692752658 | API5,TTC17 |
| 15 | 74,325,000 | 74,475,000 | 992 | 1059 | -0.340515584 | TTC17 |
| 15 | 74,400,000 | 74,550,000 | 993 | 903 | -0.971903831 | TTC17 |
| 15 | 74,475,000 | 74,625,000 | 994 | 621 | -0.299328537 | |
| 15 | 74,550,000 | 74,700,000 | 995 | 459 | 0.344275184 | HSD17B12 |
| 15 | 74,625,000 | 74,775,000 | 996 | 387 | 0.326782614 | HSD17B12 |
| 15 | 74,700,000 | 74,850,000 | 997 | 483 | -1.705281855 | ALKBH3,HSD17B12 |
| 15 | 74,775,000 | 74,925,000 | 998 | 620 | -2.659623662 | ALKBH3,HSD17B12 |
| 15 | 74,850,000 | 75,000,000 | 999 | 1104 | -1.524829707 | ALKBH3 |
| 15 | 74,925,000 | 75,075,000 | 1000 | 1222 | -1.128095614 | ACCSL,ACS,EXT2 |
| 15 | 75,000,000 | 75,150,000 | 1001 | 725 | 0.131434051 | ACCSL,ACS,EXT2 |
| 15 | 75,075,000 | 75,225,000 | 1002 | 526 | 1.075323808 | ALX4,EXT2 |
| 15 | 75,150,000 | 75,300,000 | 1003 | 398 | 0.973441671 | ALX4,EXT2 |
| 15 | 75,225,000 | 75,375,000 | 1004 | 449 | 0.944034992 | EXT2 |
| 15 | 75,300,000 | 75,450,000 | 1005 | 522 | 0.129184208 | |
| 15 | 75,375,000 | 75,525,000 | 1006 | 738 | -0.429640017 | CD82 |
| 15 | 75,450,000 | 75,600,000 | 1007 | 926 | 0.009548499 | CD82 |
| 15 | 75,525,000 | 75,675,000 | 1008 | 1423 | -0.005101103 | CD82 |
| 15 | 75,600,000 | 75,750,000 | 1009 | 1998 | 0.433420173 | TSPAN18 |
| 15 | 75,675,000 | 75,825,000 | 1010 | 1731 | 0.557667933 | TSPAN18 |
| 15 | 75,750,000 | 75,900,000 | 1011 | 1311 | 0.146923277 | TP53I11,TSPAN18 |
| 15 | 75,825,000 | 75,975,000 | 1012 | 1250 | -0.417135899 | TP53I11,TSPAN18 |
| 15 | 75,900,000 | 76,050,000 | 1013 | 1322 | 0.006769997 | |
| 15 | 75,975,000 | 76,125,000 | 1014 | 1231 | 1.121411452 | PRDM11 |
| 15 | 76,050,000 | 76,200,000 | 1015 | 1426 | 1.083188591 | PRDM11,SYT13,ENSBTAG00000031210 |
| 15 | 76,125,000 | 76,275,000 | 1016 | 1661 | 0.798053989 | PRDM11,SYT13,ENSBTAG00000031210 |
| 15 | 76,200,000 | 76,350,000 | 1017 | 1642 | 0.556082827 | SYT13 |
| 15 | 76,275,000 | 76,425,000 | 1018 | 1692 | -0.056442422 | |
| 15 | 76,350,000 | 76,500,000 | 1019 | 1748 | -0.745280878 | |
| 15 | 76,425,000 | 76,575,000 | 1020 | 1358 | -0.483115896 | CHST1 |
| 15 | 76,500,000 | 76,650,000 | 1021 | 758 | 0.206564125 | CHST1 |
| 15 | 76,575,000 | 76,725,000 | 1022 | 635 | -0.693979528 | CHST1 |
| 15 | 76,650,000 | 76,800,000 | 1023 | 981 | -0.061994473 | CRY2,MAPK8IP1,SLC35C1 |
| 15 | 76,725,000 | 76,875,000 | 1024 | 892 | 0.67765088 | C15H11orf94,CRY2,GYLTL1B,MAPK8IP1,PEX16,PHF21A,SLC35C1 |
| 15 | 76,800,000 | 76,950,000 | 1025 | 567 | 0.396194425 | C15H11orf94,GYLTL1B,MAPK8IP1,PEX16,PHF21A |
| 15 | 76,875,000 | 77,025,000 | 1026 | 507 | 0.48886298 | PHF21A |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 76,950,000 | 77,100,000 | 1027 | 709 | -0.416003088 | |
| 15 | 77,025,000 | 77,175,000 | 1028 | 774 | -0.49676236 | CREB3L1 |
| 15 | 77,100,000 | 77,250,000 | 1029 | 590 | -0.104280109 | BMK,CREB3L1,DGKZ |
| 15 | 77,175,000 | 77,325,000 | 1030 | 706 | -0.500945638 | AMBRA1,BMK,CHRM4,CREB3L1,DGKZ |
| 15 | 77,250,000 | 77,400,000 | 1031 | 815 | 0.199473735 | AMBRA1,BMK,CHRM4 |
| 15 | 77,325,000 | 77,475,000 | 1032 | 756 | 0.736852755 | AMBRA1,ATG13,HARBI1 |
| 15 | 77,400,000 | 77,550,000 | 1033 | 766 | 0.314444914 | AMBRA1,ARHGAP1,ATG13,CKAP5,F2,HARBI1,ZNF408 |
| 15 | 77,475,000 | 77,625,000 | 1034 | 689 | -0.271299197 | ARHGAP1,ATG13,CKAP5,F2,ZNF408 |
| 15 | 77,550,000 | 77,700,000 | 1035 | 548 | -0.405266183 | CKAP5,LRP4 |
| 15 | 77,625,000 | 77,775,000 | 1036 | 484 | -0.206055575 | CKAP5,LRP4,ENSBTAG00000047298 |
| 15 | 77,700,000 | 77,850,000 | 1037 | 426 | -0.267338016 | LRP4,ENSBTAG00000012546,ENSBTAG00000038160,ENSBTAG00000047298 |
| 15 | 77,775,000 | 77,925,000 | 1038 | 427 | -0.140437705 | ENSBTAG00000012546,ENSBTAG00000016082,ENSBTAG00000038160 |
| 15 | 77,850,000 | 78,000,000 | 1039 | 458 | -1.281782491 | ENSBTAG00000016082,ENSBTAG00000046354 |
| 15 | 77,925,000 | 78,075,000 | 1040 | 514 | -0.874290667 | C11orf49,ENSBTAG00000046354 |
| 15 | 78,000,000 | 78,150,000 | 1041 | 375 | 0.407172388 | C11orf49 |
| 15 | 78,075,000 | 78,225,000 | 1042 | 508 | 0.964527241 | C11orf49 |
| 15 | 78,150,000 | 78,300,000 | 1043 | 646 | 0.653855477 | ARFGAP2,C11orf49,DDB2,PACSN3 |
| 15 | 78,225,000 | 78,375,000 | 1044 | 479 | 0.425820256 | ACP2,ARFGAP2,C11orf49,DDB2,MADD,NR1H3,PACSN3 |
| 15 | 78,300,000 | 78,450,000 | 1045 | 396 | 0.478651108 | ACP2,DDB2,MADD,MYBPC3,NR1H3,SLC39A13,SPI1 |
| 15 | 78,375,000 | 78,525,000 | 1046 | 416 | 0.879806562 | CUGBP1,MADD,MYBPC3,PSMC3,RAPSN,SLC39A13,SPI1 |
| 15 | 78,450,000 | 78,600,000 | 1047 | 453 | 0.793693874 | CUGBP1,KBTBD4,NDUFS3,PSMC3,PTPMT1,RAPSN,SLC39A13 |
| 15 | 78,525,000 | 78,675,000 | 1048 | 692 | 0.777006314 | CUGBP1,KBTBD4,MTCH2,NDUFS3,PTPMT1 |
| 15 | 78,600,000 | 78,750,000 | 1049 | 819 | 0.872121487 | FNBP4,MTCH2,NUP160 |
| 15 | 78,675,000 | 78,825,000 | 1050 | 829 | 0.001389365 | FNBP4,NUP160 |
| 15 | 78,750,000 | 78,900,000 | 1051 | 1060 | -0.673921326 | NUP160 |
| 15 | 78,825,000 | 78,975,000 | 1052 | 1052 | -0.444521011 | |
| 15 | 78,900,000 | 79,050,000 | 1053 | 1144 | 0.539054128 | PTPRJ |
| 15 | 78,975,000 | 79,125,000 | 1054 | 1067 | 0.747870779 | PTPRJ |
| 15 | 79,050,000 | 79,200,000 | 1055 | 947 | -0.23383439 | OR4X1,PTPRJ,ENSBTAG0000000926,ENSBTAG0000005914,ENSBTAG00000031025 |
| 15 | 79,125,000 | 79,275,000 | 1056 | 1367 | 0.575977939 | OR4C5,OR4S1,OR4X1,ENSBTAG0000000926,ENSBTAG0000005914,ENSBTAG00000024788,ENSBTAG00000031025,ENSBTAG00000031027,ENSBTAG00000031028,ENSBTAG00000031029 |
| 15 | 79,200,000 | 79,350,000 | 1057 | 1691 | 0.919579275 | OR4C3,OR4C5,OR4S1,ENSBTAG00000016090,ENSBTAG00000024788,ENSBTAG00000030909,ENSBTAG00000031027,ENSBTAG00000031028,ENSBTAG00000031029,ENSBTAG00000031032 |
| 15 | 79,275,000 | 79,425,000 | 1058 | 1943 | 0.832245266 | OR4C3,ENSBTAG00000016090,ENSBTAG00000030909,ENSBTAG00000031032,ENSBTAG00000039821 |
| 15 | 79,350,000 | 79,500,000 | 1059 | 2176 | 0.800050588 | ENSBTAG00000039821,ENSBTAG00000047026,ENSBTAG00000048037 |
| 15 | 79,425,000 | 79,575,000 | 1060 | 2361 | 0.61290228 | ENSBTAG00000027275,ENSBTAG00000035487,ENSBTAG00000035489,ENSBTAG00000047026,ENSBTAG00000048037 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 79,500,000 | 79,650,000 | 1061 | 2117 | 0.630641019 | ENSBTAG00000010005,ENSBTAG00000027275,ENSBTAG00000035487,ENSBTAG00000035489,ENSBTAG0000037666,ENSBTAG00000046923 |
| 15 | 79,575,000 | 79,725,000 | 1062 | 1531 | -0.06204684 | ENSBTAG00000010005,ENSBTAG00000011521,ENSBTAG00000035485,ENSBTAG00000037666,ENSBTAG000039272,ENSBTAG00000040425,ENSBTAG00000046923 |
| 15 | 79,650,000 | 79,800,000 | 1063 | 1611 | -0.332753007 | ENSBTAG00000005624,ENSBTAG00000007944,ENSBTAG00000011521,ENSBTAG00000035485,ENSBTAG000039272,ENSBTAG00000040341,ENSBTAG00000040425 |
| 15 | 79,725,000 | 79,875,000 | 1064 | 1604 | 0.301191639 | ENSBTAG00000003056,ENSBTAG00000005087,ENSBTAG00000005624,ENSBTAG00000007944,ENSBTAG0000014594,ENSBTAG00000015876,ENSBTAG00000020746,ENSBTAG00000040341 |
| 15 | 79,800,000 | 79,950,000 | 1065 | 1418 | 0.072999954 | ENSBTAG00000003056,ENSBTAG00000005087,ENSBTAG00000014594,ENSBTAG00000015876,ENSBTAG0000020746,ENSBTAG00000023511,ENSBTAG00000046471,ENSBTAG00000048141 |
| 15 | 79,875,000 | 80,025,000 | 1066 | 1695 | 0.066727677 | ENSBTAG00000005874,ENSBTAG00000023511,ENSBTAG00000030920,ENSBTAG00000039331,ENSBTAG0000046471,ENSBTAG00000048141 |
| 15 | 79,950,000 | 80,100,000 | 1067 | 1892 | 0.122542627 | ENSBTAG00000005874,ENSBTAG00000030920,ENSBTAG00000039331 |
| 15 | 80,025,000 | 80,175,000 | 1068 | 1630 | 0.344480772 | ENSBTAG00000030920 |
| 15 | 80,100,000 | 80,250,000 | 1069 | 1500 | 0.62642447 | ENSBTAG00000046527 |
| 15 | 80,175,000 | 80,325,000 | 1070 | 1979 | -0.234856799 | OR8I2,ENSBTAG00000001291,ENSBTAG00000014309,ENSBTAG00000046527 |
| 15 | 80,250,000 | 80,400,000 | 1071 | 1871 | -0.511976163 | OR8I2,ENSBTAG00000001291,ENSBTAG00000014309,ENSBTAG00000037878,ENSBTAG00000045709,ENSBTAG00000046278 |
| 15 | 80,325,000 | 80,475,000 | 1072 | 1070 | 0.072132718 | ENSBTAG00000035988,ENSBTAG00000037878,ENSBTAG00000045709,ENSBTAG00000046278 |
| 15 | 80,400,000 | 80,550,000 | 1073 | 727 | -0.746521295 | ENSBTAG00000035059,ENSBTAG00000035985,ENSBTAG00000035986,ENSBTAG00000035988,ENSBTAG0000046274,ENSBTAG00000046710 |
| 15 | 80,475,000 | 80,625,000 | 1074 | 1024 | -0.989327124 | ENSBTAG00000022858,ENSBTAG00000023310,ENSBTAG00000024423,ENSBTAG00000035059,ENSBTAG0000035985,ENSBTAG00000035986,ENSBTAG00000046274,ENSBTAG00000046710 |
| 15 | 80,550,000 | 80,700,000 | 1075 | 1579 | -0.476391887 | ENSBTAG00000022858,ENSBTAG00000023310,ENSBTAG00000024423,ENSBTAG00000035990,ENSBTAG0000038049,ENSBTAG00000039348,ENSBTAG00000046845 |
| 15 | 80,625,000 | 80,775,000 | 1076 | 1641 | -0.499730178 | ENSBTAG00000035989,ENSBTAG00000035990,ENSBTAG00000038049,ENSBTAG00000039348,ENSBTAG0000046845 |
| 15 | 80,700,000 | 80,850,000 | 1077 | 1369 | -0.008846311 | OR5J2,ENSBTAG00000035031,ENSBTAG00000035989,ENSBTAG00000045723 |
| 15 | 80,775,000 | 80,925,000 | 1078 | 1468 | 0.573984929 | OR5J2,ENSBTAG00000035029,ENSBTAG00000035031,ENSBTAG00000045723,ENSBTAG00000046801,ENSBTAG00000047721 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 80,850,000 | 81,000,000 | 1079 | 1707 | 0.454220588 | ENSBTAG00000035029,ENSBTAG00000038479,ENSBTAG00000039110,ENSBTAG00000045739,ENSBTAG0000046801,ENSBTAG00000047721 |
| 15 | 80,925,000 | 81,075,000 | 1080 | 1994 | -0.223837513 | OR5M11,OR5M3,ENSBTAG00000038479,ENSBTAG0000039110,ENSBTAG00000045739 |
| 15 | 81,000,000 | 81,150,000 | 1081 | 2193 | -0.364519051 | OR5M11,OR5M3,ENSBTAG00000006421,ENSBTAG0000016146,ENSBTAG00000023542,ENSBTAG00000036130 |
| 15 | 81,075,000 | 81,225,000 | 1082 | 2170 | 0.659453018 | ENSBTAG00000006421,ENSBTAG00000016146,ENSBTAG00000023542,ENSBTAG00000036130,ENSBTAG00000036131,ENSBTAG00000039801,ENSBTAG00000040463 |
| 15 | 81,150,000 | 81,300,000 | 1083 | 1674 | 0.973806952 | ENSBTAG00000036131,ENSBTAG00000037928,ENSBTAG00000038539,ENSBTAG00000039801,ENSBTAG00000040463 |
| 15 | 81,225,000 | 81,375,000 | 1084 | 990 | 0.411718463 | ENSBTAG00000031017,ENSBTAG00000037928,ENSBTAG00000038539 |
| 15 | 81,300,000 | 81,450,000 | 1085 | 1430 | 0.539702805 | ENSBTAG00000023202,ENSBTAG00000031017,ENSBTAG00000038539 |
| 15 | 81,375,000 | 81,525,000 | 1086 | 1709 | 0.862146243 | OR5AK2,ENSBTAG00000023202,ENSBTAG00000031017,ENSBTAG00000039448 |
| 15 | 81,450,000 | 81,600,000 | 1087 | 1671 | 0.034614562 | OR5AK2,ENSBTAG00000023202,ENSBTAG00000039448 |
| 15 | 81,525,000 | 81,675,000 | 1088 | 2014 | 0.069461572 | LRRC55 |
| 15 | 81,600,000 | 81,750,000 | 1089 | 2043 | 0.819623372 | APLNR,LRRC55 |
| 15 | 81,675,000 | 81,825,000 | 1090 | 1829 | 0.971217183 | APLNR,LRRC55,SSRP1,TNKS1BP1 |
| 15 | 81,750,000 | 81,900,000 | 1091 | 1415 | 0.772436928 | P2RX3,PRG3,SSRP1,TNKS1BP1 |
| 15 | 81,825,000 | 81,975,000 | 1092 | 1447 | 0.639574473 | P2RX3,PRG3,SSRP1,ENSBTAG00000040320 |
| 15 | 81,900,000 | 82,050,000 | 1093 | 1506 | 0.802537017 | PRG3,RTN4RL2,SLC43A3,ENSBTAG00000040320 |
| 15 | 81,975,000 | 82,125,000 | 1094 | 1317 | 1.048912918 | RTN4RL2,SLC43A3,SMTNL1,TIMM10,UBE2L6 |
| 15 | 82,050,000 | 82,200,000 | 1095 | 1527 | 1.136841843 | SERPING1,SMTNL1,TIMM10,UBE2L6 |
| 15 | 82,125,000 | 82,275,000 | 1096 | 1381 | 1.10932691 | CLP1,SERPING1,UBE2L6 |
| 15 | 82,200,000 | 82,350,000 | 1097 | 971 | 1.135347947 | CLP1,CTNND1,ZDHHC5 |
| 15 | 82,275,000 | 82,425,000 | 1098 | 1117 | 0.111649596 | BTBD18,CTNND1,MED19,TMX2,ZDHHC5 |
| 15 | 82,350,000 | 82,500,000 | 1099 | 1522 | -0.931185275 | BTBD18,MED19,TMX2,ZDHHC5 |
| 15 | 82,425,000 | 82,575,000 | 1100 | 1928 | -0.613267818 | ENSBTAG0000007971,ENSBTAG00000047396 |
| 15 | 82,500,000 | 82,650,000 | 1101 | 1811 | 0.07331459 | OR9I1,ENSBTAG0000007971,ENSBTAG00000047396 |
| 15 | 82,575,000 | 82,725,000 | 1102 | 1827 | 0.468907761 | OR9I1,ENSBTAG00000038267 |
| 15 | 82,650,000 | 82,800,000 | 1103 | 1646 | 0.393398122 | OR10Q1,OR9Q2,ENSBTAG00000038267,ENSBTAG00000040150 |
| 15 | 82,725,000 | 82,875,000 | 1104 | 1560 | 0.213014985 | OR10Q1,OR10W1,OR5B3,OR9Q2,ENSBTAG00000039306,ENSBTAG00000040150 |
| 15 | 82,800,000 | 82,950,000 | 1105 | 1712 | -0.045831062 | OR10W1,OR5B17,OR5B3,ENSBTAG00000014572,ENSBTAG00000037853,ENSBTAG00000039306 |
| 15 | 82,875,000 | 83,025,000 | 1106 | 1275 | 0.138892082 | OR5B17,OR5B2,OR5B3,ENSBTAG00000013503,ENSBTAG00000014572,ENSBTAG00000037853,ENSBTAG00000039592 |
| 15 | 82,950,000 | 83,100,000 | 1107 | 1392 | 0.637403452 | OR5B2,ENSBTAG00000013503,ENSBTAG00000027942,ENSBTAG00000036042,ENSBTAG00000039592,ENSBTAG00000047464 |
| 15 | 83,025,000 | 83,175,000 | 1108 | 1669 | 0.388628144 | ENSBTAG00000027942,ENSBTAG00000036042,ENSBTAG00000046380,ENSBTAG00000046460,ENSBTAG00000047464 |

| | | | | | | |
|----|------------|------------|------|------|--------------|--|
| 15 | 83,100,000 | 83,250,000 | 1109 | 1357 | 0.197664576 | LPXN,ENSBTAG00000024657,ENSBTAG00000046380,ENSBTAG00000046460 |
| 15 | 83,175,000 | 83,325,000 | 1110 | 1060 | 0.432584086 | CNTF,LPXN,ENSBTAG00000024657 |
| 15 | 83,250,000 | 83,400,000 | 1111 | 1079 | 0.094738979 | CNTF,MPEG1,ENSBTAG00000024657,ENSBTAG0000038058 |
| 15 | 83,325,000 | 83,475,000 | 1112 | 990 | -0.13145361 | GLYAT,MPEG1,ENSBTAG00000012540,ENSBTAG0000038058 |
| 15 | 83,400,000 | 83,550,000 | 1113 | 744 | 0.074439785 | GLYAT,GLYATL2,ENSBTAG00000012540,ENSBTAG0000038058 |
| 15 | 83,475,000 | 83,625,000 | 1114 | 767 | 0.310252312 | FAM111A,FAM111B,GLYATL2,ENSBTAG00000012540 |
| 15 | 83,550,000 | 83,700,000 | 1115 | 976 | 0.432201575 | DTX4,FAM111A,FAM111B |
| 15 | 83,625,000 | 83,775,000 | 1116 | 881 | 0.255384309 | DTX4,ENSBTAG00000039760 |
| 15 | 83,700,000 | 83,850,000 | 1117 | 665 | -0.625541637 | ENSBTAG00000005255,ENSBTAG00000039760 |
| 15 | 83,775,000 | 83,925,000 | 1118 | 612 | -1.457572717 | ENSBTAG00000005255,ENSBTAG00000040023,ENSBTAG00000046811 |
| 15 | 83,850,000 | 84,000,000 | 1119 | 1171 | 0.840062894 | OR4D6,OR5A1,ENSBTAG00000037538,ENSBTAG0000040023,ENSBTAG00000046811 |
| 15 | 83,925,000 | 84,075,000 | 1120 | 1676 | 0.848342312 | OR4D6,OR4D9,OR5A1,ENSBTAG00000001432,ENSBTAG00000002071,ENSBTAG00000002679,ENSBTAG0000018259,ENSBTAG00000033519,ENSBTAG00000037538 |
| 15 | 84,000,000 | 84,150,000 | 1121 | 1156 | 0.626042356 | OR4D9,OSBP,ENSBTAG00000001432,ENSBTAG00000002071,ENSBTAG00000002679,ENSBTAG00000018259,ENSBTAG00000033506,ENSBTAG00000033519 |
| 15 | 84,075,000 | 84,225,000 | 1122 | 531 | 0.941628863 | OR4D9,OSBP,PATL1,ENSBTAG00000033506 |
| 15 | 84,150,000 | 84,300,000 | 1123 | 508 | -0.148604014 | OR10V1,PATL1,ENSBTAG00000048032 |
| 15 | 84,225,000 | 84,375,000 | 1124 | 635 | -0.543360014 | GIF,MRPL16,OR10V1,STX3,ENSBTAG00000048032 |
| 15 | 84,300,000 | 84,450,000 | 1125 | 872 | 0.004736118 | GIF,MRPL16,OOSP1,STX3,TCN1 |
| 15 | 84,375,000 | 84,525,000 | 1126 | 850 | -0.057140525 | GIF,MS4A2,MS4A3,OOSP1,TCN1 |
| 15 | 84,450,000 | 84,600,000 | 1127 | 887 | -0.109051174 | MS4A14,MS4A2,MS4A3,MS4A5,MS4A7 |
| 15 | 84,525,000 | 84,675,000 | 1128 | 900 | -0.346056459 | MS4A1,MS4A13,MS4A14,MS4A5,MS4A7 |
| 15 | 84,600,000 | 84,750,000 | 1129 | 503 | -1.307658744 | MS4A1,MS4A13,MS4A5 |
| 15 | 84,675,000 | 84,825,000 | 1130 | 384 | -0.208445394 | MS4A13,NCAPD3 |
| 15 | 84,750,000 | 84,900,000 | 1131 | 382 | -0.07512502 | ACAD8,NCAPD3,THYN1,VPS26B,ENSBTAG00000012229 |
| 15 | 84,825,000 | 84,975,000 | 1132 | 482 | -0.033513026 | ACAD8,GLB1L2,GLB1L3,NCAPD3,THYN1,VPS26B,ENSBTAG00000012229 |
| 15 | 84,900,000 | 85,050,000 | 1133 | 570 | 0.705279859 | B3GAT1,GLB1L2,GLB1L3,ENSBTAG00000012229 |
| 15 | 84,975,000 | 85,125,000 | 1134 | 432 | 1.071936 | B3GAT1,GLB1L2 |
| 15 | 85,050,000 | 85,200,000 | 1135 | 579 | 1.255370393 | |
| 15 | 85,125,000 | 85,275,000 | 1136 | 770 | 1.301087297 | ENSBTAG00000048316 |
| 15 | 85,200,000 | 85,296,676 | 1137 | 428 | -0.679201025 | ENSBTAG00000048316 |
| 16 | 0 | 150,000 | 1 | 611 | 0.423622783 | |
| 16 | 75,000 | 225,000 | 2 | 627 | 0.625577201 | |
| 16 | 150,000 | 300,000 | 3 | 509 | 0.533308741 | ENSBTAG00000035659 |
| 16 | 225,000 | 375,000 | 4 | 654 | 0.263276763 | ENSBTAG00000015517,ENSBTAG00000035659 |
| 16 | 300,000 | 450,000 | 5 | 938 | 0.423086036 | ENSBTAG00000015517,ENSBTAG00000039944,ENSBTAG00000047603 |
| 16 | 375,000 | 525,000 | 6 | 1014 | 0.806876933 | TMEM183,ENSBTAG00000039944,ENSBTAG00000047603 |
| 16 | 450,000 | 600,000 | 7 | 1001 | 0.859776009 | MYOG,PPFIA4,TMEM183 |
| 16 | 525,000 | 675,000 | 8 | 879 | 0.262087529 | MYOG,PPFIA4,TMEM183 |
| 16 | 600,000 | 750,000 | 9 | 840 | -0.770339494 | ADORA1 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 16 | 675,000 | 825,000 | 10 | 1158 | -1.138511464 | ADORA1,CHI3L1,MYBPH |
| 16 | 750,000 | 900,000 | 11 | 1540 | -1.141884466 | ADORA1,BTG2,CHI3L1,MYBPH |
| 16 | 825,000 | 975,000 | 12 | 1707 | -0.156996238 | BTG2,FMOD |
| 16 | 900,000 | 1,050,000 | 13 | 1967 | 0.743458777 | FMOD,PRELP |
| 16 | 975,000 | 1,125,000 | 14 | 1855 | 0.726895249 | OPTC,PRELP |
| 16 | 1,050,000 | 1,200,000 | 15 | 1445 | 0.805512067 | OPTC,PRELP |
| 16 | 1,125,000 | 1,275,000 | 16 | 952 | 0.56755825 | ATP2B4 |
| 16 | 1,200,000 | 1,350,000 | 17 | 542 | -0.319062173 | ATP2B4,LAX1 |
| 16 | 1,275,000 | 1,425,000 | 18 | 477 | -0.099728374 | ATP2B4,LAX1,ZBED6,ZC3H11A |
| 16 | 1,350,000 | 1,500,000 | 19 | 871 | 0.480914387 | ZBED6,ZC3H11A |
| 16 | 1,425,000 | 1,575,000 | 20 | 1327 | 0.241990103 | ZC3H11A |
| 16 | 1,500,000 | 1,650,000 | 21 | 1244 | 0.056168367 | |
| 16 | 1,575,000 | 1,725,000 | 22 | 823 | -0.000976391 | SOX13 |
| 16 | 1,650,000 | 1,800,000 | 23 | 471 | -0.963405773 | ETNK2,GOLT1A,KISS1,REN,SOX13 |
| 16 | 1,725,000 | 1,875,000 | 24 | 596 | -0.317701852 | ETNK2,GOLT1A,KISS1,PLEKHA6,REN,SOX13 |
| 16 | 1,800,000 | 1,950,000 | 25 | 587 | 0.641206345 | PLEKHA6 |
| 16 | 1,875,000 | 2,025,000 | 26 | 643 | 0.452388084 | PIK3C2B,PLEKHA6,PPP1R15B |
| 16 | 1,950,000 | 2,100,000 | 27 | 784 | 0.429971404 | MDM4,PIK3C2B,PPP1R15B |
| 16 | 2,025,000 | 2,175,000 | 28 | 955 | 0.243297636 | MDM4,PIK3C2B,ENSBTAG00000026068,ENSBTAG0000034611 |
| 16 | 2,100,000 | 2,250,000 | 29 | 1416 | 0.158461703 | LRRN5,MDM4,ENSBTAG00000026068,ENSBTAG0000034611 |
| 16 | 2,175,000 | 2,325,000 | 30 | 1440 | -0.352941292 | LRRN5 |
| 16 | 2,250,000 | 2,400,000 | 31 | 1574 | 0.165915084 | |
| 16 | 2,325,000 | 2,475,000 | 32 | 1948 | 0.863825287 | |
| 16 | 2,400,000 | 2,550,000 | 33 | 1747 | -0.776512073 | |
| 16 | 2,475,000 | 2,625,000 | 34 | 1081 | -1.907438535 | NFASC |
| 16 | 2,550,000 | 2,700,000 | 35 | 518 | 0.048950438 | CNTN2,NFASC,RBBP5,TMEM81 |
| 16 | 2,625,000 | 2,775,000 | 36 | 426 | 0.468533903 | CNTN2,DSTYK,NFASC,RBBP5,TMEM81 |
| 16 | 2,700,000 | 2,850,000 | 37 | 527 | 0.648493821 | DSTYK,RBBP5,TMCC2 |
| 16 | 2,775,000 | 2,925,000 | 38 | 542 | 1.03000706 | DSTYK,NUAK2,TMCC2 |
| 16 | 2,850,000 | 3,000,000 | 39 | 813 | -0.107949834 | KLHDC8A,LEMD1,NUAK2,TMCC2 |
| 16 | 2,925,000 | 3,075,000 | 40 | 876 | -0.589601843 | KLHDC8A,LEMD1 |
| 16 | 3,000,000 | 3,150,000 | 41 | 668 | 0.087513915 | LEMD1,PCTK3 |
| 16 | 3,075,000 | 3,225,000 | 42 | 628 | 0.160364463 | ELK4,MFSD4,PCTK3 |
| 16 | 3,150,000 | 3,300,000 | 43 | 441 | -0.194349516 | ELK4,MFSD4,SLC45A3 |
| 16 | 3,225,000 | 3,375,000 | 44 | 331 | -0.140822783 | NUCKS1,RAB7L1,SLC41A1,SLC45A3 |
| 16 | 3,300,000 | 3,450,000 | 45 | 343 | 0.319938925 | NUCKS1,PM20D1,RAB7L1,SLC41A1 |
| 16 | 3,375,000 | 3,525,000 | 46 | 589 | 0.476608165 | PM20D1,SLC26A9,SLC41A1 |
| 16 | 3,450,000 | 3,600,000 | 47 | 899 | 0.761506431 | PM20D1,RAB7B,SLC26A9 |
| 16 | 3,525,000 | 3,675,000 | 48 | 1022 | 0.656140358 | RAB7B |
| 16 | 3,600,000 | 3,750,000 | 49 | 749 | 0.501733627 | AVPR1B,C1orf186,RAB7B |
| 16 | 3,675,000 | 3,825,000 | 50 | 424 | 0.392482929 | AVPR1B,C1orf186 |
| 16 | 3,750,000 | 3,900,000 | 51 | 503 | 0.815732515 | FAM72A |
| 16 | 3,825,000 | 3,975,000 | 52 | 448 | 0.975567289 | FAM72A |
| 16 | 3,900,000 | 4,050,000 | 53 | 450 | 0.623569713 | ENSBTAG00000001483 |
| 16 | 3,975,000 | 4,125,000 | 54 | 892 | 0.45329481 | IKBKE,ENSBTAG00000001483 |
| 16 | 4,050,000 | 4,200,000 | 55 | 1250 | -0.936384662 | IKBKE,RASSF5,ENSBTAG00000001483 |
| 16 | 4,125,000 | 4,275,000 | 56 | 1218 | -1.028582012 | DYRK3,EIF2D,IKBKE,RASSF5 |
| 16 | 4,200,000 | 4,350,000 | 57 | 1069 | 0.817558699 | DYRK3,EIF2D,MAPKAPK2,RASSF5 |
| 16 | 4,275,000 | 4,425,000 | 58 | 950 | 1.025340959 | DYRK3,IL10,MAPKAPK2 |
| 16 | 4,350,000 | 4,500,000 | 59 | 797 | 0.95199692 | IL10,IL19,MAPKAPK2 |
| 16 | 4,425,000 | 4,575,000 | 60 | 930 | 0.779873915 | FCAMR,IL19,IL20,PIGR |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---------------------------------------|
| 16 | 4,500,000 | 4,650,000 | 61 | 1112 | 0.621879734 | FAIM3,FCAMR,IL20,IL24,PIGR |
| 16 | 4,575,000 | 4,725,000 | 62 | 805 | 0.826450171 | FAIM3,IL24,SARG,YOD1 |
| 16 | 4,650,000 | 4,800,000 | 63 | 620 | 0.482192746 | C4BPA,C4BPB,PFKFB2,SARG,YOD1 |
| 16 | 4,725,000 | 4,875,000 | 64 | 705 | 0.873044845 | C4BPA,C4BPB,PFKFB2 |
| 16 | 4,800,000 | 4,950,000 | 65 | 951 | 1.440248996 | C4BPA,ENSBTAG00000039196 |
| 16 | 4,875,000 | 5,025,000 | 66 | 1265 | 1.168849784 | ENSBTAG00000039196,ENSBTAG00000047621 |
| 16 | 4,950,000 | 5,100,000 | 67 | 1260 | 0.873187127 | ENSBTAG00000039196,ENSBTAG00000047621 |
| 16 | 5,025,000 | 5,175,000 | 68 | 917 | 0.27240238 | CD55 |
| 16 | 5,100,000 | 5,250,000 | 69 | 535 | -1.210550497 | CD55 |
| 16 | 5,175,000 | 5,325,000 | 70 | 573 | -0.293638389 | CR2 |
| 16 | 5,250,000 | 5,400,000 | 71 | 953 | 0.679358544 | CR2 |
| 16 | 5,325,000 | 5,475,000 | 72 | 1129 | 0.862540662 | |
| 16 | 5,400,000 | 5,550,000 | 73 | 1308 | 0.576881706 | ENSBTAG00000023177 |
| 16 | 5,475,000 | 5,625,000 | 74 | 1467 | 0.268387387 | ENSBTAG00000023177,ENSBTAG00000024647 |
| 16 | 5,550,000 | 5,700,000 | 75 | 1616 | 0.091566768 | ENSBTAG00000023177,ENSBTAG00000024647 |
| 16 | 5,625,000 | 5,775,000 | 76 | 2305 | 0.071447614 | ENSBTAG00000024647 |
| 16 | 5,700,000 | 5,850,000 | 77 | 2165 | 0.216304974 | ENSBTAG00000024647,ENSBTAG00000040409 |
| 16 | 5,775,000 | 5,925,000 | 78 | 2070 | 0.339399311 | ENSBTAG00000024647,ENSBTAG00000040409 |
| 16 | 5,850,000 | 6,000,000 | 79 | 2151 | 0.495859846 | ENSBTAG00000024647,ENSBTAG00000040409 |
| 16 | 5,925,000 | 6,075,000 | 80 | 1973 | 0.54068847 | CFH,ENSBTAG00000024647 |
| 16 | 6,000,000 | 6,150,000 | 81 | 2109 | 0.607926689 | CFH |
| 16 | 6,075,000 | 6,225,000 | 82 | 1662 | 0.833149381 | CFH |
| 16 | 6,150,000 | 6,300,000 | 83 | 915 | 0.530016874 | |
| 16 | 6,225,000 | 6,375,000 | 84 | 423 | -0.712656968 | KCNT2 |
| 16 | 6,300,000 | 6,450,000 | 85 | 527 | 0.263295539 | KCNT2 |
| 16 | 6,375,000 | 6,525,000 | 86 | 776 | 1.176688144 | KCNT2 |
| 16 | 6,450,000 | 6,600,000 | 87 | 785 | 1.045795634 | KCNT2 |
| 16 | 6,525,000 | 6,675,000 | 88 | 599 | -0.654325071 | KCNT2 |
| 16 | 6,600,000 | 6,750,000 | 89 | 750 | -0.646949004 | KCNT2 |
| 16 | 6,675,000 | 6,825,000 | 90 | 837 | 0.29912141 | |
| 16 | 6,750,000 | 6,900,000 | 91 | 924 | -0.371254458 | |
| 16 | 6,825,000 | 6,975,000 | 92 | 840 | -0.299319444 | |
| 16 | 6,900,000 | 7,050,000 | 93 | 474 | 0.123301621 | |
| 16 | 6,975,000 | 7,125,000 | 94 | 971 | -0.30153451 | |
| 16 | 7,050,000 | 7,200,000 | 95 | 1141 | -0.25276481 | |
| 16 | 7,125,000 | 7,275,000 | 96 | 692 | 0.112843137 | |
| 16 | 7,200,000 | 7,350,000 | 97 | 607 | 0.078624131 | |
| 16 | 7,275,000 | 7,425,000 | 98 | 866 | 0.097177988 | |
| 16 | 7,350,000 | 7,500,000 | 99 | 1003 | -0.24840218 | |
| 16 | 7,425,000 | 7,575,000 | 100 | 911 | -0.581987669 | |
| 16 | 7,500,000 | 7,650,000 | 101 | 920 | -0.56060539 | |
| 16 | 7,575,000 | 7,725,000 | 102 | 850 | 0.013522829 | |
| 16 | 7,650,000 | 7,800,000 | 103 | 1215 | 0.412077186 | |
| 16 | 7,725,000 | 7,875,000 | 104 | 1472 | 0.06249237 | |
| 16 | 7,800,000 | 7,950,000 | 105 | 1306 | -1.076677839 | |
| 16 | 7,875,000 | 8,025,000 | 106 | 1375 | 0.095861121 | |
| 16 | 7,950,000 | 8,100,000 | 107 | 1404 | 1.243160039 | |
| 16 | 8,025,000 | 8,175,000 | 108 | 1501 | 1.391655365 | |
| 16 | 8,100,000 | 8,250,000 | 109 | 1552 | 1.389072109 | ENSBTAG00000025113 |
| 16 | 8,175,000 | 8,325,000 | 110 | 1003 | 1.337326429 | ENSBTAG00000025113 |
| 16 | 8,250,000 | 8,400,000 | 111 | 1031 | 1.077582977 | |
| 16 | 8,325,000 | 8,475,000 | 112 | 1677 | 0.892873044 | |
| 16 | 8,400,000 | 8,550,000 | 113 | 1585 | 0.565588769 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 16 | 8,475,000 | 8,625,000 | 114 | 1143 | 0.337067065 | |
| 16 | 8,550,000 | 8,700,000 | 115 | 1237 | 0.9697552 | |
| 16 | 8,625,000 | 8,775,000 | 116 | 1585 | 1.247786163 | |
| 16 | 8,700,000 | 8,850,000 | 117 | 1176 | 1.216772906 | |
| 16 | 8,775,000 | 8,925,000 | 118 | 1063 | 0.504506575 | |
| 16 | 8,850,000 | 9,000,000 | 119 | 1675 | 0.644561342 | |
| 16 | 8,925,000 | 9,075,000 | 120 | 1670 | 1.027265912 | |
| 16 | 9,000,000 | 9,150,000 | 121 | 1549 | 0.699081965 | |
| 16 | 9,075,000 | 9,225,000 | 122 | 1479 | 0.624272872 | |
| 16 | 9,150,000 | 9,300,000 | 123 | 1417 | 1.047766426 | |
| 16 | 9,225,000 | 9,375,000 | 124 | 1501 | 1.053067178 | |
| 16 | 9,300,000 | 9,450,000 | 125 | 1522 | 1.019209641 | |
| 16 | 9,375,000 | 9,525,000 | 126 | 1155 | 0.822921787 | |
| 16 | 9,450,000 | 9,600,000 | 127 | 800 | 0.385656511 | |
| 16 | 9,525,000 | 9,675,000 | 128 | 1101 | 0.875294706 | |
| 16 | 9,600,000 | 9,750,000 | 129 | 1284 | 1.074957224 | |
| 16 | 9,675,000 | 9,825,000 | 130 | 1721 | 0.765760529 | |
| 16 | 9,750,000 | 9,900,000 | 131 | 1754 | 0.712856904 | |
| 16 | 9,825,000 | 9,975,000 | 132 | 1145 | 0.746045662 | |
| 16 | 9,900,000 | 10,050,000 | 133 | 1339 | -1.142382452 | |
| 16 | 9,975,000 | 10,125,000 | 134 | 1740 | -1.392965021 | |
| 16 | 10,050,000 | 10,200,000 | 135 | 1830 | 0.166708984 | |
| 16 | 10,125,000 | 10,275,000 | 136 | 1886 | 0.644182554 | |
| 16 | 10,200,000 | 10,350,000 | 137 | 1761 | 0.626029371 | |
| 16 | 10,275,000 | 10,425,000 | 138 | 2037 | 1.060913034 | |
| 16 | 10,350,000 | 10,500,000 | 139 | 2129 | 0.441871219 | |
| 16 | 10,425,000 | 10,575,000 | 140 | 2090 | -0.454856324 | |
| 16 | 10,500,000 | 10,650,000 | 141 | 2043 | -0.110994046 | |
| 16 | 10,575,000 | 10,725,000 | 142 | 1587 | 0.909818136 | |
| 16 | 10,650,000 | 10,800,000 | 143 | 1306 | 1.002041917 | |
| 16 | 10,725,000 | 10,875,000 | 144 | 1201 | 0.702401447 | |
| 16 | 10,800,000 | 10,950,000 | 145 | 1242 | 0.640982163 | |
| 16 | 10,875,000 | 11,025,000 | 146 | 991 | 0.74194227 | |
| 16 | 10,950,000 | 11,100,000 | 147 | 861 | 0.51834819 | ENSBTAG00000014862 |
| 16 | 11,025,000 | 11,175,000 | 148 | 1123 | -0.86195738 | ENSBTAG00000014862 |
| 16 | 11,100,000 | 11,250,000 | 149 | 919 | -1.320702358 | |
| 16 | 11,175,000 | 11,325,000 | 150 | 652 | 0.434472513 | |
| 16 | 11,250,000 | 11,400,000 | 151 | 1000 | 0.753692766 | |
| 16 | 11,325,000 | 11,475,000 | 152 | 1372 | 0.580044617 | |
| 16 | 11,400,000 | 11,550,000 | 153 | 1459 | 0.540906649 | |
| 16 | 11,475,000 | 11,625,000 | 154 | 1342 | 0.949107533 | |
| 16 | 11,550,000 | 11,700,000 | 155 | 1371 | 0.820929376 | |
| 16 | 11,625,000 | 11,775,000 | 156 | 1507 | -1.580251981 | |
| 16 | 11,700,000 | 11,850,000 | 157 | 1397 | -1.321538206 | |
| 16 | 11,775,000 | 11,925,000 | 158 | 1212 | 0.679105117 | |
| 16 | 11,850,000 | 12,000,000 | 159 | 1068 | 0.519795019 | |
| 16 | 11,925,000 | 12,075,000 | 160 | 987 | 0.53945141 | |
| 16 | 12,000,000 | 12,150,000 | 161 | 1040 | -0.926717912 | |
| 16 | 12,075,000 | 12,225,000 | 162 | 785 | -1.196829217 | |
| 16 | 12,150,000 | 12,300,000 | 163 | 674 | -0.183984583 | |
| 16 | 12,225,000 | 12,375,000 | 164 | 900 | -0.040681814 | |
| 16 | 12,300,000 | 12,450,000 | 165 | 655 | 0.309892754 | |
| 16 | 12,375,000 | 12,525,000 | 166 | 656 | -0.201939719 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 12,450,000 | 12,600,000 | 167 | 830 | -1.09352459 | ENSBTAG00000012765 |
| 16 | 12,525,000 | 12,675,000 | 168 | 567 | -2.132459419 | CDC73,ENSBTAG00000012765,ENSBTAG00000046060 |
| 16 | 12,600,000 | 12,750,000 | 169 | 329 | -1.449325083 | B3GALT2,CDC73,ENSBTAG00000046060 |
| 16 | 12,675,000 | 12,825,000 | 170 | 293 | -1.258990977 | B3GALT2,CDC73,GLRX2,TROVE2,UCHL5 |
| 16 | 12,750,000 | 12,900,000 | 171 | 331 | -0.312038922 | GLRX2,TROVE2,UCHL5 |
| 16 | 12,825,000 | 12,975,000 | 172 | 461 | 1.161865833 | UCHL5 |
| 16 | 12,900,000 | 13,050,000 | 173 | 812 | 1.256378447 | RGS2 |
| 16 | 12,975,000 | 13,125,000 | 174 | 769 | 0.993051569 | RGS2 |
| 16 | 13,050,000 | 13,200,000 | 175 | 502 | 0.594646453 | |
| 16 | 13,125,000 | 13,275,000 | 176 | 644 | 1.161838739 | RGS13 |
| 16 | 13,200,000 | 13,350,000 | 177 | 929 | 0.53484893 | RGS1,RGS13 |
| 16 | 13,275,000 | 13,425,000 | 178 | 903 | -0.468561064 | RGS1 |
| 16 | 13,350,000 | 13,500,000 | 179 | 922 | -1.00508484 | |
| 16 | 13,425,000 | 13,575,000 | 180 | 1062 | -0.147410154 | RGS21 |
| 16 | 13,500,000 | 13,650,000 | 181 | 810 | 0.296057447 | RGS21 |
| 16 | 13,575,000 | 13,725,000 | 182 | 1085 | 0.001765781 | |
| 16 | 13,650,000 | 13,800,000 | 183 | 1390 | 0.074507524 | RGS18 |
| 16 | 13,725,000 | 13,875,000 | 184 | 1096 | -0.436063997 | RGS18 |
| 16 | 13,800,000 | 13,950,000 | 185 | 841 | 0.005665171 | |
| 16 | 13,875,000 | 14,025,000 | 186 | 1578 | 1.139076587 | |
| 16 | 13,950,000 | 14,100,000 | 187 | 1903 | 1.089893547 | |
| 16 | 14,025,000 | 14,175,000 | 188 | 1414 | 0.720449133 | |
| 16 | 14,100,000 | 14,250,000 | 189 | 1564 | -0.535355027 | |
| 16 | 14,175,000 | 14,325,000 | 190 | 1267 | -1.679044004 | |
| 16 | 14,250,000 | 14,400,000 | 191 | 833 | -1.393050989 | |
| 16 | 14,325,000 | 14,475,000 | 192 | 1186 | -0.771712026 | |
| 16 | 14,400,000 | 14,550,000 | 193 | 1529 | -0.606840978 | |
| 16 | 14,475,000 | 14,625,000 | 194 | 1233 | -0.231023808 | |
| 16 | 14,550,000 | 14,700,000 | 195 | 762 | 0.575205184 | |
| 16 | 14,625,000 | 14,775,000 | 196 | 838 | 0.875788904 | |
| 16 | 14,700,000 | 14,850,000 | 197 | 1248 | 1.174841248 | |
| 16 | 14,775,000 | 14,925,000 | 198 | 1200 | 1.216213965 | |
| 16 | 14,850,000 | 15,000,000 | 199 | 1198 | -0.133484645 | |
| 16 | 14,925,000 | 15,075,000 | 200 | 1138 | -0.553476003 | |
| 16 | 15,000,000 | 15,150,000 | 201 | 1338 | 0.274507682 | |
| 16 | 15,075,000 | 15,225,000 | 202 | 1454 | -0.198852875 | |
| 16 | 15,150,000 | 15,300,000 | 203 | 1108 | -1.520271978 | |
| 16 | 15,225,000 | 15,375,000 | 204 | 1049 | -0.559477375 | |
| 16 | 15,300,000 | 15,450,000 | 205 | 805 | 0.430689652 | |
| 16 | 15,375,000 | 15,525,000 | 206 | 518 | 0.431019744 | |
| 16 | 15,450,000 | 15,600,000 | 207 | 638 | 0.889745943 | |
| 16 | 15,525,000 | 15,675,000 | 208 | 1132 | 1.071279484 | |
| 16 | 15,600,000 | 15,750,000 | 209 | 1387 | 0.334039756 | |
| 16 | 15,675,000 | 15,825,000 | 210 | 1020 | -0.500088613 | BRINP3 |
| 16 | 15,750,000 | 15,900,000 | 211 | 717 | 0.205802952 | BRINP3 |
| 16 | 15,825,000 | 15,975,000 | 212 | 601 | 0.340552925 | BRINP3 |
| 16 | 15,900,000 | 16,050,000 | 213 | 900 | -0.42352214 | BRINP3 |
| 16 | 15,975,000 | 16,125,000 | 214 | 1190 | -0.083284344 | BRINP3 |
| 16 | 16,050,000 | 16,200,000 | 215 | 1300 | 0.699098648 | BRINP3 |
| 16 | 16,125,000 | 16,275,000 | 216 | 1635 | 0.034822588 | BRINP3 |
| 16 | 16,200,000 | 16,350,000 | 217 | 1700 | -0.294549788 | BRINP3 |
| 16 | 16,275,000 | 16,425,000 | 218 | 1613 | -0.034132602 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 16 | 16,350,000 | 16,500,000 | 219 | 1399 | 0.155795609 | |
| 16 | 16,425,000 | 16,575,000 | 220 | 1186 | 0.430598552 | |
| 16 | 16,500,000 | 16,650,000 | 221 | 969 | 0.309318087 | |
| 16 | 16,575,000 | 16,725,000 | 222 | 801 | -0.224300042 | |
| 16 | 16,650,000 | 16,800,000 | 223 | 633 | -0.314806782 | |
| 16 | 16,725,000 | 16,875,000 | 224 | 599 | -2.004277527 | |
| 16 | 16,800,000 | 16,950,000 | 225 | 981 | -0.670598425 | |
| 16 | 16,875,000 | 17,025,000 | 226 | 1573 | 0.868961529 | |
| 16 | 16,950,000 | 17,100,000 | 227 | 2005 | 0.463478693 | |
| 16 | 17,025,000 | 17,175,000 | 228 | 1724 | 0.237094413 | |
| 16 | 17,100,000 | 17,250,000 | 229 | 1656 | -0.249926368 | |
| 16 | 17,175,000 | 17,325,000 | 230 | 1980 | -0.697632528 | |
| 16 | 17,250,000 | 17,400,000 | 231 | 1934 | -1.01320723 | |
| 16 | 17,325,000 | 17,475,000 | 232 | 1578 | -1.740087262 | |
| 16 | 17,400,000 | 17,550,000 | 233 | 1101 | -2.029393449 | |
| 16 | 17,475,000 | 17,625,000 | 234 | 1045 | 0.274261526 | |
| 16 | 17,550,000 | 17,700,000 | 235 | 786 | 0.946735491 | |
| 16 | 17,625,000 | 17,775,000 | 236 | 699 | 0.637930736 | |
| 16 | 17,700,000 | 17,850,000 | 237 | 1215 | 1.219706534 | |
| 16 | 17,775,000 | 17,925,000 | 238 | 1019 | 1.021200182 | |
| 16 | 17,850,000 | 18,000,000 | 239 | 762 | -1.144257283 | |
| 16 | 17,925,000 | 18,075,000 | 240 | 948 | -1.50847618 | |
| 16 | 18,000,000 | 18,150,000 | 241 | 1182 | -0.362967817 | |
| 16 | 18,075,000 | 18,225,000 | 242 | 1129 | 0.55801129 | |
| 16 | 18,150,000 | 18,300,000 | 243 | 1164 | -1.643451433 | |
| 16 | 18,225,000 | 18,375,000 | 244 | 1248 | -2.74374906 | |
| 16 | 18,300,000 | 18,450,000 | 245 | 969 | -1.924430476 | ENSBTAG00000046655 |
| 16 | 18,375,000 | 18,525,000 | 246 | 795 | -0.361194285 | ENSBTAG00000046655 |
| 16 | 18,450,000 | 18,600,000 | 247 | 521 | 0.389947093 | |
| 16 | 18,525,000 | 18,675,000 | 248 | 748 | 0.379301992 | |
| 16 | 18,600,000 | 18,750,000 | 249 | 1023 | 0.039381061 | |
| 16 | 18,675,000 | 18,825,000 | 250 | 886 | -0.242608299 | |
| 16 | 18,750,000 | 18,900,000 | 251 | 882 | 0.749831772 | |
| 16 | 18,825,000 | 18,975,000 | 252 | 803 | 0.802484268 | |
| 16 | 18,900,000 | 19,050,000 | 253 | 832 | 0.850266194 | |
| 16 | 18,975,000 | 19,125,000 | 254 | 959 | -0.965733872 | |
| 16 | 19,050,000 | 19,200,000 | 255 | 1386 | -3.281562814 | |
| 16 | 19,125,000 | 19,275,000 | 256 | 1451 | -1.842363372 | |
| 16 | 19,200,000 | 19,350,000 | 257 | 879 | -1.27580048 | |
| 16 | 19,275,000 | 19,425,000 | 258 | 718 | -1.446063366 | |
| 16 | 19,350,000 | 19,500,000 | 259 | 744 | 0.385596894 | |
| 16 | 19,425,000 | 19,575,000 | 260 | 749 | 0.043526761 | KCTD3,USH2A |
| 16 | 19,500,000 | 19,650,000 | 261 | 872 | -0.025340295 | KCTD3,USH2A |
| 16 | 19,575,000 | 19,725,000 | 262 | 1161 | 0.95271624 | USH2A |
| 16 | 19,650,000 | 19,800,000 | 263 | 1273 | 1.090930921 | USH2A |
| 16 | 19,725,000 | 19,875,000 | 264 | 1167 | 0.995609094 | USH2A |
| 16 | 19,800,000 | 19,950,000 | 265 | 862 | 0.589779146 | USH2A,ENSBTAG00000007997 |
| 16 | 19,875,000 | 20,025,000 | 266 | 767 | -2.068486187 | USH2A,ENSBTAG00000007997 |
| 16 | 19,950,000 | 20,100,000 | 267 | 1016 | -3.568642857 | USH2A |
| 16 | 20,025,000 | 20,175,000 | 268 | 1286 | -3.51077527 | USH2A |
| 16 | 20,100,000 | 20,250,000 | 269 | 1251 | -2.950044355 | USH2A |
| 16 | 20,175,000 | 20,325,000 | 270 | 1232 | -1.180997815 | USH2A |
| 16 | 20,250,000 | 20,400,000 | 271 | 1342 | 0.353871364 | USH2A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 16 | 20,325,000 | 20,475,000 | 272 | 1233 | 0.824129185 | USH2A |
| 16 | 20,400,000 | 20,550,000 | 273 | 1330 | 0.781124595 | USH2A |
| 16 | 20,475,000 | 20,625,000 | 274 | 1112 | 0.238781633 | ESRRG,USH2A |
| 16 | 20,550,000 | 20,700,000 | 275 | 797 | -0.012600522 | ESRRG |
| 16 | 20,625,000 | 20,775,000 | 276 | 964 | 0.272808599 | ESRRG |
| 16 | 20,700,000 | 20,850,000 | 277 | 835 | 0.634907811 | ESRRG |
| 16 | 20,775,000 | 20,925,000 | 278 | 509 | 0.529540152 | ESRRG |
| 16 | 20,850,000 | 21,000,000 | 279 | 577 | 0.343686921 | |
| 16 | 20,925,000 | 21,075,000 | 280 | 731 | -0.28477606 | |
| 16 | 21,000,000 | 21,150,000 | 281 | 868 | 0.030320322 | |
| 16 | 21,075,000 | 21,225,000 | 282 | 904 | 0.104777974 | |
| 16 | 21,150,000 | 21,300,000 | 283 | 795 | -1.168746745 | |
| 16 | 21,225,000 | 21,375,000 | 284 | 538 | -1.708004592 | |
| 16 | 21,300,000 | 21,450,000 | 285 | 863 | 0.320578411 | |
| 16 | 21,375,000 | 21,525,000 | 286 | 963 | 0.596637004 | |
| 16 | 21,450,000 | 21,600,000 | 287 | 750 | 0.365760078 | |
| 16 | 21,525,000 | 21,675,000 | 288 | 1159 | 0.508532871 | |
| 16 | 21,600,000 | 21,750,000 | 289 | 1088 | 0.174778951 | |
| 16 | 21,675,000 | 21,825,000 | 290 | 1151 | -0.377862413 | GPATCH2 |
| 16 | 21,750,000 | 21,900,000 | 291 | 1362 | 0.1286099 | GPATCH2 |
| 16 | 21,825,000 | 21,975,000 | 292 | 1083 | 0.633932472 | |
| 16 | 21,900,000 | 22,050,000 | 293 | 1116 | 1.040203546 | |
| 16 | 21,975,000 | 22,125,000 | 294 | 1278 | 1.042502215 | |
| 16 | 22,050,000 | 22,200,000 | 295 | 1230 | 0.561416191 | |
| 16 | 22,125,000 | 22,275,000 | 296 | 1384 | 0.298873749 | |
| 16 | 22,200,000 | 22,350,000 | 297 | 1173 | 0.542281178 | |
| 16 | 22,275,000 | 22,425,000 | 298 | 618 | 1.070767642 | |
| 16 | 22,350,000 | 22,500,000 | 299 | 399 | 1.207548397 | RRP15,TGFB2 |
| 16 | 22,425,000 | 22,575,000 | 300 | 543 | 0.518863416 | RRP15,TGFB2 |
| 16 | 22,500,000 | 22,650,000 | 301 | 571 | 0.606436808 | TGFB2 |
| 16 | 22,575,000 | 22,725,000 | 302 | 496 | 1.402218998 | TGFB2 |
| 16 | 22,650,000 | 22,800,000 | 303 | 618 | 1.299244401 | |
| 16 | 22,725,000 | 22,875,000 | 304 | 476 | 1.165649054 | |
| 16 | 22,800,000 | 22,950,000 | 305 | 278 | 1.14805296 | |
| 16 | 22,875,000 | 23,025,000 | 306 | 349 | 0.888372082 | |
| 16 | 22,950,000 | 23,100,000 | 307 | 432 | 0.231468084 | |
| 16 | 23,025,000 | 23,175,000 | 308 | 460 | -1.082629995 | |
| 16 | 23,100,000 | 23,250,000 | 309 | 836 | -2.019872104 | |
| 16 | 23,175,000 | 23,325,000 | 310 | 889 | -2.020582636 | |
| 16 | 23,250,000 | 23,400,000 | 311 | 578 | -1.235887204 | LYPLAL1 |
| 16 | 23,325,000 | 23,475,000 | 312 | 521 | -0.505761011 | LYPLAL1 |
| 16 | 23,400,000 | 23,550,000 | 313 | 670 | 0.512722564 | |
| 16 | 23,475,000 | 23,625,000 | 314 | 601 | 0.499928011 | |
| 16 | 23,550,000 | 23,700,000 | 315 | 386 | -0.428539041 | |
| 16 | 23,625,000 | 23,775,000 | 316 | 430 | -0.467001388 | |
| 16 | 23,700,000 | 23,850,000 | 317 | 477 | -0.440431035 | |
| 16 | 23,775,000 | 23,925,000 | 318 | 580 | -0.253511271 | |
| 16 | 23,850,000 | 24,000,000 | 319 | 1214 | -0.124481395 | |
| 16 | 23,925,000 | 24,075,000 | 320 | 1041 | -0.096955024 | |
| 16 | 24,000,000 | 24,150,000 | 321 | 463 | -0.021118221 | SLC30A10 |
| 16 | 24,075,000 | 24,225,000 | 322 | 481 | 0.156918175 | EPRS,SLC30A10 |
| 16 | 24,150,000 | 24,300,000 | 323 | 630 | -1.771369444 | BPNT1,EPRS,IARS2 |
| 16 | 24,225,000 | 24,375,000 | 324 | 807 | -2.119822633 | BPNT1,EPRS,IARS2,RAB3GAP2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 16 | 24,300,000 | 24,450,000 | 325 | 580 | -0.70591357 | IARS2,RAB3GAP2 |
| 16 | 24,375,000 | 24,525,000 | 326 | 573 | 1.061359926 | RAB3GAP2 |
| 16 | 24,450,000 | 24,600,000 | 327 | 619 | 0.53950712 | |
| 16 | 24,525,000 | 24,675,000 | 328 | 768 | -1.520333593 | |
| 16 | 24,600,000 | 24,750,000 | 329 | 721 | -1.740628742 | |
| 16 | 24,675,000 | 24,825,000 | 330 | 385 | -1.22849866 | MARK1 |
| 16 | 24,750,000 | 24,900,000 | 331 | 401 | -0.292560482 | C16H1orf115,MARK1 |
| 16 | 24,825,000 | 24,975,000 | 332 | 601 | 0.571296147 | C16H1orf115,MARC2,MARK1 |
| 16 | 24,900,000 | 25,050,000 | 333 | 604 | -0.040991668 | MARC1,MARC2 |
| 16 | 24,975,000 | 25,125,000 | 334 | 442 | -1.137982271 | HLX,MARC1 |
| 16 | 25,050,000 | 25,200,000 | 335 | 541 | -0.008757123 | HLX |
| 16 | 25,125,000 | 25,275,000 | 336 | 570 | 0.497013506 | |
| 16 | 25,200,000 | 25,350,000 | 337 | 431 | 0.702108867 | |
| 16 | 25,275,000 | 25,425,000 | 338 | 373 | 0.347791225 | |
| 16 | 25,350,000 | 25,500,000 | 339 | 300 | 0.367642715 | |
| 16 | 25,425,000 | 25,575,000 | 340 | 338 | 0.932633253 | |
| 16 | 25,500,000 | 25,650,000 | 341 | 484 | 1.041278788 | |
| 16 | 25,575,000 | 25,725,000 | 342 | 682 | 0.002479166 | |
| 16 | 25,650,000 | 25,800,000 | 343 | 647 | -1.267160537 | |
| 16 | 25,725,000 | 25,875,000 | 344 | 435 | -0.399934496 | |
| 16 | 25,800,000 | 25,950,000 | 345 | 423 | 0.904066546 | DUSP10 |
| 16 | 25,875,000 | 26,025,000 | 346 | 502 | 1.121171584 | DUSP10 |
| 16 | 25,950,000 | 26,100,000 | 347 | 515 | 0.562051809 | |
| 16 | 26,025,000 | 26,175,000 | 348 | 427 | -0.246955705 | |
| 16 | 26,100,000 | 26,250,000 | 349 | 397 | -0.377296274 | |
| 16 | 26,175,000 | 26,325,000 | 350 | 373 | 0.059526302 | |
| 16 | 26,250,000 | 26,400,000 | 351 | 534 | 1.490122859 | |
| 16 | 26,325,000 | 26,475,000 | 352 | 849 | 1.5339994 | |
| 16 | 26,400,000 | 26,550,000 | 353 | 960 | 1.447346549 | |
| 16 | 26,475,000 | 26,625,000 | 354 | 833 | 1.367585591 | |
| 16 | 26,550,000 | 26,700,000 | 355 | 1144 | 1.402070886 | |
| 16 | 26,625,000 | 26,775,000 | 356 | 1713 | 1.416706442 | HHIPL2,TAF1A |
| 16 | 26,700,000 | 26,850,000 | 357 | 1338 | 1.3467916 | HHIPL2,MIA3,TAF1A |
| 16 | 26,775,000 | 26,925,000 | 358 | 864 | 1.016558866 | AIDA,BROX,MIA3,TAF1A |
| 16 | 26,850,000 | 27,000,000 | 359 | 958 | 0.605399835 | AIDA,BROX,MIA3 |
| 16 | 26,925,000 | 27,075,000 | 360 | 1021 | -0.593370117 | AUH,BROX |
| 16 | 27,000,000 | 27,150,000 | 361 | 967 | -0.829655669 | AUH |
| 16 | 27,075,000 | 27,225,000 | 362 | 974 | 0.148314043 | DISP1 |
| 16 | 27,150,000 | 27,300,000 | 363 | 968 | 0.267635049 | DISP1 |
| 16 | 27,225,000 | 27,375,000 | 364 | 1111 | -0.10461773 | TLR5 |
| 16 | 27,300,000 | 27,450,000 | 365 | 1251 | -1.107048468 | SUSD4,TLR5 |
| 16 | 27,375,000 | 27,525,000 | 366 | 1082 | -1.256924833 | SUSD4 |
| 16 | 27,450,000 | 27,600,000 | 367 | 979 | -1.001465682 | CCDC185,SUSD4 |
| 16 | 27,525,000 | 27,675,000 | 368 | 1036 | -0.726039838 | CCDC185 |
| 16 | 27,600,000 | 27,750,000 | 369 | 1107 | 0.888276049 | MGC151839 |
| 16 | 27,675,000 | 27,825,000 | 370 | 1139 | 0.574415375 | CAPN2,MGC151839 |
| 16 | 27,750,000 | 27,900,000 | 371 | 1121 | -0.746744896 | CAPN2,TP53BP2 |
| 16 | 27,825,000 | 27,975,000 | 372 | 782 | -0.761000897 | CAPN2,TP53BP2 |
| 16 | 27,900,000 | 28,050,000 | 373 | 482 | 0.397591458 | FBXO28,ENSBTAG00000022942 |
| 16 | 27,975,000 | 28,125,000 | 374 | 472 | 0.935362416 | DEGS1,FBXO28,NVL,ENSBTAG00000022942 |
| 16 | 28,050,000 | 28,200,000 | 375 | 398 | 1.004147035 | DEGS1,NVL |
| 16 | 28,125,000 | 28,275,000 | 376 | 350 | 0.025941766 | CNIH4,NVL,WDR26 |
| 16 | 28,200,000 | 28,350,000 | 377 | 426 | -0.033754536 | CNIH4,NVL,WDR26 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 28,275,000 | 28,425,000 | 378 | 788 | 0.405672044 | WDR26 |
| 16 | 28,350,000 | 28,500,000 | 379 | 1338 | 0.575155694 | CNIH3 |
| 16 | 28,425,000 | 28,575,000 | 380 | 1008 | 0.513067767 | CNIH3 |
| 16 | 28,500,000 | 28,650,000 | 381 | 805 | 0.903775005 | CNIH3 |
| 16 | 28,575,000 | 28,725,000 | 382 | 1031 | 0.756090005 | CNIH3 |
| 16 | 28,650,000 | 28,800,000 | 383 | 1217 | -1.492307376 | |
| 16 | 28,725,000 | 28,875,000 | 384 | 1261 | -2.180590827 | |
| 16 | 28,800,000 | 28,950,000 | 385 | 1055 | -0.16674418 | |
| 16 | 28,875,000 | 29,025,000 | 386 | 1300 | -1.569626163 | |
| 16 | 28,950,000 | 29,100,000 | 387 | 926 | -2.134006454 | ENSBTAG00000008449 |
| 16 | 29,025,000 | 29,175,000 | 388 | 678 | -0.303843808 | LBR,ENSBTAG00000008449 |
| 16 | 29,100,000 | 29,250,000 | 389 | 746 | -1.443006663 | ENAH,LBR,ENSBTAG00000008449 |
| 16 | 29,175,000 | 29,325,000 | 390 | 423 | -3.080730734 | ENAH,LBR |
| 16 | 29,250,000 | 29,400,000 | 391 | 789 | -1.202322678 | ENAH |
| 16 | 29,325,000 | 29,475,000 | 392 | 970 | -0.583330164 | ENAH |
| 16 | 29,400,000 | 29,550,000 | 393 | 762 | 0.133538271 | ENAH |
| 16 | 29,475,000 | 29,625,000 | 394 | 748 | 0.336521077 | EPHX1,SRP9,TMEM63A |
| 16 | 29,550,000 | 29,700,000 | 395 | 665 | -1.491116859 | EPHX1,PYCR2,SRP9,TMEM63A,ENSBTAG00000002855 |
| 16 | 29,625,000 | 29,775,000 | 396 | 490 | -2.615278634 | PYCR2,SDE2,TMEM63A,ENSBTAG00000002855,ENSBTAG000000037896 |
| 16 | 29,700,000 | 29,850,000 | 397 | 273 | -2.826638143 | H3F3A,SDE2,ENSBTAG000000037896 |
| 16 | 29,775,000 | 29,925,000 | 398 | 553 | -2.764021819 | ACBD3,H3F3A |
| 16 | 29,850,000 | 30,000,000 | 399 | 875 | -0.762481696 | ACBD3,LIN9,MIXL1 |
| 16 | 29,925,000 | 30,075,000 | 400 | 720 | -0.000375839 | ACBD3,LIN9,MIXL1 |
| 16 | 30,000,000 | 30,150,000 | 401 | 751 | 0.837723685 | LIN9,PARP1 |
| 16 | 30,075,000 | 30,225,000 | 402 | 1121 | 0.56273257 | PARP1,ENSBTAG000000047233 |
| 16 | 30,150,000 | 30,300,000 | 403 | 1332 | 0.097170827 | PARP1,ENSBTAG000000047233 |
| 16 | 30,225,000 | 30,375,000 | 404 | 1081 | -0.155766087 | MGC151592 |
| 16 | 30,300,000 | 30,450,000 | 405 | 732 | -0.373829311 | ITPKB,MGC151592,ENSBTAG000000033252 |
| 16 | 30,375,000 | 30,525,000 | 406 | 669 | -0.155627022 | ITPKB,ENSBTAG000000033252 |
| 16 | 30,450,000 | 30,600,000 | 407 | 574 | -0.923561754 | ITPKB,PSEN2 |
| 16 | 30,525,000 | 30,675,000 | 408 | 775 | -1.735019462 | ADCK3,PSEN2 |
| 16 | 30,600,000 | 30,750,000 | 409 | 864 | -1.068907391 | ADCK3,CDC42BPA,PSEN2 |
| 16 | 30,675,000 | 30,825,000 | 410 | 602 | 0.602760274 | ADCK3,CDC42BPA |
| 16 | 30,750,000 | 30,900,000 | 411 | 576 | -0.161058797 | CDC42BPA |
| 16 | 30,825,000 | 30,975,000 | 412 | 848 | -0.120795848 | CDC42BPA |
| 16 | 30,900,000 | 31,050,000 | 413 | 716 | -0.063036841 | CDC42BPA |
| 16 | 30,975,000 | 31,125,000 | 414 | 283 | -0.225465879 | CDC42BPA |
| 16 | 31,050,000 | 31,200,000 | 415 | 298 | 0.24291982 | AHCTF1 |
| 16 | 31,125,000 | 31,275,000 | 416 | 404 | 0.590559754 | AHCTF1 |
| 16 | 31,200,000 | 31,350,000 | 417 | 835 | 1.187409687 | AHCTF1,SCCPDH |
| 16 | 31,275,000 | 31,425,000 | 418 | 1277 | 1.270954355 | H3F3C,SCCPDH |
| 16 | 31,350,000 | 31,500,000 | 419 | 1087 | 1.190577847 | CNST,H3F3C,SCCPDH |
| 16 | 31,425,000 | 31,575,000 | 420 | 721 | 0.357241827 | CNST,TFB2M |
| 16 | 31,500,000 | 31,650,000 | 421 | 695 | -1.116061779 | CNST,SMYD3,TFB2M |
| 16 | 31,575,000 | 31,725,000 | 422 | 678 | -1.498237636 | SMYD3 |
| 16 | 31,650,000 | 31,800,000 | 423 | 634 | -0.921658073 | SMYD3 |
| 16 | 31,725,000 | 31,875,000 | 424 | 694 | 0.224255296 | SMYD3 |
| 16 | 31,800,000 | 31,950,000 | 425 | 628 | 0.54698892 | SMYD3 |
| 16 | 31,875,000 | 32,025,000 | 426 | 598 | -0.243057261 | SMYD3 |
| 16 | 31,950,000 | 32,100,000 | 427 | 645 | 0.044983911 | SMYD3 |
| 16 | 32,025,000 | 32,175,000 | 428 | 982 | 0.669498567 | SMYD3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 32,100,000 | 32,250,000 | 429 | 1100 | 0.416227728 | SMYD3 |
| 16 | 32,175,000 | 32,325,000 | 430 | 906 | -0.206683987 | SMYD3 |
| 16 | 32,250,000 | 32,400,000 | 431 | 771 | 0.11727611 | KIF26B,SMYD3 |
| 16 | 32,325,000 | 32,475,000 | 432 | 1190 | -0.145891553 | KIF26B,SMYD3 |
| 16 | 32,400,000 | 32,550,000 | 433 | 1566 | 0.17270012 | KIF26B |
| 16 | 32,475,000 | 32,625,000 | 434 | 1167 | 0.696396077 | |
| 16 | 32,550,000 | 32,700,000 | 435 | 769 | 0.505514179 | |
| 16 | 32,625,000 | 32,775,000 | 436 | 793 | -0.094834922 | |
| 16 | 32,700,000 | 32,850,000 | 437 | 976 | 0.067637718 | |
| 16 | 32,775,000 | 32,925,000 | 438 | 895 | -0.113623943 | |
| 16 | 32,850,000 | 33,000,000 | 439 | 1161 | 0.450143246 | EFCAB2 |
| 16 | 32,925,000 | 33,075,000 | 440 | 1573 | 0.899009259 | EFCAB2 |
| 16 | 33,000,000 | 33,150,000 | 441 | 1600 | 0.807840683 | EFCAB2 |
| 16 | 33,075,000 | 33,225,000 | 442 | 1570 | 0.976228557 | FAM36A,HNRNPU |
| 16 | 33,150,000 | 33,300,000 | 443 | 1603 | 1.211757183 | FAM36A,HNRNPU,PPPDE1 |
| 16 | 33,225,000 | 33,375,000 | 444 | 1574 | 0.677863858 | C1orf101,PPPDE1 |
| 16 | 33,300,000 | 33,450,000 | 445 | 1814 | -0.562611819 | C1orf101,PPPDE1 |
| 16 | 33,375,000 | 33,525,000 | 446 | 1989 | -0.125487872 | C1orf101 |
| 16 | 33,450,000 | 33,600,000 | 447 | 1776 | -0.203404749 | ADSS,C1orf100,C1orf101 |
| 16 | 33,525,000 | 33,675,000 | 448 | 1951 | -0.715439779 | ADSS,C1orf100 |
| 16 | 33,600,000 | 33,750,000 | 449 | 1818 | -0.289674023 | |
| 16 | 33,675,000 | 33,825,000 | 450 | 1260 | 0.489101141 | |
| 16 | 33,750,000 | 33,900,000 | 451 | 1083 | 1.231193317 | |
| 16 | 33,825,000 | 33,975,000 | 452 | 879 | 1.198822406 | ZBTB18 |
| 16 | 33,900,000 | 34,050,000 | 453 | 1044 | 0.843192638 | ZBTB18 |
| 16 | 33,975,000 | 34,125,000 | 454 | 1241 | 0.78032527 | |
| 16 | 34,050,000 | 34,200,000 | 455 | 1178 | 0.893403651 | AKT3 |
| 16 | 34,125,000 | 34,275,000 | 456 | 1422 | 0.304520358 | AKT3 |
| 16 | 34,200,000 | 34,350,000 | 457 | 1497 | 0.057744188 | AKT3 |
| 16 | 34,275,000 | 34,425,000 | 458 | 1210 | 0.399249272 | AKT3,SDCCAG8 |
| 16 | 34,350,000 | 34,500,000 | 459 | 1235 | 0.446578052 | AKT3,SDCCAG8 |
| 16 | 34,425,000 | 34,575,000 | 460 | 1277 | 0.680557201 | SDCCAG8 |
| 16 | 34,500,000 | 34,650,000 | 461 | 907 | 1.233488392 | SDCCAG8 |
| 16 | 34,575,000 | 34,725,000 | 462 | 637 | 0.967180276 | CEP170,SDCCAG8 |
| 16 | 34,650,000 | 34,800,000 | 463 | 513 | 0.656794316 | CEP170,SDCCAG8 |
| 16 | 34,725,000 | 34,875,000 | 464 | 932 | 0.727961135 | CEP170 |
| 16 | 34,800,000 | 34,950,000 | 465 | 1356 | 0.712296675 | |
| 16 | 34,875,000 | 35,025,000 | 466 | 1454 | 0.931217935 | |
| 16 | 34,950,000 | 35,100,000 | 467 | 1429 | 0.486356032 | |
| 16 | 35,025,000 | 35,175,000 | 468 | 1200 | -3.99166739 | |
| 16 | 35,100,000 | 35,250,000 | 469 | 1133 | -4.649909616 | |
| 16 | 35,175,000 | 35,325,000 | 470 | 1157 | -1.179081466 | |
| 16 | 35,250,000 | 35,400,000 | 471 | 1050 | 0.125559905 | |
| 16 | 35,325,000 | 35,475,000 | 472 | 1325 | -0.032064517 | PLD5 |
| 16 | 35,400,000 | 35,550,000 | 473 | 1954 | 0.856668929 | PLD5 |
| 16 | 35,475,000 | 35,625,000 | 474 | 1643 | 1.235334573 | PLD5 |
| 16 | 35,550,000 | 35,700,000 | 475 | 974 | 0.687405677 | PLD5,ENSBTAG00000013700 |
| 16 | 35,625,000 | 35,775,000 | 476 | 863 | -1.017555288 | EXO1,MAP1LC3C,PLD5,ENSBTAG00000013700 |
| 16 | 35,700,000 | 35,850,000 | 477 | 1031 | -1.300353164 | EXO1,MAP1LC3C,WDR64,ENSBTAG00000013700 |
| 16 | 35,775,000 | 35,925,000 | 478 | 1133 | -1.002905185 | EXO1,WDR64 |
| 16 | 35,850,000 | 36,000,000 | 479 | 981 | -0.209121666 | CHML,KMO,WDR64 |
| 16 | 35,925,000 | 36,075,000 | 480 | 1025 | 0.201696525 | CHML,FH,KMO,WDR64 |
| 16 | 36,000,000 | 36,150,000 | 481 | 1268 | 0.20741295 | FH,KMO |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 16 | 36,075,000 | 36,225,000 | 482 | 1171 | 0.448963863 | FH,RGS7 |
| 16 | 36,150,000 | 36,300,000 | 483 | 694 | 0.489890009 | RGS7 |
| 16 | 36,225,000 | 36,375,000 | 484 | 618 | 1.430059632 | RGS7 |
| 16 | 36,300,000 | 36,450,000 | 485 | 1007 | 1.441162126 | RGS7 |
| 16 | 36,375,000 | 36,525,000 | 486 | 1098 | 1.083747732 | RGS7 |
| 16 | 36,450,000 | 36,600,000 | 487 | 621 | 0.556267759 | RGS7 |
| 16 | 36,525,000 | 36,675,000 | 488 | 273 | -0.458835428 | RGS7 |
| 16 | 36,600,000 | 36,750,000 | 489 | 430 | -0.446793415 | RGS7 |
| 16 | 36,675,000 | 36,825,000 | 490 | 625 | -1.730090657 | RGS7 |
| 16 | 36,750,000 | 36,900,000 | 491 | 611 | -0.789621998 | |
| 16 | 36,825,000 | 36,975,000 | 492 | 723 | 0.671178764 | ENSBTAG00000009943 |
| 16 | 36,900,000 | 37,050,000 | 493 | 929 | 0.588525844 | XCL1,ENSBTAG00000009943 |
| 16 | 36,975,000 | 37,125,000 | 494 | 790 | -0.128686144 | DPT,XCL1 |
| 16 | 37,050,000 | 37,200,000 | 495 | 836 | -1.292309888 | DPT |
| 16 | 37,125,000 | 37,275,000 | 496 | 762 | -1.171901416 | DPT |
| 16 | 37,200,000 | 37,350,000 | 497 | 763 | -0.422271117 | |
| 16 | 37,275,000 | 37,425,000 | 498 | 880 | -0.253171388 | |
| 16 | 37,350,000 | 37,500,000 | 499 | 537 | -0.410963268 | |
| 16 | 37,425,000 | 37,575,000 | 500 | 360 | -0.778444376 | ATP1B1 |
| 16 | 37,500,000 | 37,650,000 | 501 | 474 | 1.036664428 | ATP1B1,NME7 |
| 16 | 37,575,000 | 37,725,000 | 502 | 803 | 1.259787095 | ATP1B1,NME7 |
| 16 | 37,650,000 | 37,800,000 | 503 | 954 | 1.125483203 | NME7 |
| 16 | 37,725,000 | 37,875,000 | 504 | 939 | 0.449629705 | BLZF1,NME7 |
| 16 | 37,800,000 | 37,950,000 | 505 | 925 | -0.013548977 | BLZF1,CCDC181,NME7,SLC19A2 |
| 16 | 37,875,000 | 38,025,000 | 506 | 1057 | -0.001317382 | CCDC181,F5,SLC19A2 |
| 16 | 37,950,000 | 38,100,000 | 507 | 1360 | -1.224569283 | F5,SELP |
| 16 | 38,025,000 | 38,175,000 | 508 | 1176 | -1.621364041 | F5,SELL,SELP |
| 16 | 38,100,000 | 38,250,000 | 509 | 705 | -0.619443935 | METTTL18,SELE,SELL |
| 16 | 38,175,000 | 38,325,000 | 510 | 661 | 0.448135228 | C1orf112,METTTL18,SCYL3,SELE |
| 16 | 38,250,000 | 38,400,000 | 511 | 801 | 0.394120186 | C1orf112,KIFAP3,SCYL3 |
| 16 | 38,325,000 | 38,475,000 | 512 | 642 | -0.088334118 | KIFAP3,SCYL3 |
| 16 | 38,400,000 | 38,550,000 | 513 | 634 | 0.414414836 | KIFAP3 |
| 16 | 38,475,000 | 38,625,000 | 514 | 858 | 0.397196776 | KIFAP3,METTTL11B |
| 16 | 38,550,000 | 38,700,000 | 515 | 1132 | 0.167640793 | METTTL11B |
| 16 | 38,625,000 | 38,775,000 | 516 | 1334 | 0.182904613 | |
| 16 | 38,700,000 | 38,850,000 | 517 | 1306 | 0.29692045 | |
| 16 | 38,775,000 | 38,925,000 | 518 | 1424 | 0.350638596 | GORAB |
| 16 | 38,850,000 | 39,000,000 | 519 | 1178 | 0.257889047 | GORAB |
| 16 | 38,925,000 | 39,075,000 | 520 | 781 | 0.449255778 | PRRX1 |
| 16 | 39,000,000 | 39,150,000 | 521 | 582 | 0.900446208 | PRRX1 |
| 16 | 39,075,000 | 39,225,000 | 522 | 379 | 0.866489302 | PRRX1 |
| 16 | 39,150,000 | 39,300,000 | 523 | 375 | 0.864969304 | |
| 16 | 39,225,000 | 39,375,000 | 524 | 664 | 0.757081186 | MROH9 |
| 16 | 39,300,000 | 39,450,000 | 525 | 663 | 0.430117539 | MROH9 |
| 16 | 39,375,000 | 39,525,000 | 526 | 424 | 0.066030296 | FMO3,MROH9 |
| 16 | 39,450,000 | 39,600,000 | 527 | 433 | 0.299619372 | FMO3,FMO6P |
| 16 | 39,525,000 | 39,675,000 | 528 | 635 | 0.475457954 | FMO1,FMO2,FMO3,FMO6P |
| 16 | 39,600,000 | 39,750,000 | 529 | 979 | 0.681816855 | FMO1,FMO2,FMO4 |
| 16 | 39,675,000 | 39,825,000 | 530 | 852 | 1.041472604 | FMO1,FMO4 |
| 16 | 39,750,000 | 39,900,000 | 531 | 504 | 1.351709429 | FMO4,PRRC2C |
| 16 | 39,825,000 | 39,975,000 | 532 | 413 | 1.385331723 | MYOC,PRRC2C |
| 16 | 39,900,000 | 40,050,000 | 533 | 689 | 1.147026619 | METTTL13,MYOC,PRRC2C,VAMP4 |
| 16 | 39,975,000 | 40,125,000 | 534 | 940 | 0.941847739 | DNM3,METTTL13,VAMP4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 40,050,000 | 40,200,000 | 535 | 868 | 0.238658297 | DNM3,METTL13 |
| 16 | 40,125,000 | 40,275,000 | 536 | 787 | -0.785619743 | DNM3 |
| 16 | 40,200,000 | 40,350,000 | 537 | 671 | -1.051863186 | DNM3 |
| 16 | 40,275,000 | 40,425,000 | 538 | 487 | -0.180174625 | DNM3 |
| 16 | 40,350,000 | 40,500,000 | 539 | 641 | 0.863978957 | DNM3 |
| 16 | 40,425,000 | 40,575,000 | 540 | 920 | 1.110887124 | DNM3 |
| 16 | 40,500,000 | 40,650,000 | 541 | 678 | 1.132341384 | |
| 16 | 40,575,000 | 40,725,000 | 542 | 326 | 1.27013971 | |
| 16 | 40,650,000 | 40,800,000 | 543 | 437 | 0.961910587 | PIGC |
| 16 | 40,725,000 | 40,875,000 | 544 | 923 | 0.751324417 | PIGC |
| 16 | 40,800,000 | 40,950,000 | 545 | 868 | 0.446803436 | SUCO |
| 16 | 40,875,000 | 41,025,000 | 546 | 528 | -1.160975776 | SUCO |
| 16 | 40,950,000 | 41,100,000 | 547 | 625 | -0.378714019 | FASLG,SUCO |
| 16 | 41,025,000 | 41,175,000 | 548 | 708 | 0.511999643 | FASLG,ENSBTAG00000016347 |
| 16 | 41,100,000 | 41,250,000 | 549 | 542 | 0.581587532 | ENSBTAG00000016347 |
| 16 | 41,175,000 | 41,325,000 | 550 | 436 | 0.534938391 | |
| 16 | 41,250,000 | 41,400,000 | 551 | 506 | 0.378466913 | |
| 16 | 41,325,000 | 41,475,000 | 552 | 541 | 0.931912011 | |
| 16 | 41,400,000 | 41,550,000 | 553 | 637 | 1.31074021 | TNFSF18 |
| 16 | 41,475,000 | 41,625,000 | 554 | 664 | 1.179035603 | TNFSF18 |
| 16 | 41,550,000 | 41,700,000 | 555 | 411 | 1.124276182 | TNFSF18,TNFSF4 |
| 16 | 41,625,000 | 41,775,000 | 556 | 187 | 1.075177988 | TNFSF4 |
| 16 | 41,700,000 | 41,850,000 | 557 | 225 | 0.892558333 | TNFSF4 |
| 16 | 41,775,000 | 41,925,000 | 558 | 288 | 1.000462365 | |
| 16 | 41,850,000 | 42,000,000 | 559 | 375 | 0.639616378 | DHRS3 |
| 16 | 41,925,000 | 42,075,000 | 560 | 373 | 0.78932946 | DHRS3 |
| 16 | 42,000,000 | 42,150,000 | 561 | 248 | 0.924536253 | DHRS3,VPS13D |
| 16 | 42,075,000 | 42,225,000 | 562 | 232 | 0.590165938 | VPS13D |
| 16 | 42,150,000 | 42,300,000 | 563 | 237 | 0.392361609 | VPS13D |
| 16 | 42,225,000 | 42,375,000 | 564 | 284 | 0.049238136 | VPS13D |
| 16 | 42,300,000 | 42,450,000 | 565 | 290 | -0.127623934 | TNFRSF1B,TNFRSF8,VPS13D |
| 16 | 42,375,000 | 42,525,000 | 566 | 332 | 0.219600276 | TNFRSF1B,TNFRSF8 |
| 16 | 42,450,000 | 42,600,000 | 567 | 514 | 0.215635946 | MFN2,MIIIP,PLOD1,TNFRSF8 |
| 16 | 42,525,000 | 42,675,000 | 568 | 481 | 0.316110764 | KIAA2013,MFN2,MIIIP,PLOD1 |
| 16 | 42,600,000 | 42,750,000 | 569 | 356 | 0.599241828 | CLCN6,KIAA2013,NPPA,NPPB,PLOD1 |
| 16 | 42,675,000 | 42,825,000 | 570 | 468 | 0.213190166 | AGTRAP,C1orf167,CLCN6,MTHFR,NPPA,NPPB |
| 16 | 42,750,000 | 42,900,000 | 571 | 840 | 0.366733276 | AGTRAP,C1orf167,CLCN6,DRAXIN,FBXO6,MAD2L2,MTHFR |
| 16 | 42,825,000 | 42,975,000 | 572 | 1050 | 0.717786992 | AGTRAP,DRAXIN,FBXO2,FBXO44,FBXO6,MAD2L2 |
| 16 | 42,900,000 | 43,050,000 | 573 | 1171 | 1.081941751 | FBXO2,FBXO44,PTCHD2 |
| 16 | 42,975,000 | 43,125,000 | 574 | 1037 | 0.554579907 | PTCHD2 |
| 16 | 43,050,000 | 43,200,000 | 575 | 645 | 0.241052716 | PTCHD2 |
| 16 | 43,125,000 | 43,275,000 | 576 | 457 | 0.962372169 | UBIAD1 |
| 16 | 43,200,000 | 43,350,000 | 577 | 342 | 1.265894352 | ANGPTL7,MTOR,UBIAD1 |
| 16 | 43,275,000 | 43,425,000 | 578 | 393 | 1.155232336 | ANGPTL7,EXOSC10,MTOR |
| 16 | 43,350,000 | 43,500,000 | 579 | 553 | 1.194124429 | EXOSC10,MASP2,MTOR,SRM,TARDBP |
| 16 | 43,425,000 | 43,575,000 | 580 | 420 | 1.072215991 | EXOSC10,MASP2,SRM,TARDBP |
| 16 | 43,500,000 | 43,650,000 | 581 | 460 | 0.519928646 | |
| 16 | 43,575,000 | 43,725,000 | 582 | 505 | 0.73425275 | |
| 16 | 43,650,000 | 43,800,000 | 583 | 314 | -0.176214124 | CASZ1 |
| 16 | 43,725,000 | 43,875,000 | 584 | 270 | -0.657802261 | CASZ1,PEX14 |
| 16 | 43,800,000 | 43,950,000 | 585 | 269 | 0.402604449 | CASZ1,PEX14 |
| 16 | 43,875,000 | 44,025,000 | 586 | 230 | 0.38965323 | APITD1,CORT,DFFA,PEX14 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 43,950,000 | 44,100,000 | 587 | 378 | -0.391219665 | APITD1,CORT,DFFA,KIF1B,PEX14,PGD |
| 16 | 44,025,000 | 44,175,000 | 588 | 515 | -0.840040787 | APITD1,KIF1B,PGD |
| 16 | 44,100,000 | 44,250,000 | 589 | 397 | -1.209784689 | KIF1B |
| 16 | 44,175,000 | 44,325,000 | 590 | 444 | -0.402036317 | KIF1B,UBE4B |
| 16 | 44,250,000 | 44,400,000 | 591 | 400 | 0.305855959 | UBE4B |
| 16 | 44,325,000 | 44,475,000 | 592 | 325 | 0.85225653 | NMNAT1,RBP7,UBE4B |
| 16 | 44,400,000 | 44,550,000 | 593 | 437 | 1.292060382 | CTNNBIP1,NMNAT1,RBP7 |
| 16 | 44,475,000 | 44,625,000 | 594 | 379 | 1.214582561 | CTNNBIP1 |
| 16 | 44,550,000 | 44,700,000 | 595 | 230 | 0.613062212 | CLSTN1,CTNNBIP1,PIK3CD |
| 16 | 44,625,000 | 44,775,000 | 596 | 235 | 0.496322781 | CLSTN1,PIK3CD |
| 16 | 44,700,000 | 44,850,000 | 597 | 291 | 0.823735409 | SLC25A33,TMEM201 |
| 16 | 44,775,000 | 44,925,000 | 598 | 397 | 0.98352617 | SLC25A33,TMEM201 |
| 16 | 44,850,000 | 45,000,000 | 599 | 635 | 1.031021324 | SPSB1 |
| 16 | 44,925,000 | 45,075,000 | 600 | 781 | 0.904487755 | SPSB1 |
| 16 | 45,000,000 | 45,150,000 | 601 | 842 | 0.853359176 | H6PD,SPSB1 |
| 16 | 45,075,000 | 45,225,000 | 602 | 859 | 1.116786796 | GPR157,H6PD |
| 16 | 45,150,000 | 45,300,000 | 603 | 1148 | 1.276368585 | CA6,GPR157,SLC2A5 |
| 16 | 45,225,000 | 45,375,000 | 604 | 1177 | 1.216692419 | CA6,GPR157,SLC2A5 |
| 16 | 45,300,000 | 45,450,000 | 605 | 900 | 1.125805587 | CA6,ENSBTAG00000013411 |
| 16 | 45,375,000 | 45,525,000 | 606 | 678 | 1.273534711 | ENSBTAG00000013411 |
| 16 | 45,450,000 | 45,600,000 | 607 | 530 | 1.335168335 | |
| 16 | 45,525,000 | 45,675,000 | 608 | 645 | 1.184186833 | RERE |
| 16 | 45,600,000 | 45,750,000 | 609 | 712 | 1.069255047 | RERE |
| 16 | 45,675,000 | 45,825,000 | 610 | 705 | 1.156423922 | RERE |
| 16 | 45,750,000 | 45,900,000 | 611 | 819 | 1.06504396 | RERE,SLC45A1 |
| 16 | 45,825,000 | 45,975,000 | 612 | 871 | 1.051989514 | RERE,SLC45A1 |
| 16 | 45,900,000 | 46,050,000 | 613 | 759 | 1.409952016 | SLC45A1 |
| 16 | 45,975,000 | 46,125,000 | 614 | 762 | 1.447986605 | ENSBTAG00000011650 |
| 16 | 46,050,000 | 46,200,000 | 615 | 694 | 1.317668737 | ENSBTAG00000011650 |
| 16 | 46,125,000 | 46,275,000 | 616 | 642 | 1.374228389 | ERRFI1,PARK7,ENSBTAG00000011650 |
| 16 | 46,200,000 | 46,350,000 | 617 | 730 | 1.067578825 | ERRFI1,PARK7,TNFRSF9 |
| 16 | 46,275,000 | 46,425,000 | 618 | 892 | 0.653097041 | TNFRSF9 |
| 16 | 46,350,000 | 46,500,000 | 619 | 808 | 0.743281091 | CAMTA1,VAMP3 |
| 16 | 46,425,000 | 46,575,000 | 620 | 710 | 1.143142961 | CAMTA1,VAMP3 |
| 16 | 46,500,000 | 46,650,000 | 621 | 910 | -0.164614018 | CAMTA1 |
| 16 | 46,575,000 | 46,725,000 | 622 | 995 | -0.239774064 | |
| 16 | 46,650,000 | 46,800,000 | 623 | 1043 | -0.916876057 | |
| 16 | 46,725,000 | 46,875,000 | 624 | 1027 | -1.376843886 | |
| 16 | 46,800,000 | 46,950,000 | 625 | 1032 | 0.283968885 | |
| 16 | 46,875,000 | 47,025,000 | 626 | 1127 | 0.590424517 | |
| 16 | 46,950,000 | 47,100,000 | 627 | 1410 | 0.744575583 | |
| 16 | 47,025,000 | 47,175,000 | 628 | 1472 | 0.468924172 | |
| 16 | 47,100,000 | 47,250,000 | 629 | 1198 | -0.255007179 | |
| 16 | 47,175,000 | 47,325,000 | 630 | 1054 | 0.065118339 | |
| 16 | 47,250,000 | 47,400,000 | 631 | 741 | 0.970887053 | |
| 16 | 47,325,000 | 47,475,000 | 632 | 523 | 1.06019539 | |
| 16 | 47,400,000 | 47,550,000 | 633 | 583 | 0.507505506 | |
| 16 | 47,475,000 | 47,625,000 | 634 | 508 | -0.392618172 | DNAJC11,THAP3 |
| 16 | 47,550,000 | 47,700,000 | 635 | 309 | -1.922531033 | DNAJC11,KLHL21,NOL9,PHF13,TAS1R1,THAP3,ZBTB48 |
| 16 | 47,625,000 | 47,775,000 | 636 | 255 | -2.631415795 | ESPN,KLHL21,NOL9,PHF13,PLEKHG5,TAS1R1,THAP3,TNFRSF25,ZBTB48 |
| 16 | 47,700,000 | 47,850,000 | 637 | 393 | -3.087420652 | ACOT7,ESPN,HES2,PLEKHG5,TNFRSF25 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 47,775,000 | 47,925,000 | 638 | 578 | -2.680618207 | ACOT7,ESPN,HES2 |
| 16 | 47,850,000 | 48,000,000 | 639 | 476 | -1.928067356 | ACOT7,GPR153,HES3,ICMT,RNF207,ENSBTAG00000014423 |
| 16 | 47,925,000 | 48,075,000 | 640 | 325 | -1.024493187 | ACOT7,CHD5,GPR153,HES3,ICMT,RNF207,ENSBTAG0000014423 |
| 16 | 48,000,000 | 48,150,000 | 641 | 408 | 0.315699831 | CHD5,KCNAB2,ENSBTAG00000014423 |
| 16 | 48,075,000 | 48,225,000 | 642 | 566 | 0.705751781 | CHD5,KCNAB2,NPHP4 |
| 16 | 48,150,000 | 48,300,000 | 643 | 1216 | 1.270755531 | NPHP4 |
| 16 | 48,225,000 | 48,375,000 | 644 | 1894 | 1.501253814 | NPHP4 |
| 16 | 48,300,000 | 48,450,000 | 645 | 1681 | 1.415013094 | NPHP4 |
| 16 | 48,375,000 | 48,525,000 | 646 | 1521 | -0.029105642 | |
| 16 | 48,450,000 | 48,600,000 | 647 | 1742 | -0.898323987 | |
| 16 | 48,525,000 | 48,675,000 | 648 | 1673 | -0.010151335 | |
| 16 | 48,600,000 | 48,750,000 | 649 | 1575 | 0.204715173 | |
| 16 | 48,675,000 | 48,825,000 | 650 | 1431 | -0.630668504 | |
| 16 | 48,750,000 | 48,900,000 | 651 | 1420 | -0.69035905 | |
| 16 | 48,825,000 | 48,975,000 | 652 | 1238 | -0.873619373 | |
| 16 | 48,900,000 | 49,050,000 | 653 | 1026 | 0.286031861 | |
| 16 | 48,975,000 | 49,125,000 | 654 | 1526 | -0.137926822 | |
| 16 | 49,050,000 | 49,200,000 | 655 | 1780 | -0.219255796 | |
| 16 | 49,125,000 | 49,275,000 | 656 | 1055 | 0.393349401 | LAD1,TNNT2,ENSBTAG00000047285,ENSBTAG00000048267 |
| 16 | 49,200,000 | 49,350,000 | 657 | 339 | 0.534886616 | CSRP1,LAD1,TNNI1,TNNT2,ENSBTAG00000047285,ENSBTAG00000048267 |
| 16 | 49,275,000 | 49,425,000 | 658 | 326 | -0.078296003 | CSRP1,LAD1,TNNI1 |
| 16 | 49,350,000 | 49,500,000 | 659 | 447 | 0.079398829 | CSRP1,NAV1,ENSBTAG00000046062 |
| 16 | 49,425,000 | 49,575,000 | 660 | 506 | 0.421954529 | NAV1,ENSBTAG00000046062 |
| 16 | 49,500,000 | 49,650,000 | 661 | 444 | 0.318280741 | IPO9,LMOD1,NAV1,SHISA4 |
| 16 | 49,575,000 | 49,725,000 | 662 | 814 | -0.165551124 | IPO9,LMOD1,SHISA4,TIMM17A |
| 16 | 49,650,000 | 49,800,000 | 663 | 1701 | -0.010423872 | LMOD1,TIMM17A |
| 16 | 49,725,000 | 49,875,000 | 664 | 1933 | -0.093856959 | AJAP1 |
| 16 | 49,800,000 | 49,950,000 | 665 | 1538 | 0.537932225 | AJAP1 |
| 16 | 49,875,000 | 50,025,000 | 666 | 1574 | 1.273793219 | |
| 16 | 49,950,000 | 50,100,000 | 667 | 1823 | 1.102464687 | |
| 16 | 50,025,000 | 50,175,000 | 668 | 1745 | 0.746884546 | |
| 16 | 50,100,000 | 50,250,000 | 669 | 1624 | 0.214531827 | |
| 16 | 50,175,000 | 50,325,000 | 670 | 1581 | 0.492593749 | |
| 16 | 50,250,000 | 50,400,000 | 671 | 1619 | 1.141042291 | |
| 16 | 50,325,000 | 50,475,000 | 672 | 1443 | 1.196584771 | C16H1orf174 |
| 16 | 50,400,000 | 50,550,000 | 673 | 1051 | 1.124117409 | C16H1orf174,CEP104,DFFB,LRRC47 |
| 16 | 50,475,000 | 50,625,000 | 674 | 782 | 0.892072896 | C16H1orf174,CCDC27,CEP104,DFFB,LRRC47,SMIM1,TP73 |
| 16 | 50,550,000 | 50,700,000 | 675 | 842 | 0.260661592 | CCDC27,LRRC47,SMIM1,TP73,TPRG1L,WRAP73 |
| 16 | 50,625,000 | 50,775,000 | 676 | 1057 | 0.244166332 | MEGF6,TP73,TPRG1L,WRAP73 |
| 16 | 50,700,000 | 50,850,000 | 677 | 1037 | 0.57200985 | ARHGEF16,MEGF6,PRDM16 |
| 16 | 50,775,000 | 50,925,000 | 678 | 805 | -0.215408711 | ARHGEF16,MEGF6,PRDM16 |
| 16 | 50,850,000 | 51,000,000 | 679 | 689 | -0.668028818 | PRDM16 |
| 16 | 50,925,000 | 51,075,000 | 680 | 1204 | 0.016529257 | |
| 16 | 51,000,000 | 51,150,000 | 681 | 1239 | 0.317126222 | |
| 16 | 51,075,000 | 51,225,000 | 682 | 856 | -0.095694457 | |
| 16 | 51,150,000 | 51,300,000 | 683 | 794 | -0.138430566 | ACTRT2 |
| 16 | 51,225,000 | 51,375,000 | 684 | 675 | 0.533367523 | ACTRT2 |
| 16 | 51,300,000 | 51,450,000 | 685 | 884 | 0.339408604 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 51,375,000 | 51,525,000 | 686 | 1159 | 0.014853453 | MMEL1,TTC34 |
| 16 | 51,450,000 | 51,600,000 | 687 | 914 | -0.037913377 | FAM213B,HES5,MMEL1,PANK4,TTC34 |
| 16 | 51,525,000 | 51,675,000 | 688 | 806 | -1.121993833 | FAM213B,HES5,MMEL1,PANK4,PLCH2 |
| 16 | 51,600,000 | 51,750,000 | 689 | 796 | -1.123077843 | MORN1,PANK4,PEX10,PLCH2,RER1 |
| 16 | 51,675,000 | 51,825,000 | 690 | 664 | 0.109355099 | MORN1,PEX10,RER1,SKI |
| 16 | 51,750,000 | 51,900,000 | 691 | 817 | 0.214636877 | FAAP20,PRKCZ,SKI |
| 16 | 51,825,000 | 51,975,000 | 692 | 803 | 0.617137658 | FAAP20,GABRD,PRKCZ |
| 16 | 51,900,000 | 52,050,000 | 693 | 617 | 0.624658206 | GABRD,KIAA1751,PRKCZ |
| 16 | 51,975,000 | 52,125,000 | 694 | 605 | 0.923595186 | CALML6,GNB1,KIAA1751,TMEM52,ENSBTAG00000024510 |
| 16 | 52,050,000 | 52,200,000 | 695 | 546 | 0.694396434 | CALML6,GNB1,KIAA1751,TMEM52,ENSBTAG00000024510 |
| 16 | 52,125,000 | 52,275,000 | 696 | 373 | 0.33573111 | CDC2L1,GNB1,MIB2,MMP23B,NADK,RPLP1,SLC35E2B |
| 16 | 52,200,000 | 52,350,000 | 697 | 292 | 0.14393024 | ATAD3,C16H1orf70,C1orf233,CDC2L1,MIB2,MMP23B,NADK,RPLP1,SLC35E2B,SSU72 |
| 16 | 52,275,000 | 52,425,000 | 698 | 296 | 0.402658885 | ANKRD65,ATAD3,AURKAIP1,C16H1orf70,C1orf233,CCNL2,MIB2,MRPL20,MXRA8,RPLP1,SSU72,TMEM88B,VWA1 |
| 16 | 52,350,000 | 52,500,000 | 699 | 362 | 1.254361314 | ANKRD65,ATAD3,AURKAIP1,B3GALT6,CCNL2,DVL1,FAM132A,MRPL20,MXRA8,RPLP1,SDF4,TMEM88B,TNFRSF18,TNFRSF4,TTL10,UBE2J2,VWA1 |
| 16 | 52,425,000 | 52,575,000 | 700 | 461 | 1.373523296 | B3GALT6,DVL1,FAM132A,GLTPD1,MXRA8,SDF4,TNFRSF18,TNFRSF4,TTL10,UBE2J2 |
| 16 | 52,500,000 | 52,650,000 | 701 | 446 | 1.290083222 | ACAP3,CPSF3L,FLJ20584,GLTPD1,PUSL1,SCNN1D,TTL10 |
| 16 | 52,575,000 | 52,725,000 | 702 | 450 | 0.89297058 | ACAP3,AGRN,CPSF3L,FLJ20584,GLTPD1,HES4,ISG15,PUSL1,RNF223,SCNN1D,ENSBTAG00000024492 |
| 16 | 52,650,000 | 52,800,000 | 703 | 540 | 1.076586038 | AGRN,FLJ20584,HES4,ISG15,KLHL17,NOC2L,PERM1,PLEKHN1,RNF223,SAMD11,ENSBTAG00000024492 |
| 16 | 52,725,000 | 52,875,000 | 704 | 549 | 1.060864077 | HES4,KLHL17,NOC2L,PERM1,PLEKHN1,SAMD11,ZBTB17 |
| 16 | 52,800,000 | 52,950,000 | 705 | 467 | 0.742143466 | SPEN,ZBTB17 |
| 16 | 52,875,000 | 53,025,000 | 706 | 404 | 0.447548687 | SPEN,ZBTB17 |
| 16 | 52,950,000 | 53,100,000 | 707 | 662 | 0.963587714 | FBLIM1,PLEKHM2,SLC25A34,SPEN,TMEM82 |
| 16 | 53,025,000 | 53,175,000 | 708 | 763 | 1.202798938 | DDI2,FBLIM1,PLEKHM2,RSC1A1,SLC25A34,TMEM82 |
| 16 | 53,100,000 | 53,250,000 | 709 | 550 | 1.276472302 | AGMAT,DDI2,DNAJC16,PLEKHM2,RSC1A1 |
| 16 | 53,175,000 | 53,325,000 | 710 | 720 | -0.435366147 | AGMAT,CASP9,CTRC,DNAJC16,EFHD2,ELA2A |
| 16 | 53,250,000 | 53,400,000 | 711 | 1065 | -1.338625224 | CASP9,CTRC,EFHD2,ELA2A,FHAD1 |
| 16 | 53,325,000 | 53,475,000 | 712 | 1211 | -0.198071544 | FHAD1 |
| 16 | 53,400,000 | 53,550,000 | 713 | 1009 | 0.79872616 | FHAD1,TMEM51 |
| 16 | 53,475,000 | 53,625,000 | 714 | 1170 | 1.07162854 | TMEM51 |
| 16 | 53,550,000 | 53,700,000 | 715 | 1305 | 0.95768159 | KAZN |
| 16 | 53,625,000 | 53,775,000 | 716 | 1405 | 0.571967475 | KAZN |
| 16 | 53,700,000 | 53,850,000 | 717 | 1647 | 0.305703331 | KAZN |
| 16 | 53,775,000 | 53,925,000 | 718 | 1345 | 0.439364561 | |
| 16 | 53,850,000 | 54,000,000 | 719 | 1119 | 0.319947379 | |
| 16 | 53,925,000 | 54,075,000 | 720 | 1135 | -0.275462064 | |
| 16 | 54,000,000 | 54,150,000 | 721 | 1058 | 0.005291203 | |
| 16 | 54,075,000 | 54,225,000 | 722 | 874 | 0.486001407 | |
| 16 | 54,150,000 | 54,300,000 | 723 | 847 | 0.140969747 | |
| 16 | 54,225,000 | 54,375,000 | 724 | 991 | 0.059438846 | |
| 16 | 54,300,000 | 54,450,000 | 725 | 1396 | 0.690282345 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 54,375,000 | 54,525,000 | 726 | 1127 | 0.728143259 | |
| 16 | 54,450,000 | 54,600,000 | 727 | 819 | 0.52142757 | |
| 16 | 54,525,000 | 54,675,000 | 728 | 923 | 0.565596777 | |
| 16 | 54,600,000 | 54,750,000 | 729 | 1359 | -0.340877775 | |
| 16 | 54,675,000 | 54,825,000 | 730 | 1645 | -0.569551686 | |
| 16 | 54,750,000 | 54,900,000 | 731 | 1330 | -0.466989991 | |
| 16 | 54,825,000 | 54,975,000 | 732 | 1495 | -0.108694147 | |
| 16 | 54,900,000 | 55,050,000 | 733 | 1480 | 0.384546105 | |
| 16 | 54,975,000 | 55,125,000 | 734 | 1058 | 0.452212892 | PRDM2 |
| 16 | 55,050,000 | 55,200,000 | 735 | 654 | 0.177895281 | PRDM2 |
| 16 | 55,125,000 | 55,275,000 | 736 | 680 | 0.282755343 | KDM5B,PRDM2 |
| 16 | 55,200,000 | 55,350,000 | 737 | 682 | 0.372570877 | KDM5B |
| 16 | 55,275,000 | 55,425,000 | 738 | 895 | 0.4149598 | BOVAGGRUS,KDM5B |
| 16 | 55,350,000 | 55,500,000 | 739 | 1152 | 0.473583709 | BOVAGGRUS,KLHL12,RABIF |
| 16 | 55,425,000 | 55,575,000 | 740 | 766 | 0.270416531 | ADIPOR1,BOVAGGRUS,CYB5R1,KLHL12,RABIF,ENSBT AG00000019931 |
| 16 | 55,500,000 | 55,650,000 | 741 | 1015 | 0.55015999 | ADIPOR1,CYB5R1,KLHL12,LRRC38,ENSBTAG00000019 931 |
| 16 | 55,575,000 | 55,725,000 | 742 | 1419 | 0.74917723 | LRRC38,ENSBTAG00000024791 |
| 16 | 55,650,000 | 55,800,000 | 743 | 1024 | 0.062377585 | ENSBTAG00000012389,ENSBTAG00000024791,ENSBT AG00000038000,ENSBTAG00000038222,ENSBTAG000 00040570 |
| 16 | 55,725,000 | 55,875,000 | 744 | 716 | -1.344694384 | ENSBTAG00000012389,ENSBTAG00000038000,ENSBT AG00000038222,ENSBTAG00000038264,ENSBTAG000 00040570 |
| 16 | 55,800,000 | 55,950,000 | 745 | 716 | -0.724544431 | ENSBTAG00000031507,ENSBTAG00000038261,ENSBT AG00000038264 |
| 16 | 55,875,000 | 56,025,000 | 746 | 757 | 0.628396526 | ENSBTAG00000031507,ENSBTAG00000038261,ENSBT AG00000040419 |
| 16 | 55,950,000 | 56,100,000 | 747 | 954 | 1.022340158 | ENSBTAG00000001210,ENSBTAG00000015600,ENSBT AG00000040419 |
| 16 | 56,025,000 | 56,175,000 | 748 | 1002 | 0.888147947 | ENSBTAG00000001210,ENSBTAG00000015600,ENSBT AG00000040419,ENSBTAG00000046630 |
| 16 | 56,100,000 | 56,250,000 | 749 | 789 | 0.643445074 | AADACL3,C16H1orf158,ENSBTAG00000046630 |
| 16 | 56,175,000 | 56,325,000 | 750 | 853 | 1.171205053 | AADACL3,C16H1orf158 |
| 16 | 56,250,000 | 56,400,000 | 751 | 1064 | 0.634963552 | PRDX6 |
| 16 | 56,325,000 | 56,475,000 | 752 | 1130 | -0.051188414 | PRDX6,SLC9C2 |
| 16 | 56,400,000 | 56,550,000 | 753 | 1021 | 0.133647751 | ANKRD45,SLC9C2,ENSBTAG00000046799 |
| 16 | 56,475,000 | 56,625,000 | 754 | 872 | 0.800918042 | ANKRD45,KLHL20,SLC9C2,ENSBTAG00000046799 |
| 16 | 56,550,000 | 56,700,000 | 755 | 928 | 0.799691246 | CENPL,DARS2,KLHL20,ZBTB37 |
| 16 | 56,625,000 | 56,775,000 | 756 | 727 | 0.278394873 | CENPL,DARS2,SERPINC1,ZBTB37 |
| 16 | 56,700,000 | 56,850,000 | 757 | 466 | 0.202668264 | SERPINC1,ZBTB37 |
| 16 | 56,775,000 | 56,925,000 | 758 | 622 | 0.870414105 | |
| 16 | 56,850,000 | 57,000,000 | 759 | 769 | 0.835795535 | RABGAP1L |
| 16 | 56,925,000 | 57,075,000 | 760 | 746 | 0.740231536 | RABGAP1L |
| 16 | 57,000,000 | 57,150,000 | 761 | 758 | 0.806744103 | RABGAP1L |
| 16 | 57,075,000 | 57,225,000 | 762 | 758 | 0.633744113 | GPR52 |
| 16 | 57,150,000 | 57,300,000 | 763 | 865 | 0.982453818 | GPR52 |
| 16 | 57,225,000 | 57,375,000 | 764 | 791 | 1.114164857 | |
| 16 | 57,300,000 | 57,450,000 | 765 | 856 | -2.541029026 | |
| 16 | 57,375,000 | 57,525,000 | 766 | 1247 | -1.189913946 | |
| 16 | 57,450,000 | 57,600,000 | 767 | 1413 | -0.232059848 | MGC157043 |
| 16 | 57,525,000 | 57,675,000 | 768 | 1397 | -0.707696062 | MGC157043 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 16 | 57,600,000 | 57,750,000 | 769 | 1177 | -0.049093825 | CACYBP,MGC157043,MRPS14 |
| 16 | 57,675,000 | 57,825,000 | 770 | 933 | 0.311955127 | CACYBP,MGC157043,MRPS14,TNN |
| 16 | 57,750,000 | 57,900,000 | 771 | 713 | 0.594492825 | TNN |
| 16 | 57,825,000 | 57,975,000 | 772 | 791 | 0.625803313 | TNN |
| 16 | 57,900,000 | 58,050,000 | 773 | 815 | 0.218527058 | TNR |
| 16 | 57,975,000 | 58,125,000 | 774 | 515 | 0.267254493 | TNR |
| 16 | 58,050,000 | 58,200,000 | 775 | 832 | 0.881492024 | TNR |
| 16 | 58,125,000 | 58,275,000 | 776 | 1131 | 0.657092185 | TNR |
| 16 | 58,200,000 | 58,350,000 | 777 | 1211 | 0.363345432 | |
| 16 | 58,275,000 | 58,425,000 | 778 | 1223 | -0.106876073 | |
| 16 | 58,350,000 | 58,500,000 | 779 | 994 | -0.140659763 | |
| 16 | 58,425,000 | 58,575,000 | 780 | 1115 | 0.215298792 | |
| 16 | 58,500,000 | 58,650,000 | 781 | 1180 | 0.280174538 | RFWD2 |
| 16 | 58,575,000 | 58,725,000 | 782 | 1003 | -0.064092429 | RFWD2 |
| 16 | 58,650,000 | 58,800,000 | 783 | 1174 | -0.372480375 | RFWD2 |
| 16 | 58,725,000 | 58,875,000 | 784 | 1209 | 0.346240274 | RFWD2 |
| 16 | 58,800,000 | 58,950,000 | 785 | 1003 | 0.28055467 | RFWD2 |
| 16 | 58,875,000 | 59,025,000 | 786 | 796 | 0.134218233 | |
| 16 | 58,950,000 | 59,100,000 | 787 | 805 | 0.480684216 | |
| 16 | 59,025,000 | 59,175,000 | 788 | 792 | 0.117488031 | PAPPA2 |
| 16 | 59,100,000 | 59,250,000 | 789 | 544 | -0.558158648 | PAPPA2 |
| 16 | 59,175,000 | 59,325,000 | 790 | 789 | -0.037185558 | PAPPA2 |
| 16 | 59,250,000 | 59,400,000 | 791 | 762 | -0.078719751 | PAPPA2 |
| 16 | 59,325,000 | 59,475,000 | 792 | 514 | 0.052004762 | PAPPA2 |
| 16 | 59,400,000 | 59,550,000 | 793 | 884 | 0.682713071 | ASTN1,PAPPA2 |
| 16 | 59,475,000 | 59,625,000 | 794 | 1082 | 0.864494625 | ASTN1 |
| 16 | 59,550,000 | 59,700,000 | 795 | 1074 | 0.719985963 | ASTN1 |
| 16 | 59,625,000 | 59,775,000 | 796 | 871 | 0.03273338 | ASTN1 |
| 16 | 59,700,000 | 59,850,000 | 797 | 814 | -0.048966562 | ASTN1 |
| 16 | 59,775,000 | 59,925,000 | 798 | 1152 | 0.564841057 | |
| 16 | 59,850,000 | 60,000,000 | 799 | 1322 | 1.156094937 | BRINP2 |
| 16 | 59,925,000 | 60,075,000 | 800 | 1182 | 0.598786638 | BRINP2 |
| 16 | 60,000,000 | 60,150,000 | 801 | 1068 | -0.554508099 | |
| 16 | 60,075,000 | 60,225,000 | 802 | 1127 | -0.482138296 | |
| 16 | 60,150,000 | 60,300,000 | 803 | 1423 | -0.715765258 | |
| 16 | 60,225,000 | 60,375,000 | 804 | 1554 | -0.633336985 | |
| 16 | 60,300,000 | 60,450,000 | 805 | 1439 | 0.261445866 | |
| 16 | 60,375,000 | 60,525,000 | 806 | 1656 | 0.561641019 | |
| 16 | 60,450,000 | 60,600,000 | 807 | 1489 | 0.166029504 | |
| 16 | 60,525,000 | 60,675,000 | 808 | 1241 | -0.26464616 | ENSBTAG00000038238 |
| 16 | 60,600,000 | 60,750,000 | 809 | 1161 | -0.357337726 | SEC16B,ENSBTAG00000038238 |
| 16 | 60,675,000 | 60,825,000 | 810 | 925 | -0.25777246 | SEC16B |
| 16 | 60,750,000 | 60,900,000 | 811 | 560 | 0.135470259 | SEC16B,ENSBTAG00000046172 |
| 16 | 60,825,000 | 60,975,000 | 812 | 406 | 1.150348167 | ENSBTAG00000046172 |
| 16 | 60,900,000 | 61,050,000 | 813 | 519 | 1.171926932 | |
| 16 | 60,975,000 | 61,125,000 | 814 | 611 | 0.822639773 | RASAL2 |
| 16 | 61,050,000 | 61,200,000 | 815 | 557 | 0.607436452 | RASAL2 |
| 16 | 61,125,000 | 61,275,000 | 816 | 654 | -0.101514324 | RASAL2 |
| 16 | 61,200,000 | 61,350,000 | 817 | 853 | 0.650424076 | RASAL2 |
| 16 | 61,275,000 | 61,425,000 | 818 | 834 | 1.039506144 | RASAL2,TEX35 |
| 16 | 61,350,000 | 61,500,000 | 819 | 642 | 0.093678415 | TEX35 |
| 16 | 61,425,000 | 61,575,000 | 820 | 869 | -0.501674633 | RALGPS2 |
| 16 | 61,500,000 | 61,650,000 | 821 | 1140 | -0.323422941 | RALGPS2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 16 | 61,575,000 | 61,725,000 | 822 | 1003 | -0.110771965 | ANGPTL1,RALGPS2 |
| 16 | 61,650,000 | 61,800,000 | 823 | 1077 | 0.069665412 | ANGPTL1,RALGPS2 |
| 16 | 61,725,000 | 61,875,000 | 824 | 688 | -0.186033375 | FAM20B,TOR3A |
| 16 | 61,800,000 | 61,950,000 | 825 | 247 | -0.934564748 | ABL2,FAM20B,TOR3A |
| 16 | 61,875,000 | 62,025,000 | 826 | 265 | -0.618562417 | ABL2,TOR3A |
| 16 | 61,950,000 | 62,100,000 | 827 | 588 | 0.517960346 | ABL2,SOAT1 |
| 16 | 62,025,000 | 62,175,000 | 828 | 884 | 0.628281185 | AXDND1,SOAT1 |
| 16 | 62,100,000 | 62,250,000 | 829 | 839 | -0.118422024 | AXDND1,NPHS2,SOAT1 |
| 16 | 62,175,000 | 62,325,000 | 830 | 720 | -0.154272767 | AXDND1,NPHS2,TDRD5 |
| 16 | 62,250,000 | 62,400,000 | 831 | 704 | 0.541664674 | TDRD5 |
| 16 | 62,325,000 | 62,475,000 | 832 | 709 | 0.186405266 | FAM163A,TDRD5 |
| 16 | 62,400,000 | 62,550,000 | 833 | 614 | -0.465076234 | FAM163A,IFRG15,TOR1AIP1,TOR1AIP2 |
| 16 | 62,475,000 | 62,625,000 | 834 | 634 | -0.349767594 | IFRG15,TOR1AIP1,TOR1AIP2 |
| 16 | 62,550,000 | 62,700,000 | 835 | 578 | 0.065499841 | CEP350,TOR1AIP1 |
| 16 | 62,625,000 | 62,775,000 | 836 | 422 | 0.810020753 | CEP350 |
| 16 | 62,700,000 | 62,850,000 | 837 | 476 | -1.97523661 | CEP350,QSOX1 |
| 16 | 62,775,000 | 62,925,000 | 838 | 469 | -2.021262233 | LHX4,QSOX1 |
| 16 | 62,850,000 | 63,000,000 | 839 | 816 | 0.654584845 | LHX4 |
| 16 | 62,925,000 | 63,075,000 | 840 | 1219 | 0.313998655 | ACBD6 |
| 16 | 63,000,000 | 63,150,000 | 841 | 850 | -0.131648586 | ACBD6 |
| 16 | 63,075,000 | 63,225,000 | 842 | 423 | 0.158046282 | ACBD6 |
| 16 | 63,150,000 | 63,300,000 | 843 | 496 | -0.616345419 | XPR1 |
| 16 | 63,225,000 | 63,375,000 | 844 | 448 | -0.755438836 | XPR1 |
| 16 | 63,300,000 | 63,450,000 | 845 | 197 | -0.343012846 | XPR1 |
| 16 | 63,375,000 | 63,525,000 | 846 | 249 | -0.073906657 | XPR1 |
| 16 | 63,450,000 | 63,600,000 | 847 | 699 | -0.981683075 | KIAA1614,STX6,XPR1 |
| 16 | 63,525,000 | 63,675,000 | 848 | 841 | -0.902791637 | KIAA1614,MR1,STX6 |
| 16 | 63,600,000 | 63,750,000 | 849 | 667 | 0.43517061 | IER5,MR1,STX6 |
| 16 | 63,675,000 | 63,825,000 | 850 | 1314 | -1.31400226 | IER5 |
| 16 | 63,750,000 | 63,900,000 | 851 | 1447 | -1.263623487 | |
| 16 | 63,825,000 | 63,975,000 | 852 | 899 | 0.644841975 | |
| 16 | 63,900,000 | 64,050,000 | 853 | 928 | 0.968739777 | |
| 16 | 63,975,000 | 64,125,000 | 854 | 770 | 0.561078447 | CAV2.3 |
| 16 | 64,050,000 | 64,200,000 | 855 | 630 | -0.736132369 | CAV2.3 |
| 16 | 64,125,000 | 64,275,000 | 856 | 627 | -0.636048151 | CAV2.3 |
| 16 | 64,200,000 | 64,350,000 | 857 | 566 | -0.26977763 | CAV2.3 |
| 16 | 64,275,000 | 64,425,000 | 858 | 687 | -0.162547481 | CAV2.3 |
| 16 | 64,350,000 | 64,500,000 | 859 | 922 | 0.58815876 | CAV2.3 |
| 16 | 64,425,000 | 64,575,000 | 860 | 925 | 0.285241945 | CAV2.3 |
| 16 | 64,500,000 | 64,650,000 | 861 | 612 | -1.224831562 | ZNF648 |
| 16 | 64,575,000 | 64,725,000 | 862 | 596 | -0.545861903 | ZNF648 |
| 16 | 64,650,000 | 64,800,000 | 863 | 772 | 0.311516025 | ZNF648 |
| 16 | 64,725,000 | 64,875,000 | 864 | 876 | 0.875636914 | |
| 16 | 64,800,000 | 64,950,000 | 865 | 1054 | 1.021765935 | GLUL |
| 16 | 64,875,000 | 65,025,000 | 866 | 1296 | 1.181658341 | GLUL,TEDDM1,ENSBTAG00000000772 |
| 16 | 64,950,000 | 65,100,000 | 867 | 1285 | 0.630361278 | GLUL,RGSL1,RNASEL,TEDDM1,ENSBTAG00000000772 |
| 16 | 65,025,000 | 65,175,000 | 868 | 1200 | -0.158631728 | RGS16,RGSL1,RNASEL |
| 16 | 65,100,000 | 65,250,000 | 869 | 1246 | 0.081485424 | RGS16,RGS8,RNASEL |
| 16 | 65,175,000 | 65,325,000 | 870 | 954 | -0.251776425 | RGS8 |
| 16 | 65,250,000 | 65,400,000 | 871 | 886 | -1.173336875 | DHX9,NPL |
| 16 | 65,325,000 | 65,475,000 | 872 | 974 | -0.778816353 | C16H1ORF14,DHX9,NPL |
| 16 | 65,400,000 | 65,550,000 | 873 | 914 | 0.359864572 | C16H1ORF14,DHX9,LAMC1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 16 | 65,475,000 | 65,625,000 | 874 | 784 | 0.267254437 | LAMC1 |
| 16 | 65,550,000 | 65,700,000 | 875 | 800 | 0.250422582 | LAMC1 |
| 16 | 65,625,000 | 65,775,000 | 876 | 1116 | 0.727212394 | LAMC1,LAMC2 |
| 16 | 65,700,000 | 65,850,000 | 877 | 1008 | 0.377156946 | LAMC2,NMNAT2 |
| 16 | 65,775,000 | 65,925,000 | 878 | 1202 | 0.695978535 | NMNAT2 |
| 16 | 65,850,000 | 66,000,000 | 879 | 1117 | 0.984038198 | NMNAT2 |
| 16 | 65,925,000 | 66,075,000 | 880 | 662 | 1.074358721 | NMNAT2,SMG7 |
| 16 | 66,000,000 | 66,150,000 | 881 | 926 | 0.555393896 | NCF2,SMG7 |
| 16 | 66,075,000 | 66,225,000 | 882 | 1073 | -0.933762013 | APOBEC4,ARPC5,NCF2,SMG7 |
| 16 | 66,150,000 | 66,300,000 | 883 | 1160 | -0.410134131 | APOBEC4,ARPC5 |
| 16 | 66,225,000 | 66,375,000 | 884 | 1227 | 0.400044689 | RGL1 |
| 16 | 66,300,000 | 66,450,000 | 885 | 1242 | 0.691334113 | RGL1 |
| 16 | 66,375,000 | 66,525,000 | 886 | 1359 | 0.788203899 | GLT25D2,RGL1 |
| 16 | 66,450,000 | 66,600,000 | 887 | 1215 | 0.054918665 | GLT25D2,TSEN15 |
| 16 | 66,525,000 | 66,675,000 | 888 | 1054 | -0.112580113 | GLT25D2,TSEN15 |
| 16 | 66,600,000 | 66,750,000 | 889 | 1116 | 0.30247059 | TSEN15 |
| 16 | 66,675,000 | 66,825,000 | 890 | 954 | 0.430120115 | |
| 16 | 66,750,000 | 66,900,000 | 891 | 682 | -0.195768157 | ENSBTAG00000046091 |
| 16 | 66,825,000 | 66,975,000 | 892 | 753 | -0.31952195 | C16H1ORF21,ENSBTAG00000046091 |
| 16 | 66,900,000 | 67,050,000 | 893 | 1015 | 0.431194331 | C16H1ORF21 |
| 16 | 66,975,000 | 67,125,000 | 894 | 1137 | 0.496121421 | C16H1ORF21 |
| 16 | 67,050,000 | 67,200,000 | 895 | 1039 | 0.678159685 | C16H1ORF21 |
| 16 | 67,125,000 | 67,275,000 | 896 | 929 | 1.016260749 | C16H1ORF21,EDEM3 |
| 16 | 67,200,000 | 67,350,000 | 897 | 685 | 0.637844532 | EDEM3,FAM129A |
| 16 | 67,275,000 | 67,425,000 | 898 | 943 | 0.844422653 | EDEM3,FAM129A |
| 16 | 67,350,000 | 67,500,000 | 899 | 923 | 0.893981086 | FAM129A |
| 16 | 67,425,000 | 67,575,000 | 900 | 738 | 0.41951503 | FAM129A |
| 16 | 67,500,000 | 67,650,000 | 901 | 844 | 0.610541709 | RNF2,TRMT1L |
| 16 | 67,575,000 | 67,725,000 | 902 | 663 | 0.925649743 | C16H1ORF26,RNF2,TRMT1L |
| 16 | 67,650,000 | 67,800,000 | 903 | 738 | 0.848492885 | C16H1ORF26,IVNS1ABP,TRMT1L |
| 16 | 67,725,000 | 67,875,000 | 904 | 749 | 0.808103699 | C16H1ORF26,IVNS1ABP |
| 16 | 67,800,000 | 67,950,000 | 905 | 621 | 1.266169168 | |
| 16 | 67,875,000 | 68,025,000 | 906 | 634 | 0.724556613 | |
| 16 | 67,950,000 | 68,100,000 | 907 | 1016 | -1.005263608 | SMIM20 |
| 16 | 68,025,000 | 68,175,000 | 908 | 992 | -0.90788419 | SMIM20 |
| 16 | 68,100,000 | 68,250,000 | 909 | 555 | -0.291094085 | HMCN1 |
| 16 | 68,175,000 | 68,325,000 | 910 | 663 | -0.374771708 | HMCN1 |
| 16 | 68,250,000 | 68,400,000 | 911 | 911 | 0.111077673 | HMCN1 |
| 16 | 68,325,000 | 68,475,000 | 912 | 1029 | 0.568473001 | HMCN1 |
| 16 | 68,400,000 | 68,550,000 | 913 | 1270 | 1.179209877 | HMCN1 |
| 16 | 68,475,000 | 68,625,000 | 914 | 1163 | 1.276122628 | HMCN1 |
| 16 | 68,550,000 | 68,700,000 | 915 | 971 | 0.568724477 | HMCN1 |
| 16 | 68,625,000 | 68,775,000 | 916 | 976 | 0.002683573 | HMCN1 |
| 16 | 68,700,000 | 68,850,000 | 917 | 1215 | -0.248517266 | HMCN1 |
| 16 | 68,775,000 | 68,925,000 | 918 | 1676 | -1.885004503 | PRG4,TPR |
| 16 | 68,850,000 | 69,000,000 | 919 | 1884 | -2.484482245 | C1orf27,PRG4,TPR,ENSBTAG00000047559 |
| 16 | 68,925,000 | 69,075,000 | 920 | 1780 | -0.509908449 | C1orf27,PDC,TPR,ENSBTAG00000047559 |
| 16 | 69,000,000 | 69,150,000 | 921 | 1489 | 0.399079609 | PDC |
| 16 | 69,075,000 | 69,225,000 | 922 | 1428 | 0.719732648 | |
| 16 | 69,150,000 | 69,300,000 | 923 | 969 | 0.990168199 | PGHS-2 |
| 16 | 69,225,000 | 69,375,000 | 924 | 731 | -0.749122562 | PGHS-2 |
| 16 | 69,300,000 | 69,450,000 | 925 | 1152 | -1.549352573 | PLA2G4A |
| 16 | 69,375,000 | 69,525,000 | 926 | 1317 | -0.686626476 | PLA2G4A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 16 | 69,450,000 | 69,600,000 | 927 | 1171 | -1.67244951 | PLA2G4A |
| 16 | 69,525,000 | 69,675,000 | 928 | 1203 | -2.418466494 | PLA2G4A |
| 16 | 69,600,000 | 69,750,000 | 929 | 1396 | -0.012226849 | PLA2G4A |
| 16 | 69,675,000 | 69,825,000 | 930 | 1524 | -0.03257202 | |
| 16 | 69,750,000 | 69,900,000 | 931 | 1464 | -0.365898638 | KCNK2 |
| 16 | 69,825,000 | 69,975,000 | 932 | 1162 | 0.072213237 | KCNK2 |
| 16 | 69,900,000 | 70,050,000 | 933 | 1378 | -0.362032673 | KCNK2 |
| 16 | 69,975,000 | 70,125,000 | 934 | 1412 | -0.550946621 | KCNK2 |
| 16 | 70,050,000 | 70,200,000 | 935 | 941 | -0.073216839 | KCNK2 |
| 16 | 70,125,000 | 70,275,000 | 936 | 808 | 0.286398799 | |
| 16 | 70,200,000 | 70,350,000 | 937 | 741 | 0.440228234 | |
| 16 | 70,275,000 | 70,425,000 | 938 | 1111 | 0.674896743 | |
| 16 | 70,350,000 | 70,500,000 | 939 | 1233 | 0.661906941 | CENPF |
| 16 | 70,425,000 | 70,575,000 | 940 | 925 | 0.48750212 | CENPF |
| 16 | 70,500,000 | 70,650,000 | 941 | 1096 | 0.201446503 | CENPF,PTPN14 |
| 16 | 70,575,000 | 70,725,000 | 942 | 1132 | 0.02533623 | PTPN14 |
| 16 | 70,650,000 | 70,800,000 | 943 | 1371 | 0.37357237 | PTPN14,SMYD2 |
| 16 | 70,725,000 | 70,875,000 | 944 | 1193 | 0.589928984 | ELF3,PTPN14,RNPEP,SMYD2 |
| 16 | 70,800,000 | 70,950,000 | 945 | 490 | 0.769692138 | ARL8A,ELF3,GPR37L1,LGR6,PTPN7,RNPEP,SMYD2,ENSBTAG00000047073 |
| 16 | 70,875,000 | 71,025,000 | 946 | 332 | -1.113637729 | ARL8A,GPR37L1,LGR6,PTPN7,UBE2T,ENSBTAG00000047073 |
| 16 | 70,950,000 | 71,100,000 | 947 | 547 | -0.743485001 | LGR6,PPP1R12B,UBE2T |
| 16 | 71,025,000 | 71,175,000 | 948 | 672 | 0.323683993 | PPP1R12B,SYT2 |
| 16 | 71,100,000 | 71,250,000 | 949 | 698 | 0.339833364 | PPP1R12B,SYT2 |
| 16 | 71,175,000 | 71,325,000 | 950 | 599 | -0.65417224 | |
| 16 | 71,250,000 | 71,400,000 | 951 | 437 | -2.241738009 | |
| 16 | 71,325,000 | 71,475,000 | 952 | 416 | -1.805794421 | PROX1 |
| 16 | 71,400,000 | 71,550,000 | 953 | 697 | 0.169763348 | PROX1 |
| 16 | 71,475,000 | 71,625,000 | 954 | 1171 | 0.416077495 | |
| 16 | 71,550,000 | 71,700,000 | 955 | 1384 | 0.707125694 | |
| 16 | 71,625,000 | 71,775,000 | 956 | 1506 | 0.366088484 | |
| 16 | 71,700,000 | 71,850,000 | 957 | 1645 | -0.041219837 | |
| 16 | 71,775,000 | 71,925,000 | 958 | 1590 | -0.102559406 | |
| 16 | 71,850,000 | 72,000,000 | 959 | 1445 | 0.705105812 | |
| 16 | 71,925,000 | 72,075,000 | 960 | 1658 | 1.09875492 | |
| 16 | 72,000,000 | 72,150,000 | 961 | 1715 | 0.962205428 | |
| 16 | 72,075,000 | 72,225,000 | 962 | 1592 | 0.817530325 | |
| 16 | 72,150,000 | 72,300,000 | 963 | 1367 | 0.695453967 | RPS6KC1 |
| 16 | 72,225,000 | 72,375,000 | 964 | 1074 | -0.794833458 | RPS6KC1 |
| 16 | 72,300,000 | 72,450,000 | 965 | 990 | -0.766571131 | RPS6KC1 |
| 16 | 72,375,000 | 72,525,000 | 966 | 963 | 0.677507711 | ANGEL2,RPS6KC1,VASH2 |
| 16 | 72,450,000 | 72,600,000 | 967 | 849 | 0.441101315 | ANGEL2,FLVCR1,VASH2 |
| 16 | 72,525,000 | 72,675,000 | 968 | 976 | 0.064095831 | FLVCR1,NSL1,SPATA45,TATDN3,VASH2 |
| 16 | 72,600,000 | 72,750,000 | 969 | 1063 | -0.402374339 | BATF3,NSL1,SPATA45,TATDN3 |
| 16 | 72,675,000 | 72,825,000 | 970 | 876 | -0.122478377 | ATF3,BATF3,FAM71A,NSL1 |
| 16 | 72,750,000 | 72,900,000 | 971 | 940 | 0.045122671 | ATF3,BATF3,FAM71A |
| 16 | 72,825,000 | 72,975,000 | 972 | 1224 | 0.563456195 | ATF3 |
| 16 | 72,900,000 | 73,050,000 | 973 | 1583 | 1.055370657 | NENF,TMEM206 |
| 16 | 72,975,000 | 73,125,000 | 974 | 1302 | 0.741611601 | NENF,PPP2R5A,TMEM206 |
| 16 | 73,050,000 | 73,200,000 | 975 | 880 | 0.423189965 | PPP2R5A,TMEM206 |
| 16 | 73,125,000 | 73,275,000 | 976 | 1116 | 0.693705632 | PPP2R5A |
| 16 | 73,200,000 | 73,350,000 | 977 | 1188 | 0.060745839 | DTL |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------------|
| 16 | 73,275,000 | 73,425,000 | 978 | 1047 | -1.957491941 | DTL,INTS7 |
| 16 | 73,350,000 | 73,500,000 | 979 | 956 | -1.574823646 | DTL,INTS7 |
| 16 | 73,425,000 | 73,575,000 | 980 | 804 | 0.145670963 | INTS7,LPGAT1 |
| 16 | 73,500,000 | 73,650,000 | 981 | 852 | 0.360911476 | LPGAT1 |
| 16 | 73,575,000 | 73,725,000 | 982 | 1191 | -0.646068864 | LPGAT1,NEK2 |
| 16 | 73,650,000 | 73,800,000 | 983 | 1227 | -0.40618261 | NEK2,SLC30A1 |
| 16 | 73,725,000 | 73,875,000 | 984 | 1322 | 0.45590843 | RD3,SLC30A1 |
| 16 | 73,800,000 | 73,950,000 | 985 | 1238 | 0.201280966 | RD3,TRAF5 |
| 16 | 73,875,000 | 74,025,000 | 986 | 639 | 0.283310283 | RCOR3,TRAF5 |
| 16 | 73,950,000 | 74,100,000 | 987 | 510 | 0.767216563 | RCOR3 |
| 16 | 74,025,000 | 74,175,000 | 988 | 995 | 0.895369903 | KCNH1 |
| 16 | 74,100,000 | 74,250,000 | 989 | 1432 | 0.936683244 | KCNH1 |
| 16 | 74,175,000 | 74,325,000 | 990 | 1657 | 0.789448316 | KCNH1 |
| 16 | 74,250,000 | 74,400,000 | 991 | 1602 | 0.431259762 | KCNH1 |
| 16 | 74,325,000 | 74,475,000 | 992 | 1340 | 0.050528582 | KCNH1 |
| 16 | 74,400,000 | 74,550,000 | 993 | 1531 | 0.307953471 | KCNH1 |
| 16 | 74,475,000 | 74,625,000 | 994 | 1601 | 0.318672471 | KCNH1 |
| 16 | 74,550,000 | 74,700,000 | 995 | 1546 | 0.348792477 | |
| 16 | 74,625,000 | 74,775,000 | 996 | 1552 | 0.367090964 | |
| 16 | 74,700,000 | 74,850,000 | 997 | 1585 | 0.135247096 | |
| 16 | 74,775,000 | 74,925,000 | 998 | 1351 | 0.199767004 | |
| 16 | 74,850,000 | 75,000,000 | 999 | 923 | 0.766262131 | SERTAD4 |
| 16 | 74,925,000 | 75,075,000 | 1000 | 759 | 0.79475746 | SERTAD4,SYT14 |
| 16 | 75,000,000 | 75,150,000 | 1001 | 898 | 1.101645262 | SERTAD4,SYT14 |
| 16 | 75,075,000 | 75,225,000 | 1002 | 1087 | 0.793507874 | SYT14 |
| 16 | 75,150,000 | 75,300,000 | 1003 | 1058 | -0.403102282 | SYT14 |
| 16 | 75,225,000 | 75,375,000 | 1004 | 1080 | -1.869267917 | DIEXF |
| 16 | 75,300,000 | 75,450,000 | 1005 | 1128 | -0.741446091 | C1orf74,DIEXF,IRF6,TRAF3IP3 |
| 16 | 75,375,000 | 75,525,000 | 1006 | 1172 | 0.952955823 | C1orf74,HSD11B1,IRF6,TRAF3IP3 |
| 16 | 75,450,000 | 75,600,000 | 1007 | 1279 | 0.870415004 | GOS2,HSD11B1,LAMB3 |
| 16 | 75,525,000 | 75,675,000 | 1008 | 1232 | 0.622579409 | CAMK1G,GOS2,LAMB3 |
| 16 | 75,600,000 | 75,750,000 | 1009 | 1559 | -0.83456627 | CAMK1G,LAMB3 |
| 16 | 75,675,000 | 75,825,000 | 1010 | 1670 | -1.672080134 | |
| 16 | 75,750,000 | 75,900,000 | 1011 | 1275 | -1.257997477 | |
| 16 | 75,825,000 | 75,975,000 | 1012 | 1075 | 0.292169045 | |
| 16 | 75,900,000 | 76,050,000 | 1013 | 1147 | 0.962749007 | |
| 16 | 75,975,000 | 76,125,000 | 1014 | 1077 | 0.442057218 | |
| 16 | 76,050,000 | 76,200,000 | 1015 | 1033 | 0.712950602 | |
| 16 | 76,125,000 | 76,275,000 | 1016 | 1329 | 0.805242506 | |
| 16 | 76,200,000 | 76,350,000 | 1017 | 1505 | -1.024135717 | |
| 16 | 76,275,000 | 76,425,000 | 1018 | 1106 | -0.921588523 | |
| 16 | 76,350,000 | 76,500,000 | 1019 | 631 | 0.853991398 | |
| 16 | 76,425,000 | 76,575,000 | 1020 | 844 | 0.93771505 | |
| 16 | 76,500,000 | 76,650,000 | 1021 | 1070 | 0.404846585 | |
| 16 | 76,575,000 | 76,725,000 | 1022 | 1424 | -1.225199987 | |
| 16 | 76,650,000 | 76,800,000 | 1023 | 1496 | -1.479460094 | |
| 16 | 76,725,000 | 76,875,000 | 1024 | 1154 | -0.516745177 | |
| 16 | 76,800,000 | 76,950,000 | 1025 | 1055 | -0.190552951 | |
| 16 | 76,875,000 | 77,025,000 | 1026 | 1069 | 0.229539963 | |
| 16 | 76,950,000 | 77,100,000 | 1027 | 869 | 0.105667179 | PLXNA2 |
| 16 | 77,025,000 | 77,175,000 | 1028 | 741 | 0.583542152 | PLXNA2 |
| 16 | 77,100,000 | 77,250,000 | 1029 | 818 | 1.339252311 | PLXNA2 |
| 16 | 77,175,000 | 77,325,000 | 1030 | 950 | 1.320419753 | PLXNA2 |

| | | | | | | |
|----|------------|------------|------|------|--------------|------------------------------------|
| 16 | 77,250,000 | 77,400,000 | 1031 | 945 | 1.169611446 | CD34,PLXNA2 |
| 16 | 77,325,000 | 77,475,000 | 1032 | 1040 | 1.337357207 | CD34 |
| 16 | 77,400,000 | 77,550,000 | 1033 | 1154 | 1.100833099 | CD46 |
| 16 | 77,475,000 | 77,625,000 | 1034 | 1525 | 0.637612886 | CD46 |
| 16 | 77,550,000 | 77,700,000 | 1035 | 2003 | 0.417590477 | |
| 16 | 77,625,000 | 77,775,000 | 1036 | 1497 | 0.40932075 | ENSBTAG00000030910 |
| 16 | 77,700,000 | 77,850,000 | 1037 | 1138 | 1.238174067 | F13B,ENSBTAG00000030910 |
| 16 | 77,775,000 | 77,925,000 | 1038 | 1434 | 0.660197652 | ASPM,CFHR5,F13B,ENSBTAG00000030910 |
| 16 | 77,850,000 | 78,000,000 | 1039 | 1269 | -1.589780945 | ASPM,CFHR5,F13B |
| 16 | 77,925,000 | 78,075,000 | 1040 | 914 | -2.895633412 | ASPM,ZBTB41 |
| 16 | 78,000,000 | 78,150,000 | 1041 | 1330 | -0.99879966 | CRB1,ZBTB41 |
| 16 | 78,075,000 | 78,225,000 | 1042 | 1626 | -0.770098684 | CRB1 |
| 16 | 78,150,000 | 78,300,000 | 1043 | 1216 | -0.284726015 | CRB1 |
| 16 | 78,225,000 | 78,375,000 | 1044 | 1059 | 0.410474097 | CRB1 |
| 16 | 78,300,000 | 78,450,000 | 1045 | 1110 | 0.861293925 | CRB1,DENND1B |
| 16 | 78,375,000 | 78,525,000 | 1046 | 942 | 0.914492199 | DENND1B |
| 16 | 78,450,000 | 78,600,000 | 1047 | 997 | 0.970846933 | DENND1B |
| 16 | 78,525,000 | 78,675,000 | 1048 | 1315 | 0.524174743 | DENND1B |
| 16 | 78,600,000 | 78,750,000 | 1049 | 1363 | 0.003428362 | |
| 16 | 78,675,000 | 78,825,000 | 1050 | 913 | 0.003036292 | LHX9 |
| 16 | 78,750,000 | 78,900,000 | 1051 | 484 | 0.018658333 | LHX9 |
| 16 | 78,825,000 | 78,975,000 | 1052 | 735 | -4.21639203 | |
| 16 | 78,900,000 | 79,050,000 | 1053 | 840 | -4.872008324 | |
| 16 | 78,975,000 | 79,125,000 | 1054 | 572 | -0.958093461 | NEK7 |
| 16 | 79,050,000 | 79,200,000 | 1055 | 398 | -0.569425907 | NEK7 |
| 16 | 79,125,000 | 79,275,000 | 1056 | 485 | 0.357159972 | NEK7 |
| 16 | 79,200,000 | 79,350,000 | 1057 | 1020 | 0.579005618 | ATP6V1G3 |
| 16 | 79,275,000 | 79,425,000 | 1058 | 1226 | 0.589005059 | ATP6V1G3 |
| 16 | 79,350,000 | 79,500,000 | 1059 | 850 | 0.71931318 | ATP6V1G3 |
| 16 | 79,425,000 | 79,575,000 | 1060 | 1066 | 1.151965126 | PTPRC,ENSBTAG00000046345 |
| 16 | 79,500,000 | 79,650,000 | 1061 | 1241 | -0.368581788 | PTPRC,ENSBTAG00000046345 |
| 16 | 79,575,000 | 79,725,000 | 1062 | 1065 | -1.498429511 | PTPRC |
| 16 | 79,650,000 | 79,800,000 | 1063 | 1142 | -0.255582686 | |
| 16 | 79,725,000 | 79,875,000 | 1064 | 1437 | 0.376723223 | |
| 16 | 79,800,000 | 79,950,000 | 1065 | 1939 | 0.405896725 | |
| 16 | 79,875,000 | 80,025,000 | 1066 | 1422 | 0.438899995 | |
| 16 | 79,950,000 | 80,100,000 | 1067 | 973 | 0.781325517 | |
| 16 | 80,025,000 | 80,175,000 | 1068 | 1104 | 0.194220688 | |
| 16 | 80,100,000 | 80,250,000 | 1069 | 1597 | 0.516102046 | |
| 16 | 80,175,000 | 80,325,000 | 1070 | 2134 | 0.643760106 | |
| 16 | 80,250,000 | 80,400,000 | 1071 | 1830 | 0.363346381 | |
| 16 | 80,325,000 | 80,475,000 | 1072 | 1830 | 0.494094387 | |
| 16 | 80,400,000 | 80,550,000 | 1073 | 1941 | 0.593980263 | |
| 16 | 80,475,000 | 80,625,000 | 1074 | 1457 | 1.069358912 | |
| 16 | 80,550,000 | 80,700,000 | 1075 | 793 | 1.327224877 | |
| 16 | 80,625,000 | 80,775,000 | 1076 | 533 | 0.638252231 | NR5A2 |
| 16 | 80,700,000 | 80,850,000 | 1077 | 682 | 0.898340769 | NR5A2 |
| 16 | 80,775,000 | 80,925,000 | 1078 | 804 | 0.852830133 | NR5A2 |
| 16 | 80,850,000 | 81,000,000 | 1079 | 1103 | 0.441041924 | NR5A2 |
| 16 | 80,925,000 | 81,075,000 | 1080 | 1015 | 0.472325272 | ZNF281 |
| 16 | 81,000,000 | 81,150,000 | 1081 | 753 | 0.579268197 | KIF14,ZNF281 |
| 16 | 81,075,000 | 81,225,000 | 1082 | 897 | 0.807936251 | DDX59,KIF14 |
| 16 | 81,150,000 | 81,300,000 | 1083 | 808 | 0.728405912 | CAMSAP2,DDX59,KIF14 |

| | | | | | | |
|----|------------|------------|------|------|--------------|-------------------------|
| 16 | 81,225,000 | 81,375,000 | 1084 | 698 | 0.133181161 | C1orf106,CAMSAP2 |
| 16 | 81,300,000 | 81,450,000 | 1085 | 550 | -0.180335087 | C1orf106,CAMSAP2,KIF21B |
| 16 | 81,375,000 | 81,525,000 | 1086 | 620 | 0.378212894 | C1orf106,CACNA1S,KIF21B |
| 16 | 81,450,000 | 81,600,000 | 1087 | 674 | 0.028836025 | CACNA1S,TMEM9 |
| 16 | 81,525,000 | 81,675,000 | 1088 | 537 | -0.321711725 | CACNA1S,IGFN1,TMEM9 |
| 16 | 81,600,000 | 81,724,687 | 1089 | 447 | -1.15E-05 | IGFN1,PKP1 |
| 17 | 0 | 150,000 | 1 | 722 | -1.579866735 | ENSBTAG00000048129 |
| 17 | 75,000 | 225,000 | 2 | 629 | 0.516031029 | TMEM192 |
| 17 | 150,000 | 300,000 | 3 | 867 | 1.191501938 | TMEM192 |
| 17 | 225,000 | 375,000 | 4 | 821 | 1.007553021 | KLHL2 |
| 17 | 300,000 | 450,000 | 5 | 843 | 0.499081827 | KLHL2 |
| 17 | 375,000 | 525,000 | 6 | 1168 | 0.329456195 | KLHL2,SC4MOL |
| 17 | 450,000 | 600,000 | 7 | 1585 | -0.197382659 | CPE,KLHL2,SC4MOL |
| 17 | 525,000 | 675,000 | 8 | 1527 | -0.300020844 | CPE |
| 17 | 600,000 | 750,000 | 9 | 840 | -0.135784123 | CPE |
| 17 | 675,000 | 825,000 | 10 | 664 | -0.201793462 | CPE |
| 17 | 750,000 | 900,000 | 11 | 682 | -0.857938376 | |
| 17 | 825,000 | 975,000 | 12 | 833 | -0.610492788 | |
| 17 | 900,000 | 1,050,000 | 13 | 1243 | -1.060733081 | |
| 17 | 975,000 | 1,125,000 | 14 | 1450 | -0.363590566 | |
| 17 | 1,050,000 | 1,200,000 | 15 | 1557 | 0.592109191 | |
| 17 | 1,125,000 | 1,275,000 | 16 | 1384 | 0.298376549 | |
| 17 | 1,200,000 | 1,350,000 | 17 | 1087 | 0.059955907 | |
| 17 | 1,275,000 | 1,425,000 | 18 | 1111 | 0.054292675 | |
| 17 | 1,350,000 | 1,500,000 | 19 | 907 | -0.565084187 | TLL1 |
| 17 | 1,425,000 | 1,575,000 | 20 | 768 | -1.259850625 | TLL1 |
| 17 | 1,500,000 | 1,650,000 | 21 | 1040 | -1.235400241 | TLL1 |
| 17 | 1,575,000 | 1,725,000 | 22 | 1390 | -1.535867671 | TLL1 |
| 17 | 1,650,000 | 1,800,000 | 23 | 1280 | -0.285630087 | TLL1 |
| 17 | 1,725,000 | 1,875,000 | 24 | 1051 | 0.705191068 | TLL1 |
| 17 | 1,800,000 | 1,950,000 | 25 | 1314 | 0.580434006 | MAP9,TLL1 |
| 17 | 1,875,000 | 2,025,000 | 26 | 1730 | 0.97553258 | MAP9 |
| 17 | 1,950,000 | 2,100,000 | 27 | 1364 | 1.192697899 | NPY2R |
| 17 | 2,025,000 | 2,175,000 | 28 | 872 | 0.940461117 | NPY2R |
| 17 | 2,100,000 | 2,250,000 | 29 | 951 | 0.892735513 | |
| 17 | 2,175,000 | 2,325,000 | 30 | 1212 | 0.550351868 | |
| 17 | 2,250,000 | 2,400,000 | 31 | 1965 | 0.303376917 | |
| 17 | 2,325,000 | 2,475,000 | 32 | 1809 | 0.025999072 | |
| 17 | 2,400,000 | 2,550,000 | 33 | 821 | -0.366626891 | RBM46 |
| 17 | 2,475,000 | 2,625,000 | 34 | 830 | 0.325022643 | RBM46 |
| 17 | 2,550,000 | 2,700,000 | 35 | 1137 | -0.000765261 | LRAT,RBM46 |
| 17 | 2,625,000 | 2,775,000 | 36 | 1307 | 0.15382424 | LRAT |
| 17 | 2,700,000 | 2,850,000 | 37 | 1389 | 0.813588913 | FGA,FGG |
| 17 | 2,775,000 | 2,925,000 | 38 | 1326 | 0.99840197 | FGA,FGB,FGG,PLRG1 |
| 17 | 2,850,000 | 3,000,000 | 39 | 1351 | 0.486451618 | FGB,PLRG1 |
| 17 | 2,925,000 | 3,075,000 | 40 | 1316 | -0.187806466 | |
| 17 | 3,000,000 | 3,150,000 | 41 | 1392 | 0.120809873 | DCHS2 |
| 17 | 3,075,000 | 3,225,000 | 42 | 1343 | 0.013612942 | DCHS2 |
| 17 | 3,150,000 | 3,300,000 | 43 | 1169 | 0.233092083 | DCHS2 |
| 17 | 3,225,000 | 3,375,000 | 44 | 1295 | 1.202238816 | DCHS2 |
| 17 | 3,300,000 | 3,450,000 | 45 | 1243 | 1.260079846 | DCHS2 |
| 17 | 3,375,000 | 3,525,000 | 46 | 940 | 0.645292279 | |
| 17 | 3,450,000 | 3,600,000 | 47 | 951 | 0.784848388 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|----------------------|
| 17 | 3,525,000 | 3,675,000 | 48 | 1156 | 0.777574124 | |
| 17 | 3,600,000 | 3,750,000 | 49 | 968 | 0.508933797 | |
| 17 | 3,675,000 | 3,825,000 | 50 | 584 | 0.557898945 | |
| 17 | 3,750,000 | 3,900,000 | 51 | 1074 | -0.197045316 | RNF175,SFRP2 |
| 17 | 3,825,000 | 3,975,000 | 52 | 1596 | -0.14341644 | RNF175,SFRP2,TLR2 |
| 17 | 3,900,000 | 4,050,000 | 53 | 1388 | 0.588138454 | KIAA0922,RNF175,TLR2 |
| 17 | 3,975,000 | 4,125,000 | 54 | 939 | 0.969173147 | KIAA0922 |
| 17 | 4,050,000 | 4,200,000 | 55 | 845 | 0.571209555 | KIAA0922 |
| 17 | 4,125,000 | 4,275,000 | 56 | 1128 | -0.041846113 | MND1 |
| 17 | 4,200,000 | 4,350,000 | 57 | 1446 | -0.017640568 | MND1,TRIM2 |
| 17 | 4,275,000 | 4,425,000 | 58 | 1776 | 0.604086768 | MND1,TRIM2 |
| 17 | 4,350,000 | 4,500,000 | 59 | 1497 | 0.674619271 | TRIM2 |
| 17 | 4,425,000 | 4,575,000 | 60 | 981 | 0.872192459 | TRIM2 |
| 17 | 4,500,000 | 4,650,000 | 61 | 1017 | 0.882792236 | |
| 17 | 4,575,000 | 4,725,000 | 62 | 1122 | 1.050870098 | FHDC1 |
| 17 | 4,650,000 | 4,800,000 | 63 | 1096 | 1.135603219 | ARFIP1,FHDC1 |
| 17 | 4,725,000 | 4,875,000 | 64 | 1535 | 0.197801409 | ARFIP1 |
| 17 | 4,800,000 | 4,950,000 | 65 | 1649 | -0.319070899 | ARFIP1,TIGD4 |
| 17 | 4,875,000 | 5,025,000 | 66 | 992 | -0.453697906 | TIGD4 |
| 17 | 4,950,000 | 5,100,000 | 67 | 821 | -0.248388543 | |
| 17 | 5,025,000 | 5,175,000 | 68 | 1055 | 0.560695612 | |
| 17 | 5,100,000 | 5,250,000 | 69 | 757 | 1.206758118 | |
| 17 | 5,175,000 | 5,325,000 | 70 | 406 | 0.185533896 | FBXW7 |
| 17 | 5,250,000 | 5,400,000 | 71 | 629 | -0.478412259 | FBXW7 |
| 17 | 5,325,000 | 5,475,000 | 72 | 980 | -0.443931297 | FBXW7 |
| 17 | 5,400,000 | 5,550,000 | 73 | 1136 | 0.137285535 | |
| 17 | 5,475,000 | 5,625,000 | 74 | 920 | 0.25720764 | |
| 17 | 5,550,000 | 5,700,000 | 75 | 589 | -0.324669683 | |
| 17 | 5,625,000 | 5,775,000 | 76 | 763 | -0.621118836 | |
| 17 | 5,700,000 | 5,850,000 | 77 | 1311 | -0.405655767 | |
| 17 | 5,775,000 | 5,925,000 | 78 | 1317 | 0.091520625 | |
| 17 | 5,850,000 | 6,000,000 | 79 | 888 | 0.429739883 | PET112L |
| 17 | 5,925,000 | 6,075,000 | 80 | 724 | 0.815612184 | PET112L |
| 17 | 6,000,000 | 6,150,000 | 81 | 998 | 0.608923946 | FAM160A1,PET112L |
| 17 | 6,075,000 | 6,225,000 | 82 | 1099 | 0.666492467 | FAM160A1,PET112L |
| 17 | 6,150,000 | 6,300,000 | 83 | 892 | 0.923194846 | FAM160A1 |
| 17 | 6,225,000 | 6,375,000 | 84 | 875 | 0.726134231 | |
| 17 | 6,300,000 | 6,450,000 | 85 | 1267 | -0.546283303 | |
| 17 | 6,375,000 | 6,525,000 | 86 | 1191 | -0.720704809 | PRSS48 |
| 17 | 6,450,000 | 6,600,000 | 87 | 808 | 1.091686053 | PRSS48 |
| 17 | 6,525,000 | 6,675,000 | 88 | 770 | 0.927137915 | PRSS48,SH3D19 |
| 17 | 6,600,000 | 6,750,000 | 89 | 916 | -0.422040125 | RPS3A,SH3D19 |
| 17 | 6,675,000 | 6,825,000 | 90 | 1110 | -0.38787921 | RPS3A,SH3D19 |
| 17 | 6,750,000 | 6,900,000 | 91 | 937 | -0.853153543 | LRBA |
| 17 | 6,825,000 | 6,975,000 | 92 | 606 | -1.795780467 | LRBA |
| 17 | 6,900,000 | 7,050,000 | 93 | 667 | -0.05820283 | LRBA |
| 17 | 6,975,000 | 7,125,000 | 94 | 1021 | 0.914684131 | LRBA |
| 17 | 7,050,000 | 7,200,000 | 95 | 1125 | 0.741454849 | LRBA |
| 17 | 7,125,000 | 7,275,000 | 96 | 807 | 0.311490247 | LRBA,MAB21L2 |
| 17 | 7,200,000 | 7,350,000 | 97 | 526 | -0.214411625 | LRBA,MAB21L2 |
| 17 | 7,275,000 | 7,425,000 | 98 | 532 | -0.151947802 | LRBA |
| 17 | 7,350,000 | 7,500,000 | 99 | 549 | 0.305190329 | LRBA |
| 17 | 7,425,000 | 7,575,000 | 100 | 880 | 0.782316724 | DCLK2,LRBA |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 17 | 7,500,000 | 7,650,000 | 101 | 708 | 0.794308316 | DCLK2,LRBA |
| 17 | 7,575,000 | 7,725,000 | 102 | 479 | 0.105572395 | DCLK2 |
| 17 | 7,650,000 | 7,800,000 | 103 | 781 | -1.595375484 | DCLK2 |
| 17 | 7,725,000 | 7,875,000 | 104 | 991 | -1.237879674 | DCLK2 |
| 17 | 7,800,000 | 7,950,000 | 105 | 1077 | -0.340355783 | |
| 17 | 7,875,000 | 8,025,000 | 106 | 865 | -0.700367665 | |
| 17 | 7,950,000 | 8,100,000 | 107 | 728 | -1.380766132 | |
| 17 | 8,025,000 | 8,175,000 | 108 | 622 | -2.123745332 | |
| 17 | 8,100,000 | 8,250,000 | 109 | 606 | -0.101254732 | |
| 17 | 8,175,000 | 8,325,000 | 110 | 1167 | 0.348414116 | |
| 17 | 8,250,000 | 8,400,000 | 111 | 1422 | 0.089035421 | |
| 17 | 8,325,000 | 8,475,000 | 112 | 1220 | -0.322180798 | |
| 17 | 8,400,000 | 8,550,000 | 113 | 1230 | 0.060384846 | |
| 17 | 8,475,000 | 8,625,000 | 114 | 1401 | 0.178819083 | |
| 17 | 8,550,000 | 8,700,000 | 115 | 1096 | -0.053339368 | |
| 17 | 8,625,000 | 8,775,000 | 116 | 948 | 0.58057836 | |
| 17 | 8,700,000 | 8,850,000 | 117 | 1652 | 0.51992204 | |
| 17 | 8,775,000 | 8,925,000 | 118 | 2322 | 0.390722535 | ENSBTAG00000045580 |
| 17 | 8,850,000 | 9,000,000 | 119 | 2354 | 0.3539076 | ENSBTAG00000045580 |
| 17 | 8,925,000 | 9,075,000 | 120 | 1374 | 0.33194955 | |
| 17 | 9,000,000 | 9,150,000 | 121 | 727 | 1.070265249 | |
| 17 | 9,075,000 | 9,225,000 | 122 | 785 | 0.787451295 | |
| 17 | 9,150,000 | 9,300,000 | 123 | 1140 | 0.104568914 | |
| 17 | 9,225,000 | 9,375,000 | 124 | 1252 | 0.332459128 | |
| 17 | 9,300,000 | 9,450,000 | 125 | 1124 | 0.602780664 | |
| 17 | 9,375,000 | 9,525,000 | 126 | 1074 | -0.123050428 | |
| 17 | 9,450,000 | 9,600,000 | 127 | 595 | -0.898389582 | |
| 17 | 9,525,000 | 9,675,000 | 128 | 578 | 0.01793174 | |
| 17 | 9,600,000 | 9,750,000 | 129 | 736 | 0.095397983 | NR3C2 |
| 17 | 9,675,000 | 9,825,000 | 130 | 847 | 0.372098462 | NR3C2 |
| 17 | 9,750,000 | 9,900,000 | 131 | 855 | 0.95247879 | NR3C2 |
| 17 | 9,825,000 | 9,975,000 | 132 | 725 | 0.571464678 | NR3C2 |
| 17 | 9,900,000 | 10,050,000 | 133 | 663 | 0.227307373 | NR3C2 |
| 17 | 9,975,000 | 10,125,000 | 134 | 557 | 0.641328475 | NR3C2 |
| 17 | 10,050,000 | 10,200,000 | 135 | 546 | -0.574976104 | ARHGAP10,NR3C2 |
| 17 | 10,125,000 | 10,275,000 | 136 | 822 | -1.948184318 | ARHGAP10,NR3C2 |
| 17 | 10,200,000 | 10,350,000 | 137 | 1074 | -0.48205627 | ARHGAP10 |
| 17 | 10,275,000 | 10,425,000 | 138 | 1092 | 0.44133944 | ARHGAP10 |
| 17 | 10,350,000 | 10,500,000 | 139 | 1087 | 0.392900861 | ARHGAP10 |
| 17 | 10,425,000 | 10,575,000 | 140 | 861 | -0.135336199 | ARHGAP10 |
| 17 | 10,500,000 | 10,650,000 | 141 | 867 | -0.010712011 | ARHGAP10,MGC151858,TMEM34 |
| 17 | 10,575,000 | 10,725,000 | 142 | 779 | 0.371113033 | MGC151858,TMEM34 |
| 17 | 10,650,000 | 10,800,000 | 143 | 921 | -0.923425133 | EDNRA,TMEM34 |
| 17 | 10,725,000 | 10,875,000 | 144 | 1311 | -2.27393076 | EDNRA |
| 17 | 10,800,000 | 10,950,000 | 145 | 1227 | -0.885319168 | EDNRA |
| 17 | 10,875,000 | 11,025,000 | 146 | 1124 | -0.629322658 | |
| 17 | 10,950,000 | 11,100,000 | 147 | 1042 | -0.939950559 | |
| 17 | 11,025,000 | 11,175,000 | 148 | 745 | -0.282401798 | |
| 17 | 11,100,000 | 11,250,000 | 149 | 677 | -0.930059512 | |
| 17 | 11,175,000 | 11,325,000 | 150 | 1103 | 0.014757754 | |
| 17 | 11,250,000 | 11,400,000 | 151 | 1146 | 0.59528871 | |
| 17 | 11,325,000 | 11,475,000 | 152 | 704 | -0.238184943 | |
| 17 | 11,400,000 | 11,550,000 | 153 | 711 | -0.990303788 | TTC29 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 17 | 11,475,000 | 11,625,000 | 154 | 751 | -0.399656085 | TTC29 |
| 17 | 11,550,000 | 11,700,000 | 155 | 532 | -0.222228578 | TTC29 |
| 17 | 11,625,000 | 11,775,000 | 156 | 678 | -1.738692326 | RNF146A,TTC29 |
| 17 | 11,700,000 | 11,850,000 | 157 | 766 | -0.079124442 | POU4F2,RNF146A,TTC29 |
| 17 | 11,775,000 | 11,925,000 | 158 | 772 | 1.065992008 | POU4F2,SLC10A7 |
| 17 | 11,850,000 | 12,000,000 | 159 | 1275 | 1.153285156 | SLC10A7 |
| 17 | 11,925,000 | 12,075,000 | 160 | 1397 | 1.14639401 | SLC10A7 |
| 17 | 12,000,000 | 12,150,000 | 161 | 1017 | -0.851769638 | SLC10A7 |
| 17 | 12,075,000 | 12,225,000 | 162 | 1209 | -0.114781418 | ENSBTAG00000048020 |
| 17 | 12,150,000 | 12,300,000 | 163 | 1361 | -0.154317422 | ENSBTAG00000048020 |
| 17 | 12,225,000 | 12,375,000 | 164 | 1028 | -1.484393035 | LSM6,ENSBTAG00000048020 |
| 17 | 12,300,000 | 12,450,000 | 165 | 882 | 0.099590831 | LSM6 |
| 17 | 12,375,000 | 12,525,000 | 166 | 1060 | 0.227085876 | |
| 17 | 12,450,000 | 12,600,000 | 167 | 1136 | -0.01353092 | ZNF827 |
| 17 | 12,525,000 | 12,675,000 | 168 | 1067 | 0.210473185 | ZNF827 |
| 17 | 12,600,000 | 12,750,000 | 169 | 1012 | 0.602394463 | ZNF827,ENSBTAG00000019880 |
| 17 | 12,675,000 | 12,825,000 | 170 | 1020 | 1.087999138 | MMAA,ZNF827,ENSBTAG00000019880 |
| 17 | 12,750,000 | 12,900,000 | 171 | 830 | 0.642678276 | MMAA |
| 17 | 12,825,000 | 12,975,000 | 172 | 605 | -0.609082284 | MMAA,SMAD1 |
| 17 | 12,900,000 | 13,050,000 | 173 | 706 | 0.617931269 | SMAD1 |
| 17 | 12,975,000 | 13,125,000 | 174 | 585 | 1.068175992 | |
| 17 | 13,050,000 | 13,200,000 | 175 | 253 | 0.544911587 | |
| 17 | 13,125,000 | 13,275,000 | 176 | 362 | -0.719520207 | |
| 17 | 13,200,000 | 13,350,000 | 177 | 543 | -0.339857005 | ABCE1,OTUD4 |
| 17 | 13,275,000 | 13,425,000 | 178 | 537 | 0.718242774 | ABCE1,ANAPC10,OTUD4 |
| 17 | 13,350,000 | 13,500,000 | 179 | 606 | 0.968044481 | ABCE1,ANAPC10 |
| 17 | 13,425,000 | 13,575,000 | 180 | 546 | 0.917356074 | ANAPC10 |
| 17 | 13,500,000 | 13,650,000 | 181 | 492 | 0.921202638 | HHIP |
| 17 | 13,575,000 | 13,725,000 | 182 | 768 | 0.550204421 | HHIP |
| 17 | 13,650,000 | 13,800,000 | 183 | 1167 | 0.424275212 | HHIP |
| 17 | 13,725,000 | 13,875,000 | 184 | 1415 | 0.709681865 | HHIP |
| 17 | 13,800,000 | 13,950,000 | 185 | 1728 | 0.973943981 | |
| 17 | 13,875,000 | 14,025,000 | 186 | 1843 | 0.196115086 | |
| 17 | 13,950,000 | 14,100,000 | 187 | 1807 | -0.901974663 | |
| 17 | 14,025,000 | 14,175,000 | 188 | 1984 | -0.625994238 | |
| 17 | 14,100,000 | 14,250,000 | 189 | 1842 | -0.346204347 | GPA |
| 17 | 14,175,000 | 14,325,000 | 190 | 2396 | -0.044643591 | GPA,GYPB |
| 17 | 14,250,000 | 14,400,000 | 191 | 2820 | 0.463928075 | GPA,GYPB |
| 17 | 14,325,000 | 14,475,000 | 192 | 2763 | 0.432686675 | GYPB |
| 17 | 14,400,000 | 14,550,000 | 193 | 2671 | 0.338359334 | SMARCA5 |
| 17 | 14,475,000 | 14,625,000 | 194 | 1978 | -0.034125415 | SMARCA5 |
| 17 | 14,550,000 | 14,700,000 | 195 | 1740 | -0.147949558 | GAB1,SMARCA5 |
| 17 | 14,625,000 | 14,775,000 | 196 | 1546 | -0.124588423 | GAB1 |
| 17 | 14,700,000 | 14,850,000 | 197 | 1584 | -0.240767759 | GAB1 |
| 17 | 14,775,000 | 14,925,000 | 198 | 1648 | 0.074528492 | USP38 |
| 17 | 14,850,000 | 15,000,000 | 199 | 1694 | 0.556996901 | USP38 |
| 17 | 14,925,000 | 15,075,000 | 200 | 2202 | 0.15107628 | |
| 17 | 15,000,000 | 15,150,000 | 201 | 2131 | -0.335535059 | |
| 17 | 15,075,000 | 15,225,000 | 202 | 1538 | -0.085297846 | |
| 17 | 15,150,000 | 15,300,000 | 203 | 1440 | -1.185340966 | ENSBTAG00000045665 |
| 17 | 15,225,000 | 15,375,000 | 204 | 1624 | -1.937947458 | ENSBTAG00000045665 |
| 17 | 15,300,000 | 15,450,000 | 205 | 1188 | -1.257089606 | |
| 17 | 15,375,000 | 15,525,000 | 206 | 678 | -1.367337063 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 15,450,000 | 15,600,000 | 207 | 981 | -0.518578729 | |
| 17 | 15,525,000 | 15,675,000 | 208 | 1542 | 0.247481236 | |
| 17 | 15,600,000 | 15,750,000 | 209 | 1460 | 0.48560231 | INPP4B |
| 17 | 15,675,000 | 15,825,000 | 210 | 1340 | 0.350049542 | INPP4B |
| 17 | 15,750,000 | 15,900,000 | 211 | 1391 | 0.365581431 | INPP4B |
| 17 | 15,825,000 | 15,975,000 | 212 | 1363 | 0.849715593 | INPP4B |
| 17 | 15,900,000 | 16,050,000 | 213 | 1396 | 0.795577647 | INPP4B |
| 17 | 15,975,000 | 16,125,000 | 214 | 1134 | 0.685751894 | INPP4B |
| 17 | 16,050,000 | 16,200,000 | 215 | 978 | 0.980105224 | INPP4B |
| 17 | 16,125,000 | 16,275,000 | 216 | 1199 | 1.120801693 | |
| 17 | 16,200,000 | 16,350,000 | 217 | 1123 | 0.119493173 | IL15 |
| 17 | 16,275,000 | 16,425,000 | 218 | 801 | -0.632285643 | IL15 |
| 17 | 16,350,000 | 16,500,000 | 219 | 773 | 0.174750761 | IL15 |
| 17 | 16,425,000 | 16,575,000 | 220 | 1011 | 0.738598888 | |
| 17 | 16,500,000 | 16,650,000 | 221 | 1030 | 0.804847426 | |
| 17 | 16,575,000 | 16,725,000 | 222 | 847 | -0.299566953 | |
| 17 | 16,650,000 | 16,800,000 | 223 | 891 | -1.759878322 | |
| 17 | 16,725,000 | 16,875,000 | 224 | 984 | -3.850916301 | ZNF330 |
| 17 | 16,800,000 | 16,950,000 | 225 | 1000 | -4.262680858 | ZNF330 |
| 17 | 16,875,000 | 17,025,000 | 226 | 947 | -0.040845006 | |
| 17 | 16,950,000 | 17,100,000 | 227 | 906 | 0.964817803 | |
| 17 | 17,025,000 | 17,175,000 | 228 | 893 | 0.857434974 | |
| 17 | 17,100,000 | 17,250,000 | 229 | 689 | 0.102176915 | |
| 17 | 17,175,000 | 17,325,000 | 230 | 621 | -0.625933824 | |
| 17 | 17,250,000 | 17,400,000 | 231 | 973 | -2.066019589 | TBC1D9 |
| 17 | 17,325,000 | 17,475,000 | 232 | 1331 | -0.3416585 | TBC1D9,UCP1 |
| 17 | 17,400,000 | 17,550,000 | 233 | 1046 | 0.720762821 | ELMOD2,MGAT4D,TBC1D9,UCP1 |
| 17 | 17,475,000 | 17,625,000 | 234 | 559 | 1.086509557 | CLGN,ELMOD2,MGAT4D |
| 17 | 17,550,000 | 17,700,000 | 235 | 468 | 1.090537433 | CLGN,MGAT4D,SCOC |
| 17 | 17,625,000 | 17,775,000 | 236 | 585 | 0.823750726 | SCOC |
| 17 | 17,700,000 | 17,850,000 | 237 | 771 | 1.215103885 | |
| 17 | 17,775,000 | 17,925,000 | 238 | 633 | 1.161894248 | |
| 17 | 17,850,000 | 18,000,000 | 239 | 455 | -0.924702644 | |
| 17 | 17,925,000 | 18,075,000 | 240 | 746 | -0.661908621 | |
| 17 | 18,000,000 | 18,150,000 | 241 | 729 | -0.030333188 | MAML3 |
| 17 | 18,075,000 | 18,225,000 | 242 | 482 | 0.68089694 | MAML3 |
| 17 | 18,150,000 | 18,300,000 | 243 | 696 | 0.679771595 | MAML3 |
| 17 | 18,225,000 | 18,375,000 | 244 | 843 | 0.16052134 | MAML3,MGST2 |
| 17 | 18,300,000 | 18,450,000 | 245 | 935 | -0.555737537 | MAML3,MGST2 |
| 17 | 18,375,000 | 18,525,000 | 246 | 680 | -1.090564714 | SETD7 |
| 17 | 18,450,000 | 18,600,000 | 247 | 416 | -1.48469052 | RAB33B,SETD7 |
| 17 | 18,525,000 | 18,675,000 | 248 | 412 | -1.362963007 | NAA15,RAB33B |
| 17 | 18,600,000 | 18,750,000 | 249 | 308 | -0.656748089 | MGARP,NAA15,NDUFC1,THOC7 |
| 17 | 18,675,000 | 18,825,000 | 250 | 302 | -0.457532759 | ELF2,MGARP,NAA15,NDUFC1,THOC7,ENSBTAG00000 015811 |
| 17 | 18,750,000 | 18,900,000 | 251 | 315 | -0.408863172 | CCRN4L,ELF2,ENSBTAG00000015811 |
| 17 | 18,825,000 | 18,975,000 | 252 | 446 | -0.711518779 | CCRN4L,ELF2 |
| 17 | 18,900,000 | 19,050,000 | 253 | 594 | -0.046176028 | CCRN4L |
| 17 | 18,975,000 | 19,125,000 | 254 | 710 | 1.141905229 | |
| 17 | 19,050,000 | 19,200,000 | 255 | 997 | 0.998038781 | |
| 17 | 19,125,000 | 19,275,000 | 256 | 1233 | -0.737419864 | |
| 17 | 19,200,000 | 19,350,000 | 257 | 1042 | -1.599785829 | |
| 17 | 19,275,000 | 19,425,000 | 258 | 873 | -0.50118293 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 17 | 19,350,000 | 19,500,000 | 259 | 1050 | 0.303726472 | ENSBTAG00000034089 |
| 17 | 19,425,000 | 19,575,000 | 260 | 1439 | 0.72471737 | ENSBTAG00000034089 |
| 17 | 19,500,000 | 19,650,000 | 261 | 1448 | 1.059285934 | |
| 17 | 19,575,000 | 19,725,000 | 262 | 1053 | 1.419854109 | |
| 17 | 19,650,000 | 19,800,000 | 263 | 906 | 1.162899345 | SLC7A11 |
| 17 | 19,725,000 | 19,875,000 | 264 | 1013 | 0.977889531 | SLC7A11 |
| 17 | 19,800,000 | 19,950,000 | 265 | 745 | 0.685693562 | SLC7A11 |
| 17 | 19,875,000 | 20,025,000 | 266 | 578 | -1.227818977 | |
| 17 | 19,950,000 | 20,100,000 | 267 | 689 | -1.331252066 | |
| 17 | 20,025,000 | 20,175,000 | 268 | 995 | 0.564876959 | |
| 17 | 20,100,000 | 20,250,000 | 269 | 1529 | 1.220316374 | |
| 17 | 20,175,000 | 20,325,000 | 270 | 1473 | 1.357517441 | |
| 17 | 20,250,000 | 20,400,000 | 271 | 1377 | 0.775124311 | |
| 17 | 20,325,000 | 20,475,000 | 272 | 1281 | 0.391680947 | |
| 17 | 20,400,000 | 20,550,000 | 273 | 967 | 0.443966726 | |
| 17 | 20,475,000 | 20,625,000 | 274 | 668 | -1.069960564 | PCDH18 |
| 17 | 20,550,000 | 20,700,000 | 275 | 419 | -1.687162491 | PCDH18 |
| 17 | 20,625,000 | 20,775,000 | 276 | 441 | -1.666003153 | |
| 17 | 20,700,000 | 20,850,000 | 277 | 616 | -4.173864872 | |
| 17 | 20,775,000 | 20,925,000 | 278 | 800 | -2.939433393 | |
| 17 | 20,850,000 | 21,000,000 | 279 | 869 | -0.788941162 | |
| 17 | 20,925,000 | 21,075,000 | 280 | 856 | -0.052306997 | |
| 17 | 21,000,000 | 21,150,000 | 281 | 963 | 0.479994515 | |
| 17 | 21,075,000 | 21,225,000 | 282 | 711 | 0.439305547 | |
| 17 | 21,150,000 | 21,300,000 | 283 | 378 | 0.343803198 | |
| 17 | 21,225,000 | 21,375,000 | 284 | 349 | -0.320188338 | |
| 17 | 21,300,000 | 21,450,000 | 285 | 427 | -1.468782727 | |
| 17 | 21,375,000 | 21,525,000 | 286 | 863 | -0.688742472 | |
| 17 | 21,450,000 | 21,600,000 | 287 | 1338 | 0.161309389 | |
| 17 | 21,525,000 | 21,675,000 | 288 | 1310 | 0.797475046 | |
| 17 | 21,600,000 | 21,750,000 | 289 | 1181 | 0.835969724 | |
| 17 | 21,675,000 | 21,825,000 | 290 | 1454 | 0.595484476 | |
| 17 | 21,750,000 | 21,900,000 | 291 | 1416 | -0.216351595 | |
| 17 | 21,825,000 | 21,975,000 | 292 | 1479 | -0.3470782 | |
| 17 | 21,900,000 | 22,050,000 | 293 | 1648 | -0.815807098 | |
| 17 | 21,975,000 | 22,125,000 | 294 | 1297 | -2.541507783 | |
| 17 | 22,050,000 | 22,200,000 | 295 | 744 | -3.272824381 | |
| 17 | 22,125,000 | 22,275,000 | 296 | 346 | -2.307263569 | |
| 17 | 22,200,000 | 22,350,000 | 297 | 518 | -4.595071367 | |
| 17 | 22,275,000 | 22,425,000 | 298 | 966 | -5.768527142 | |
| 17 | 22,350,000 | 22,500,000 | 299 | 798 | -4.806330143 | |
| 17 | 22,425,000 | 22,575,000 | 300 | 667 | -0.264997897 | |
| 17 | 22,500,000 | 22,650,000 | 301 | 840 | 0.184697792 | |
| 17 | 22,575,000 | 22,725,000 | 302 | 735 | 0.144230771 | |
| 17 | 22,650,000 | 22,800,000 | 303 | 814 | 0.781200832 | |
| 17 | 22,725,000 | 22,875,000 | 304 | 687 | 0.684835485 | |
| 17 | 22,800,000 | 22,950,000 | 305 | 603 | -0.156321026 | |
| 17 | 22,875,000 | 23,025,000 | 306 | 814 | -0.15898748 | |
| 17 | 22,950,000 | 23,100,000 | 307 | 934 | -0.555286203 | |
| 17 | 23,025,000 | 23,175,000 | 308 | 1080 | -2.235118609 | |
| 17 | 23,100,000 | 23,250,000 | 309 | 993 | -2.05750647 | |
| 17 | 23,175,000 | 23,325,000 | 310 | 855 | -0.393608787 | |
| 17 | 23,250,000 | 23,400,000 | 311 | 1265 | -0.118897845 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 17 | 23,325,000 | 23,475,000 | 312 | 1698 | -0.693355574 | |
| 17 | 23,400,000 | 23,550,000 | 313 | 1776 | -0.756604468 | ENSBTAG00000033967 |
| 17 | 23,475,000 | 23,625,000 | 314 | 1789 | -0.304142863 | ENSBTAG00000033967 |
| 17 | 23,550,000 | 23,700,000 | 315 | 1602 | -0.303116994 | |
| 17 | 23,625,000 | 23,775,000 | 316 | 1183 | 0.49436803 | |
| 17 | 23,700,000 | 23,850,000 | 317 | 1219 | 1.160213243 | |
| 17 | 23,775,000 | 23,925,000 | 318 | 1268 | 0.939169228 | |
| 17 | 23,850,000 | 24,000,000 | 319 | 1003 | 0.835499276 | |
| 17 | 23,925,000 | 24,075,000 | 320 | 927 | 0.80612471 | |
| 17 | 24,000,000 | 24,150,000 | 321 | 921 | 0.530158387 | |
| 17 | 24,075,000 | 24,225,000 | 322 | 946 | 0.715401308 | |
| 17 | 24,150,000 | 24,300,000 | 323 | 1098 | 0.870614254 | |
| 17 | 24,225,000 | 24,375,000 | 324 | 1064 | 0.047373685 | |
| 17 | 24,300,000 | 24,450,000 | 325 | 742 | -1.541508289 | |
| 17 | 24,375,000 | 24,525,000 | 326 | 830 | -0.805519992 | ENSBTAG00000009722 |
| 17 | 24,450,000 | 24,600,000 | 327 | 1085 | 0.314945016 | ENSBTAG00000009722 |
| 17 | 24,525,000 | 24,675,000 | 328 | 1018 | 1.060769121 | |
| 17 | 24,600,000 | 24,750,000 | 329 | 1000 | 0.550408108 | |
| 17 | 24,675,000 | 24,825,000 | 330 | 1040 | -0.395219833 | |
| 17 | 24,750,000 | 24,900,000 | 331 | 1276 | 0.397828303 | |
| 17 | 24,825,000 | 24,975,000 | 332 | 1469 | 0.46015886 | |
| 17 | 24,900,000 | 25,050,000 | 333 | 1057 | -0.625785169 | ENSBTAG00000035012 |
| 17 | 24,975,000 | 25,125,000 | 334 | 602 | -1.354744205 | PRAME,ENSBTAG00000035012,ENSBTAG00000040370 |
| 17 | 25,050,000 | 25,200,000 | 335 | 706 | -1.265498323 | PRAME,ENSBTAG00000040370 |
| 17 | 25,125,000 | 25,275,000 | 336 | 1460 | 0.721411608 | |
| 17 | 25,200,000 | 25,350,000 | 337 | 1849 | 0.791248107 | |
| 17 | 25,275,000 | 25,425,000 | 338 | 1622 | 0.889640219 | |
| 17 | 25,350,000 | 25,500,000 | 339 | 1200 | 0.799536237 | PCDH10 |
| 17 | 25,425,000 | 25,575,000 | 340 | 1056 | 0.850130957 | PCDH10 |
| 17 | 25,500,000 | 25,650,000 | 341 | 1403 | 0.898560885 | |
| 17 | 25,575,000 | 25,725,000 | 342 | 1706 | -0.32106017 | |
| 17 | 25,650,000 | 25,800,000 | 343 | 1762 | -0.662806115 | |
| 17 | 25,725,000 | 25,875,000 | 344 | 1467 | 0.555893876 | |
| 17 | 25,800,000 | 25,950,000 | 345 | 1018 | 0.759745318 | |
| 17 | 25,875,000 | 26,025,000 | 346 | 748 | -0.753228005 | |
| 17 | 25,950,000 | 26,100,000 | 347 | 959 | -0.092921754 | |
| 17 | 26,025,000 | 26,175,000 | 348 | 1444 | -0.529876252 | |
| 17 | 26,100,000 | 26,250,000 | 349 | 1574 | -1.16465821 | |
| 17 | 26,175,000 | 26,325,000 | 350 | 1339 | -0.248046966 | |
| 17 | 26,250,000 | 26,400,000 | 351 | 1034 | 0.393994339 | |
| 17 | 26,325,000 | 26,475,000 | 352 | 1119 | -0.389434573 | |
| 17 | 26,400,000 | 26,550,000 | 353 | 1210 | 0.302931023 | |
| 17 | 26,475,000 | 26,625,000 | 354 | 1205 | 0.762612271 | |
| 17 | 26,550,000 | 26,700,000 | 355 | 1476 | 0.490411758 | |
| 17 | 26,625,000 | 26,775,000 | 356 | 1555 | 0.299453922 | |
| 17 | 26,700,000 | 26,850,000 | 357 | 1342 | 0.259177645 | |
| 17 | 26,775,000 | 26,925,000 | 358 | 1260 | 0.473140349 | |
| 17 | 26,850,000 | 27,000,000 | 359 | 1544 | -0.215725487 | |
| 17 | 26,925,000 | 27,075,000 | 360 | 1724 | -0.409375561 | |
| 17 | 27,000,000 | 27,150,000 | 361 | 1660 | 0.116824221 | |
| 17 | 27,075,000 | 27,225,000 | 362 | 1444 | 0.658322059 | |
| 17 | 27,150,000 | 27,300,000 | 363 | 1255 | 1.131797078 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 17 | 27,225,000 | 27,375,000 | 364 | 1116 | 1.266994892 | |
| 17 | 27,300,000 | 27,450,000 | 365 | 1083 | 1.20320276 | |
| 17 | 27,375,000 | 27,525,000 | 366 | 1541 | -1.004593328 | |
| 17 | 27,450,000 | 27,600,000 | 367 | 1734 | -0.951426891 | |
| 17 | 27,525,000 | 27,675,000 | 368 | 1373 | 0.968070444 | |
| 17 | 27,600,000 | 27,750,000 | 369 | 1454 | 0.393488844 | |
| 17 | 27,675,000 | 27,825,000 | 370 | 1696 | 0.180638804 | |
| 17 | 27,750,000 | 27,900,000 | 371 | 1560 | -0.737717383 | |
| 17 | 27,825,000 | 27,975,000 | 372 | 1197 | -1.126229134 | |
| 17 | 27,900,000 | 28,050,000 | 373 | 1153 | 0.640906023 | |
| 17 | 27,975,000 | 28,125,000 | 374 | 1130 | 0.394460817 | |
| 17 | 28,050,000 | 28,200,000 | 375 | 1019 | 0.131502046 | |
| 17 | 28,125,000 | 28,275,000 | 376 | 1551 | 0.475400282 | |
| 17 | 28,200,000 | 28,350,000 | 377 | 1772 | 0.045991399 | |
| 17 | 28,275,000 | 28,425,000 | 378 | 1399 | -1.286901277 | |
| 17 | 28,350,000 | 28,500,000 | 379 | 1249 | -1.975362345 | |
| 17 | 28,425,000 | 28,575,000 | 380 | 1179 | -0.667248838 | |
| 17 | 28,500,000 | 28,650,000 | 381 | 1193 | 0.126495435 | |
| 17 | 28,575,000 | 28,725,000 | 382 | 1212 | -0.566484168 | |
| 17 | 28,650,000 | 28,800,000 | 383 | 983 | -1.027969314 | |
| 17 | 28,725,000 | 28,875,000 | 384 | 1110 | 0.365253164 | |
| 17 | 28,800,000 | 28,950,000 | 385 | 1448 | -0.75543822 | |
| 17 | 28,875,000 | 29,025,000 | 386 | 1437 | 0.039496739 | |
| 17 | 28,950,000 | 29,100,000 | 387 | 1026 | 0.95556804 | |
| 17 | 29,025,000 | 29,175,000 | 388 | 973 | 0.945615924 | C4orf33 |
| 17 | 29,100,000 | 29,250,000 | 389 | 1169 | 1.26259345 | C4orf33,SCLT1 |
| 17 | 29,175,000 | 29,325,000 | 390 | 804 | 1.194142371 | SCLT1 |
| 17 | 29,250,000 | 29,400,000 | 391 | 519 | 0.591894832 | JADE1,SCLT1 |
| 17 | 29,325,000 | 29,475,000 | 392 | 439 | 0.139527792 | JADE1,SCLT1 |
| 17 | 29,400,000 | 29,550,000 | 393 | 451 | -0.648968877 | JADE1,ENSBTAG00000004743 |
| 17 | 29,475,000 | 29,625,000 | 394 | 597 | -0.354625198 | ENSBTAG00000004743 |
| 17 | 29,550,000 | 29,700,000 | 395 | 560 | -0.653363334 | |
| 17 | 29,625,000 | 29,775,000 | 396 | 393 | -1.285212898 | |
| 17 | 29,700,000 | 29,850,000 | 397 | 278 | -0.763193831 | COMMD6 |
| 17 | 29,775,000 | 29,925,000 | 398 | 368 | -0.522539572 | COMMD6,PGRMC2 |
| 17 | 29,850,000 | 30,000,000 | 399 | 460 | -0.928421135 | LARP1B,PGRMC2 |
| 17 | 29,925,000 | 30,075,000 | 400 | 389 | -1.761846775 | LARP1B |
| 17 | 30,000,000 | 30,150,000 | 401 | 419 | -0.998226408 | LARP1B,MFSD8,MGC165715 |
| 17 | 30,075,000 | 30,225,000 | 402 | 436 | -0.821415853 | MFSD8,MGC165715,PLK4 |
| 17 | 30,150,000 | 30,300,000 | 403 | 389 | -0.922987216 | HSPA4L,MFSD8,PLK4,SLC25A31 |
| 17 | 30,225,000 | 30,375,000 | 404 | 358 | -0.302337534 | HSPA4L,INTU,SLC25A31 |
| 17 | 30,300,000 | 30,450,000 | 405 | 653 | 0.063731454 | INTU,SLC25A31 |
| 17 | 30,375,000 | 30,525,000 | 406 | 866 | -0.459208853 | INTU |
| 17 | 30,450,000 | 30,600,000 | 407 | 677 | -1.296117764 | |
| 17 | 30,525,000 | 30,675,000 | 408 | 868 | 0.281149309 | ENSBTAG00000005435 |
| 17 | 30,600,000 | 30,750,000 | 409 | 777 | 0.94329236 | ENSBTAG00000005435 |
| 17 | 30,675,000 | 30,825,000 | 410 | 365 | 0.587762438 | |
| 17 | 30,750,000 | 30,900,000 | 411 | 383 | -0.151065507 | |
| 17 | 30,825,000 | 30,975,000 | 412 | 435 | -0.02058335 | |
| 17 | 30,900,000 | 31,050,000 | 413 | 688 | 0.236701576 | |
| 17 | 30,975,000 | 31,125,000 | 414 | 1195 | 0.297645423 | |
| 17 | 31,050,000 | 31,200,000 | 415 | 1276 | -0.070949128 | |
| 17 | 31,125,000 | 31,275,000 | 416 | 995 | -0.415402556 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------|
| 17 | 31,200,000 | 31,350,000 | 417 | 1022 | -0.906728961 | |
| 17 | 31,275,000 | 31,425,000 | 418 | 930 | -0.840393131 | |
| 17 | 31,350,000 | 31,500,000 | 419 | 966 | 0.067699571 | |
| 17 | 31,425,000 | 31,575,000 | 420 | 1205 | -1.345667193 | |
| 17 | 31,500,000 | 31,650,000 | 421 | 848 | -2.276027504 | |
| 17 | 31,575,000 | 31,725,000 | 422 | 517 | -1.388527244 | |
| 17 | 31,650,000 | 31,800,000 | 423 | 670 | 0.831099906 | |
| 17 | 31,725,000 | 31,875,000 | 424 | 635 | 0.941412504 | |
| 17 | 31,800,000 | 31,950,000 | 425 | 546 | -0.418443358 | |
| 17 | 31,875,000 | 32,025,000 | 426 | 904 | -0.932358155 | |
| 17 | 31,950,000 | 32,100,000 | 427 | 889 | -0.71689565 | |
| 17 | 32,025,000 | 32,175,000 | 428 | 731 | 0.354677289 | |
| 17 | 32,100,000 | 32,250,000 | 429 | 786 | -0.193120566 | |
| 17 | 32,175,000 | 32,325,000 | 430 | 647 | -0.261203777 | |
| 17 | 32,250,000 | 32,400,000 | 431 | 577 | 0.305663075 | |
| 17 | 32,325,000 | 32,475,000 | 432 | 538 | 0.281395194 | |
| 17 | 32,400,000 | 32,550,000 | 433 | 564 | 0.468120637 | |
| 17 | 32,475,000 | 32,625,000 | 434 | 832 | -0.652717012 | |
| 17 | 32,550,000 | 32,700,000 | 435 | 989 | -2.208097696 | |
| 17 | 32,625,000 | 32,775,000 | 436 | 824 | -1.974831765 | FAT4 |
| 17 | 32,700,000 | 32,850,000 | 437 | 924 | -0.94602942 | FAT4 |
| 17 | 32,775,000 | 32,925,000 | 438 | 1149 | -0.918587 | FAT4 |
| 17 | 32,850,000 | 33,000,000 | 439 | 1473 | -0.171942318 | FAT4 |
| 17 | 32,925,000 | 33,075,000 | 440 | 1583 | 0.687056984 | |
| 17 | 33,000,000 | 33,150,000 | 441 | 1391 | 0.865385686 | |
| 17 | 33,075,000 | 33,225,000 | 442 | 1578 | 0.832140853 | |
| 17 | 33,150,000 | 33,300,000 | 443 | 1641 | 0.723289346 | |
| 17 | 33,225,000 | 33,375,000 | 444 | 1758 | 1.038816789 | |
| 17 | 33,300,000 | 33,450,000 | 445 | 1494 | 0.984417283 | |
| 17 | 33,375,000 | 33,525,000 | 446 | 847 | 0.615585313 | ANKRD50 |
| 17 | 33,450,000 | 33,600,000 | 447 | 751 | 0.555771512 | ANKRD50 |
| 17 | 33,525,000 | 33,675,000 | 448 | 791 | 0.017671889 | ANKRD50 |
| 17 | 33,600,000 | 33,750,000 | 449 | 1062 | 0.440101308 | |
| 17 | 33,675,000 | 33,825,000 | 450 | 1048 | 0.371883599 | |
| 17 | 33,750,000 | 33,900,000 | 451 | 1289 | -1.022497522 | |
| 17 | 33,825,000 | 33,975,000 | 452 | 1501 | -1.01738608 | |
| 17 | 33,900,000 | 34,050,000 | 453 | 1435 | -0.411591635 | |
| 17 | 33,975,000 | 34,125,000 | 454 | 1324 | -0.282247527 | |
| 17 | 34,050,000 | 34,200,000 | 455 | 1103 | -0.590410966 | |
| 17 | 34,125,000 | 34,275,000 | 456 | 1094 | -0.521721332 | |
| 17 | 34,200,000 | 34,350,000 | 457 | 1280 | -0.727575356 | |
| 17 | 34,275,000 | 34,425,000 | 458 | 1286 | -0.914606058 | |
| 17 | 34,350,000 | 34,500,000 | 459 | 901 | -0.704524288 | |
| 17 | 34,425,000 | 34,575,000 | 460 | 944 | -0.807568206 | |
| 17 | 34,500,000 | 34,650,000 | 461 | 884 | -0.754730411 | |
| 17 | 34,575,000 | 34,725,000 | 462 | 649 | -0.059766586 | |
| 17 | 34,650,000 | 34,800,000 | 463 | 768 | 0.388945857 | SPRY1 |
| 17 | 34,725,000 | 34,875,000 | 464 | 736 | 0.314954228 | SPRY1 |
| 17 | 34,800,000 | 34,950,000 | 465 | 548 | 0.455562897 | SPATA5 |
| 17 | 34,875,000 | 35,025,000 | 466 | 480 | 0.539127047 | SPATA5 |
| 17 | 34,950,000 | 35,100,000 | 467 | 519 | 0.250038254 | SPATA5 |
| 17 | 35,025,000 | 35,175,000 | 468 | 584 | 0.335780854 | NUDT6,SPATA5 |
| 17 | 35,100,000 | 35,250,000 | 469 | 487 | 0.155760373 | FGF2,NUDT6,SPATA5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 17 | 35,175,000 | 35,325,000 | 470 | 514 | 0.525850343 | FGF2,NUDT6 |
| 17 | 35,250,000 | 35,400,000 | 471 | 576 | 0.066456654 | BBS12,CETN4,FGF2 |
| 17 | 35,325,000 | 35,475,000 | 472 | 501 | -0.866365403 | BBS12,CETN4,IL21 |
| 17 | 35,400,000 | 35,550,000 | 473 | 353 | -1.218314712 | IL21 |
| 17 | 35,475,000 | 35,625,000 | 474 | 278 | -2.74204102 | IL2 |
| 17 | 35,550,000 | 35,700,000 | 475 | 280 | -0.926938062 | IL2 |
| 17 | 35,625,000 | 35,775,000 | 476 | 428 | 0.122618301 | ENSBTAG00000046302 |
| 17 | 35,700,000 | 35,850,000 | 477 | 322 | 0.284637059 | ENSBTAG00000046302 |
| 17 | 35,775,000 | 35,925,000 | 478 | 82 | -0.352995774 | ENSBTAG00000045738,ENSBTAG00000045938 |
| 17 | 35,850,000 | 36,000,000 | 479 | 632 | 0.459191002 | ENSBTAG00000045738,ENSBTAG00000045938 |
| 17 | 35,925,000 | 36,075,000 | 480 | 981 | 0.395717913 | ADAD1,ENSBTAG00000035606 |
| 17 | 36,000,000 | 36,150,000 | 481 | 482 | -0.346299078 | ADAD1,ENSBTAG00000035606 |
| 17 | 36,075,000 | 36,225,000 | 482 | 224 | -0.180227294 | ADAD1 |
| 17 | 36,150,000 | 36,300,000 | 483 | 261 | 0.941247701 | |
| 17 | 36,225,000 | 36,375,000 | 484 | 415 | 1.155422107 | |
| 17 | 36,300,000 | 36,450,000 | 485 | 687 | 0.194449042 | |
| 17 | 36,375,000 | 36,525,000 | 486 | 1057 | -1.204796566 | |
| 17 | 36,450,000 | 36,600,000 | 487 | 1007 | -1.723921271 | TRPC3 |
| 17 | 36,525,000 | 36,675,000 | 488 | 1009 | -0.796651641 | TRPC3 |
| 17 | 36,600,000 | 36,750,000 | 489 | 1477 | -0.365462469 | TRPC3 |
| 17 | 36,675,000 | 36,825,000 | 490 | 1328 | -1.716379206 | |
| 17 | 36,750,000 | 36,900,000 | 491 | 897 | -2.620973666 | |
| 17 | 36,825,000 | 36,975,000 | 492 | 1250 | -2.632280493 | |
| 17 | 36,900,000 | 37,050,000 | 493 | 1422 | -3.519320724 | |
| 17 | 36,975,000 | 37,125,000 | 494 | 1487 | -3.956024078 | |
| 17 | 37,050,000 | 37,200,000 | 495 | 1455 | -1.91791008 | |
| 17 | 37,125,000 | 37,275,000 | 496 | 1145 | 0.603722277 | |
| 17 | 37,200,000 | 37,350,000 | 497 | 1099 | 1.131156344 | |
| 17 | 37,275,000 | 37,425,000 | 498 | 1237 | -0.050709206 | ENSBTAG00000046833 |
| 17 | 37,350,000 | 37,500,000 | 499 | 1109 | -0.688417956 | ENSBTAG00000046833 |
| 17 | 37,425,000 | 37,575,000 | 500 | 611 | -0.156345649 | |
| 17 | 37,500,000 | 37,650,000 | 501 | 764 | 0.290876867 | |
| 17 | 37,575,000 | 37,725,000 | 502 | 1087 | 0.610448673 | |
| 17 | 37,650,000 | 37,800,000 | 503 | 893 | 0.552034979 | |
| 17 | 37,725,000 | 37,875,000 | 504 | 563 | -0.078839334 | ENSBTAG00000047595 |
| 17 | 37,800,000 | 37,950,000 | 505 | 627 | 0.475217246 | ENSBTAG00000047595 |
| 17 | 37,875,000 | 38,025,000 | 506 | 870 | 0.687138048 | ENSBTAG00000047595 |
| 17 | 37,950,000 | 38,100,000 | 507 | 1179 | 0.325578947 | ENSBTAG00000047595 |
| 17 | 38,025,000 | 38,175,000 | 508 | 1235 | -1.340539541 | ENSBTAG00000047595 |
| 17 | 38,100,000 | 38,250,000 | 509 | 1263 | -2.235023613 | |
| 17 | 38,175,000 | 38,325,000 | 510 | 1262 | -0.882946986 | |
| 17 | 38,250,000 | 38,400,000 | 511 | 1440 | -0.081157535 | |
| 17 | 38,325,000 | 38,475,000 | 512 | 1410 | -0.253246928 | |
| 17 | 38,400,000 | 38,550,000 | 513 | 1151 | 0.362710978 | |
| 17 | 38,475,000 | 38,625,000 | 514 | 1740 | 1.259265478 | |
| 17 | 38,550,000 | 38,700,000 | 515 | 2010 | 1.310743927 | |
| 17 | 38,625,000 | 38,775,000 | 516 | 1366 | 1.156387727 | |
| 17 | 38,700,000 | 38,850,000 | 517 | 1213 | 0.448176808 | |
| 17 | 38,775,000 | 38,925,000 | 518 | 1217 | 0.145830127 | |
| 17 | 38,850,000 | 39,000,000 | 519 | 1063 | 0.582700275 | |
| 17 | 38,925,000 | 39,075,000 | 520 | 1254 | -1.021452116 | |
| 17 | 39,000,000 | 39,150,000 | 521 | 931 | -2.988364985 | |
| 17 | 39,075,000 | 39,225,000 | 522 | 502 | -3.517171222 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 17 | 39,150,000 | 39,300,000 | 523 | 429 | -2.98664832 | |
| 17 | 39,225,000 | 39,375,000 | 524 | 373 | -2.45247753 | |
| 17 | 39,300,000 | 39,450,000 | 525 | 394 | -1.840987501 | |
| 17 | 39,375,000 | 39,525,000 | 526 | 480 | -1.751249472 | |
| 17 | 39,450,000 | 39,600,000 | 527 | 708 | -0.786714996 | |
| 17 | 39,525,000 | 39,675,000 | 528 | 873 | -0.088983342 | |
| 17 | 39,600,000 | 39,750,000 | 529 | 917 | 0.601411609 | |
| 17 | 39,675,000 | 39,825,000 | 530 | 922 | 0.787569752 | |
| 17 | 39,750,000 | 39,900,000 | 531 | 912 | 0.598462919 | ULBP3 |
| 17 | 39,825,000 | 39,975,000 | 532 | 1278 | 1.128811755 | ULBP3 |
| 17 | 39,900,000 | 40,050,000 | 533 | 1295 | 0.751164106 | |
| 17 | 39,975,000 | 40,125,000 | 534 | 1214 | -0.931729869 | |
| 17 | 40,050,000 | 40,200,000 | 535 | 1303 | -0.680344915 | |
| 17 | 40,125,000 | 40,275,000 | 536 | 1266 | -0.25963237 | |
| 17 | 40,200,000 | 40,350,000 | 537 | 1232 | 0.195364935 | |
| 17 | 40,275,000 | 40,425,000 | 538 | 1388 | 0.787398987 | |
| 17 | 40,350,000 | 40,500,000 | 539 | 1477 | 0.935414554 | RAPGEF2 |
| 17 | 40,425,000 | 40,575,000 | 540 | 1232 | 0.02445681 | RAPGEF2 |
| 17 | 40,500,000 | 40,650,000 | 541 | 1035 | -0.566189079 | RAPGEF2 |
| 17 | 40,575,000 | 40,725,000 | 542 | 1112 | -0.47617108 | RAPGEF2 |
| 17 | 40,650,000 | 40,800,000 | 543 | 1052 | -0.180008468 | |
| 17 | 40,725,000 | 40,875,000 | 544 | 985 | 0.51862699 | TNIP3 |
| 17 | 40,800,000 | 40,950,000 | 545 | 1307 | 0.768735361 | C17H4orf45,TNIP3 |
| 17 | 40,875,000 | 41,025,000 | 546 | 1428 | 1.172092886 | C17H4orf45 |
| 17 | 40,950,000 | 41,100,000 | 547 | 1355 | 0.999233265 | C17H4orf45, FNIP2 |
| 17 | 41,025,000 | 41,175,000 | 548 | 1106 | 0.366450211 | C17H4orf45, FNIP2 |
| 17 | 41,100,000 | 41,250,000 | 549 | 1087 | 0.605522035 | FNIP2, PPID |
| 17 | 41,175,000 | 41,325,000 | 550 | 1303 | 0.562130344 | C17H4orf46, ETFDH, PPID, RXFP1 |
| 17 | 41,250,000 | 41,400,000 | 551 | 1519 | -0.19226855 | C17H4orf46, ETFDH, PPID, RXFP1 |
| 17 | 41,325,000 | 41,475,000 | 552 | 1703 | -1.194719087 | RXFP1 |
| 17 | 41,400,000 | 41,550,000 | 553 | 1936 | -0.726205129 | RXFP1 |
| 17 | 41,475,000 | 41,625,000 | 554 | 1962 | 0.131034697 | |
| 17 | 41,550,000 | 41,700,000 | 555 | 1756 | 0.994041838 | TMEM144 |
| 17 | 41,625,000 | 41,775,000 | 556 | 1788 | 1.436176229 | FAM198B, TMEM144 |
| 17 | 41,700,000 | 41,850,000 | 557 | 1589 | 1.408454478 | FAM198B, TMEM144 |
| 17 | 41,775,000 | 41,925,000 | 558 | 1309 | 1.126407015 | FAM198B |
| 17 | 41,850,000 | 42,000,000 | 559 | 1228 | 0.685343409 | |
| 17 | 41,925,000 | 42,075,000 | 560 | 1066 | -0.420574208 | |
| 17 | 42,000,000 | 42,150,000 | 561 | 1174 | -0.384002568 | |
| 17 | 42,075,000 | 42,225,000 | 562 | 1306 | 0.4658724 | |
| 17 | 42,150,000 | 42,300,000 | 563 | 1218 | 0.514428926 | |
| 17 | 42,225,000 | 42,375,000 | 564 | 973 | 0.04793614 | |
| 17 | 42,300,000 | 42,450,000 | 565 | 747 | -0.260417873 | |
| 17 | 42,375,000 | 42,525,000 | 566 | 739 | -0.44397821 | |
| 17 | 42,450,000 | 42,600,000 | 567 | 821 | -0.769383632 | |
| 17 | 42,525,000 | 42,675,000 | 568 | 998 | -0.059987437 | |
| 17 | 42,600,000 | 42,750,000 | 569 | 1041 | 0.73151838 | |
| 17 | 42,675,000 | 42,825,000 | 570 | 1079 | 0.78876192 | GRIA2 |
| 17 | 42,750,000 | 42,900,000 | 571 | 866 | 0.37503954 | GRIA2 |
| 17 | 42,825,000 | 42,975,000 | 572 | 837 | -2.044846574 | GRIA2 |
| 17 | 42,900,000 | 43,050,000 | 573 | 929 | -2.22738064 | GLRB, GRIA2 |
| 17 | 42,975,000 | 43,125,000 | 574 | 1039 | 0.563220173 | GLRB |
| 17 | 43,050,000 | 43,200,000 | 575 | 947 | 0.814080124 | GLRB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 43,125,000 | 43,275,000 | 576 | 697 | 0.661021544 | GLRB |
| 17 | 43,200,000 | 43,350,000 | 577 | 763 | -0.02562016 | GLRB,PDGFC |
| 17 | 43,275,000 | 43,425,000 | 578 | 957 | -0.833219313 | PDGFC |
| 17 | 43,350,000 | 43,500,000 | 579 | 864 | -0.722808026 | PDGFC |
| 17 | 43,425,000 | 43,575,000 | 580 | 482 | -0.151556525 | PDGFC |
| 17 | 43,500,000 | 43,650,000 | 581 | 449 | 0.127305864 | |
| 17 | 43,575,000 | 43,725,000 | 582 | 537 | 0.111649492 | |
| 17 | 43,650,000 | 43,800,000 | 583 | 867 | 0.836741295 | |
| 17 | 43,725,000 | 43,875,000 | 584 | 1159 | 0.668421634 | |
| 17 | 43,800,000 | 43,950,000 | 585 | 923 | 0.176998614 | |
| 17 | 43,875,000 | 44,025,000 | 586 | 499 | -0.061966234 | |
| 17 | 43,950,000 | 44,100,000 | 587 | 378 | 0.035316011 | |
| 17 | 44,025,000 | 44,175,000 | 588 | 419 | -0.630650402 | |
| 17 | 44,100,000 | 44,250,000 | 589 | 544 | -2.237790963 | |
| 17 | 44,175,000 | 44,325,000 | 590 | 1076 | -0.802232953 | |
| 17 | 44,250,000 | 44,400,000 | 591 | 987 | -0.503601176 | CTSO,TDO2 |
| 17 | 44,325,000 | 44,475,000 | 592 | 477 | -0.63887285 | ASIC5,CTSO,TDO2 |
| 17 | 44,400,000 | 44,550,000 | 593 | 735 | 0.804374585 | ASIC5,GUCY1B1 |
| 17 | 44,475,000 | 44,625,000 | 594 | 916 | 0.634509284 | ASIC5,GUCY1A1,GUCY1B1 |
| 17 | 44,550,000 | 44,700,000 | 595 | 725 | 0.302134797 | GUCY1A1,GUCY1B1 |
| 17 | 44,625,000 | 44,775,000 | 596 | 860 | 0.832278329 | GUCY1A1 |
| 17 | 44,700,000 | 44,850,000 | 597 | 988 | 0.601547896 | |
| 17 | 44,775,000 | 44,925,000 | 598 | 803 | -1.212846053 | |
| 17 | 44,850,000 | 45,000,000 | 599 | 584 | -2.11002185 | ZNF605 |
| 17 | 44,925,000 | 45,075,000 | 600 | 392 | -2.741073202 | ZNF605,ENSBTAG00000013001 |
| 17 | 45,000,000 | 45,150,000 | 601 | 503 | -7.699230794 | ZNF140,ZNF891,ENSBTAG00000013001 |
| 17 | 45,075,000 | 45,225,000 | 602 | 755 | -2.866733924 | ZNF10,ZNF140,ZNF268,ZNF891 |
| 17 | 45,150,000 | 45,300,000 | 603 | 872 | 1.012813459 | ANHX,MBD3L1,ZNF10,ZNF268,ZNF891 |
| 17 | 45,225,000 | 45,375,000 | 604 | 721 | 0.938971672 | ANHX,MBD3L1 |
| 17 | 45,300,000 | 45,450,000 | 605 | 497 | 0.702352964 | CHFR,GOLGA3 |
| 17 | 45,375,000 | 45,525,000 | 606 | 432 | 0.706747885 | ANKLE2,CHFR,GOLGA3,PGAM5,POLE,PXMP2 |
| 17 | 45,450,000 | 45,600,000 | 607 | 484 | 0.235519785 | ANKLE2,GOLGA3,P2RX2,PGAM5,POLE,PXMP2 |
| 17 | 45,525,000 | 45,675,000 | 608 | 469 | -0.979733701 | FBRSL1,P2RX2,POLE |
| 17 | 45,600,000 | 45,750,000 | 609 | 511 | -0.720887927 | FBRSL1 |
| 17 | 45,675,000 | 45,825,000 | 610 | 971 | 0.519569545 | FBRSL1 |
| 17 | 45,750,000 | 45,900,000 | 611 | 1096 | 0.947820036 | WBSCR17 |
| 17 | 45,825,000 | 45,975,000 | 612 | 765 | 0.317907829 | WBSCR17 |
| 17 | 45,900,000 | 46,050,000 | 613 | 460 | -0.755845243 | DDX51,EP400,NOC4L,WBSCR17,ENSBTAG00000022084 |
| 17 | 45,975,000 | 46,125,000 | 614 | 299 | 0.666908775 | DDX51,EP400,NOC4L,ENSBTAG00000022084 |
| 17 | 46,050,000 | 46,200,000 | 615 | 545 | 1.047905113 | EP400,PUS1,ULK1 |
| 17 | 46,125,000 | 46,275,000 | 616 | 703 | 1.122991369 | EP400,MMP17,PUS1,SFSWAP,ULK1 |
| 17 | 46,200,000 | 46,350,000 | 617 | 710 | 1.055285527 | MMP17,SFSWAP |
| 17 | 46,275,000 | 46,425,000 | 618 | 946 | 1.036977539 | SFSWAP |
| 17 | 46,350,000 | 46,500,000 | 619 | 1276 | 1.070825818 | SFSWAP |
| 17 | 46,425,000 | 46,575,000 | 620 | 1364 | 0.587216831 | |
| 17 | 46,500,000 | 46,650,000 | 621 | 1407 | -0.127790078 | |
| 17 | 46,575,000 | 46,725,000 | 622 | 1614 | -0.488408202 | |
| 17 | 46,650,000 | 46,800,000 | 623 | 1577 | -0.389602781 | |
| 17 | 46,725,000 | 46,875,000 | 624 | 1301 | -1.253861106 | |
| 17 | 46,800,000 | 46,950,000 | 625 | 1234 | -1.030741333 | |
| 17 | 46,875,000 | 47,025,000 | 626 | 1166 | 0.502055311 | |
| 17 | 46,950,000 | 47,100,000 | 627 | 1198 | 0.515872888 | GPR133 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------------|
| 17 | 47,025,000 | 47,175,000 | 628 | 1412 | -0.708053636 | GPR133 |
| 17 | 47,100,000 | 47,250,000 | 629 | 993 | -1.706797383 | GPR133 |
| 17 | 47,175,000 | 47,325,000 | 630 | 632 | -1.114655928 | GPR133,STX2 |
| 17 | 47,250,000 | 47,400,000 | 631 | 1050 | 0.497778801 | STX2 |
| 17 | 47,325,000 | 47,475,000 | 632 | 1591 | 0.04626092 | STX2 |
| 17 | 47,400,000 | 47,550,000 | 633 | 1811 | -0.371812984 | |
| 17 | 47,475,000 | 47,625,000 | 634 | 1552 | -1.268304287 | |
| 17 | 47,550,000 | 47,700,000 | 635 | 931 | -1.079596543 | RIMBP2 |
| 17 | 47,625,000 | 47,775,000 | 636 | 678 | 0.933801678 | PIWIL1,RIMBP2 |
| 17 | 47,700,000 | 47,850,000 | 637 | 647 | 0.402709063 | PIWIL1,RIMBP2 |
| 17 | 47,775,000 | 47,925,000 | 638 | 634 | -0.524498681 | |
| 17 | 47,850,000 | 48,000,000 | 639 | 696 | -0.001543933 | FZD10 |
| 17 | 47,925,000 | 48,075,000 | 640 | 1209 | -0.021416662 | FZD10 |
| 17 | 48,000,000 | 48,150,000 | 641 | 1690 | -0.822626569 | |
| 17 | 48,075,000 | 48,225,000 | 642 | 979 | -1.230862185 | |
| 17 | 48,150,000 | 48,300,000 | 643 | 428 | -5.417703027 | |
| 17 | 48,225,000 | 48,375,000 | 644 | 522 | -3.978763332 | |
| 17 | 48,300,000 | 48,450,000 | 645 | 787 | 0.641408885 | |
| 17 | 48,375,000 | 48,525,000 | 646 | 928 | -0.566489529 | |
| 17 | 48,450,000 | 48,600,000 | 647 | 1057 | -2.415831983 | |
| 17 | 48,525,000 | 48,675,000 | 648 | 1385 | -1.152249956 | |
| 17 | 48,600,000 | 48,750,000 | 649 | 1764 | -2.616392468 | |
| 17 | 48,675,000 | 48,825,000 | 650 | 1900 | -3.148799409 | |
| 17 | 48,750,000 | 48,900,000 | 651 | 1349 | -1.406467795 | |
| 17 | 48,825,000 | 48,975,000 | 652 | 891 | -0.783910826 | |
| 17 | 48,900,000 | 49,050,000 | 653 | 959 | -0.897099544 | |
| 17 | 48,975,000 | 49,125,000 | 654 | 1161 | -0.770254278 | TMEM132D |
| 17 | 49,050,000 | 49,200,000 | 655 | 1387 | -0.472513523 | GLT1D1,TMEM132D |
| 17 | 49,125,000 | 49,275,000 | 656 | 1698 | 0.14022152 | GLT1D1,ENSBTAG00000046676 |
| 17 | 49,200,000 | 49,350,000 | 657 | 1433 | 0.788446291 | GLT1D1,SLC15A4,ENSBTAG00000046676 |
| 17 | 49,275,000 | 49,425,000 | 658 | 914 | 0.39642052 | GLT1D1,SLC15A4 |
| 17 | 49,350,000 | 49,500,000 | 659 | 1261 | 0.746941011 | SLC15A4,TMEM132C |
| 17 | 49,425,000 | 49,575,000 | 660 | 1566 | 0.218559557 | TMEM132C |
| 17 | 49,500,000 | 49,650,000 | 661 | 1500 | 0.004141437 | TMEM132C |
| 17 | 49,575,000 | 49,725,000 | 662 | 1460 | 0.721818915 | TMEM132C |
| 17 | 49,650,000 | 49,800,000 | 663 | 1566 | 1.103299379 | TMEM132C |
| 17 | 49,725,000 | 49,875,000 | 664 | 1458 | 0.968337053 | TMEM132C |
| 17 | 49,800,000 | 49,950,000 | 665 | 1248 | 0.39868838 | |
| 17 | 49,875,000 | 50,025,000 | 666 | 1548 | 0.379344203 | |
| 17 | 49,950,000 | 50,100,000 | 667 | 1513 | 0.582521546 | |
| 17 | 50,025,000 | 50,175,000 | 668 | 1207 | -0.059458157 | |
| 17 | 50,100,000 | 50,250,000 | 669 | 1238 | 0.11823194 | |
| 17 | 50,175,000 | 50,325,000 | 670 | 1162 | 0.91907809 | |
| 17 | 50,250,000 | 50,400,000 | 671 | 1101 | 0.883733005 | |
| 17 | 50,325,000 | 50,475,000 | 672 | 1133 | 1.082343299 | |
| 17 | 50,400,000 | 50,550,000 | 673 | 1206 | 0.403387235 | |
| 17 | 50,475,000 | 50,625,000 | 674 | 971 | 0.019780061 | |
| 17 | 50,550,000 | 50,700,000 | 675 | 616 | 0.959324316 | |
| 17 | 50,625,000 | 50,775,000 | 676 | 468 | 0.653933537 | ENSBTAG00000046439 |
| 17 | 50,700,000 | 50,850,000 | 677 | 241 | -5.376081622 | ENSBTAG00000046439 |
| 17 | 50,775,000 | 50,925,000 | 678 | 165 | -5.199315456 | |
| 17 | 50,850,000 | 51,000,000 | 679 | 343 | 0.284863589 | ENSBTAG00000046657 |
| 17 | 50,925,000 | 51,075,000 | 680 | 810 | 0.285576995 | ENSBTAG00000046657 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 17 | 51,000,000 | 51,150,000 | 681 | 866 | 0.221988752 | |
| 17 | 51,075,000 | 51,225,000 | 682 | 444 | 0.400953099 | ENSBTAG00000047597 |
| 17 | 51,150,000 | 51,300,000 | 683 | 385 | 1.188326723 | ENSBTAG00000033558,ENSBTAG00000047597 |
| 17 | 51,225,000 | 51,375,000 | 684 | 399 | 1.097052619 | HSFY2,PRAME,ENSBTAG00000033558 |
| 17 | 51,300,000 | 51,450,000 | 685 | 225 | -1.435707915 | HSFY2,PRAME |
| 17 | 51,375,000 | 51,525,000 | 686 | 355 | -2.178946772 | PRAME |
| 17 | 51,450,000 | 51,600,000 | 687 | 314 | -3.199476066 | ENSBTAG00000039769 |
| 17 | 51,525,000 | 51,675,000 | 688 | 293 | -1.37381423 | ENSBTAG00000034761,ENSBTAG00000039769 |
| 17 | 51,600,000 | 51,750,000 | 689 | 797 | -0.884067727 | ENSBTAG00000020532,ENSBTAG00000034761 |
| 17 | 51,675,000 | 51,825,000 | 690 | 1064 | -0.694558434 | ENSBTAG00000020532,ENSBTAG00000046986 |
| 17 | 51,750,000 | 51,900,000 | 691 | 572 | -0.112974703 | ENSBTAG00000033620,ENSBTAG00000046986 |
| 17 | 51,825,000 | 51,975,000 | 692 | 397 | 0.576658276 | ENSBTAG00000033620 |
| 17 | 51,900,000 | 52,050,000 | 693 | 419 | 0.288441497 | |
| 17 | 51,975,000 | 52,125,000 | 694 | 541 | 0.265747012 | |
| 17 | 52,050,000 | 52,200,000 | 695 | 853 | 0.469339889 | |
| 17 | 52,125,000 | 52,275,000 | 696 | 654 | 0.132538432 | |
| 17 | 52,200,000 | 52,350,000 | 697 | 601 | -1.519479992 | |
| 17 | 52,275,000 | 52,425,000 | 698 | 1082 | -0.858810417 | |
| 17 | 52,350,000 | 52,500,000 | 699 | 1318 | -0.746491924 | |
| 17 | 52,425,000 | 52,575,000 | 700 | 1211 | -0.763842186 | TMEM132B |
| 17 | 52,500,000 | 52,650,000 | 701 | 1050 | -0.68800122 | TMEM132B |
| 17 | 52,575,000 | 52,725,000 | 702 | 942 | -0.927239769 | TMEM132B |
| 17 | 52,650,000 | 52,800,000 | 703 | 1343 | -0.023753837 | TMEM132B |
| 17 | 52,725,000 | 52,875,000 | 704 | 1161 | 0.462463214 | TMEM132B |
| 17 | 52,800,000 | 52,950,000 | 705 | 719 | 0.523267512 | |
| 17 | 52,875,000 | 53,025,000 | 706 | 815 | -1.320961778 | AACS |
| 17 | 52,950,000 | 53,100,000 | 707 | 848 | -1.585072165 | AACS,BRI3BP,DHX37 |
| 17 | 53,025,000 | 53,175,000 | 708 | 723 | -1.505397226 | AACS,BRI3BP,DHX37,UBC |
| 17 | 53,100,000 | 53,250,000 | 709 | 847 | -0.811825264 | DHX37,SCARB1,UBC |
| 17 | 53,175,000 | 53,325,000 | 710 | 991 | 0.331419998 | SCARB1 |
| 17 | 53,250,000 | 53,400,000 | 711 | 952 | 0.440151662 | SCARB1 |
| 17 | 53,325,000 | 53,475,000 | 712 | 956 | 0.086301574 | |
| 17 | 53,400,000 | 53,550,000 | 713 | 842 | 0.24036267 | |
| 17 | 53,475,000 | 53,625,000 | 714 | 823 | 0.6341395 | NCOR2 |
| 17 | 53,550,000 | 53,700,000 | 715 | 814 | 0.581738852 | NCOR2 |
| 17 | 53,625,000 | 53,775,000 | 716 | 817 | -0.406110521 | FAM101A,NCOR2 |
| 17 | 53,700,000 | 53,850,000 | 717 | 933 | -0.793713307 | FAM101A,NCOR2 |
| 17 | 53,775,000 | 53,925,000 | 718 | 1194 | -0.268177002 | |
| 17 | 53,850,000 | 54,000,000 | 719 | 1203 | -0.53223771 | ZNF664 |
| 17 | 53,925,000 | 54,075,000 | 720 | 918 | -0.092056546 | CCDC92,DNAH10,ZNF664 |
| 17 | 54,000,000 | 54,150,000 | 721 | 889 | 0.302786841 | CCDC92,DNAH10 |
| 17 | 54,075,000 | 54,225,000 | 722 | 1183 | -1.192478987 | ATP6V0A2,DNAH10 |
| 17 | 54,150,000 | 54,300,000 | 723 | 1420 | -0.558438216 | ATP6V0A2,DNAH10,EIF2B1,GTF2H3,TCTN2 |
| 17 | 54,225,000 | 54,375,000 | 724 | 1214 | 0.851198256 | ATP6V0A2,DDX55,EIF2B1,GTF2H3,RILPL1,TCTN2,TME D2 |
| 17 | 54,300,000 | 54,450,000 | 725 | 827 | 1.262314477 | DDX55,EIF2B1,RILPL1,RILPL2,SNRNP35,TMED2 |
| 17 | 54,375,000 | 54,525,000 | 726 | 542 | 1.270831478 | RILPL1,RILPL2,SBNO1,SETD8,SNRNP35 |
| 17 | 54,450,000 | 54,600,000 | 727 | 507 | 0.426147434 | C12orf65,CDK2AP1,MPHOSPH9,RILPL2,SBNO1,SETD8 |
| 17 | 54,525,000 | 54,675,000 | 728 | 667 | 0.359030103 | C12orf65,CDK2AP1,MPHOSPH9,SBNO1 |
| 17 | 54,600,000 | 54,750,000 | 729 | 718 | 0.029247335 | MPHOSPH9,PITPNM2 |
| 17 | 54,675,000 | 54,825,000 | 730 | 679 | -1.066971335 | ARL6IP4,OGFOD2,PITPNM2 |
| 17 | 54,750,000 | 54,900,000 | 731 | 1043 | -1.384125525 | ABC9,ARL6IP4,OGFOD2,PITPNM2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 54,825,000 | 54,975,000 | 732 | 1101 | -0.601587312 | ABCB9,CCDC62,HIP1R |
| 17 | 54,900,000 | 55,050,000 | 733 | 880 | -0.034358529 | CCDC62,GPR81,HIP1R,ENSBTAG00000032433 |
| 17 | 54,975,000 | 55,125,000 | 734 | 940 | -0.847228534 | CCDC62,GPR81,KNTC1,ENSBTAG00000032433,ENSBT AG00000047904 |
| 17 | 55,050,000 | 55,200,000 | 735 | 676 | -1.587891838 | KNTC1,RSRC2,ZCCHC8,ENSBTAG00000047904 |
| 17 | 55,125,000 | 55,275,000 | 736 | 665 | -0.673142587 | CLIP1,KNTC1,RSRC2,ZCCHC8 |
| 17 | 55,200,000 | 55,350,000 | 737 | 967 | -1.80915791 | CLIP1,ZCCHC8 |
| 17 | 55,275,000 | 55,425,000 | 738 | 952 | -1.643374083 | B3GNT4,CLIP1,DIABLO,LRRC43,VPS33A |
| 17 | 55,350,000 | 55,500,000 | 739 | 798 | 0.315339196 | B3GNT4,CLIP1,DIABLO,LRRC43,MLXIP,VPS33A |
| 17 | 55,425,000 | 55,575,000 | 740 | 792 | 0.231621 | BCL7A,LRRC43,MLXIP |
| 17 | 55,500,000 | 55,650,000 | 741 | 902 | 0.704691155 | BCL7A,MLXIP,WDR66 |
| 17 | 55,575,000 | 55,725,000 | 742 | 808 | 0.887622996 | HPD,PSMD9,WDR66 |
| 17 | 55,650,000 | 55,800,000 | 743 | 565 | 0.545274116 | HPD,PSMD9,RHOF,SETD1B,TMEM120B,WDR66 |
| 17 | 55,725,000 | 55,875,000 | 744 | 463 | -0.079906914 | MORN3,ORAI1,RHOF,SETD1B,TMEM120B |
| 17 | 55,800,000 | 55,950,000 | 745 | 612 | 0.693194341 | KDM2B,MORN3,ORAI1,TMEM120B |
| 17 | 55,875,000 | 56,025,000 | 746 | 761 | 1.091607244 | KDM2B,RNF34 |
| 17 | 55,950,000 | 56,100,000 | 747 | 762 | 0.950626713 | ANAPC5,KDM2B,RNF34 |
| 17 | 56,025,000 | 56,175,000 | 748 | 675 | 0.145239775 | ANAPC5,CAMKK2,P2RX4,RNF34 |
| 17 | 56,100,000 | 56,250,000 | 749 | 509 | -1.36039235 | ANAPC5,CAMKK2,P2RX4,P2RX7 |
| 17 | 56,175,000 | 56,325,000 | 750 | 477 | -1.817316425 | IFT81,P2RX4,P2RX7 |
| 17 | 56,250,000 | 56,400,000 | 751 | 422 | -1.20808417 | IFT81,P2RX7 |
| 17 | 56,325,000 | 56,475,000 | 752 | 401 | -0.100135928 | ATP2A2,IFT81 |
| 17 | 56,400,000 | 56,550,000 | 753 | 403 | 1.090036183 | ANAPC7,ATP2A2,IFT81 |
| 17 | 56,475,000 | 56,625,000 | 754 | 363 | 1.329625665 | ANAPC7,ARPC3,ATP2A2,FAM216A,GPN3,VPS29 |
| 17 | 56,550,000 | 56,700,000 | 755 | 322 | 1.348835906 | ANAPC7,ARPC3,FAM216A,GPN3,PPTC7,RAD9B,VPS29 |
| 17 | 56,625,000 | 56,775,000 | 756 | 318 | 0.827541163 | HVCN1,PPTC7,RAD9B,TCTN1 |
| 17 | 56,700,000 | 56,850,000 | 757 | 293 | 0.178256558 | HVCN1,PPP1CC,PPTC7,TCTN1 |
| 17 | 56,775,000 | 56,925,000 | 758 | 419 | -0.748785634 | CCDC63,PPP1CC |
| 17 | 56,850,000 | 57,000,000 | 759 | 686 | -0.863641515 | CCDC63,MYL2 |
| 17 | 56,925,000 | 57,075,000 | 760 | 831 | -0.759921273 | CCDC63,CUX2,MYL2 |
| 17 | 57,000,000 | 57,150,000 | 761 | 1112 | 0.081749468 | CUX2 |
| 17 | 57,075,000 | 57,225,000 | 762 | 1181 | 0.464140681 | CUX2 |
| 17 | 57,150,000 | 57,300,000 | 763 | 1111 | 0.834150551 | CUX2 |
| 17 | 57,225,000 | 57,375,000 | 764 | 1206 | 0.89698244 | CUX2,FAM109A |
| 17 | 57,300,000 | 57,450,000 | 765 | 988 | 0.801281131 | ATXN2,CUX2,FAM109A,SH2B3 |
| 17 | 57,375,000 | 57,525,000 | 766 | 723 | 1.084367186 | ATXN2,SH2B3 |
| 17 | 57,450,000 | 57,600,000 | 767 | 820 | 0.966194505 | ATXN2,BRAP |
| 17 | 57,525,000 | 57,675,000 | 768 | 1049 | 0.412935843 | ACAD10,ATXN2,BRAP |
| 17 | 57,600,000 | 57,750,000 | 769 | 1124 | 0.342502154 | ACAD10 |
| 17 | 57,675,000 | 57,825,000 | 770 | 1159 | 1.008615137 | ACAD10,CIT |
| 17 | 57,750,000 | 57,900,000 | 771 | 1302 | 1.134913011 | CIT |
| 17 | 57,825,000 | 57,975,000 | 772 | 1295 | 1.149054684 | CIT |
| 17 | 57,900,000 | 58,050,000 | 773 | 1473 | 1.1809678 | CIT,PRKAB1 |
| 17 | 57,975,000 | 58,125,000 | 774 | 1704 | 1.255024077 | CCDC60,CIT,PRKAB1 |
| 17 | 58,050,000 | 58,200,000 | 775 | 1462 | 1.292594736 | CCDC60 |
| 17 | 58,125,000 | 58,275,000 | 776 | 1381 | 0.041148751 | CCDC60 |
| 17 | 58,200,000 | 58,350,000 | 777 | 1321 | -0.365592408 | |
| 17 | 58,275,000 | 58,425,000 | 778 | 1185 | -1.900134839 | HSPB8 |
| 17 | 58,350,000 | 58,500,000 | 779 | 1214 | -2.146032439 | HSPB8,SRRM4 |
| 17 | 58,425,000 | 58,575,000 | 780 | 1172 | 0.026210272 | SRRM4 |
| 17 | 58,500,000 | 58,650,000 | 781 | 1178 | 0.835786934 | |
| 17 | 58,575,000 | 58,725,000 | 782 | 1025 | -0.224122392 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 17 | 58,650,000 | 58,800,000 | 783 | 747 | -0.835929426 | |
| 17 | 58,725,000 | 58,875,000 | 784 | 760 | -0.254075237 | |
| 17 | 58,800,000 | 58,950,000 | 785 | 902 | -0.408131819 | |
| 17 | 58,875,000 | 59,025,000 | 786 | 1112 | -0.004423722 | |
| 17 | 58,950,000 | 59,100,000 | 787 | 953 | 0.575275473 | SUDS3 |
| 17 | 59,025,000 | 59,175,000 | 788 | 531 | 0.830035008 | SUDS3 |
| 17 | 59,100,000 | 59,250,000 | 789 | 343 | 0.268695596 | SUDS3,TAOK3 |
| 17 | 59,175,000 | 59,325,000 | 790 | 246 | -0.09602634 | TAOK3 |
| 17 | 59,250,000 | 59,400,000 | 791 | 555 | 0.18570848 | PEBP1,TAOK3,VSIG10 |
| 17 | 59,325,000 | 59,475,000 | 792 | 818 | 0.938492462 | PEBP1,RFC5,VSIG10,WSB2 |
| 17 | 59,400,000 | 59,550,000 | 793 | 794 | -0.167409876 | KSR2,RFC5,VSIG10,WSB2 |
| 17 | 59,475,000 | 59,625,000 | 794 | 1067 | -0.422183446 | KSR2 |
| 17 | 59,550,000 | 59,700,000 | 795 | 1386 | 0.476884937 | KSR2 |
| 17 | 59,625,000 | 59,775,000 | 796 | 1138 | 0.566818592 | KSR2 |
| 17 | 59,700,000 | 59,850,000 | 797 | 1103 | 0.918147731 | KSR2 |
| 17 | 59,775,000 | 59,925,000 | 798 | 1387 | 0.786625656 | KSR2 |
| 17 | 59,850,000 | 60,000,000 | 799 | 1488 | 0.630086847 | KSR2 |
| 17 | 59,925,000 | 60,075,000 | 800 | 1540 | 0.919438889 | NOS1 |
| 17 | 60,000,000 | 60,150,000 | 801 | 1445 | 1.09091288 | COX7B,NOS1,ENSBTAG00000046747 |
| 17 | 60,075,000 | 60,225,000 | 802 | 1216 | 1.209628386 | COX7B,FBXO21,NOS1,ENSBTAG00000046747 |
| 17 | 60,150,000 | 60,300,000 | 803 | 1088 | 1.133183334 | FBXO21,TESC |
| 17 | 60,225,000 | 60,375,000 | 804 | 1143 | 1.160045242 | FBXO21,FBXW8,TESC |
| 17 | 60,300,000 | 60,450,000 | 805 | 1067 | 1.181792566 | FBXW8,HRK,RNFT2,TESC |
| 17 | 60,375,000 | 60,525,000 | 806 | 808 | 1.120404965 | C12orf49,FBXW8,HRK,RNFT2 |
| 17 | 60,450,000 | 60,600,000 | 807 | 841 | 0.819916638 | C12orf49,RNFT2 |
| 17 | 60,525,000 | 60,675,000 | 808 | 1158 | 0.763101611 | |
| 17 | 60,600,000 | 60,750,000 | 809 | 1260 | 0.439792232 | |
| 17 | 60,675,000 | 60,825,000 | 810 | 966 | 0.502923851 | |
| 17 | 60,750,000 | 60,900,000 | 811 | 623 | 0.621050528 | |
| 17 | 60,825,000 | 60,975,000 | 812 | 583 | -0.329075011 | MED13L |
| 17 | 60,900,000 | 61,050,000 | 813 | 575 | 0.007304944 | MED13L |
| 17 | 60,975,000 | 61,125,000 | 814 | 446 | 0.962013956 | MED13L |
| 17 | 61,050,000 | 61,200,000 | 815 | 605 | 0.970057326 | MED13L |
| 17 | 61,125,000 | 61,275,000 | 816 | 912 | 0.515783696 | MED13L |
| 17 | 61,200,000 | 61,350,000 | 817 | 850 | 0.322508451 | |
| 17 | 61,275,000 | 61,425,000 | 818 | 693 | 0.537783415 | |
| 17 | 61,350,000 | 61,500,000 | 819 | 895 | 0.872008955 | |
| 17 | 61,425,000 | 61,575,000 | 820 | 1184 | 0.57181532 | |
| 17 | 61,500,000 | 61,650,000 | 821 | 1195 | 0.666572103 | |
| 17 | 61,575,000 | 61,725,000 | 822 | 1075 | 0.659039623 | |
| 17 | 61,650,000 | 61,800,000 | 823 | 983 | 0.441227521 | |
| 17 | 61,725,000 | 61,875,000 | 824 | 1121 | -0.189688937 | |
| 17 | 61,800,000 | 61,950,000 | 825 | 938 | -0.872104542 | |
| 17 | 61,875,000 | 62,025,000 | 826 | 731 | 0.376668856 | |
| 17 | 61,950,000 | 62,100,000 | 827 | 768 | 0.79151003 | |
| 17 | 62,025,000 | 62,175,000 | 828 | 763 | 0.192873584 | |
| 17 | 62,100,000 | 62,250,000 | 829 | 834 | -0.459205864 | |
| 17 | 62,175,000 | 62,325,000 | 830 | 643 | -0.458281269 | |
| 17 | 62,250,000 | 62,400,000 | 831 | 406 | 0.324919107 | TBX3 |
| 17 | 62,325,000 | 62,475,000 | 832 | 457 | -0.058272091 | TBX3 |
| 17 | 62,400,000 | 62,550,000 | 833 | 519 | 0.319455715 | TBX5 |
| 17 | 62,475,000 | 62,625,000 | 834 | 576 | 0.245257673 | TBX5 |
| 17 | 62,550,000 | 62,700,000 | 835 | 732 | 0.270870112 | TBX5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 62,625,000 | 62,775,000 | 836 | 922 | 1.095766613 | |
| 17 | 62,700,000 | 62,850,000 | 837 | 894 | 0.84379191 | |
| 17 | 62,775,000 | 62,925,000 | 838 | 1177 | 0.408282762 | RBM19 |
| 17 | 62,850,000 | 63,000,000 | 839 | 1794 | 0.778148818 | RBM19 |
| 17 | 62,925,000 | 63,075,000 | 840 | 1937 | 0.980379525 | RBM19 |
| 17 | 63,000,000 | 63,150,000 | 841 | 1716 | 0.894851567 | RBM19 |
| 17 | 63,075,000 | 63,225,000 | 842 | 1561 | 0.613541073 | |
| 17 | 63,150,000 | 63,300,000 | 843 | 1339 | 0.21803364 | LHX5,SDSL |
| 17 | 63,225,000 | 63,375,000 | 844 | 1205 | 0.059655058 | DTX1,LHX5,PLBD2,SDS,SDSL |
| 17 | 63,300,000 | 63,450,000 | 845 | 1206 | 0.289342459 | CCDC42B,DDX54,DTX1,PLBD2,RASAL1,SDS |
| 17 | 63,375,000 | 63,525,000 | 846 | 1300 | 0.737931818 | CCDC42B,DDX54,DTX1,IQCD,RASAL1,RITA1 |
| 17 | 63,450,000 | 63,600,000 | 847 | 1591 | 0.401471537 | DDX54,IQCD,RITA1,SLC8B1,TPCN1 |
| 17 | 63,525,000 | 63,675,000 | 848 | 1896 | 0.217535299 | OAS1Y,OAS1Z,OAS2,SLC8B1,TPCN1 |
| 17 | 63,600,000 | 63,750,000 | 849 | 1927 | 0.199030001 | OAS1Y,OAS1Z,OAS2,RPH3A |
| 17 | 63,675,000 | 63,825,000 | 850 | 1394 | -0.643484247 | OAS1Z,RPH3A |
| 17 | 63,750,000 | 63,900,000 | 851 | 873 | -0.886497509 | |
| 17 | 63,825,000 | 63,975,000 | 852 | 920 | 0.097448918 | |
| 17 | 63,900,000 | 64,050,000 | 853 | 1044 | 0.330442525 | PTPN11 |
| 17 | 63,975,000 | 64,125,000 | 854 | 674 | 0.721241357 | PTPN11,RPL6 |
| 17 | 64,050,000 | 64,200,000 | 855 | 491 | 0.186290353 | PTPN11,RPL6 |
| 17 | 64,125,000 | 64,275,000 | 856 | 516 | 0.335260049 | ENSBTAG00000010958,ENSBTAG00000046730 |
| 17 | 64,200,000 | 64,350,000 | 857 | 586 | 0.658215113 | TRAFD1,ENSBTAG00000008762,ENSBTAG00000010958,ENSBTAG00000046730 |
| 17 | 64,275,000 | 64,425,000 | 858 | 669 | 0.330962541 | ERP29,NAA25,TRAFD1,ENSBTAG00000008762,ENSBTAG00000046730 |
| 17 | 64,350,000 | 64,500,000 | 859 | 584 | 0.305510198 | ADAM1B,ERP29,NAA25,TMEM116 |
| 17 | 64,425,000 | 64,575,000 | 860 | 677 | 0.723714427 | ADAM1B,ALDH2,ERP29,MAPKAPK5,TMEM116 |
| 17 | 64,500,000 | 64,650,000 | 861 | 809 | 0.915068217 | ALDH2,CCDC64,MAPKAPK5 |
| 17 | 64,575,000 | 64,725,000 | 862 | 681 | 0.778012823 | ALDH2,CCDC64,RAB35 |
| 17 | 64,650,000 | 64,800,000 | 863 | 580 | 0.602872336 | CCDC64,GCN1L1,RAB35 |
| 17 | 64,725,000 | 64,875,000 | 864 | 673 | 0.874087552 | GCN1L1,PXN,RAB35,RPLP0 |
| 17 | 64,800,000 | 64,950,000 | 865 | 826 | 0.574465177 | GCN1L1,MSI1,PLA2G1B,PXN,RPLP0,SIRT4,ENSBTAG0000047084 |
| 17 | 64,875,000 | 65,025,000 | 866 | 736 | 0.146948331 | COX6A1,GATC,MSI1,PLA2G1B,SFRS9,SIRT4,TRIAP1,ENSBTAG00000047084 |
| 17 | 64,950,000 | 65,100,000 | 867 | 550 | -0.197165704 | COQ5,COX6A1,DYNLL1,GATC,RNF10,SFRS9,TRIAP1 |
| 17 | 65,025,000 | 65,175,000 | 868 | 590 | 0.536190181 | CABP1,COQ5,DYNLL1,POP5,RNF10 |
| 17 | 65,100,000 | 65,250,000 | 869 | 903 | 1.192468535 | ACADS,CABP1,MLEC,POP5,RNF10,UNC119B |
| 17 | 65,175,000 | 65,325,000 | 870 | 1030 | 0.912454198 | ACADS,MLEC,SPPL3,UNC119B |
| 17 | 65,250,000 | 65,400,000 | 871 | 800 | 0.182696522 | SPPL3 |
| 17 | 65,325,000 | 65,475,000 | 872 | 836 | -0.312591921 | C12orf43,HNF1A,OASL,ENSBTAG00000046887 |
| 17 | 65,400,000 | 65,550,000 | 873 | 935 | -0.323753029 | ANKRD13A,C12orf43,HNF1A,OASL,ENSBTAG00000032047,ENSBTAG00000046887 |
| 17 | 65,475,000 | 65,625,000 | 874 | 723 | -0.082957456 | ANKRD13A,GIT2,TCHP,ENSBTAG00000032047 |
| 17 | 65,550,000 | 65,700,000 | 875 | 733 | -0.088904309 | ANKRD13A,GIT2,GLTP,TCHP,TRPV4 |
| 17 | 65,625,000 | 65,775,000 | 876 | 878 | 0.526465839 | FAM222A,GLTP,TRPV4 |
| 17 | 65,700,000 | 65,850,000 | 877 | 1123 | -0.054359125 | FAM222A |
| 17 | 65,775,000 | 65,925,000 | 878 | 1413 | -0.226759134 | MMAB,MVK,UBE3B |
| 17 | 65,850,000 | 66,000,000 | 879 | 1342 | 0.339393276 | KCTD10,MMAB,MVK,MYO1H,UBE3B |
| 17 | 65,925,000 | 66,075,000 | 880 | 1324 | 0.325961778 | FOXN4,KCTD10,MYO1H,UBE3B |
| 17 | 66,000,000 | 66,150,000 | 881 | 1396 | 0.167684396 | ACACB,FOXN4,MYO1H |
| 17 | 66,075,000 | 66,225,000 | 882 | 1407 | 0.451389244 | ACACB,FOXN4,UNG |
| 17 | 66,150,000 | 66,300,000 | 883 | 1171 | 0.321387496 | ACACB,ALKBH2,SVOP,UNG,USP30 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 66,225,000 | 66,375,000 | 884 | 1213 | 0.273242687 | ALKBH2,DAO,SVOP,UNG,USP30 |
| 17 | 66,300,000 | 66,450,000 | 885 | 1132 | 0.610794004 | DAO,SSH1,SVOP |
| 17 | 66,375,000 | 66,525,000 | 886 | 727 | 0.688566128 | CORO1C,SSH1,ENSBTAG00000023431 |
| 17 | 66,450,000 | 66,600,000 | 887 | 782 | 0.437452391 | CORO1C,SELPLG,TMEM119,ENSBTAG00000023431 |
| 17 | 66,525,000 | 66,675,000 | 888 | 1100 | 0.624549453 | CORO1C,FICD,SART3,SELPLG,TMEM119 |
| 17 | 66,600,000 | 66,750,000 | 889 | 1437 | 0.287528246 | FICD,ISCU,SART3 |
| 17 | 66,675,000 | 66,825,000 | 890 | 1690 | 0.439507489 | ISCU |
| 17 | 66,750,000 | 66,900,000 | 891 | 1892 | 0.75509627 | CMLKR1,WSCD2 |
| 17 | 66,825,000 | 66,975,000 | 892 | 1884 | 0.906318084 | CMLKR1,WSCD2 |
| 17 | 66,900,000 | 67,050,000 | 893 | 1915 | 0.854483476 | WSCD2 |
| 17 | 66,975,000 | 67,125,000 | 894 | 1621 | 0.051816533 | |
| 17 | 67,050,000 | 67,200,000 | 895 | 884 | -0.690677494 | |
| 17 | 67,125,000 | 67,275,000 | 896 | 987 | 0.050734061 | PIWIL3 |
| 17 | 67,200,000 | 67,350,000 | 897 | 1526 | 0.681506591 | PIWIL3,SGSM1,TMEM211 |
| 17 | 67,275,000 | 67,425,000 | 898 | 1397 | 0.659084733 | KIAA1671,SGSM1,TMEM211 |
| 17 | 67,350,000 | 67,500,000 | 899 | 1324 | 0.357965045 | KIAA1671 |
| 17 | 67,425,000 | 67,575,000 | 900 | 1428 | -0.206657977 | CRYBB2,CRYBB3,KIAA1671 |
| 17 | 67,500,000 | 67,650,000 | 901 | 1329 | -0.42683625 | CRYBB2,CRYBB3,KIAA1671 |
| 17 | 67,575,000 | 67,725,000 | 902 | 1244 | 0.413839911 | ADRBK2 |
| 17 | 67,650,000 | 67,800,000 | 903 | 1154 | 0.660004163 | ADRBK2,MYO18B |
| 17 | 67,725,000 | 67,875,000 | 904 | 1221 | -0.161515831 | ADRBK2,MYO18B |
| 17 | 67,800,000 | 67,950,000 | 905 | 1254 | 0.051798897 | MYO18B |
| 17 | 67,875,000 | 68,025,000 | 906 | 1085 | 0.785502982 | MYO18B |
| 17 | 67,950,000 | 68,100,000 | 907 | 983 | -0.160575188 | MYO18B |
| 17 | 68,025,000 | 68,175,000 | 908 | 1015 | 0.640259122 | |
| 17 | 68,100,000 | 68,250,000 | 909 | 1423 | 1.012362154 | SEZ6L |
| 17 | 68,175,000 | 68,325,000 | 910 | 1674 | 0.668349907 | SEZ6L |
| 17 | 68,250,000 | 68,400,000 | 911 | 1622 | 0.331212257 | ASPHD2,HPS4,SEZ6L,SRRD |
| 17 | 68,325,000 | 68,475,000 | 912 | 1795 | 0.254608945 | ASPHD2,HPS4,SRRD,TFIP11,TPST2 |
| 17 | 68,400,000 | 68,550,000 | 913 | 1576 | 0.162036457 | CRYBA4,CRYBB1,SRRD,TFIP11,TPST2 |
| 17 | 68,475,000 | 68,625,000 | 914 | 1201 | -1.006624398 | CRYBA4,CRYBB1,TPST2,ENSBTAG00000031468 |
| 17 | 68,550,000 | 68,700,000 | 915 | 1204 | -0.786894292 | ENSBTAG00000031468 |
| 17 | 68,625,000 | 68,775,000 | 916 | 1103 | -0.6253664 | |
| 17 | 68,700,000 | 68,850,000 | 917 | 895 | -1.288227213 | |
| 17 | 68,775,000 | 68,925,000 | 918 | 1081 | 0.01589505 | |
| 17 | 68,850,000 | 69,000,000 | 919 | 1294 | 0.720733787 | |
| 17 | 68,925,000 | 69,075,000 | 920 | 1426 | 0.983672505 | |
| 17 | 69,000,000 | 69,150,000 | 921 | 1340 | 0.05222155 | |
| 17 | 69,075,000 | 69,225,000 | 922 | 1056 | -0.461693886 | |
| 17 | 69,150,000 | 69,300,000 | 923 | 1154 | 0.098069779 | |
| 17 | 69,225,000 | 69,375,000 | 924 | 1215 | -0.092632814 | |
| 17 | 69,300,000 | 69,450,000 | 925 | 963 | 0.390799091 | MN1 |
| 17 | 69,375,000 | 69,525,000 | 926 | 732 | 1.122385656 | MN1 |
| 17 | 69,450,000 | 69,600,000 | 927 | 666 | 1.252506685 | MN1,PITPNB |
| 17 | 69,525,000 | 69,675,000 | 928 | 706 | 0.79840613 | PITPNB,TTC28 |
| 17 | 69,600,000 | 69,750,000 | 929 | 702 | 0.43382001 | TTC28 |
| 17 | 69,675,000 | 69,825,000 | 930 | 736 | 0.646614078 | TTC28 |
| 17 | 69,750,000 | 69,900,000 | 931 | 723 | -0.623006442 | TTC28 |
| 17 | 69,825,000 | 69,975,000 | 932 | 514 | -1.292964163 | TTC28 |
| 17 | 69,900,000 | 70,050,000 | 933 | 404 | -1.191858768 | TTC28 |
| 17 | 69,975,000 | 70,125,000 | 934 | 356 | -1.90012237 | |
| 17 | 70,050,000 | 70,200,000 | 935 | 347 | -0.009257507 | |
| 17 | 70,125,000 | 70,275,000 | 936 | 326 | 0.889555044 | CHEK2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 17 | 70,200,000 | 70,350,000 | 937 | 622 | 0.264566252 | CCDC117,CHEK2,HSCB,XBP1 |
| 17 | 70,275,000 | 70,425,000 | 938 | 924 | 0.172605556 | CCDC117,CHEK2,HSCB,XBP1 |
| 17 | 70,350,000 | 70,500,000 | 939 | 957 | 0.174221614 | |
| 17 | 70,425,000 | 70,575,000 | 940 | 803 | 0.28389819 | C17H22orf31,KREMEN1,ZNRF3 |
| 17 | 70,500,000 | 70,650,000 | 941 | 601 | 0.513041886 | C17H22orf31,EMID1,KREMEN1,ZNRF3 |
| 17 | 70,575,000 | 70,725,000 | 942 | 576 | 0.756472804 | EMID1,EWSR1,GAS2L1,KREMEN1,RASL10A,RHBDD3 |
| 17 | 70,650,000 | 70,800,000 | 943 | 628 | 0.815767054 | AP1B1,EMID1,EWSR1,GAS2L1,RASL10A,RHBDD3 |
| 17 | 70,725,000 | 70,875,000 | 944 | 892 | 0.548232545 | AP1B1,NEFH,NIPSNAP1,RASL10A,THOC5 |
| 17 | 70,800,000 | 70,950,000 | 945 | 940 | 0.27806419 | NEFH,NF2,NIPSNAP1,THOC5 |
| 17 | 70,875,000 | 71,025,000 | 946 | 770 | -0.022967411 | CABP7,NF2,NIPSNAP1,ZMAT5 |
| 17 | 70,950,000 | 71,100,000 | 947 | 836 | 0.428352391 | ASCC2,CABP7,NF2,UQCR10,ZMAT5 |
| 17 | 71,025,000 | 71,175,000 | 948 | 894 | 0.17155444 | ASCC2,MTMR3,UQCR10,ZMAT5 |
| 17 | 71,100,000 | 71,250,000 | 949 | 755 | 0.212604271 | MTMR3 |
| 17 | 71,175,000 | 71,325,000 | 950 | 838 | 0.891027754 | HORMAD2,MTMR3 |
| 17 | 71,250,000 | 71,400,000 | 951 | 938 | 0.142228795 | HORMAD2,MTMR3 |
| 17 | 71,325,000 | 71,475,000 | 952 | 774 | -0.58672319 | GATSL3,HORMAD2,LIF,OSM,TBC1D10A |
| 17 | 71,400,000 | 71,550,000 | 953 | 705 | -0.013428497 | CCDC157,GATSL3,LIF,OSM,RNF215,SF3A1,TBC1D10A |
| 17 | 71,475,000 | 71,625,000 | 954 | 822 | 0.488221744 | CCDC157,MTP18,RNF215,SEC14L2,SEC14L3,SEC14L4, SF3A1,ENSBTAG00000037993 |
| 17 | 71,550,000 | 71,700,000 | 955 | 1131 | 0.747367514 | GAL3ST1,MTP18,PES1,SEC14L2,SEC14L3,SEC14L4,ENS BTAG00000037993 |
| 17 | 71,625,000 | 71,775,000 | 956 | 1293 | 0.696004268 | C5orf52,DUSP18,GAL3ST1,OSBP2,PES1,SLC35E4,TCN2 |
| 17 | 71,700,000 | 71,850,000 | 957 | 1631 | 0.585494414 | C5orf52,DUSP18,OSBP2,PES1,SLC35E4,TCN2 |
| 17 | 71,775,000 | 71,925,000 | 958 | 1820 | 0.65155622 | MORC2,OSBP2 |
| 17 | 71,850,000 | 72,000,000 | 959 | 1182 | 0.755818864 | MORC2,OSBP2 |
| 17 | 71,925,000 | 72,075,000 | 960 | 857 | 0.07823955 | MORC2,SELM,SMTN |
| 17 | 72,000,000 | 72,150,000 | 961 | 840 | 0.111689754 | INPP5J,LIMK2,PLA2G3,RNF185,SELM,SMTN |
| 17 | 72,075,000 | 72,225,000 | 962 | 907 | 0.897757854 | INPP5J,LIMK2,PIK3IP1,PLA2G3,RNF185 |
| 17 | 72,150,000 | 72,300,000 | 963 | 980 | 0.941669526 | DRG1,EIF4ENIF1,LIMK2,PATZ1,PIK3IP1 |
| 17 | 72,225,000 | 72,375,000 | 964 | 1087 | 0.852887579 | DRG1,EIF4ENIF1,PATZ1,SFI1 |
| 17 | 72,300,000 | 72,450,000 | 965 | 1311 | 0.585309851 | EIF4ENIF1,PISD,SFI1 |
| 17 | 72,375,000 | 72,525,000 | 966 | 1099 | 0.474296079 | DEPDC5,PISD,PRR14L,SFI1 |
| 17 | 72,450,000 | 72,600,000 | 967 | 1057 | 0.260587156 | DEPDC5,PISD,PRR14L |
| 17 | 72,525,000 | 72,675,000 | 968 | 1226 | -0.83033738 | DEPDC5,YWHAH |
| 17 | 72,600,000 | 72,750,000 | 969 | 1477 | -0.923924825 | SGLT1,SLC5A4,YWHAH |
| 17 | 72,675,000 | 72,825,000 | 970 | 1585 | -0.254098086 | SGLT1,SLC5A4,ENSBTAG00000046584,ENSBTAG0000 0048030 |
| 17 | 72,750,000 | 72,900,000 | 971 | 1398 | -0.368132466 | IGLL1,SLC5A4,ENSBTAG00000039237,ENSBTAG00000 046584,ENSBTAG00000047529,ENSBTAG0000004798 6,ENSBTAG00000048030 |
| 17 | 72,825,000 | 72,975,000 | 972 | 1569 | -0.18372376 | IGLL1,ENSBTAG00000039237,ENSBTAG00000047529, ENSBTAG00000047986 |
| 17 | 72,900,000 | 73,050,000 | 973 | 1742 | -0.112778934 | IGLL1,ZNF280A,ZNF280B,ENSBTAG00000033890 |
| 17 | 72,975,000 | 73,125,000 | 974 | 1872 | -0.429029455 | IGLL1,ZNF280A,ZNF280B,ENSBTAG00000033890,ENS BTAG00000047121 |
| 17 | 73,050,000 | 73,200,000 | 975 | 1806 | -0.059885051 | IGLL1,ZNF70,ENSBTAG00000047121 |
| 17 | 73,125,000 | 73,275,000 | 976 | 1270 | 0.206494783 | C22orf15,CHCHD10,DERL3,IGLL1,MIF,MMP11,SMARC B1,VPREB3,ZNF70,ENSBTAG00000018647,ENSBTAG0 0000047121 |
| 17 | 73,200,000 | 73,350,000 | 977 | 904 | 0.31791494 | C22orf15,CABIN1,CHCHD10,DDT,DERL3,GSTT1,GSTT3 ,MIF,MMP11,SMARCB1,VPREB3,ENSBTAG0000000017 0,ENSBTAG00000018647 |

| | | | | | | |
|----|------------|------------|------|------|--------------|---|
| 17 | 73,275,000 | 73,425,000 | 978 | 863 | 0.529646839 | CABIN1,DDT,GSTT1,GSTT3,SUSD2,ENSBTAG00000000170 |
| 17 | 73,350,000 | 73,500,000 | 979 | 1044 | 0.268805978 | C17H22orf13,CABIN1,GGT5,SNRPD3,SUSD2,ENSBTAG0000046900 |
| 17 | 73,425,000 | 73,575,000 | 980 | 1590 | 0.576995112 | C17H22orf13,GGT5,SNRPD3,UPB1,ENSBTAG00000046900 |
| 17 | 73,500,000 | 73,650,000 | 981 | 1588 | 0.82903184 | SPECC1L,UPB1,ENSBTAG00000016944 |
| 17 | 73,575,000 | 73,725,000 | 982 | 1306 | 0.345371547 | BCR,SPECC1L,ENSBTAG00000016944 |
| 17 | 73,650,000 | 73,800,000 | 983 | 1257 | 0.184962114 | BCR,RAB36,RTDR1,SPECC1L |
| 17 | 73,725,000 | 73,875,000 | 984 | 953 | 0.222420815 | BCR,GNAZ,RAB36,RTDR1,ENSBTAG00000023007 |
| 17 | 73,800,000 | 73,950,000 | 985 | 1144 | -0.397243399 | GNAZ,RTDR1,VPREB,ENSBTAG00000023007 |
| 17 | 73,875,000 | 74,025,000 | 986 | 1268 | -0.137572279 | MAPK1,PPM1F,VPREB,ENSBTAG00000023007,ENSBTAG00000047805 |
| 17 | 73,950,000 | 74,100,000 | 987 | 976 | 0.843401783 | DGCR6L,MAPK1,PPIL2,PPM1F,YPEL1,ENSBTAG00000022019,ENSBTAG00000047805 |
| 17 | 74,025,000 | 74,175,000 | 988 | 833 | 0.702128051 | CCDC116,DGCR6L,MAPK1,PPIL2,SDF2L1,UBE2L3,YDJC,YPEL1,ENSBTAG00000022019,ENSBTAG00000047538 |
| 17 | 74,100,000 | 74,250,000 | 989 | 706 | 0.5559481 | CCDC116,HIC2,PI4KA,SDF2L1,SERPIND1,TMEM191B,UBE2L3,YDJC,ENSBTAG00000047538 |
| 17 | 74,175,000 | 74,325,000 | 990 | 739 | 0.316647423 | AIFM3,CRKL,HIC2,LZTR1,PI4KA,SERPIND1,SNAP29,TMEM191B |
| 17 | 74,250,000 | 74,400,000 | 991 | 868 | 0.466833231 | AIFM3,CRKL,LZTR1,MZT2,P2RX6,PI4KA,SLC7A4,SMPD4,SNAP29,THAP7,TUBA3E,ENSBTAG00000038258 |
| 17 | 74,325,000 | 74,475,000 | 992 | 747 | 0.831852435 | LZTR1,MED15,MZT2,P2RX6,PRODH,SLC7A4,SMPD4,THAP7,TUBA3E,ENSBTAG00000031018,ENSBTAG00000038258,ENSBTAG00000046165 |
| 17 | 74,400,000 | 74,550,000 | 993 | 729 | 0.866674421 | KLHL22,MED15,PRODH,SCARF2,SMPD4,ENSBTAG00000031018,ENSBTAG00000046165 |
| 17 | 74,475,000 | 74,625,000 | 994 | 764 | 0.756088212 | DGCR14,DGCR2,GSC2,KLHL22,MED15,SCARF2,TSSK1B,TSSK2,ZNF74 |
| 17 | 74,550,000 | 74,700,000 | 995 | 744 | -1.644534075 | DGCR14,DGCR2,GSC2,HIRA,SLC25A1,TSSK1B,TSSK2,ZNF74 |
| 17 | 74,625,000 | 74,775,000 | 996 | 988 | -1.728875815 | C22orf39,CDC45L,CLDN5,HIRA,MRPL40,SLC25A1,UFD1L |
| 17 | 74,700,000 | 74,850,000 | 997 | 914 | -0.190546441 | C22orf39,CDC45L,CLDN5,GP1BB,MRPL40,SEPT5,UFD1L |
| 17 | 74,775,000 | 74,925,000 | 998 | 632 | 0.382221647 | GNB1L,GP1BB,SEPT5,TXNRD2,ENSBTAG00000047896 |
| 17 | 74,850,000 | 75,000,000 | 999 | 496 | 0.897587803 | ARVCF,COMT,DGCR8,GNB1L,TANGO2,TXNRD2,ENSBTAG00000047896 |
| 17 | 74,925,000 | 75,075,000 | 1000 | 317 | 0.937901292 | ARVCF,COMT,DGCR8,RANBP1,TANGO2,TRMT2A,ZDHHC8,ENSBTAG00000046005,ENSBTAG00000047626 |
| 17 | 75,000,000 | 75,150,000 | 1001 | 385 | 0.72588142 | DGCR8,RANBP1,RTN4R,TRMT2A,ZDHHC8,ENSBTAG0000046005,ENSBTAG00000046322,ENSBTAG00000047626 |
| 17 | 75,075,000 | 75,158,596 | 1002 | 272 | 0.695988895 | RTN4R,ENSBTAG00000046322 |
| 18 | 0 | 150,000 | 1 | 472 | 0.228285403 | |
| 18 | 75,000 | 225,000 | 2 | 427 | 0.631086872 | |
| 18 | 150,000 | 300,000 | 3 | 247 | 0.676434376 | |
| 18 | 225,000 | 375,000 | 4 | 214 | 0.899396736 | |
| 18 | 300,000 | 450,000 | 5 | 416 | 1.152446176 | |
| 18 | 375,000 | 525,000 | 6 | 437 | 0.867252441 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 18 | 450,000 | 600,000 | 7 | 435 | -1.665014644 | |
| 18 | 525,000 | 675,000 | 8 | 849 | -0.933215913 | |
| 18 | 600,000 | 750,000 | 9 | 558 | -0.024129504 | |
| 18 | 675,000 | 825,000 | 10 | 508 | -1.369026414 | |
| 18 | 750,000 | 900,000 | 11 | 1502 | -1.043280084 | |
| 18 | 825,000 | 975,000 | 12 | 1805 | -1.136531064 | |
| 18 | 900,000 | 1,050,000 | 13 | 1860 | -0.829268345 | UQCRFS1 |
| 18 | 975,000 | 1,125,000 | 14 | 1755 | -0.041352785 | UQCRFS1 |
| 18 | 1,050,000 | 1,200,000 | 15 | 1508 | 0.066966395 | |
| 18 | 1,125,000 | 1,275,000 | 16 | 1387 | -0.396389207 | |
| 18 | 1,200,000 | 1,350,000 | 17 | 1027 | -0.594736982 | VSTM2B |
| 18 | 1,275,000 | 1,425,000 | 18 | 1295 | -1.354102532 | VSTM2B |
| 18 | 1,350,000 | 1,500,000 | 19 | 1184 | -1.638970753 | VAC14 |
| 18 | 1,425,000 | 1,575,000 | 20 | 739 | -1.677903635 | IL34,MTSS1L,VAC14 |
| 18 | 1,500,000 | 1,650,000 | 21 | 787 | -0.997573022 | IL34,MTSS1L,SF3B3,VAC14 |
| 18 | 1,575,000 | 1,725,000 | 22 | 1050 | 0.947272896 | COG4,FUK,IL34,SF3B3 |
| 18 | 1,650,000 | 1,800,000 | 23 | 1382 | 1.077785346 | COG4,DDX19A,FUK,SF3B3,SIAT4B,ENSBTAG00000020714 |
| 18 | 1,725,000 | 1,875,000 | 24 | 1382 | 1.077434245 | AARS,DDX19A,MRCL,SIAT4B,ENSBTAG00000020714 |
| 18 | 1,800,000 | 1,950,000 | 25 | 1017 | 1.03138537 | AARS,MRCL,PDPR,ENSBTAG00000020714,ENSBTAG0000047937 |
| 18 | 1,875,000 | 2,025,000 | 26 | 808 | 0.449329378 | GLG1,MRCL,PDPR,ENSBTAG00000047937 |
| 18 | 1,950,000 | 2,100,000 | 27 | 920 | 0.699996917 | GLG1,PDPR,ENSBTAG00000004526 |
| 18 | 2,025,000 | 2,175,000 | 28 | 779 | 0.077355925 | GLG1,MLKL,RFWD3,ENSBTAG00000004526 |
| 18 | 2,100,000 | 2,250,000 | 29 | 802 | -2.153875319 | FA2H,MLKL,RFWD3,ENSBTAG00000004526 |
| 18 | 2,175,000 | 2,325,000 | 30 | 916 | -1.438850659 | FA2H,MLKL,WDR59 |
| 18 | 2,250,000 | 2,400,000 | 31 | 632 | -1.01434919 | WDR59,ZNRF1 |
| 18 | 2,325,000 | 2,475,000 | 32 | 616 | -1.622567002 | WDR59,ZNRF1 |
| 18 | 2,400,000 | 2,550,000 | 33 | 660 | 0.375262188 | LDHD,ZFP1,ZNRF1 |
| 18 | 2,475,000 | 2,625,000 | 34 | 335 | 0.455575259 | BCAR1,CTRB1,LDHD,ZFP1,ZNRF1,ENSBTAG00000011995,ENSBTAG00000039914 |
| 18 | 2,550,000 | 2,700,000 | 35 | 373 | 0.258347923 | BCAR1,CFDP1,CTRB1,ENSBTAG00000011995,ENSBTAG00000039914 |
| 18 | 2,625,000 | 2,775,000 | 36 | 577 | -0.590495327 | BCAR1,BCNT,CFDP1 |
| 18 | 2,700,000 | 2,850,000 | 37 | 656 | 0.26337842 | BCNT,CFDP1,P97BCNT2,TMEM170A |
| 18 | 2,775,000 | 2,925,000 | 38 | 823 | 0.304791023 | BCNT,GABARAPL2,P97BCNT2,TMEM170A,TMEM231,ENSBTAG00000040000 |
| 18 | 2,850,000 | 3,000,000 | 39 | 838 | 0.045466896 | ADAT1,EEF1A1,GABARAPL2,KARS,TERF2IP,TMEM170A,TMEM231,ENSBTAG00000040000 |
| 18 | 2,925,000 | 3,075,000 | 40 | 941 | -0.576211343 | ADAT1,EEF1A1,KARS,TERF2IP |
| 18 | 3,000,000 | 3,150,000 | 41 | 1076 | -0.553238872 | |
| 18 | 3,075,000 | 3,225,000 | 42 | 1186 | 0.310228721 | |
| 18 | 3,150,000 | 3,300,000 | 43 | 1099 | 0.193537144 | |
| 18 | 3,225,000 | 3,375,000 | 44 | 836 | 0.673662498 | |
| 18 | 3,300,000 | 3,450,000 | 45 | 802 | 0.98241981 | |
| 18 | 3,375,000 | 3,525,000 | 46 | 711 | 0.126964465 | CNTNAP4 |
| 18 | 3,450,000 | 3,600,000 | 47 | 717 | 0.58492006 | CNTNAP4 |
| 18 | 3,525,000 | 3,675,000 | 48 | 1126 | 0.682077586 | CNTNAP4 |
| 18 | 3,600,000 | 3,750,000 | 49 | 1472 | 0.782156484 | CNTNAP4 |
| 18 | 3,675,000 | 3,825,000 | 50 | 1391 | 0.912560598 | CNTNAP4 |
| 18 | 3,750,000 | 3,900,000 | 51 | 1386 | 0.195147432 | |
| 18 | 3,825,000 | 3,975,000 | 52 | 1337 | -0.716675826 | |
| 18 | 3,900,000 | 4,050,000 | 53 | 1118 | -0.096054235 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---------------------------------------|
| 18 | 3,975,000 | 4,125,000 | 54 | 1179 | 0.950624861 | |
| 18 | 4,050,000 | 4,200,000 | 55 | 1370 | 0.919745948 | |
| 18 | 4,125,000 | 4,275,000 | 56 | 1359 | 0.790830463 | |
| 18 | 4,200,000 | 4,350,000 | 57 | 1138 | 0.264210902 | |
| 18 | 4,275,000 | 4,425,000 | 58 | 910 | -0.269290769 | ENSBTAG00000012131 |
| 18 | 4,350,000 | 4,500,000 | 59 | 708 | 0.473226832 | MON1B,SYCE1L,ENSBTAG00000012131 |
| 18 | 4,425,000 | 4,575,000 | 60 | 845 | 0.236251051 | ADAMTS18,MON1B,SYCE1L |
| 18 | 4,500,000 | 4,650,000 | 61 | 1050 | 0.182150867 | ADAMTS18 |
| 18 | 4,575,000 | 4,725,000 | 62 | 1206 | 0.299310384 | ADAMTS18 |
| 18 | 4,650,000 | 4,800,000 | 63 | 1284 | 0.070276244 | ADAMTS18 |
| 18 | 4,725,000 | 4,875,000 | 64 | 1189 | 0.580068884 | |
| 18 | 4,800,000 | 4,950,000 | 65 | 1333 | 0.707622961 | |
| 18 | 4,875,000 | 5,025,000 | 66 | 1480 | 0.207299255 | NUDT7 |
| 18 | 4,950,000 | 5,100,000 | 67 | 1533 | -0.193089764 | NUDT7,VAT1L |
| 18 | 5,025,000 | 5,175,000 | 68 | 1798 | 0.244943432 | VAT1L |
| 18 | 5,100,000 | 5,250,000 | 69 | 2241 | 0.719484244 | CLEC3A,VAT1L |
| 18 | 5,175,000 | 5,325,000 | 70 | 2172 | 0.981930319 | CLEC3A,VAT1L,WWOX |
| 18 | 5,250,000 | 5,400,000 | 71 | 1751 | 0.691503469 | CLEC3A,WWOX |
| 18 | 5,325,000 | 5,475,000 | 72 | 1321 | -0.429729067 | WWOX |
| 18 | 5,400,000 | 5,550,000 | 73 | 1079 | -0.567487385 | WWOX |
| 18 | 5,475,000 | 5,625,000 | 74 | 1215 | 0.805279009 | WWOX |
| 18 | 5,550,000 | 5,700,000 | 75 | 1156 | 0.654086296 | WWOX |
| 18 | 5,625,000 | 5,775,000 | 76 | 981 | 0.145749926 | WWOX |
| 18 | 5,700,000 | 5,850,000 | 77 | 987 | -0.90929204 | WWOX |
| 18 | 5,775,000 | 5,925,000 | 78 | 841 | -0.665687615 | WWOX |
| 18 | 5,850,000 | 6,000,000 | 79 | 596 | 0.604485736 | WWOX |
| 18 | 5,925,000 | 6,075,000 | 80 | 552 | 0.475418555 | WWOX |
| 18 | 6,000,000 | 6,150,000 | 81 | 647 | 0.073470652 | WWOX |
| 18 | 6,075,000 | 6,225,000 | 82 | 1021 | -0.481371201 | WWOX |
| 18 | 6,150,000 | 6,300,000 | 83 | 1069 | -0.375236574 | WWOX |
| 18 | 6,225,000 | 6,375,000 | 84 | 951 | -1.406184474 | |
| 18 | 6,300,000 | 6,450,000 | 85 | 1218 | -1.044402366 | |
| 18 | 6,375,000 | 6,525,000 | 86 | 1229 | 0.231172314 | |
| 18 | 6,450,000 | 6,600,000 | 87 | 959 | 0.383888396 | MAF |
| 18 | 6,525,000 | 6,675,000 | 88 | 966 | 0.396670868 | MAF |
| 18 | 6,600,000 | 6,750,000 | 89 | 870 | 0.924261596 | |
| 18 | 6,675,000 | 6,825,000 | 90 | 985 | 0.892874735 | |
| 18 | 6,750,000 | 6,900,000 | 91 | 1312 | 1.055501183 | |
| 18 | 6,825,000 | 6,975,000 | 92 | 1140 | 0.580287062 | |
| 18 | 6,900,000 | 7,050,000 | 93 | 1003 | -0.549124923 | |
| 18 | 6,975,000 | 7,125,000 | 94 | 1016 | -0.267624017 | |
| 18 | 7,050,000 | 7,200,000 | 95 | 1045 | 0.103778306 | |
| 18 | 7,125,000 | 7,275,000 | 96 | 860 | 0.705648611 | |
| 18 | 7,200,000 | 7,350,000 | 97 | 538 | 0.507339966 | |
| 18 | 7,275,000 | 7,425,000 | 98 | 558 | -0.039657091 | CDYL2,DYNLRB2 |
| 18 | 7,350,000 | 7,500,000 | 99 | 880 | 0.22993765 | CDYL2,DYNLRB2 |
| 18 | 7,425,000 | 7,575,000 | 100 | 1091 | 0.399890719 | CDYL2 |
| 18 | 7,500,000 | 7,650,000 | 101 | 1174 | -0.064289784 | |
| 18 | 7,575,000 | 7,725,000 | 102 | 1095 | -0.61209431 | CMC2 |
| 18 | 7,650,000 | 7,800,000 | 103 | 622 | -0.502358408 | ATMIN,C16orf46,CENPN,CMC2,GCSH |
| 18 | 7,725,000 | 7,875,000 | 104 | 369 | 0.602357081 | ATMIN,C16orf46,CENPN,CMC2,GCSH,PKD1L2 |
| 18 | 7,800,000 | 7,950,000 | 105 | 660 | 0.805016883 | BCMO1,GCSH,PKD1L2 |
| 18 | 7,875,000 | 8,025,000 | 106 | 1100 | 1.171422624 | BCMO1,GAN,PKD1L2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 7,950,000 | 8,100,000 | 107 | 1093 | 1.237227412 | BCMO1,GAN |
| 18 | 8,025,000 | 8,175,000 | 108 | 717 | 0.92875013 | GAN |
| 18 | 8,100,000 | 8,250,000 | 109 | 878 | -0.414094051 | CMIP |
| 18 | 8,175,000 | 8,325,000 | 110 | 995 | -0.76953178 | CMIP |
| 18 | 8,250,000 | 8,400,000 | 111 | 1069 | -0.335532563 | CMIP |
| 18 | 8,325,000 | 8,475,000 | 112 | 1116 | -0.60375857 | PLCG2,ENSBTAG00000048177 |
| 18 | 8,400,000 | 8,550,000 | 113 | 845 | -0.73908305 | PLCG2,ENSBTAG00000048177 |
| 18 | 8,475,000 | 8,625,000 | 114 | 892 | -0.870357061 | PLCG2,SDR42E1 |
| 18 | 8,550,000 | 8,700,000 | 115 | 851 | -0.829399849 | HSD17B2,SDR42E1 |
| 18 | 8,625,000 | 8,775,000 | 116 | 555 | 0.393065781 | HSD17B2,MPHOSPH6 |
| 18 | 8,700,000 | 8,850,000 | 117 | 409 | 0.725468003 | HSD17B2,MPHOSPH6 |
| 18 | 8,775,000 | 8,925,000 | 118 | 507 | 0.401289984 | MPHOSPH6 |
| 18 | 8,850,000 | 9,000,000 | 119 | 621 | 0.153791708 | |
| 18 | 8,925,000 | 9,075,000 | 120 | 873 | 0.270862471 | |
| 18 | 9,000,000 | 9,150,000 | 121 | 1179 | 0.246984789 | |
| 18 | 9,075,000 | 9,225,000 | 122 | 1353 | 0.634357442 | |
| 18 | 9,150,000 | 9,300,000 | 123 | 1179 | 0.715072696 | |
| 18 | 9,225,000 | 9,375,000 | 124 | 731 | 0.180530377 | |
| 18 | 9,300,000 | 9,450,000 | 125 | 882 | 0.688083736 | |
| 18 | 9,375,000 | 9,525,000 | 126 | 925 | 0.498484541 | CDH13 |
| 18 | 9,450,000 | 9,600,000 | 127 | 985 | 0.192180098 | CDH13 |
| 18 | 9,525,000 | 9,675,000 | 128 | 1441 | 0.601613501 | CDH13 |
| 18 | 9,600,000 | 9,750,000 | 129 | 1362 | 0.814329002 | CDH13 |
| 18 | 9,675,000 | 9,825,000 | 130 | 990 | 0.195786868 | CDH13 |
| 18 | 9,750,000 | 9,900,000 | 131 | 902 | -0.301568605 | CDH13 |
| 18 | 9,825,000 | 9,975,000 | 132 | 757 | -0.423255597 | CDH13 |
| 18 | 9,900,000 | 10,050,000 | 133 | 939 | -0.070341043 | CDH13 |
| 18 | 9,975,000 | 10,125,000 | 134 | 1160 | -0.391204097 | CDH13 |
| 18 | 10,050,000 | 10,200,000 | 135 | 829 | -0.810843983 | CDH13,HSBP1 |
| 18 | 10,125,000 | 10,275,000 | 136 | 774 | 0.603027265 | CDH13,HSBP1,MLYCD |
| 18 | 10,200,000 | 10,350,000 | 137 | 1190 | 1.020190621 | MLYCD,NECAB2,OSGIN1 |
| 18 | 10,275,000 | 10,425,000 | 138 | 1442 | 0.983355023 | MBTPS1,NECAB2,OSGIN1,SLC38A8 |
| 18 | 10,350,000 | 10,500,000 | 139 | 1320 | 0.987967078 | ADAD2,DNAAF1,HSDL1,MBTPS1,NECAB2,SLC38A8,TA F1C |
| 18 | 10,425,000 | 10,575,000 | 140 | 1060 | 0.673510642 | ADAD2,DNAAF1,HSDL1,KCNG4,MBTPS1,TAF1C |
| 18 | 10,500,000 | 10,650,000 | 141 | 939 | 0.482553035 | ATP2C2,KCNG4 |
| 18 | 10,575,000 | 10,725,000 | 142 | 1412 | 0.075505853 | ATP2C2,TLDC1 |
| 18 | 10,650,000 | 10,800,000 | 143 | 1547 | -1.37887441 | ATP2C2,COTL1,TLDC1 |
| 18 | 10,725,000 | 10,875,000 | 144 | 1053 | -1.926266148 | COTL1,KLHL36 |
| 18 | 10,800,000 | 10,950,000 | 145 | 770 | 0.533245138 | COTL1,KLHL36,USP10 |
| 18 | 10,875,000 | 11,025,000 | 146 | 652 | 0.703102165 | CRISPLD2,USP10 |
| 18 | 10,950,000 | 11,100,000 | 147 | 702 | 0.554050116 | CRISPLD2 |
| 18 | 11,025,000 | 11,175,000 | 148 | 902 | -2.263955196 | CRISPLD2,KIAA0513,ZDHHC7 |
| 18 | 11,100,000 | 11,250,000 | 149 | 824 | -3.320528104 | FAM92B,KIAA0513,ZDHHC7 |
| 18 | 11,175,000 | 11,325,000 | 150 | 654 | -0.362338314 | FAM92B,KIAA0513 |
| 18 | 11,250,000 | 11,400,000 | 151 | 841 | 0.071625409 | |
| 18 | 11,325,000 | 11,475,000 | 152 | 865 | -0.06499727 | |
| 18 | 11,400,000 | 11,550,000 | 153 | 703 | 0.23971232 | |
| 18 | 11,475,000 | 11,625,000 | 154 | 614 | 1.014941356 | |
| 18 | 11,550,000 | 11,700,000 | 155 | 451 | 1.291996285 | GINS2,GSE1 |
| 18 | 11,625,000 | 11,775,000 | 156 | 666 | 0.083324545 | GINS2,GSE1 |
| 18 | 11,700,000 | 11,850,000 | 157 | 852 | 0.146167195 | COX4I1,EMC8,GINS2 |
| 18 | 11,775,000 | 11,925,000 | 158 | 727 | 0.831305707 | COX4I1,EMC8,IRF8 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 11,850,000 | 12,000,000 | 159 | 752 | 0.705460686 | IRF8 |
| 18 | 11,925,000 | 12,075,000 | 160 | 1040 | 0.522244171 | |
| 18 | 12,000,000 | 12,150,000 | 161 | 947 | -0.254273649 | |
| 18 | 12,075,000 | 12,225,000 | 162 | 470 | -1.89773636 | |
| 18 | 12,150,000 | 12,300,000 | 163 | 307 | 0.230693185 | |
| 18 | 12,225,000 | 12,375,000 | 164 | 374 | 0.948293188 | |
| 18 | 12,300,000 | 12,450,000 | 165 | 384 | 0.222611577 | FOXC2,FOXF1,FOXL1,MTHFSD |
| 18 | 12,375,000 | 12,525,000 | 166 | 301 | -0.879791689 | FOXC2,FOXF1,FOXL1,MTHFSD |
| 18 | 12,450,000 | 12,600,000 | 167 | 298 | -0.233745163 | |
| 18 | 12,525,000 | 12,675,000 | 168 | 448 | 0.251716457 | |
| 18 | 12,600,000 | 12,750,000 | 169 | 625 | 0.095187387 | |
| 18 | 12,675,000 | 12,825,000 | 170 | 542 | 0.371746844 | |
| 18 | 12,750,000 | 12,900,000 | 171 | 360 | 0.531102129 | |
| 18 | 12,825,000 | 12,975,000 | 172 | 305 | 0.335336694 | C16orf95,FBXO31 |
| 18 | 12,900,000 | 13,050,000 | 173 | 250 | 0.858810757 | C16orf95,FBXO31,MAP1LC3B,ZCCHC14 |
| 18 | 12,975,000 | 13,125,000 | 174 | 228 | 1.002631617 | FBXO31,MAP1LC3B,ZCCHC14 |
| 18 | 13,050,000 | 13,200,000 | 175 | 333 | 0.467254438 | JPH3,ZCCHC14 |
| 18 | 13,125,000 | 13,275,000 | 176 | 776 | -0.100598535 | JPH3,KLHDC4 |
| 18 | 13,200,000 | 13,350,000 | 177 | 1057 | -0.067528989 | JPH3,KLHDC4,LAT |
| 18 | 13,275,000 | 13,425,000 | 178 | 803 | 0.255867805 | CA5A,KLHDC4,LAT |
| 18 | 13,350,000 | 13,500,000 | 179 | 541 | 0.123103467 | BANP,CA5A,LAT |
| 18 | 13,425,000 | 13,575,000 | 180 | 404 | -0.369584893 | BANP |
| 18 | 13,500,000 | 13,650,000 | 181 | 656 | -1.416334869 | |
| 18 | 13,575,000 | 13,725,000 | 182 | 643 | -1.706935303 | |
| 18 | 13,650,000 | 13,800,000 | 183 | 343 | -1.480742208 | ZNF469 |
| 18 | 13,725,000 | 13,875,000 | 184 | 330 | -0.497092617 | ZFPM1,ZNF469,ENSBTAG00000018507 |
| 18 | 13,800,000 | 13,950,000 | 185 | 325 | 0.216653004 | CYBA,IL17C,MVD,ZC3H18,ZFPM1,ENSBTAG00000018507 |
| 18 | 13,875,000 | 14,025,000 | 186 | 582 | 0.125481206 | CTU2,CYBA,IL17C,MVD,PIEZO1,RNF166,SNAI3,ZC3H18 |
| 18 | 13,950,000 | 14,100,000 | 187 | 728 | -0.066437161 | APRT,CBFA2T3,CDT1,CTU2,GALNS,PABPN1L,PIEZO1,RNF166,SNAI3,TRAPPC2L |
| 18 | 14,025,000 | 14,175,000 | 188 | 441 | -0.836722021 | APRT,CBFA2T3,CDT1,GALNS,PABPN1L,TRAPPC2L |
| 18 | 14,100,000 | 14,250,000 | 189 | 411 | -0.950534271 | CBFA2T3 |
| 18 | 14,175,000 | 14,325,000 | 190 | 335 | -0.586611826 | ACSF3,CDH15,MGC157263 |
| 18 | 14,250,000 | 14,400,000 | 191 | 227 | -0.687709687 | ACSF3,ANKRD11,CDH15,MGC157263 |
| 18 | 14,325,000 | 14,475,000 | 192 | 329 | -0.847782954 | ANKRD11,MGC157263 |
| 18 | 14,400,000 | 14,550,000 | 193 | 434 | -1.089877444 | ANKRD11,CPNE7,RPL13,SPG7 |
| 18 | 14,475,000 | 14,625,000 | 194 | 418 | -1.308057538 | CDK10,CHMP1A,CPNE7,DPEP1,RPL13,SPATA2L,SPG7 |
| 18 | 14,550,000 | 14,700,000 | 195 | 252 | -1.283444695 | CDK10,CHMP1A,CPNE7,DPEP1,FANCA,SPATA2L,SPIRE2,VPS9D1,ZNF276 |
| 18 | 14,625,000 | 14,775,000 | 196 | 190 | 0.543520151 | FANCA,MC1R,SPIRE2,TCF25,TUBB3,VPS9D1,ZNF276 |
| 18 | 14,700,000 | 14,850,000 | 197 | 129 | 0.714954934 | DBNDD1,DEF8,GAS8,MC1R,SPIRE2,TCF25,TUBB3,ENSBTAG00000038051 |
| 18 | 14,775,000 | 14,925,000 | 198 | 132 | -1.239651948 | DBNDD1,DEF8,GAS8,ENSBTAG00000038051 |
| 18 | 14,850,000 | 15,000,000 | 199 | 261 | -0.108094212 | SHCBP1 |
| 18 | 14,925,000 | 15,075,000 | 200 | 506 | -0.751243922 | ORC6,SHCBP1,VPS35 |
| 18 | 15,000,000 | 15,150,000 | 201 | 636 | -2.145427191 | MYLK3,ORC6,VPS35,ENSBTAG00000023726 |
| 18 | 15,075,000 | 15,225,000 | 202 | 438 | -2.48019228 | C18H16orf87,MYLK3,ORC6,ENSBTAG00000023726 |
| 18 | 15,150,000 | 15,300,000 | 203 | 653 | 0.957947719 | C18H16orf87 |
| 18 | 15,225,000 | 15,375,000 | 204 | 1066 | 1.057408046 | GPT2 |
| 18 | 15,300,000 | 15,450,000 | 205 | 1170 | 0.393583965 | DNAJA2,GPT2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 18 | 15,375,000 | 15,525,000 | 206 | 1235 | 0.545871173 | DNAJA2,GPT2 |
| 18 | 15,450,000 | 15,600,000 | 207 | 1091 | 1.028757163 | NETO2 |
| 18 | 15,525,000 | 15,675,000 | 208 | 784 | 0.737452248 | ITFG1,NETO2 |
| 18 | 15,600,000 | 15,750,000 | 209 | 945 | 0.821089352 | ITFG1 |
| 18 | 15,675,000 | 15,825,000 | 210 | 1369 | 0.213499739 | ITFG1 |
| 18 | 15,750,000 | 15,900,000 | 211 | 1421 | -0.546288867 | ITFG1 |
| 18 | 15,825,000 | 15,975,000 | 212 | 1310 | 0.160728142 | ITFG1,PHKB |
| 18 | 15,900,000 | 16,050,000 | 213 | 976 | 0.700059695 | ITFG1,PHKB |
| 18 | 15,975,000 | 16,125,000 | 214 | 582 | 0.655140708 | PHKB |
| 18 | 16,050,000 | 16,200,000 | 215 | 577 | 0.615983728 | PHKB |
| 18 | 16,125,000 | 16,275,000 | 216 | 937 | -0.086546659 | PHKB |
| 18 | 16,200,000 | 16,350,000 | 217 | 1041 | 0.281377712 | |
| 18 | 16,275,000 | 16,425,000 | 218 | 772 | 1.101266355 | |
| 18 | 16,350,000 | 16,500,000 | 219 | 885 | 0.565400541 | |
| 18 | 16,425,000 | 16,575,000 | 220 | 1135 | 0.440210418 | ENSBTAG00000044191 |
| 18 | 16,500,000 | 16,650,000 | 221 | 1087 | 0.78845978 | ENSBTAG00000044191 |
| 18 | 16,575,000 | 16,725,000 | 222 | 901 | 0.089989759 | ENSBTAG00000010858,ENSBTAG00000044191 |
| 18 | 16,650,000 | 16,800,000 | 223 | 588 | -1.645778405 | LONP2,ENSBTAG00000010858 |
| 18 | 16,725,000 | 16,875,000 | 224 | 580 | -0.18755967 | LONP2,SIAH1,ENSBTAG00000010858 |
| 18 | 16,800,000 | 16,950,000 | 225 | 640 | -0.146507349 | LONP2,SIAH1 |
| 18 | 16,875,000 | 17,025,000 | 226 | 679 | -2.395809204 | |
| 18 | 16,950,000 | 17,100,000 | 227 | 624 | -2.438375454 | N4BP1 |
| 18 | 17,025,000 | 17,175,000 | 228 | 674 | -0.339441523 | N4BP1 |
| 18 | 17,100,000 | 17,250,000 | 229 | 961 | -0.546331729 | |
| 18 | 17,175,000 | 17,325,000 | 230 | 941 | -0.267132759 | |
| 18 | 17,250,000 | 17,400,000 | 231 | 973 | 0.375456861 | |
| 18 | 17,325,000 | 17,475,000 | 232 | 1268 | -1.658187558 | |
| 18 | 17,400,000 | 17,550,000 | 233 | 1156 | -2.133029537 | |
| 18 | 17,475,000 | 17,625,000 | 234 | 804 | 0.167578493 | |
| 18 | 17,550,000 | 17,700,000 | 235 | 1116 | -0.164879513 | |
| 18 | 17,625,000 | 17,775,000 | 236 | 982 | -0.372978203 | |
| 18 | 17,700,000 | 17,850,000 | 237 | 532 | -1.095693466 | CBLN1 |
| 18 | 17,775,000 | 17,925,000 | 238 | 563 | -2.067135442 | C18H16orf78,CBLN1 |
| 18 | 17,850,000 | 18,000,000 | 239 | 862 | -0.319292116 | C18H16orf78 |
| 18 | 17,925,000 | 18,075,000 | 240 | 975 | 0.33294933 | C18H16orf78,ZNF423 |
| 18 | 18,000,000 | 18,150,000 | 241 | 1018 | -2.32897945 | ZNF423 |
| 18 | 18,075,000 | 18,225,000 | 242 | 1081 | -2.433329347 | ZNF423 |
| 18 | 18,150,000 | 18,300,000 | 243 | 823 | -0.585375975 | ZNF423 |
| 18 | 18,225,000 | 18,375,000 | 244 | 690 | -0.655320823 | ZNF423 |
| 18 | 18,300,000 | 18,450,000 | 245 | 572 | -0.073895221 | ZNF423 |
| 18 | 18,375,000 | 18,525,000 | 246 | 462 | 1.309346115 | ZNF423 |
| 18 | 18,450,000 | 18,600,000 | 247 | 442 | 0.412523086 | CNEP1R1,HEATR3 |
| 18 | 18,525,000 | 18,675,000 | 248 | 530 | -1.14756648 | CNEP1R1,HEATR3 |
| 18 | 18,600,000 | 18,750,000 | 249 | 481 | -1.938534511 | ADCY7,HEATR3,PAPD5 |
| 18 | 18,675,000 | 18,825,000 | 250 | 459 | -1.814133761 | ADCY7,BRD7,PAPD5 |
| 18 | 18,750,000 | 18,900,000 | 251 | 468 | -0.680333417 | ADCY7,BRD7 |
| 18 | 18,825,000 | 18,975,000 | 252 | 407 | -0.88709379 | BRD7 |
| 18 | 18,900,000 | 19,050,000 | 253 | 475 | -1.428418336 | NKD1 |
| 18 | 18,975,000 | 19,125,000 | 254 | 482 | -1.522054095 | NKD1 |
| 18 | 19,050,000 | 19,200,000 | 255 | 477 | -4.451609862 | NKD1,NOD2,SNX20 |
| 18 | 19,125,000 | 19,275,000 | 256 | 389 | -6.330801796 | CYLD,NOD2,SNX20 |
| 18 | 19,200,000 | 19,350,000 | 257 | 442 | -3.909573386 | CYLD,NOD2 |
| 18 | 19,275,000 | 19,425,000 | 258 | 724 | -1.466720156 | CYLD |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------|
| 18 | 19,350,000 | 19,500,000 | 259 | 738 | -0.005011725 | |
| 18 | 19,425,000 | 19,575,000 | 260 | 883 | 0.321266742 | |
| 18 | 19,500,000 | 19,650,000 | 261 | 1002 | -0.111221372 | SALL1 |
| 18 | 19,575,000 | 19,725,000 | 262 | 896 | -0.367621635 | SALL1 |
| 18 | 19,650,000 | 19,800,000 | 263 | 1076 | 0.412919 | SALL1 |
| 18 | 19,725,000 | 19,875,000 | 264 | 1045 | 1.072480212 | |
| 18 | 19,800,000 | 19,950,000 | 265 | 1194 | 0.809147772 | |
| 18 | 19,875,000 | 20,025,000 | 266 | 1234 | 0.545383447 | |
| 18 | 19,950,000 | 20,100,000 | 267 | 929 | 0.995525021 | |
| 18 | 20,025,000 | 20,175,000 | 268 | 944 | 0.75115352 | |
| 18 | 20,100,000 | 20,250,000 | 269 | 1009 | -0.471525525 | |
| 18 | 20,175,000 | 20,325,000 | 270 | 784 | -0.233814878 | NKX6-2 |
| 18 | 20,250,000 | 20,400,000 | 271 | 597 | -0.646243918 | NKX6-2 |
| 18 | 20,325,000 | 20,475,000 | 272 | 720 | -1.316381422 | |
| 18 | 20,400,000 | 20,550,000 | 273 | 987 | -1.174001877 | |
| 18 | 20,475,000 | 20,625,000 | 274 | 753 | -1.158232051 | |
| 18 | 20,550,000 | 20,700,000 | 275 | 283 | -1.447088568 | |
| 18 | 20,625,000 | 20,775,000 | 276 | 596 | -0.379028032 | |
| 18 | 20,700,000 | 20,850,000 | 277 | 739 | -0.04577736 | |
| 18 | 20,775,000 | 20,925,000 | 278 | 575 | 0.061424107 | |
| 18 | 20,850,000 | 21,000,000 | 279 | 548 | 0.158463323 | |
| 18 | 20,925,000 | 21,075,000 | 280 | 466 | 0.442199127 | TOX3 |
| 18 | 21,000,000 | 21,150,000 | 281 | 529 | 1.099899553 | TOX3 |
| 18 | 21,075,000 | 21,225,000 | 282 | 824 | 1.031466635 | TOX3 |
| 18 | 21,150,000 | 21,300,000 | 283 | 1044 | 0.394859525 | |
| 18 | 21,225,000 | 21,375,000 | 284 | 805 | -0.157419542 | |
| 18 | 21,300,000 | 21,450,000 | 285 | 494 | -0.860315468 | |
| 18 | 21,375,000 | 21,525,000 | 286 | 645 | 0.07805303 | |
| 18 | 21,450,000 | 21,600,000 | 287 | 673 | 0.469491079 | |
| 18 | 21,525,000 | 21,675,000 | 288 | 571 | 0.015901686 | |
| 18 | 21,600,000 | 21,750,000 | 289 | 521 | -0.61668422 | CHD9 |
| 18 | 21,675,000 | 21,825,000 | 290 | 358 | -0.165015361 | CHD9 |
| 18 | 21,750,000 | 21,900,000 | 291 | 400 | -0.53106589 | CHD9,RBL2 |
| 18 | 21,825,000 | 21,975,000 | 292 | 769 | -0.739994365 | AKTIP,CHD9,RBL2 |
| 18 | 21,900,000 | 22,050,000 | 293 | 789 | -0.462915413 | AKTIP,RBL2,RPGRIP1L |
| 18 | 21,975,000 | 22,125,000 | 294 | 533 | 0.146219107 | FTO,RPGRIP1L |
| 18 | 22,050,000 | 22,200,000 | 295 | 730 | 0.391264879 | FTO,RPGRIP1L |
| 18 | 22,125,000 | 22,275,000 | 296 | 853 | 0.291676805 | FTO |
| 18 | 22,200,000 | 22,350,000 | 297 | 706 | 0.01631361 | FTO |
| 18 | 22,275,000 | 22,425,000 | 298 | 626 | 0.299277392 | FTO |
| 18 | 22,350,000 | 22,500,000 | 299 | 492 | 0.899268706 | FTO |
| 18 | 22,425,000 | 22,575,000 | 300 | 507 | 0.622862762 | FTO |
| 18 | 22,500,000 | 22,650,000 | 301 | 754 | 0.410136898 | FTO |
| 18 | 22,575,000 | 22,725,000 | 302 | 812 | 0.415648938 | IRX3 |
| 18 | 22,650,000 | 22,800,000 | 303 | 715 | 0.171183064 | IRX3 |
| 18 | 22,725,000 | 22,875,000 | 304 | 762 | 0.48410217 | |
| 18 | 22,800,000 | 22,950,000 | 305 | 600 | 0.517233808 | |
| 18 | 22,875,000 | 23,025,000 | 306 | 355 | -1.434521773 | |
| 18 | 22,950,000 | 23,100,000 | 307 | 387 | -0.774134495 | |
| 18 | 23,025,000 | 23,175,000 | 308 | 747 | -1.020821227 | |
| 18 | 23,100,000 | 23,250,000 | 309 | 855 | -1.381174314 | |
| 18 | 23,175,000 | 23,325,000 | 310 | 496 | -0.428464458 | IRX5 |
| 18 | 23,250,000 | 23,400,000 | 311 | 706 | -1.043026296 | IRX5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 23,325,000 | 23,475,000 | 312 | 916 | -0.387750457 | |
| 18 | 23,400,000 | 23,550,000 | 313 | 756 | 0.775651018 | |
| 18 | 23,475,000 | 23,625,000 | 314 | 905 | -0.256819567 | |
| 18 | 23,550,000 | 23,700,000 | 315 | 921 | -0.590892887 | IRX6 |
| 18 | 23,625,000 | 23,775,000 | 316 | 865 | -0.721100568 | IRX6 |
| 18 | 23,700,000 | 23,850,000 | 317 | 989 | -0.822618422 | MMP2 |
| 18 | 23,775,000 | 23,925,000 | 318 | 808 | -1.360023297 | LPCAT2,MMP2 |
| 18 | 23,850,000 | 24,000,000 | 319 | 639 | -4.45229341 | LPCAT2,MMP2,SLC6A2 |
| 18 | 23,925,000 | 24,075,000 | 320 | 466 | -3.717072542 | CES1,LPCAT2,SLC6A2,ENSBTAG00000001851 |
| 18 | 24,000,000 | 24,150,000 | 321 | 533 | 0.64158753 | CES1,MT1A,MT1E,MT2,MT3,SLC6A2,ENSBTAG00000001851 |
| 18 | 24,075,000 | 24,225,000 | 322 | 621 | -0.588452609 | BBS2,MT1A,MT1E,MT2,MT3,MT4,ENSBTAG00000001851 |
| 18 | 24,150,000 | 24,300,000 | 323 | 536 | -3.35945236 | AMFR,BBS2,MT4,NUDT21,OGFOD1 |
| 18 | 24,225,000 | 24,375,000 | 324 | 732 | -0.698909017 | AMFR,BBS2,GNAO1,NUDT21,OGFOD1 |
| 18 | 24,300,000 | 24,450,000 | 325 | 632 | 1.141471541 | AMFR,GNAO1 |
| 18 | 24,375,000 | 24,525,000 | 326 | 395 | 0.763152355 | GNAO1 |
| 18 | 24,450,000 | 24,600,000 | 327 | 288 | 0.736731797 | GNAO1 |
| 18 | 24,525,000 | 24,675,000 | 328 | 292 | 0.870179144 | |
| 18 | 24,600,000 | 24,750,000 | 329 | 583 | 1.107408383 | |
| 18 | 24,675,000 | 24,825,000 | 330 | 905 | 1.246886161 | CES5A |
| 18 | 24,750,000 | 24,900,000 | 331 | 761 | 1.040511207 | BREH1,CES5A,NUP93 |
| 18 | 24,825,000 | 24,975,000 | 332 | 394 | 0.143998919 | BREH1,NUP93 |
| 18 | 24,900,000 | 25,050,000 | 333 | 309 | -0.677804365 | HERPUD1,NUP93,SLC12A3 |
| 18 | 24,975,000 | 25,125,000 | 334 | 595 | 0.22943408 | HERPUD1,NUP93,SLC12A3 |
| 18 | 25,050,000 | 25,200,000 | 335 | 675 | 0.182492135 | HERPUD1,NLRC5 |
| 18 | 25,125,000 | 25,275,000 | 336 | 665 | -0.062452717 | CPNE2,NIP30,NLRC5 |
| 18 | 25,200,000 | 25,350,000 | 337 | 673 | 0.576603659 | ARL2BP,CPNE2,NIP30,PLLP,RSPRY1 |
| 18 | 25,275,000 | 25,425,000 | 338 | 661 | 1.087084075 | ARL2BP,NIP30,PLLP,RSPRY1 |
| 18 | 25,350,000 | 25,500,000 | 339 | 635 | 1.060793172 | CCL22,CX3CL1 |
| 18 | 25,425,000 | 25,575,000 | 340 | 625 | 0.75054733 | CCL17,CCL22,CIAPIN1,COQ9,CX3CL1,DOK4,POLR2C |
| 18 | 25,500,000 | 25,650,000 | 341 | 897 | 0.915542033 | CCDC102A,CCL17,CIAPIN1,COQ9,DOK4,GPR114,POLR2C |
| 18 | 25,575,000 | 25,725,000 | 342 | 873 | 0.531649954 | CCDC102A,GPR114,ENSBTAG00000038141,ENSBTAG00000046323 |
| 18 | 25,650,000 | 25,800,000 | 343 | 811 | -0.073636758 | CCDC135,GPR97,KATNB1,ENSBTAG00000038141,ENSBTAG00000046323 |
| 18 | 25,725,000 | 25,875,000 | 344 | 794 | 0.377372673 | CCDC135,GPR97,KATNB1,KIFC3 |
| 18 | 25,800,000 | 25,950,000 | 345 | 688 | 0.188858191 | CNGB1,KATNB1,KIFC3 |
| 18 | 25,875,000 | 26,025,000 | 346 | 529 | 0.163445778 | CNGB1,MMP15,TEPP,USB1,ZNF319 |
| 18 | 25,950,000 | 26,100,000 | 347 | 499 | 0.068902786 | C18H16orf80,CNGB1,CSNK2A2,MMP15,TEPP,USB1,ZNF319 |
| 18 | 26,025,000 | 26,175,000 | 348 | 535 | -0.400138894 | C18H16orf80,CCDC113,CSNK2A2,MMP15 |
| 18 | 26,100,000 | 26,250,000 | 349 | 686 | -0.286640453 | CCDC113,CSNK2A2,KLKBL4 |
| 18 | 26,175,000 | 26,325,000 | 350 | 1015 | -1.160811636 | CCDC113,GINS3,KLKBL4 |
| 18 | 26,250,000 | 26,400,000 | 351 | 903 | -1.825272966 | CNOT1,GINS3,NDRG4,SETD6 |
| 18 | 26,325,000 | 26,475,000 | 352 | 596 | -1.509433537 | CNOT1,NDRG4,SETD6 |
| 18 | 26,400,000 | 26,550,000 | 353 | 459 | -1.063846984 | CNOT1,GOT2,SLC38A7 |
| 18 | 26,475,000 | 26,625,000 | 354 | 1001 | 0.624867226 | GOT2,SLC38A7 |
| 18 | 26,550,000 | 26,700,000 | 355 | 1434 | 0.807307875 | GOT2 |
| 18 | 26,625,000 | 26,775,000 | 356 | 976 | 0.288952741 | |
| 18 | 26,700,000 | 26,850,000 | 357 | 699 | 0.122860575 | |
| 18 | 26,775,000 | 26,925,000 | 358 | 812 | -0.028077558 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 18 | 26,850,000 | 27,000,000 | 359 | 1009 | 0.155489291 | |
| 18 | 26,925,000 | 27,075,000 | 360 | 1351 | 0.329608387 | |
| 18 | 27,000,000 | 27,150,000 | 361 | 1225 | -0.032120788 | |
| 18 | 27,075,000 | 27,225,000 | 362 | 1086 | 0.021015431 | |
| 18 | 27,150,000 | 27,300,000 | 363 | 971 | -0.004295523 | |
| 18 | 27,225,000 | 27,375,000 | 364 | 924 | 0.087259109 | |
| 18 | 27,300,000 | 27,450,000 | 365 | 1443 | 0.229159084 | |
| 18 | 27,375,000 | 27,525,000 | 366 | 1947 | 0.590173644 | |
| 18 | 27,450,000 | 27,600,000 | 367 | 1957 | 0.340231031 | |
| 18 | 27,525,000 | 27,675,000 | 368 | 1606 | -1.601646705 | |
| 18 | 27,600,000 | 27,750,000 | 369 | 1529 | -2.866536331 | |
| 18 | 27,675,000 | 27,825,000 | 370 | 1240 | -1.693778744 | |
| 18 | 27,750,000 | 27,900,000 | 371 | 1037 | -0.742339397 | |
| 18 | 27,825,000 | 27,975,000 | 372 | 967 | -0.762420211 | |
| 18 | 27,900,000 | 28,050,000 | 373 | 901 | -3.32912723 | |
| 18 | 27,975,000 | 28,125,000 | 374 | 720 | -3.861690029 | |
| 18 | 28,050,000 | 28,200,000 | 375 | 662 | -0.441013082 | |
| 18 | 28,125,000 | 28,275,000 | 376 | 1142 | -1.806227386 | |
| 18 | 28,200,000 | 28,350,000 | 377 | 1235 | -1.579714552 | |
| 18 | 28,275,000 | 28,425,000 | 378 | 1100 | 0.395174273 | |
| 18 | 28,350,000 | 28,500,000 | 379 | 894 | 0.512320256 | ENSBTAG00000046851 |
| 18 | 28,425,000 | 28,575,000 | 380 | 941 | -0.545059285 | ENSBTAG00000046851 |
| 18 | 28,500,000 | 28,650,000 | 381 | 1244 | -0.784894765 | |
| 18 | 28,575,000 | 28,725,000 | 382 | 1118 | -1.312717259 | |
| 18 | 28,650,000 | 28,800,000 | 383 | 1235 | -2.979469275 | |
| 18 | 28,725,000 | 28,875,000 | 384 | 1055 | -2.476942442 | |
| 18 | 28,800,000 | 28,950,000 | 385 | 946 | 0.609470521 | |
| 18 | 28,875,000 | 29,025,000 | 386 | 966 | 0.850656781 | |
| 18 | 28,950,000 | 29,100,000 | 387 | 736 | 0.369993922 | |
| 18 | 29,025,000 | 29,175,000 | 388 | 1005 | 0.572232636 | |
| 18 | 29,100,000 | 29,250,000 | 389 | 856 | 0.542224701 | |
| 18 | 29,175,000 | 29,325,000 | 390 | 648 | 0.002394755 | |
| 18 | 29,250,000 | 29,400,000 | 391 | 1269 | 0.068351767 | |
| 18 | 29,325,000 | 29,475,000 | 392 | 1689 | 0.202374065 | ENSBTAG00000046749 |
| 18 | 29,400,000 | 29,550,000 | 393 | 1104 | 0.318436911 | CDH8,ENSBTAG00000046749 |
| 18 | 29,475,000 | 29,625,000 | 394 | 680 | 0.290094719 | CDH8,ENSBTAG00000046749 |
| 18 | 29,550,000 | 29,700,000 | 395 | 640 | 0.677330348 | CDH8 |
| 18 | 29,625,000 | 29,775,000 | 396 | 444 | 0.920673756 | CDH8 |
| 18 | 29,700,000 | 29,850,000 | 397 | 430 | 1.332024613 | CDH8 |
| 18 | 29,775,000 | 29,925,000 | 398 | 469 | 1.100950109 | CDH8 |
| 18 | 29,850,000 | 30,000,000 | 399 | 739 | -1.388315963 | |
| 18 | 29,925,000 | 30,075,000 | 400 | 996 | -0.405622132 | |
| 18 | 30,000,000 | 30,150,000 | 401 | 1203 | 0.80085254 | |
| 18 | 30,075,000 | 30,225,000 | 402 | 1231 | 0.555484553 | |
| 18 | 30,150,000 | 30,300,000 | 403 | 1290 | 0.399844409 | |
| 18 | 30,225,000 | 30,375,000 | 404 | 1199 | 0.376740533 | |
| 18 | 30,300,000 | 30,450,000 | 405 | 1185 | 0.736185058 | |
| 18 | 30,375,000 | 30,525,000 | 406 | 1405 | 0.506312666 | |
| 18 | 30,450,000 | 30,600,000 | 407 | 1059 | 0.220005425 | |
| 18 | 30,525,000 | 30,675,000 | 408 | 828 | 0.642814051 | |
| 18 | 30,600,000 | 30,750,000 | 409 | 1055 | 1.271014818 | |
| 18 | 30,675,000 | 30,825,000 | 410 | 1059 | 1.399874568 | |
| 18 | 30,750,000 | 30,900,000 | 411 | 650 | 1.387187273 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 30,825,000 | 30,975,000 | 412 | 502 | 1.316119744 | |
| 18 | 30,900,000 | 31,050,000 | 413 | 349 | 1.119548833 | |
| 18 | 30,975,000 | 31,125,000 | 414 | 269 | 1.289919637 | |
| 18 | 31,050,000 | 31,200,000 | 415 | 333 | 1.442073213 | |
| 18 | 31,125,000 | 31,275,000 | 416 | 559 | 1.482860502 | |
| 18 | 31,200,000 | 31,350,000 | 417 | 784 | 1.430754205 | |
| 18 | 31,275,000 | 31,425,000 | 418 | 874 | 1.161595273 | |
| 18 | 31,350,000 | 31,500,000 | 419 | 1027 | 0.79804282 | |
| 18 | 31,425,000 | 31,575,000 | 420 | 911 | 0.395184431 | |
| 18 | 31,500,000 | 31,650,000 | 421 | 611 | -1.521222528 | |
| 18 | 31,575,000 | 31,725,000 | 422 | 407 | -2.680212678 | |
| 18 | 31,650,000 | 31,800,000 | 423 | 678 | -0.626106688 | |
| 18 | 31,725,000 | 31,875,000 | 424 | 1068 | -0.155158673 | |
| 18 | 31,800,000 | 31,950,000 | 425 | 1060 | 0.26753299 | |
| 18 | 31,875,000 | 32,025,000 | 426 | 720 | 0.051827975 | |
| 18 | 31,950,000 | 32,100,000 | 427 | 524 | -0.305134131 | |
| 18 | 32,025,000 | 32,175,000 | 428 | 448 | 0.5666996 | |
| 18 | 32,100,000 | 32,250,000 | 429 | 801 | 0.887079009 | |
| 18 | 32,175,000 | 32,325,000 | 430 | 1230 | 0.693020802 | |
| 18 | 32,250,000 | 32,400,000 | 431 | 1063 | -0.165117137 | |
| 18 | 32,325,000 | 32,475,000 | 432 | 926 | -0.6175678 | |
| 18 | 32,400,000 | 32,550,000 | 433 | 760 | -0.012176999 | |
| 18 | 32,475,000 | 32,625,000 | 434 | 652 | -0.581250776 | |
| 18 | 32,550,000 | 32,700,000 | 435 | 505 | -1.56439134 | |
| 18 | 32,625,000 | 32,775,000 | 436 | 568 | -0.85190144 | |
| 18 | 32,700,000 | 32,850,000 | 437 | 616 | -1.226884277 | CDH11 |
| 18 | 32,775,000 | 32,925,000 | 438 | 425 | -1.066122582 | CDH11 |
| 18 | 32,850,000 | 33,000,000 | 439 | 437 | 0.172283514 | CDH11 |
| 18 | 32,925,000 | 33,075,000 | 440 | 682 | 0.333013009 | |
| 18 | 33,000,000 | 33,150,000 | 441 | 978 | 0.496160987 | |
| 18 | 33,075,000 | 33,225,000 | 442 | 977 | 0.799614085 | |
| 18 | 33,150,000 | 33,300,000 | 443 | 812 | 0.928007639 | |
| 18 | 33,225,000 | 33,375,000 | 444 | 714 | 0.707819816 | |
| 18 | 33,300,000 | 33,450,000 | 445 | 765 | 1.068861021 | |
| 18 | 33,375,000 | 33,525,000 | 446 | 757 | 1.474945005 | |
| 18 | 33,450,000 | 33,600,000 | 447 | 1215 | 1.411791475 | |
| 18 | 33,525,000 | 33,675,000 | 448 | 1441 | 1.083131667 | |
| 18 | 33,600,000 | 33,750,000 | 449 | 1097 | -0.275385255 | |
| 18 | 33,675,000 | 33,825,000 | 450 | 979 | -1.006227388 | |
| 18 | 33,750,000 | 33,900,000 | 451 | 839 | 0.04091516 | |
| 18 | 33,825,000 | 33,975,000 | 452 | 1056 | 0.082842275 | |
| 18 | 33,900,000 | 34,050,000 | 453 | 1310 | 0.272008329 | |
| 18 | 33,975,000 | 34,125,000 | 454 | 1120 | 0.860484181 | |
| 18 | 34,050,000 | 34,200,000 | 455 | 1112 | 0.636661937 | ENSBTAG00000045692 |
| 18 | 34,125,000 | 34,275,000 | 456 | 1356 | 0.082178733 | CDH5,ENSBTAG00000045692 |
| 18 | 34,200,000 | 34,350,000 | 457 | 880 | -0.093131805 | BEAN1,CDH5,ENSBTAG00000045692 |
| 18 | 34,275,000 | 34,425,000 | 458 | 399 | 0.208910035 | BEAN1,CKLF,TK2 |
| 18 | 34,350,000 | 34,500,000 | 459 | 610 | 0.401797033 | BEAN1,CKLF,CMTM2,CMTM3,CMTM4,TK2 |
| 18 | 34,425,000 | 34,575,000 | 460 | 608 | -0.000695187 | CMTM2,CMTM3,CMTM4 |
| 18 | 34,500,000 | 34,650,000 | 461 | 301 | -0.214828839 | CCDC79,CMTM4,DYNC1LI2,NAE1 |
| 18 | 34,575,000 | 34,725,000 | 462 | 211 | 0.903762073 | CA7,CCDC79,DYNC1LI2,NAE1,PDP2 |
| 18 | 34,650,000 | 34,800,000 | 463 | 311 | 1.015321779 | CA7,CDH16,CES2,CES3,CES4A,FAM96B,NAE1,PDP2,RRAD |

| | | | | | | |
|----|------------|------------|-----|-----|--------------|--|
| 18 | 34,725,000 | 34,875,000 | 464 | 414 | 1.25540718 | CBFB,CDH16,CES2,CES3,CES4A,FAM96B,RRAD |
| 18 | 34,800,000 | 34,950,000 | 465 | 431 | 1.165909325 | C16orf70,CBFB,CES4A,E2F4,EXOC3L1,FBXL8,HSF4,KIAA0895L,NOL3,TRADD |
| 18 | 34,875,000 | 35,025,000 | 466 | 269 | 0.54057266 | C16orf70,E2F4,ELMO3,EXOC3L1,FBXL8,FHOD1,HSF4,KIAA0895L,LRRRC29,NOL3,PLEKHG4,SLC9A5,TMEM208,TRADD |
| 18 | 34,950,000 | 35,100,000 | 467 | 210 | -0.041087726 | E2F4,ELMO3,FHOD1,KCTD19,LRRRC29,LRRRC36,PLEKHG4,SLC9A5,TMEM208 |
| 18 | 35,025,000 | 35,175,000 | 468 | 241 | 0.473098802 | ATP6V0D1,HSD11B2,KCTD19,LRRRC36,PLEKHG4,TPPP3,ZDHHC1,ENSBTAG00000046690 |
| 18 | 35,100,000 | 35,250,000 | 469 | 246 | 0.555815268 | AGRP,ATP6V0D1,FAM65A,HSD11B2,LRRRC36,TPPP3,ZDHHC1,ENSBTAG00000046690 |
| 18 | 35,175,000 | 35,325,000 | 470 | 258 | -0.001215972 | AGRP,ATP6V0D1,CTCF,FAM65A,RLTPR |
| 18 | 35,250,000 | 35,400,000 | 471 | 264 | -0.353335847 | ACD,C16orf86,CTCF,ENKD1,FAM65A,GFOD2,PARD6A,RANBP10,RLTPR |
| 18 | 35,325,000 | 35,475,000 | 472 | 204 | -0.361099437 | ACD,C16orf86,CENPT,ENKD1,GFOD2,PARD6A,RANBP10,RLTPR,THAP11,TSNAXIP1 |
| 18 | 35,400,000 | 35,550,000 | 473 | 192 | -0.303160029 | CENPT,EDC4,LCAT,NUTF2,PSKH1,PSMB10,RANBP10,SLC12A4,THAP11,TSNAXIP1 |
| 18 | 35,475,000 | 35,625,000 | 474 | 231 | -0.294140757 | DDX28,DPEP2,DPEP3,DUS2L,EDC4,LCAT,NUTF2,PSKH1,PSMB10,SLC12A4 |
| 18 | 35,550,000 | 35,700,000 | 475 | 234 | -0.786911202 | DDX28,DPEP2,DPEP3,DUS2L,NFATC3,SLC12A4 |
| 18 | 35,625,000 | 35,775,000 | 476 | 221 | -1.019038572 | DUS2L,ESRP2,NFATC3,PLA2G15,SLC7A6 |
| 18 | 35,700,000 | 35,850,000 | 477 | 241 | -1.399822974 | ESRP2,NFATC3,PLA2G15,PRMT7,SLC7A6,SLC7A6OS,SMPD3 |
| 18 | 35,775,000 | 35,925,000 | 478 | 280 | -1.137446403 | PRMT7,SLC7A6,SLC7A6OS,SMPD3 |
| 18 | 35,850,000 | 36,000,000 | 479 | 275 | -0.089424491 | SMPD3 |
| 18 | 35,925,000 | 36,075,000 | 480 | 352 | -0.411111707 | ZFP90 |
| 18 | 36,000,000 | 36,150,000 | 481 | 405 | -0.288584277 | CDH3,ZFP90 |
| 18 | 36,075,000 | 36,225,000 | 482 | 685 | 0.769015476 | CDH3,E-CADHERIN |
| 18 | 36,150,000 | 36,300,000 | 483 | 765 | 0.893778623 | E-CADHERIN,TANGO6 |
| 18 | 36,225,000 | 36,375,000 | 484 | 396 | 0.691076952 | E-CADHERIN,TANGO6,ENSBTAG00000047471 |
| 18 | 36,300,000 | 36,450,000 | 485 | 254 | 0.337363674 | HAS3,TANGO6,ENSBTAG00000047471 |
| 18 | 36,375,000 | 36,525,000 | 486 | 258 | 0.964255583 | CHTF8,CIRH1A,HAS3,SNTB2,TANGO6 |
| 18 | 36,450,000 | 36,600,000 | 487 | 258 | 1.201136138 | CHTF8,CIRH1A,HAS3,PDF,SNTB2,VPS4A |
| 18 | 36,525,000 | 36,675,000 | 488 | 299 | 1.071169954 | COG8,CYB5B,NIP7,PDF,SNTB2,TERF2,TMED6,VPS4A |
| 18 | 36,600,000 | 36,750,000 | 489 | 370 | 1.212425096 | COG8,CYB5B,NIP7,PDF,TERF2,TMED6 |
| 18 | 36,675,000 | 36,825,000 | 490 | 376 | 0.416461197 | CYB5B |
| 18 | 36,750,000 | 36,900,000 | 491 | 369 | -0.614480054 | NFAT5 |
| 18 | 36,825,000 | 36,975,000 | 492 | 560 | 0.087439497 | NFAT5,NOB1,NQO1,WWP2 |
| 18 | 36,900,000 | 37,050,000 | 493 | 550 | 0.288596759 | NOB1,NQO1,WWP2 |
| 18 | 36,975,000 | 37,125,000 | 494 | 379 | -0.347466224 | PSMD7,WWP2 |
| 18 | 37,050,000 | 37,200,000 | 495 | 362 | -0.549274362 | PSMD7,WWP2 |
| 18 | 37,125,000 | 37,275,000 | 496 | 335 | -0.648271867 | |
| 18 | 37,200,000 | 37,350,000 | 497 | 610 | -0.14962024 | |
| 18 | 37,275,000 | 37,425,000 | 498 | 598 | -0.089956753 | |
| 18 | 37,350,000 | 37,500,000 | 499 | 382 | -2.873608656 | |
| 18 | 37,425,000 | 37,575,000 | 500 | 614 | -1.519099763 | |
| 18 | 37,500,000 | 37,650,000 | 501 | 755 | 0.129157865 | |
| 18 | 37,575,000 | 37,725,000 | 502 | 570 | -1.262181236 | |
| 18 | 37,650,000 | 37,800,000 | 503 | 504 | -2.086451041 | |
| 18 | 37,725,000 | 37,875,000 | 504 | 723 | -0.587191279 | |
| 18 | 37,800,000 | 37,950,000 | 505 | 979 | 0.229038224 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 37,875,000 | 38,025,000 | 506 | 1102 | 0.573131212 | |
| 18 | 37,950,000 | 38,100,000 | 507 | 1093 | -0.716201987 | |
| 18 | 38,025,000 | 38,175,000 | 508 | 885 | -1.1437818 | |
| 18 | 38,100,000 | 38,250,000 | 509 | 722 | -0.096623377 | |
| 18 | 38,175,000 | 38,325,000 | 510 | 898 | 0.528025529 | |
| 18 | 38,250,000 | 38,400,000 | 511 | 977 | 1.042711957 | ZFH3 |
| 18 | 38,325,000 | 38,475,000 | 512 | 857 | 0.764604121 | ZFH3 |
| 18 | 38,400,000 | 38,550,000 | 513 | 671 | 0.666494314 | ZFH3 |
| 18 | 38,475,000 | 38,625,000 | 514 | 613 | 0.758404849 | ZFH3 |
| 18 | 38,550,000 | 38,700,000 | 515 | 667 | 0.675163465 | |
| 18 | 38,625,000 | 38,775,000 | 516 | 626 | 0.561216162 | |
| 18 | 38,700,000 | 38,850,000 | 517 | 541 | 0.425851271 | |
| 18 | 38,775,000 | 38,925,000 | 518 | 451 | 0.245296777 | |
| 18 | 38,850,000 | 39,000,000 | 519 | 745 | -0.21851938 | |
| 18 | 38,925,000 | 39,075,000 | 520 | 989 | -0.088014585 | |
| 18 | 39,000,000 | 39,150,000 | 521 | 921 | 0.139547815 | DHX38,PMFBP1 |
| 18 | 39,075,000 | 39,225,000 | 522 | 764 | 0.43148453 | DHODH,DHX38,HP,PKD1L3,PMFBP1,TXNL4B,ENSBTAG00000019887 |
| 18 | 39,150,000 | 39,300,000 | 523 | 1066 | -0.225185657 | DHODH,DHX38,HP,PKD1L3,TXNL4B,ENSBTAG00000019887 |
| 18 | 39,225,000 | 39,375,000 | 524 | 1067 | -0.524360809 | IST1,PKD1L3,ZNF821 |
| 18 | 39,300,000 | 39,450,000 | 525 | 629 | 0.232068935 | AP1G1,ATXN1L,IST1,PKD1L3,ZNF821,ENSBTAG00000047787 |
| 18 | 39,375,000 | 39,525,000 | 526 | 840 | 0.846255835 | AP1G1,ATXN1L,PHLPP2,ENSBTAG00000047787 |
| 18 | 39,450,000 | 39,600,000 | 527 | 765 | 0.61687056 | AP1G1,MARVELD3,PHLPP2,TAT |
| 18 | 39,525,000 | 39,675,000 | 528 | 572 | 0.460547679 | CHST4,MARVELD3,PHLPP2,TAT |
| 18 | 39,600,000 | 39,750,000 | 529 | 684 | 0.214914997 | CHST4,TAT,ZNF19 |
| 18 | 39,675,000 | 39,825,000 | 530 | 852 | 0.441889614 | CALB2,ZNF19,ENSBTAG00000023617 |
| 18 | 39,750,000 | 39,900,000 | 531 | 1123 | 0.930371195 | CALB2,ZNF19,ENSBTAG00000023617 |
| 18 | 39,825,000 | 39,975,000 | 532 | 1534 | 1.283645662 | CALB2,CMTR2 |
| 18 | 39,900,000 | 40,050,000 | 533 | 1273 | 1.34613528 | CMTR2,HYDIN |
| 18 | 39,975,000 | 40,125,000 | 534 | 707 | 0.070594038 | HYDIN |
| 18 | 40,050,000 | 40,200,000 | 535 | 617 | -0.749364057 | HYDIN |
| 18 | 40,125,000 | 40,275,000 | 536 | 483 | -0.715939601 | HYDIN |
| 18 | 40,200,000 | 40,350,000 | 537 | 1010 | 0.399252297 | HYDIN |
| 18 | 40,275,000 | 40,425,000 | 538 | 1119 | -0.373872582 | HYDIN,PLEKHF1,POP4 |
| 18 | 40,350,000 | 40,500,000 | 539 | 543 | -2.286822699 | PLEKHF1,POP4,ENSBTAG00000020434 |
| 18 | 40,425,000 | 40,575,000 | 540 | 448 | -2.901819631 | CCNE1,PLEKHF1,ENSBTAG00000020434 |
| 18 | 40,500,000 | 40,650,000 | 541 | 438 | -3.174385838 | CCNE1 |
| 18 | 40,575,000 | 40,725,000 | 542 | 669 | -0.28747798 | URI1 |
| 18 | 40,650,000 | 40,800,000 | 543 | 625 | -0.368209072 | URI1 |
| 18 | 40,725,000 | 40,875,000 | 544 | 479 | -0.442911551 | URI1 |
| 18 | 40,800,000 | 40,950,000 | 545 | 674 | -0.757568522 | |
| 18 | 40,875,000 | 41,025,000 | 546 | 630 | -0.426444526 | |
| 18 | 40,950,000 | 41,100,000 | 547 | 511 | -0.533985046 | |
| 18 | 41,025,000 | 41,175,000 | 548 | 543 | -0.415852055 | ZNF536 |
| 18 | 41,100,000 | 41,250,000 | 549 | 613 | -0.02146616 | ZNF536 |
| 18 | 41,175,000 | 41,325,000 | 550 | 748 | -0.055666964 | ZNF536 |
| 18 | 41,250,000 | 41,400,000 | 551 | 686 | 0.285074786 | |
| 18 | 41,325,000 | 41,475,000 | 552 | 665 | 0.417972077 | |
| 18 | 41,400,000 | 41,550,000 | 553 | 1071 | 0.690037425 | |
| 18 | 41,475,000 | 41,625,000 | 554 | 1177 | 0.532462212 | |
| 18 | 41,550,000 | 41,700,000 | 555 | 1009 | 0.715707488 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 18 | 41,625,000 | 41,775,000 | 556 | 1110 | 0.925193357 | |
| 18 | 41,700,000 | 41,850,000 | 557 | 820 | 0.076697731 | |
| 18 | 41,775,000 | 41,925,000 | 558 | 400 | -0.913773762 | |
| 18 | 41,850,000 | 42,000,000 | 559 | 373 | 0.607747085 | TSHZ3 |
| 18 | 41,925,000 | 42,075,000 | 560 | 461 | -0.17874772 | TSHZ3 |
| 18 | 42,000,000 | 42,150,000 | 561 | 661 | -0.181631168 | |
| 18 | 42,075,000 | 42,225,000 | 562 | 728 | -0.023439889 | |
| 18 | 42,150,000 | 42,300,000 | 563 | 729 | 0.415320002 | |
| 18 | 42,225,000 | 42,375,000 | 564 | 963 | 0.751511384 | |
| 18 | 42,300,000 | 42,450,000 | 565 | 825 | 0.348930264 | |
| 18 | 42,375,000 | 42,525,000 | 566 | 659 | -0.00821969 | |
| 18 | 42,450,000 | 42,600,000 | 567 | 795 | 0.301723966 | |
| 18 | 42,525,000 | 42,675,000 | 568 | 854 | 0.060306234 | |
| 18 | 42,600,000 | 42,750,000 | 569 | 859 | 0.351419423 | |
| 18 | 42,675,000 | 42,825,000 | 570 | 905 | 0.173008345 | |
| 18 | 42,750,000 | 42,900,000 | 571 | 983 | -0.103429441 | |
| 18 | 42,825,000 | 42,975,000 | 572 | 638 | -0.032168056 | |
| 18 | 42,900,000 | 43,050,000 | 573 | 401 | 0.097476208 | ZNF507 |
| 18 | 42,975,000 | 43,125,000 | 574 | 571 | -1.18832721 | DPY19L3,ZNF507 |
| 18 | 43,050,000 | 43,200,000 | 575 | 704 | -1.227568524 | DPY19L3,ZNF507 |
| 18 | 43,125,000 | 43,275,000 | 576 | 793 | 0.282754895 | ANKRD27,DPY19L3,PDCD5 |
| 18 | 43,200,000 | 43,350,000 | 577 | 818 | 1.152892288 | ANKRD27,NUDT19,PDCD5,RGS9BP |
| 18 | 43,275,000 | 43,425,000 | 578 | 952 | 1.341284662 | ANKRD27,NUDT19,RGS9BP,TDRD12 |
| 18 | 43,350,000 | 43,500,000 | 579 | 1206 | 0.940191544 | CEP89,SLC7A9,TDRD12 |
| 18 | 43,425,000 | 43,575,000 | 580 | 1017 | -0.982567936 | CEP89,FAAP24,RHPN2,SLC7A9,TDRD12 |
| 18 | 43,500,000 | 43,650,000 | 581 | 834 | -1.84657906 | CEP89,FAAP24,RHPN2 |
| 18 | 43,575,000 | 43,725,000 | 582 | 1235 | 0.244591943 | GPATCH1,RHPN2,WDR88 |
| 18 | 43,650,000 | 43,800,000 | 583 | 1225 | 0.412488512 | GPATCH1,WDR88 |
| 18 | 43,725,000 | 43,875,000 | 584 | 776 | 0.483590286 | LRP3,SLC7A10,WDR88 |
| 18 | 43,800,000 | 43,950,000 | 585 | 745 | 0.155128396 | LRP3,SLC7A10 |
| 18 | 43,875,000 | 44,025,000 | 586 | 809 | 0.200481301 | CEBPG,PEPD |
| 18 | 43,950,000 | 44,100,000 | 587 | 1201 | -0.561086327 | CEBPG,PEPD |
| 18 | 44,025,000 | 44,175,000 | 588 | 1691 | -0.129830722 | PEPD |
| 18 | 44,100,000 | 44,250,000 | 589 | 1613 | 0.488110238 | PEPD |
| 18 | 44,175,000 | 44,325,000 | 590 | 1341 | 0.521331548 | CHST8 |
| 18 | 44,250,000 | 44,400,000 | 591 | 973 | 0.72627229 | CHST8 |
| 18 | 44,325,000 | 44,475,000 | 592 | 562 | 0.643835716 | CHST8,KCTD15 |
| 18 | 44,400,000 | 44,550,000 | 593 | 642 | 0.775624527 | KCTD15 |
| 18 | 44,475,000 | 44,625,000 | 594 | 820 | 0.974400694 | |
| 18 | 44,550,000 | 44,700,000 | 595 | 863 | 1.04805302 | |
| 18 | 44,625,000 | 44,775,000 | 596 | 987 | 0.46957644 | |
| 18 | 44,700,000 | 44,850,000 | 597 | 758 | -0.131430005 | LSM14A |
| 18 | 44,775,000 | 44,925,000 | 598 | 497 | -0.101977149 | KIAA0355,LSM14A |
| 18 | 44,850,000 | 45,000,000 | 599 | 412 | -1.014835007 | GPI,KIAA0355,LSM14A |
| 18 | 44,925,000 | 45,075,000 | 600 | 340 | -4.268745908 | GPI,KIAA0355,PDCD2L,UBA2 |
| 18 | 45,000,000 | 45,150,000 | 601 | 389 | -7.301082955 | GPI,PDCD2L,UBA2,WTIP |
| 18 | 45,075,000 | 45,225,000 | 602 | 514 | -4.565435734 | WTIP |
| 18 | 45,150,000 | 45,300,000 | 603 | 604 | -0.234003129 | |
| 18 | 45,225,000 | 45,375,000 | 604 | 563 | 0.740295855 | ENSBTAG00000045737 |
| 18 | 45,300,000 | 45,450,000 | 605 | 893 | 1.076039458 | ENSBTAG00000045737,ENSBTAG00000047571 |
| 18 | 45,375,000 | 45,525,000 | 606 | 1107 | 1.03708051 | ENSBTAG00000047571 |
| 18 | 45,450,000 | 45,600,000 | 607 | 883 | 0.675467984 | ENSBTAG00000047724 |
| 18 | 45,525,000 | 45,675,000 | 608 | 701 | 0.797880225 | ENSBTAG00000047724 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 45,600,000 | 45,750,000 | 609 | 484 | 0.055979303 | ZNF181,ZNF599,ENSBTAG00000023998 |
| 18 | 45,675,000 | 45,825,000 | 610 | 949 | -0.251777065 | ZNF181,ZNF599,ENSBTAG00000023998 |
| 18 | 45,750,000 | 45,900,000 | 611 | 1125 | -0.313826145 | ZNF792 |
| 18 | 45,825,000 | 45,975,000 | 612 | 670 | -0.455544536 | GRAMD1A,HPN,SCN1B,ZNF792 |
| 18 | 45,900,000 | 46,050,000 | 613 | 650 | 0.075276715 | FXVD3,GRAMD1A,HPN,LGI4,SCN1B |
| 18 | 45,975,000 | 46,125,000 | 614 | 1000 | 0.873241513 | FXVD1,FXVD3,FXVD5,FXVD7,HPN,LGI4 |
| 18 | 46,050,000 | 46,200,000 | 615 | 1132 | 1.191099319 | FAM187B,FXVD1,FXVD5,FXVD7,HAMP,LSR,MAG,USF2,ENSBTAG00000031420 |
| 18 | 46,125,000 | 46,275,000 | 616 | 949 | 0.961743804 | CD22,FAM187B,FFAR1,GPR41,HAMP,LSR,MAG,USF2,ENSBTAG00000031420 |
| 18 | 46,200,000 | 46,350,000 | 617 | 979 | 0.542597581 | CD22,FFAR1,GPR41,GPR43,KRTDAP,MAG,ENSBTAG0000045656 |
| 18 | 46,275,000 | 46,425,000 | 618 | 1177 | 0.597022285 | ATP4A,DMKN,GAPDHS,GPR43,KRTDAP,SBSN,TMEM147,ENSBTAG00000045598,ENSBTAG00000045656 |
| 18 | 46,350,000 | 46,500,000 | 619 | 1171 | 0.129426167 | ATP4A,DMKN,GAPDHS,SBSN,TMEM147,ENSBTAG0000045598 |
| 18 | 46,425,000 | 46,575,000 | 620 | 948 | -0.025834699 | ETV2,HAUS5,PNKD,RBM42 |
| 18 | 46,500,000 | 46,650,000 | 621 | 821 | 0.412833582 | ETV2,HAUS5,IGFLR1,KMT2B,LIN37,PNKD,PSENER,RBM42,U2AF1L4,UPK1A,ZBTB32 |
| 18 | 46,575,000 | 46,725,000 | 622 | 960 | -0.347554585 | ARHGAP33,HSPB6,IGFLR1,KMT2B,LIN37,NPHS1,PRODH2,PROSER3,PSENER,U2AF1L4,UPK1A,ZBTB32 |
| 18 | 46,650,000 | 46,800,000 | 623 | 870 | -0.414668152 | APLP1,ARHGAP33,HCST,HSPB6,KIRREL2,LIN37,NFKBID,NPHS1,PRODH2,PROSER3,TYROBP |
| 18 | 46,725,000 | 46,875,000 | 624 | 619 | 0.761255913 | ALKBH6,APLP1,HCST,KIRREL2,LRFN3,NFKBID,NPHS1,SDHAF1,SYNE4,TYROBP |
| 18 | 46,800,000 | 46,950,000 | 625 | 720 | -0.350668975 | ALKBH6,CLIP3,LRFN3,SDHAF1,SYNE4,THAP8,WDR62 |
| 18 | 46,875,000 | 47,025,000 | 626 | 753 | -1.96010822 | ALKBH6,CAPNS1,CLIP3,COX7A1,OVOL3,POLR2I,TBCB,THAP8,WDR62,ZNF565 |
| 18 | 46,950,000 | 47,100,000 | 627 | 623 | -1.83640511 | CAPNS1,COX7A1,OVOL3,POLR2I,TBCB,WDR62,ZNF565,ZNF567,ENSBTAG00000031687 |
| 18 | 47,025,000 | 47,175,000 | 628 | 1045 | 0.841176405 | ZNF382,ZNF461,ZNF565,ZNF567,ENSBTAG00000031687 |
| 18 | 47,100,000 | 47,250,000 | 629 | 985 | 0.836011435 | ZNF382,ZNF461,ZNF566,ZNF567,ENSBTAG00000033563 |
| 18 | 47,175,000 | 47,325,000 | 630 | 449 | 0.358027204 | ZNF382,ZNF546,ZNF566,ENSBTAG00000033563 |
| 18 | 47,250,000 | 47,400,000 | 631 | 433 | 0.357011175 | ZNF546,ZNF566,ZNF568 |
| 18 | 47,325,000 | 47,475,000 | 632 | 688 | 0.372097974 | ZNF546,ZNF568,ZNF585A,ZNF793,ZNF829 |
| 18 | 47,400,000 | 47,550,000 | 633 | 726 | 0.538217715 | ZNF383,ZNF568,ZNF585A,ZNF793,ZNF829 |
| 18 | 47,475,000 | 47,625,000 | 634 | 806 | -0.400940053 | ZNF383,ZNF527,ZNF569 |
| 18 | 47,550,000 | 47,700,000 | 635 | 851 | -0.616492247 | ZNF527,ZNF569,ZNF570 |
| 18 | 47,625,000 | 47,775,000 | 636 | 539 | 0.154414929 | ZNF345,ZNF420,ZNF569,ZNF570 |
| 18 | 47,700,000 | 47,850,000 | 637 | 600 | 0.639786385 | ZNF345,ZNF420 |
| 18 | 47,775,000 | 47,925,000 | 638 | 672 | 0.542044792 | ZNF345,ENSBTAG00000046367 |
| 18 | 47,850,000 | 48,000,000 | 639 | 658 | 0.79149725 | WDR87,ENSBTAG00000040318,ENSBTAG00000046367 |
| 18 | 47,925,000 | 48,075,000 | 640 | 524 | 0.386008544 | WDR87,ENSBTAG00000040318 |
| 18 | 48,000,000 | 48,150,000 | 641 | 581 | -1.537315515 | SIPA1L3 |
| 18 | 48,075,000 | 48,225,000 | 642 | 709 | -0.576128721 | SIPA1L3 |
| 18 | 48,150,000 | 48,300,000 | 643 | 522 | 0.332322073 | DPF1,PPP1R14A,SIPA1L3,SPINT2 |
| 18 | 48,225,000 | 48,375,000 | 644 | 395 | -2.708793453 | C18H19orf33,DPF1,PPP1R14A,SIPA1L3,SPINT2,YIF1B |
| 18 | 48,300,000 | 48,450,000 | 645 | 427 | -2.140018304 | C18H19orf33,CATSPERG,KCNK6,SPINT2,YIF1B |
| 18 | 48,375,000 | 48,525,000 | 646 | 486 | -0.082487558 | CATSPERG,FAM98C,GGN,KCNK6,PSMD8,RASGRP4,RYR1,SPRED3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 48,450,000 | 48,600,000 | 647 | 702 | -0.22003387 | FAM98C,GGN,PSMD8,RASGRP4,RYR1,SPRED3 |
| 18 | 48,525,000 | 48,675,000 | 648 | 610 | 0.048918091 | ACTN4,EIF3K,MAP4K1,RYR1 |
| 18 | 48,600,000 | 48,750,000 | 649 | 396 | 0.648152807 | ACTN4,CAPN12,EIF3K,MAP4K1,RYR1 |
| 18 | 48,675,000 | 48,825,000 | 650 | 601 | -0.150642623 | ACTN4,CAPN12,ECH1,HNRNPL,LGALS4,ENSBTAG0000031538,ENSBTAG00000046365 |
| 18 | 48,750,000 | 48,900,000 | 651 | 600 | -1.245849639 | CAPN12,CCER2,ECH1,HNRNPL,LGALS4,NFKBIB,RINL,SARS2,SIRT2,ENSBTAG00000031538,ENSBTAG00000046365 |
| 18 | 48,825,000 | 48,975,000 | 652 | 707 | -2.329999951 | CCER2,FBXO17,HNRNPL,MRPS12,NFKBIB,RINL,SARS2,SIRT2 |
| 18 | 48,900,000 | 49,050,000 | 653 | 880 | -1.013243476 | FBXO17,MRPS12,SARS2 |
| 18 | 48,975,000 | 49,125,000 | 654 | 1064 | -0.541946958 | ENSBTAG00000012590 |
| 18 | 49,050,000 | 49,200,000 | 655 | 1024 | -0.275627744 | NCCRP1,PAK4,SYCN,ENSBTAG00000012590 |
| 18 | 49,125,000 | 49,275,000 | 656 | 666 | 1.165120467 | NCCRP1,PAK4,SYCN,ENSBTAG00000047307 |
| 18 | 49,200,000 | 49,350,000 | 657 | 417 | 0.788912827 | GMFG,IFNL1,LRFN1,PAF1,SAMD4B,ENSBTAG00000047307 |
| 18 | 49,275,000 | 49,425,000 | 658 | 333 | 0.573467959 | GMFG,IFNL1,LRFN1,MED29,PAF1,PLEKHG2,RPS16,SAMD4B,SUPT5H,ZFP36 |
| 18 | 49,350,000 | 49,500,000 | 659 | 513 | 0.56332643 | DLL3,EID2,MED29,PAF1,PLEKHG2,RPS16,SAMD4B,SELV,SUPT5H,TIMM50,ZFP36 |
| 18 | 49,425,000 | 49,575,000 | 660 | 852 | -1.060890116 | DLL3,EID2,SELV,SUPT5H,TIMM50,ENSBTAG00000047030 |
| 18 | 49,500,000 | 49,650,000 | 661 | 1166 | -0.131200243 | LEUTX,ENSBTAG00000015260,ENSBTAG00000047030 |
| 18 | 49,575,000 | 49,725,000 | 662 | 708 | 0.903882042 | DYRK1B,FBL,LEUTX,PSMC4,ENSBTAG00000008502,ENSBTAG00000015260 |
| 18 | 49,650,000 | 49,800,000 | 663 | 386 | -0.844575862 | DYRK1B,FBL,FCGBP,PSMC4,ENSBTAG00000008502,ENSBTAG00000018242 |
| 18 | 49,725,000 | 49,875,000 | 664 | 727 | -0.739624868 | FCGBP,MAP3K10,ENSBTAG00000018242 |
| 18 | 49,800,000 | 49,950,000 | 665 | 598 | -0.382210654 | AKT2,CNTD2,MAP3K10,TTC9B |
| 18 | 49,875,000 | 50,025,000 | 666 | 294 | 0.277346719 | AKT2,C19orf47,CNTD2,HIPK4,MAP3K10,PLD3,PRX,TTC9B |
| 18 | 49,950,000 | 50,100,000 | 667 | 387 | -0.114632164 | AKT2,BLVRB,C19orf47,HIPK4,PLD3,PRX,SERTAD1,SERTAD3,SPTBN4 |
| 18 | 50,025,000 | 50,175,000 | 668 | 443 | -0.372052621 | BLVRB,LTBP4,PRX,SERTAD1,SERTAD3,SHKBP1,SPTBN4 |
| 18 | 50,100,000 | 50,250,000 | 669 | 493 | 0.137302394 | LTBP4,NUMBL,SHKBP1,SPTBN4 |
| 18 | 50,175,000 | 50,325,000 | 670 | 625 | 0.066003301 | ADCK4,C19orf54,ITPKC,LTBP4,MIA,NUMBL,SNRPA,ENSBTAG00000009079 |
| 18 | 50,250,000 | 50,400,000 | 671 | 561 | -0.163435047 | ADCK4,C19orf54,CYP2F1,EGLN2,ITPKC,MIA,NUMBL,SNRPA,ENSBTAG00000001350,ENSBTAG00000009079 |
| 18 | 50,325,000 | 50,475,000 | 672 | 485 | 0.128522208 | CYP2F1,EGLN2,ENSBTAG00000001350,ENSBTAG00000003272,ENSBTAG00000047815 |
| 18 | 50,400,000 | 50,550,000 | 673 | 412 | -2.010886752 | ENSBTAG00000003272,ENSBTAG00000047815 |
| 18 | 50,475,000 | 50,625,000 | 674 | 357 | -2.586375979 | C9orf3,CYP2B6 |
| 18 | 50,550,000 | 50,700,000 | 675 | 450 | -0.899987915 | AXL,C9orf3,CYP2B6,CYP2S1 |
| 18 | 50,625,000 | 50,775,000 | 676 | 463 | -0.515681421 | AXL,CCDC97,CYP2S1,HNRNPUL1,TGFB1 |
| 18 | 50,700,000 | 50,850,000 | 677 | 465 | 0.423642961 | ATP5SL,AXL,B3GNT8,B9D2,BCKDHA,CCDC97,EXOSC5,HNRNPUL1,TGFB1,TMEM91 |
| 18 | 50,775,000 | 50,925,000 | 678 | 570 | -0.038557855 | ATP5SL,B3GNT8,B9D2,BCKDHA,ERICH4,EXOSC5,TGFB1,TMEM91 |
| 18 | 50,850,000 | 51,000,000 | 679 | 618 | -0.278636984 | ATP5SL,ERICH4 |
| 18 | 50,925,000 | 51,075,000 | 680 | 562 | -0.198295934 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 51,000,000 | 51,150,000 | 681 | 727 | 0.119429605 | CEACAM1 |
| 18 | 51,075,000 | 51,225,000 | 682 | 690 | 0.267425507 | CEACAM1,HSL |
| 18 | 51,150,000 | 51,300,000 | 683 | 379 | 0.659262503 | CEACAM1,CNFN,HSL,MEGF8,TMEM145 |
| 18 | 51,225,000 | 51,375,000 | 684 | 283 | 0.883024184 | CIC,CNFN,ERF,GSK3A,HSL,MEGF8,PAFAH1B3,PRR19,TMEM145,ZNF526 |
| 18 | 51,300,000 | 51,450,000 | 685 | 315 | 0.259030472 | CIC,DEDD2,ERF,GSK3A,PAFAH1B3,PRR19,TMEM145,ZNF526 |
| 18 | 51,375,000 | 51,525,000 | 686 | 345 | 0.157823745 | DEDD2,GRIK5,POU2F2,ZNF526,ZNF574 |
| 18 | 51,450,000 | 51,600,000 | 687 | 454 | -0.528227971 | ATP1A3,GRIK5,POU2F2,ZNF574 |
| 18 | 51,525,000 | 51,675,000 | 688 | 650 | -0.338763196 | ARHGEF1,ATP1A3,GRIK5,RABAC1 |
| 18 | 51,600,000 | 51,750,000 | 689 | 840 | 0.543071672 | ARHGEF1,ATP1A3,CD79A,DMRTC2,LYPD4,RABAC1,RPS19,ENSBTAG0000006859 |
| 18 | 51,675,000 | 51,825,000 | 690 | 1682 | 0.30790221 | ARHGEF1,CD79A,DMRTC2,LYPD4,RPS19,ENSBTAG0000006859 |
| 18 | 51,750,000 | 51,900,000 | 691 | 1693 | -0.147662094 | CD177,CXCL17,TEX101,ENSBTAG0000006859 |
| 18 | 51,825,000 | 51,975,000 | 692 | 1041 | -1.160815009 | BSP1,BSP3,BSP5,CD177,CXCL17,TEX101 |
| 18 | 51,900,000 | 52,050,000 | 693 | 1221 | 0.829108775 | BSP1,BSP3,BSP5,ETHE1,LYPD3,PHLDB3,TEX101 |
| 18 | 51,975,000 | 52,125,000 | 694 | 1283 | 0.025641977 | ETHE1,LYPD3,PHLDB3,PINLYP,XRCC1,ZNF575 |
| 18 | 52,050,000 | 52,200,000 | 695 | 1061 | -1.728975948 | CADM4,ETHE1,IRGQ,PINLYP,XRCC1,ZNF428,ZNF575,ZNF576 |
| 18 | 52,125,000 | 52,275,000 | 696 | 945 | -0.43453758 | CADM4,IRGC,IRGQ,PLAUR,SMG9,ZNF428,ZNF576,ENSBTAG00000023439,ENSBTAG00000030922 |
| 18 | 52,200,000 | 52,350,000 | 697 | 993 | -0.036022095 | IRGC,KCNN4,LYPD5,PLAUR,SMG9,ENSBTAG00000023439,ENSBTAG00000030922 |
| 18 | 52,275,000 | 52,425,000 | 698 | 826 | -0.365992935 | KCNN4,LYPD5,SMG9,ZNF283,ZNF404 |
| 18 | 52,350,000 | 52,500,000 | 699 | 940 | -0.998187016 | ZNF226,ZNF283,ZNF404,ZNF45 |
| 18 | 52,425,000 | 52,575,000 | 700 | 1251 | -2.745591388 | ZNF226,ZNF235,ZNF45 |
| 18 | 52,500,000 | 52,650,000 | 701 | 823 | -3.621856581 | ZNF180,ZNF226,ZNF235,ENSBTAG00000040209 |
| 18 | 52,575,000 | 52,725,000 | 702 | 705 | 0.480763725 | CEACAM20,ZNF180,ENSBTAG00000040209 |
| 18 | 52,650,000 | 52,800,000 | 703 | 783 | 0.815757381 | CEACAM20,IGSF23,ZNF180 |
| 18 | 52,725,000 | 52,875,000 | 704 | 399 | -0.616694826 | CEACAM19,IGSF23 |
| 18 | 52,800,000 | 52,950,000 | 705 | 439 | -1.068203797 | BCL3,CBLC,CEACAM16,CEACAM19 |
| 18 | 52,875,000 | 53,025,000 | 706 | 607 | 0.875990539 | BCAM,BCL3,CBLC,CEACAM16,PVRL2,TOMM40,ENSBTAG00000047345 |
| 18 | 52,950,000 | 53,100,000 | 707 | 550 | 0.973601974 | APOC2,APOC4,APOE,BCAM,CBLC,CLPTM1,PVRL2,REL B,TOMM40,ENSBTAG00000047345 |
| 18 | 53,025,000 | 53,175,000 | 708 | 521 | 0.52204579 | APOC2,APOC4,APOE,CLASRP,CLPTM1,GEMIN7,PPP1R37,RELB,TOMM40,ZNF296 |
| 18 | 53,100,000 | 53,250,000 | 709 | 486 | 0.057615173 | BLOC1S3,CLASRP,GEMIN7,NKPD1,PPP1R37,RELB,TRAPPC6A,ZNF296 |
| 18 | 53,175,000 | 53,325,000 | 710 | 781 | 0.688122106 | BLOC1S3,EXOC3L2,NKPD1,PPP1R37,TRAPPC6A,ENSBTAG00000030882 |
| 18 | 53,250,000 | 53,400,000 | 711 | 936 | 1.104022862 | CKM,EXOC3L2,MARK4,ENSBTAG00000030882 |
| 18 | 53,325,000 | 53,475,000 | 712 | 750 | 0.979399615 | CD3EAP,CKM,ERCC1,ERCC2,KLC3,MARK4,PPP1R13L |
| 18 | 53,400,000 | 53,550,000 | 713 | 524 | 0.830763812 | CD3EAP,ERCC1,ERCC2,FOSB,KLC3,MGC148938,OPA3,PPP1R13L,RTN2,VASP |
| 18 | 53,475,000 | 53,625,000 | 714 | 294 | -0.064783447 | FOSB,GPR4,MGC148938,OPA3,RTN2,VASP |
| 18 | 53,550,000 | 53,700,000 | 715 | 529 | 0.520941632 | EML2,GIPR,GPR4,OPA3,QPCTL,SNRPD2 |
| 18 | 53,625,000 | 53,775,000 | 716 | 637 | 1.08194911 | DMPK,DMWD,EML2,GIPR,MYPOP,QPCTL,SIX5,SNRPD2 |
| 18 | 53,700,000 | 53,850,000 | 717 | 751 | 1.03892112 | DMPK,DMWD,FOXA3,MYPOP,RSPH6A,SIX5,SYMPK |
| 18 | 53,775,000 | 53,925,000 | 718 | 785 | 1.062896817 | DMWD,FOXA3,NANOS2,NOVA2,RSPH6A,SYMPK |
| 18 | 53,850,000 | 54,000,000 | 719 | 653 | 0.794593777 | CCDC61,HIF3A,IGFL1,NANOS2,NOVA2,PGLYRP1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 53,925,000 | 54,075,000 | 720 | 801 | 0.37734471 | CCDC61,HIF3A,IGFL1,PGLYRP1,PPP5C |
| 18 | 54,000,000 | 54,150,000 | 721 | 936 | 0.568098976 | CCDC8,HIF3A,PNMAL1,PNMAL2,PPP5C,ENSBTAG0000046451 |
| 18 | 54,075,000 | 54,225,000 | 722 | 741 | 0.337691985 | CALM,CCDC8,DACT3,GNG8,PNMAL1,PNMAL2,PRKD2,PTGIR,ENSBTAG00000046451 |
| 18 | 54,150,000 | 54,300,000 | 723 | 571 | -0.62305285 | CALM,DACT3,FKRP,GNG8,PRKD2,PTGIR,STRN4 |
| 18 | 54,225,000 | 54,375,000 | 724 | 757 | -0.256105234 | AP2S1,FKRP,PRKD2,SLC1A5,STRN4 |
| 18 | 54,300,000 | 54,450,000 | 725 | 630 | 0.151176522 | AP2S1,ARHGAP35,SLC1A5 |
| 18 | 54,375,000 | 54,525,000 | 726 | 597 | -0.383176758 | ARHGAP35,NPAS1 |
| 18 | 54,450,000 | 54,600,000 | 727 | 654 | -0.178406706 | ARHGAP35,NPAS1,TMEM160,ZC3H4 |
| 18 | 54,525,000 | 54,675,000 | 728 | 514 | 0.676801179 | NPAS1,SAE1,TMEM160,ZC3H4 |
| 18 | 54,600,000 | 54,750,000 | 729 | 863 | -0.286766904 | CCDC9,SAE1 |
| 18 | 54,675,000 | 54,825,000 | 730 | 1023 | -0.79381768 | C5AR1,CCDC9,DHX34,GPR77 |
| 18 | 54,750,000 | 54,900,000 | 731 | 565 | -1.18765613 | C5AR1,DHX34,GPR77,KPTN,MEIS3,SLC8A2 |
| 18 | 54,825,000 | 54,975,000 | 732 | 523 | -0.049937314 | KPTN,MEIS3,NAPA,SLC8A2,ZNF541 |
| 18 | 54,900,000 | 55,050,000 | 733 | 753 | 1.247294544 | GLTSCR1,NAPA,ZNF541 |
| 18 | 54,975,000 | 55,125,000 | 734 | 723 | 0.841820704 | EHD2,GLTSCR1,GLTSCR2,SEPW1 |
| 18 | 55,050,000 | 55,200,000 | 735 | 750 | -0.083421628 | CRX,EHD2,GLTSCR1,GLTSCR2,SEPW1,SULT2A1,ENSBTAG00000039971 |
| 18 | 55,125,000 | 55,275,000 | 736 | 932 | -0.49692272 | CRX,SULT2A1,ENSBTAG00000039971,ENSBTAG00000040054 |
| 18 | 55,200,000 | 55,350,000 | 737 | 1019 | -0.285527086 | C19orf68,CABP5,ELSPBP1,LIG1,ENSBTAG00000039971,ENSBTAG00000040054 |
| 18 | 55,275,000 | 55,425,000 | 738 | 1074 | 0.856672387 | C19orf68,CABP5,ELSPBP1,LIG1,ENSBTAG00000011119,ENSBTAG00000038322,ENSBTAG00000038986 |
| 18 | 55,350,000 | 55,500,000 | 739 | 987 | 0.870735713 | C19orf68,CCDC114,EMP3,TMEM143,ZNF114,ENSBTAG00000011119,ENSBTAG00000038322,ENSBTAG00000038986 |
| 18 | 55,425,000 | 55,575,000 | 740 | 633 | 0.58705227 | CCDC114,EMP3,GRIN2D,GRWD1,KDEL1,SYNGR4,TMEM143,ZNF114 |
| 18 | 55,500,000 | 55,650,000 | 741 | 636 | 0.538164518 | CYTH2,GRIN2D,GRWD1,KCNJ14,KDEL1,LMTK3,SYNGR4,TMEM143 |
| 18 | 55,575,000 | 55,725,000 | 742 | 931 | 0.267939239 | CYTH2,DBP,FAM83E,GRWD1,KCNJ14,LMTK3,RPL18,SPACA4,SPHK2,SULT2B1 |
| 18 | 55,650,000 | 55,800,000 | 743 | 977 | 0.178158659 | CA11,DBP,FAM83E,FUT2,NTN5,RPL18,SPACA4,SPHK2,SULT2B1,ENSBTAG00000014514 |
| 18 | 55,725,000 | 55,875,000 | 744 | 897 | 0.402468516 | BCAT2,CA11,DBP,FGF21,FUT1,FUT2,IZUMO1,MAMSTR,NTN5,RASIP1,ENSBTAG00000014514 |
| 18 | 55,800,000 | 55,950,000 | 745 | 845 | -0.25176045 | BCAT2,FGF21,FUT1,HSD17B14,IZUMO1,MAMSTR,NUCB1,PLEKHA4,PPP1R15A,RASIP1,TULP2 |
| 18 | 55,875,000 | 56,025,000 | 746 | 831 | 0.097424882 | BAX,BCAT2,DHDH,FTL,GYS1,HSD17B14,NUCB1,PLEKHA4,PPP1R15A,RUVBL2,TULP2 |
| 18 | 55,950,000 | 56,100,000 | 747 | 638 | 0.537412149 | BAX,DHDH,FTL,GYS1,KCNA7,LHB,LIN7B,NTF4,NUCB1,PPFIA3,RUVBL2,SNRNP70 |
| 18 | 56,025,000 | 56,175,000 | 748 | 490 | 0.302870757 | HRC,KCNA7,LHB,LIN7B,NTF4,PPFIA3,RUVBL2,SNRNP70,TRPM4 |
| 18 | 56,100,000 | 56,250,000 | 749 | 755 | 0.147988104 | HRC,PPFIA3,SLC6A16,TRPM4,ENSBTAG00000030502,ENSBTAG00000030505 |
| 18 | 56,175,000 | 56,325,000 | 750 | 957 | 0.214094537 | CCDC155,CD37,DKKL1,SLC6A16,TEAD2,ENSBTAG00000030502,ENSBTAG00000030505 |
| 18 | 56,250,000 | 56,400,000 | 751 | 926 | 0.062253889 | ALDH16A1,CCDC155,CD37,DKKL1,FLT3LG,PIH1D1,PTH2,RPL13A,SLC17A7,SLC6A16,TEAD2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 56,325,000 | 56,475,000 | 752 | 635 | -0.067178883 | ALDH16A1,CCDC155,FCGRT,FLT3LG,NOSIP,PIH1D1,PRR12,PRRG2,PTH2,RCN3,RPL13A,RPS11,SLC17A7 |
| 18 | 56,400,000 | 56,550,000 | 753 | 470 | 0.647022623 | BCL2L12,CPT1C,FCGRT,HRMT1L2,IRF3,NOSIP,PRR12,PRRG2,RCN3,RPS11,RRAS,SCAF1 |
| 18 | 56,475,000 | 56,625,000 | 754 | 562 | 0.844248852 | AP2A1,BCL2L12,CPT1C,FUZ,HRMT1L2,IRF3,PRR12,RRAS,SCAF1,TSKS |
| 18 | 56,550,000 | 56,700,000 | 755 | 484 | 0.688523152 | AKT1S1,AP2A1,CPT1C,FUZ,IL4I1,MED25,PNKP,PTOV1,TBC1D17,TSKS |
| 18 | 56,625,000 | 56,775,000 | 756 | 606 | 0.873946854 | AKT1S1,ATF5,FUZ,IL4I1,MED25,PNKP,PTOV1,TBC1D17,VRK3,ENSBTAG00000016997 |
| 18 | 56,700,000 | 56,850,000 | 757 | 967 | 0.849024654 | ATF5,C18H19ORF41,IL4I1,VRK3,ZNF473,ENSBTAG00000016997 |
| 18 | 56,775,000 | 56,925,000 | 758 | 1391 | 0.836667662 | C18H19ORF41,MYH14,VRK3,ZNF473 |
| 18 | 56,850,000 | 57,000,000 | 759 | 1069 | 0.660190621 | KCNC3,MYH14,NAPSA,NR1H2,ENSBTAG00000048283 |
| 18 | 56,925,000 | 57,075,000 | 760 | 639 | -0.808251882 | EMC10,FAM71E1,KCNC3,MYBPC2,MYH14,NAPSA,NR1H2,POLD1,ENSBTAG00000043953,ENSBTAG00000048283 |
| 18 | 57,000,000 | 57,150,000 | 761 | 837 | -0.384002981 | ASPDH,EMC10,FAM71E1,JOSD2,LRRC4B,MYBPC2,NR1H2,POLD1,ENSBTAG00000043953 |
| 18 | 57,075,000 | 57,225,000 | 762 | 828 | -0.025609307 | ASPDH,C19orf81,EMC10,JOSD2,LRRC4B,SHANK1,SYT3 |
| 18 | 57,150,000 | 57,300,000 | 763 | 941 | -0.123539677 | C19orf81,CLEC11A,SHANK1,SYT3 |
| 18 | 57,225,000 | 57,375,000 | 764 | 1013 | 0.352143688 | ACPT,CLEC11A,KLK1,KLK15,KLK4,MGC137708,SHANK1 |
| 18 | 57,300,000 | 57,450,000 | 765 | 963 | 1.104143837 | ACPT,KLK1,KLK10,KLK15,KLK4,KLK5,KLK6,KLK7,KLK8,KLK9,MGC137708 |
| 18 | 57,375,000 | 57,525,000 | 766 | 894 | 0.53566706 | CTU1,KLK10,KLK11,KLK12,KLK13,KLK14,KLK5,KLK6,KLK7,KLK8,KLK9 |
| 18 | 57,450,000 | 57,600,000 | 767 | 1164 | 0.158716237 | CEACAM18,CTU1,KLK10,KLK11,KLK12,KLK13,KLK14,ENSBTAG00000004608,ENSBTAG00000037537 |
| 18 | 57,525,000 | 57,675,000 | 768 | 1834 | -0.390691044 | CEACAM18,ENSBTAG00000004608,ENSBTAG00000030440,ENSBTAG00000037537,ENSBTAG00000037699,ENSBTAG00000037710,ENSBTAG00000047301 |
| 18 | 57,600,000 | 57,750,000 | 769 | 2188 | -0.410676905 | SIGLECL1,ENSBTAG00000030440,ENSBTAG00000037699,ENSBTAG00000037710,ENSBTAG00000038526,ENSBTAG00000047301 |
| 18 | 57,675,000 | 57,825,000 | 770 | 1531 | -0.249668134 | CLDND2,ETFB,IGLON5,LIM2,NKG7,SIGLECL1,VSIG10L,ENSBTAG00000037699,ENSBTAG00000038526 |
| 18 | 57,750,000 | 57,900,000 | 771 | 1202 | 0.660106741 | CLDND2,ETFB,IGLON5,LIM2,NKG7,VSIG10L,ENSBTAG0000008851,ENSBTAG0000008852,ENSBTAG00000038526,ENSBTAG00000047675 |
| 18 | 57,825,000 | 57,975,000 | 772 | 1517 | 0.422649821 | LIM2,ZNF175,ENSBTAG0000008851,ENSBTAG0000008852,ENSBTAG00000023365,ENSBTAG00000035868,ENSBTAG00000045880,ENSBTAG00000047675 |
| 18 | 57,900,000 | 58,050,000 | 773 | 1441 | -0.181286991 | HAS1,ZNF175,ENSBTAG00000019227,ENSBTAG00000023365,ENSBTAG00000035868,ENSBTAG00000045880,ENSBTAG00000048204 |
| 18 | 57,975,000 | 58,125,000 | 774 | 1294 | -0.236298063 | HAS1,ENSBTAG00000014593,ENSBTAG00000019227,ENSBTAG00000035868,ENSBTAG00000039111,ENSBTAG00000039491,ENSBTAG00000048204 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 58,050,000 | 58,200,000 | 775 | 1087 | 0.649569654 | ZNF432,ZNF613,ZNF614,ENSBTAG00000014593,ENSBTAG000000037906,ENSBTAG000000039111,ENSBTAG000039491 |
| 18 | 58,125,000 | 58,275,000 | 776 | 1184 | 0.459553531 | ZNF350,ZNF432,ZNF613,ZNF614,ENSBTAG00000037906 |
| 18 | 58,200,000 | 58,350,000 | 777 | 1470 | 0.437222993 | ZNF350,ENSBTAG00000037906 |
| 18 | 58,275,000 | 58,425,000 | 778 | 1705 | 0.9226376 | |
| 18 | 58,350,000 | 58,500,000 | 779 | 2050 | 0.647222157 | PPP2R1A,VN1R4 |
| 18 | 58,425,000 | 58,575,000 | 780 | 1785 | 0.595520254 | PPP2R1A,VN1R4,ENSBTAG00000046472,ENSBTAG000047617 |
| 18 | 58,500,000 | 58,650,000 | 781 | 1173 | 0.323539397 | ENSBTAG00000046472,ENSBTAG00000046510,ENSBTAG00000047617,ENSBTAG00000047761,ENSBTAG000047791 |
| 18 | 58,575,000 | 58,725,000 | 782 | 1138 | -0.665254386 | ENSBTAG00000030470,ENSBTAG00000038903,ENSBTAG00000046510,ENSBTAG00000047761,ENSBTAG000047791 |
| 18 | 58,650,000 | 58,800,000 | 783 | 1437 | -0.257629742 | ENSBTAG00000030470,ENSBTAG00000038125,ENSBTAG00000038903,ENSBTAG00000047761 |
| 18 | 58,725,000 | 58,875,000 | 784 | 1456 | 0.105343813 | ENSBTAG00000017651,ENSBTAG00000030470,ENSBTAG00000038125 |
| 18 | 58,800,000 | 58,950,000 | 785 | 954 | 0.266221043 | ENSBTAG00000017651 |
| 18 | 58,875,000 | 59,025,000 | 786 | 666 | 0.583830616 | ZNF493,ENSBTAG00000017651 |
| 18 | 58,950,000 | 59,100,000 | 787 | 700 | 0.067493948 | ZNF493,ENSBTAG00000033604 |
| 18 | 59,025,000 | 59,175,000 | 788 | 951 | 0.198979523 | ENSBTAG00000033604,ENSBTAG00000045571 |
| 18 | 59,100,000 | 59,250,000 | 789 | 1140 | 0.335452675 | ENSBTAG00000037440,ENSBTAG00000045571 |
| 18 | 59,175,000 | 59,325,000 | 790 | 888 | 0.045741136 | ENSBTAG00000037440 |
| 18 | 59,250,000 | 59,400,000 | 791 | 876 | 0.432970806 | ENSBTAG00000011052,ENSBTAG00000030454 |
| 18 | 59,325,000 | 59,475,000 | 792 | 1094 | 0.350343251 | ENSBTAG00000011052,ENSBTAG00000030454 |
| 18 | 59,400,000 | 59,550,000 | 793 | 937 | 0.261681307 | ENSBTAG00000011052 |
| 18 | 59,475,000 | 59,625,000 | 794 | 994 | 1.300085648 | |
| 18 | 59,550,000 | 59,700,000 | 795 | 1155 | 1.297765008 | ENSBTAG00000040411 |
| 18 | 59,625,000 | 59,775,000 | 796 | 948 | 1.029084626 | ENSBTAG00000040411 |
| 18 | 59,700,000 | 59,850,000 | 797 | 844 | 0.822799833 | ENSBTAG00000040411 |
| 18 | 59,775,000 | 59,925,000 | 798 | 825 | 0.499208646 | ENSBTAG00000015899,ENSBTAG00000021433 |
| 18 | 59,850,000 | 60,000,000 | 799 | 638 | 0.413881685 | ENSBTAG00000015899,ENSBTAG00000021433 |
| 18 | 59,925,000 | 60,075,000 | 800 | 540 | 1.106763022 | ENSBTAG00000011844,ENSBTAG00000021433 |
| 18 | 60,000,000 | 60,150,000 | 801 | 632 | 1.378904165 | ENSBTAG00000011844,ENSBTAG00000047053 |
| 18 | 60,075,000 | 60,225,000 | 802 | 468 | 1.268830849 | ENSBTAG00000011844,ENSBTAG00000047053 |
| 18 | 60,150,000 | 60,300,000 | 803 | 658 | -0.641517025 | ENSBTAG00000004925,ENSBTAG00000045985 |
| 18 | 60,225,000 | 60,375,000 | 804 | 893 | -0.696642361 | ZNF677,ENSBTAG00000004925,ENSBTAG00000039969,ENSBTAG00000045985 |
| 18 | 60,300,000 | 60,450,000 | 805 | 1080 | -0.606126109 | ZNF677,ENSBTAG00000004925,ENSBTAG00000017993,ENSBTAG00000039969 |
| 18 | 60,375,000 | 60,525,000 | 806 | 1422 | -0.341447817 | ZNF519,ENSBTAG00000017993 |
| 18 | 60,450,000 | 60,600,000 | 807 | 1341 | 0.011391214 | ZNF519,ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000039849 |
| 18 | 60,525,000 | 60,675,000 | 808 | 1248 | 0.426397796 | ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000039849 |
| 18 | 60,600,000 | 60,750,000 | 809 | 1247 | 0.889840672 | ENSBTAG00000034090,ENSBTAG00000038702,ENSBTAG00000045581 |
| 18 | 60,675,000 | 60,825,000 | 810 | 1353 | 0.279838093 | ENSBTAG00000033642,ENSBTAG00000045581 |
| 18 | 60,750,000 | 60,900,000 | 811 | 1760 | -0.123596448 | ENSBTAG00000033642,ENSBTAG00000045581 |
| 18 | 60,825,000 | 60,975,000 | 812 | 2009 | 0.32989595 | ENSBTAG00000038755,ENSBTAG00000045581 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 60,900,000 | 61,050,000 | 813 | 1673 | 0.371254305 | ZNF331,ENSBTAG00000015061,ENSBTAG00000038755,ENSBTAG00000045581 |
| 18 | 60,975,000 | 61,125,000 | 814 | 1661 | 0.384007203 | NLRP12,ZNF331,ENSBTAG00000015061,ENSBTAG000038755 |
| 18 | 61,050,000 | 61,200,000 | 815 | 2008 | 0.038643318 | NLRP12 |
| 18 | 61,125,000 | 61,275,000 | 816 | 2469 | 0.08614275 | NLRP12,ENSBTAG00000000336,ENSBTAG00000040392,ENSBTAG00000046961 |
| 18 | 61,200,000 | 61,350,000 | 817 | 2222 | 0.209663432 | MGC157082,ENSBTAG00000000336,ENSBTAG00000040392,ENSBTAG00000046961 |
| 18 | 61,275,000 | 61,425,000 | 818 | 2217 | 0.623055374 | MGC157082,ENSBTAG00000009171,ENSBTAG00000014953 |
| 18 | 61,350,000 | 61,500,000 | 819 | 2200 | 0.69046175 | MGC157082,ENSBTAG00000009171,ENSBTAG00000014953 |
| 18 | 61,425,000 | 61,575,000 | 820 | 1716 | 0.549143041 | |
| 18 | 61,500,000 | 61,650,000 | 821 | 1896 | 0.833339229 | ENSBTAG00000014328,ENSBTAG00000047602 |
| 18 | 61,575,000 | 61,725,000 | 822 | 1522 | 0.704517214 | ENSBTAG00000002290,ENSBTAG00000009364,ENSBTAG00000014328,ENSBTAG00000047602 |
| 18 | 61,650,000 | 61,800,000 | 823 | 1414 | -0.592630645 | ENSBTAG00000002290,ENSBTAG00000009364 |
| 18 | 61,725,000 | 61,875,000 | 824 | 1803 | -0.32486386 | ENSBTAG00000013345,ENSBTAG00000015987 |
| 18 | 61,800,000 | 61,950,000 | 825 | 1699 | -0.341728315 | ENSBTAG00000013345,ENSBTAG00000015139,ENSBTAG00000015987 |
| 18 | 61,875,000 | 62,025,000 | 826 | 1708 | 0.326172054 | MYADM,ENSBTAG00000015139 |
| 18 | 61,950,000 | 62,100,000 | 827 | 1408 | 0.818201164 | CACNG7,CACNG8,MYADM,PRKCG,ENSBTAG00000015139 |
| 18 | 62,025,000 | 62,175,000 | 828 | 1352 | 0.651969209 | CACNG6,CACNG7,CACNG8,PRKCG,VSTM1 |
| 18 | 62,100,000 | 62,250,000 | 829 | 1635 | 0.547093747 | CACNG6,NLRP9,VSTM1,ENSBTAG00000023349 |
| 18 | 62,175,000 | 62,325,000 | 830 | 1050 | 0.173361644 | EPN1,NLRP9,ENSBTAG00000023349,ENSBTAG00000040294 |
| 18 | 62,250,000 | 62,400,000 | 831 | 436 | -0.647220411 | CCDC106,EPN1,FIZ1,U2AF2,ZNF580,ZNF581,ZNF784,ENSBTAG00000037582,ENSBTAG00000040294 |
| 18 | 62,325,000 | 62,475,000 | 832 | 278 | -1.246709915 | CCDC106,FIZ1,NAT14,SBK2,SSC5D,U2AF2,ZNF580,ZNF581,ZNF784,ENSBTAG00000037582 |
| 18 | 62,400,000 | 62,550,000 | 833 | 305 | -0.344388335 | FIZ1,ISOC2,NAT14,RPL28,SBK2,SHISA7,SSC5D,UBE2S,ZNF628 |
| 18 | 62,475,000 | 62,625,000 | 834 | 333 | 0.567871926 | BRSK1,COX6B2,FAM71E2,IL11,ISOC2,RPL28,SHISA7,SUV420H2,TMEM150B,TMEM190,UBE2S,ZNF628 |
| 18 | 62,550,000 | 62,700,000 | 835 | 626 | 1.032966499 | BRSK1,COX6B2,FAM71E2,HSPBP1,IL11,PPP6R1,PTPRH,SUV420H2,TMEM150B,TMEM190,TMEM86B,ENSBTAG00000044492 |
| 18 | 62,625,000 | 62,775,000 | 836 | 839 | 1.136731731 | BRSK1,DNAAF3,EP8L1,HSPBP1,PPP1R12C,PPP6R1,PTPRH,SYT5,TMEM86B,TNNI3,TNNT1,ENSBTAG00000044492 |
| 18 | 62,700,000 | 62,850,000 | 837 | 1391 | 1.16831195 | DNAAF3,EP8L1,FCAR,KIR2DL5A,PPP1R12C,RDH13,SYT5,TNNI3,TNNT1 |
| 18 | 62,775,000 | 62,925,000 | 838 | 1664 | 1.033676994 | FCAR,KIR2DL5A,NCR1,RDH13,ENSBTAG00000045854,ENSBTAG00000047473,ENSBTAG00000047953,ENSBTAG00000048184 |
| 18 | 62,850,000 | 63,000,000 | 839 | 1526 | 0.549840583 | GP6,KIR2DS1,NCR1,ENSBTAG00000045854,ENSBTAG00000047473,ENSBTAG00000047953,ENSBTAG00000048184 |
| 18 | 62,925,000 | 63,075,000 | 840 | 2067 | 0.35170283 | GP6,KIR2DS1,ENSBTAG00000026080,ENSBTAG00000038797,ENSBTAG00000039413,ENSBTAG00000047953 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 18 | 63,000,000 | 63,150,000 | 841 | 1963 | 0.366476333 | CDC42EP5,LENG8,LENG9,TTYH1,ENSBTAG00000019547,ENSBTAG00000026080,ENSBTAG00000038797,ENSBTAG00000039413 |
| 18 | 63,075,000 | 63,225,000 | 842 | 1297 | 0.480975479 | CDC42EP5,LENG8,LENG9,LILRA4,TTYH1,ENSBTAG000004043,ENSBTAG00000019547,ENSBTAG00000037830,ENSBTAG00000039892,ENSBTAG00000039932 |
| 18 | 63,150,000 | 63,300,000 | 843 | 739 | 0.417758463 | LILRA4,ENSBTAG0000000930,ENSBTAG00000004043,ENSBTAG00000019348,ENSBTAG00000019547,ENSBTAG00000037830,ENSBTAG00000039086,ENSBTAG00000039892,ENSBTAG00000039932,ENSBTAG00000048145 |
| 18 | 63,225,000 | 63,375,000 | 844 | 552 | 0.405083701 | ENSBTAG0000000930,ENSBTAG0000005841,ENSBTAG00000019348,ENSBTAG00000039086,ENSBTAG00000039691,ENSBTAG00000048145 |
| 18 | 63,300,000 | 63,450,000 | 845 | 1052 | 0.344275473 | CNOT3,LENG1,MBOAT7,PRPF31,RPS9,TMC4,TSEN34,ENSBTAG0000005841,ENSBTAG00000039691 |
| 18 | 63,375,000 | 63,525,000 | 846 | 1672 | 0.508369165 | CNOT3,LENG1,MBOAT7,NDUFA3,OSCAR,PRPF31,RPS9,TARM1,TFPT,TMC4,TSEN34,ENSBTAG00000038890 |
| 18 | 63,450,000 | 63,600,000 | 847 | 2306 | 0.805254656 | NDUFA3,OSCAR,PRPF31,TARM1,TFPT,ENSBTAG00000030360,ENSBTAG00000038416,ENSBTAG00000038890 |
| 18 | 63,525,000 | 63,675,000 | 848 | 2403 | 0.710922315 | NLRP13,NLRP5,NLRP8,ENSBTAG00000030360,ENSBTAG00000036215,ENSBTAG00000038416 |
| 18 | 63,600,000 | 63,750,000 | 849 | 1585 | 0.560688279 | NLRP13,NLRP5,NLRP8,ZNF444,ZNF787,ENSBTAG00000034302,ENSBTAG00000036215 |
| 18 | 63,675,000 | 63,825,000 | 850 | 1366 | 0.340144462 | NLRP5,ZNF444,ZNF787,ENSBTAG0000000688,ENSBTAG00000024895,ENSBTAG00000030344,ENSBTAG00000034302,ENSBTAG00000039081,ENSBTAG00000039628,ENSBTAG00000045803,ENSBTAG00000046087,ENSBTAG00000047236 |
| 18 | 63,750,000 | 63,900,000 | 851 | 1522 | -0.008893418 | ZNF667,ENSBTAG0000000688,ENSBTAG00000024895,ENSBTAG00000030344,ENSBTAG00000038022,ENSBTAG00000039081,ENSBTAG00000039628,ENSBTAG00000045803,ENSBTAG00000046087,ENSBTAG00000047236 |
| 18 | 63,825,000 | 63,975,000 | 852 | 1272 | -0.897250688 | ZNF583,ZNF667,ENSBTAG00000030348,ENSBTAG00000037881,ENSBTAG00000038022,ENSBTAG00000046947 |
| 18 | 63,900,000 | 64,050,000 | 853 | 1352 | 0.05427214 | ZFP28,ZNF583,ENSBTAG00000030348,ENSBTAG00000037881,ENSBTAG00000046101,ENSBTAG00000046947 |
| 18 | 63,975,000 | 64,125,000 | 854 | 1476 | 0.599907494 | ZFP28,ENSBTAG00000025288,ENSBTAG00000030348,ENSBTAG00000046101 |
| 18 | 64,050,000 | 64,200,000 | 855 | 1249 | 0.278906037 | ZFP28,ZIM2,ENSBTAG00000025288,ENSBTAG00000038911,ENSBTAG00000045731 |
| 18 | 64,125,000 | 64,275,000 | 856 | 825 | 0.096264061 | MGC157368,PEG3,ZIM2,ENSBTAG00000038326,ENSBTAG00000038911,ENSBTAG00000045731 |
| 18 | 64,200,000 | 64,350,000 | 857 | 474 | -0.380500402 | MGC157368,PEG3,ENSBTAG00000038326 |
| 18 | 64,275,000 | 64,425,000 | 858 | 518 | 0.343086763 | PEG3 |
| 18 | 64,350,000 | 64,500,000 | 859 | 604 | 0.482168629 | |
| 18 | 64,425,000 | 64,575,000 | 860 | 940 | 0.69885267 | |
| 18 | 64,500,000 | 64,650,000 | 861 | 1434 | 0.79289458 | ENSBTAG00000003261,ENSBTAG00000038926 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 18 | 64,575,000 | 64,725,000 | 862 | 1635 | 0.811253095 | ZNF304,ENSBTAG00000003261,ENSBTAG00000003772 1,ENSBTAG000000038926 |
| 18 | 64,650,000 | 64,800,000 | 863 | 1750 | 0.869885249 | ZNF304,ENSBTAG000000011262,ENSBTAG00000003737 5,ENSBTAG000000037721,ENSBTAG000000039341 |
| 18 | 64,725,000 | 64,875,000 | 864 | 1842 | 0.869492802 | ZNF772,ENSBTAG00000000195,ENSBTAG00000001126 2,ENSBTAG000000017613,ENSBTAG000000037375,ENS BTAG000000039341 |
| 18 | 64,800,000 | 64,950,000 | 865 | 1806 | 0.564941525 | ZNF550,ZNF772,ENSBTAG00000000195,ENSBTAG000 00017613 |
| 18 | 64,875,000 | 65,025,000 | 866 | 1689 | 0.36095538 | ZNF550,ZNF772,ENSBTAG000000017613,ENSBTAG000 00037981,ENSBTAG000000048261 |
| 18 | 64,950,000 | 65,100,000 | 867 | 1579 | 0.050213832 | VN1R1,ZNF134,ENSBTAG000000037981,ENSBTAG0000 0048261 |
| 18 | 65,025,000 | 65,175,000 | 868 | 1615 | -0.045927736 | VN1R1,ZNF134,ENSBTAG000000038635 |
| 18 | 65,100,000 | 65,250,000 | 869 | 1779 | -0.337336862 | ZNF211,ENSBTAG000000038635,ENSBTAG00000004016 9 |
| 18 | 65,175,000 | 65,325,000 | 870 | 1767 | -0.276882886 | ZNF211,ZNF551,ZSCAN4,ENSBTAG000000040169 |
| 18 | 65,250,000 | 65,400,000 | 871 | 1560 | -0.008825505 | ZNF551,ZSCAN4 |
| 18 | 65,325,000 | 65,475,000 | 872 | 1075 | -0.170673528 | ZNF814 |
| 18 | 65,400,000 | 65,550,000 | 873 | 885 | -0.28975148 | ZNF814,ENSBTAG000000038715,ENSBTAG00000004044 2 |
| 18 | 65,475,000 | 65,625,000 | 874 | 1111 | -0.45027341 | ZNF154,ENSBTAG000000027787,ENSBTAG00000003871 5,ENSBTAG000000040442 |
| 18 | 65,550,000 | 65,700,000 | 875 | 1315 | 0.32914756 | ZNF135,ZNF154,ZNF606,ENSBTAG000000027787,ENSB TAG000000040442 |
| 18 | 65,625,000 | 65,775,000 | 876 | 1039 | 0.07794662 | ZNF135,ZNF274,ZNF329,ZNF606 |
| 18 | 65,700,000 | 65,850,000 | 877 | 605 | -1.297626087 | A1BG,RPS5,ZNF274,ZNF329,ZNF8 |
| 18 | 65,775,000 | 65,925,000 | 878 | 424 | -0.710707808 | A1BG,RPS5,SLC27A5,ZNF132,ZNF446,ZNF584,ZNF8,E NSBTAG000000039453 |
| 18 | 65,850,000 | 66,000,000 | 879 | 308 | -0.261283601 | CENPBD1,CHMP2A,MZF1,RPS5,SLC27A5,TRIM28,UBE 2M,ZNF132,ZNF446,ZNF584,ENSBTAG000000037595,E NSBTAG000000039453 |
| 18 | 65,925,000 | 66,004,023 | 880 | 170 | -0.063652059 | CENPBD1,CHMP2A,MZF1,SLC27A5,TRIM28,UBE2M,E NSBTAG000000037595 |
| 19 | 0 | 150,000 | 1 | 417 | 0.617964917 | ENSBTAG000000045560,ENSBTAG000000048260 |
| 19 | 75,000 | 225,000 | 2 | 775 | 0.973254768 | ENSBTAG000000045560,ENSBTAG000000048260 |
| 19 | 150,000 | 300,000 | 3 | 875 | 0.881792586 | ENSBTAG000000045560 |
| 19 | 225,000 | 375,000 | 4 | 943 | 1.004440277 | |
| 19 | 300,000 | 450,000 | 5 | 1447 | 1.372122146 | |
| 19 | 375,000 | 525,000 | 6 | 1747 | 1.395165995 | |
| 19 | 450,000 | 600,000 | 7 | 1393 | 1.286765689 | |
| 19 | 525,000 | 675,000 | 8 | 1241 | 1.225352364 | CA10 |
| 19 | 600,000 | 750,000 | 9 | 1075 | 1.30215942 | CA10 |
| 19 | 675,000 | 825,000 | 10 | 1091 | 1.376752859 | CA10 |
| 19 | 750,000 | 900,000 | 11 | 1180 | 1.216703064 | CA10 |
| 19 | 825,000 | 975,000 | 12 | 1350 | 1.041782449 | CA10 |
| 19 | 900,000 | 1,050,000 | 13 | 1478 | 1.301885204 | CA10 |
| 19 | 975,000 | 1,125,000 | 14 | 1147 | 0.61000538 | CA10 |
| 19 | 1,050,000 | 1,200,000 | 15 | 1091 | -0.085540591 | CA10 |
| 19 | 1,125,000 | 1,275,000 | 16 | 1534 | 1.086391994 | CA10 |
| 19 | 1,200,000 | 1,350,000 | 17 | 1556 | 1.350690105 | CA10 |
| 19 | 1,275,000 | 1,425,000 | 18 | 896 | 0.511414247 | CA10 |
| 19 | 1,350,000 | 1,500,000 | 19 | 626 | -2.45921656 | CA10 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------------------------|
| 19 | 1,425,000 | 1,575,000 | 20 | 1112 | -4.765045864 | CA10 |
| 19 | 1,500,000 | 1,650,000 | 21 | 1355 | -4.353214396 | |
| 19 | 1,575,000 | 1,725,000 | 22 | 1342 | -2.450812835 | |
| 19 | 1,650,000 | 1,800,000 | 23 | 1479 | -1.174710362 | |
| 19 | 1,725,000 | 1,875,000 | 24 | 1822 | -0.035314556 | |
| 19 | 1,800,000 | 1,950,000 | 25 | 1893 | 0.601596722 | |
| 19 | 1,875,000 | 2,025,000 | 26 | 2017 | 0.952967333 | |
| 19 | 1,950,000 | 2,100,000 | 27 | 1881 | 0.365436995 | |
| 19 | 2,025,000 | 2,175,000 | 28 | 1100 | -1.089349492 | |
| 19 | 2,100,000 | 2,250,000 | 29 | 607 | -1.122336843 | |
| 19 | 2,175,000 | 2,325,000 | 30 | 555 | -0.119237992 | |
| 19 | 2,250,000 | 2,400,000 | 31 | 576 | -0.04399179 | |
| 19 | 2,325,000 | 2,475,000 | 32 | 621 | 0.440819715 | |
| 19 | 2,400,000 | 2,550,000 | 33 | 1350 | -2.812856652 | |
| 19 | 2,475,000 | 2,625,000 | 34 | 1759 | -2.108020254 | |
| 19 | 2,550,000 | 2,700,000 | 35 | 1438 | -0.271518192 | |
| 19 | 2,625,000 | 2,775,000 | 36 | 1382 | -0.987911112 | |
| 19 | 2,700,000 | 2,850,000 | 37 | 1512 | -0.325632957 | |
| 19 | 2,775,000 | 2,925,000 | 38 | 1832 | 0.068692324 | |
| 19 | 2,850,000 | 3,000,000 | 39 | 2160 | -0.223175822 | |
| 19 | 2,925,000 | 3,075,000 | 40 | 2201 | 0.05518589 | |
| 19 | 3,000,000 | 3,150,000 | 41 | 2185 | -0.365411731 | |
| 19 | 3,075,000 | 3,225,000 | 42 | 2219 | -0.281472347 | |
| 19 | 3,150,000 | 3,300,000 | 43 | 2136 | 0.196719484 | |
| 19 | 3,225,000 | 3,375,000 | 44 | 2100 | 0.22269626 | |
| 19 | 3,300,000 | 3,450,000 | 45 | 2228 | -0.143609577 | IGLV5-52 |
| 19 | 3,375,000 | 3,525,000 | 46 | 2146 | -0.068061014 | IGLV5-52 |
| 19 | 3,450,000 | 3,600,000 | 47 | 1884 | -0.284004024 | |
| 19 | 3,525,000 | 3,675,000 | 48 | 1941 | -0.942831985 | |
| 19 | 3,600,000 | 3,750,000 | 49 | 1872 | -0.37713102 | |
| 19 | 3,675,000 | 3,825,000 | 50 | 1614 | 0.543316822 | |
| 19 | 3,750,000 | 3,900,000 | 51 | 1690 | 0.587639589 | KIF2B |
| 19 | 3,825,000 | 3,975,000 | 52 | 1362 | 0.124262195 | KIF2B,ENSBTAG00000036115 |
| 19 | 3,900,000 | 4,050,000 | 53 | 801 | -2.996580302 | ENSBTAG00000036115 |
| 19 | 3,975,000 | 4,125,000 | 54 | 1017 | -3.001688373 | ENSBTAG00000036115 |
| 19 | 4,050,000 | 4,200,000 | 55 | 1412 | -0.956125925 | |
| 19 | 4,125,000 | 4,275,000 | 56 | 1397 | -0.880138747 | |
| 19 | 4,200,000 | 4,350,000 | 57 | 1242 | -0.46856318 | |
| 19 | 4,275,000 | 4,425,000 | 58 | 1014 | 0.541007083 | |
| 19 | 4,350,000 | 4,500,000 | 59 | 1207 | 0.757185114 | |
| 19 | 4,425,000 | 4,575,000 | 60 | 1500 | 0.440962757 | |
| 19 | 4,500,000 | 4,650,000 | 61 | 1300 | 0.146308743 | |
| 19 | 4,575,000 | 4,725,000 | 62 | 1299 | -1.585067287 | |
| 19 | 4,650,000 | 4,800,000 | 63 | 1386 | -1.558025932 | |
| 19 | 4,725,000 | 4,875,000 | 64 | 1331 | 0.677577583 | |
| 19 | 4,800,000 | 4,950,000 | 65 | 1290 | 0.508918429 | |
| 19 | 4,875,000 | 5,025,000 | 66 | 1036 | 0.018739825 | |
| 19 | 4,950,000 | 5,100,000 | 67 | 988 | -0.976531507 | ENSBTAG00000017221 |
| 19 | 5,025,000 | 5,175,000 | 68 | 1301 | -2.210879622 | ENSBTAG00000017221 |
| 19 | 5,100,000 | 5,250,000 | 69 | 1608 | -1.979648963 | TOM1L1 |
| 19 | 5,175,000 | 5,325,000 | 70 | 1724 | -0.189008234 | COX11,STXBP4,TOM1L1 |
| 19 | 5,250,000 | 5,400,000 | 71 | 1805 | -0.886319783 | COX11,STXBP4,TOM1L1 |
| 19 | 5,325,000 | 5,475,000 | 72 | 1617 | -0.861107962 | STXBP4 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 19 | 5,400,000 | 5,550,000 | 73 | 1342 | -1.124242068 | STXBP4 |
| 19 | 5,475,000 | 5,625,000 | 74 | 1240 | -1.40178072 | STXBP4 |
| 19 | 5,550,000 | 5,700,000 | 75 | 1069 | -1.630975237 | HLF |
| 19 | 5,625,000 | 5,775,000 | 76 | 1177 | -1.253686116 | HLF |
| 19 | 5,700,000 | 5,850,000 | 77 | 1377 | 0.377680043 | HLF,MMD |
| 19 | 5,775,000 | 5,925,000 | 78 | 1325 | 0.835602226 | MMD |
| 19 | 5,850,000 | 6,000,000 | 79 | 1249 | 0.843409618 | |
| 19 | 5,925,000 | 6,075,000 | 80 | 1043 | 1.008438548 | |
| 19 | 6,000,000 | 6,150,000 | 81 | 978 | 0.249574879 | |
| 19 | 6,075,000 | 6,225,000 | 82 | 1507 | -0.014871935 | |
| 19 | 6,150,000 | 6,300,000 | 83 | 1527 | 0.067356814 | TMEM100 |
| 19 | 6,225,000 | 6,375,000 | 84 | 1096 | -0.568930192 | TMEM100,ENSBTAG00000038770,ENSBTAG00000039563,ENSBTAG00000040237 |
| 19 | 6,300,000 | 6,450,000 | 85 | 987 | -0.697437352 | PCTP,ENSBTAG00000038770,ENSBTAG00000039563,ENSBTAG00000040237 |
| 19 | 6,375,000 | 6,525,000 | 86 | 1474 | -0.248171991 | PCTP,ENSBTAG00000039563 |
| 19 | 6,450,000 | 6,600,000 | 87 | 2099 | -0.214132012 | PCTP |
| 19 | 6,525,000 | 6,675,000 | 88 | 2248 | 0.570857844 | |
| 19 | 6,600,000 | 6,750,000 | 89 | 2117 | 1.402025974 | |
| 19 | 6,675,000 | 6,825,000 | 90 | 1662 | 1.362230867 | |
| 19 | 6,750,000 | 6,900,000 | 91 | 1277 | 1.08966481 | |
| 19 | 6,825,000 | 6,975,000 | 92 | 1217 | 0.460678322 | |
| 19 | 6,900,000 | 7,050,000 | 93 | 1470 | -0.049817469 | |
| 19 | 6,975,000 | 7,125,000 | 94 | 1409 | -0.027852339 | |
| 19 | 7,050,000 | 7,200,000 | 95 | 1230 | 0.320351904 | |
| 19 | 7,125,000 | 7,275,000 | 96 | 1273 | 0.108991249 | |
| 19 | 7,200,000 | 7,350,000 | 97 | 1349 | -0.026367604 | ANKFN1 |
| 19 | 7,275,000 | 7,425,000 | 98 | 1217 | 0.373300409 | ANKFN1 |
| 19 | 7,350,000 | 7,500,000 | 99 | 733 | 0.450605403 | ANKFN1,ENSBTAG00000038823 |
| 19 | 7,425,000 | 7,575,000 | 100 | 782 | 0.271160964 | ANKFN1,ENSBTAG00000038823 |
| 19 | 7,500,000 | 7,650,000 | 101 | 1049 | 0.111362643 | NOG,ENSBTAG00000038823 |
| 19 | 7,575,000 | 7,725,000 | 102 | 1187 | 0.365535757 | NOG |
| 19 | 7,650,000 | 7,800,000 | 103 | 1023 | 0.869855792 | |
| 19 | 7,725,000 | 7,875,000 | 104 | 1051 | -1.079906575 | C17orf67 |
| 19 | 7,800,000 | 7,950,000 | 105 | 1034 | -2.371761458 | C17orf67,DGKE,TRIM25 |
| 19 | 7,875,000 | 8,025,000 | 106 | 896 | -0.527683642 | COIL,DGKE,SCPEP1,TRIM25 |
| 19 | 7,950,000 | 8,100,000 | 107 | 1370 | 0.646406111 | COIL,SCPEP1,TRIM25,ENSBTAG00000046559 |
| 19 | 8,025,000 | 8,175,000 | 108 | 1217 | 0.592439276 | SCPEP1,ENSBTAG00000046559 |
| 19 | 8,100,000 | 8,250,000 | 109 | 751 | 0.691033045 | AKAP1 |
| 19 | 8,175,000 | 8,325,000 | 110 | 803 | 0.587242307 | AKAP1 |
| 19 | 8,250,000 | 8,400,000 | 111 | 799 | -0.034999862 | |
| 19 | 8,325,000 | 8,475,000 | 112 | 526 | -0.123298327 | |
| 19 | 8,400,000 | 8,550,000 | 113 | 792 | -0.043874669 | |
| 19 | 8,475,000 | 8,625,000 | 114 | 1290 | 0.308522751 | |
| 19 | 8,550,000 | 8,700,000 | 115 | 1130 | 0.418831484 | KLF5,MSI2 |
| 19 | 8,625,000 | 8,775,000 | 116 | 827 | -0.569749221 | KLF5,MSI2 |
| 19 | 8,700,000 | 8,850,000 | 117 | 843 | -1.104693498 | CCDC182,MSI2 |
| 19 | 8,775,000 | 8,925,000 | 118 | 914 | -1.86519986 | CCDC182,CUEDC1,MRPS23 |
| 19 | 8,850,000 | 9,000,000 | 119 | 876 | -1.302187143 | CUEDC1,MRPS23 |
| 19 | 8,925,000 | 9,075,000 | 120 | 865 | 0.400773594 | CUEDC1,SRSF1,VEZF1 |
| 19 | 9,000,000 | 9,150,000 | 121 | 1014 | -0.105663782 | DYNLL2,SRSF1,VEZF1 |
| 19 | 9,075,000 | 9,225,000 | 122 | 1127 | -0.808698824 | DYNLL2,ENSBTAG00000035001,ENSBTAG0000003742 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 9,150,000 | 9,300,000 | 123 | 1416 | -2.436048291 | ENSBTAG00000035001,ENSBTAG00000037424,ENSBTAG00000045606,ENSBTAG00000047689,ENSBTAG0000047870 |
| 19 | 9,225,000 | 9,375,000 | 124 | 1888 | -0.401558307 | ENSBTAG00000037424,ENSBTAG00000045606,ENSBTAG00000045769,ENSBTAG00000045921,ENSBTAG0000047689,ENSBTAG00000047770,ENSBTAG00000047870 |
| 19 | 9,300,000 | 9,450,000 | 125 | 1867 | 1.086360448 | LPO,MKS1,ENSBTAG00000045769,ENSBTAG00000045921,ENSBTAG00000047770 |
| 19 | 9,375,000 | 9,525,000 | 126 | 1506 | 1.111627507 | BZRAP1,LPO,MKS1,MPO |
| 19 | 9,450,000 | 9,600,000 | 127 | 1328 | 0.895160245 | BZRAP1,LPO,MPO,RNF43,SUPT4H1 |
| 19 | 9,525,000 | 9,675,000 | 128 | 1191 | 0.831144506 | HSF5,MTMR4,RNF43,SUPT4H1 |
| 19 | 9,600,000 | 9,750,000 | 129 | 1076 | 0.543271579 | C17orf47,HSF5,MTMR4,RNF43,SEPT4,TEX14 |
| 19 | 9,675,000 | 9,825,000 | 130 | 1093 | 0.593290327 | C17orf47,MTMR4,SEPT4,TEX14 |
| 19 | 9,750,000 | 9,900,000 | 131 | 901 | 0.202936895 | MGC137055,RAD51C,TEX14,ENSBTAG00000046283 |
| 19 | 9,825,000 | 9,975,000 | 132 | 799 | -0.387650858 | MGC137055,RAD51C,TEX14,ENSBTAG00000046283 |
| 19 | 9,900,000 | 10,050,000 | 133 | 945 | 0.553545661 | RAD51C |
| 19 | 9,975,000 | 10,125,000 | 134 | 1078 | 1.088924976 | |
| 19 | 10,050,000 | 10,200,000 | 135 | 981 | 1.195005824 | PPM1E,TRIM37 |
| 19 | 10,125,000 | 10,275,000 | 136 | 741 | 0.834879479 | PPM1E,TRIM37,ENSBTAG00000025310 |
| 19 | 10,200,000 | 10,350,000 | 137 | 794 | 0.318544976 | SKA2,TRIM37,ENSBTAG00000025310 |
| 19 | 10,275,000 | 10,425,000 | 138 | 1040 | 0.077620063 | GDPD1,PRR11,SKA2,SMG8,TRIM37 |
| 19 | 10,350,000 | 10,500,000 | 139 | 1026 | 0.239617458 | GDPD1,PRR11,SKA2,SMG8 |
| 19 | 10,425,000 | 10,575,000 | 140 | 815 | 0.807948333 | GDPD1,YPEL2 |
| 19 | 10,500,000 | 10,650,000 | 141 | 743 | 0.409255061 | YPEL2 |
| 19 | 10,575,000 | 10,725,000 | 142 | 889 | 0.016323529 | YPEL2 |
| 19 | 10,650,000 | 10,800,000 | 143 | 809 | -0.472081345 | DHX40 |
| 19 | 10,725,000 | 10,875,000 | 144 | 673 | -1.221741593 | CLTC,DHX40 |
| 19 | 10,800,000 | 10,950,000 | 145 | 787 | -1.360513339 | CLTC,DHX40,PTRH2,VMP1 |
| 19 | 10,875,000 | 11,025,000 | 146 | 741 | -0.003016477 | CLTC,PTRH2,VMP1 |
| 19 | 10,950,000 | 11,100,000 | 147 | 811 | 0.591069382 | RPS6KB1,TUBD1,VMP1 |
| 19 | 11,025,000 | 11,175,000 | 148 | 956 | 0.675531637 | RNFT1,RPS6KB1,TUBD1,VMP1 |
| 19 | 11,100,000 | 11,250,000 | 149 | 981 | 0.76868621 | RNFT1,RPS6KB1 |
| 19 | 11,175,000 | 11,325,000 | 150 | 896 | 0.454894547 | MED13 |
| 19 | 11,250,000 | 11,400,000 | 151 | 682 | 0.776130307 | MED13 |
| 19 | 11,325,000 | 11,475,000 | 152 | 718 | 0.809979439 | INTS2,MED13 |
| 19 | 11,400,000 | 11,550,000 | 153 | 682 | 1.003873216 | BRIP1,INTS2,TSPY-M2 |
| 19 | 11,475,000 | 11,625,000 | 154 | 492 | 1.161687074 | BRIP1,TSPY-M2,ENSBTAG00000047777 |
| 19 | 11,550,000 | 11,700,000 | 155 | 728 | 1.059013594 | BRIP1,ENSBTAG00000047777 |
| 19 | 11,625,000 | 11,775,000 | 156 | 1083 | 1.115537793 | BRIP1 |
| 19 | 11,700,000 | 11,850,000 | 157 | 1249 | 1.101483887 | |
| 19 | 11,775,000 | 11,925,000 | 158 | 1086 | 0.716661152 | TBX4 |
| 19 | 11,850,000 | 12,000,000 | 159 | 881 | 0.423246588 | TBX2,TBX4 |
| 19 | 11,925,000 | 12,075,000 | 160 | 754 | 0.07775018 | TBX2 |
| 19 | 12,000,000 | 12,150,000 | 161 | 539 | 0.036125756 | |
| 19 | 12,075,000 | 12,225,000 | 162 | 658 | 0.805352379 | |
| 19 | 12,150,000 | 12,300,000 | 163 | 787 | 0.580722575 | BCAS3,SNRPG |
| 19 | 12,225,000 | 12,375,000 | 164 | 643 | 0.393941457 | BCAS3,SNRPG |
| 19 | 12,300,000 | 12,450,000 | 165 | 716 | 0.939705104 | BCAS3 |
| 19 | 12,375,000 | 12,525,000 | 166 | 829 | 1.247902024 | BCAS3 |
| 19 | 12,450,000 | 12,600,000 | 167 | 520 | 0.956634028 | BCAS3,ENSBTAG00000033841,ENSBTAG00000045964 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 12,525,000 | 12,675,000 | 168 | 266 | -0.68799434 | BCAS3,PPM1D,ENSBTAG00000033841,ENSBTAG0000045964 |
| 19 | 12,600,000 | 12,750,000 | 169 | 828 | -1.406364215 | PPM1D |
| 19 | 12,675,000 | 12,825,000 | 170 | 1118 | -1.571377587 | APPBP2,C17orf64 |
| 19 | 12,750,000 | 12,900,000 | 171 | 667 | -1.391702338 | APPBP2,C17orf64,ENSBTAG00000034433 |
| 19 | 12,825,000 | 12,975,000 | 172 | 461 | -0.248042628 | C17orf64,ENSBTAG00000034433 |
| 19 | 12,900,000 | 13,050,000 | 173 | 463 | 0.663218112 | ENSBTAG00000020089 |
| 19 | 12,975,000 | 13,125,000 | 174 | 471 | 0.722662267 | CA4,ENSBTAG00000020089 |
| 19 | 13,050,000 | 13,200,000 | 175 | 846 | 0.831553487 | CA4,MYO19,PIGW,ZNHIT3,ENSBTAG00000020089 |
| 19 | 13,125,000 | 13,275,000 | 176 | 1117 | 0.263836556 | DHRS11,GGNBP2,MRM1,MYO19,PIGW,ZNHIT3 |
| 19 | 13,200,000 | 13,350,000 | 177 | 1051 | -0.574452765 | DHRS11,GGNBP2,MRM1 |
| 19 | 13,275,000 | 13,425,000 | 178 | 1124 | 0.620896949 | |
| 19 | 13,350,000 | 13,500,000 | 179 | 1174 | 0.74297708 | |
| 19 | 13,425,000 | 13,575,000 | 180 | 1145 | 0.561126032 | ENSBTAG00000000560 |
| 19 | 13,500,000 | 13,650,000 | 181 | 788 | 0.756996059 | AATF,LHX1,ENSBTAG00000000560 |
| 19 | 13,575,000 | 13,725,000 | 182 | 508 | 0.286101152 | AATF,LHX1 |
| 19 | 13,650,000 | 13,800,000 | 183 | 542 | 0.353269416 | AATF,ACACA |
| 19 | 13,725,000 | 13,875,000 | 184 | 747 | 1.162401344 | AATF,ACACA |
| 19 | 13,800,000 | 13,950,000 | 185 | 689 | 1.263172862 | ACACA |
| 19 | 13,875,000 | 14,025,000 | 186 | 519 | 0.791685003 | ACACA,C17orf78 |
| 19 | 13,950,000 | 14,100,000 | 187 | 515 | 0.45474587 | ACACA,C17orf78,DUSP14,TADA2A |
| 19 | 14,025,000 | 14,175,000 | 188 | 567 | -0.531853929 | DUSP14,SYNRG,TADA2A |
| 19 | 14,100,000 | 14,250,000 | 189 | 643 | -0.152760164 | DDX52,DUSP14,SYNRG |
| 19 | 14,175,000 | 14,325,000 | 190 | 654 | 0.790129232 | DDX52,HNF1B,SYNRG |
| 19 | 14,250,000 | 14,400,000 | 191 | 619 | 0.709642865 | HNF1B |
| 19 | 14,325,000 | 14,475,000 | 192 | 1029 | -0.571341915 | HEATR6,HNF1B |
| 19 | 14,400,000 | 14,550,000 | 193 | 1593 | 0.125552518 | HEATR6,ENSBTAG00000025258 |
| 19 | 14,475,000 | 14,625,000 | 194 | 1342 | 0.841429288 | HEATR6,WFDC18,ENSBTAG00000025258,ENSBTAG0000046944,ENSBTAG00000046975 |
| 19 | 14,550,000 | 14,700,000 | 195 | 849 | -0.46339181 | CCL3,CCL4,WFDC18,ENSBTAG00000039504,ENSBTAG00000046944,ENSBTAG00000046975 |
| 19 | 14,625,000 | 14,775,000 | 196 | 923 | -0.359420938 | CCL3,CCL4,ENSBTAG00000003289,ENSBTAG00000010155,ENSBTAG00000039504 |
| 19 | 14,700,000 | 14,850,000 | 197 | 1388 | -0.070622954 | CCL14,CCL16,CCL5,HEATR9,ENSBTAG00000003289,ENSBTAG00000010155 |
| 19 | 14,775,000 | 14,925,000 | 198 | 1081 | -0.428914806 | CCL14,CCL16,CCL5,HEATR9,MMP28,TAF15 |
| 19 | 14,850,000 | 15,000,000 | 199 | 470 | 0.110312916 | C17orf50,GAS2L2,HEATR9,MMP28,RASL10B,TAF15 |
| 19 | 14,925,000 | 15,075,000 | 200 | 410 | 1.202912562 | AP2B1,C17orf50,GAS2L2,MMP28,RASL10B |
| 19 | 15,000,000 | 15,150,000 | 201 | 588 | 0.449700852 | AP2B1,PEX12,SLFN14,ENSBTAG00000019437 |
| 19 | 15,075,000 | 15,225,000 | 202 | 721 | -1.034940114 | AP2B1,PEX12,SLFN14,ENSBTAG00000019437,ENSBTAG00000025219 |
| 19 | 15,150,000 | 15,300,000 | 203 | 1214 | -1.129506361 | FNDC8,NLE1,RAD51D,UNC45B,ENSBTAG00000025219 |
| 19 | 15,225,000 | 15,375,000 | 204 | 1339 | -0.512935801 | FNDC8,NLE1,RAD51D,UNC45B |
| 19 | 15,300,000 | 15,450,000 | 205 | 1023 | -1.156265899 | CCT6B,LIG3,RAD51D,RFFL,ZNF830 |
| 19 | 15,375,000 | 15,525,000 | 206 | 1001 | -1.229752736 | CCT6B,LIG3,RFFL,ZNF830 |
| 19 | 15,450,000 | 15,600,000 | 207 | 1288 | 0.360591654 | CCT6B |
| 19 | 15,525,000 | 15,675,000 | 208 | 1912 | 0.827646873 | |
| 19 | 15,600,000 | 15,750,000 | 209 | 1834 | 1.060244599 | |
| 19 | 15,675,000 | 15,825,000 | 210 | 1232 | -0.018620617 | TMEM132E |
| 19 | 15,750,000 | 15,900,000 | 211 | 1019 | -0.401963896 | TMEM132E |
| 19 | 15,825,000 | 15,975,000 | 212 | 1302 | 0.196928311 | |
| 19 | 15,900,000 | 16,050,000 | 213 | 1687 | -0.740654424 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 15,975,000 | 16,125,000 | 214 | 1643 | -0.654954493 | CCL1 |
| 19 | 16,050,000 | 16,200,000 | 215 | 1643 | -0.073098991 | CCL1,CCL11,CCL8 |
| 19 | 16,125,000 | 16,275,000 | 216 | 1535 | 0.167109446 | CCL11,CCL2,CCL8 |
| 19 | 16,200,000 | 16,350,000 | 217 | 1379 | 1.071259108 | CCL2 |
| 19 | 16,275,000 | 16,425,000 | 218 | 1421 | 1.168932797 | ACCN1 |
| 19 | 16,350,000 | 16,500,000 | 219 | 1415 | 1.164077867 | ACCN1 |
| 19 | 16,425,000 | 16,575,000 | 220 | 1636 | 0.876138575 | ACCN1 |
| 19 | 16,500,000 | 16,650,000 | 221 | 1775 | 0.812898222 | ACCN1 |
| 19 | 16,575,000 | 16,725,000 | 222 | 1192 | 0.603041636 | ACCN1 |
| 19 | 16,650,000 | 16,800,000 | 223 | 1019 | -0.107507018 | ACCN1 |
| 19 | 16,725,000 | 16,875,000 | 224 | 1587 | 0.100244472 | ACCN1 |
| 19 | 16,800,000 | 16,950,000 | 225 | 1321 | 0.257807501 | ACCN1 |
| 19 | 16,875,000 | 17,025,000 | 226 | 976 | 0.688151205 | ACCN1 |
| 19 | 16,950,000 | 17,100,000 | 227 | 1078 | 0.898649797 | ACCN1 |
| 19 | 17,025,000 | 17,175,000 | 228 | 894 | 0.760132464 | ACCN1 |
| 19 | 17,100,000 | 17,250,000 | 229 | 597 | 0.269053546 | ACCN1 |
| 19 | 17,175,000 | 17,325,000 | 230 | 820 | -0.59274324 | ACCN1 |
| 19 | 17,250,000 | 17,400,000 | 231 | 1257 | -0.025899023 | ACCN1 |
| 19 | 17,325,000 | 17,475,000 | 232 | 1258 | 0.6174905 | ACCN1 |
| 19 | 17,400,000 | 17,550,000 | 233 | 1191 | 0.655322653 | ACCN1 |
| 19 | 17,475,000 | 17,625,000 | 234 | 1040 | 0.764214653 | ACCN1,SPACA3,TMEM98 |
| 19 | 17,550,000 | 17,700,000 | 235 | 857 | 0.516569897 | ACCN1,MYO1D,SPACA3,TMEM98 |
| 19 | 17,625,000 | 17,775,000 | 236 | 1113 | 0.275204959 | MYO1D,TMEM98 |
| 19 | 17,700,000 | 17,850,000 | 237 | 1309 | -0.182499963 | MYO1D |
| 19 | 17,775,000 | 17,925,000 | 238 | 1244 | -0.117573049 | MYO1D |
| 19 | 17,850,000 | 18,000,000 | 239 | 844 | -0.057673215 | MYO1D |
| 19 | 17,925,000 | 18,075,000 | 240 | 448 | -1.146427516 | CDK5R1,MYO1D,PSMD11 |
| 19 | 18,000,000 | 18,150,000 | 241 | 444 | -0.515984276 | C17orf75,CDK5R1,MYO1D,PSMD11,ZNF207 |
| 19 | 18,075,000 | 18,225,000 | 242 | 631 | 0.053411532 | C17orf75,RHBDL3,ZNF207 |
| 19 | 18,150,000 | 18,300,000 | 243 | 825 | 0.62099402 | C17orf75,RHBDL3,RHOT1 |
| 19 | 18,225,000 | 18,375,000 | 244 | 776 | 0.083210874 | ADAP2,RHOT1,RNF135 |
| 19 | 18,300,000 | 18,450,000 | 245 | 619 | -0.811414229 | ADAP2,ATAD5,C19H17orf42,RHOT1,RNF135 |
| 19 | 18,375,000 | 18,525,000 | 246 | 544 | -0.570770993 | ADAP2,ATAD5,C19H17orf42,CRLF3,SUZ12 |
| 19 | 18,450,000 | 18,600,000 | 247 | 466 | -0.199507924 | CRLF3,SUZ12,UTP6 |
| 19 | 18,525,000 | 18,675,000 | 248 | 468 | -0.72716298 | COPRS,SUZ12,UTP6 |
| 19 | 18,600,000 | 18,750,000 | 249 | 565 | -0.962048225 | COPRS |
| 19 | 18,675,000 | 18,825,000 | 250 | 767 | -0.727059723 | |
| 19 | 18,750,000 | 18,900,000 | 251 | 819 | -1.060518187 | RAB11FIP4 |
| 19 | 18,825,000 | 18,975,000 | 252 | 642 | -0.974183178 | NF1,RAB11FIP4 |
| 19 | 18,900,000 | 19,050,000 | 253 | 586 | 0.155734545 | EVI2A,EVI2B,NF1,OMG |
| 19 | 18,975,000 | 19,125,000 | 254 | 606 | 0.925775643 | EVI2A,EVI2B,NF1,OMG |
| 19 | 19,050,000 | 19,200,000 | 255 | 587 | 0.72044063 | NF1 |
| 19 | 19,125,000 | 19,275,000 | 256 | 570 | 0.673989306 | NF1 |
| 19 | 19,200,000 | 19,350,000 | 257 | 826 | 0.841059989 | NF1 |
| 19 | 19,275,000 | 19,425,000 | 258 | 742 | 0.852673307 | WSB1 |
| 19 | 19,350,000 | 19,500,000 | 259 | 617 | 0.924302114 | WSB1 |
| 19 | 19,425,000 | 19,575,000 | 260 | 887 | 0.513871719 | KSR1 |
| 19 | 19,500,000 | 19,650,000 | 261 | 860 | -0.019400056 | KSR1,ENSBTAG00000046372 |
| 19 | 19,575,000 | 19,725,000 | 262 | 890 | -0.573497348 | KSR1,ENSBTAG00000046372 |
| 19 | 19,650,000 | 19,800,000 | 263 | 1039 | -1.479924873 | INOS,LGALS9,ENSBTAG00000046372 |
| 19 | 19,725,000 | 19,875,000 | 264 | 1036 | -1.09272817 | INOS,LGALS9,ULBP27 |
| 19 | 19,800,000 | 19,950,000 | 265 | 1001 | -0.77927479 | INOS,ULBP27,ENSBTAG0000001836,ENSBTAG00000023970,ENSBTAG00000046595 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 19,875,000 | 20,025,000 | 266 | 957 | -0.574514603 | INOS,LYRM9,ULBP27,ENSBTAG00000001836,ENSBTA G00000007238,ENSBTAG00000023970,ENSBTAG0000 0046595 |
| 19 | 19,950,000 | 20,100,000 | 267 | 1136 | -1.546805173 | INOS,LYRM9,ENSBTAG00000007238 |
| 19 | 20,025,000 | 20,175,000 | 268 | 1016 | -2.328453196 | LYRM9 |
| 19 | 20,100,000 | 20,250,000 | 269 | 598 | -0.80188669 | NLK |
| 19 | 20,175,000 | 20,325,000 | 270 | 567 | 0.976241582 | NLK |
| 19 | 20,250,000 | 20,400,000 | 271 | 666 | 1.379839597 | IFT20,NLK,POLDIP2,TMEM199,TMEM97,TNFAIP1 |
| 19 | 20,325,000 | 20,475,000 | 272 | 724 | 0.432941987 | IFT20,POLDIP2,SARM1,SEBOX,SLC46A1,TMEM199,TM EM97,TNFAIP1,VTN |
| 19 | 20,400,000 | 20,550,000 | 273 | 633 | -0.696253726 | FOXN1,SARM1,SEBOX,SLC13A2,SLC46A1,TMEM199,V TN |
| 19 | 20,475,000 | 20,625,000 | 274 | 508 | 0.191350526 | ALDOC,FOXN1,KIAA0100,PIGS,SLC13A2,SPAG5,UNC1 19,ENSBTAG00000011984 |
| 19 | 20,550,000 | 20,700,000 | 275 | 387 | 0.945134895 | ALDOC,FOXN1,KIAA0100,PIGS,PROCA1,RAB34,SDF2,S PAG5,SUPT6H,UNC119,ENSBTAG00000011984 |
| 19 | 20,625,000 | 20,775,000 | 276 | 255 | 0.716688796 | FAM222B,KIAA0100,NEK8,PROCA1,RAB34,RPL23A,SD F2,SUPT6H,TLCD1,TRAF4 |
| 19 | 20,700,000 | 20,850,000 | 277 | 414 | -0.356337805 | DHRS13,ERAL1,FAM222B,FLOT2,NEK8,PHF12,RAB34,R PL23A,TLCD1,TRAF4 |
| 19 | 20,775,000 | 20,925,000 | 278 | 618 | 0.66180695 | DHRS13,ERAL1,FAM222B,FLOT2,PHF12,SEZ6 |
| 19 | 20,850,000 | 21,000,000 | 279 | 768 | 1.015859591 | MYO18A,PHF12,PIPOX,SEZ6 |
| 19 | 20,925,000 | 21,075,000 | 280 | 816 | -0.165941858 | MYO18A,PIPOX,SEZ6 |
| 19 | 21,000,000 | 21,150,000 | 281 | 639 | -0.756987027 | COX7C,CRYBA1,MYO18A |
| 19 | 21,075,000 | 21,225,000 | 282 | 468 | 0.456365567 | COX7C,CRYBA1,MYO18A,NUFIP2 |
| 19 | 21,150,000 | 21,300,000 | 283 | 335 | 0.801403217 | CRYBA1,NUFIP2 |
| 19 | 21,225,000 | 21,375,000 | 284 | 253 | 0.258112489 | TAOK1 |
| 19 | 21,300,000 | 21,450,000 | 285 | 300 | 0.06421543 | ABHD15,ANKRD13B,CORO6,GIT1,SSH2,TAOK1,TP53I1 3 |
| 19 | 21,375,000 | 21,525,000 | 286 | 409 | -0.132101676 | ABHD15,ANKRD13B,CORO6,GIT1,SSH2,TP53I13 |
| 19 | 21,450,000 | 21,600,000 | 287 | 578 | 0.61719159 | SSH2 |
| 19 | 21,525,000 | 21,675,000 | 288 | 561 | 1.176908375 | |
| 19 | 21,600,000 | 21,750,000 | 289 | 591 | 1.287180459 | EFCAB5 |
| 19 | 21,675,000 | 21,825,000 | 290 | 773 | 1.152062902 | EFCAB5,NSRP1 |
| 19 | 21,750,000 | 21,900,000 | 291 | 644 | 0.180190633 | BLMH,EFCAB5,NSRP1,SLC6A4 |
| 19 | 21,825,000 | 21,975,000 | 292 | 397 | -0.598541524 | BLMH,NSRP1,SLC6A4,TMIGD1 |
| 19 | 21,900,000 | 22,050,000 | 293 | 501 | -0.158781919 | BLMH,CPD,TMIGD1 |
| 19 | 21,975,000 | 22,125,000 | 294 | 644 | 0.216699387 | CPD,GOSR1 |
| 19 | 22,050,000 | 22,200,000 | 295 | 833 | 0.45050578 | BHLHA9,CPD,GOSR1,TUSC5 |
| 19 | 22,125,000 | 22,275,000 | 296 | 941 | -0.833304104 | BHLHA9,GOSR1,TUSC5 |
| 19 | 22,200,000 | 22,350,000 | 297 | 665 | -0.737242221 | ABR |
| 19 | 22,275,000 | 22,425,000 | 298 | 684 | 0.305132482 | ABR |
| 19 | 22,350,000 | 22,500,000 | 299 | 563 | -0.697784109 | ABR,NXN,TIMM22 |
| 19 | 22,425,000 | 22,575,000 | 300 | 312 | -1.918995634 | ABR,NXN,TIMM22 |
| 19 | 22,500,000 | 22,650,000 | 301 | 676 | -1.703477339 | GLOD4,NXN,RNMTL1 |
| 19 | 22,575,000 | 22,725,000 | 302 | 809 | -2.774203944 | DBIL5,GEMIN4,GLOD4,MGC155170,NXN,RNMTL1,VPS 53 |
| 19 | 22,650,000 | 22,800,000 | 303 | 574 | -3.047061419 | DBIL5,GEMIN4,GLOD4,MGC155170,VPS53 |
| 19 | 22,725,000 | 22,875,000 | 304 | 609 | -0.107930964 | C17orf97,FAM101B,RPH3AL,VPS53 |
| 19 | 22,800,000 | 22,950,000 | 305 | 1135 | 1.281416826 | C17orf97,FAM101B,RPH3AL,VPS53 |
| 19 | 22,875,000 | 23,025,000 | 306 | 1196 | 1.411749761 | RPH3AL |
| 19 | 22,950,000 | 23,100,000 | 307 | 655 | 0.916589442 | DOC2B,RPH3AL,YWHAE |
| 19 | 23,025,000 | 23,175,000 | 308 | 390 | -0.074033996 | CRK,DOC2B,MYO1C,YWHAE |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 23,100,000 | 23,250,000 | 309 | 413 | 0.617328062 | CRK,INPP5K,MYO1C,PITPNA,YWHAE |
| 19 | 23,175,000 | 23,325,000 | 310 | 599 | -0.228063887 | INPP5K,MYO1C,PITPNA,PRPF8,RILP,SCARF1,SLC43A2 |
| 19 | 23,250,000 | 23,400,000 | 311 | 656 | -1.737043978 | PRPF8,RILP,SCARF1,SLC43A2,TLCD2,WDR81 |
| 19 | 23,325,000 | 23,475,000 | 312 | 651 | -2.198466697 | PRPF8,SERPINF1,SERPINF2,SMYD4,TLCD2,WDR81 |
| 19 | 23,400,000 | 23,550,000 | 313 | 724 | -3.606259278 | RPA1,SERPINF1,SERPINF2,SMYD4,WDR81 |
| 19 | 23,475,000 | 23,625,000 | 314 | 660 | -3.905730307 | RPA1,RTN4RL1,SMYD4 |
| 19 | 23,550,000 | 23,700,000 | 315 | 499 | -0.32921041 | DPH1,HIC1,OVCA2,RTN4RL1,SMG6 |
| 19 | 23,625,000 | 23,775,000 | 316 | 526 | -0.002873958 | DPH1,HIC1,OVCA2,SMG6 |
| 19 | 23,700,000 | 23,850,000 | 317 | 544 | -0.420839317 | SMG6 |
| 19 | 23,775,000 | 23,925,000 | 318 | 446 | -0.930087035 | SGSM2,SMG6,SRR,TSR1 |
| 19 | 23,850,000 | 24,000,000 | 319 | 308 | -0.035416753 | METTL16,MNT,SGSM2,SMG6,SRR,TSR1 |
| 19 | 23,925,000 | 24,075,000 | 320 | 276 | 0.487259403 | METTL16,MNT |
| 19 | 24,000,000 | 24,150,000 | 321 | 296 | -0.09798435 | METTL16,PAFAH1B1 |
| 19 | 24,075,000 | 24,225,000 | 322 | 369 | -0.544811493 | CLUH,PAFAH1B1 |
| 19 | 24,150,000 | 24,300,000 | 323 | 562 | -1.857469094 | CLUH,PAFAH1B1 |
| 19 | 24,225,000 | 24,375,000 | 324 | 805 | -0.690665777 | |
| 19 | 24,300,000 | 24,450,000 | 325 | 1180 | -0.210555877 | RAP1GAP2 |
| 19 | 24,375,000 | 24,525,000 | 326 | 1596 | -1.47377917 | OR1G1,RAP1GAP2,ENSBTAG00000008324,ENSBTAG0000008481,ENSBTAG00000040362 |
| 19 | 24,450,000 | 24,600,000 | 327 | 2242 | -0.690312315 | OR1G1,RAP1GAP2,ENSBTAG00000008324,ENSBTAG0000008481,ENSBTAG00000019391,ENSBTAG00000039411,ENSBTAG00000039633,ENSBTAG00000040362,ENSBTAG00000048282 |
| 19 | 24,525,000 | 24,675,000 | 328 | 1969 | 0.127082423 | OR3A1,ENSBTAG00000018221,ENSBTAG00000019391,ENSBTAG00000039411,ENSBTAG00000039633,ENSBTAG00000047049,ENSBTAG00000048099,ENSBTAG00000048282 |
| 19 | 24,600,000 | 24,750,000 | 329 | 1010 | -0.948821961 | OR3A1,ENSBTAG00000018221,ENSBTAG00000032467,ENSBTAG00000037529,ENSBTAG00000038059,ENSBTAG00000045667,ENSBTAG00000046217,ENSBTAG00000046652,ENSBTAG00000046960,ENSBTAG00000047049,ENSBTAG00000048099 |
| 19 | 24,675,000 | 24,825,000 | 330 | 1441 | 0.110164053 | SPATA22,ENSBTAG00000032457,ENSBTAG00000032467,ENSBTAG00000037529,ENSBTAG00000038059,ENSBTAG00000045667,ENSBTAG00000045899,ENSBTAG00000046217,ENSBTAG00000046652,ENSBTAG00000047458 |
| 19 | 24,750,000 | 24,900,000 | 331 | 1593 | 0.224134901 | ASPA,SPATA22,TRPV3,ENSBTAG00000018880,ENSBTAG00000032457,ENSBTAG00000045899,ENSBTAG00000046217,ENSBTAG00000047458 |
| 19 | 24,825,000 | 24,975,000 | 332 | 1144 | -0.303550696 | ASPA,CARKL,CTNS,TAX1BP3,TRPV3,ENSBTAG00000018880 |
| 19 | 24,900,000 | 25,050,000 | 333 | 1223 | -0.352219409 | CARKL,CTNS,EMC6,GSG2,ITGAE,TAX1BP3,ENSBTAG0000015258,ENSBTAG00000018880 |
| 19 | 24,975,000 | 25,125,000 | 334 | 1152 | -0.474345111 | C1orf85,CAMKK1,EMC6,GSG2,ITGAE,TAX1BP3,ENSBTAG00000015258 |
| 19 | 25,050,000 | 25,200,000 | 335 | 1034 | 0.119267022 | ATP2A3,C1orf85,CAMKK1,P2RX1 |
| 19 | 25,125,000 | 25,275,000 | 336 | 1048 | 0.394594472 | ATP2A3,CAMKK1,P2RX1,ZZEF1 |
| 19 | 25,200,000 | 25,350,000 | 337 | 1002 | 0.199563441 | ANKFY1,CYB5D2,ZZEF1 |
| 19 | 25,275,000 | 25,425,000 | 338 | 964 | 0.953089871 | ANKFY1,CYB5D2,UBE2G1,ZZEF1 |
| 19 | 25,350,000 | 25,500,000 | 339 | 838 | 1.40734748 | ANKFY1,UBE2G1 |
| 19 | 25,425,000 | 25,575,000 | 340 | 967 | 1.163873441 | SPNS3,UBE2G1 |
| 19 | 25,500,000 | 25,650,000 | 341 | 1140 | 0.703732986 | MYBBP1A,SPNS2,SPNS3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 25,575,000 | 25,725,000 | 342 | 831 | 0.34657298 | GGT6,MYBBP1A,SMTNL2,SPNS2,SPNS3,TEKT1 |
| 19 | 25,650,000 | 25,800,000 | 343 | 735 | -0.110161154 | FBXO39,GGT6,MYBBP1A,SLC13A5,SMTNL2,TEKT1,XAF1 |
| 19 | 25,725,000 | 25,875,000 | 344 | 657 | -0.201419849 | FBXO39,KIAA0753,MED31,SLC13A5,TXNDC17,XAF1 |
| 19 | 25,800,000 | 25,950,000 | 345 | 428 | 0.079785205 | KIAA0753,MED31,PITPNM3,SLC13A5,TXNDC17,ENSBTAG00000047858 |
| 19 | 25,875,000 | 26,025,000 | 346 | 565 | 0.172689221 | FAM64A,KIAA0753,PITPNM3,ENSBTAG00000047858 |
| 19 | 25,950,000 | 26,100,000 | 347 | 807 | -1.634175969 | AIPL1,FAM64A,PITPNM3 |
| 19 | 26,025,000 | 26,175,000 | 348 | 954 | -1.786490878 | AIPL1,FAM64A |
| 19 | 26,100,000 | 26,250,000 | 349 | 962 | -0.700532973 | |
| 19 | 26,175,000 | 26,325,000 | 350 | 1041 | -0.573420499 | WSCD1 |
| 19 | 26,250,000 | 26,400,000 | 351 | 1438 | -0.217264029 | WSCD1 |
| 19 | 26,325,000 | 26,475,000 | 352 | 1399 | -0.287583092 | |
| 19 | 26,400,000 | 26,550,000 | 353 | 1233 | -0.274072764 | |
| 19 | 26,475,000 | 26,625,000 | 354 | 1388 | -0.410842271 | |
| 19 | 26,550,000 | 26,700,000 | 355 | 1220 | -0.387496487 | DERL2,MIS12,NLRP1,ENSBTAG00000025126 |
| 19 | 26,625,000 | 26,775,000 | 356 | 981 | -0.426152389 | C1QBP,DERL2,DHX33,MIS12,NLRP1,NUP88,RABEP1,RPAIN,ENSBTAG00000025126 |
| 19 | 26,700,000 | 26,850,000 | 357 | 770 | -1.396269171 | C1QBP,DHX33,NUP88,RABEP1,RPAIN |
| 19 | 26,775,000 | 26,925,000 | 358 | 754 | -2.014998865 | RABEP1,SCIMP |
| 19 | 26,850,000 | 27,000,000 | 359 | 733 | -0.678021503 | RABEP1,SCIMP,ZFP3,ENSBTAG00000013906 |
| 19 | 26,925,000 | 27,075,000 | 360 | 604 | 0.067833007 | CAMTA2,ENO3,INCA1,KIF1C,SPAG7,ZFP3,ENSBTAG0000013906 |
| 19 | 27,000,000 | 27,150,000 | 361 | 740 | -0.207566588 | C17orf107,CAMTA2,CHRNE,ENO3,GP1BA,INCA1,KIF1C,MINK1,PFN1,RNF167,SLC25A11,SPAG7 |
| 19 | 27,075,000 | 27,225,000 | 362 | 670 | -0.297155551 | C17orf107,CHRNE,ENO3,GLTPD2,GP1BA,MINK1,PFN1,PLD2,PSMB6,RNF167,SLC25A11,TM4SF5,VMO1 |
| 19 | 27,150,000 | 27,300,000 | 363 | 586 | 0.071823975 | ARRB2,CXCL16,GLTPD2,MED11,MINK1,PELP1,PLD2,PSMB6,TM4SF5,VMO1,ZMYND15 |
| 19 | 27,225,000 | 27,375,000 | 364 | 890 | 0.353828965 | ALOX12E,ALOX15,ARRB2,CXCL16,MED11,PELP1,ZMYND15 |
| 19 | 27,300,000 | 27,450,000 | 365 | 830 | 0.147228287 | ALOX12,ALOX12E,ALOX15,BAP18,BCL6B,PELP1,RNASEK |
| 19 | 27,375,000 | 27,525,000 | 366 | 565 | 0.425495304 | ALOX12,ASGR2,BAP18,BCL6B,CLEC10A,RNASEK,SLC16A11,SLC16A13 |
| 19 | 27,450,000 | 27,600,000 | 367 | 542 | 0.063157964 | ACADVL,ASGR1,ASGR2,BCL6B,CLEC10A,CTDNBP1,DLG4,DVL2,ELP5,GABARAP,PHF23,SLC16A11,SLC16A13 |
| 19 | 27,525,000 | 27,675,000 | 368 | 416 | -1.166638319 | ACADVL,ACAP1,ASGR1,CLDN7,CTDNBP1,DLG4,DVL2,EIF5A,ELP5,GABARAP,GPS2,PHF23,SLC2A4,YBX2,ENSBTAG00000010519,ENSBTAG00000045892 |
| 19 | 27,600,000 | 27,750,000 | 369 | 288 | -3.590729576 | ACAP1,CLDN7,EIF5A,ELP5,GPS2,KCTD11,NLGN2,PLSCR3,SLC2A4,SPEM1,TMEM102,TMEM256,TNK1,YBX2,ENSBTAG00000010519,ENSBTAG00000045892 |
| 19 | 27,675,000 | 27,825,000 | 370 | 329 | -2.104195214 | ACAP1,CHRN1,FGF11,KCTD11,NLGN2,PLSCR3,POLR2A,SPEM1,TMEM102,TMEM256,TNK1,ZBTB4 |
| 19 | 27,750,000 | 27,900,000 | 371 | 636 | 0.155119056 | CHRN1,FGF11,POLR2A,TNFSF12,ZBTB4 |
| 19 | 27,825,000 | 27,975,000 | 372 | 601 | 0.47562557 | ATP1B2,CD68,EIF4A1,FXR2,MPDU1,SAT2,SHBG,SOX15,TNFSF12,TNFSF13,ENSBTAG00000000131 |
| 19 | 27,900,000 | 28,050,000 | 373 | 373 | -0.521589112 | ATP1B2,CD68,DNAH2,EFNB3,EIF4A1,FXR2,MPDU1,SAT2,SHBG,SOX15,TNFSF12,TNFSF13,TP53,WRAP53,ENSBTAG00000000131 |
| 19 | 27,975,000 | 28,125,000 | 374 | 447 | -1.182949808 | ATP1B2,DNAH2,EFNB3,TP53,WRAP53 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 28,050,000 | 28,200,000 | 375 | 382 | -3.164682006 | CHD3,CYB5D1,DNAH2,KDM6B,NAA38,TMEM88 |
| 19 | 28,125,000 | 28,275,000 | 376 | 365 | -4.658957915 | CHD3,CNTROB,CYB5D1,DNAH2,GUCY2D,KCNAB3,KDM6B,NAA38,TMEM88,TRAPPC1 |
| 19 | 28,200,000 | 28,350,000 | 377 | 460 | -4.580610398 | ALOX12B,ALOX15B,CHD3,CNTROB,GUCY2D,KCNAB3,TRAPPC1 |
| 19 | 28,275,000 | 28,425,000 | 378 | 486 | -3.511122617 | ALOX12B,ALOX15B,ALOXE3,GUCY2D,HES7,PER1,VAMP2 |
| 19 | 28,350,000 | 28,500,000 | 379 | 608 | -2.836151108 | ALOXE3,AURKB,C19H17orf59,CTC1,HES7,PER1,PFAS,TMEM107,VAMP2 |
| 19 | 28,425,000 | 28,575,000 | 380 | 663 | -2.93802385 | ARHGEF15,AURKB,C19H17orf59,CTC1,ODF4,PFAS,RANGRF,SLC25A35,TMEM107 |
| 19 | 28,500,000 | 28,650,000 | 381 | 688 | -2.356972337 | ARHGEF15,NDEL1,ODF4,PFAS,RANGRF,RNF222,RPL26,SLC25A35 |
| 19 | 28,575,000 | 28,725,000 | 382 | 755 | -1.497592412 | MYH10,NDEL1,RNF222,RPL26 |
| 19 | 28,650,000 | 28,800,000 | 383 | 754 | -0.903606449 | MYH10,NDEL1 |
| 19 | 28,725,000 | 28,875,000 | 384 | 768 | -0.755420057 | CCDC42,MYH10 |
| 19 | 28,800,000 | 28,950,000 | 385 | 876 | 0.017079865 | CCDC42,MFSD6L,MYH10,PIK3R6 |
| 19 | 28,875,000 | 29,025,000 | 386 | 959 | 0.648649441 | CCDC42,MFSD6L,PIK3R5,PIK3R6 |
| 19 | 28,950,000 | 29,100,000 | 387 | 764 | 0.779954377 | NTN1,PIK3R5,PIK3R6 |
| 19 | 29,025,000 | 29,175,000 | 388 | 688 | 0.618595709 | NTN1 |
| 19 | 29,100,000 | 29,250,000 | 389 | 992 | 0.413386569 | NTN1 |
| 19 | 29,175,000 | 29,325,000 | 390 | 1028 | 0.041031774 | NTN1,STX8 |
| 19 | 29,250,000 | 29,400,000 | 391 | 868 | -0.549112057 | NTN1,STX8 |
| 19 | 29,325,000 | 29,475,000 | 392 | 983 | -0.25368039 | STX8 |
| 19 | 29,400,000 | 29,550,000 | 393 | 1191 | 0.191547464 | STX8,USP43,WDR16 |
| 19 | 29,475,000 | 29,625,000 | 394 | 1394 | 0.348588424 | DHRS7C,GLP2R,STX8,USP43,WDR16,ENSBTAG0000005051 |
| 19 | 29,550,000 | 29,700,000 | 395 | 1474 | 0.476896474 | DHRS7C,GAS7,GLP2R,RCVRN,USP43,ENSBTAG0000005051 |
| 19 | 29,625,000 | 29,775,000 | 396 | 1159 | 0.210033996 | GAS7,GLP2R,RCVRN |
| 19 | 29,700,000 | 29,850,000 | 397 | 947 | 0.389222754 | GAS7 |
| 19 | 29,775,000 | 29,925,000 | 398 | 805 | 0.821489166 | GAS7 |
| 19 | 29,850,000 | 30,000,000 | 399 | 888 | 1.064282589 | GAS7,MYH13 |
| 19 | 29,925,000 | 30,075,000 | 400 | 1156 | 0.889009203 | MYH13,MYHC-FETAL |
| 19 | 30,000,000 | 30,150,000 | 401 | 1027 | 0.535923919 | MYH1,MYH13,MYH2,MYH4,MYHC-FETAL |
| 19 | 30,075,000 | 30,225,000 | 402 | 830 | 0.841637021 | MYH1,MYH2,MYH4 |
| 19 | 30,150,000 | 30,300,000 | 403 | 637 | 0.974286599 | ADPRM,MYH2,MYHC-EMBRYONIC,SCO1 |
| 19 | 30,225,000 | 30,375,000 | 404 | 467 | 0.731447373 | ADPRM,MYHC-EMBRYONIC,SCO1,TMEM220 |
| 19 | 30,300,000 | 30,450,000 | 405 | 463 | 0.604906238 | ADPRM,PIRT,TMEM220 |
| 19 | 30,375,000 | 30,525,000 | 406 | 567 | 0.729405414 | PIRT |
| 19 | 30,450,000 | 30,600,000 | 407 | 668 | 0.59816111 | |
| 19 | 30,525,000 | 30,675,000 | 408 | 684 | 0.02759577 | |
| 19 | 30,600,000 | 30,750,000 | 409 | 715 | 0.281497943 | |
| 19 | 30,675,000 | 30,825,000 | 410 | 826 | -0.870169818 | |
| 19 | 30,750,000 | 30,900,000 | 411 | 790 | -1.161450824 | |
| 19 | 30,825,000 | 30,975,000 | 412 | 567 | -0.025533236 | DNAH9 |
| 19 | 30,900,000 | 31,050,000 | 413 | 446 | -0.032367195 | DNAH9 |
| 19 | 30,975,000 | 31,125,000 | 414 | 930 | 0.984175554 | DNAH9 |
| 19 | 31,050,000 | 31,200,000 | 415 | 1003 | 1.054462357 | DNAH9 |
| 19 | 31,125,000 | 31,275,000 | 416 | 526 | 0.86979121 | DNAH9,ZNF18 |
| 19 | 31,200,000 | 31,350,000 | 417 | 347 | 0.790079501 | DNAH9,MAP2K4,ZNF18 |
| 19 | 31,275,000 | 31,425,000 | 418 | 293 | 0.749414668 | MAP2K4 |
| 19 | 31,350,000 | 31,500,000 | 419 | 330 | 1.064690814 | MAP2K4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 31,425,000 | 31,575,000 | 420 | 289 | 1.228665201 | |
| 19 | 31,500,000 | 31,650,000 | 421 | 239 | 1.090506683 | |
| 19 | 31,575,000 | 31,725,000 | 422 | 408 | 0.954228271 | |
| 19 | 31,650,000 | 31,800,000 | 423 | 575 | -0.095571141 | MYOCD |
| 19 | 31,725,000 | 31,875,000 | 424 | 699 | -1.246124576 | MYOCD |
| 19 | 31,800,000 | 31,950,000 | 425 | 671 | -1.299730114 | ARHGAP44,MYOCD |
| 19 | 31,875,000 | 32,025,000 | 426 | 882 | -1.331272466 | ARHGAP44,ELAC2 |
| 19 | 31,950,000 | 32,100,000 | 427 | 1146 | -0.149916163 | ARHGAP44,ELAC2 |
| 19 | 32,025,000 | 32,175,000 | 428 | 1118 | 0.555389385 | |
| 19 | 32,100,000 | 32,250,000 | 429 | 1228 | 0.044218658 | |
| 19 | 32,175,000 | 32,325,000 | 430 | 1021 | -0.603663721 | |
| 19 | 32,250,000 | 32,400,000 | 431 | 722 | -0.882131164 | ENSBTAG00000031107 |
| 19 | 32,325,000 | 32,475,000 | 432 | 870 | 0.96492238 | ENSBTAG00000031107 |
| 19 | 32,400,000 | 32,550,000 | 433 | 1125 | 0.182831011 | ENSBTAG00000031107 |
| 19 | 32,475,000 | 32,625,000 | 434 | 1116 | 0.031164435 | |
| 19 | 32,550,000 | 32,700,000 | 435 | 938 | 0.182718947 | COX10 |
| 19 | 32,625,000 | 32,775,000 | 436 | 862 | 0.218133295 | COX10 |
| 19 | 32,700,000 | 32,850,000 | 437 | 1139 | 0.58764544 | COX10,HS3ST3B1 |
| 19 | 32,775,000 | 32,925,000 | 438 | 1373 | 0.727032398 | COX10,HS3ST3B1 |
| 19 | 32,850,000 | 33,000,000 | 439 | 1315 | 0.85396585 | HS3ST3B1 |
| 19 | 32,925,000 | 33,075,000 | 440 | 1200 | 0.576798376 | |
| 19 | 33,000,000 | 33,150,000 | 441 | 1021 | 0.646644082 | |
| 19 | 33,075,000 | 33,225,000 | 442 | 986 | 1.004892924 | |
| 19 | 33,150,000 | 33,300,000 | 443 | 1397 | 0.864913417 | |
| 19 | 33,225,000 | 33,375,000 | 444 | 1561 | 0.72570889 | PMP22 |
| 19 | 33,300,000 | 33,450,000 | 445 | 992 | 0.397738743 | PMP22,TEKT3 |
| 19 | 33,375,000 | 33,525,000 | 446 | 683 | -0.446722734 | CDRT4,PMP22,TEKT3 |
| 19 | 33,450,000 | 33,600,000 | 447 | 636 | 0.013336712 | CDRT4,TEKT3,TVP23B |
| 19 | 33,525,000 | 33,675,000 | 448 | 852 | 1.312861046 | CDRT4,TVP23B,ZNF286A,ENSBTAG0000002605 |
| 19 | 33,600,000 | 33,750,000 | 449 | 864 | 1.333805693 | ZNF286A,ENSBTAG0000002605,ENSBTAG00000031071 |
| 19 | 33,675,000 | 33,825,000 | 450 | 603 | 1.110259952 | LRR75A,TRPV2,ZNF286A,ENSBTAG00000031071 |
| 19 | 33,750,000 | 33,900,000 | 451 | 641 | 1.207851202 | CENPV,LRR75A,PIGL,TRPV2,UBB |
| 19 | 33,825,000 | 33,975,000 | 452 | 544 | 0.291683028 | CENPV,NCOR1,PIGL,TRPV2,UBB |
| 19 | 33,900,000 | 34,050,000 | 453 | 509 | -0.411581646 | NCOR1,PIGL,TTC19 |
| 19 | 33,975,000 | 34,125,000 | 454 | 632 | 0.505478601 | ADORA2B,NCOR1,SPECC1,TTC19,ZSWIM7 |
| 19 | 34,050,000 | 34,200,000 | 455 | 776 | 0.692304833 | ADORA2B,SPECC1,TTC19,ZSWIM7 |
| 19 | 34,125,000 | 34,275,000 | 456 | 729 | 0.858442378 | SPECC1 |
| 19 | 34,200,000 | 34,350,000 | 457 | 845 | 0.518715602 | AKAP10 |
| 19 | 34,275,000 | 34,425,000 | 458 | 849 | 0.21176553 | AKAP10,ULK2 |
| 19 | 34,350,000 | 34,500,000 | 459 | 768 | 0.800361179 | AKAP10,ALDH3A1,ULK2 |
| 19 | 34,425,000 | 34,575,000 | 460 | 822 | 0.930175896 | ALDH3A1,ALDH3A2,SLC47A2,ULK2 |
| 19 | 34,500,000 | 34,650,000 | 461 | 838 | 0.150051044 | ALDH3A2,SLC47A1,SLC47A2 |
| 19 | 34,575,000 | 34,725,000 | 462 | 830 | 0.313083104 | B9D1,EPN2,MAPK7,MFAP4,RNF112,SLC47A1 |
| 19 | 34,650,000 | 34,800,000 | 463 | 855 | 0.44603703 | B9D1,EPN2,GRAP,MAPK7,MFAP4,RNF112 |
| 19 | 34,725,000 | 34,875,000 | 464 | 685 | -0.117339857 | EPN2,FAM83G,GRAP,SLC5A10 |
| 19 | 34,800,000 | 34,950,000 | 465 | 422 | 0.23291414 | FAM83G,GRAP,PRPSAP2,SHMT1,SLC5A10,SMCR8 |
| 19 | 34,875,000 | 35,025,000 | 466 | 471 | 1.047420596 | FLII,LLGL1,MIEF2,PRPSAP2,SHMT1,SMCR8,TOP3A |
| 19 | 34,950,000 | 35,100,000 | 467 | 527 | 0.42419314 | ALKBH5,DRG2,FLII,LLGL1,MIEF2,MYO15A,SMCR8,TOP3A |
| 19 | 35,025,000 | 35,175,000 | 468 | 668 | 0.411305664 | ALKBH5,ATPAF2,C19H17ORF39,DRG2,LRR48,MYO15A,TOM1L2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 35,100,000 | 35,250,000 | 469 | 609 | 0.44687182 | ATPAF2,C19H17ORF39,DRG2,LRRC48,SREBF1,TOM1L2 |
| 19 | 35,175,000 | 35,325,000 | 470 | 360 | 0.131567294 | RAI1,SREBF1,TOM1L2 |
| 19 | 35,250,000 | 35,400,000 | 471 | 295 | 0.053380307 | PEMT,RAI1,SREBF1 |
| 19 | 35,325,000 | 35,475,000 | 472 | 568 | -0.340808995 | MED9,NT5M,PEMT,RASD1 |
| 19 | 35,400,000 | 35,550,000 | 473 | 617 | -0.285465052 | COPS3,FLCN,MED9,NT5M,PEMT,PLD6,RASD1 |
| 19 | 35,475,000 | 35,625,000 | 474 | 483 | 0.110856532 | COPS3,FLCN,M-RIP,NT5M,PLD6 |
| 19 | 35,550,000 | 35,700,000 | 475 | 519 | -0.28123152 | M-RIP |
| 19 | 35,625,000 | 35,775,000 | 476 | 361 | -0.855053341 | DHRS7B,M-RIP,TNFRSF13B,USP22 |
| 19 | 35,700,000 | 35,850,000 | 477 | 221 | -1.293956056 | DHRS7B,GTLF3B,TMEM11,TNFRSF13B,USP22 |
| 19 | 35,775,000 | 35,925,000 | 478 | 210 | -1.782498654 | DHRS7B,GTLF3B,MAP2K3,TMEM11 |
| 19 | 35,850,000 | 36,000,000 | 479 | 227 | -0.467560534 | KCNJ12,MAP2K3 |
| 19 | 35,925,000 | 36,075,000 | 480 | 445 | 0.68518267 | KCNJ12,ENSBTAG00000018840 |
| 19 | 36,000,000 | 36,150,000 | 481 | 707 | 0.716055342 | UTP18,ENSBTAG00000018840 |
| 19 | 36,075,000 | 36,225,000 | 482 | 608 | 0.954266825 | MBTD1,NME1,NME2,UTP18 |
| 19 | 36,150,000 | 36,300,000 | 483 | 737 | 0.574544356 | MBTD1,NME1,NME2 |
| 19 | 36,225,000 | 36,375,000 | 484 | 803 | 0.194687297 | NME1,SPAG9 |
| 19 | 36,300,000 | 36,450,000 | 485 | 571 | 0.24392846 | SPAG9,ENSBTAG00000037660 |
| 19 | 36,375,000 | 36,525,000 | 486 | 537 | -0.163203337 | SPAG9,TOB1,ENSBTAG00000037660 |
| 19 | 36,450,000 | 36,600,000 | 487 | 599 | -0.075776632 | TOB1,WFIKKN2 |
| 19 | 36,525,000 | 36,675,000 | 488 | 602 | 0.456072601 | ANKRD40,LUC7L3,WFIKKN2 |
| 19 | 36,600,000 | 36,750,000 | 489 | 550 | 0.713012984 | ABCC3,ANKRD40,CACNA1G,LUC7L3 |
| 19 | 36,675,000 | 36,825,000 | 490 | 596 | 0.922009797 | ABCC3,ANKRD40,CACNA1G,EPN3,MYCBPAP,SPATA20 |
| 19 | 36,750,000 | 36,900,000 | 491 | 656 | 0.518045896 | ACSF2,CACNA1G,CHAD,EPN3,MYCBPAP,RSAD1,SPATA20 |
| 19 | 36,825,000 | 36,975,000 | 492 | 693 | 0.359060971 | ACSF2,CHAD,EME1,LRRC59,MRPL27,MYCBPAP,RSAD1,XYL2 |
| 19 | 36,900,000 | 37,050,000 | 493 | 633 | 0.622346145 | ACSF2,EME1,LRRC59,MRPL27,TMEM92,XYL2 |
| 19 | 36,975,000 | 37,125,000 | 494 | 491 | 0.329962896 | COL1A1,SGCA,TMEM92,ENSBTAG00000043979 |
| 19 | 37,050,000 | 37,200,000 | 495 | 390 | -0.95115525 | COL1A1,ITGA3,PKK2,SAMD14,SGCA,ENSBTAG00000043979 |
| 19 | 37,125,000 | 37,275,000 | 496 | 755 | -1.612971114 | ITGA3,PKK2,SAMD14 |
| 19 | 37,200,000 | 37,350,000 | 497 | 784 | -1.224461158 | DLX3,DLX4,ITGA3,ENSBTAG00000045805 |
| 19 | 37,275,000 | 37,425,000 | 498 | 320 | -2.060082108 | DLX3,DLX4,ENSBTAG00000045805 |
| 19 | 37,350,000 | 37,500,000 | 499 | 549 | 0.445136767 | MYST2 |
| 19 | 37,425,000 | 37,575,000 | 500 | 521 | 0.965241717 | FAM117A,MYST2,SLC35B1,SPOP |
| 19 | 37,500,000 | 37,650,000 | 501 | 239 | -0.04442866 | FAM117A,SLC35B1,SPOP |
| 19 | 37,575,000 | 37,725,000 | 502 | 458 | 0.258901248 | NXP3,SPOP |
| 19 | 37,650,000 | 37,800,000 | 503 | 745 | -0.539553649 | NGFR,NXP3,SPOP |
| 19 | 37,725,000 | 37,875,000 | 504 | 643 | -0.532415128 | NGFR,PHB |
| 19 | 37,800,000 | 37,950,000 | 505 | 375 | 0.959042987 | PHB,ZNF652 |
| 19 | 37,875,000 | 38,025,000 | 506 | 591 | 1.063376575 | ABI3,GNGT2,PHOSPHO1,ZNF652 |
| 19 | 37,950,000 | 38,100,000 | 507 | 1131 | 1.008022414 | ABI3,B4GALNT2,GNGT2,PHOSPHO1 |
| 19 | 38,025,000 | 38,175,000 | 508 | 1159 | 0.958109425 | B4GALNT2,IGF2BP1 |
| 19 | 38,100,000 | 38,250,000 | 509 | 798 | 0.986127302 | GIP,IGF2BP1,SNF8,UBE2Z |
| 19 | 38,175,000 | 38,325,000 | 510 | 658 | -0.524694364 | ATP5G1,CALCOCO2,GIP,IGF2BP1,SNF8,UBE2Z |
| 19 | 38,250,000 | 38,400,000 | 511 | 569 | -0.551861323 | ATP5G1,CALCOCO2,TLL6 |
| 19 | 38,325,000 | 38,475,000 | 512 | 437 | 0.226801649 | CALCOCO2,HOXB13,TLL6 |
| 19 | 38,400,000 | 38,550,000 | 513 | 305 | -0.350062186 | HOXB13,HOXB5,HOXB7,HOXB9 |
| 19 | 38,475,000 | 38,625,000 | 514 | 228 | -0.704305194 | HOXB1,HOXB2,HOXB3,HOXB4,HOXB5,HOXB7,HOXB9 |
| 19 | 38,550,000 | 38,700,000 | 515 | 287 | 0.443281915 | HOXB1,HOXB2,HOXB3,HOXB4,SKAP1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 38,625,000 | 38,775,000 | 516 | 382 | 1.299846707 | SKAP1 |
| 19 | 38,700,000 | 38,850,000 | 517 | 296 | 1.325285729 | SKAP1 |
| 19 | 38,775,000 | 38,925,000 | 518 | 203 | 1.174723035 | SKAP1 |
| 19 | 38,850,000 | 39,000,000 | 519 | 266 | 1.239254746 | SKAP1 |
| 19 | 38,925,000 | 39,075,000 | 520 | 247 | 1.288668519 | CBX1,NFE2L1,SKAP1,SNX11 |
| 19 | 39,000,000 | 39,150,000 | 521 | 274 | 0.959491718 | CBX1,CDK5RAP3,COPZ2,NFE2L1,SKAP1,SNX11 |
| 19 | 39,075,000 | 39,225,000 | 522 | 447 | 0.3150644 | CDK5RAP3,COPZ2,PNPO,PRR15L,SP2 |
| 19 | 39,150,000 | 39,300,000 | 523 | 417 | -0.666832131 | LRRC46,MRPL10,OSBPL7,PNPO,PRR15L,SCRN2,SP2,SP6 |
| 19 | 39,225,000 | 39,375,000 | 524 | 246 | -1.244885583 | LRRC46,MRPL10,OSBPL7,SCRN2,SP2,SP6,TBX21 |
| 19 | 39,300,000 | 39,450,000 | 525 | 177 | -0.642000997 | KPNB1,TBKBP1,TBX21 |
| 19 | 39,375,000 | 39,525,000 | 526 | 206 | 0.16418663 | KPNB1,NPEPPS,TBKBP1 |
| 19 | 39,450,000 | 39,600,000 | 527 | 277 | -0.572927842 | NPEPPS |
| 19 | 39,525,000 | 39,675,000 | 528 | 302 | 0.269511594 | GPR179,MRPL45,NPEPPS,SOCS7 |
| 19 | 39,600,000 | 39,750,000 | 529 | 244 | 1.221283888 | ARHGAP23,GPR179,MRPL45,SOCS7,ENSBTAG00000046615 |
| 19 | 39,675,000 | 39,825,000 | 530 | 252 | -0.030617244 | ARHGAP23,SRCIN1,ENSBTAG00000046615 |
| 19 | 39,750,000 | 39,900,000 | 531 | 305 | 0.159562054 | ARHGAP23,SRCIN1 |
| 19 | 39,825,000 | 39,975,000 | 532 | 285 | 0.392605843 | C17orf96,CISD3,MLLT6,PCGF2,SRCIN1 |
| 19 | 39,900,000 | 40,050,000 | 533 | 464 | 0.670357779 | C17orf96,CCDC49,CISD3,MLLT6,PCGF2,PIP4K2B,PSMB3 |
| 19 | 39,975,000 | 40,125,000 | 534 | 746 | 0.983311866 | C19H17orf98,CCDC49,LASP1,PIP4K2B,PSMB3,RPL23 |
| 19 | 40,050,000 | 40,200,000 | 535 | 610 | 0.420605866 | C19H17orf98,FBXO47,LASP1,RPL23 |
| 19 | 40,125,000 | 40,275,000 | 536 | 510 | -0.204486577 | FBXO47,LASP1,PLXDC1 |
| 19 | 40,200,000 | 40,350,000 | 537 | 469 | 0.346448733 | ARL5C,CACNB1,PLXDC1,RPL19,STAC2 |
| 19 | 40,275,000 | 40,425,000 | 538 | 378 | 0.155209907 | ARL5C,CACNB1,FBXL20,PLXDC1,RPL19,STAC2,ENSBTAG00000008368 |
| 19 | 40,350,000 | 40,500,000 | 539 | 330 | -0.156132312 | FBXL20,MED1,STAC2,ENSBTAG00000008368 |
| 19 | 40,425,000 | 40,575,000 | 540 | 277 | 0.724078837 | CDK12,FBXL20,MED1 |
| 19 | 40,500,000 | 40,650,000 | 541 | 286 | 0.600693304 | CDK12,MED1,NEUROD2 |
| 19 | 40,575,000 | 40,725,000 | 542 | 530 | 1.095390048 | ERBB2,NEUROD2,PGAP3,PNMT,PPP1R1B,STARD3,TCAP |
| 19 | 40,650,000 | 40,800,000 | 543 | 548 | 0.806132831 | ERBB2,GRB7,IKZF3,MIEN1,PGAP3,PNMT,PPP1R1B,STARD3,TCAP |
| 19 | 40,725,000 | 40,875,000 | 544 | 321 | -0.619063294 | ERBB2,GRB7,IKZF3,MIEN1,ZBP2 |
| 19 | 40,800,000 | 40,950,000 | 545 | 532 | -1.333852284 | GSDMA,GSDMB,IKZF3,LRR3C,ORMDL3,ZBP2 |
| 19 | 40,875,000 | 41,025,000 | 546 | 772 | -1.211202778 | CSF3,GSDMA,GSDMB,LRR3C,MED24,ORMDL3,PSMD3,THRA,ZBP2 |
| 19 | 40,950,000 | 41,100,000 | 547 | 700 | 0.054776263 | CASC3,CSF3,GSDMA,MED24,MSL1,NR1D1,PSMD3,THRA |
| 19 | 41,025,000 | 41,175,000 | 548 | 617 | 0.534221384 | CASC3,MSL1,NR1D1,RAPGEFL1,THRA,WIPF2 |
| 19 | 41,100,000 | 41,250,000 | 549 | 476 | 0.232251435 | CASC3,CDC6,RAPGEFL1,RARA,WIPF2 |
| 19 | 41,175,000 | 41,325,000 | 550 | 313 | -0.463065202 | CDC6,RARA,TOP2A,WIPF2 |
| 19 | 41,250,000 | 41,400,000 | 551 | 598 | -0.076946969 | IGFBP4,TNS4,TOP2A |
| 19 | 41,325,000 | 41,475,000 | 552 | 778 | 0.089006894 | CCR7,IGFBP4,TNS4 |
| 19 | 41,400,000 | 41,550,000 | 553 | 738 | -0.102836959 | CCR7,KRT222,SMARCE1 |
| 19 | 41,475,000 | 41,625,000 | 554 | 1039 | -0.085913076 | KRT222,KRT24,KRT25,KRT26,SMARCE1 |
| 19 | 41,550,000 | 41,700,000 | 555 | 1251 | -0.062998946 | KRT10,KRT24,KRT25,KRT26,KRT27,KRT28 |
| 19 | 41,625,000 | 41,775,000 | 556 | 1033 | 0.045848 | KRT10,KRT12,KRT20,KRT23,KRT27,KRT28 |
| 19 | 41,700,000 | 41,850,000 | 557 | 1066 | -1.472126669 | KRT12,KRT20,KRT23,KRT39,KRT40,KRTAP3-3 |
| 19 | 41,775,000 | 41,925,000 | 558 | 891 | -2.228392578 | KRT23,KRT39,KRT40,KRTAP1-1,KRTAP3-1,KRTAP3-3,ENSBTAG00000024995,ENSBTAG00000038759,ENSBTAG00000046225 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 41,850,000 | 42,000,000 | 559 | 711 | 0.622066886 | KRTAP1-1,KRTAP3-1,KRTAP4-7,RPL17,ENSBTAG00000024995,ENSBTAG00000037665,ENSBTAG00000037943,ENSBTAG00000038759,ENSBTAG00000039587,ENSBTAG00000039644,ENSBTAG0000040118,ENSBTAG00000046075,ENSBTAG00000046225,ENSBTAG00000046907 |
| 19 | 41,925,000 | 42,075,000 | 560 | 924 | 0.818973827 | KRTAP4-7,RPL17,ENSBTAG00000037665,ENSBTAG00000037943,ENSBTAG00000039587,ENSBTAG00000039644,ENSBTAG00000039880,ENSBTAG00000040118,ENSBTAG0000046075,ENSBTAG00000046907 |
| 19 | 42,000,000 | 42,150,000 | 561 | 900 | 0.003021015 | KRTAP9-1,ENSBTAG00000001672,ENSBTAG00000039880 |
| 19 | 42,075,000 | 42,225,000 | 562 | 830 | -0.101887353 | KRT33A,KRTAP9-1,ENSBTAG00000001672,ENSBTAG00000030519 |
| 19 | 42,150,000 | 42,300,000 | 563 | 996 | 0.1100567 | HKA1,KRT31,KRT33A,ENSBTAG00000000573,ENSBTAG00000030519 |
| 19 | 42,225,000 | 42,375,000 | 564 | 1303 | 0.376918735 | HKA1,KRT15,KRT19,KRT31,KRT32,KRT35,KRT36,ENSBTAG00000000573 |
| 19 | 42,300,000 | 42,450,000 | 565 | 1182 | 0.336531392 | KRT14,KRT15,KRT19,KRT32,KRT35,KRT36,KRT9 |
| 19 | 42,375,000 | 42,525,000 | 566 | 792 | 0.20889735 | KRT14,KRT16,KRT17,KRT9,ENSBTAG00000047262 |
| 19 | 42,450,000 | 42,600,000 | 567 | 736 | 0.860968668 | EIF1,GAST,KRT16,KRT17,ENSBTAG00000047262 |
| 19 | 42,525,000 | 42,675,000 | 568 | 614 | 1.064926787 | EIF1,FKBP10,GAST,JUP,KLHL10,LEPREL4,NT5C3L |
| 19 | 42,600,000 | 42,750,000 | 569 | 458 | 0.679181865 | ACLY,FKBP10,JUP,KLHL10,KLHL11,LEPREL4,NT5C3L,TT C25 |
| 19 | 42,675,000 | 42,825,000 | 570 | 469 | 0.440601845 | ACLY,CNP,DNAJC7,KLHL10,KLHL11,NKIRAS2,TTC25,ZNF385C |
| 19 | 42,750,000 | 42,900,000 | 571 | 398 | -0.048435115 | CNP,DNAJC7,HSPB9,KAT2A,LGP2,NKIRAS2,RAB5C,TT C25,ZNF385C |
| 19 | 42,825,000 | 42,975,000 | 572 | 370 | 0.190478182 | BORX,GHDC,HSPB9,KAT2A,KCNH4,LGP2,RAB5C,STAT 5B,ZNF385C |
| 19 | 42,900,000 | 43,050,000 | 573 | 359 | 0.430985255 | BORX,GHDC,KCNH4,RAB5C,STAT5A,STAT5B |
| 19 | 42,975,000 | 43,125,000 | 574 | 567 | 0.60063055 | STAT3,STAT5A,STAT5B |
| 19 | 43,050,000 | 43,200,000 | 575 | 515 | 0.783465352 | PTRF,STAT3,STAT5A |
| 19 | 43,125,000 | 43,275,000 | 576 | 253 | 1.012792773 | ATP6V0A1,HSD17B1,NAGLU,PTRF,STAT3 |
| 19 | 43,200,000 | 43,350,000 | 577 | 426 | 1.036885194 | ATP6V0A1,COASY,FAM134C,HSD17B1,MLX,NAGLU,PSMC3IP,TUBG1 |
| 19 | 43,275,000 | 43,425,000 | 578 | 390 | 0.824119987 | CCR10,CNTNAP1,COASY,EZH1,FAM134C,MLX,PLEKH H3,PSMC3IP,TUBG1,TUBG2 |
| 19 | 43,350,000 | 43,500,000 | 579 | 203 | 0.779592148 | BECN1,CCR10,CNTD1,CNTNAP1,COA3,EZH1,PLEKHH 3,RAMP2,TUBG2,VPS25,WNK4 |
| 19 | 43,425,000 | 43,575,000 | 580 | 544 | 0.675918642 | AOC2,AOC3,BECN1,CNTD1,COA3,EZH1,PSME3,RAMP 2,VPS25,WNK4,ENSBTAG00000001041,ENSBTAG0000 0030333,ENSBTAG00000039321 |
| 19 | 43,500,000 | 43,650,000 | 581 | 760 | 0.475139745 | AARSD1,AOC2,AOC3,G6PC,PSME3,ENSBTAG0000000 1041,ENSBTAG00000030333,ENSBTAG00000039321 |
| 19 | 43,575,000 | 43,725,000 | 582 | 613 | 0.069346435 | AARSD1,BRCA1,G6PC,IFI35,RND2,RPL27,RUNDC1,VAT 1 |
| 19 | 43,650,000 | 43,800,000 | 583 | 484 | -0.487511355 | AARSD1,BRCA1,IFI35,NBR1,RND2,RPL27,RUNDC1,VAT 1 |
| 19 | 43,725,000 | 43,875,000 | 584 | 463 | 0.23414973 | BRCA1,NBR1,SNRPE,TMEM106A |
| 19 | 43,800,000 | 43,950,000 | 585 | 796 | 0.980851524 | ARL4D,NBR1,SNRPE,TMEM106A |
| 19 | 43,875,000 | 44,025,000 | 586 | 848 | 0.843797912 | ARL4D |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 43,950,000 | 44,100,000 | 587 | 605 | 0.178021731 | DHX8,ETV4 |
| 19 | 44,025,000 | 44,175,000 | 588 | 396 | 0.296869569 | DHX8,ETV4,MEOX1 |
| 19 | 44,100,000 | 44,250,000 | 589 | 211 | 0.770765313 | MEOX1 |
| 19 | 44,175,000 | 44,325,000 | 590 | 324 | 0.619097586 | C17orf105,DUSP3,MEOX1,MPP3,SOST |
| 19 | 44,250,000 | 44,400,000 | 591 | 517 | 0.529533013 | C17orf105,CD300LG,DUSP3,MPP2,MPP3,SOST |
| 19 | 44,325,000 | 44,475,000 | 592 | 684 | 0.458605812 | CD300LG,MPP2,MPP3,PPY,PYY,PYY2 |
| 19 | 44,400,000 | 44,550,000 | 593 | 566 | 0.583569363 | G6PC3,HDAC5,LSM12,MPP2,NAGS,PPY,PYY,PYY2,TME M101 |
| 19 | 44,475,000 | 44,625,000 | 594 | 353 | 0.640390993 | ASB16,C17orf53,G6PC3,HDAC5,LSM12,NAGS,TMEM1 01 |
| 19 | 44,550,000 | 44,700,000 | 595 | 295 | -0.381827469 | ASB16,ATXN7L3,BEB3,C17orf53,HDAC5,TMUB2,UBF |
| 19 | 44,625,000 | 44,775,000 | 596 | 230 | -0.651053493 | ATXN7L3,BEB3,RUNDC3A,SLC25A39,TMUB2,UBF |
| 19 | 44,700,000 | 44,850,000 | 597 | 199 | -0.828213784 | BEB3,FAM171A2,GPATCH8,GRN,ITGA2B,RUNDC3A,SL C25A39 |
| 19 | 44,775,000 | 44,925,000 | 598 | 202 | -1.099026459 | FAM171A2,GPATCH8,GRN,ITGA2B |
| 19 | 44,850,000 | 45,000,000 | 599 | 334 | -6.26857537 | FZD2,GPATCH8 |
| 19 | 44,925,000 | 45,075,000 | 600 | 516 | -5.697882914 | C17orf104,CCDC43,DBF4B,FZD2 |
| 19 | 45,000,000 | 45,150,000 | 601 | 608 | -2.57498469 | ADAM11,C17orf104,CCDC43,DBF4B |
| 19 | 45,075,000 | 45,225,000 | 602 | 683 | -1.665346594 | ADAM11,DBF4B,EFTUD2,GJC1,HIGD1B |
| 19 | 45,150,000 | 45,300,000 | 603 | 652 | -0.822330432 | C1QL1,EFTUD2,FAM187A,GFAP,GJC1,HIGD1B,KIF18B, ENSBTAG00000013529 |
| 19 | 45,225,000 | 45,375,000 | 604 | 647 | 1.265799957 | C1QL1,DCAKD,EFTUD2,FAM187A,GFAP,KIF18B,ENSBT AG00000013529 |
| 19 | 45,300,000 | 45,450,000 | 605 | 655 | 1.13836684 | ACBD4,DCAKD,HEXIM1,NMT1,PLCD3 |
| 19 | 45,375,000 | 45,525,000 | 606 | 470 | 0.856700503 | ACBD4,FMNL1,HEXIM1,HEXIM2,NMT1,PLCD3,ENSBTA G00000024975 |
| 19 | 45,450,000 | 45,600,000 | 607 | 343 | 0.852182593 | FMNL1,HEXIM2,MAP3K14,SPATA32,ENSBTAG000000 24975 |
| 19 | 45,525,000 | 45,675,000 | 608 | 498 | 0.734662291 | MAP3K14,SPATA32,ENSBTAG00000024975 |
| 19 | 45,600,000 | 45,750,000 | 609 | 898 | 0.278128964 | ARHGAP27,PLEKHM1 |
| 19 | 45,675,000 | 45,825,000 | 610 | 1021 | 0.10946322 | ARHGAP27,PLEKHM1,ENSBTAG00000027274 |
| 19 | 45,750,000 | 45,900,000 | 611 | 889 | 0.191707281 | LYZL6,PLEKHM1,RDM1,RPRML,ENSBTAG0000002727 4 |
| 19 | 45,825,000 | 45,975,000 | 612 | 904 | 0.209512996 | GOSR2,LYZL6,RDM1,RPRML,WNT9B,ENSBTAG000000 27274 |
| 19 | 45,900,000 | 46,050,000 | 613 | 648 | 0.127973064 | GOSR2,WNT9B |
| 19 | 45,975,000 | 46,125,000 | 614 | 399 | 0.515711102 | NSF,WNT3,WNT9B |
| 19 | 46,050,000 | 46,200,000 | 615 | 395 | 0.719797766 | NSF,WNT3 |
| 19 | 46,125,000 | 46,275,000 | 616 | 309 | 0.594730035 | ARF2,NSF |
| 19 | 46,200,000 | 46,350,000 | 617 | 530 | 1.113493613 | ARF2,NSF |
| 19 | 46,275,000 | 46,425,000 | 618 | 851 | 1.133793833 | |
| 19 | 46,350,000 | 46,500,000 | 619 | 712 | 0.735645447 | CRHR1,SPPL2C |
| 19 | 46,425,000 | 46,575,000 | 620 | 483 | 0.081013287 | CRHR1,MAPT,SPPL2C |
| 19 | 46,500,000 | 46,650,000 | 621 | 659 | 0.243406056 | MAPT |
| 19 | 46,575,000 | 46,725,000 | 622 | 631 | 0.333863328 | KANSL1,MAPT |
| 19 | 46,650,000 | 46,800,000 | 623 | 301 | 0.611549036 | KANSL1,ENSBTAG00000046260 |
| 19 | 46,725,000 | 46,875,000 | 624 | 302 | 1.185778462 | CDC27,KANSL1,ENSBTAG00000046260 |
| 19 | 46,800,000 | 46,950,000 | 625 | 432 | 1.248259952 | CDC27,MYL4 |
| 19 | 46,875,000 | 47,025,000 | 626 | 616 | 0.169763739 | CDC27,INTB3,MYL4 |
| 19 | 46,950,000 | 47,100,000 | 627 | 916 | -0.266448317 | EFCAB13,INTB3 |
| 19 | 47,025,000 | 47,175,000 | 628 | 1026 | -0.267743765 | EFCAB13,INTB3,ENSBTAG00000045837 |
| 19 | 47,100,000 | 47,250,000 | 629 | 662 | -0.508660454 | ENSBTAG00000045837 |
| 19 | 47,175,000 | 47,325,000 | 630 | 756 | -1.301330233 | |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|---|--------|
| 19 | 47,250,000 | 47,400,000 | 631 | 1138 | -2.843905344 | | |
| 19 | 47,325,000 | 47,475,000 | 632 | 783 | -4.21588063 | EFCAB3 | |
| 19 | 47,400,000 | 47,550,000 | 633 | 526 | -3.476230082 | EFCAB3,METTTL2 | |
| 19 | 47,475,000 | 47,625,000 | 634 | 454 | -0.774032482 | EFCAB3,METTTL2,TLK2 | |
| 19 | 47,550,000 | 47,700,000 | 635 | 324 | 0.793632928 | TLK2 | |
| 19 | 47,625,000 | 47,775,000 | 636 | 331 | 0.383456546 | MARCH10,MRC2,TLK2 | |
| 19 | 47,700,000 | 47,850,000 | 637 | 473 | 0.36582294 | MARCH10,MRC2 | |
| 19 | 47,775,000 | 47,925,000 | 638 | 567 | 0.565622477 | | 10-Mar |
| 19 | 47,850,000 | 48,000,000 | 639 | 676 | 0.899814753 | | 10-Mar |
| 19 | 47,925,000 | 48,075,000 | 640 | 913 | 0.816864342 | | |
| 19 | 48,000,000 | 48,150,000 | 641 | 988 | 0.673036605 | TANC2 | |
| 19 | 48,075,000 | 48,225,000 | 642 | 1009 | 0.857659595 | TANC2 | |
| 19 | 48,150,000 | 48,300,000 | 643 | 879 | 0.851007666 | TANC2 | |
| 19 | 48,225,000 | 48,375,000 | 644 | 777 | 0.423343918 | TANC2 | |
| 19 | 48,300,000 | 48,450,000 | 645 | 688 | 0.517684333 | ACE,CYB561,TANC2,ENSBTAG00000047866 | |
| 19 | 48,375,000 | 48,525,000 | 646 | 474 | 0.423120311 | ACE,CYB561,KCNH6,TANC2,WDR68,ENSBTAG00000038138,ENSBTAG00000047866 | |
| 19 | 48,450,000 | 48,600,000 | 647 | 621 | 0.571761486 | ACE,KCNH6,MAP3K3,TACO1,WDR68,ENSBTAG00000038138 | |
| 19 | 48,525,000 | 48,675,000 | 648 | 697 | 0.435717365 | CCDC47,LIMD2,MAP3K3,STRADA,TACO1,WDR68 | |
| 19 | 48,600,000 | 48,750,000 | 649 | 750 | -0.497333368 | CCDC47,DDX42,FTSJ3,LIMD2,MAP3K3,PSMC5,SMARCD2,STRADA | |
| 19 | 48,675,000 | 48,825,000 | 650 | 1057 | 0.350697268 | CCDC47,CD79B,DDX42,FTSJ3,GH1,PSMC5,SCN4A,SMARCD2,ENSBTAG00000024947 | |
| 19 | 48,750,000 | 48,900,000 | 651 | 1568 | 0.665626332 | CD79B,GH1,ICAM2,SCN4A,ENSBTAG00000024947 | |
| 19 | 48,825,000 | 48,975,000 | 652 | 1657 | 0.393193222 | ERN1,ICAM2,SCN4A | |
| 19 | 48,900,000 | 49,050,000 | 653 | 1310 | -0.639145444 | ERN1,TEX2 | |
| 19 | 48,975,000 | 49,125,000 | 654 | 1233 | -1.269461328 | TEX2 | |
| 19 | 49,050,000 | 49,200,000 | 655 | 1045 | -0.974396959 | PECAM1,TEX2 | |
| 19 | 49,125,000 | 49,275,000 | 656 | 830 | -1.270594865 | MILR1,PECAM1 | |
| 19 | 49,200,000 | 49,350,000 | 657 | 797 | -1.833431119 | CEP95,DDX5,MILR1,PECAM1,POLG2 | |
| 19 | 49,275,000 | 49,425,000 | 658 | 681 | -0.179626123 | CEP95,DDX5,MILR1,POLG2,SMURF2 | |
| 19 | 49,350,000 | 49,500,000 | 659 | 526 | 0.804349376 | CEP95,SMURF2 | |
| 19 | 49,425,000 | 49,575,000 | 660 | 534 | 0.903862881 | KPNA2,SMURF2 | |
| 19 | 49,500,000 | 49,650,000 | 661 | 635 | 0.714144477 | BPTF,KPNA2 | |
| 19 | 49,575,000 | 49,725,000 | 662 | 734 | 0.303466351 | BPTF,KPNA2 | |
| 19 | 49,650,000 | 49,800,000 | 663 | 818 | 0.388895049 | BPTF,NOL11 | |
| 19 | 49,725,000 | 49,875,000 | 664 | 668 | 0.66808714 | NOL11,ENSBTAG00000044065 | |
| 19 | 49,800,000 | 49,950,000 | 665 | 580 | 0.816547242 | NOL11,ENSBTAG00000044065 | |
| 19 | 49,875,000 | 50,025,000 | 666 | 548 | 0.738350662 | ENSBTAG00000044065 | |
| 19 | 49,950,000 | 50,100,000 | 667 | 426 | 0.182052976 | | |
| 19 | 50,025,000 | 50,175,000 | 668 | 658 | 0.175715768 | PSMD12 | |
| 19 | 50,100,000 | 50,250,000 | 669 | 638 | 0.423538999 | METRNL,PSMD12 | |
| 19 | 50,175,000 | 50,325,000 | 670 | 425 | 0.324299167 | METRNL | |
| 19 | 50,250,000 | 50,400,000 | 671 | 792 | -2.459774171 | METRNL,TBCD | |
| 19 | 50,325,000 | 50,475,000 | 672 | 911 | -2.051373576 | TBCD | |
| 19 | 50,400,000 | 50,550,000 | 673 | 627 | -0.192875718 | FN3K,TBCD,ZNF750 | |
| 19 | 50,475,000 | 50,625,000 | 674 | 619 | 0.429172597 | FN3K,FN3KRP,RAB40B,TBCD,WDR45L,ZNF750 | |
| 19 | 50,550,000 | 50,700,000 | 675 | 721 | 0.372207572 | FN3KRP,FOXK2,RAB40B,WDR45L | |
| 19 | 50,625,000 | 50,775,000 | 676 | 577 | 0.089308295 | C17orf62,FOXK2,HEXDC,NARF,WDR45L | |
| 19 | 50,700,000 | 50,850,000 | 677 | 376 | -0.215493064 | C17orf62,HEXDC,NARF,OGFOD3,UTS2R,ENSBTAG0000015299,ENSBTAG00000047667 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 19 | 50,775,000 | 50,925,000 | 678 | 941 | -0.036584593 | HEXDC,OGFOD3,UTS2R,ENSBTAG00000015299,ENSBTAG00000024934,ENSBTAG00000039765,ENSBTAG000047667 |
| 19 | 50,850,000 | 51,000,000 | 679 | 1402 | 0.292616125 | SECTM1,ENSBTAG00000024915,ENSBTAG00000024934,ENSBTAG00000039765 |
| 19 | 50,925,000 | 51,075,000 | 680 | 1188 | 0.114691961 | SECTM1,ENSBTAG00000024915 |
| 19 | 51,000,000 | 51,150,000 | 681 | 1151 | -0.873325192 | SECTM1 |
| 19 | 51,075,000 | 51,225,000 | 682 | 842 | -0.756223997 | CD7,CSNK1D,SECTM1 |
| 19 | 51,150,000 | 51,300,000 | 683 | 399 | -0.072357895 | CCDC57,CD7,CSNK1D,SLC16A3 |
| 19 | 51,225,000 | 51,375,000 | 684 | 401 | -1.999253435 | CCDC57,CSNK1D,SLC16A3 |
| 19 | 51,300,000 | 51,450,000 | 685 | 422 | -1.758771158 | CCDC57,DUS1L,FASN,GPS1,RFNG |
| 19 | 51,375,000 | 51,525,000 | 686 | 388 | -0.0150737 | DCXR,DUS1L,FASN,GPS1,LRRC45,RAC3,RFNG,STRA13,ENSBTAG0000004632,ENSBTAG00000047973 |
| 19 | 51,450,000 | 51,600,000 | 687 | 303 | 0.443137514 | DCXR,LRRC45,MAFG,MYADML2,PCYT2,PYCR1,RAC3,SIRT7,STRA13,ENSBTAG0000004632,ENSBTAG00000047973 |
| 19 | 51,525,000 | 51,675,000 | 688 | 248 | 0.091776594 | ALYREF,ANAPC11,ARHGDIA,FAM195B,GCGR,MAFG,MYADML2,NPB,P4HB,PCYT2,PPP1R27,PYCR1,SIRT7,ENSBTAG0000004632 |
| 19 | 51,600,000 | 51,750,000 | 689 | 493 | 1.01549999 | ALYREF,ANAPC11,ARHGDIA,ARL16,FAM195B,GCGR,HGS,MRPL12,NPB,P4HB,PPP1R27 |
| 19 | 51,675,000 | 51,825,000 | 690 | 716 | 0.808270438 | ARL16,CCDC137,GCGR,HGS,MRPL12,NPLOC4,OXLD1,PDE6G,TSPAN10 |
| 19 | 51,750,000 | 51,900,000 | 691 | 552 | -0.111214372 | ACTG1,C17orf70,CCDC137,FSCN2,NPLOC4,OXLD1,PDE6G,TSPAN10 |
| 19 | 51,825,000 | 51,975,000 | 692 | 334 | -0.463712571 | ACTG1,BAHCC1,C17orf70,FSCN2,NPLOC4 |
| 19 | 51,900,000 | 52,050,000 | 693 | 342 | 0.397843074 | BAHCC1,SLC38A10 |
| 19 | 51,975,000 | 52,125,000 | 694 | 653 | 0.612457494 | CEP131,ENTHD2,SLC38A10 |
| 19 | 52,050,000 | 52,200,000 | 695 | 966 | 0.695457569 | AATK,BAIAP2,CEP131,ENTHD2,SLC38A10 |
| 19 | 52,125,000 | 52,275,000 | 696 | 960 | 0.328305985 | AATK,BAIAP2 |
| 19 | 52,200,000 | 52,350,000 | 697 | 934 | 0.11480818 | BAIAP2,CHMP6,RPTOR |
| 19 | 52,275,000 | 52,425,000 | 698 | 878 | 0.494091187 | CHMP6,RPTOR |
| 19 | 52,350,000 | 52,500,000 | 699 | 750 | 0.983594813 | RPTOR |
| 19 | 52,425,000 | 52,575,000 | 700 | 554 | 0.604376163 | RPTOR |
| 19 | 52,500,000 | 52,650,000 | 701 | 729 | 0.761953865 | RPTOR |
| 19 | 52,575,000 | 52,725,000 | 702 | 730 | 0.957874352 | ENDOV,NPTX1,RPTOR |
| 19 | 52,650,000 | 52,800,000 | 703 | 411 | 0.921849244 | ENDOV,NPTX1,RNF213 |
| 19 | 52,725,000 | 52,875,000 | 704 | 545 | 0.601989001 | ENDOV,RNF213 |
| 19 | 52,800,000 | 52,950,000 | 705 | 824 | 0.483971062 | ENSBTAG00000017233 |
| 19 | 52,875,000 | 53,025,000 | 706 | 983 | 0.612450038 | SLC26A11,ENSBTAG00000017233 |
| 19 | 52,950,000 | 53,100,000 | 707 | 1012 | 0.956051092 | CARD14,EIF4A3,SGSH,SLC26A11,ENSBTAG00000017233 |
| 19 | 53,025,000 | 53,175,000 | 708 | 906 | 1.072633711 | CARD14,CCDC40,EIF4A3,GAA,SGSH,SLC26A11,USMG5 |
| 19 | 53,100,000 | 53,250,000 | 709 | 626 | 0.648403107 | CCDC40,GAA,TBC1D16,USMG5 |
| 19 | 53,175,000 | 53,325,000 | 710 | 429 | 0.47079716 | CBX4,TBC1D16 |
| 19 | 53,250,000 | 53,400,000 | 711 | 458 | 0.422714985 | CBX2,CBX4,CBX8 |
| 19 | 53,325,000 | 53,475,000 | 712 | 971 | 0.279918322 | CBX2,CBX4,CBX8,ENPP7 |
| 19 | 53,400,000 | 53,550,000 | 713 | 1343 | 0.343417035 | ENPP7 |
| 19 | 53,475,000 | 53,625,000 | 714 | 1625 | 0.74346344 | RBFOX3 |
| 19 | 53,550,000 | 53,700,000 | 715 | 1844 | 0.744057234 | RBFOX3 |
| 19 | 53,625,000 | 53,775,000 | 716 | 1493 | 0.446067901 | RBFOX3 |
| 19 | 53,700,000 | 53,850,000 | 717 | 1559 | 0.148199241 | RBFOX3 |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|---|--------|
| 19 | 53,775,000 | 53,925,000 | 718 | 1746 | 0.265456365 | RBFOX3 | |
| 19 | 53,850,000 | 54,000,000 | 719 | 1521 | 0.496750246 | C1QTNF1,ENGASE,RBFOX3 | |
| 19 | 53,925,000 | 54,075,000 | 720 | 1508 | 0.604961185 | C1QTNF1,CANT1,ENGASE,LGALS3BP,RBFOX3 | |
| 19 | 54,000,000 | 54,150,000 | 721 | 1678 | 0.983753569 | CANT1,LGALS3BP,TIMP2,USP36 | |
| 19 | 54,075,000 | 54,225,000 | 722 | 1580 | 0.970830222 | TIMP2,USP36 | |
| 19 | 54,150,000 | 54,300,000 | 723 | 1477 | 0.627520488 | CYTH1,USP36 | |
| 19 | 54,225,000 | 54,375,000 | 724 | 1952 | 0.579145338 | CYTH1,DNAH17 | |
| 19 | 54,300,000 | 54,450,000 | 725 | 2160 | 0.786294993 | DNAH17,PGS1 | |
| 19 | 54,375,000 | 54,525,000 | 726 | 1672 | 0.894900612 | DNAH17,PGS1,SOCS3 | |
| 19 | 54,450,000 | 54,600,000 | 727 | 1450 | 0.507343697 | AFMID,BIRC5,SOCS3,TK1,TMEM235,ENSBTAG00000009029 | |
| 19 | 54,525,000 | 54,675,000 | 728 | 1472 | 0.307608736 | AFMID,BIRC5,SYNGR2,TK1,TMC6,TMC8,TMEM235,TNRC6C,ENSBTAG00000009029 | |
| 19 | 54,600,000 | 54,750,000 | 729 | 1236 | 0.178351331 | SYNGR2,TK1,TMC6,TMC8,TNRC6C | |
| 19 | 54,675,000 | 54,825,000 | 730 | 896 | 0.14969722 | TNRC6C | |
| 19 | 54,750,000 | 54,900,000 | 731 | 964 | -0.677720645 | | |
| 19 | 54,825,000 | 54,975,000 | 732 | 1348 | -0.726523103 | | |
| 19 | 54,900,000 | 55,050,000 | 733 | 1385 | -0.165382061 | | |
| 19 | 54,975,000 | 55,125,000 | 734 | 1703 | 0.087033096 | | 09-Sep |
| 19 | 55,050,000 | 55,200,000 | 735 | 1986 | -0.232851277 | | 09-Sep |
| 19 | 55,125,000 | 55,275,000 | 736 | 1434 | -0.086082912 | | 09-Sep |
| 19 | 55,200,000 | 55,350,000 | 737 | 1037 | -0.602080851 | SEC14L1 | |
| 19 | 55,275,000 | 55,425,000 | 738 | 935 | -2.453973052 | SEC14L1 | |
| 19 | 55,350,000 | 55,500,000 | 739 | 1281 | -1.510929668 | SEC14L1 | |
| 19 | 55,425,000 | 55,575,000 | 740 | 1704 | -0.041737499 | MGAT5B | |
| 19 | 55,500,000 | 55,650,000 | 741 | 1539 | 0.45045242 | MFSD11,MGAT5B | |
| 19 | 55,575,000 | 55,725,000 | 742 | 1223 | 0.550451514 | JMJD6,MFSD11,MGAT5B,SRSF2,ENSBTAG00000044138 | |
| 19 | 55,650,000 | 55,800,000 | 743 | 1132 | 0.655911764 | JMJD6,MFSD11,SRSF2,ST6GALNAC1,ENSBTAG00000044138 | |
| 19 | 55,725,000 | 55,875,000 | 744 | 895 | 0.794973765 | CYGB,PRCD,ST6GALNAC1,ST6GALNAC2 | |
| 19 | 55,800,000 | 55,950,000 | 745 | 726 | 0.536590096 | AANAT,CYGB,PRCD,RHBDF2,ST6GALNAC2,UBE2O,ENSBTAG00000039119 | |
| 19 | 55,875,000 | 56,025,000 | 746 | 922 | 0.49039034 | AANAT,PRPSAP1,RHBDF2,SPHK1,UBE2O,ENSBTAG00000039119 | |
| 19 | 55,950,000 | 56,100,000 | 747 | 923 | 0.915836786 | PRPSAP1,QRICH2,SPHK1,UBALD2,UBE2O | |
| 19 | 56,025,000 | 56,175,000 | 748 | 951 | 0.590368114 | FOXJ1,PRPSAP1,QRICH2,RNF157,UBALD2 | |
| 19 | 56,100,000 | 56,250,000 | 749 | 1188 | -0.113079684 | EXOC7,FOXJ1,GALR2,RNF157,SRP68,ZACN | |
| 19 | 56,175,000 | 56,325,000 | 750 | 1162 | 0.366177864 | ACOX1,CDK3,EVPL,EXOC7,FOXJ1,GALR2,SRP68,TEN1,ZACN | |
| 19 | 56,250,000 | 56,400,000 | 751 | 1024 | 0.721196837 | ACOX1,CDK3,EVPL,FBF1,MRPL38,TEN1,TRIM47,TRIM65,WBP2 | |
| 19 | 56,325,000 | 56,475,000 | 752 | 948 | 0.082501753 | FBF1,GALK1,H3F3A,ITGB4,MRPL38,TRIM47,TRIM65,UNC13D,UNK,WBP2 | |
| 19 | 56,400,000 | 56,550,000 | 753 | 1102 | 0.289358122 | GALK1,H3F3A,ITGB4,SAP30BP,UNC13D,UNK,WBP2 | |
| 19 | 56,475,000 | 56,625,000 | 754 | 1276 | 0.595389894 | ITGB4,LLGL2,RECQL5,SAP30BP,SMIM5,SMIM6,ENSBTAG00000011713 | |
| 19 | 56,550,000 | 56,700,000 | 755 | 1094 | 0.762962651 | CASKIN2,KIAA0195,LLGL2,RECQL5,SMIM5,SMIM6,TSEN54,ENSBTAG00000011713 | |
| 19 | 56,625,000 | 56,775,000 | 756 | 1077 | 0.611433746 | CASKIN2,GRB2,KIAA0195,LLGL2,TSEN54 | |
| 19 | 56,700,000 | 56,850,000 | 757 | 991 | 0.28531342 | GRB2,SLC25A19 | |
| 19 | 56,775,000 | 56,925,000 | 758 | 748 | 0.266917561 | GGA3,GRB2,MIF4GD,MRPS7,NUP85,SLC25A19,SUMO2 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 56,850,000 | 57,000,000 | 759 | 759 | 0.607128401 | ARMC7,GGA3,HN1,MIF4GD,MRPS7,NT5C,NUP85,SLC16A5,SLC25A19,SUMO2,ENSBTAG00000026645 |
| 19 | 56,925,000 | 57,075,000 | 760 | 797 | 0.841586733 | ARMC7,ATP5H,CDR2L,HN1,ICT1,KCTD2,NT5C,SLC16A5,SUMO2,ENSBTAG00000026645 |
| 19 | 57,000,000 | 57,150,000 | 761 | 1260 | 0.704418448 | ATP5H,CDR2L,FADS6,HID1,ICT1,KCTD2,OTOP2,OTOP3,USH1G,ENSBTAG00000017248 |
| 19 | 57,075,000 | 57,225,000 | 762 | 1439 | 0.680636376 | FADS6,FDXR,GRIN2C,HID1,OTOP2,OTOP3,USH1G,ENSBTAG00000017248 |
| 19 | 57,150,000 | 57,300,000 | 763 | 1163 | 0.729479656 | FADS6,FDXR,GRIN2C,NAT9,RAB37,SLC9A3R1,TMEM104 |
| 19 | 57,225,000 | 57,375,000 | 764 | 880 | -0.184262625 | NAT9,RAB37,SLC9A3R1,TMEM104,ENSBTAG00000002773 |
| 19 | 57,300,000 | 57,450,000 | 765 | 888 | -1.347351684 | CD300E,RAB37,ENSBTAG00000002773 |
| 19 | 57,375,000 | 57,525,000 | 766 | 1535 | 0.049747975 | CD300E,RAB37,ENSBTAG00000024901,ENSBTAG0000046693 |
| 19 | 57,450,000 | 57,600,000 | 767 | 1897 | 0.446645537 | CD300LB,ENSBTAG00000008328,ENSBTAG00000024901,ENSBTAG00000046693 |
| 19 | 57,525,000 | 57,675,000 | 768 | 1771 | 0.497417802 | CD300LB,GPRC5C,ENSBTAG00000000812,ENSBTAG0000008328 |
| 19 | 57,600,000 | 57,750,000 | 769 | 1398 | -0.582144992 | BTBD17,GPR142,GPRC5C,KIF19,ENSBTAG00000000812 |
| 19 | 57,675,000 | 57,825,000 | 770 | 1668 | -0.354754095 | BTBD17,DNAI2,GPR142,KIF19,TTYH2 |
| 19 | 57,750,000 | 57,900,000 | 771 | 1944 | 0.517591726 | DNAI2,KIF19,RPL38,TTYH2 |
| 19 | 57,825,000 | 57,975,000 | 772 | 1892 | 0.241080858 | RPL38,TTYH2 |
| 19 | 57,900,000 | 58,050,000 | 773 | 1691 | 0.192280038 | |
| 19 | 57,975,000 | 58,125,000 | 774 | 1273 | 0.1001282 | |
| 19 | 58,050,000 | 58,200,000 | 775 | 1171 | -0.093075408 | |
| 19 | 58,125,000 | 58,275,000 | 776 | 1580 | 0.474261924 | |
| 19 | 58,200,000 | 58,350,000 | 777 | 1578 | 0.494887231 | |
| 19 | 58,275,000 | 58,425,000 | 778 | 1623 | 0.609103235 | |
| 19 | 58,350,000 | 58,500,000 | 779 | 1802 | 0.107697803 | SDK2 |
| 19 | 58,425,000 | 58,575,000 | 780 | 1228 | -0.743781531 | SDK2 |
| 19 | 58,500,000 | 58,650,000 | 781 | 986 | 0.34545656 | C17orf80,CDC42EP4,SDK2 |
| 19 | 58,575,000 | 58,725,000 | 782 | 959 | -0.823489747 | C17orf80,CDC42EP4,COG1,MGC128049,SDK2,SSTR2 |
| 19 | 58,650,000 | 58,800,000 | 783 | 1373 | -0.632988106 | C17orf80,COG1,MGC128049,SLC39A11,SSTR2 |
| 19 | 58,725,000 | 58,875,000 | 784 | 1863 | 0.378921223 | SLC39A11 |
| 19 | 58,800,000 | 58,950,000 | 785 | 2209 | 0.236536008 | SLC39A11 |
| 19 | 58,875,000 | 59,025,000 | 786 | 2409 | -0.243908882 | SLC39A11 |
| 19 | 58,950,000 | 59,100,000 | 787 | 1945 | 0.116653714 | SLC39A11 |
| 19 | 59,025,000 | 59,175,000 | 788 | 1400 | 0.361072732 | SLC39A11 |
| 19 | 59,100,000 | 59,250,000 | 789 | 1250 | 0.451301433 | |
| 19 | 59,175,000 | 59,325,000 | 790 | 1449 | 1.086630501 | |
| 19 | 59,250,000 | 59,400,000 | 791 | 1723 | 0.859615748 | |
| 19 | 59,325,000 | 59,475,000 | 792 | 1771 | 0.719564995 | |
| 19 | 59,400,000 | 59,550,000 | 793 | 1401 | 0.699521668 | SOX9 |
| 19 | 59,475,000 | 59,625,000 | 794 | 1227 | 0.468452685 | SOX9 |
| 19 | 59,550,000 | 59,700,000 | 795 | 1136 | 0.075421495 | |
| 19 | 59,625,000 | 59,775,000 | 796 | 934 | 0.459515389 | |
| 19 | 59,700,000 | 59,850,000 | 797 | 1192 | 0.843786274 | |
| 19 | 59,775,000 | 59,925,000 | 798 | 1599 | 0.650265774 | |
| 19 | 59,850,000 | 60,000,000 | 799 | 1932 | 0.539888147 | |
| 19 | 59,925,000 | 60,075,000 | 800 | 1910 | 0.316524692 | |
| 19 | 60,000,000 | 60,150,000 | 801 | 1497 | 0.210263663 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 19 | 60,075,000 | 60,225,000 | 802 | 1428 | 0.219209797 | |
| 19 | 60,150,000 | 60,300,000 | 803 | 1230 | -0.102879211 | |
| 19 | 60,225,000 | 60,375,000 | 804 | 924 | -0.091508519 | |
| 19 | 60,300,000 | 60,450,000 | 805 | 831 | 0.112283498 | |
| 19 | 60,375,000 | 60,525,000 | 806 | 673 | -0.113155637 | |
| 19 | 60,450,000 | 60,600,000 | 807 | 919 | -1.922542291 | |
| 19 | 60,525,000 | 60,675,000 | 808 | 934 | -1.841438957 | |
| 19 | 60,600,000 | 60,750,000 | 809 | 833 | 0.949156413 | |
| 19 | 60,675,000 | 60,825,000 | 810 | 954 | 1.215258575 | |
| 19 | 60,750,000 | 60,900,000 | 811 | 810 | 0.877438978 | |
| 19 | 60,825,000 | 60,975,000 | 812 | 1070 | 0.468563347 | |
| 19 | 60,900,000 | 61,050,000 | 813 | 1214 | 0.329595687 | |
| 19 | 60,975,000 | 61,125,000 | 814 | 969 | 0.028388848 | |
| 19 | 61,050,000 | 61,200,000 | 815 | 760 | 0.664169454 | KCNJ2 |
| 19 | 61,125,000 | 61,275,000 | 816 | 1107 | 0.324650768 | KCNJ16,KCNJ2 |
| 19 | 61,200,000 | 61,350,000 | 817 | 1294 | 0.384038233 | KCNJ16 |
| 19 | 61,275,000 | 61,425,000 | 818 | 1025 | 0.856328564 | |
| 19 | 61,350,000 | 61,500,000 | 819 | 944 | 1.040892444 | |
| 19 | 61,425,000 | 61,575,000 | 820 | 676 | 1.168541604 | |
| 19 | 61,500,000 | 61,650,000 | 821 | 709 | -0.083716004 | |
| 19 | 61,575,000 | 61,725,000 | 822 | 751 | -0.344407305 | MAP2K6 |
| 19 | 61,650,000 | 61,800,000 | 823 | 979 | -0.244349351 | MAP2K6 |
| 19 | 61,725,000 | 61,875,000 | 824 | 1184 | 0.076875718 | ABCA5,MAP2K6 |
| 19 | 61,800,000 | 61,950,000 | 825 | 850 | 0.080555128 | ABCA5,MAP2K6 |
| 19 | 61,875,000 | 62,025,000 | 826 | 880 | -1.386697547 | ABCA10,ABCA5 |
| 19 | 61,950,000 | 62,100,000 | 827 | 847 | -1.755974214 | ABCA10,ABCA6,ABCA9 |
| 19 | 62,025,000 | 62,175,000 | 828 | 844 | -0.484565135 | ABCA6,ABCA9 |
| 19 | 62,100,000 | 62,250,000 | 829 | 1172 | 0.600538807 | ABCA9,ENSBTAG00000024899 |
| 19 | 62,175,000 | 62,325,000 | 830 | 1112 | 1.023743304 | FAM20A,PRKAR1A,ENSBTAG00000024899 |
| 19 | 62,250,000 | 62,400,000 | 831 | 958 | 0.343574021 | ARSG,FAM20A,PRKAR1A |
| 19 | 62,325,000 | 62,475,000 | 832 | 946 | 0.085348182 | ARSG,MGC159964,PRKAR1A |
| 19 | 62,400,000 | 62,550,000 | 833 | 945 | 0.12485508 | AMZ2,ARSG,MGC159964,SLC16A6 |
| 19 | 62,475,000 | 62,625,000 | 834 | 842 | -0.394516923 | AMZ2,GNA13,RGS9,SLC16A6,ENSBTAG00000047055 |
| 19 | 62,550,000 | 62,700,000 | 835 | 857 | -0.443179007 | GNA13,RGS9,ENSBTAG00000047055 |
| 19 | 62,625,000 | 62,775,000 | 836 | 913 | -0.336438033 | RGS9 |
| 19 | 62,700,000 | 62,850,000 | 837 | 901 | -0.561830235 | AXIN2 |
| 19 | 62,775,000 | 62,925,000 | 838 | 920 | -0.682074655 | AXIN2 |
| 19 | 62,850,000 | 63,000,000 | 839 | 765 | -0.087639799 | AXIN2 |
| 19 | 62,925,000 | 63,075,000 | 840 | 681 | 0.148798569 | CEP112 |
| 19 | 63,000,000 | 63,150,000 | 841 | 793 | 0.145166391 | CEP112 |
| 19 | 63,075,000 | 63,225,000 | 842 | 829 | 0.507236009 | CEP112 |
| 19 | 63,150,000 | 63,300,000 | 843 | 794 | 0.947971639 | APOH,CEP112 |
| 19 | 63,225,000 | 63,375,000 | 844 | 854 | 0.253831909 | APOH |
| 19 | 63,300,000 | 63,450,000 | 845 | 891 | -0.395285643 | |
| 19 | 63,375,000 | 63,525,000 | 846 | 962 | -0.508085378 | PRKCA |
| 19 | 63,450,000 | 63,600,000 | 847 | 945 | -0.957436939 | PRKCA |
| 19 | 63,525,000 | 63,675,000 | 848 | 877 | -0.620105783 | CACNG5,PRKCA |
| 19 | 63,600,000 | 63,750,000 | 849 | 847 | -0.788607564 | CACNG1,CACNG4,CACNG5 |
| 19 | 63,675,000 | 63,825,000 | 850 | 650 | -2.830852654 | CACNG1,CACNG4,HELZ |
| 19 | 63,750,000 | 63,900,000 | 851 | 479 | -4.655810857 | HELZ |
| 19 | 63,825,000 | 63,975,000 | 852 | 532 | -1.241967446 | HELZ |
| 19 | 63,900,000 | 64,050,000 | 853 | 856 | 0.594187262 | HELZ |
| 19 | 63,975,000 | 64,057,457 | 854 | 582 | 0.641743103 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 20 | 0 | 150,000 | 1 | 347 | -0.091132332 | ENSBTAG00000000617,ENSBTAG00000038364,ENSBTAG00000038537,ENSBTAG00000047333 |
| 20 | 75,000 | 225,000 | 2 | 547 | -0.308843608 | PANK3,SPZ1,ENSBTAG00000047333 |
| 20 | 150,000 | 300,000 | 3 | 851 | -0.635846814 | PANK3,SPZ1 |
| 20 | 225,000 | 375,000 | 4 | 830 | -0.90172326 | SLIT3 |
| 20 | 300,000 | 450,000 | 5 | 794 | -0.463614978 | SLIT3 |
| 20 | 375,000 | 525,000 | 6 | 920 | -0.06511218 | SLIT3 |
| 20 | 450,000 | 600,000 | 7 | 785 | 0.719824421 | SLIT3 |
| 20 | 525,000 | 675,000 | 8 | 812 | 1.254604202 | |
| 20 | 600,000 | 750,000 | 9 | 1045 | 0.59210577 | |
| 20 | 675,000 | 825,000 | 10 | 1405 | 0.364097956 | |
| 20 | 750,000 | 900,000 | 11 | 1237 | 0.442677698 | |
| 20 | 825,000 | 975,000 | 12 | 668 | 0.131639948 | |
| 20 | 900,000 | 1,050,000 | 13 | 512 | 0.224338266 | |
| 20 | 975,000 | 1,125,000 | 14 | 577 | 0.111340481 | |
| 20 | 1,050,000 | 1,200,000 | 15 | 565 | -0.867876895 | |
| 20 | 1,125,000 | 1,275,000 | 16 | 476 | -1.788169834 | |
| 20 | 1,200,000 | 1,350,000 | 17 | 720 | -1.649973483 | |
| 20 | 1,275,000 | 1,425,000 | 18 | 827 | -0.24142157 | SPDL1 |
| 20 | 1,350,000 | 1,500,000 | 19 | 806 | 0.295956759 | DOCK2,SPDL1 |
| 20 | 1,425,000 | 1,575,000 | 20 | 988 | -1.648612142 | DOCK2 |
| 20 | 1,500,000 | 1,650,000 | 21 | 1154 | -0.715821211 | DOCK2 |
| 20 | 1,575,000 | 1,725,000 | 22 | 1512 | 0.290279977 | DOCK2,FAM196B |
| 20 | 1,650,000 | 1,800,000 | 23 | 1556 | 0.002410673 | DOCK2,FAM196B |
| 20 | 1,725,000 | 1,875,000 | 24 | 1110 | 0.203856336 | DOCK2 |
| 20 | 1,800,000 | 1,950,000 | 25 | 1110 | 0.109813748 | DOCK2,FOXI1,ENSBTAG00000046449 |
| 20 | 1,875,000 | 2,025,000 | 26 | 1137 | 0.214993272 | DOCK2,FOXI1,ENSBTAG00000046449 |
| 20 | 1,950,000 | 2,100,000 | 27 | 946 | 0.449106975 | LCP2 |
| 20 | 2,025,000 | 2,175,000 | 28 | 699 | 0.366316257 | KCNMB1,LCP2 |
| 20 | 2,100,000 | 2,250,000 | 29 | 645 | 0.418229825 | KCNMB1 |
| 20 | 2,175,000 | 2,325,000 | 30 | 1308 | -0.006077804 | KCNIP1 |
| 20 | 2,250,000 | 2,400,000 | 31 | 1517 | -0.672710351 | KCNIP1 |
| 20 | 2,325,000 | 2,475,000 | 32 | 1238 | -0.454214565 | KCNIP1 |
| 20 | 2,400,000 | 2,550,000 | 33 | 1086 | 0.596474654 | KCNIP1 |
| 20 | 2,475,000 | 2,625,000 | 34 | 913 | 0.70903869 | GABRP,KCNIP1 |
| 20 | 2,550,000 | 2,700,000 | 35 | 577 | 0.439007646 | GABRP,RANBP17 |
| 20 | 2,625,000 | 2,775,000 | 36 | 305 | 0.147692826 | RANBP17 |
| 20 | 2,700,000 | 2,850,000 | 37 | 284 | -0.660165563 | RANBP17 |
| 20 | 2,775,000 | 2,925,000 | 38 | 271 | -0.980300656 | RANBP17 |
| 20 | 2,850,000 | 3,000,000 | 39 | 307 | -0.895618236 | RANBP17 |
| 20 | 2,925,000 | 3,075,000 | 40 | 514 | 0.141304585 | RANBP17,TLX3,ENSBTAG00000022684 |
| 20 | 3,000,000 | 3,150,000 | 41 | 596 | 0.186505832 | FGF18,NPM1,RANBP17,TLX3,ENSBTAG00000022684 |
| 20 | 3,075,000 | 3,225,000 | 42 | 505 | -0.408176084 | FGF18,NPM1 |
| 20 | 3,150,000 | 3,300,000 | 43 | 515 | -1.077348691 | FGF18 |
| 20 | 3,225,000 | 3,375,000 | 44 | 522 | -0.884507104 | |
| 20 | 3,300,000 | 3,450,000 | 45 | 533 | -0.711319274 | |
| 20 | 3,375,000 | 3,525,000 | 46 | 476 | -0.609723413 | SMIM23 |
| 20 | 3,450,000 | 3,600,000 | 47 | 450 | -0.147892872 | FBXW11,SMIM23 |
| 20 | 3,525,000 | 3,675,000 | 48 | 448 | 0.099336363 | FBXW11 |
| 20 | 3,600,000 | 3,750,000 | 49 | 328 | 0.593321848 | FBXW11 |
| 20 | 3,675,000 | 3,825,000 | 50 | 458 | -3.823010464 | STK10 |
| 20 | 3,750,000 | 3,900,000 | 51 | 597 | -2.708974266 | EFCAB9,STK10 |
| 20 | 3,825,000 | 3,975,000 | 52 | 414 | -0.762519643 | EFCAB9,STK10,UBTD2 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--|
| 20 | 3,900,000 | 4,050,000 | 53 | 422 | -1.382207833 | SH3PXD2B,UBTD2 |
| 20 | 3,975,000 | 4,125,000 | 54 | 645 | -2.862286835 | SH3PXD2B |
| 20 | 4,050,000 | 4,200,000 | 55 | 688 | -2.741617329 | SH3PXD2B |
| 20 | 4,125,000 | 4,275,000 | 56 | 587 | -1.525997258 | |
| 20 | 4,200,000 | 4,350,000 | 57 | 447 | -1.091648627 | NEURL1B |
| 20 | 4,275,000 | 4,425,000 | 58 | 374 | 0.358248778 | NEURL1B |
| 20 | 4,350,000 | 4,500,000 | 59 | 360 | 0.744483483 | DUSP1,NEURL1B |
| 20 | 4,425,000 | 4,575,000 | 60 | 813 | 0.337201676 | DUSP1,ERGIC1 |
| 20 | 4,500,000 | 4,650,000 | 61 | 1168 | -0.400965153 | ATP6V0E1,ERGIC1,RPL26L1 |
| 20 | 4,575,000 | 4,725,000 | 62 | 838 | -2.704518455 | ATP6V0E1,CREBRF,ERGIC1,RPL26L1 |
| 20 | 4,650,000 | 4,800,000 | 63 | 702 | -2.485552198 | ATP6V0E1,BNIP1,CREBRF |
| 20 | 4,725,000 | 4,875,000 | 64 | 742 | -0.786375996 | BNIP1,CREBRF,NKX2-5 |
| 20 | 4,800,000 | 4,950,000 | 65 | 785 | -0.198413356 | NKX2-5,STC2 |
| 20 | 4,875,000 | 5,025,000 | 66 | 680 | -0.014862243 | STC2 |
| 20 | 4,950,000 | 5,100,000 | 67 | 483 | 0.494454598 | |
| 20 | 5,025,000 | 5,175,000 | 68 | 389 | 0.917446359 | |
| 20 | 5,100,000 | 5,250,000 | 69 | 660 | 1.081725449 | BOD1 |
| 20 | 5,175,000 | 5,325,000 | 70 | 688 | 0.397741708 | BOD1 |
| 20 | 5,250,000 | 5,400,000 | 71 | 575 | -1.399956967 | |
| 20 | 5,325,000 | 5,475,000 | 72 | 660 | -0.316237856 | |
| 20 | 5,400,000 | 5,550,000 | 73 | 551 | 0.785295033 | CPEB4 |
| 20 | 5,475,000 | 5,625,000 | 74 | 616 | 0.840729828 | CPEB4 |
| 20 | 5,550,000 | 5,700,000 | 75 | 807 | 0.610158671 | CPEB4,NSG2 |
| 20 | 5,625,000 | 5,775,000 | 76 | 1029 | 0.53437155 | NSG2 |
| 20 | 5,700,000 | 5,850,000 | 77 | 1212 | 0.77334316 | NSG2 |
| 20 | 5,775,000 | 5,925,000 | 78 | 1459 | 1.006302572 | |
| 20 | 5,850,000 | 6,000,000 | 79 | 1729 | 0.929103688 | |
| 20 | 5,925,000 | 6,075,000 | 80 | 1405 | 0.108566487 | |
| 20 | 6,000,000 | 6,150,000 | 81 | 955 | -0.347739622 | |
| 20 | 6,075,000 | 6,225,000 | 82 | 808 | 0.061530713 | |
| 20 | 6,150,000 | 6,300,000 | 83 | 812 | -0.409642925 | |
| 20 | 6,225,000 | 6,375,000 | 84 | 799 | 0.222966243 | MSX2 |
| 20 | 6,300,000 | 6,450,000 | 85 | 770 | 0.214749492 | MSX2 |
| 20 | 6,375,000 | 6,525,000 | 86 | 1270 | -0.207634764 | |
| 20 | 6,450,000 | 6,600,000 | 87 | 1446 | 0.182432279 | FAM169A |
| 20 | 6,525,000 | 6,675,000 | 88 | 1274 | -1.294259214 | FAM169A,GFM2,NSA2 |
| 20 | 6,600,000 | 6,750,000 | 89 | 1309 | -1.047537081 | FAM169A,GFM2,NSA2,ENSBTAG00000015512 |
| 20 | 6,675,000 | 6,825,000 | 90 | 1152 | -0.632027866 | GFM2,ENSBTAG00000015512,ENSBTAG00000034138 |
| 20 | 6,750,000 | 6,900,000 | 91 | 904 | -1.519812385 | ENC1,ENSBTAG00000015512,ENSBTAG00000034138 |
| 20 | 6,825,000 | 6,975,000 | 92 | 1148 | -0.214241893 | ENC1 |
| 20 | 6,900,000 | 7,050,000 | 93 | 1097 | -1.080856195 | |
| 20 | 6,975,000 | 7,125,000 | 94 | 879 | -2.647921973 | |
| 20 | 7,050,000 | 7,200,000 | 95 | 1056 | -0.84855959 | |
| 20 | 7,125,000 | 7,275,000 | 96 | 949 | 0.227743856 | |
| 20 | 7,200,000 | 7,350,000 | 97 | 969 | 0.224580745 | |
| 20 | 7,275,000 | 7,425,000 | 98 | 1063 | -0.217446686 | |
| 20 | 7,350,000 | 7,500,000 | 99 | 1051 | -0.630552673 | |
| 20 | 7,425,000 | 7,575,000 | 100 | 1035 | -0.233982208 | |
| 20 | 7,500,000 | 7,650,000 | 101 | 836 | 0.707827905 | RGNEF |
| 20 | 7,575,000 | 7,725,000 | 102 | 867 | 0.693690454 | RGNEF |
| 20 | 7,650,000 | 7,800,000 | 103 | 781 | 0.59009703 | RGNEF |
| 20 | 7,725,000 | 7,875,000 | 104 | 858 | -0.125203452 | |
| 20 | 7,800,000 | 7,950,000 | 105 | 1116 | -1.076594395 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 20 | 7,875,000 | 8,025,000 | 106 | 695 | -1.812403587 | ANKRA2,UTP15 |
| 20 | 7,950,000 | 8,100,000 | 107 | 587 | -0.942991877 | ANKRA2,BTF3,CALM,UTP15 |
| 20 | 8,025,000 | 8,175,000 | 108 | 581 | -0.349016212 | BTF3,CALM |
| 20 | 8,100,000 | 8,250,000 | 109 | 550 | -0.202082349 | |
| 20 | 8,175,000 | 8,325,000 | 110 | 877 | -0.354528611 | |
| 20 | 8,250,000 | 8,400,000 | 111 | 1084 | 0.30732765 | TMEM174 |
| 20 | 8,325,000 | 8,475,000 | 112 | 1042 | 0.486600028 | FCHO2,TMEM171,TMEM174 |
| 20 | 8,400,000 | 8,550,000 | 113 | 900 | 0.069879577 | FCHO2,TMEM171 |
| 20 | 8,475,000 | 8,625,000 | 114 | 949 | -0.110893166 | FCHO2 |
| 20 | 8,550,000 | 8,700,000 | 115 | 897 | -0.469099577 | FCHO2,TNPO1 |
| 20 | 8,625,000 | 8,775,000 | 116 | 718 | -0.613552514 | TNPO1 |
| 20 | 8,700,000 | 8,850,000 | 117 | 832 | 0.732090211 | SUBH2BV |
| 20 | 8,775,000 | 8,925,000 | 118 | 1053 | 0.737363876 | SUBH2BV |
| 20 | 8,850,000 | 9,000,000 | 119 | 1335 | 0.452809439 | |
| 20 | 8,925,000 | 9,075,000 | 120 | 1334 | 0.580057235 | |
| 20 | 9,000,000 | 9,150,000 | 121 | 1085 | 0.547205306 | ZNF366 |
| 20 | 9,075,000 | 9,225,000 | 122 | 1327 | 0.736812345 | MRPS27,PTCD2,ZNF366 |
| 20 | 9,150,000 | 9,300,000 | 123 | 1371 | 0.602781143 | MRPS27,PTCD2 |
| 20 | 9,225,000 | 9,375,000 | 124 | 1198 | 0.007472248 | MAP1B,MRPS27 |
| 20 | 9,300,000 | 9,450,000 | 125 | 979 | 0.44596363 | MAP1B,MRPS27 |
| 20 | 9,375,000 | 9,525,000 | 126 | 891 | -0.325391298 | MAP1B |
| 20 | 9,450,000 | 9,600,000 | 127 | 1174 | -0.312545222 | |
| 20 | 9,525,000 | 9,675,000 | 128 | 1328 | 1.0353072 | |
| 20 | 9,600,000 | 9,750,000 | 129 | 1236 | 0.472536349 | |
| 20 | 9,675,000 | 9,825,000 | 130 | 1098 | -0.479309263 | CARTPT |
| 20 | 9,750,000 | 9,900,000 | 131 | 952 | -0.251381761 | CARTPT,MCCC2 |
| 20 | 9,825,000 | 9,975,000 | 132 | 943 | -2.364358181 | BDP1,MCCC2 |
| 20 | 9,900,000 | 10,050,000 | 133 | 757 | -2.995469186 | BDP1,MCCC2,SERF1,SMN1 |
| 20 | 9,975,000 | 10,125,000 | 134 | 370 | -0.45342368 | BDP1,NAIP,SERF1,SMN1 |
| 20 | 10,050,000 | 10,200,000 | 135 | 506 | -0.424828526 | GTF2H2,NAIP,OCLN,SMN1 |
| 20 | 10,125,000 | 10,275,000 | 136 | 867 | 0.133131068 | GTF2H2,MARVELD2,OCLN,RAD17 |
| 20 | 10,200,000 | 10,350,000 | 137 | 782 | 0.493188744 | AK6,CCDC125,MARVELD2,OCLN,RAD17,TAF9 |
| 20 | 10,275,000 | 10,425,000 | 138 | 418 | -0.621928335 | AK6,CCDC125,CDK7,CENPH,MRPS36,RAD17,TAF9 |
| 20 | 10,350,000 | 10,500,000 | 139 | 351 | 0.229965575 | CCDC125,CCNB1,CDK7,CENPH,MRPS36,SLC30A5 |
| 20 | 10,425,000 | 10,575,000 | 140 | 700 | 1.021545877 | CCNB1,CENPH,SLC30A5 |
| 20 | 10,500,000 | 10,650,000 | 141 | 924 | 0.774542885 | |
| 20 | 10,575,000 | 10,725,000 | 142 | 985 | -0.18339998 | |
| 20 | 10,650,000 | 10,800,000 | 143 | 839 | -0.598884257 | |
| 20 | 10,725,000 | 10,875,000 | 144 | 641 | -0.84346651 | |
| 20 | 10,800,000 | 10,950,000 | 145 | 809 | -0.298857819 | |
| 20 | 10,875,000 | 11,025,000 | 146 | 884 | 0.220844285 | |
| 20 | 10,950,000 | 11,100,000 | 147 | 894 | 0.155366923 | |
| 20 | 11,025,000 | 11,175,000 | 148 | 805 | -0.448756183 | |
| 20 | 11,100,000 | 11,250,000 | 149 | 788 | -0.54287705 | |
| 20 | 11,175,000 | 11,325,000 | 150 | 1040 | -0.278134095 | |
| 20 | 11,250,000 | 11,400,000 | 151 | 971 | -0.309555303 | PIK3R1 |
| 20 | 11,325,000 | 11,475,000 | 152 | 577 | -0.573257788 | PIK3R1 |
| 20 | 11,400,000 | 11,550,000 | 153 | 589 | -0.23136757 | PIK3R1 |
| 20 | 11,475,000 | 11,625,000 | 154 | 825 | 0.656820632 | |
| 20 | 11,550,000 | 11,700,000 | 155 | 1079 | 0.771083412 | |
| 20 | 11,625,000 | 11,775,000 | 156 | 1081 | 0.60485712 | DYNLL1 |
| 20 | 11,700,000 | 11,850,000 | 157 | 607 | 0.435355442 | DYNLL1 |
| 20 | 11,775,000 | 11,925,000 | 158 | 550 | 0.466039065 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 20 | 11,850,000 | 12,000,000 | 159 | 525 | 0.666678284 | |
| 20 | 11,925,000 | 12,075,000 | 160 | 612 | 1.2698757 | |
| 20 | 12,000,000 | 12,150,000 | 161 | 1126 | 0.892889515 | |
| 20 | 12,075,000 | 12,225,000 | 162 | 1113 | 0.041447258 | |
| 20 | 12,150,000 | 12,300,000 | 163 | 765 | -0.696724163 | |
| 20 | 12,225,000 | 12,375,000 | 164 | 882 | -1.806346048 | CD180 |
| 20 | 12,300,000 | 12,450,000 | 165 | 1132 | -1.423186813 | CD180,MAST4 |
| 20 | 12,375,000 | 12,525,000 | 166 | 902 | -0.262483718 | MAST4 |
| 20 | 12,450,000 | 12,600,000 | 167 | 756 | 0.427040492 | MAST4 |
| 20 | 12,525,000 | 12,675,000 | 168 | 927 | 0.770289009 | |
| 20 | 12,600,000 | 12,750,000 | 169 | 951 | 0.587094703 | |
| 20 | 12,675,000 | 12,825,000 | 170 | 789 | -0.133698623 | |
| 20 | 12,750,000 | 12,900,000 | 171 | 761 | -0.73972894 | |
| 20 | 12,825,000 | 12,975,000 | 172 | 831 | -0.35412331 | |
| 20 | 12,900,000 | 13,050,000 | 173 | 986 | 0.316619119 | |
| 20 | 12,975,000 | 13,125,000 | 174 | 934 | 0.622666107 | |
| 20 | 13,050,000 | 13,200,000 | 175 | 895 | 0.517303963 | |
| 20 | 13,125,000 | 13,275,000 | 176 | 857 | 0.651309591 | |
| 20 | 13,200,000 | 13,350,000 | 177 | 784 | -0.107244175 | |
| 20 | 13,275,000 | 13,425,000 | 178 | 807 | -0.364373048 | SREK1 |
| 20 | 13,350,000 | 13,500,000 | 179 | 496 | -0.235692277 | ERBB2IP,SREK1 |
| 20 | 13,425,000 | 13,575,000 | 180 | 393 | -0.075988337 | ERBB2IP,SREK1 |
| 20 | 13,500,000 | 13,650,000 | 181 | 442 | 0.223622871 | ERBB2IP |
| 20 | 13,575,000 | 13,725,000 | 182 | 672 | 0.35523028 | NLN |
| 20 | 13,650,000 | 13,800,000 | 183 | 741 | 0.433422131 | NLN |
| 20 | 13,725,000 | 13,875,000 | 184 | 848 | -0.51828163 | NLN,SGTB,TRAPPC13 |
| 20 | 13,800,000 | 13,950,000 | 185 | 871 | -0.952832579 | PPWD1,SGTB,TRAPPC13,TRIM23,ENSBTAG00000047828 |
| 20 | 13,875,000 | 14,025,000 | 186 | 425 | -1.610883746 | ADAMTS6,CENPK,PPWD1,TRAPPC13,TRIM23,ENSBTAG00000046810,ENSBTAG00000047828 |
| 20 | 13,950,000 | 14,100,000 | 187 | 262 | -2.058615503 | ADAMTS6,CENPK,PPWD1,ENSBTAG00000046810 |
| 20 | 14,025,000 | 14,175,000 | 188 | 245 | -1.800721735 | ADAMTS6 |
| 20 | 14,100,000 | 14,250,000 | 189 | 292 | -1.312551182 | ADAMTS6 |
| 20 | 14,175,000 | 14,325,000 | 190 | 398 | -0.811138941 | ADAMTS6 |
| 20 | 14,250,000 | 14,400,000 | 191 | 526 | -1.077754866 | ADAMTS6 |
| 20 | 14,325,000 | 14,475,000 | 192 | 596 | -0.760969493 | CWC27 |
| 20 | 14,400,000 | 14,550,000 | 193 | 492 | -0.097864183 | CWC27 |
| 20 | 14,475,000 | 14,625,000 | 194 | 330 | 0.22088194 | CWC27 |
| 20 | 14,550,000 | 14,700,000 | 195 | 430 | -0.017117731 | CWC27,SREK1IP1 |
| 20 | 14,625,000 | 14,775,000 | 196 | 620 | 0.179805595 | CWC27,FAM159B,SREK1IP1 |
| 20 | 14,700,000 | 14,850,000 | 197 | 679 | 0.80117253 | FAM159B,RGS7BP,SREK1IP1 |
| 20 | 14,775,000 | 14,925,000 | 198 | 644 | 0.873446127 | RGS7BP |
| 20 | 14,850,000 | 15,000,000 | 199 | 477 | 0.073129147 | RGS7BP |
| 20 | 14,925,000 | 15,075,000 | 200 | 357 | -0.256141083 | RGS7BP |
| 20 | 15,000,000 | 15,150,000 | 201 | 502 | 0.635250559 | RNF180 |
| 20 | 15,075,000 | 15,225,000 | 202 | 584 | 0.845896129 | RNF180 |
| 20 | 15,150,000 | 15,300,000 | 203 | 606 | 0.213305843 | RNF180 |
| 20 | 15,225,000 | 15,375,000 | 204 | 683 | -1.023339848 | RNF180 |
| 20 | 15,300,000 | 15,450,000 | 205 | 1177 | -0.477059084 | RNF180 |
| 20 | 15,375,000 | 15,525,000 | 206 | 1556 | 0.591328789 | |
| 20 | 15,450,000 | 15,600,000 | 207 | 1444 | 1.042402331 | 5HTR1A |
| 20 | 15,525,000 | 15,675,000 | 208 | 1514 | 0.303113448 | 5HTR1A |
| 20 | 15,600,000 | 15,750,000 | 209 | 1436 | -0.683097984 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------|
| 20 | 15,675,000 | 15,825,000 | 210 | 1230 | -0.178879118 | |
| 20 | 15,750,000 | 15,900,000 | 211 | 1170 | -0.141674001 | |
| 20 | 15,825,000 | 15,975,000 | 212 | 1063 | -0.8543569 | |
| 20 | 15,900,000 | 16,050,000 | 213 | 1183 | 0.244193655 | |
| 20 | 15,975,000 | 16,125,000 | 214 | 1293 | -0.008602193 | |
| 20 | 16,050,000 | 16,200,000 | 215 | 1246 | 0.8773428 | |
| 20 | 16,125,000 | 16,275,000 | 216 | 1285 | 0.800132565 | |
| 20 | 16,200,000 | 16,350,000 | 217 | 1353 | -0.030551643 | |
| 20 | 16,275,000 | 16,425,000 | 218 | 1585 | -1.021287416 | |
| 20 | 16,350,000 | 16,500,000 | 219 | 1522 | -2.480118541 | |
| 20 | 16,425,000 | 16,575,000 | 220 | 1328 | -3.69634579 | |
| 20 | 16,500,000 | 16,650,000 | 221 | 1285 | -1.209071362 | |
| 20 | 16,575,000 | 16,725,000 | 222 | 939 | -0.186193267 | |
| 20 | 16,650,000 | 16,800,000 | 223 | 1053 | -0.388539769 | IPO11 |
| 20 | 16,725,000 | 16,875,000 | 224 | 907 | 0.543625854 | IPO11 |
| 20 | 16,800,000 | 16,950,000 | 225 | 488 | 0.463983551 | IPO11 |
| 20 | 16,875,000 | 17,025,000 | 226 | 556 | 0.667946295 | DIMT1,IPO11,KIF2A |
| 20 | 16,950,000 | 17,100,000 | 227 | 482 | 0.507404925 | DIMT1,IPO11,KIF2A |
| 20 | 17,025,000 | 17,175,000 | 228 | 630 | 0.15609506 | KIF2A |
| 20 | 17,100,000 | 17,250,000 | 229 | 1048 | -0.354366341 | |
| 20 | 17,175,000 | 17,325,000 | 230 | 916 | -0.264002405 | |
| 20 | 17,250,000 | 17,400,000 | 231 | 756 | 0.3590421 | |
| 20 | 17,325,000 | 17,475,000 | 232 | 772 | 0.446378727 | |
| 20 | 17,400,000 | 17,550,000 | 233 | 513 | 0.037215961 | |
| 20 | 17,475,000 | 17,625,000 | 234 | 840 | -0.316028535 | |
| 20 | 17,550,000 | 17,700,000 | 235 | 1090 | -0.476190436 | |
| 20 | 17,625,000 | 17,775,000 | 236 | 1043 | -0.620043417 | |
| 20 | 17,700,000 | 17,850,000 | 237 | 1088 | -0.023732441 | ZSWIM6 |
| 20 | 17,775,000 | 17,925,000 | 238 | 884 | 0.733864682 | ZSWIM6 |
| 20 | 17,850,000 | 18,000,000 | 239 | 591 | 0.793603778 | ZSWIM6 |
| 20 | 17,925,000 | 18,075,000 | 240 | 674 | 0.06953662 | |
| 20 | 18,000,000 | 18,150,000 | 241 | 908 | -0.178191471 | |
| 20 | 18,075,000 | 18,225,000 | 242 | 1068 | -0.134749746 | NDUFAF2 |
| 20 | 18,150,000 | 18,300,000 | 243 | 1328 | 0.517328411 | NDUFAF2 |
| 20 | 18,225,000 | 18,375,000 | 244 | 1165 | 0.518247793 | ERCC8,NDUFAF2 |
| 20 | 18,300,000 | 18,450,000 | 245 | 988 | 0.293054629 | ERCC8,NDUFAF2 |
| 20 | 18,375,000 | 18,525,000 | 246 | 1041 | 0.31025359 | ELOVL7,ERCC8 |
| 20 | 18,450,000 | 18,600,000 | 247 | 1161 | 0.748103713 | DEPDC1B,ELOVL7 |
| 20 | 18,525,000 | 18,675,000 | 248 | 1241 | 1.147634263 | DEPDC1B,ELOVL7 |
| 20 | 18,600,000 | 18,750,000 | 249 | 1140 | 1.029494814 | DEPDC1B |
| 20 | 18,675,000 | 18,825,000 | 250 | 1099 | 0.932476091 | |
| 20 | 18,750,000 | 18,900,000 | 251 | 1213 | 0.464037697 | |
| 20 | 18,825,000 | 18,975,000 | 252 | 1641 | 0.011817196 | |
| 20 | 18,900,000 | 19,050,000 | 253 | 1671 | 0.131441383 | |
| 20 | 18,975,000 | 19,125,000 | 254 | 1341 | 0.471806073 | |
| 20 | 19,050,000 | 19,200,000 | 255 | 1328 | 0.425372642 | |
| 20 | 19,125,000 | 19,275,000 | 256 | 1242 | 0.223965909 | |
| 20 | 19,200,000 | 19,350,000 | 257 | 1028 | 0.029790679 | |
| 20 | 19,275,000 | 19,425,000 | 258 | 669 | 0.149145456 | |
| 20 | 19,350,000 | 19,500,000 | 259 | 745 | 0.762621704 | |
| 20 | 19,425,000 | 19,575,000 | 260 | 1193 | 0.807991846 | |
| 20 | 19,500,000 | 19,650,000 | 261 | 1275 | 0.489830798 | |
| 20 | 19,575,000 | 19,725,000 | 262 | 1510 | -0.086085498 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------|
| 20 | 19,650,000 | 19,800,000 | 263 | 1504 | 0.068205891 | |
| 20 | 19,725,000 | 19,875,000 | 264 | 1271 | 0.599609209 | |
| 20 | 19,800,000 | 19,950,000 | 265 | 1312 | 0.81004641 | |
| 20 | 19,875,000 | 20,025,000 | 266 | 1521 | 0.394463076 | |
| 20 | 19,950,000 | 20,100,000 | 267 | 1517 | -0.194519303 | ENSBTAG00000039486 |
| 20 | 20,025,000 | 20,175,000 | 268 | 1345 | -0.095573648 | ENSBTAG00000039486 |
| 20 | 20,100,000 | 20,250,000 | 269 | 1271 | 0.290777819 | ENSBTAG00000039486 |
| 20 | 20,175,000 | 20,325,000 | 270 | 1134 | 0.101723559 | PDE4D,ENSBTAG00000039486 |
| 20 | 20,250,000 | 20,400,000 | 271 | 1112 | -2.204683108 | PDE4D |
| 20 | 20,325,000 | 20,475,000 | 272 | 1354 | -1.185994464 | RAB3C |
| 20 | 20,400,000 | 20,550,000 | 273 | 1544 | 0.671763832 | RAB3C |
| 20 | 20,475,000 | 20,625,000 | 274 | 1117 | -0.180711833 | RAB3C,ENSBTAG00000005229 |
| 20 | 20,550,000 | 20,700,000 | 275 | 867 | -1.354616807 | RAB3C,ENSBTAG00000005229 |
| 20 | 20,625,000 | 20,775,000 | 276 | 1095 | -0.457748349 | RAB3C |
| 20 | 20,700,000 | 20,850,000 | 277 | 1298 | -0.399500646 | GAPT,RAB3C |
| 20 | 20,775,000 | 20,925,000 | 278 | 1160 | -0.407196248 | GAPT,PLK2 |
| 20 | 20,850,000 | 21,000,000 | 279 | 1131 | 0.311678522 | PLK2 |
| 20 | 20,925,000 | 21,075,000 | 280 | 1506 | 1.023593506 | |
| 20 | 21,000,000 | 21,150,000 | 281 | 1417 | 1.070159213 | |
| 20 | 21,075,000 | 21,225,000 | 282 | 1241 | 0.916705649 | |
| 20 | 21,150,000 | 21,300,000 | 283 | 1236 | 0.936967637 | |
| 20 | 21,225,000 | 21,375,000 | 284 | 1487 | 0.600608167 | |
| 20 | 21,300,000 | 21,450,000 | 285 | 1564 | 0.825166239 | |
| 20 | 21,375,000 | 21,525,000 | 286 | 1482 | 0.87528316 | |
| 20 | 21,450,000 | 21,600,000 | 287 | 1572 | 0.655106216 | |
| 20 | 21,525,000 | 21,675,000 | 288 | 1644 | 0.637363071 | |
| 20 | 21,600,000 | 21,750,000 | 289 | 1620 | 0.527039044 | |
| 20 | 21,675,000 | 21,825,000 | 290 | 1320 | 0.425234895 | |
| 20 | 21,750,000 | 21,900,000 | 291 | 1329 | -0.170757756 | |
| 20 | 21,825,000 | 21,975,000 | 292 | 1218 | -0.410038401 | ENSBTAG00000026505 |
| 20 | 21,900,000 | 22,050,000 | 293 | 908 | -0.435964417 | GPBP1,ENSBTAG00000026505 |
| 20 | 21,975,000 | 22,125,000 | 294 | 967 | -2.251555873 | GPBP1 |
| 20 | 22,050,000 | 22,200,000 | 295 | 968 | -2.180849169 | GPBP1,ENSBTAG00000047548 |
| 20 | 22,125,000 | 22,275,000 | 296 | 987 | -1.148583373 | ENSBTAG00000047548 |
| 20 | 22,200,000 | 22,350,000 | 297 | 1004 | -0.313924475 | MIER3,SETD9 |
| 20 | 22,275,000 | 22,425,000 | 298 | 774 | -0.086428868 | MAP3K1,MIER3,SETD9 |
| 20 | 22,350,000 | 22,500,000 | 299 | 943 | 0.745619206 | MAP3K1 |
| 20 | 22,425,000 | 22,575,000 | 300 | 1110 | 1.016689664 | MAP3K1 |
| 20 | 22,500,000 | 22,650,000 | 301 | 750 | 0.409438918 | |
| 20 | 22,575,000 | 22,725,000 | 302 | 874 | -0.72697533 | |
| 20 | 22,650,000 | 22,800,000 | 303 | 1221 | -0.771159864 | |
| 20 | 22,725,000 | 22,875,000 | 304 | 1082 | 0.060376964 | |
| 20 | 22,800,000 | 22,950,000 | 305 | 900 | 0.654159108 | |
| 20 | 22,875,000 | 23,025,000 | 306 | 1011 | 0.266505501 | ANKRD55 |
| 20 | 22,950,000 | 23,100,000 | 307 | 1070 | 0.078143051 | ANKRD55 |
| 20 | 23,025,000 | 23,175,000 | 308 | 906 | 0.292776576 | ANKRD55 |
| 20 | 23,100,000 | 23,250,000 | 309 | 714 | 0.14102586 | ANKRD55,IL6ST |
| 20 | 23,175,000 | 23,325,000 | 310 | 686 | -0.147644877 | IL31RA,IL6ST |
| 20 | 23,250,000 | 23,400,000 | 311 | 933 | 0.50688416 | DDX4,IL31RA,IL6ST |
| 20 | 23,325,000 | 23,475,000 | 312 | 1077 | 0.951039401 | DDX4,IL31RA,SLC38A9 |
| 20 | 23,400,000 | 23,550,000 | 313 | 733 | 0.961422276 | DDX4,SLC38A9 |
| 20 | 23,475,000 | 23,625,000 | 314 | 525 | -2.132097238 | SLC38A9 |
| 20 | 23,550,000 | 23,700,000 | 315 | 610 | -1.798424805 | PPAP2A,SLC38A9 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 23,625,000 | 23,775,000 | 316 | 546 | 0.085863379 | PPAP2A,SKIV2L2 |
| 20 | 23,700,000 | 23,850,000 | 317 | 417 | 0.045654709 | PPAP2A,SKIV2L2 |
| 20 | 23,775,000 | 23,925,000 | 318 | 596 | -0.888770975 | CCNO,DHX29,PPAP2A,SKIV2L2 |
| 20 | 23,850,000 | 24,000,000 | 319 | 945 | 0.045466284 | CCNO,CDC20B,DHX29,GPX8,MCIDAS,SKIV2L2 |
| 20 | 23,925,000 | 24,075,000 | 320 | 1107 | 1.330100877 | CCNO,CDC20B,GPX8,GZMA,MCIDAS |
| 20 | 24,000,000 | 24,150,000 | 321 | 920 | 1.290519679 | CDC20B,ESM1,GZMA,GZMK |
| 20 | 24,075,000 | 24,225,000 | 322 | 777 | 1.15817101 | ESM1,GZMK |
| 20 | 24,150,000 | 24,300,000 | 323 | 1080 | 1.187654639 | ENSBTAG00000003200 |
| 20 | 24,225,000 | 24,375,000 | 324 | 1081 | 1.171812817 | ENSBTAG00000003200 |
| 20 | 24,300,000 | 24,450,000 | 325 | 853 | 0.494243294 | COX8A |
| 20 | 24,375,000 | 24,525,000 | 326 | 974 | -0.461977246 | COX8A |
| 20 | 24,450,000 | 24,600,000 | 327 | 958 | -0.588339317 | SNX18 |
| 20 | 24,525,000 | 24,675,000 | 328 | 905 | -3.184307958 | HSPB3,SNX18 |
| 20 | 24,600,000 | 24,750,000 | 329 | 896 | -3.165179558 | HSPB3 |
| 20 | 24,675,000 | 24,825,000 | 330 | 999 | -0.615768646 | |
| 20 | 24,750,000 | 24,900,000 | 331 | 1028 | -1.063639659 | |
| 20 | 24,825,000 | 24,975,000 | 332 | 602 | -1.623637271 | ARL15 |
| 20 | 24,900,000 | 25,050,000 | 333 | 471 | -0.51647408 | ARL15 |
| 20 | 24,975,000 | 25,125,000 | 334 | 450 | 0.510393713 | ARL15 |
| 20 | 25,050,000 | 25,200,000 | 335 | 243 | 0.803664808 | |
| 20 | 25,125,000 | 25,275,000 | 336 | 200 | 0.716807783 | |
| 20 | 25,200,000 | 25,350,000 | 337 | 585 | 1.155365987 | |
| 20 | 25,275,000 | 25,425,000 | 338 | 1014 | 1.193489153 | NDUFS4 |
| 20 | 25,350,000 | 25,500,000 | 339 | 767 | 1.108914457 | NDUFS4 |
| 20 | 25,425,000 | 25,575,000 | 340 | 520 | 0.340262423 | NDUFS4 |
| 20 | 25,500,000 | 25,650,000 | 341 | 579 | -0.893195844 | FST,NDUFS4,ENSBTAG00000046997 |
| 20 | 25,575,000 | 25,725,000 | 342 | 714 | -0.094992485 | FST,ENSBTAG00000046997 |
| 20 | 25,650,000 | 25,800,000 | 343 | 917 | -0.382288275 | |
| 20 | 25,725,000 | 25,875,000 | 344 | 776 | -0.773587373 | |
| 20 | 25,800,000 | 25,950,000 | 345 | 548 | -0.446604484 | |
| 20 | 25,875,000 | 26,025,000 | 346 | 613 | 0.069486376 | ITGA2,MOCS2 |
| 20 | 25,950,000 | 26,100,000 | 347 | 682 | -0.251070221 | ITGA2,MOCS2 |
| 20 | 26,025,000 | 26,175,000 | 348 | 557 | -1.354801002 | ITGA1,ITGA2,ENSBTAG00000046575 |
| 20 | 26,100,000 | 26,250,000 | 349 | 420 | 0.498318499 | ITGA1,ENSBTAG00000046575 |
| 20 | 26,175,000 | 26,325,000 | 350 | 495 | 0.649039618 | ITGA1,PELO |
| 20 | 26,250,000 | 26,400,000 | 351 | 917 | 0.554125464 | PELO |
| 20 | 26,325,000 | 26,475,000 | 352 | 1063 | 0.739762162 | |
| 20 | 26,400,000 | 26,550,000 | 353 | 844 | 0.620933253 | |
| 20 | 26,475,000 | 26,625,000 | 354 | 854 | 0.207001625 | |
| 20 | 26,550,000 | 26,700,000 | 355 | 864 | -0.335679052 | |
| 20 | 26,625,000 | 26,775,000 | 356 | 818 | -0.431354465 | |
| 20 | 26,700,000 | 26,850,000 | 357 | 967 | -0.125316377 | |
| 20 | 26,775,000 | 26,925,000 | 358 | 751 | -0.238446772 | |
| 20 | 26,850,000 | 27,000,000 | 359 | 737 | 0.853725897 | |
| 20 | 26,925,000 | 27,075,000 | 360 | 1066 | -0.952896936 | |
| 20 | 27,000,000 | 27,150,000 | 361 | 740 | -2.964652937 | |
| 20 | 27,075,000 | 27,225,000 | 362 | 676 | 0.220753936 | |
| 20 | 27,150,000 | 27,300,000 | 363 | 739 | 1.026964357 | |
| 20 | 27,225,000 | 27,375,000 | 364 | 564 | 0.745359054 | |
| 20 | 27,300,000 | 27,450,000 | 365 | 729 | 0.721360728 | |
| 20 | 27,375,000 | 27,525,000 | 366 | 704 | 0.705445473 | |
| 20 | 27,450,000 | 27,600,000 | 367 | 1013 | 0.298944996 | |
| 20 | 27,525,000 | 27,675,000 | 368 | 1285 | -0.039054511 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 27,600,000 | 27,750,000 | 369 | 772 | -0.112307779 | ISL1 |
| 20 | 27,675,000 | 27,825,000 | 370 | 558 | 0.600693642 | ISL1 |
| 20 | 27,750,000 | 27,900,000 | 371 | 827 | 0.855633576 | ISL1 |
| 20 | 27,825,000 | 27,975,000 | 372 | 784 | 0.447734644 | |
| 20 | 27,900,000 | 28,050,000 | 373 | 820 | -5.615295229 | |
| 20 | 27,975,000 | 28,125,000 | 374 | 846 | -5.297956764 | |
| 20 | 28,050,000 | 28,200,000 | 375 | 758 | -0.420839832 | |
| 20 | 28,125,000 | 28,275,000 | 376 | 1056 | -1.357755843 | |
| 20 | 28,200,000 | 28,350,000 | 377 | 1158 | -1.164970491 | PARP8 |
| 20 | 28,275,000 | 28,425,000 | 378 | 1066 | 0.183309491 | PARP8 |
| 20 | 28,350,000 | 28,500,000 | 379 | 822 | 0.792634139 | PARP8 |
| 20 | 28,425,000 | 28,575,000 | 380 | 643 | -0.217669599 | PARP8 |
| 20 | 28,500,000 | 28,650,000 | 381 | 899 | -0.544898178 | PARP8 |
| 20 | 28,575,000 | 28,725,000 | 382 | 938 | -0.071218448 | EMB |
| 20 | 28,650,000 | 28,800,000 | 383 | 660 | 0.71399103 | EMB |
| 20 | 28,725,000 | 28,875,000 | 384 | 616 | 0.199548592 | EMB |
| 20 | 28,800,000 | 28,950,000 | 385 | 731 | -0.126200392 | |
| 20 | 28,875,000 | 29,025,000 | 386 | 784 | 0.223074073 | |
| 20 | 28,950,000 | 29,100,000 | 387 | 946 | 0.20021775 | |
| 20 | 29,025,000 | 29,175,000 | 388 | 1117 | 0.697338039 | HCN1 |
| 20 | 29,100,000 | 29,250,000 | 389 | 1002 | 0.359377744 | HCN1 |
| 20 | 29,175,000 | 29,325,000 | 390 | 1114 | -0.128975356 | HCN1 |
| 20 | 29,250,000 | 29,400,000 | 391 | 1093 | 0.307723208 | HCN1 |
| 20 | 29,325,000 | 29,475,000 | 392 | 607 | 0.597237404 | HCN1 |
| 20 | 29,400,000 | 29,550,000 | 393 | 422 | -0.024754838 | HCN1 |
| 20 | 29,475,000 | 29,625,000 | 394 | 577 | -0.448566265 | HCN1 |
| 20 | 29,550,000 | 29,700,000 | 395 | 889 | 0.209072427 | HCN1 |
| 20 | 29,625,000 | 29,775,000 | 396 | 1444 | 0.612374526 | |
| 20 | 29,700,000 | 29,850,000 | 397 | 1366 | 0.365832593 | |
| 20 | 29,775,000 | 29,925,000 | 398 | 960 | -0.373168528 | |
| 20 | 29,850,000 | 30,000,000 | 399 | 1367 | -0.428495581 | |
| 20 | 29,925,000 | 30,075,000 | 400 | 1324 | -0.33546609 | MRPS30 |
| 20 | 30,000,000 | 30,150,000 | 401 | 829 | -0.164266379 | MRPS30 |
| 20 | 30,075,000 | 30,225,000 | 402 | 580 | -0.168520907 | MRPS30 |
| 20 | 30,150,000 | 30,300,000 | 403 | 381 | -0.089672825 | |
| 20 | 30,225,000 | 30,375,000 | 404 | 455 | -0.840788574 | |
| 20 | 30,300,000 | 30,450,000 | 405 | 444 | -0.959958395 | ENSBTAG00000011657 |
| 20 | 30,375,000 | 30,525,000 | 406 | 266 | 0.540939637 | ENSBTAG00000011657 |
| 20 | 30,450,000 | 30,600,000 | 407 | 240 | 1.069285257 | |
| 20 | 30,525,000 | 30,675,000 | 408 | 412 | 0.821721234 | |
| 20 | 30,600,000 | 30,750,000 | 409 | 496 | -0.706701005 | |
| 20 | 30,675,000 | 30,825,000 | 410 | 340 | -2.26516041 | |
| 20 | 30,750,000 | 30,900,000 | 411 | 211 | -3.226407559 | |
| 20 | 30,825,000 | 30,975,000 | 412 | 301 | 0.53116869 | |
| 20 | 30,900,000 | 31,050,000 | 413 | 368 | 1.205282704 | |
| 20 | 30,975,000 | 31,125,000 | 414 | 266 | 0.786628479 | |
| 20 | 31,050,000 | 31,200,000 | 415 | 251 | -0.027362076 | NNT,ENSBTAG00000033187 |
| 20 | 31,125,000 | 31,275,000 | 416 | 274 | -0.134633208 | NNT,ENSBTAG00000033187 |
| 20 | 31,200,000 | 31,350,000 | 417 | 256 | 0.024491337 | C20H5orf34,NNT,PAIP1 |
| 20 | 31,275,000 | 31,425,000 | 418 | 386 | 0.516278123 | C20H5orf34,C5orf28,CCL28,PAIP1 |
| 20 | 31,350,000 | 31,500,000 | 419 | 498 | 0.351466854 | C20H5orf34,C5orf28,CCL28,HMGCS1,NIM1K |
| 20 | 31,425,000 | 31,575,000 | 420 | 479 | -0.824369272 | HMGCS1,NIM1K,ZNF131 |
| 20 | 31,500,000 | 31,650,000 | 421 | 545 | -1.2018851 | NIM1K,ZNF131 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 20 | 31,575,000 | 31,725,000 | 422 | 1032 | -0.569924859 | ZNF131 |
| 20 | 31,650,000 | 31,800,000 | 423 | 1297 | 0.024998445 | CCDC152 |
| 20 | 31,725,000 | 31,875,000 | 424 | 1302 | 0.446267353 | CCDC152 |
| 20 | 31,800,000 | 31,950,000 | 425 | 1103 | 0.468760827 | CCDC152,GHR |
| 20 | 31,875,000 | 32,025,000 | 426 | 834 | 0.282925542 | GHR |
| 20 | 31,950,000 | 32,100,000 | 427 | 1050 | 0.264595245 | GHR |
| 20 | 32,025,000 | 32,175,000 | 428 | 1115 | 0.85593599 | GHR |
| 20 | 32,100,000 | 32,250,000 | 429 | 700 | 1.068904446 | GHR |
| 20 | 32,175,000 | 32,325,000 | 430 | 314 | 0.472742294 | GHR |
| 20 | 32,250,000 | 32,400,000 | 431 | 223 | 0.946150074 | |
| 20 | 32,325,000 | 32,475,000 | 432 | 236 | 0.506889575 | |
| 20 | 32,400,000 | 32,550,000 | 433 | 312 | 0.373776916 | |
| 20 | 32,475,000 | 32,625,000 | 434 | 340 | 0.392480394 | FBXO4 |
| 20 | 32,550,000 | 32,700,000 | 435 | 363 | 0.424430858 | C5orf51,FBXO4,OXCT1 |
| 20 | 32,625,000 | 32,775,000 | 436 | 478 | 0.150122961 | C5orf51,OXCT1 |
| 20 | 32,700,000 | 32,850,000 | 437 | 587 | 0.151822986 | OXCT1 |
| 20 | 32,775,000 | 32,925,000 | 438 | 772 | 0.385457325 | OXCT1 |
| 20 | 32,850,000 | 33,000,000 | 439 | 1184 | 0.402975308 | |
| 20 | 32,925,000 | 33,075,000 | 440 | 1073 | 0.377338036 | PLCXD3 |
| 20 | 33,000,000 | 33,150,000 | 441 | 693 | -1.03631853 | PLCXD3 |
| 20 | 33,075,000 | 33,225,000 | 442 | 674 | -0.82599127 | PLCXD3 |
| 20 | 33,150,000 | 33,300,000 | 443 | 710 | 0.481822666 | PLCXD3 |
| 20 | 33,225,000 | 33,375,000 | 444 | 868 | 0.806642712 | C6,PLCXD3 |
| 20 | 33,300,000 | 33,450,000 | 445 | 1238 | 0.999752749 | C6 |
| 20 | 33,375,000 | 33,525,000 | 446 | 1434 | 1.027098162 | C6,MROH2B |
| 20 | 33,450,000 | 33,600,000 | 447 | 1367 | -0.086571163 | C7,MROH2B |
| 20 | 33,525,000 | 33,675,000 | 448 | 1039 | -0.621748509 | C7,CARD6,MROH2B,RPL37 |
| 20 | 33,600,000 | 33,750,000 | 449 | 752 | 0.58624364 | C7,CARD6,PRKAA1,RPL37,TTC33 |
| 20 | 33,675,000 | 33,825,000 | 450 | 681 | 0.847624756 | PRKAA1,PTGER4,TTC33 |
| 20 | 33,750,000 | 33,900,000 | 451 | 537 | 1.109937102 | PTGER4 |
| 20 | 33,825,000 | 33,975,000 | 452 | 487 | 0.837890617 | |
| 20 | 33,900,000 | 34,050,000 | 453 | 530 | 0.172820179 | |
| 20 | 33,975,000 | 34,125,000 | 454 | 509 | -0.202152314 | |
| 20 | 34,050,000 | 34,200,000 | 455 | 594 | 0.288769256 | |
| 20 | 34,125,000 | 34,275,000 | 456 | 636 | 0.452953558 | |
| 20 | 34,200,000 | 34,350,000 | 457 | 599 | -1.556731208 | |
| 20 | 34,275,000 | 34,425,000 | 458 | 897 | -2.099359204 | |
| 20 | 34,350,000 | 34,500,000 | 459 | 1064 | -1.262128609 | |
| 20 | 34,425,000 | 34,575,000 | 460 | 1216 | 0.372550753 | |
| 20 | 34,500,000 | 34,650,000 | 461 | 1446 | 0.478702325 | |
| 20 | 34,575,000 | 34,725,000 | 462 | 1364 | 0.214576404 | |
| 20 | 34,650,000 | 34,800,000 | 463 | 1289 | 0.997846956 | |
| 20 | 34,725,000 | 34,875,000 | 464 | 1274 | 0.971177923 | |
| 20 | 34,800,000 | 34,950,000 | 465 | 1290 | 0.80984426 | |
| 20 | 34,875,000 | 35,025,000 | 466 | 1130 | 0.824505049 | DAB2 |
| 20 | 34,950,000 | 35,100,000 | 467 | 1023 | 0.775822472 | C9,DAB2 |
| 20 | 35,025,000 | 35,175,000 | 468 | 1172 | 0.998191867 | C9,DAB2 |
| 20 | 35,100,000 | 35,250,000 | 469 | 1048 | 0.95577895 | C9,FYB |
| 20 | 35,175,000 | 35,325,000 | 470 | 834 | 0.674330174 | FYB |
| 20 | 35,250,000 | 35,400,000 | 471 | 788 | 0.883466763 | FYB,RICTOR |
| 20 | 35,325,000 | 35,475,000 | 472 | 647 | 0.974080957 | FYB,RICTOR |
| 20 | 35,400,000 | 35,550,000 | 473 | 542 | -1.082655012 | OSMR,RICTOR |
| 20 | 35,475,000 | 35,625,000 | 474 | 707 | -1.692206773 | OSMR,RICTOR |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 20 | 35,550,000 | 35,700,000 | 475 | 714 | -1.000378207 | OSMR |
| 20 | 35,625,000 | 35,775,000 | 476 | 628 | -0.81672619 | |
| 20 | 35,700,000 | 35,850,000 | 477 | 664 | -1.64246499 | |
| 20 | 35,775,000 | 35,925,000 | 478 | 625 | -0.690672943 | LIFR |
| 20 | 35,850,000 | 36,000,000 | 479 | 512 | -0.52887127 | EGFLAM,LIFR |
| 20 | 35,925,000 | 36,075,000 | 480 | 800 | -0.264230975 | EGFLAM,LIFR |
| 20 | 36,000,000 | 36,150,000 | 481 | 1426 | -0.272535841 | EGFLAM |
| 20 | 36,075,000 | 36,225,000 | 482 | 1245 | -0.238415205 | EGFLAM |
| 20 | 36,150,000 | 36,300,000 | 483 | 964 | 0.380873468 | EGFLAM |
| 20 | 36,225,000 | 36,375,000 | 484 | 1152 | 0.160543307 | |
| 20 | 36,300,000 | 36,450,000 | 485 | 1048 | -0.214859873 | |
| 20 | 36,375,000 | 36,525,000 | 486 | 1012 | 0.267822234 | |
| 20 | 36,450,000 | 36,600,000 | 487 | 1115 | 0.660402685 | |
| 20 | 36,525,000 | 36,675,000 | 488 | 955 | 0.224511456 | GDNF |
| 20 | 36,600,000 | 36,750,000 | 489 | 854 | -1.301278491 | GDNF,WDR70 |
| 20 | 36,675,000 | 36,825,000 | 490 | 813 | -2.781497987 | WDR70 |
| 20 | 36,750,000 | 36,900,000 | 491 | 860 | -0.956150917 | WDR70 |
| 20 | 36,825,000 | 36,975,000 | 492 | 853 | 0.151396101 | WDR70 |
| 20 | 36,900,000 | 37,050,000 | 493 | 711 | 0.065679295 | NUP155,WDR70 |
| 20 | 36,975,000 | 37,125,000 | 494 | 955 | 0.452724288 | C5orf42,NUP155,WDR70 |
| 20 | 37,050,000 | 37,200,000 | 495 | 1376 | 0.177154828 | C5orf42,NIPBL |
| 20 | 37,125,000 | 37,275,000 | 496 | 1070 | -0.066058934 | C5orf42,NIPBL |
| 20 | 37,200,000 | 37,350,000 | 497 | 610 | -0.778290865 | NIPBL |
| 20 | 37,275,000 | 37,425,000 | 498 | 889 | 0.365019217 | NIPBL |
| 20 | 37,350,000 | 37,500,000 | 499 | 1142 | -0.514323052 | ENSBTAG00000047208 |
| 20 | 37,425,000 | 37,575,000 | 500 | 765 | -1.308097495 | ENSBTAG00000047208 |
| 20 | 37,500,000 | 37,650,000 | 501 | 551 | 0.761311285 | SLC1A3 |
| 20 | 37,575,000 | 37,725,000 | 502 | 816 | 0.942159533 | SLC1A3 |
| 20 | 37,650,000 | 37,800,000 | 503 | 921 | 0.41472427 | SLC1A3 |
| 20 | 37,725,000 | 37,875,000 | 504 | 978 | -0.145685861 | |
| 20 | 37,800,000 | 37,950,000 | 505 | 853 | 0.19255026 | |
| 20 | 37,875,000 | 38,025,000 | 506 | 684 | 0.52547142 | RANBP3L |
| 20 | 37,950,000 | 38,100,000 | 507 | 840 | 0.691299356 | NADK2,RANBP3L,SKP2 |
| 20 | 38,025,000 | 38,175,000 | 508 | 875 | 0.809038705 | LMBRD2,NADK2,SKP2 |
| 20 | 38,100,000 | 38,250,000 | 509 | 834 | 1.105919587 | LMBRD2,SKP2,UGT3A1 |
| 20 | 38,175,000 | 38,325,000 | 510 | 694 | 1.088653345 | CAPSL,UGT3A1 |
| 20 | 38,250,000 | 38,400,000 | 511 | 481 | 0.56291283 | CAPSL,IL7R |
| 20 | 38,325,000 | 38,475,000 | 512 | 523 | 0.566652091 | IL7R,SPEF2 |
| 20 | 38,400,000 | 38,550,000 | 513 | 649 | 0.733904624 | SPEF2 |
| 20 | 38,475,000 | 38,625,000 | 514 | 714 | 0.529382959 | SPEF2 |
| 20 | 38,550,000 | 38,700,000 | 515 | 616 | 0.637971792 | SPEF2 |
| 20 | 38,625,000 | 38,775,000 | 516 | 755 | 0.484303887 | |
| 20 | 38,700,000 | 38,850,000 | 517 | 967 | 0.268405021 | |
| 20 | 38,775,000 | 38,925,000 | 518 | 1234 | 0.80434557 | |
| 20 | 38,850,000 | 39,000,000 | 519 | 1386 | 0.77368382 | |
| 20 | 38,925,000 | 39,075,000 | 520 | 1222 | 0.714657511 | PRLR |
| 20 | 39,000,000 | 39,150,000 | 521 | 1079 | 0.739362356 | PRLR |
| 20 | 39,075,000 | 39,225,000 | 522 | 1105 | 0.102284496 | AGXT2,PRLR |
| 20 | 39,150,000 | 39,300,000 | 523 | 1081 | -0.070951299 | AGXT2,BRIX1,DNAJC21,RAD1,TTC23L |
| 20 | 39,225,000 | 39,375,000 | 524 | 683 | 0.232794191 | BRIX1,DNAJC21,RAD1,RAI14,TTC23L |
| 20 | 39,300,000 | 39,450,000 | 525 | 577 | 0.93951792 | RAI14,TTC23L |
| 20 | 39,375,000 | 39,525,000 | 526 | 796 | 0.624696463 | RAI14 |
| 20 | 39,450,000 | 39,600,000 | 527 | 676 | 0.166435245 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------------|
| 20 | 39,525,000 | 39,675,000 | 528 | 725 | 0.620469918 | |
| 20 | 39,600,000 | 39,750,000 | 529 | 722 | 0.458024304 | |
| 20 | 39,675,000 | 39,825,000 | 530 | 636 | -1.426249818 | AMACR,C1QTNF3 |
| 20 | 39,750,000 | 39,900,000 | 531 | 788 | -0.93943498 | AMACR,C1QTNF3,RXFP3,SLC45A2 |
| 20 | 39,825,000 | 39,975,000 | 532 | 746 | -0.178259406 | ADAMTS12,RXFP3,SLC45A2 |
| 20 | 39,900,000 | 40,050,000 | 533 | 631 | -0.273483849 | ADAMTS12 |
| 20 | 39,975,000 | 40,125,000 | 534 | 713 | 0.255690738 | ADAMTS12 |
| 20 | 40,050,000 | 40,200,000 | 535 | 1001 | 0.462510605 | ADAMTS12 |
| 20 | 40,125,000 | 40,275,000 | 536 | 1058 | -0.595490639 | ADAMTS12 |
| 20 | 40,200,000 | 40,350,000 | 537 | 697 | -1.160470066 | ADAMTS12,TARS |
| 20 | 40,275,000 | 40,425,000 | 538 | 469 | 0.340798639 | ADAMTS12,TARS |
| 20 | 40,350,000 | 40,500,000 | 539 | 717 | 0.569295464 | TARS |
| 20 | 40,425,000 | 40,575,000 | 540 | 724 | 0.56558463 | |
| 20 | 40,500,000 | 40,650,000 | 541 | 551 | 0.110828567 | |
| 20 | 40,575,000 | 40,725,000 | 542 | 751 | -0.423399796 | |
| 20 | 40,650,000 | 40,800,000 | 543 | 987 | -0.498502647 | |
| 20 | 40,725,000 | 40,875,000 | 544 | 970 | -0.303771043 | |
| 20 | 40,800,000 | 40,950,000 | 545 | 881 | -1.846596867 | |
| 20 | 40,875,000 | 41,025,000 | 546 | 886 | -3.209776107 | NPR3 |
| 20 | 40,950,000 | 41,100,000 | 547 | 845 | -1.630449675 | NPR3 |
| 20 | 41,025,000 | 41,175,000 | 548 | 672 | 0.091166327 | NPR3,SUB1 |
| 20 | 41,100,000 | 41,250,000 | 549 | 782 | 0.910818726 | SUB1 |
| 20 | 41,175,000 | 41,325,000 | 550 | 680 | 1.345908773 | ZFR |
| 20 | 41,250,000 | 41,400,000 | 551 | 361 | 0.984401505 | MTMR12,ZFR |
| 20 | 41,325,000 | 41,475,000 | 552 | 403 | 0.755000575 | MTMR12,ZFR |
| 20 | 41,400,000 | 41,550,000 | 553 | 624 | -0.2474736 | GOLPH3,MTMR12 |
| 20 | 41,475,000 | 41,625,000 | 554 | 743 | -0.233939692 | GOLPH3,ENSBTAG00000014455 |
| 20 | 41,550,000 | 41,700,000 | 555 | 711 | 0.268933698 | GOLPH3,ENSBTAG00000014455 |
| 20 | 41,625,000 | 41,775,000 | 556 | 852 | -0.503979348 | ENSBTAG00000014455 |
| 20 | 41,700,000 | 41,850,000 | 557 | 919 | -0.281380796 | ENSBTAG00000038985 |
| 20 | 41,775,000 | 41,925,000 | 558 | 1005 | 0.505196712 | ENSBTAG00000038985 |
| 20 | 41,850,000 | 42,000,000 | 559 | 950 | 0.269466075 | |
| 20 | 41,925,000 | 42,075,000 | 560 | 888 | -0.261798302 | C20H5ORF22,DROSHA |
| 20 | 42,000,000 | 42,150,000 | 561 | 1104 | 0.025797041 | C20H5ORF22,DROSHA |
| 20 | 42,075,000 | 42,225,000 | 562 | 1072 | -0.411375594 | DROSHA |
| 20 | 42,150,000 | 42,300,000 | 563 | 1079 | -0.607496251 | CDH6,DROSHA |
| 20 | 42,225,000 | 42,375,000 | 564 | 951 | 0.041975615 | CDH6 |
| 20 | 42,300,000 | 42,450,000 | 565 | 657 | -0.721019819 | CDH6 |
| 20 | 42,375,000 | 42,525,000 | 566 | 647 | -1.019742137 | CDH6 |
| 20 | 42,450,000 | 42,600,000 | 567 | 651 | -0.777107429 | |
| 20 | 42,525,000 | 42,675,000 | 568 | 772 | -1.183462034 | |
| 20 | 42,600,000 | 42,750,000 | 569 | 847 | -0.836706829 | |
| 20 | 42,675,000 | 42,825,000 | 570 | 868 | -0.259578372 | |
| 20 | 42,750,000 | 42,900,000 | 571 | 1024 | 0.292620422 | |
| 20 | 42,825,000 | 42,975,000 | 572 | 1091 | 0.42872713 | |
| 20 | 42,900,000 | 43,050,000 | 573 | 1078 | 0.05020209 | |
| 20 | 42,975,000 | 43,125,000 | 574 | 977 | -0.66388897 | |
| 20 | 43,050,000 | 43,200,000 | 575 | 954 | -0.613622842 | |
| 20 | 43,125,000 | 43,275,000 | 576 | 1047 | -0.231380343 | |
| 20 | 43,200,000 | 43,350,000 | 577 | 1207 | 0.401790699 | |
| 20 | 43,275,000 | 43,425,000 | 578 | 1195 | 0.728084016 | |
| 20 | 43,350,000 | 43,500,000 | 579 | 1089 | -0.285272204 | |
| 20 | 43,425,000 | 43,575,000 | 580 | 1273 | -0.386412915 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 20 | 43,500,000 | 43,650,000 | 581 | 1358 | -0.071016557 | |
| 20 | 43,575,000 | 43,725,000 | 582 | 1198 | -0.1197459 | |
| 20 | 43,650,000 | 43,800,000 | 583 | 1379 | 0.737415317 | |
| 20 | 43,725,000 | 43,875,000 | 584 | 1218 | 0.869906474 | |
| 20 | 43,800,000 | 43,950,000 | 585 | 942 | 0.682668076 | |
| 20 | 43,875,000 | 44,025,000 | 586 | 1402 | 0.640918977 | |
| 20 | 43,950,000 | 44,100,000 | 587 | 1500 | 0.637622605 | |
| 20 | 44,025,000 | 44,175,000 | 588 | 1201 | 0.7293052 | |
| 20 | 44,100,000 | 44,250,000 | 589 | 1134 | 0.766421683 | |
| 20 | 44,175,000 | 44,325,000 | 590 | 1468 | 0.507494868 | |
| 20 | 44,250,000 | 44,400,000 | 591 | 1572 | 0.206075255 | |
| 20 | 44,325,000 | 44,475,000 | 592 | 1436 | 0.595612096 | |
| 20 | 44,400,000 | 44,550,000 | 593 | 1333 | 0.821785716 | |
| 20 | 44,475,000 | 44,625,000 | 594 | 1344 | 0.705552745 | |
| 20 | 44,550,000 | 44,700,000 | 595 | 1462 | -0.885818122 | |
| 20 | 44,625,000 | 44,775,000 | 596 | 1551 | -1.319641213 | |
| 20 | 44,700,000 | 44,850,000 | 597 | 1588 | 0.024210638 | |
| 20 | 44,775,000 | 44,925,000 | 598 | 1299 | -1.319505053 | |
| 20 | 44,850,000 | 45,000,000 | 599 | 1039 | -2.359415742 | |
| 20 | 44,925,000 | 45,075,000 | 600 | 930 | -0.680745851 | |
| 20 | 45,000,000 | 45,150,000 | 601 | 1220 | 0.176189461 | |
| 20 | 45,075,000 | 45,225,000 | 602 | 979 | -0.126572154 | |
| 20 | 45,150,000 | 45,300,000 | 603 | 480 | -0.663625507 | |
| 20 | 45,225,000 | 45,375,000 | 604 | 1070 | 0.150890821 | |
| 20 | 45,300,000 | 45,450,000 | 605 | 1089 | 0.211558622 | |
| 20 | 45,375,000 | 45,525,000 | 606 | 1310 | -0.19577357 | |
| 20 | 45,450,000 | 45,600,000 | 607 | 1590 | -0.378161693 | |
| 20 | 45,525,000 | 45,675,000 | 608 | 1093 | -1.457718067 | |
| 20 | 45,600,000 | 45,750,000 | 609 | 1236 | -3.103885394 | |
| 20 | 45,675,000 | 45,825,000 | 610 | 1020 | -2.418254905 | |
| 20 | 45,750,000 | 45,900,000 | 611 | 802 | 0.504646817 | |
| 20 | 45,825,000 | 45,975,000 | 612 | 1212 | 0.138067589 | |
| 20 | 45,900,000 | 46,050,000 | 613 | 1378 | 0.06546634 | |
| 20 | 45,975,000 | 46,125,000 | 614 | 1282 | 0.126047211 | |
| 20 | 46,050,000 | 46,200,000 | 615 | 1253 | 0.291060472 | |
| 20 | 46,125,000 | 46,275,000 | 616 | 1190 | 0.65116889 | |
| 20 | 46,200,000 | 46,350,000 | 617 | 1298 | 0.622816148 | |
| 20 | 46,275,000 | 46,425,000 | 618 | 1275 | 0.81155238 | |
| 20 | 46,350,000 | 46,500,000 | 619 | 987 | 0.273702439 | |
| 20 | 46,425,000 | 46,575,000 | 620 | 1089 | 0.178493659 | |
| 20 | 46,500,000 | 46,650,000 | 621 | 919 | 0.882864156 | |
| 20 | 46,575,000 | 46,725,000 | 622 | 593 | 0.375439463 | |
| 20 | 46,650,000 | 46,800,000 | 623 | 834 | 0.354378785 | CDH9 |
| 20 | 46,725,000 | 46,875,000 | 624 | 828 | 0.554436667 | CDH9 |
| 20 | 46,800,000 | 46,950,000 | 625 | 539 | 0.60661733 | |
| 20 | 46,875,000 | 47,025,000 | 626 | 493 | 0.086529743 | |
| 20 | 46,950,000 | 47,100,000 | 627 | 567 | -0.489436418 | |
| 20 | 47,025,000 | 47,175,000 | 628 | 642 | -0.34765968 | |
| 20 | 47,100,000 | 47,250,000 | 629 | 783 | -0.280211946 | ENSBTAG00000048105 |
| 20 | 47,175,000 | 47,325,000 | 630 | 1054 | -1.444134028 | ENSBTAG00000048105 |
| 20 | 47,250,000 | 47,400,000 | 631 | 1333 | -1.340413113 | |
| 20 | 47,325,000 | 47,475,000 | 632 | 1644 | -0.52462807 | |
| 20 | 47,400,000 | 47,550,000 | 633 | 1374 | -0.524420391 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 20 | 47,475,000 | 47,625,000 | 634 | 922 | -1.716101433 | |
| 20 | 47,550,000 | 47,700,000 | 635 | 832 | -1.477399993 | |
| 20 | 47,625,000 | 47,775,000 | 636 | 890 | 0.772011738 | |
| 20 | 47,700,000 | 47,850,000 | 637 | 976 | 0.975138532 | |
| 20 | 47,775,000 | 47,925,000 | 638 | 1216 | 0.083235389 | |
| 20 | 47,850,000 | 48,000,000 | 639 | 1497 | -2.245706638 | ENSBTAG00000045813 |
| 20 | 47,925,000 | 48,075,000 | 640 | 1444 | -2.079878666 | ENSBTAG00000045813 |
| 20 | 48,000,000 | 48,150,000 | 641 | 1138 | -0.37124413 | |
| 20 | 48,075,000 | 48,225,000 | 642 | 751 | -0.532498913 | |
| 20 | 48,150,000 | 48,300,000 | 643 | 552 | 0.300569655 | |
| 20 | 48,225,000 | 48,375,000 | 644 | 527 | -0.195499266 | |
| 20 | 48,300,000 | 48,450,000 | 645 | 540 | -0.147431903 | |
| 20 | 48,375,000 | 48,525,000 | 646 | 604 | 0.637237703 | |
| 20 | 48,450,000 | 48,600,000 | 647 | 887 | -0.506403506 | |
| 20 | 48,525,000 | 48,675,000 | 648 | 946 | -1.21186163 | |
| 20 | 48,600,000 | 48,750,000 | 649 | 677 | -0.101988139 | |
| 20 | 48,675,000 | 48,825,000 | 650 | 623 | 0.785458886 | |
| 20 | 48,750,000 | 48,900,000 | 651 | 943 | 0.67138233 | CDH10 |
| 20 | 48,825,000 | 48,975,000 | 652 | 1409 | -1.78168124 | CDH10 |
| 20 | 48,900,000 | 49,050,000 | 653 | 1113 | -2.483929823 | CDH10 |
| 20 | 48,975,000 | 49,125,000 | 654 | 626 | -0.517060303 | CDH10 |
| 20 | 49,050,000 | 49,200,000 | 655 | 930 | 0.319373646 | CDH10 |
| 20 | 49,125,000 | 49,275,000 | 656 | 956 | 1.005900466 | |
| 20 | 49,200,000 | 49,350,000 | 657 | 1181 | 0.617811878 | |
| 20 | 49,275,000 | 49,425,000 | 658 | 1519 | 0.190758736 | |
| 20 | 49,350,000 | 49,500,000 | 659 | 1391 | -2.078070803 | |
| 20 | 49,425,000 | 49,575,000 | 660 | 1062 | -4.804437204 | |
| 20 | 49,500,000 | 49,650,000 | 661 | 1072 | -1.36624335 | |
| 20 | 49,575,000 | 49,725,000 | 662 | 1593 | -0.787212038 | |
| 20 | 49,650,000 | 49,800,000 | 663 | 1508 | -1.100167981 | |
| 20 | 49,725,000 | 49,875,000 | 664 | 1520 | -0.600316739 | |
| 20 | 49,800,000 | 49,950,000 | 665 | 1550 | -0.541540318 | |
| 20 | 49,875,000 | 50,025,000 | 666 | 1142 | -0.512840994 | |
| 20 | 49,950,000 | 50,100,000 | 667 | 897 | -0.134562052 | |
| 20 | 50,025,000 | 50,175,000 | 668 | 1009 | 0.083411871 | |
| 20 | 50,100,000 | 50,250,000 | 669 | 1233 | -0.519901694 | |
| 20 | 50,175,000 | 50,325,000 | 670 | 890 | -0.860918145 | |
| 20 | 50,250,000 | 50,400,000 | 671 | 839 | -2.159764531 | |
| 20 | 50,325,000 | 50,475,000 | 672 | 924 | -2.066006824 | |
| 20 | 50,400,000 | 50,550,000 | 673 | 874 | -0.361118213 | |
| 20 | 50,475,000 | 50,625,000 | 674 | 1000 | 0.218345045 | |
| 20 | 50,550,000 | 50,700,000 | 675 | 1224 | -0.054584535 | |
| 20 | 50,625,000 | 50,775,000 | 676 | 1320 | -0.539925701 | |
| 20 | 50,700,000 | 50,850,000 | 677 | 979 | -0.458914837 | |
| 20 | 50,775,000 | 50,925,000 | 678 | 1084 | -0.327582139 | |
| 20 | 50,850,000 | 51,000,000 | 679 | 1107 | -0.415341707 | |
| 20 | 50,925,000 | 51,075,000 | 680 | 947 | -0.200805273 | |
| 20 | 51,000,000 | 51,150,000 | 681 | 1011 | -1.559943031 | |
| 20 | 51,075,000 | 51,225,000 | 682 | 731 | -1.397415438 | |
| 20 | 51,150,000 | 51,300,000 | 683 | 462 | 0.125780303 | |
| 20 | 51,225,000 | 51,375,000 | 684 | 606 | -0.130225716 | |
| 20 | 51,300,000 | 51,450,000 | 685 | 721 | -0.008859492 | |
| 20 | 51,375,000 | 51,525,000 | 686 | 587 | 0.137866257 | CDH12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------|
| 20 | 51,450,000 | 51,600,000 | 687 | 668 | -0.148608938 | CDH12 |
| 20 | 51,525,000 | 51,675,000 | 688 | 772 | 0.125236783 | CDH12 |
| 20 | 51,600,000 | 51,750,000 | 689 | 835 | 0.628623898 | CDH12 |
| 20 | 51,675,000 | 51,825,000 | 690 | 1162 | 1.023011061 | |
| 20 | 51,750,000 | 51,900,000 | 691 | 1161 | 0.706257267 | |
| 20 | 51,825,000 | 51,975,000 | 692 | 1007 | 0.665203329 | |
| 20 | 51,900,000 | 52,050,000 | 693 | 1013 | 1.098958395 | |
| 20 | 51,975,000 | 52,125,000 | 694 | 878 | 0.695486196 | |
| 20 | 52,050,000 | 52,200,000 | 695 | 787 | 0.569462167 | |
| 20 | 52,125,000 | 52,275,000 | 696 | 1142 | 0.849749104 | |
| 20 | 52,200,000 | 52,350,000 | 697 | 1101 | 0.371055704 | |
| 20 | 52,275,000 | 52,425,000 | 698 | 599 | -0.859188549 | |
| 20 | 52,350,000 | 52,500,000 | 699 | 588 | -0.287817381 | |
| 20 | 52,425,000 | 52,575,000 | 700 | 935 | 0.029027261 | |
| 20 | 52,500,000 | 52,650,000 | 701 | 1303 | 0.371971889 | |
| 20 | 52,575,000 | 52,725,000 | 702 | 1412 | 0.270598848 | |
| 20 | 52,650,000 | 52,800,000 | 703 | 1613 | 0.319082292 | |
| 20 | 52,725,000 | 52,875,000 | 704 | 1672 | 0.556270715 | |
| 20 | 52,800,000 | 52,950,000 | 705 | 1437 | 1.050006315 | |
| 20 | 52,875,000 | 53,025,000 | 706 | 1322 | 0.942590542 | |
| 20 | 52,950,000 | 53,100,000 | 707 | 1409 | 0.000792737 | |
| 20 | 53,025,000 | 53,175,000 | 708 | 1281 | -0.702977718 | |
| 20 | 53,100,000 | 53,250,000 | 709 | 1089 | -0.632424242 | |
| 20 | 53,175,000 | 53,325,000 | 710 | 1086 | -1.695892812 | |
| 20 | 53,250,000 | 53,400,000 | 711 | 1420 | -2.196425216 | |
| 20 | 53,325,000 | 53,475,000 | 712 | 1894 | -1.497217315 | CDH18 |
| 20 | 53,400,000 | 53,550,000 | 713 | 1935 | -0.71164104 | CDH18 |
| 20 | 53,475,000 | 53,625,000 | 714 | 1663 | 0.198552607 | CDH18 |
| 20 | 53,550,000 | 53,700,000 | 715 | 1418 | -0.14152971 | CDH18 |
| 20 | 53,625,000 | 53,775,000 | 716 | 1323 | -0.557890978 | CDH18 |
| 20 | 53,700,000 | 53,850,000 | 717 | 1033 | 0.056106736 | CDH18 |
| 20 | 53,775,000 | 53,925,000 | 718 | 899 | 1.196613063 | CDH18 |
| 20 | 53,850,000 | 54,000,000 | 719 | 1045 | 0.878155712 | CDH18 |
| 20 | 53,925,000 | 54,075,000 | 720 | 1235 | 0.920205305 | CDH18 |
| 20 | 54,000,000 | 54,150,000 | 721 | 1246 | 0.710134062 | CDH18 |
| 20 | 54,075,000 | 54,225,000 | 722 | 931 | -0.293476132 | |
| 20 | 54,150,000 | 54,300,000 | 723 | 740 | -0.555316267 | |
| 20 | 54,225,000 | 54,375,000 | 724 | 596 | 0.450243156 | |
| 20 | 54,300,000 | 54,450,000 | 725 | 515 | -0.03052923 | |
| 20 | 54,375,000 | 54,525,000 | 726 | 1188 | 0.656686824 | |
| 20 | 54,450,000 | 54,600,000 | 727 | 1692 | 0.685448383 | |
| 20 | 54,525,000 | 54,675,000 | 728 | 1159 | 0.116220281 | |
| 20 | 54,600,000 | 54,750,000 | 729 | 980 | 0.673116815 | |
| 20 | 54,675,000 | 54,825,000 | 730 | 1168 | 1.108806285 | |
| 20 | 54,750,000 | 54,900,000 | 731 | 1383 | 1.028268772 | |
| 20 | 54,825,000 | 54,975,000 | 732 | 1439 | 0.652008979 | |
| 20 | 54,900,000 | 55,050,000 | 733 | 1222 | -0.475632583 | |
| 20 | 54,975,000 | 55,125,000 | 734 | 1101 | -0.957400255 | |
| 20 | 55,050,000 | 55,200,000 | 735 | 1149 | 0.564276521 | |
| 20 | 55,125,000 | 55,275,000 | 736 | 1257 | 1.038581354 | |
| 20 | 55,200,000 | 55,350,000 | 737 | 1105 | 0.49330579 | |
| 20 | 55,275,000 | 55,425,000 | 738 | 1166 | -0.651163446 | |
| 20 | 55,350,000 | 55,500,000 | 739 | 1415 | -1.2011354 | |

| | | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|--------|
| 20 | 55,425,000 | 55,575,000 | 740 | 1487 | -1.041562667 | | |
| 20 | 55,500,000 | 55,650,000 | 741 | 1487 | 0.410547664 | | |
| 20 | 55,575,000 | 55,725,000 | 742 | 1518 | 0.843734699 | ENSBTAG00000012971 | |
| 20 | 55,650,000 | 55,800,000 | 743 | 1044 | 0.760239445 | ENSBTAG00000005491,ENSBTAG00000012971 | |
| 20 | 55,725,000 | 55,875,000 | 744 | 621 | 0.498021018 | ENSBTAG00000005491 | |
| 20 | 55,800,000 | 55,950,000 | 745 | 1107 | -0.113698214 | | |
| 20 | 55,875,000 | 56,025,000 | 746 | 1369 | 0.255791218 | | |
| 20 | 55,950,000 | 56,100,000 | 747 | 954 | 0.581870782 | | |
| 20 | 56,025,000 | 56,175,000 | 748 | 911 | 0.203774777 | | |
| 20 | 56,100,000 | 56,250,000 | 749 | 858 | 0.818736395 | | |
| 20 | 56,175,000 | 56,325,000 | 750 | 913 | 1.104590112 | MYO10 | |
| 20 | 56,250,000 | 56,400,000 | 751 | 1067 | 0.707633842 | MYO10 | |
| 20 | 56,325,000 | 56,475,000 | 752 | 1039 | 0.596928826 | MYO10 | |
| 20 | 56,400,000 | 56,550,000 | 753 | 1123 | 0.773932443 | MYO10 | |
| 20 | 56,475,000 | 56,625,000 | 754 | 1319 | -0.321675692 | MYO10 | |
| 20 | 56,550,000 | 56,700,000 | 755 | 1754 | -0.073801814 | MYO10 | |
| 20 | 56,625,000 | 56,775,000 | 756 | 1775 | 0.186464165 | FAM134B,ZNF622 | |
| 20 | 56,700,000 | 56,850,000 | 757 | 1567 | -0.127257543 | FAM134B,ZNF622 | |
| 20 | 56,775,000 | 56,925,000 | 758 | 1487 | 0.482604127 | ZNF622 | |
| 20 | 56,850,000 | 57,000,000 | 759 | 1516 | 0.753449382 | | |
| 20 | 56,925,000 | 57,075,000 | 760 | 1594 | 0.321825746 | | 11-Mar |
| 20 | 57,000,000 | 57,150,000 | 761 | 1374 | 0.589547623 | | 11-Mar |
| 20 | 57,075,000 | 57,225,000 | 762 | 855 | 0.870002513 | | 11-Mar |
| 20 | 57,150,000 | 57,300,000 | 763 | 646 | 0.542357267 | | |
| 20 | 57,225,000 | 57,375,000 | 764 | 540 | 0.977970806 | FBXL7 | |
| 20 | 57,300,000 | 57,450,000 | 765 | 663 | -0.26770281 | FBXL7 | |
| 20 | 57,375,000 | 57,525,000 | 766 | 1084 | 0.158788926 | | |
| 20 | 57,450,000 | 57,600,000 | 767 | 984 | 0.677715629 | | |
| 20 | 57,525,000 | 57,675,000 | 768 | 744 | 0.662359404 | | |
| 20 | 57,600,000 | 57,750,000 | 769 | 842 | -3.115507783 | | |
| 20 | 57,675,000 | 57,825,000 | 770 | 815 | -3.253166173 | | |
| 20 | 57,750,000 | 57,900,000 | 771 | 782 | -0.354572692 | | |
| 20 | 57,825,000 | 57,975,000 | 772 | 668 | -0.886050794 | | |
| 20 | 57,900,000 | 58,050,000 | 773 | 710 | -0.491505604 | | |
| 20 | 57,975,000 | 58,125,000 | 774 | 1088 | -0.34715993 | | |
| 20 | 58,050,000 | 58,200,000 | 775 | 1098 | -0.193530849 | | |
| 20 | 58,125,000 | 58,275,000 | 776 | 749 | 0.134259476 | | |
| 20 | 58,200,000 | 58,350,000 | 777 | 610 | -0.850923968 | | |
| 20 | 58,275,000 | 58,425,000 | 778 | 856 | -0.541210716 | ANKH | |
| 20 | 58,350,000 | 58,500,000 | 779 | 914 | -0.031514532 | ANKH | |
| 20 | 58,425,000 | 58,575,000 | 780 | 949 | -1.636887184 | ANKH,OTULIN | |
| 20 | 58,500,000 | 58,650,000 | 781 | 905 | -3.189547306 | ANKH,MGC143209,OTULIN | |
| 20 | 58,575,000 | 58,725,000 | 782 | 986 | -0.718825517 | MGC143209,OTULIN,TRIO | |
| 20 | 58,650,000 | 58,800,000 | 783 | 1072 | 0.266370288 | MGC143209,TRIO | |
| 20 | 58,725,000 | 58,875,000 | 784 | 1062 | -0.087029364 | TRIO | |
| 20 | 58,800,000 | 58,950,000 | 785 | 1356 | -1.30203251 | TRIO | |
| 20 | 58,875,000 | 59,025,000 | 786 | 1093 | -1.418560386 | TRIO | |
| 20 | 58,950,000 | 59,100,000 | 787 | 618 | 1.020623692 | | |
| 20 | 59,025,000 | 59,175,000 | 788 | 1011 | 0.835613872 | | |
| 20 | 59,100,000 | 59,250,000 | 789 | 1139 | 0.654229865 | | |
| 20 | 59,175,000 | 59,325,000 | 790 | 834 | -0.904053488 | DNAH5 | |
| 20 | 59,250,000 | 59,400,000 | 791 | 724 | -0.882313555 | DNAH5 | |
| 20 | 59,325,000 | 59,475,000 | 792 | 1141 | -1.32031329 | DNAH5 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 20 | 59,400,000 | 59,550,000 | 793 | 1489 | -1.997415793 | DNAH5 |
| 20 | 59,475,000 | 59,625,000 | 794 | 972 | -1.089131057 | DNAH5 |
| 20 | 59,550,000 | 59,700,000 | 795 | 784 | 0.481608468 | DNAH5 |
| 20 | 59,625,000 | 59,775,000 | 796 | 703 | -0.014781868 | |
| 20 | 59,700,000 | 59,850,000 | 797 | 527 | -0.146722811 | |
| 20 | 59,775,000 | 59,925,000 | 798 | 851 | 0.0933347502 | |
| 20 | 59,850,000 | 60,000,000 | 799 | 1317 | 0.250712091 | |
| 20 | 59,925,000 | 60,075,000 | 800 | 1448 | 0.512263844 | |
| 20 | 60,000,000 | 60,150,000 | 801 | 1412 | 0.198554909 | |
| 20 | 60,075,000 | 60,225,000 | 802 | 1673 | -0.223716351 | |
| 20 | 60,150,000 | 60,300,000 | 803 | 1509 | 0.14494268 | |
| 20 | 60,225,000 | 60,375,000 | 804 | 1133 | 1.097602857 | |
| 20 | 60,300,000 | 60,450,000 | 805 | 1154 | 1.073203516 | |
| 20 | 60,375,000 | 60,525,000 | 806 | 1321 | 0.930219655 | |
| 20 | 60,450,000 | 60,600,000 | 807 | 1750 | 1.050387273 | |
| 20 | 60,525,000 | 60,675,000 | 808 | 1822 | 0.164976302 | |
| 20 | 60,600,000 | 60,750,000 | 809 | 1296 | -0.57558802 | |
| 20 | 60,675,000 | 60,825,000 | 810 | 1118 | -0.148092012 | |
| 20 | 60,750,000 | 60,900,000 | 811 | 1609 | 0.299608033 | |
| 20 | 60,825,000 | 60,975,000 | 812 | 1812 | 0.811468716 | |
| 20 | 60,900,000 | 61,050,000 | 813 | 1500 | 0.381742676 | |
| 20 | 60,975,000 | 61,125,000 | 814 | 1353 | -0.000264115 | |
| 20 | 61,050,000 | 61,200,000 | 815 | 1328 | 0.349555843 | |
| 20 | 61,125,000 | 61,275,000 | 816 | 1443 | 1.007204262 | |
| 20 | 61,200,000 | 61,350,000 | 817 | 1554 | 1.2841296 | |
| 20 | 61,275,000 | 61,425,000 | 818 | 1514 | 1.136537126 | |
| 20 | 61,350,000 | 61,500,000 | 819 | 1488 | 0.811904179 | |
| 20 | 61,425,000 | 61,575,000 | 820 | 1528 | 0.400412147 | |
| 20 | 61,500,000 | 61,650,000 | 821 | 1699 | 0.305950942 | |
| 20 | 61,575,000 | 61,725,000 | 822 | 1793 | 0.67330984 | |
| 20 | 61,650,000 | 61,800,000 | 823 | 1828 | 0.57803197 | |
| 20 | 61,725,000 | 61,875,000 | 824 | 1709 | 0.459249737 | |
| 20 | 61,800,000 | 61,950,000 | 825 | 1595 | -0.104995824 | CTNND2 |
| 20 | 61,875,000 | 62,025,000 | 826 | 1580 | 0.367958784 | CTNND2 |
| 20 | 61,950,000 | 62,100,000 | 827 | 1468 | 0.546429882 | CTNND2 |
| 20 | 62,025,000 | 62,175,000 | 828 | 1697 | 0.052335895 | CTNND2 |
| 20 | 62,100,000 | 62,250,000 | 829 | 1792 | -1.334381538 | CTNND2 |
| 20 | 62,175,000 | 62,325,000 | 830 | 1236 | -2.274792532 | CTNND2 |
| 20 | 62,250,000 | 62,400,000 | 831 | 973 | 0.093492755 | CTNND2 |
| 20 | 62,325,000 | 62,475,000 | 832 | 1066 | -1.296146325 | CTNND2 |
| 20 | 62,400,000 | 62,550,000 | 833 | 869 | -2.379126358 | CTNND2 |
| 20 | 62,475,000 | 62,625,000 | 834 | 995 | 0.493760563 | |
| 20 | 62,550,000 | 62,700,000 | 835 | 1485 | -1.480473938 | DAP |
| 20 | 62,625,000 | 62,775,000 | 836 | 1145 | -2.274073486 | ANKRD33B,DAP |
| 20 | 62,700,000 | 62,850,000 | 837 | 774 | -1.437478725 | ANKRD33B |
| 20 | 62,775,000 | 62,925,000 | 838 | 851 | -1.179980353 | ANKRD33B,ROPN1L |
| 20 | 62,850,000 | 63,000,000 | 839 | 488 | -0.917346988 | MARCH6,ROPN1L |
| 20 | 62,925,000 | 63,075,000 | 840 | 407 | 0.382286835 | CMBL,MARCH6,ROPN1L,ENSBTAG00000022809 |
| 20 | 63,000,000 | 63,150,000 | 841 | 578 | 0.732883514 | CCT5,CMBL,FAM173B,ENSBTAG00000022809 |
| 20 | 63,075,000 | 63,225,000 | 842 | 739 | 0.620811127 | CCT5,CMBL,FAM173B |
| 20 | 63,150,000 | 63,300,000 | 843 | 743 | 0.355346763 | |
| 20 | 63,225,000 | 63,375,000 | 844 | 712 | -0.00729787 | |
| 20 | 63,300,000 | 63,450,000 | 845 | 856 | -0.911980585 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 20 | 63,375,000 | 63,525,000 | 846 | 931 | -2.067406262 | |
| 20 | 63,450,000 | 63,600,000 | 847 | 786 | -2.211581024 | |
| 20 | 63,525,000 | 63,675,000 | 848 | 544 | -2.967400834 | |
| 20 | 63,600,000 | 63,750,000 | 849 | 565 | -1.939816019 | TAS2R1 |
| 20 | 63,675,000 | 63,825,000 | 850 | 524 | 0.121074141 | TAS2R1 |
| 20 | 63,750,000 | 63,900,000 | 851 | 478 | -0.134322799 | |
| 20 | 63,825,000 | 63,975,000 | 852 | 802 | 0.137923307 | |
| 20 | 63,900,000 | 64,050,000 | 853 | 1221 | -0.153714607 | |
| 20 | 63,975,000 | 64,125,000 | 854 | 1123 | -1.202271719 | |
| 20 | 64,050,000 | 64,200,000 | 855 | 1012 | -1.128942785 | SEMA5A |
| 20 | 64,125,000 | 64,275,000 | 856 | 1148 | -0.241680655 | SEMA5A |
| 20 | 64,200,000 | 64,350,000 | 857 | 1074 | -0.208508441 | SEMA5A |
| 20 | 64,275,000 | 64,425,000 | 858 | 1369 | 0.863768654 | SEMA5A |
| 20 | 64,350,000 | 64,500,000 | 859 | 1560 | 1.082958811 | SEMA5A |
| 20 | 64,425,000 | 64,575,000 | 860 | 1168 | 0.792602829 | |
| 20 | 64,500,000 | 64,650,000 | 861 | 1094 | 0.789091397 | |
| 20 | 64,575,000 | 64,725,000 | 862 | 869 | 0.837452687 | |
| 20 | 64,650,000 | 64,800,000 | 863 | 896 | 0.69464771 | |
| 20 | 64,725,000 | 64,875,000 | 864 | 852 | 0.469660804 | |
| 20 | 64,800,000 | 64,950,000 | 865 | 578 | -0.689867683 | |
| 20 | 64,875,000 | 65,025,000 | 866 | 809 | -1.442550868 | |
| 20 | 64,950,000 | 65,100,000 | 867 | 937 | -2.484599535 | |
| 20 | 65,025,000 | 65,175,000 | 868 | 1122 | -1.539849639 | |
| 20 | 65,100,000 | 65,250,000 | 869 | 1440 | -0.164893941 | |
| 20 | 65,175,000 | 65,325,000 | 870 | 1898 | 0.409065852 | |
| 20 | 65,250,000 | 65,400,000 | 871 | 1951 | 0.278165067 | |
| 20 | 65,325,000 | 65,475,000 | 872 | 1716 | 0.534161999 | FASTKD3,MTRR |
| 20 | 65,400,000 | 65,550,000 | 873 | 1635 | 0.755573679 | ADCY2,FASTKD3,MTRR |
| 20 | 65,475,000 | 65,625,000 | 874 | 1845 | 0.064487645 | ADCY2 |
| 20 | 65,550,000 | 65,700,000 | 875 | 2043 | 0.313033509 | ADCY2 |
| 20 | 65,625,000 | 65,775,000 | 876 | 1771 | 0.593588716 | ADCY2 |
| 20 | 65,700,000 | 65,850,000 | 877 | 1579 | 0.143465257 | |
| 20 | 65,775,000 | 65,925,000 | 878 | 1550 | 0.350031807 | |
| 20 | 65,850,000 | 66,000,000 | 879 | 1575 | 0.588849817 | |
| 20 | 65,925,000 | 66,075,000 | 880 | 1559 | 0.393332029 | |
| 20 | 66,000,000 | 66,150,000 | 881 | 1785 | 0.529053584 | |
| 20 | 66,075,000 | 66,225,000 | 882 | 1985 | -0.835434069 | |
| 20 | 66,150,000 | 66,300,000 | 883 | 1754 | -1.227464273 | |
| 20 | 66,225,000 | 66,375,000 | 884 | 1805 | 0.878109787 | ENSBTAG00000032442 |
| 20 | 66,300,000 | 66,450,000 | 885 | 2170 | 0.925995277 | ENSBTAG00000032442 |
| 20 | 66,375,000 | 66,525,000 | 886 | 2091 | 0.842916183 | |
| 20 | 66,450,000 | 66,600,000 | 887 | 1393 | 0.760173643 | PAPD7 |
| 20 | 66,525,000 | 66,675,000 | 888 | 699 | 0.564653882 | PAPD7 |
| 20 | 66,600,000 | 66,750,000 | 889 | 489 | 0.316235024 | NSUN2,PAPD7,SRD5A1 |
| 20 | 66,675,000 | 66,825,000 | 890 | 708 | -0.032321467 | NSUN2,SRD5A1 |
| 20 | 66,750,000 | 66,900,000 | 891 | 730 | 0.309209626 | NSUN2 |
| 20 | 66,825,000 | 66,975,000 | 892 | 605 | 0.620122101 | MED10 |
| 20 | 66,900,000 | 67,050,000 | 893 | 1317 | 0.088176565 | MED10 |
| 20 | 66,975,000 | 67,125,000 | 894 | 1915 | -1.152912403 | |
| 20 | 67,050,000 | 67,200,000 | 895 | 1956 | -0.847149966 | |
| 20 | 67,125,000 | 67,275,000 | 896 | 1936 | -0.330706418 | |
| 20 | 67,200,000 | 67,350,000 | 897 | 1816 | -1.378492463 | |
| 20 | 67,275,000 | 67,425,000 | 898 | 1594 | -0.873077865 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 20 | 67,350,000 | 67,500,000 | 899 | 1192 | -0.322059269 | |
| 20 | 67,425,000 | 67,575,000 | 900 | 850 | -1.022273729 | |
| 20 | 67,500,000 | 67,650,000 | 901 | 1062 | 0.260825793 | |
| 20 | 67,575,000 | 67,725,000 | 902 | 1555 | -0.108570682 | |
| 20 | 67,650,000 | 67,800,000 | 903 | 1563 | -0.502117262 | ICE1 |
| 20 | 67,725,000 | 67,875,000 | 904 | 1171 | -0.33623006 | ICE1 |
| 20 | 67,800,000 | 67,950,000 | 905 | 784 | -0.325801416 | ADAMTS16,ICE1 |
| 20 | 67,875,000 | 68,025,000 | 906 | 572 | 0.351338203 | ADAMTS16 |
| 20 | 67,950,000 | 68,100,000 | 907 | 440 | 0.381567665 | ADAMTS16 |
| 20 | 68,025,000 | 68,175,000 | 908 | 529 | 0.373795088 | ADAMTS16 |
| 20 | 68,100,000 | 68,250,000 | 909 | 952 | 0.790960629 | |
| 20 | 68,175,000 | 68,325,000 | 910 | 939 | 0.888472838 | |
| 20 | 68,250,000 | 68,400,000 | 911 | 618 | -0.235778312 | |
| 20 | 68,325,000 | 68,475,000 | 912 | 1015 | -1.095132038 | |
| 20 | 68,400,000 | 68,550,000 | 913 | 1421 | -0.267046967 | |
| 20 | 68,475,000 | 68,625,000 | 914 | 1446 | 0.413583771 | |
| 20 | 68,550,000 | 68,700,000 | 915 | 1119 | 0.377403136 | |
| 20 | 68,625,000 | 68,775,000 | 916 | 1073 | -0.147839212 | |
| 20 | 68,700,000 | 68,850,000 | 917 | 1243 | -0.0324646 | |
| 20 | 68,775,000 | 68,925,000 | 918 | 1356 | -0.039965422 | |
| 20 | 68,850,000 | 69,000,000 | 919 | 1559 | 0.08375092 | |
| 20 | 68,925,000 | 69,075,000 | 920 | 1548 | -0.639689511 | |
| 20 | 69,000,000 | 69,150,000 | 921 | 1725 | -0.144865209 | |
| 20 | 69,075,000 | 69,225,000 | 922 | 1693 | 0.474464532 | |
| 20 | 69,150,000 | 69,300,000 | 923 | 1354 | 0.124558175 | |
| 20 | 69,225,000 | 69,375,000 | 924 | 1178 | 0.18912189 | |
| 20 | 69,300,000 | 69,450,000 | 925 | 1071 | -0.063216028 | |
| 20 | 69,375,000 | 69,525,000 | 926 | 1027 | -0.040610825 | IRX1 |
| 20 | 69,450,000 | 69,600,000 | 927 | 999 | 0.604523171 | IRX1 |
| 20 | 69,525,000 | 69,675,000 | 928 | 925 | 0.802592603 | |
| 20 | 69,600,000 | 69,750,000 | 929 | 1042 | 0.704711817 | |
| 20 | 69,675,000 | 69,825,000 | 930 | 1140 | 0.443330808 | |
| 20 | 69,750,000 | 69,900,000 | 931 | 1170 | 0.254131856 | |
| 20 | 69,825,000 | 69,975,000 | 932 | 1284 | 0.875224846 | |
| 20 | 69,900,000 | 70,050,000 | 933 | 1436 | 1.079579207 | |
| 20 | 69,975,000 | 70,125,000 | 934 | 1113 | 0.893246304 | |
| 20 | 70,050,000 | 70,200,000 | 935 | 462 | 0.279865471 | IRX2 |
| 20 | 70,125,000 | 70,275,000 | 936 | 741 | 0.386212244 | IRX2 |
| 20 | 70,200,000 | 70,350,000 | 937 | 1372 | 0.762417851 | |
| 20 | 70,275,000 | 70,425,000 | 938 | 1312 | 0.009179631 | |
| 20 | 70,350,000 | 70,500,000 | 939 | 1288 | -3.133629531 | |
| 20 | 70,425,000 | 70,575,000 | 940 | 1510 | -3.010121115 | |
| 20 | 70,500,000 | 70,650,000 | 941 | 1309 | -1.362042399 | |
| 20 | 70,575,000 | 70,725,000 | 942 | 1024 | 0.713630021 | |
| 20 | 70,650,000 | 70,800,000 | 943 | 817 | 0.485147977 | |
| 20 | 70,725,000 | 70,875,000 | 944 | 494 | -0.119832051 | |
| 20 | 70,800,000 | 70,950,000 | 945 | 388 | 1.278276429 | IRX4 |
| 20 | 70,875,000 | 71,025,000 | 946 | 477 | 1.300743697 | IRX4,MRPL36,NDUFS6 |
| 20 | 70,950,000 | 71,100,000 | 947 | 797 | 1.054391464 | MRPL36,NDUFS6 |
| 20 | 71,025,000 | 71,175,000 | 948 | 1122 | 0.75130388 | LPCAT1 |
| 20 | 71,100,000 | 71,250,000 | 949 | 1237 | 0.163484574 | CLPTM1L,LPCAT1,SLC6A3 |
| 20 | 71,175,000 | 71,325,000 | 950 | 1145 | -0.1036875 | CLPTM1L,SLC6A18,SLC6A19,SLC6A3,TERT |
| 20 | 71,250,000 | 71,400,000 | 951 | 975 | -0.378266285 | SLC12A7,SLC6A18,SLC6A19,TERT |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 20 | 71,325,000 | 71,475,000 | 952 | 1024 | -0.414708216 | NKD2,SLC12A7,ENSBTAG00000046181 |
| 20 | 71,400,000 | 71,550,000 | 953 | 1315 | -0.886699387 | BRD9,NKD2,SLC12A7,TRIP13,ENSBTAG00000034431,ENSBTAG00000046181 |
| 20 | 71,475,000 | 71,625,000 | 954 | 1233 | -1.063743849 | BRD9,CEP72,TPPP,TRIP13,ENSBTAG00000034431 |
| 20 | 71,550,000 | 71,700,000 | 955 | 1351 | -0.444155802 | CEP72,TPPP |
| 20 | 71,625,000 | 71,775,000 | 956 | 1439 | -0.037207116 | CEP72,EXOC3,SLC9A3,ENSBTAG00000039409 |
| 20 | 71,700,000 | 71,850,000 | 957 | 1149 | 0.695251328 | AHRR,EXOC3,SLC9A3,ENSBTAG00000039409 |
| 20 | 71,775,000 | 71,925,000 | 958 | 1251 | 0.817562873 | AHRR,EXOC3,PDCD6,ENSBTAG00000048135 |
| 20 | 71,850,000 | 72,000,000 | 959 | 1372 | 0.896195099 | AHRR,CCDC127,LRRC14B,PDCD6,SDHA,ENSBTAG00000048135 |
| 20 | 71,925,000 | 72,042,655 | 960 | 914 | 1.214606129 | CCDC127,LRRC14B,PDCD6,SDHA,ENSBTAG00000034577 |
| 21 | 0 | 150,000 | 1 | 876 | 1.276233574 | SNRPN |
| 21 | 75,000 | 225,000 | 2 | 1059 | 1.267001918 | |
| 21 | 150,000 | 300,000 | 3 | 703 | 1.175139548 | |
| 21 | 225,000 | 375,000 | 4 | 531 | 1.30753723 | |
| 21 | 300,000 | 450,000 | 5 | 406 | 1.355144893 | |
| 21 | 375,000 | 525,000 | 6 | 451 | 1.25312296 | |
| 21 | 450,000 | 600,000 | 7 | 455 | 0.855569997 | |
| 21 | 525,000 | 675,000 | 8 | 339 | 0.368759248 | |
| 21 | 600,000 | 750,000 | 9 | 297 | 0.365850175 | NDN |
| 21 | 675,000 | 825,000 | 10 | 384 | 0.799930996 | MAGEL2,NDN |
| 21 | 750,000 | 900,000 | 11 | 341 | 0.843126655 | MAGEL2 |
| 21 | 825,000 | 975,000 | 12 | 234 | 0.225549846 | |
| 21 | 900,000 | 1,050,000 | 13 | 262 | 0.012647071 | |
| 21 | 975,000 | 1,125,000 | 14 | 376 | 0.506056132 | |
| 21 | 1,050,000 | 1,200,000 | 15 | 419 | 0.856646708 | |
| 21 | 1,125,000 | 1,275,000 | 16 | 470 | 0.636939343 | |
| 21 | 1,200,000 | 1,350,000 | 17 | 733 | 0.762632639 | |
| 21 | 1,275,000 | 1,425,000 | 18 | 658 | 0.821272356 | |
| 21 | 1,350,000 | 1,500,000 | 19 | 414 | 0.374522171 | FZD3 |
| 21 | 1,425,000 | 1,575,000 | 20 | 410 | 0.018934591 | FZD3 |
| 21 | 1,500,000 | 1,650,000 | 21 | 719 | -0.644338858 | FZD3,ENSBTAG00000023079 |
| 21 | 1,575,000 | 1,725,000 | 22 | 977 | -1.373988927 | ENSBTAG00000023079 |
| 21 | 1,650,000 | 1,800,000 | 23 | 1011 | -1.513629449 | ENSBTAG00000006648 |
| 21 | 1,725,000 | 1,875,000 | 24 | 926 | -1.026526815 | ENSBTAG00000006648,ENSBTAG00000013567 |
| 21 | 1,800,000 | 1,950,000 | 25 | 538 | -0.54889256 | ENSBTAG00000013567,ENSBTAG00000035333 |
| 21 | 1,875,000 | 2,025,000 | 26 | 357 | 0.245238227 | ENSBTAG00000035333 |
| 21 | 1,950,000 | 2,100,000 | 27 | 255 | 0.86603573 | |
| 21 | 2,025,000 | 2,175,000 | 28 | 146 | 0.890931747 | |
| 21 | 2,100,000 | 2,250,000 | 29 | 205 | 1.127148889 | |
| 21 | 2,175,000 | 2,325,000 | 30 | 215 | 0.904372274 | |
| 21 | 2,250,000 | 2,400,000 | 31 | 211 | 0.276267701 | UBE3A |
| 21 | 2,325,000 | 2,475,000 | 32 | 266 | 0.011915459 | UBE3A |
| 21 | 2,400,000 | 2,550,000 | 33 | 273 | -0.163210214 | UBE3A |
| 21 | 2,475,000 | 2,625,000 | 34 | 286 | -0.068101962 | |
| 21 | 2,550,000 | 2,700,000 | 35 | 686 | -0.432373696 | |
| 21 | 2,625,000 | 2,775,000 | 36 | 1316 | 0.128716508 | |
| 21 | 2,700,000 | 2,850,000 | 37 | 1612 | 0.216173028 | ATP10A |
| 21 | 2,775,000 | 2,925,000 | 38 | 1578 | 0.201346051 | ATP10A |
| 21 | 2,850,000 | 3,000,000 | 39 | 1141 | 0.021075949 | ATP10A |
| 21 | 2,925,000 | 3,075,000 | 40 | 654 | -0.824439059 | ATP10A |
| 21 | 3,000,000 | 3,150,000 | 41 | 946 | -0.874335815 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--------------------------|
| 21 | 3,075,000 | 3,225,000 | 42 | 1612 | -0.341167701 | |
| 21 | 3,150,000 | 3,300,000 | 43 | 1436 | 0.479862805 | |
| 21 | 3,225,000 | 3,375,000 | 44 | 1336 | 1.003281838 | |
| 21 | 3,300,000 | 3,450,000 | 45 | 1357 | 0.790146398 | |
| 21 | 3,375,000 | 3,525,000 | 46 | 971 | -0.747200898 | |
| 21 | 3,450,000 | 3,600,000 | 47 | 1119 | 0.405006739 | |
| 21 | 3,525,000 | 3,675,000 | 48 | 839 | 1.448120567 | |
| 21 | 3,600,000 | 3,750,000 | 49 | 488 | 0.682249273 | |
| 21 | 3,675,000 | 3,825,000 | 50 | 577 | 0.672898931 | |
| 21 | 3,750,000 | 3,900,000 | 51 | 758 | 0.350491454 | |
| 21 | 3,825,000 | 3,975,000 | 52 | 770 | -0.071525194 | |
| 21 | 3,900,000 | 4,050,000 | 53 | 542 | -0.598133379 | GABRB3 |
| 21 | 3,975,000 | 4,125,000 | 54 | 654 | -0.529007171 | GABRB3 |
| 21 | 4,050,000 | 4,200,000 | 55 | 897 | 0.7717186 | GABRB3 |
| 21 | 4,125,000 | 4,275,000 | 56 | 1024 | 0.98401048 | |
| 21 | 4,200,000 | 4,350,000 | 57 | 884 | 0.60158598 | |
| 21 | 4,275,000 | 4,425,000 | 58 | 641 | 0.413703524 | GABRA5 |
| 21 | 4,350,000 | 4,500,000 | 59 | 473 | -0.199388241 | GABRA5 |
| 21 | 4,425,000 | 4,575,000 | 60 | 410 | 0.027350004 | GABRA5 |
| 21 | 4,500,000 | 4,650,000 | 61 | 315 | 1.167741207 | |
| 21 | 4,575,000 | 4,725,000 | 62 | 255 | 1.434844826 | |
| 21 | 4,650,000 | 4,800,000 | 63 | 697 | 1.357046575 | |
| 21 | 4,725,000 | 4,875,000 | 64 | 815 | 1.339949906 | |
| 21 | 4,800,000 | 4,950,000 | 65 | 551 | 1.271546597 | |
| 21 | 4,875,000 | 5,025,000 | 66 | 502 | 1.222511195 | ENSBTAG00000035184 |
| 21 | 4,950,000 | 5,100,000 | 67 | 820 | 0.22677533 | ENSBTAG00000035184 |
| 21 | 5,025,000 | 5,175,000 | 68 | 791 | 0.175559316 | |
| 21 | 5,100,000 | 5,250,000 | 69 | 441 | 1.02479536 | |
| 21 | 5,175,000 | 5,325,000 | 70 | 630 | 0.69122435 | |
| 21 | 5,250,000 | 5,400,000 | 71 | 820 | 0.050769316 | VIMP |
| 21 | 5,325,000 | 5,475,000 | 72 | 935 | -0.993916932 | CHSY,VIMP |
| 21 | 5,400,000 | 5,550,000 | 73 | 1185 | -0.293551744 | CHSY |
| 21 | 5,475,000 | 5,625,000 | 74 | 1431 | -0.324911244 | CHSY |
| 21 | 5,550,000 | 5,700,000 | 75 | 1256 | -1.222337589 | LRRK1 |
| 21 | 5,625,000 | 5,775,000 | 76 | 1295 | -1.118915904 | LRRK1 |
| 21 | 5,700,000 | 5,850,000 | 77 | 1176 | -0.839204043 | ALDH1A3,LRRK1 |
| 21 | 5,775,000 | 5,925,000 | 78 | 938 | -0.425115285 | ALDH1A3 |
| 21 | 5,850,000 | 6,000,000 | 79 | 1294 | -0.57415431 | |
| 21 | 5,925,000 | 6,075,000 | 80 | 1704 | -0.14729764 | |
| 21 | 6,000,000 | 6,150,000 | 81 | 1559 | 0.26306523 | ENSBTAG00000048048 |
| 21 | 6,075,000 | 6,225,000 | 82 | 1004 | 0.175086277 | ASB7,ENSBTAG00000048048 |
| 21 | 6,150,000 | 6,300,000 | 83 | 697 | -1.125081109 | ASB7,LASS3,LINS |
| 21 | 6,225,000 | 6,375,000 | 84 | 527 | -1.696174238 | LASS3,LINS |
| 21 | 6,300,000 | 6,450,000 | 85 | 448 | 0.475230153 | LASS3 |
| 21 | 6,375,000 | 6,525,000 | 86 | 477 | 0.32122448 | ADAMTS17,LASS3 |
| 21 | 6,450,000 | 6,600,000 | 87 | 712 | 0.569416113 | ADAMTS17 |
| 21 | 6,525,000 | 6,675,000 | 88 | 1122 | 0.450571892 | ADAMTS17 |
| 21 | 6,600,000 | 6,750,000 | 89 | 1090 | 0.12976832 | ADAMTS17 |
| 21 | 6,675,000 | 6,825,000 | 90 | 769 | -0.467314521 | ADAMTS17 |
| 21 | 6,750,000 | 6,900,000 | 91 | 590 | 0.025435054 | ADAMTS17 |
| 21 | 6,825,000 | 6,975,000 | 92 | 580 | -2.00852343 | ADAMTS17 |
| 21 | 6,900,000 | 7,050,000 | 93 | 631 | -5.100811288 | ADAMTS17,MEF2A,MGC155141 |
| 21 | 6,975,000 | 7,125,000 | 94 | 615 | -5.526063333 | MEF2A,MGC155141 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------|
| 21 | 7,050,000 | 7,200,000 | 95 | 658 | -4.019653564 | MEF2A |
| 21 | 7,125,000 | 7,275,000 | 96 | 894 | -0.882433117 | MEF2A |
| 21 | 7,200,000 | 7,350,000 | 97 | 1211 | 0.665161548 | MEF2A |
| 21 | 7,275,000 | 7,425,000 | 98 | 1125 | 0.885502533 | LRRC28 |
| 21 | 7,350,000 | 7,500,000 | 99 | 605 | 1.014584349 | LRRC28 |
| 21 | 7,425,000 | 7,575,000 | 100 | 342 | 1.164772197 | LRRC28 |
| 21 | 7,500,000 | 7,650,000 | 101 | 306 | 1.294646106 | LRRC28,TTC23 |
| 21 | 7,575,000 | 7,725,000 | 102 | 247 | -0.596553095 | LRRC28,TTC23 |
| 21 | 7,650,000 | 7,800,000 | 103 | 289 | -1.535283811 | SYNM,TTC23 |
| 21 | 7,725,000 | 7,875,000 | 104 | 365 | -0.443032332 | SYNM,TTC23 |
| 21 | 7,800,000 | 7,950,000 | 105 | 504 | 0.550261953 | |
| 21 | 7,875,000 | 8,025,000 | 106 | 513 | -0.003158075 | |
| 21 | 7,950,000 | 8,100,000 | 107 | 709 | -0.839927996 | |
| 21 | 8,025,000 | 8,175,000 | 108 | 706 | -0.317401001 | |
| 21 | 8,100,000 | 8,250,000 | 109 | 422 | 0.23204803 | IGF1R |
| 21 | 8,175,000 | 8,325,000 | 110 | 480 | 0.207327709 | IGF1R,PGPEP1L |
| 21 | 8,250,000 | 8,400,000 | 111 | 746 | 0.164092857 | FAM169B,IGF1R,PGPEP1L |
| 21 | 8,325,000 | 8,475,000 | 112 | 1157 | 0.066052265 | FAM169B |
| 21 | 8,400,000 | 8,550,000 | 113 | 1403 | 0.187352116 | FAM169B |
| 21 | 8,475,000 | 8,625,000 | 114 | 1310 | 0.370897833 | |
| 21 | 8,550,000 | 8,700,000 | 115 | 1203 | 0.5630187 | |
| 21 | 8,625,000 | 8,775,000 | 116 | 1267 | 0.001733885 | |
| 21 | 8,700,000 | 8,850,000 | 117 | 1397 | -0.413006775 | |
| 21 | 8,775,000 | 8,925,000 | 118 | 1335 | 0.228474923 | ARRDC4 |
| 21 | 8,850,000 | 9,000,000 | 119 | 1113 | 0.092757173 | ARRDC4 |
| 21 | 8,925,000 | 9,075,000 | 120 | 1179 | -0.488396704 | ARRDC4 |
| 21 | 9,000,000 | 9,150,000 | 121 | 1387 | -0.608238326 | |
| 21 | 9,075,000 | 9,225,000 | 122 | 1574 | -0.098589863 | |
| 21 | 9,150,000 | 9,300,000 | 123 | 1700 | 0.816387533 | |
| 21 | 9,225,000 | 9,375,000 | 124 | 1758 | 0.92660838 | |
| 21 | 9,300,000 | 9,450,000 | 125 | 1907 | 0.920451011 | |
| 21 | 9,375,000 | 9,525,000 | 126 | 1516 | 0.873755241 | |
| 21 | 9,450,000 | 9,600,000 | 127 | 1013 | 0.932291584 | |
| 21 | 9,525,000 | 9,675,000 | 128 | 1386 | -0.037926154 | ENSBTAG00000046611 |
| 21 | 9,600,000 | 9,750,000 | 129 | 1225 | -0.526514622 | ENSBTAG00000046611 |
| 21 | 9,675,000 | 9,825,000 | 130 | 966 | -0.516411481 | |
| 21 | 9,750,000 | 9,900,000 | 131 | 1319 | -0.19398846 | |
| 21 | 9,825,000 | 9,975,000 | 132 | 997 | 0.394673166 | |
| 21 | 9,900,000 | 10,050,000 | 133 | 686 | 0.706109249 | |
| 21 | 9,975,000 | 10,125,000 | 134 | 750 | 0.776872991 | |
| 21 | 10,050,000 | 10,200,000 | 135 | 745 | 0.300338611 | |
| 21 | 10,125,000 | 10,275,000 | 136 | 669 | 0.044341935 | |
| 21 | 10,200,000 | 10,350,000 | 137 | 608 | 0.243510475 | |
| 21 | 10,275,000 | 10,425,000 | 138 | 824 | 0.095796782 | |
| 21 | 10,350,000 | 10,500,000 | 139 | 1056 | -0.037264756 | |
| 21 | 10,425,000 | 10,575,000 | 140 | 768 | 0.134967802 | |
| 21 | 10,500,000 | 10,650,000 | 141 | 468 | 0.085818591 | |
| 21 | 10,575,000 | 10,725,000 | 142 | 539 | -0.576375256 | |
| 21 | 10,650,000 | 10,800,000 | 143 | 474 | -0.191740233 | NR2F2 |
| 21 | 10,725,000 | 10,875,000 | 144 | 371 | 0.88224011 | NR2F2 |
| 21 | 10,800,000 | 10,950,000 | 145 | 465 | 0.217245281 | NR2F2 |
| 21 | 10,875,000 | 11,025,000 | 146 | 815 | 0.079434912 | |
| 21 | 10,950,000 | 11,100,000 | 147 | 1001 | 0.438488646 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 21 | 11,025,000 | 11,175,000 | 148 | 960 | -0.627108529 | |
| 21 | 11,100,000 | 11,250,000 | 149 | 829 | -0.691968148 | |
| 21 | 11,175,000 | 11,325,000 | 150 | 554 | 0.229615542 | |
| 21 | 11,250,000 | 11,400,000 | 151 | 764 | -1.158836409 | |
| 21 | 11,325,000 | 11,475,000 | 152 | 1015 | -0.762811083 | |
| 21 | 11,400,000 | 11,550,000 | 153 | 935 | 0.416033561 | |
| 21 | 11,475,000 | 11,625,000 | 154 | 823 | 0.40747714 | |
| 21 | 11,550,000 | 11,700,000 | 155 | 842 | 0.261992198 | |
| 21 | 11,625,000 | 11,775,000 | 156 | 994 | -1.333762195 | |
| 21 | 11,700,000 | 11,850,000 | 157 | 867 | -3.042093328 | |
| 21 | 11,775,000 | 11,925,000 | 158 | 832 | -1.518881005 | |
| 21 | 11,850,000 | 12,000,000 | 159 | 776 | 0.257683696 | |
| 21 | 11,925,000 | 12,075,000 | 160 | 757 | 0.450465357 | |
| 21 | 12,000,000 | 12,150,000 | 161 | 872 | 0.334274842 | |
| 21 | 12,075,000 | 12,225,000 | 162 | 902 | 0.527259785 | |
| 21 | 12,150,000 | 12,300,000 | 163 | 1252 | -0.674950668 | |
| 21 | 12,225,000 | 12,375,000 | 164 | 1349 | -0.479449528 | |
| 21 | 12,300,000 | 12,450,000 | 165 | 1042 | 0.521030794 | |
| 21 | 12,375,000 | 12,525,000 | 166 | 948 | -0.535347746 | |
| 21 | 12,450,000 | 12,600,000 | 167 | 1045 | -0.677354598 | |
| 21 | 12,525,000 | 12,675,000 | 168 | 939 | -0.031361342 | |
| 21 | 12,600,000 | 12,750,000 | 169 | 817 | 0.045371684 | |
| 21 | 12,675,000 | 12,825,000 | 170 | 1094 | 0.255132061 | |
| 21 | 12,750,000 | 12,900,000 | 171 | 1281 | 0.747355655 | MCTP2 |
| 21 | 12,825,000 | 12,975,000 | 172 | 1348 | 0.927604159 | MCTP2 |
| 21 | 12,900,000 | 13,050,000 | 173 | 1568 | 0.898428323 | MCTP2 |
| 21 | 12,975,000 | 13,125,000 | 174 | 1702 | 0.639634126 | MCTP2 |
| 21 | 13,050,000 | 13,200,000 | 175 | 1753 | -1.214996283 | MCTP2 |
| 21 | 13,125,000 | 13,275,000 | 176 | 1362 | -1.892093348 | |
| 21 | 13,200,000 | 13,350,000 | 177 | 730 | -0.281576557 | |
| 21 | 13,275,000 | 13,425,000 | 178 | 1103 | -0.788858581 | ENSBTAG00000033335 |
| 21 | 13,350,000 | 13,500,000 | 179 | 1310 | -0.507963707 | ENSBTAG00000033335 |
| 21 | 13,425,000 | 13,575,000 | 180 | 929 | -1.133448633 | |
| 21 | 13,500,000 | 13,650,000 | 181 | 849 | -1.47149624 | |
| 21 | 13,575,000 | 13,725,000 | 182 | 959 | -0.120325779 | |
| 21 | 13,650,000 | 13,800,000 | 183 | 1191 | -0.561692616 | |
| 21 | 13,725,000 | 13,875,000 | 184 | 1111 | -0.629541325 | |
| 21 | 13,800,000 | 13,950,000 | 185 | 1029 | 0.226227619 | |
| 21 | 13,875,000 | 14,025,000 | 186 | 861 | 0.53947704 | |
| 21 | 13,950,000 | 14,100,000 | 187 | 694 | 0.344638517 | |
| 21 | 14,025,000 | 14,175,000 | 188 | 724 | 0.296653626 | |
| 21 | 14,100,000 | 14,250,000 | 189 | 1101 | -0.074995322 | |
| 21 | 14,175,000 | 14,325,000 | 190 | 1226 | -0.248227851 | ENSBTAG00000027075 |
| 21 | 14,250,000 | 14,400,000 | 191 | 741 | -0.548566486 | CHD2, RGMA, ENSBTAG00000027075 |
| 21 | 14,325,000 | 14,475,000 | 192 | 387 | -0.555040951 | CHD2, RGMA |
| 21 | 14,400,000 | 14,550,000 | 193 | 266 | -1.32959297 | CHD2 |
| 21 | 14,475,000 | 14,625,000 | 194 | 581 | -1.414522602 | CHD2 |
| 21 | 14,550,000 | 14,700,000 | 195 | 1235 | -0.043566447 | FAM174B |
| 21 | 14,625,000 | 14,775,000 | 196 | 1010 | -0.113668205 | FAM174B |
| 21 | 14,700,000 | 14,850,000 | 197 | 448 | -0.022830173 | FAM174B |
| 21 | 14,775,000 | 14,925,000 | 198 | 873 | 1.156740805 | ST8SIA2 |
| 21 | 14,850,000 | 15,000,000 | 199 | 1203 | 1.176243134 | ST8SIA2 |
| 21 | 14,925,000 | 15,075,000 | 200 | 1481 | 0.179018249 | ST8SIA2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 21 | 15,000,000 | 15,150,000 | 201 | 1657 | -0.030096819 | |
| 21 | 15,075,000 | 15,225,000 | 202 | 1378 | -0.12064831 | SLCO3A1 |
| 21 | 15,150,000 | 15,300,000 | 203 | 1083 | -0.541997188 | SLCO3A1 |
| 21 | 15,225,000 | 15,375,000 | 204 | 1232 | 1.04211218 | SLCO3A1 |
| 21 | 15,300,000 | 15,450,000 | 205 | 1767 | 0.831161047 | SLCO3A1 |
| 21 | 15,375,000 | 15,525,000 | 206 | 1551 | 0.104139737 | SLCO3A1 |
| 21 | 15,450,000 | 15,600,000 | 207 | 1097 | 0.092156069 | SLCO3A1 |
| 21 | 15,525,000 | 15,675,000 | 208 | 1142 | 0.291923008 | SLCO3A1 |
| 21 | 15,600,000 | 15,750,000 | 209 | 996 | 0.711485399 | |
| 21 | 15,675,000 | 15,825,000 | 210 | 649 | 0.987670859 | |
| 21 | 15,750,000 | 15,900,000 | 211 | 623 | 0.904627727 | |
| 21 | 15,825,000 | 15,975,000 | 212 | 722 | 0.896282986 | |
| 21 | 15,900,000 | 16,050,000 | 213 | 1103 | 1.018197224 | ENSBTAG00000021064 |
| 21 | 15,975,000 | 16,125,000 | 214 | 1408 | 1.01733398 | ENSBTAG00000021064 |
| 21 | 16,050,000 | 16,200,000 | 215 | 1444 | 0.081236724 | ENSBTAG00000021064 |
| 21 | 16,125,000 | 16,275,000 | 216 | 1551 | -0.30440421 | SV2B |
| 21 | 16,200,000 | 16,350,000 | 217 | 1111 | -0.31102219 | SV2B |
| 21 | 16,275,000 | 16,425,000 | 218 | 680 | -0.50576119 | SV2B |
| 21 | 16,350,000 | 16,500,000 | 219 | 538 | 0.976667763 | SV2B |
| 21 | 16,425,000 | 16,575,000 | 220 | 395 | 0.992982569 | SV2B |
| 21 | 16,500,000 | 16,650,000 | 221 | 469 | 0.192073871 | |
| 21 | 16,575,000 | 16,725,000 | 222 | 552 | -1.149111309 | AKAP13 |
| 21 | 16,650,000 | 16,800,000 | 223 | 668 | -1.21323182 | AKAP13 |
| 21 | 16,725,000 | 16,875,000 | 224 | 990 | 0.471680111 | AKAP13 |
| 21 | 16,800,000 | 16,950,000 | 225 | 1080 | 0.737876042 | AKAP13,KLHL25 |
| 21 | 16,875,000 | 17,025,000 | 226 | 1185 | 0.662521852 | AKAP13,KLHL25 |
| 21 | 16,950,000 | 17,100,000 | 227 | 1598 | 0.545241125 | KLHL25 |
| 21 | 17,025,000 | 17,175,000 | 228 | 1592 | 0.515583197 | |
| 21 | 17,100,000 | 17,250,000 | 229 | 1028 | 0.81111607 | |
| 21 | 17,175,000 | 17,325,000 | 230 | 1246 | 1.166015702 | |
| 21 | 17,250,000 | 17,400,000 | 231 | 1497 | 0.493534507 | |
| 21 | 17,325,000 | 17,475,000 | 232 | 874 | -1.049625151 | |
| 21 | 17,400,000 | 17,550,000 | 233 | 597 | -1.984272933 | |
| 21 | 17,475,000 | 17,625,000 | 234 | 656 | -0.873908821 | |
| 21 | 17,550,000 | 17,700,000 | 235 | 751 | 0.348849564 | |
| 21 | 17,625,000 | 17,775,000 | 236 | 768 | 0.40872746 | |
| 21 | 17,700,000 | 17,850,000 | 237 | 1096 | 0.424168382 | |
| 21 | 17,775,000 | 17,925,000 | 238 | 1260 | 0.718832268 | |
| 21 | 17,850,000 | 18,000,000 | 239 | 1106 | 0.891469243 | |
| 21 | 17,925,000 | 18,075,000 | 240 | 1053 | -0.154290463 | |
| 21 | 18,000,000 | 18,150,000 | 241 | 1296 | 0.076543643 | |
| 21 | 18,075,000 | 18,225,000 | 242 | 1327 | 0.488367404 | |
| 21 | 18,150,000 | 18,300,000 | 243 | 927 | 0.593655207 | |
| 21 | 18,225,000 | 18,375,000 | 244 | 863 | 0.225683796 | |
| 21 | 18,300,000 | 18,450,000 | 245 | 890 | 0.065489273 | |
| 21 | 18,375,000 | 18,525,000 | 246 | 779 | 0.7017734 | |
| 21 | 18,450,000 | 18,600,000 | 247 | 827 | 0.341755516 | |
| 21 | 18,525,000 | 18,675,000 | 248 | 1113 | 0.624088307 | |
| 21 | 18,600,000 | 18,750,000 | 249 | 1283 | 1.262481158 | |
| 21 | 18,675,000 | 18,825,000 | 250 | 1427 | 0.87626918 | |
| 21 | 18,750,000 | 18,900,000 | 251 | 1181 | 0.375797428 | |
| 21 | 18,825,000 | 18,975,000 | 252 | 725 | -0.195581615 | |
| 21 | 18,900,000 | 19,050,000 | 253 | 1199 | -1.157840546 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 18,975,000 | 19,125,000 | 254 | 1444 | -1.033862291 | |
| 21 | 19,050,000 | 19,200,000 | 255 | 982 | 0.016919284 | |
| 21 | 19,125,000 | 19,275,000 | 256 | 925 | 0.116054816 | ENSBTAG00000011213 |
| 21 | 19,200,000 | 19,350,000 | 257 | 1114 | -0.030749651 | ENSBTAG00000011213 |
| 21 | 19,275,000 | 19,425,000 | 258 | 1203 | -1.068499009 | ENSBTAG00000011213 |
| 21 | 19,350,000 | 19,500,000 | 259 | 1327 | -0.620991407 | NTRK3 |
| 21 | 19,425,000 | 19,575,000 | 260 | 1029 | 0.383994987 | NTRK3 |
| 21 | 19,500,000 | 19,650,000 | 261 | 844 | -5.407755336 | NTRK3 |
| 21 | 19,575,000 | 19,725,000 | 262 | 1230 | -3.542564202 | |
| 21 | 19,650,000 | 19,800,000 | 263 | 1170 | 0.01643415 | |
| 21 | 19,725,000 | 19,875,000 | 264 | 782 | 0.291749629 | MRPL46,MRPS11 |
| 21 | 19,800,000 | 19,950,000 | 265 | 503 | -0.078944445 | DET1,MRPL46,MRPS11 |
| 21 | 19,875,000 | 20,025,000 | 266 | 627 | -0.069225211 | AEN,DET1,ISG20,MRPS11 |
| 21 | 19,950,000 | 20,100,000 | 267 | 1676 | 0.133394007 | AEN,DET1,ISG20,ENSBTAG00000001308,ENSBTAG0000047729 |
| 21 | 20,025,000 | 20,175,000 | 268 | 2108 | -0.152331382 | ISG20,ENSBTAG00000001308,ENSBTAG00000040580,ENSBTAG00000045929,ENSBTAG00000047729 |
| 21 | 20,100,000 | 20,250,000 | 269 | 2204 | -0.238428592 | ENSBTAG00000001308,ENSBTAG00000002786,ENSBTAG00000040580,ENSBTAG00000045929,ENSBTAG0000047729 |
| 21 | 20,175,000 | 20,325,000 | 270 | 2563 | -1.307981888 | ENSBTAG00000001308,ENSBTAG00000002786 |
| 21 | 20,250,000 | 20,400,000 | 271 | 2172 | -2.645110042 | ENSBTAG00000012326,ENSBTAG00000038494 |
| 21 | 20,325,000 | 20,475,000 | 272 | 2163 | -0.146135874 | ENSBTAG00000004339,ENSBTAG00000012326,ENSBTAG00000038494 |
| 21 | 20,400,000 | 20,550,000 | 273 | 2646 | 0.467467822 | ENSBTAG00000001526,ENSBTAG00000004339 |
| 21 | 20,475,000 | 20,625,000 | 274 | 2203 | 0.099564225 | ENSBTAG00000001526,ENSBTAG00000036082,ENSBTAG00000046377,ENSBTAG00000046412 |
| 21 | 20,550,000 | 20,700,000 | 275 | 1699 | -0.171158428 | ENSBTAG00000017054,ENSBTAG00000036082,ENSBTAG00000046377,ENSBTAG00000046412,ENSBTAG0000048096 |
| 21 | 20,625,000 | 20,775,000 | 276 | 1631 | -0.163157765 | ENSBTAG00000017054,ENSBTAG00000048096 |
| 21 | 20,700,000 | 20,850,000 | 277 | 986 | 0.294141315 | ACAN |
| 21 | 20,775,000 | 20,925,000 | 278 | 484 | 0.617929366 | ACAN,HAPLN3,MFGE8 |
| 21 | 20,850,000 | 21,000,000 | 279 | 758 | 0.473793077 | ABHD2,ACAN,HAPLN3,MFGE8 |
| 21 | 20,925,000 | 21,075,000 | 280 | 1257 | 0.328467926 | ABHD2 |
| 21 | 21,000,000 | 21,150,000 | 281 | 1464 | 0.397010534 | ABHD2,FANCI,RLBP1 |
| 21 | 21,075,000 | 21,225,000 | 282 | 1362 | 0.516038758 | ABHD2,FANCI,POLG,RLBP1 |
| 21 | 21,150,000 | 21,300,000 | 283 | 1110 | 0.339841845 | FANCI,POLG,RLBP1 |
| 21 | 21,225,000 | 21,375,000 | 284 | 1118 | 0.437209572 | RHCG,RLBP1 |
| 21 | 21,300,000 | 21,450,000 | 285 | 1174 | 0.597107485 | RHCG,TICRR |
| 21 | 21,375,000 | 21,525,000 | 286 | 913 | -1.933905796 | KIF7,PEX11A,PLIN,RHCG,TICRR |
| 21 | 21,450,000 | 21,600,000 | 287 | 542 | -4.002885449 | KIF7,PEX11A,PLIN,TICRR,WDR93 |
| 21 | 21,525,000 | 21,675,000 | 288 | 530 | -1.469203593 | ANPEP,MESP2,PEX11A,WDR93 |
| 21 | 21,600,000 | 21,750,000 | 289 | 668 | -0.423475239 | ANPEP,AP3S2,ARPIN,MESP2 |
| 21 | 21,675,000 | 21,825,000 | 290 | 920 | 0.351824105 | AP3S2,ARPIN |
| 21 | 21,750,000 | 21,900,000 | 291 | 1022 | 0.434642989 | ZNF710 |
| 21 | 21,825,000 | 21,975,000 | 292 | 731 | 0.49614288 | IDH2,ZNF710 |
| 21 | 21,900,000 | 22,050,000 | 293 | 489 | -0.583457816 | CIB1,GDPGP1,IDH2,SEMA4B |
| 21 | 21,975,000 | 22,125,000 | 294 | 354 | -0.48134285 | CIB1,GDPGP1,NGRN,PRC1,SEMA4B,VPS33B |
| 21 | 22,050,000 | 22,200,000 | 295 | 310 | 0.666587053 | FES,GDPGP1,HDDC3,MAN2A2,NGRN,PRC1,RCCD1,UNC45A,VPS33B |
| 21 | 22,125,000 | 22,275,000 | 296 | 331 | 0.391127491 | BLM,FES,FURIN,HDDC3,MAN2A2,RCCD1,UNC45A |
| 21 | 22,200,000 | 22,350,000 | 297 | 440 | -3.493599342 | BLM,FES,FURIN |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 22,275,000 | 22,425,000 | 298 | 548 | -4.789362471 | BLM,CRTC3 |
| 21 | 22,350,000 | 22,500,000 | 299 | 460 | -2.997132648 | CRTC3 |
| 21 | 22,425,000 | 22,575,000 | 300 | 867 | -0.663294326 | CRTC3,IQGAP1 |
| 21 | 22,500,000 | 22,650,000 | 301 | 1307 | -0.320376896 | IQGAP1 |
| 21 | 22,575,000 | 22,725,000 | 302 | 1331 | 0.846849069 | IQGAP1,ZNF774,ZSCAN2 |
| 21 | 22,650,000 | 22,800,000 | 303 | 1292 | 1.238298242 | NMB,SEC11A,WDR73,ZNF774,ZSCAN2 |
| 21 | 22,725,000 | 22,875,000 | 304 | 1052 | 1.357977445 | NMB,SEC11A,WDR73,ZNF592 |
| 21 | 22,800,000 | 22,950,000 | 305 | 1065 | 1.311843498 | ALPK3,SLC28A1,ZNF592 |
| 21 | 22,875,000 | 23,025,000 | 306 | 1220 | 1.161949913 | ALPK3,SLC28A1 |
| 21 | 22,950,000 | 23,100,000 | 307 | 1479 | 0.685264379 | SLC28A1 |
| 21 | 23,025,000 | 23,175,000 | 308 | 1232 | -0.018293626 | PDE8A,SLC28A1 |
| 21 | 23,100,000 | 23,250,000 | 309 | 702 | -0.611819259 | PDE8A |
| 21 | 23,175,000 | 23,325,000 | 310 | 733 | -0.632798289 | PDE8A,RPS17,ENSBTAG00000000623 |
| 21 | 23,250,000 | 23,400,000 | 311 | 787 | -0.235517697 | PDE8A,RPS17,ENSBTAG00000000623 |
| 21 | 23,325,000 | 23,475,000 | 312 | 693 | -0.068993426 | ENSBTAG00000000623,ENSBTAG000000008495 |
| 21 | 23,400,000 | 23,550,000 | 313 | 836 | -1.675834681 | FSD2,WHAMM,ENSBTAG000000008495 |
| 21 | 23,475,000 | 23,625,000 | 314 | 1008 | -1.255997641 | FSD2,HOMER2,WHAMM |
| 21 | 23,550,000 | 23,700,000 | 315 | 974 | -0.260661963 | HOMER2,WHAMM |
| 21 | 23,625,000 | 23,775,000 | 316 | 1073 | 0.241979591 | C21H15ORF40,HOMER2,MGC127733 |
| 21 | 23,700,000 | 23,850,000 | 317 | 1208 | 0.841501381 | C21H15ORF40,MGC127733 |
| 21 | 23,775,000 | 23,925,000 | 318 | 1461 | 1.02138268 | ENSBTAG000000047366 |
| 21 | 23,850,000 | 24,000,000 | 319 | 1120 | 0.951563248 | ENSBTAG000000047366 |
| 21 | 23,925,000 | 24,075,000 | 320 | 404 | 0.823812913 | |
| 21 | 24,000,000 | 24,150,000 | 321 | 267 | 1.236360345 | |
| 21 | 24,075,000 | 24,225,000 | 322 | 277 | 1.08756796 | |
| 21 | 24,150,000 | 24,300,000 | 323 | 316 | 1.283808426 | |
| 21 | 24,225,000 | 24,375,000 | 324 | 481 | 1.303623546 | MEX3B |
| 21 | 24,300,000 | 24,450,000 | 325 | 779 | 1.225368372 | EFTUD1,MEX3B |
| 21 | 24,375,000 | 24,525,000 | 326 | 1082 | 1.259255502 | EFTUD1,FAM154B |
| 21 | 24,450,000 | 24,600,000 | 327 | 999 | 1.192196706 | ADAMTSL3,EFTUD1,FAM154B |
| 21 | 24,525,000 | 24,675,000 | 328 | 662 | 0.936964501 | ADAMTSL3,FAM154B |
| 21 | 24,600,000 | 24,750,000 | 329 | 479 | 0.639637353 | ADAMTSL3 |
| 21 | 24,675,000 | 24,825,000 | 330 | 417 | -0.206307729 | ADAMTSL3 |
| 21 | 24,750,000 | 24,900,000 | 331 | 440 | -0.254692566 | ADAMTSL3 |
| 21 | 24,825,000 | 24,975,000 | 332 | 444 | -0.252948969 | ADAMTSL3 |
| 21 | 24,900,000 | 25,050,000 | 333 | 663 | -0.612235203 | SH3GL3 |
| 21 | 24,975,000 | 25,125,000 | 334 | 717 | -0.176876111 | SH3GL3 |
| 21 | 25,050,000 | 25,200,000 | 335 | 436 | -0.293840176 | |
| 21 | 25,125,000 | 25,275,000 | 336 | 299 | -1.066224916 | BNC1 |
| 21 | 25,200,000 | 25,350,000 | 337 | 261 | -1.67940499 | BNC1,HDGFRP3 |
| 21 | 25,275,000 | 25,425,000 | 338 | 437 | -2.203470005 | HDGFRP3,TM6SF1 |
| 21 | 25,350,000 | 25,500,000 | 339 | 438 | -1.46782817 | BTBD1,HDGFRP3,TM6SF1 |
| 21 | 25,425,000 | 25,575,000 | 340 | 234 | 0.299508555 | BTBD1 |
| 21 | 25,500,000 | 25,650,000 | 341 | 288 | 0.178531072 | BTBD1 |
| 21 | 25,575,000 | 25,725,000 | 342 | 517 | 0.408729408 | CTSH,RASGRF1,ENSBTAG00000010988 |
| 21 | 25,650,000 | 25,800,000 | 343 | 507 | 0.753825589 | CTSH,RASGRF1,ENSBTAG00000010988 |
| 21 | 25,725,000 | 25,875,000 | 344 | 435 | 0.716960331 | RASGRF1 |
| 21 | 25,800,000 | 25,950,000 | 345 | 502 | 0.630376315 | RASGRF1 |
| 21 | 25,875,000 | 26,025,000 | 346 | 786 | 0.233300888 | ANKRD34C,TMED3 |
| 21 | 25,950,000 | 26,100,000 | 347 | 825 | 0.103021662 | ANKRD34C,TMED3 |
| 21 | 26,025,000 | 26,175,000 | 348 | 619 | 0.087952678 | KIAA1024 |
| 21 | 26,100,000 | 26,250,000 | 349 | 659 | 0.091907798 | KIAA1024,ENSBTAG00000047935 |
| 21 | 26,175,000 | 26,325,000 | 350 | 726 | -0.87093841 | ENSBTAG00000047935 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 21 | 26,250,000 | 26,400,000 | 351 | 1329 | -1.946824173 | |
| 21 | 26,325,000 | 26,475,000 | 352 | 1305 | -1.427457278 | MTHFS |
| 21 | 26,400,000 | 26,550,000 | 353 | 554 | -0.040464245 | BCL2A1,MTHFS,ZFAND6 |
| 21 | 26,475,000 | 26,625,000 | 354 | 376 | 0.164234874 | BCL2A1,FAH,ZFAND6,ENSBTAG00000048314 |
| 21 | 26,550,000 | 26,700,000 | 355 | 452 | -0.879721387 | FAH,ZFAND6,ENSBTAG00000048314 |
| 21 | 26,625,000 | 26,775,000 | 356 | 610 | -0.726426886 | FAH |
| 21 | 26,700,000 | 26,850,000 | 357 | 907 | 0.229240016 | ENSBTAG00000047587 |
| 21 | 26,775,000 | 26,925,000 | 358 | 1102 | -0.774783342 | ARNT2,ENSBTAG00000047587 |
| 21 | 26,850,000 | 27,000,000 | 359 | 967 | -2.773952497 | ARNT2 |
| 21 | 26,925,000 | 27,075,000 | 360 | 822 | -0.391822926 | ABHD17C,ARNT2 |
| 21 | 27,000,000 | 27,150,000 | 361 | 655 | 0.827781287 | ABHD17C |
| 21 | 27,075,000 | 27,225,000 | 362 | 440 | 0.33679527 | ABHD17C |
| 21 | 27,150,000 | 27,300,000 | 363 | 406 | -0.100768957 | CEMIP |
| 21 | 27,225,000 | 27,375,000 | 364 | 445 | 0.189373167 | CEMIP,MESDC1,MESDC2 |
| 21 | 27,300,000 | 27,450,000 | 365 | 589 | 0.268992951 | C21H15ORF26,MESDC1,MESDC2 |
| 21 | 27,375,000 | 27,525,000 | 366 | 866 | -0.447682763 | C21H15ORF26 |
| 21 | 27,450,000 | 27,600,000 | 367 | 750 | -0.60975536 | C21H15ORF26,IL16 |
| 21 | 27,525,000 | 27,675,000 | 368 | 598 | -1.942508295 | IL16,STARD5,TMC3 |
| 21 | 27,600,000 | 27,750,000 | 369 | 919 | -1.550498058 | IL16,STARD5,TMC3 |
| 21 | 27,675,000 | 27,825,000 | 370 | 1054 | -0.109176874 | TMC3 |
| 21 | 27,750,000 | 27,900,000 | 371 | 921 | 0.228464973 | MCEE |
| 21 | 27,825,000 | 27,975,000 | 372 | 744 | 0.067053065 | FAN1,MCEE,MPHOSPH10,MTMR10 |
| 21 | 27,900,000 | 28,050,000 | 373 | 652 | 0.326989816 | FAN1,MCEE,MPHOSPH10,MTMR10,TRPM1 |
| 21 | 27,975,000 | 28,125,000 | 374 | 934 | 0.233171959 | MTMR10,TRPM1 |
| 21 | 28,050,000 | 28,200,000 | 375 | 986 | 0.201840122 | TRPM1 |
| 21 | 28,125,000 | 28,275,000 | 376 | 691 | 0.431200979 | |
| 21 | 28,200,000 | 28,350,000 | 377 | 727 | 0.87813855 | |
| 21 | 28,275,000 | 28,425,000 | 378 | 1304 | 1.333659668 | |
| 21 | 28,350,000 | 28,500,000 | 379 | 1602 | 1.503959078 | |
| 21 | 28,425,000 | 28,575,000 | 380 | 1235 | 1.359612303 | APBA2 |
| 21 | 28,500,000 | 28,650,000 | 381 | 955 | 0.965324594 | APBA2,FAM189A1 |
| 21 | 28,575,000 | 28,725,000 | 382 | 713 | 0.771512141 | APBA2,FAM189A1,NDNL2 |
| 21 | 28,650,000 | 28,800,000 | 383 | 412 | 0.000259195 | FAM189A1,NDNL2 |
| 21 | 28,725,000 | 28,875,000 | 384 | 293 | -1.017224653 | |
| 21 | 28,800,000 | 28,950,000 | 385 | 395 | 0.27468764 | ZO1 |
| 21 | 28,875,000 | 29,025,000 | 386 | 353 | 0.699266099 | ZO1 |
| 21 | 28,950,000 | 29,100,000 | 387 | 223 | -0.316475786 | ZO1 |
| 21 | 29,025,000 | 29,175,000 | 388 | 218 | -0.678686697 | |
| 21 | 29,100,000 | 29,250,000 | 389 | 231 | -0.196217555 | |
| 21 | 29,175,000 | 29,325,000 | 390 | 431 | 0.784042019 | TARSL2 |
| 21 | 29,250,000 | 29,400,000 | 391 | 451 | 1.021952568 | TARSL2,TM2D3 |
| 21 | 29,325,000 | 29,475,000 | 392 | 260 | 1.109623494 | TARSL2,TM2D3 |
| 21 | 29,400,000 | 29,550,000 | 393 | 266 | 1.209487672 | |
| 21 | 29,475,000 | 29,625,000 | 394 | 529 | 0.881781647 | PCSK6 |
| 21 | 29,550,000 | 29,700,000 | 395 | 889 | -2.136539894 | PCSK6,SNRPA1 |
| 21 | 29,625,000 | 29,775,000 | 396 | 1038 | -3.483443705 | PCSK6,SNRPA1,ENSBTAG0000003957 |
| 21 | 29,700,000 | 29,850,000 | 397 | 930 | -3.598829163 | ENSBTAG0000003957 |
| 21 | 29,775,000 | 29,925,000 | 398 | 816 | -1.807704288 | |
| 21 | 29,850,000 | 30,000,000 | 399 | 975 | -0.46604094 | ENSBTAG00000047130 |
| 21 | 29,925,000 | 30,075,000 | 400 | 942 | -1.197072335 | ENSBTAG00000047130 |
| 21 | 30,000,000 | 30,150,000 | 401 | 815 | -0.026118332 | CHRNA7 |
| 21 | 30,075,000 | 30,225,000 | 402 | 619 | -0.177663974 | CHRNA7 |
| 21 | 30,150,000 | 30,300,000 | 403 | 400 | -1.591629018 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 30,225,000 | 30,375,000 | 404 | 390 | -0.964650257 | |
| 21 | 30,300,000 | 30,450,000 | 405 | 775 | -0.443932603 | |
| 21 | 30,375,000 | 30,525,000 | 406 | 1030 | -0.54745945 | |
| 21 | 30,450,000 | 30,600,000 | 407 | 550 | -0.767290018 | |
| 21 | 30,525,000 | 30,675,000 | 408 | 370 | -0.61572896 | OTUD7A |
| 21 | 30,600,000 | 30,750,000 | 409 | 632 | -1.115483916 | OTUD7A |
| 21 | 30,675,000 | 30,825,000 | 410 | 756 | -1.100053871 | OTUD7A |
| 21 | 30,750,000 | 30,900,000 | 411 | 676 | -0.522393694 | ADAMTS7,OTUD7A |
| 21 | 30,825,000 | 30,975,000 | 412 | 660 | -0.658249062 | ADAMTS7,TBC1D2B |
| 21 | 30,900,000 | 31,050,000 | 413 | 594 | -1.931967743 | CIB2,SH2D7,TBC1D2B |
| 21 | 30,975,000 | 31,125,000 | 414 | 445 | -2.302648127 | ACSBG1,CIB2,IDH3A,SH2D7 |
| 21 | 31,050,000 | 31,200,000 | 415 | 366 | 0.40303707 | ACSBG1,DNAJA4,IDH3A,WDR61 |
| 21 | 31,125,000 | 31,275,000 | 416 | 309 | 0.625567578 | ACSBG1,CRABP1,DNAJA4,WDR61 |
| 21 | 31,200,000 | 31,350,000 | 417 | 413 | -0.510160416 | CRABP1,WDR61 |
| 21 | 31,275,000 | 31,425,000 | 418 | 451 | -0.56980036 | HYKK,IREB2 |
| 21 | 31,350,000 | 31,500,000 | 419 | 483 | 0.319288583 | CHRNA5,HYKK,IREB2,PSMA4 |
| 21 | 31,425,000 | 31,575,000 | 420 | 580 | -0.922609895 | CHRNA3,CHRNA5,CHRNB4,HYKK,PSMA4 |
| 21 | 31,500,000 | 31,650,000 | 421 | 575 | -2.504237587 | CHRNA3,CHRNB4,UBE2Q2 |
| 21 | 31,575,000 | 31,725,000 | 422 | 399 | -2.337942916 | FBXO22,UBE2Q2 |
| 21 | 31,650,000 | 31,800,000 | 423 | 220 | -0.692571332 | FBXO22,UBE2Q2 |
| 21 | 31,725,000 | 31,875,000 | 424 | 195 | -1.187930895 | C15orf27,FBXO22 |
| 21 | 31,800,000 | 31,950,000 | 425 | 262 | -0.154154552 | C15orf27 |
| 21 | 31,875,000 | 32,025,000 | 426 | 368 | 0.728174792 | C15orf27,ETFA |
| 21 | 31,950,000 | 32,100,000 | 427 | 387 | 1.285364674 | C15orf27,ETFA |
| 21 | 32,025,000 | 32,175,000 | 428 | 419 | 1.246696431 | ETFA,ISL2,SCAPER |
| 21 | 32,100,000 | 32,250,000 | 429 | 566 | 1.051486308 | ISL2,SCAPER |
| 21 | 32,175,000 | 32,325,000 | 430 | 787 | 1.264499793 | SCAPER |
| 21 | 32,250,000 | 32,400,000 | 431 | 815 | 1.277165678 | SCAPER |
| 21 | 32,325,000 | 32,475,000 | 432 | 772 | 1.13042472 | SCAPER |
| 21 | 32,400,000 | 32,550,000 | 433 | 925 | 0.236691694 | SCAPER |
| 21 | 32,475,000 | 32,625,000 | 434 | 849 | 0.140428161 | RCN2,SCAPER |
| 21 | 32,550,000 | 32,700,000 | 435 | 805 | 0.155975117 | PSTPIP1,RCN2 |
| 21 | 32,625,000 | 32,775,000 | 436 | 957 | 0.302517615 | PEAK1,PSTPIP1,TSPAN3 |
| 21 | 32,700,000 | 32,850,000 | 437 | 931 | 0.265992406 | PEAK1,TSPAN3 |
| 21 | 32,775,000 | 32,925,000 | 438 | 1030 | 0.33006097 | PEAK1 |
| 21 | 32,850,000 | 33,000,000 | 439 | 1043 | 0.933945887 | |
| 21 | 32,925,000 | 33,075,000 | 440 | 886 | 1.104858721 | |
| 21 | 33,000,000 | 33,150,000 | 441 | 714 | -0.540963814 | HMG20A |
| 21 | 33,075,000 | 33,225,000 | 442 | 826 | -1.319622015 | HMG20A |
| 21 | 33,150,000 | 33,300,000 | 443 | 1119 | -0.584201347 | HMG20A,LINGO1 |
| 21 | 33,225,000 | 33,375,000 | 444 | 991 | -0.011635604 | LINGO1 |
| 21 | 33,300,000 | 33,450,000 | 445 | 783 | 1.06971812 | |
| 21 | 33,375,000 | 33,525,000 | 446 | 810 | 0.533615452 | |
| 21 | 33,450,000 | 33,600,000 | 447 | 672 | -0.40350086 | CSPG4,ODF3L1 |
| 21 | 33,525,000 | 33,675,000 | 448 | 554 | -0.51319954 | CSPG4,IMP3,ODF3L1,SNUPN,SNX33 |
| 21 | 33,600,000 | 33,750,000 | 449 | 492 | -0.026718265 | CSPG4,IMP3,PTPN9,SNUPN,SNX33 |
| 21 | 33,675,000 | 33,825,000 | 450 | 323 | 0.275163658 | PTPN9,SIN3A,SNUPN |
| 21 | 33,750,000 | 33,900,000 | 451 | 404 | 0.195646698 | COMMD4,MAN2C1,NEIL1,PTPN9,SIN3A |
| 21 | 33,825,000 | 33,975,000 | 452 | 547 | -0.522910271 | C15orf39,COMMD4,MAN2C1,NEIL1,SIN3A,ENSBTAGO0000032631 |
| 21 | 33,900,000 | 34,050,000 | 453 | 675 | -1.136085043 | C15orf39,ENSBTAGO0000032631 |
| 21 | 33,975,000 | 34,125,000 | 454 | 555 | -1.058184858 | MDS018,SCAMP5 |
| 21 | 34,050,000 | 34,200,000 | 455 | 421 | -0.159649633 | COX5A,FAM219B,MDS018,MPI,RPP25,SCAMP5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 34,125,000 | 34,275,000 | 456 | 424 | 0.694228591 | COX5A,CPLX3,CSK,FAM219B,LMAN1L,MPI,RPP25,SCAMP2,ULK3 |
| 21 | 34,200,000 | 34,350,000 | 457 | 643 | 0.648038215 | CPLX3,CSK,CYP1A1,CYP1A2,LMAN1L,SCAMP2,ULK3 |
| 21 | 34,275,000 | 34,425,000 | 458 | 857 | -0.813331869 | CSK,CYP1A1,CYP1A2,FLJ21128 |
| 21 | 34,350,000 | 34,500,000 | 459 | 656 | -2.103257443 | ARID3B,CLK3,FLJ21128 |
| 21 | 34,425,000 | 34,575,000 | 460 | 549 | -1.423155896 | ARID3B,CLK3,FLJ21128 |
| 21 | 34,500,000 | 34,650,000 | 461 | 465 | -1.762290416 | ARID3B,BMSC-UBP,SEMA7A |
| 21 | 34,575,000 | 34,725,000 | 462 | 566 | -3.753561505 | BMSC-UBP,CYP11A1,SEMA7A |
| 21 | 34,650,000 | 34,800,000 | 463 | 749 | -1.890775888 | CCDC33,CYP11A1,SEMA7A |
| 21 | 34,725,000 | 34,875,000 | 464 | 815 | 0.882760782 | CCDC33,CYP11A1 |
| 21 | 34,800,000 | 34,950,000 | 465 | 712 | 0.713224325 | CCDC33,ISLR,STRA6 |
| 21 | 34,875,000 | 35,025,000 | 466 | 749 | 0.723418949 | ISLR,ISLR2,PML,STRA6 |
| 21 | 34,950,000 | 35,100,000 | 467 | 791 | -0.056981919 | ISLR2,LOXL1,PML,STOML1 |
| 21 | 35,025,000 | 35,175,000 | 468 | 873 | -0.645295347 | GZMB,LOXL1,PML,STOML1,ENSBTAG00000013234,ENSBTAG00000027033,ENSBTAG00000037578,ENSBTAG00000038159 |
| 21 | 35,100,000 | 35,250,000 | 469 | 872 | -1.077339028 | GZMB,ENSBTAG00000010828,ENSBTAG00000013055,ENSBTAG00000013234,ENSBTAG00000027033,ENSBTAG00000037578,ENSBTAG00000038080,ENSBTAG00000038159,ENSBTAG00000040134 |
| 21 | 35,175,000 | 35,325,000 | 470 | 644 | -1.375088482 | GZMB,ENSBTAG00000010828,ENSBTAG00000013055,ENSBTAG00000038080,ENSBTAG00000040134 |
| 21 | 35,250,000 | 35,400,000 | 471 | 1121 | -1.676939439 | GZMB |
| 21 | 35,325,000 | 35,475,000 | 472 | 1521 | -2.682477938 | STXBP6 |
| 21 | 35,400,000 | 35,550,000 | 473 | 1473 | -0.956692409 | STXBP6 |
| 21 | 35,475,000 | 35,625,000 | 474 | 1071 | 0.222289086 | STXBP6 |
| 21 | 35,550,000 | 35,700,000 | 475 | 1071 | 0.269636318 | STXBP6 |
| 21 | 35,625,000 | 35,775,000 | 476 | 1378 | -0.363018145 | STXBP6 |
| 21 | 35,700,000 | 35,850,000 | 477 | 1456 | -1.149617662 | |
| 21 | 35,775,000 | 35,925,000 | 478 | 1668 | -0.578074033 | |
| 21 | 35,850,000 | 36,000,000 | 479 | 1626 | -0.593808786 | |
| 21 | 35,925,000 | 36,075,000 | 480 | 1152 | -0.341255964 | |
| 21 | 36,000,000 | 36,150,000 | 481 | 778 | 0.53103375 | |
| 21 | 36,075,000 | 36,225,000 | 482 | 1173 | 0.149700846 | |
| 21 | 36,150,000 | 36,300,000 | 483 | 1115 | 0.075404171 | |
| 21 | 36,225,000 | 36,375,000 | 484 | 703 | 0.1099891 | |
| 21 | 36,300,000 | 36,450,000 | 485 | 710 | -0.253505882 | |
| 21 | 36,375,000 | 36,525,000 | 486 | 719 | -0.968702184 | |
| 21 | 36,450,000 | 36,600,000 | 487 | 986 | -0.32031707 | |
| 21 | 36,525,000 | 36,675,000 | 488 | 948 | 0.073001333 | |
| 21 | 36,600,000 | 36,750,000 | 489 | 908 | -0.237142511 | |
| 21 | 36,675,000 | 36,825,000 | 490 | 1057 | 0.430024118 | |
| 21 | 36,750,000 | 36,900,000 | 491 | 1051 | -0.494601859 | |
| 21 | 36,825,000 | 36,975,000 | 492 | 1367 | 0.12750607 | |
| 21 | 36,900,000 | 37,050,000 | 493 | 1270 | 1.087058508 | |
| 21 | 36,975,000 | 37,125,000 | 494 | 1030 | 1.244068617 | NOVA1 |
| 21 | 37,050,000 | 37,200,000 | 495 | 937 | 1.258667849 | NOVA1 |
| 21 | 37,125,000 | 37,275,000 | 496 | 659 | 1.004555759 | NOVA1 |
| 21 | 37,200,000 | 37,350,000 | 497 | 553 | 0.478878342 | NOVA1 |
| 21 | 37,275,000 | 37,425,000 | 498 | 632 | 0.727267131 | |
| 21 | 37,350,000 | 37,500,000 | 499 | 949 | 1.049211589 | |
| 21 | 37,425,000 | 37,575,000 | 500 | 1276 | 0.822145657 | |
| 21 | 37,500,000 | 37,650,000 | 501 | 1179 | 0.858947603 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 21 | 37,575,000 | 37,725,000 | 502 | 935 | 1.080523799 | |
| 21 | 37,650,000 | 37,800,000 | 503 | 849 | 1.022635586 | |
| 21 | 37,725,000 | 37,875,000 | 504 | 983 | 1.012500821 | |
| 21 | 37,800,000 | 37,950,000 | 505 | 1071 | 0.596445555 | |
| 21 | 37,875,000 | 38,025,000 | 506 | 1174 | 0.74343196 | |
| 21 | 37,950,000 | 38,100,000 | 507 | 1113 | 0.552262485 | |
| 21 | 38,025,000 | 38,175,000 | 508 | 1087 | -0.123077845 | |
| 21 | 38,100,000 | 38,250,000 | 509 | 1458 | 0.139165318 | |
| 21 | 38,175,000 | 38,325,000 | 510 | 1466 | 0.198357358 | ENSBTAG00000031558 |
| 21 | 38,250,000 | 38,400,000 | 511 | 1095 | -0.37301865 | ENSBTAG00000031558 |
| 21 | 38,325,000 | 38,475,000 | 512 | 838 | -0.264441585 | |
| 21 | 38,400,000 | 38,550,000 | 513 | 1017 | 0.313499208 | |
| 21 | 38,475,000 | 38,625,000 | 514 | 994 | 0.23163062 | |
| 21 | 38,550,000 | 38,700,000 | 515 | 849 | 0.891826652 | |
| 21 | 38,625,000 | 38,775,000 | 516 | 1067 | 1.274892355 | |
| 21 | 38,700,000 | 38,850,000 | 517 | 1257 | 1.217441967 | |
| 21 | 38,775,000 | 38,925,000 | 518 | 1409 | 0.379119654 | |
| 21 | 38,850,000 | 39,000,000 | 519 | 1280 | 0.418863739 | |
| 21 | 38,925,000 | 39,075,000 | 520 | 987 | 0.999162376 | |
| 21 | 39,000,000 | 39,150,000 | 521 | 872 | 0.981397087 | |
| 21 | 39,075,000 | 39,225,000 | 522 | 1025 | 1.056370874 | |
| 21 | 39,150,000 | 39,300,000 | 523 | 1026 | 1.041374361 | |
| 21 | 39,225,000 | 39,375,000 | 524 | 1054 | 1.188634509 | |
| 21 | 39,300,000 | 39,450,000 | 525 | 1146 | 0.987433329 | |
| 21 | 39,375,000 | 39,525,000 | 526 | 906 | 0.360899793 | |
| 21 | 39,450,000 | 39,600,000 | 527 | 665 | -0.304081958 | |
| 21 | 39,525,000 | 39,675,000 | 528 | 639 | -2.394437977 | |
| 21 | 39,600,000 | 39,750,000 | 529 | 667 | -3.867799978 | |
| 21 | 39,675,000 | 39,825,000 | 530 | 688 | -2.24938222 | |
| 21 | 39,750,000 | 39,900,000 | 531 | 681 | 0.629025622 | |
| 21 | 39,825,000 | 39,975,000 | 532 | 687 | 0.651157025 | |
| 21 | 39,900,000 | 40,050,000 | 533 | 772 | 0.654260572 | |
| 21 | 39,975,000 | 40,125,000 | 534 | 826 | 0.554818108 | |
| 21 | 40,050,000 | 40,200,000 | 535 | 941 | 0.676079593 | |
| 21 | 40,125,000 | 40,275,000 | 536 | 716 | 0.33444982 | |
| 21 | 40,200,000 | 40,350,000 | 537 | 470 | -0.098029911 | |
| 21 | 40,275,000 | 40,425,000 | 538 | 698 | -0.391102571 | |
| 21 | 40,350,000 | 40,500,000 | 539 | 758 | -1.437167817 | |
| 21 | 40,425,000 | 40,575,000 | 540 | 580 | -2.275510914 | PRKD1 |
| 21 | 40,500,000 | 40,650,000 | 541 | 482 | -1.802050525 | PRKD1 |
| 21 | 40,575,000 | 40,725,000 | 542 | 738 | -0.185555903 | PRKD1 |
| 21 | 40,650,000 | 40,800,000 | 543 | 817 | 0.51604526 | PRKD1 |
| 21 | 40,725,000 | 40,875,000 | 544 | 565 | 0.006848548 | |
| 21 | 40,800,000 | 40,950,000 | 545 | 520 | 0.170685436 | |
| 21 | 40,875,000 | 41,025,000 | 546 | 395 | 0.3002423 | |
| 21 | 40,950,000 | 41,100,000 | 547 | 302 | -0.66561279 | |
| 21 | 41,025,000 | 41,175,000 | 548 | 329 | -0.772679468 | |
| 21 | 41,100,000 | 41,250,000 | 549 | 386 | -0.134631901 | |
| 21 | 41,175,000 | 41,325,000 | 550 | 525 | 0.251811052 | |
| 21 | 41,250,000 | 41,400,000 | 551 | 482 | 0.222153741 | |
| 21 | 41,325,000 | 41,475,000 | 552 | 284 | 0.064036897 | |
| 21 | 41,400,000 | 41,550,000 | 553 | 352 | 0.603702208 | |
| 21 | 41,475,000 | 41,625,000 | 554 | 446 | 0.173841688 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------------|
| 21 | 41,550,000 | 41,700,000 | 555 | 421 | -0.533620736 | G2E3,SCFD1 |
| 21 | 41,625,000 | 41,775,000 | 556 | 509 | 0.276654106 | G2E3,SCFD1 |
| 21 | 41,700,000 | 41,850,000 | 557 | 1015 | -0.158389638 | SCFD1 |
| 21 | 41,775,000 | 41,925,000 | 558 | 1315 | -0.856680826 | SCFD1 |
| 21 | 41,850,000 | 42,000,000 | 559 | 863 | -0.862959871 | COCH,STRN3 |
| 21 | 41,925,000 | 42,075,000 | 560 | 442 | 0.380463479 | AP4S1,COCH,STRN3 |
| 21 | 42,000,000 | 42,150,000 | 561 | 350 | -0.02007029 | AP4S1,HECTD1,STRN3 |
| 21 | 42,075,000 | 42,225,000 | 562 | 325 | -0.596739347 | AP4S1,HECTD1 |
| 21 | 42,150,000 | 42,300,000 | 563 | 335 | -0.697286109 | HEATR5A,HECTD1 |
| 21 | 42,225,000 | 42,375,000 | 564 | 801 | -0.129293814 | HEATR5A |
| 21 | 42,300,000 | 42,450,000 | 565 | 1139 | 0.275694438 | GPR33,HEATR5A,ENSBTAG00000038020 |
| 21 | 42,375,000 | 42,525,000 | 566 | 1450 | -0.380230696 | GPR33,NUBPL,ENSBTAG00000038020 |
| 21 | 42,450,000 | 42,600,000 | 567 | 1717 | -0.808760476 | NUBPL |
| 21 | 42,525,000 | 42,675,000 | 568 | 1293 | 0.026952769 | NUBPL |
| 21 | 42,600,000 | 42,750,000 | 569 | 706 | 0.598363917 | NUBPL |
| 21 | 42,675,000 | 42,825,000 | 570 | 479 | 0.85754222 | NUBPL |
| 21 | 42,750,000 | 42,900,000 | 571 | 532 | 0.894867543 | |
| 21 | 42,825,000 | 42,975,000 | 572 | 394 | 0.515691192 | ARHGAP5 |
| 21 | 42,900,000 | 43,050,000 | 573 | 428 | -1.102369863 | ARHGAP5 |
| 21 | 42,975,000 | 43,125,000 | 574 | 748 | -0.880965952 | ARHGAP5 |
| 21 | 43,050,000 | 43,200,000 | 575 | 865 | -0.284501336 | AKAP6 |
| 21 | 43,125,000 | 43,275,000 | 576 | 800 | 0.406827613 | AKAP6 |
| 21 | 43,200,000 | 43,350,000 | 577 | 771 | 0.493902544 | AKAP6 |
| 21 | 43,275,000 | 43,425,000 | 578 | 854 | 0.770098276 | AKAP6 |
| 21 | 43,350,000 | 43,500,000 | 579 | 638 | 0.969479289 | AKAP6 |
| 21 | 43,425,000 | 43,575,000 | 580 | 398 | 0.461098629 | AKAP6 |
| 21 | 43,500,000 | 43,650,000 | 581 | 1010 | 1.169203319 | AKAP6 |
| 21 | 43,575,000 | 43,725,000 | 582 | 1101 | 1.043643607 | AKAP6 |
| 21 | 43,650,000 | 43,800,000 | 583 | 618 | 0.836051683 | |
| 21 | 43,725,000 | 43,875,000 | 584 | 706 | 0.583203613 | |
| 21 | 43,800,000 | 43,950,000 | 585 | 901 | 0.575708725 | |
| 21 | 43,875,000 | 44,025,000 | 586 | 890 | 0.555749949 | |
| 21 | 43,950,000 | 44,100,000 | 587 | 671 | 0.007344472 | |
| 21 | 44,025,000 | 44,175,000 | 588 | 761 | -0.280750396 | |
| 21 | 44,100,000 | 44,250,000 | 589 | 777 | -0.093462824 | |
| 21 | 44,175,000 | 44,325,000 | 590 | 533 | -0.339881582 | |
| 21 | 44,250,000 | 44,400,000 | 591 | 534 | -0.099521693 | |
| 21 | 44,325,000 | 44,475,000 | 592 | 749 | 0.14389133 | |
| 21 | 44,400,000 | 44,550,000 | 593 | 707 | -0.242037724 | |
| 21 | 44,475,000 | 44,625,000 | 594 | 434 | -0.445827055 | |
| 21 | 44,550,000 | 44,700,000 | 595 | 498 | -1.652760386 | NPAS3 |
| 21 | 44,625,000 | 44,775,000 | 596 | 671 | -0.784788868 | NPAS3 |
| 21 | 44,700,000 | 44,850,000 | 597 | 794 | 0.646681059 | EGLN3,NPAS3 |
| 21 | 44,775,000 | 44,925,000 | 598 | 1093 | 0.34442377 | EGLN3 |
| 21 | 44,850,000 | 45,000,000 | 599 | 1013 | -0.204394794 | |
| 21 | 44,925,000 | 45,075,000 | 600 | 761 | -1.689737961 | |
| 21 | 45,000,000 | 45,150,000 | 601 | 878 | -0.969327598 | |
| 21 | 45,075,000 | 45,225,000 | 602 | 1251 | -0.61084412 | |
| 21 | 45,150,000 | 45,300,000 | 603 | 1308 | -0.889791215 | ENSBTAG00000047905 |
| 21 | 45,225,000 | 45,375,000 | 604 | 790 | -0.870578202 | EAPP,SPTSSA,ENSBTAG00000047905 |
| 21 | 45,300,000 | 45,450,000 | 605 | 658 | -1.774544226 | EAPP,SNX6,SPTSSA,ENSBTAG00000047905 |
| 21 | 45,375,000 | 45,525,000 | 606 | 615 | -1.009934949 | CFL2,SNX6 |
| 21 | 45,450,000 | 45,600,000 | 607 | 530 | 1.221937744 | BAZ1A,CFL2,SNX6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 45,525,000 | 45,675,000 | 608 | 594 | 1.3794907 | BAZ1A |
| 21 | 45,600,000 | 45,750,000 | 609 | 866 | 0.982195835 | MGC142695,SRP54 |
| 21 | 45,675,000 | 45,825,000 | 610 | 978 | 0.575500157 | FAM177A1,KIAA0391,MGC142695,PPP2R3C,SRP54 |
| 21 | 45,750,000 | 45,900,000 | 611 | 649 | 0.046841306 | FAM177A1,KIAA0391,PPP2R3C,SRP54 |
| 21 | 45,825,000 | 45,975,000 | 612 | 690 | -0.421768317 | KIAA0391,PSMA6 |
| 21 | 45,900,000 | 46,050,000 | 613 | 1075 | -0.227438298 | KIAA0391,PSMA6 |
| 21 | 45,975,000 | 46,125,000 | 614 | 1052 | 0.266260825 | BIKBA,PSMA6 |
| 21 | 46,050,000 | 46,200,000 | 615 | 851 | 0.438578588 | BIKBA |
| 21 | 46,125,000 | 46,275,000 | 616 | 595 | 0.146146753 | GARNL1 |
| 21 | 46,200,000 | 46,350,000 | 617 | 428 | 0.469854222 | GARNL1 |
| 21 | 46,275,000 | 46,425,000 | 618 | 607 | 0.320817045 | GARNL1 |
| 21 | 46,350,000 | 46,500,000 | 619 | 651 | 0.380483068 | BRMS1L,GARNL1 |
| 21 | 46,425,000 | 46,575,000 | 620 | 689 | 0.205169755 | BRMS1L |
| 21 | 46,500,000 | 46,650,000 | 621 | 764 | 0.562789001 | |
| 21 | 46,575,000 | 46,725,000 | 622 | 850 | 0.694162415 | |
| 21 | 46,650,000 | 46,800,000 | 623 | 962 | 0.13872869 | |
| 21 | 46,725,000 | 46,875,000 | 624 | 909 | -1.017187328 | |
| 21 | 46,800,000 | 46,950,000 | 625 | 829 | -1.27327518 | MBIP |
| 21 | 46,875,000 | 47,025,000 | 626 | 839 | -0.229681509 | MBIP |
| 21 | 46,950,000 | 47,100,000 | 627 | 728 | 0.256769467 | |
| 21 | 47,025,000 | 47,175,000 | 628 | 535 | 0.518133853 | NKX2-1 |
| 21 | 47,100,000 | 47,250,000 | 629 | 427 | 0.082613477 | NKX2-1,NKX2-8 |
| 21 | 47,175,000 | 47,325,000 | 630 | 316 | -0.215882086 | NKX2-8,PAX9,SLC25A21 |
| 21 | 47,250,000 | 47,400,000 | 631 | 391 | 0.556840447 | PAX9,SLC25A21 |
| 21 | 47,325,000 | 47,475,000 | 632 | 590 | 0.557867658 | SLC25A21 |
| 21 | 47,400,000 | 47,550,000 | 633 | 446 | 0.300150657 | SLC25A21 |
| 21 | 47,475,000 | 47,625,000 | 634 | 322 | -0.145495439 | SLC25A21 |
| 21 | 47,550,000 | 47,700,000 | 635 | 563 | -0.141775783 | SLC25A21 |
| 21 | 47,625,000 | 47,775,000 | 636 | 781 | 0.09602514 | SLC25A21 |
| 21 | 47,700,000 | 47,850,000 | 637 | 979 | 0.25766886 | SLC25A21 |
| 21 | 47,775,000 | 47,925,000 | 638 | 1294 | -0.227295819 | MIPOL1,SLC25A21 |
| 21 | 47,850,000 | 48,000,000 | 639 | 1041 | -0.62682936 | MIPOL1 |
| 21 | 47,925,000 | 48,075,000 | 640 | 880 | -2.238210701 | MIPOL1 |
| 21 | 48,000,000 | 48,150,000 | 641 | 900 | -3.129951626 | MIPOL1 |
| 21 | 48,075,000 | 48,225,000 | 642 | 652 | -1.425353575 | FOXA1,MIPOL1 |
| 21 | 48,150,000 | 48,300,000 | 643 | 534 | -0.254513318 | FOXA1,MIPOL1 |
| 21 | 48,225,000 | 48,375,000 | 644 | 635 | -0.966285074 | |
| 21 | 48,300,000 | 48,450,000 | 645 | 804 | -0.759168889 | TTC6 |
| 21 | 48,375,000 | 48,525,000 | 646 | 784 | 0.187319845 | TTC6 |
| 21 | 48,450,000 | 48,600,000 | 647 | 1040 | 0.75702208 | |
| 21 | 48,525,000 | 48,675,000 | 648 | 1018 | 0.461075615 | |
| 21 | 48,600,000 | 48,750,000 | 649 | 929 | -1.677699452 | |
| 21 | 48,675,000 | 48,825,000 | 650 | 914 | -2.624827792 | SSTR1 |
| 21 | 48,750,000 | 48,900,000 | 651 | 730 | -1.683984006 | CLEC14A,SSTR1 |
| 21 | 48,825,000 | 48,975,000 | 652 | 696 | -1.2030578 | CLEC14A |
| 21 | 48,900,000 | 49,050,000 | 653 | 947 | -0.620890245 | |
| 21 | 48,975,000 | 49,125,000 | 654 | 1198 | -0.421166163 | |
| 21 | 49,050,000 | 49,200,000 | 655 | 1344 | -0.083149524 | |
| 21 | 49,125,000 | 49,275,000 | 656 | 1295 | 0.336013168 | |
| 21 | 49,200,000 | 49,350,000 | 657 | 1205 | 0.660957272 | |
| 21 | 49,275,000 | 49,425,000 | 658 | 1256 | 0.415587273 | |
| 21 | 49,350,000 | 49,500,000 | 659 | 1012 | -0.311401009 | SEC23A |
| 21 | 49,425,000 | 49,575,000 | 660 | 623 | -0.844329455 | GEMIN2,SEC23A,ENSBTAG00000048042 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 49,500,000 | 49,650,000 | 661 | 746 | -0.803046377 | GEMIN2,PNN,SEC23A,TRAPPC6B,ENSBTAG00000045986,ENSBTAG00000048042 |
| 21 | 49,575,000 | 49,725,000 | 662 | 796 | -0.782083471 | GEMIN2,PNN,TRAPPC6B,ENSBTAG0000006819,ENSBTAG00000045986 |
| 21 | 49,650,000 | 49,800,000 | 663 | 657 | 0.266647018 | FBXO33,ENSBTAG0000006819 |
| 21 | 49,725,000 | 49,875,000 | 664 | 553 | 0.58332612 | FBXO33,ENSBTAG0000006819 |
| 21 | 49,800,000 | 49,950,000 | 665 | 666 | -0.378272086 | |
| 21 | 49,875,000 | 50,025,000 | 666 | 1139 | -0.569748845 | |
| 21 | 49,950,000 | 50,100,000 | 667 | 1203 | -1.643251867 | |
| 21 | 50,025,000 | 50,175,000 | 668 | 1002 | -2.830540624 | |
| 21 | 50,100,000 | 50,250,000 | 669 | 847 | -1.617775426 | |
| 21 | 50,175,000 | 50,325,000 | 670 | 757 | -0.703593093 | ODC1 |
| 21 | 50,250,000 | 50,400,000 | 671 | 1003 | -0.759137856 | ODC1,ENSBTAG0000009980 |
| 21 | 50,325,000 | 50,475,000 | 672 | 915 | -0.545754147 | ENSBTAG0000009980 |
| 21 | 50,400,000 | 50,550,000 | 673 | 816 | -0.501067509 | |
| 21 | 50,475,000 | 50,625,000 | 674 | 1207 | 0.026198763 | |
| 21 | 50,550,000 | 50,700,000 | 675 | 1016 | 0.368511127 | |
| 21 | 50,625,000 | 50,775,000 | 676 | 608 | 0.226012944 | |
| 21 | 50,700,000 | 50,850,000 | 677 | 463 | 0.449875057 | |
| 21 | 50,775,000 | 50,925,000 | 678 | 501 | 0.082801674 | |
| 21 | 50,850,000 | 51,000,000 | 679 | 610 | -1.420840408 | |
| 21 | 50,925,000 | 51,075,000 | 680 | 792 | -2.002188838 | |
| 21 | 51,000,000 | 51,150,000 | 681 | 1108 | -2.728548085 | |
| 21 | 51,075,000 | 51,225,000 | 682 | 1419 | -2.352854373 | |
| 21 | 51,150,000 | 51,300,000 | 683 | 1483 | -0.260204298 | |
| 21 | 51,225,000 | 51,375,000 | 684 | 948 | 0.857346054 | |
| 21 | 51,300,000 | 51,450,000 | 685 | 601 | 0.197917492 | |
| 21 | 51,375,000 | 51,525,000 | 686 | 717 | 0.177087071 | |
| 21 | 51,450,000 | 51,600,000 | 687 | 849 | 0.405393293 | |
| 21 | 51,525,000 | 51,675,000 | 688 | 834 | 0.043589022 | |
| 21 | 51,600,000 | 51,750,000 | 689 | 1418 | -0.730076094 | |
| 21 | 51,675,000 | 51,825,000 | 690 | 1458 | -0.785198201 | LRFN5 |
| 21 | 51,750,000 | 51,900,000 | 691 | 582 | -0.683154705 | LRFN5 |
| 21 | 51,825,000 | 51,975,000 | 692 | 404 | -0.417502072 | LRFN5 |
| 21 | 51,900,000 | 52,050,000 | 693 | 394 | 0.372811351 | LRFN5 |
| 21 | 51,975,000 | 52,125,000 | 694 | 818 | 0.336720546 | LRFN5 |
| 21 | 52,050,000 | 52,200,000 | 695 | 1449 | -1.422066479 | LRFN5 |
| 21 | 52,125,000 | 52,275,000 | 696 | 1429 | -1.587398412 | |
| 21 | 52,200,000 | 52,350,000 | 697 | 1151 | 0.045955028 | |
| 21 | 52,275,000 | 52,425,000 | 698 | 1100 | 1.01219754 | |
| 21 | 52,350,000 | 52,500,000 | 699 | 850 | 1.310704854 | |
| 21 | 52,425,000 | 52,575,000 | 700 | 669 | 1.124400796 | |
| 21 | 52,500,000 | 52,650,000 | 701 | 696 | 0.619468581 | |
| 21 | 52,575,000 | 52,725,000 | 702 | 539 | -0.05379049 | |
| 21 | 52,650,000 | 52,800,000 | 703 | 621 | -0.332282 | |
| 21 | 52,725,000 | 52,875,000 | 704 | 1001 | 0.062314781 | |
| 21 | 52,800,000 | 52,950,000 | 705 | 1077 | -0.476007081 | |
| 21 | 52,875,000 | 53,025,000 | 706 | 1288 | -1.067661244 | |
| 21 | 52,950,000 | 53,100,000 | 707 | 1409 | -0.765900454 | |
| 21 | 53,025,000 | 53,175,000 | 708 | 972 | -0.739044739 | |
| 21 | 53,100,000 | 53,250,000 | 709 | 579 | 0.482933354 | |
| 21 | 53,175,000 | 53,325,000 | 710 | 705 | 1.226555358 | ENSBTAG00000047710 |
| 21 | 53,250,000 | 53,400,000 | 711 | 751 | 0.852452233 | ENSBTAG00000047710 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 53,325,000 | 53,475,000 | 712 | 486 | 0.367253551 | |
| 21 | 53,400,000 | 53,550,000 | 713 | 591 | 1.217809505 | |
| 21 | 53,475,000 | 53,625,000 | 714 | 748 | 0.663901168 | |
| 21 | 53,550,000 | 53,700,000 | 715 | 862 | 0.165143911 | |
| 21 | 53,625,000 | 53,775,000 | 716 | 1219 | 0.529280994 | |
| 21 | 53,700,000 | 53,850,000 | 717 | 1463 | 0.351424303 | |
| 21 | 53,775,000 | 53,925,000 | 718 | 929 | -0.561301795 | |
| 21 | 53,850,000 | 54,000,000 | 719 | 462 | -0.597677673 | |
| 21 | 53,925,000 | 54,075,000 | 720 | 623 | 0.985724638 | |
| 21 | 54,000,000 | 54,150,000 | 721 | 552 | 0.858715241 | |
| 21 | 54,075,000 | 54,225,000 | 722 | 791 | -0.550518715 | ENSBTAG00000047240 |
| 21 | 54,150,000 | 54,300,000 | 723 | 1310 | -0.088612939 | ENSBTAG00000047240 |
| 21 | 54,225,000 | 54,375,000 | 724 | 1220 | 0.110592797 | |
| 21 | 54,300,000 | 54,450,000 | 725 | 1176 | -0.169338688 | |
| 21 | 54,375,000 | 54,525,000 | 726 | 1158 | 0.430934866 | |
| 21 | 54,450,000 | 54,600,000 | 727 | 893 | 0.310261643 | |
| 21 | 54,525,000 | 54,675,000 | 728 | 674 | -0.481595103 | |
| 21 | 54,600,000 | 54,750,000 | 729 | 432 | 0.170370651 | FSCB |
| 21 | 54,675,000 | 54,825,000 | 730 | 552 | 0.11993966 | FSCB |
| 21 | 54,750,000 | 54,900,000 | 731 | 622 | 0.333922555 | FSCB |
| 21 | 54,825,000 | 54,975,000 | 732 | 530 | 0.913320058 | |
| 21 | 54,900,000 | 55,050,000 | 733 | 816 | -0.610297347 | |
| 21 | 54,975,000 | 55,125,000 | 734 | 1303 | 0.299857299 | |
| 21 | 55,050,000 | 55,200,000 | 735 | 1380 | 1.120091233 | C14orf28,KLHL28 |
| 21 | 55,125,000 | 55,275,000 | 736 | 844 | 0.862710455 | C14orf28,FAM179B,KLHL28 |
| 21 | 55,200,000 | 55,350,000 | 737 | 685 | 0.17223365 | FAM179B,FKBP3,KLHL28,PRPF39,ENSBTAG0000004702 |
| 21 | 55,275,000 | 55,425,000 | 738 | 1100 | -0.310591061 | FAM179B,FANCM,FKBP3,MIS18BP1,PRPF39,ENSBTAG00000047002 |
| 21 | 55,350,000 | 55,500,000 | 739 | 1174 | -0.236870854 | FANCM,MIS18BP1,ENSBTAG00000047002 |
| 21 | 55,425,000 | 55,575,000 | 740 | 727 | 0.05417803 | MIS18BP1,TGM5,TGM7 |
| 21 | 55,500,000 | 55,650,000 | 741 | 576 | -0.760717635 | ADAL,LCMT2,RPL17,TGM5,TGM7,TUBGCP4,ZSCAN29 |
| 21 | 55,575,000 | 55,725,000 | 742 | 706 | -0.959071257 | ADAL,LCMT2,RPL17,TGM7,TP53BP1,TUBGCP4,ZSCAN29 |
| 21 | 55,650,000 | 55,800,000 | 743 | 749 | -0.486808298 | TP53BP1,TUBGCP4 |
| 21 | 55,725,000 | 55,875,000 | 744 | 652 | 0.025576431 | MAP1A,PPIP5K1,TP53BP1 |
| 21 | 55,800,000 | 55,950,000 | 745 | 515 | 0.549731913 | CATSPER2,CKMT1,ELL3,MAP1A,PDIA3,PPIP5K1,STRC |
| 21 | 55,875,000 | 56,025,000 | 746 | 769 | -0.239205621 | C21H15orf63,CATSPER2,CKMT1,ELL3,MFAP1,PDIA3,SE RINC4,STRC,WDR76,ENSBTAG00000047694 |
| 21 | 55,950,000 | 56,100,000 | 747 | 1114 | -1.063829628 | C21H15orf63,ELL3,FRMD5,MFAP1,SERINC4,WDR76,ENSBTAG00000047694 |
| 21 | 56,025,000 | 56,175,000 | 748 | 1157 | -0.691971474 | FRMD5,WDR76 |
| 21 | 56,100,000 | 56,250,000 | 749 | 921 | -0.114679629 | |
| 21 | 56,175,000 | 56,325,000 | 750 | 717 | -0.575917288 | |
| 21 | 56,250,000 | 56,400,000 | 751 | 822 | -1.265754296 | |
| 21 | 56,325,000 | 56,475,000 | 752 | 1032 | -0.340359841 | |
| 21 | 56,400,000 | 56,550,000 | 753 | 1150 | -0.620751056 | C14orf159 |
| 21 | 56,475,000 | 56,625,000 | 754 | 971 | -2.083988906 | C14orf159,GPR68 |
| 21 | 56,550,000 | 56,700,000 | 755 | 966 | -0.628289421 | C14orf159,CCDC88C,GPR68 |
| 21 | 56,625,000 | 56,775,000 | 756 | 1008 | 0.541947004 | CCDC88C |
| 21 | 56,700,000 | 56,850,000 | 757 | 673 | 0.398513824 | CCDC88C,SMEK1 |
| 21 | 56,775,000 | 56,925,000 | 758 | 680 | 0.294221743 | CATSPERB,SMEK1,UTP14A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 21 | 56,850,000 | 57,000,000 | 759 | 836 | 0.547599297 | CATSPERB,UTP14A |
| 21 | 56,925,000 | 57,075,000 | 760 | 682 | -0.178870121 | CATSPERB |
| 21 | 57,000,000 | 57,150,000 | 761 | 534 | -0.839278669 | CATSPERB,TC2N |
| 21 | 57,075,000 | 57,225,000 | 762 | 466 | -0.362427576 | FBLN5,TC2N |
| 21 | 57,150,000 | 57,300,000 | 763 | 651 | 0.106572028 | FBLN5 |
| 21 | 57,225,000 | 57,375,000 | 764 | 819 | 0.439453315 | ATXN3,FBLN5,TRIP11 |
| 21 | 57,300,000 | 57,450,000 | 765 | 788 | 0.363196482 | ATXN3,CPSF2,NDUFB1,TRIP11 |
| 21 | 57,375,000 | 57,525,000 | 766 | 1375 | 0.687109701 | ATXN3,CPSF2,NDUFB1 |
| 21 | 57,450,000 | 57,600,000 | 767 | 1686 | 0.721862375 | SLC24A4 |
| 21 | 57,525,000 | 57,675,000 | 768 | 1527 | 0.455953394 | SLC24A4 |
| 21 | 57,600,000 | 57,750,000 | 769 | 1317 | 0.562944162 | SLC24A4 |
| 21 | 57,675,000 | 57,825,000 | 770 | 1078 | 0.705810118 | SLC24A4 |
| 21 | 57,750,000 | 57,900,000 | 771 | 1021 | 0.658598505 | RIN3,SLC24A4 |
| 21 | 57,825,000 | 57,975,000 | 772 | 790 | -0.803540675 | LGMN,RIN3 |
| 21 | 57,900,000 | 58,050,000 | 773 | 668 | -2.249043806 | LGMN,RIN3 |
| 21 | 57,975,000 | 58,125,000 | 774 | 819 | 0.288815676 | GOLGA5,LGMN |
| 21 | 58,050,000 | 58,200,000 | 775 | 824 | 0.26302602 | CHGA,GOLGA5,ITPK1 |
| 21 | 58,125,000 | 58,275,000 | 776 | 765 | -2.025773422 | CHGA,ITPK1 |
| 21 | 58,200,000 | 58,350,000 | 777 | 723 | -1.95445943 | ITPK1 |
| 21 | 58,275,000 | 58,425,000 | 778 | 685 | 0.330043357 | C21H14orf142,ITPK1,TMEM251,UBR7 |
| 21 | 58,350,000 | 58,500,000 | 779 | 601 | 0.840839141 | BTBD7,C21H14orf142,TMEM251,UBR7 |
| 21 | 58,425,000 | 58,575,000 | 780 | 576 | 1.087859915 | BTBD7,UBR7 |
| 21 | 58,500,000 | 58,650,000 | 781 | 848 | 0.925129047 | BTBD7 |
| 21 | 58,575,000 | 58,725,000 | 782 | 982 | 0.660734216 | UNC79 |
| 21 | 58,650,000 | 58,800,000 | 783 | 777 | 0.34631891 | UNC79 |
| 21 | 58,725,000 | 58,875,000 | 784 | 560 | 0.246093927 | UNC79 |
| 21 | 58,800,000 | 58,950,000 | 785 | 490 | 0.711784559 | PRIMA1,UNC79 |
| 21 | 58,875,000 | 59,025,000 | 786 | 722 | -0.130049977 | PRIMA1,UNC79 |
| 21 | 58,950,000 | 59,100,000 | 787 | 1056 | -0.373024404 | PRIMA1 |
| 21 | 59,025,000 | 59,175,000 | 788 | 1126 | -0.802614934 | ASB2,FAM181A |
| 21 | 59,100,000 | 59,250,000 | 789 | 1522 | -0.097855866 | ASB2,FAM181A,OTUB2,ENSBTAG00000016112 |
| 21 | 59,175,000 | 59,325,000 | 790 | 1618 | 0.023096162 | DDX24,ISG12(B),OTUB2,ENSBTAG00000016112,ENSBTAG00000031834 |
| 21 | 59,250,000 | 59,400,000 | 791 | 1240 | -1.085149548 | DDX24,IFI27,IFI27L2,ISG12(B),OTUB2,PPP4R4,ENSBTAG00000031834 |
| 21 | 59,325,000 | 59,475,000 | 792 | 889 | -0.656632194 | IFI27,IFI27L2,PPP4R4 |
| 21 | 59,400,000 | 59,550,000 | 793 | 637 | 0.413893897 | PPP4R4,SERPINA10,SERPINA6 |
| 21 | 59,475,000 | 59,625,000 | 794 | 649 | 0.477240134 | PPP4R4,SERPINA1,SERPINA10,SERPINA6 |
| 21 | 59,550,000 | 59,700,000 | 795 | 864 | -0.206698035 | SERPINA1,SERPINA11,ENSBTAG00000007392 |
| 21 | 59,625,000 | 59,775,000 | 796 | 804 | -0.772576173 | SERPINA11,SERPINA12,SERPINA4,ENSBTAG00000007392 |
| 21 | 59,700,000 | 59,850,000 | 797 | 632 | -0.127083101 | SERPINA12,SERPINA3-1,SERPINA4,SERPINA5 |
| 21 | 59,775,000 | 59,925,000 | 798 | 657 | -0.335633279 | SERPINA3-1,SERPINA5 |
| 21 | 59,850,000 | 60,000,000 | 799 | 785 | -0.390948967 | |
| 21 | 59,925,000 | 60,075,000 | 800 | 1237 | -0.298630278 | |
| 21 | 60,000,000 | 60,150,000 | 801 | 1119 | -0.167011371 | |
| 21 | 60,075,000 | 60,225,000 | 802 | 727 | 0.445460733 | |
| 21 | 60,150,000 | 60,300,000 | 803 | 806 | -1.168241383 | |
| 21 | 60,225,000 | 60,375,000 | 804 | 915 | -2.612971453 | |
| 21 | 60,300,000 | 60,450,000 | 805 | 705 | -1.537313951 | |
| 21 | 60,375,000 | 60,525,000 | 806 | 414 | -0.243490115 | ERICH1 |
| 21 | 60,450,000 | 60,600,000 | 807 | 300 | -0.044967319 | ERICH1 |
| 21 | 60,525,000 | 60,675,000 | 808 | 274 | 0.864622597 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 60,600,000 | 60,750,000 | 809 | 434 | 1.159858951 | |
| 21 | 60,675,000 | 60,825,000 | 810 | 369 | 0.949576603 | |
| 21 | 60,750,000 | 60,900,000 | 811 | 146 | 0.467589429 | ENSBTAG00000024311 |
| | | | | | | SERPINA3- |
| 21 | 60,825,000 | 60,975,000 | 812 | 285 | 0.089002872 | 6,ENSBTAG00000007043,ENSBTAG00000024311,ENSBTAG00000026917 |
| | | | | | | SERPINA3- |
| 21 | 60,900,000 | 61,050,000 | 813 | 605 | -0.55957773 | 6,ENSBTAG00000003492,ENSBTAG00000007041,ENSBTAG00000007043,ENSBTAG00000026917 |
| | | | | | | ENSBTAG00000003492,ENSBTAG00000007041,ENSBTAG00000007043 |
| 21 | 60,975,000 | 61,125,000 | 814 | 1089 | -0.061135831 | AG00000007043 |
| 21 | 61,050,000 | 61,200,000 | 815 | 976 | 0.507341981 | GSC |
| 21 | 61,125,000 | 61,275,000 | 816 | 846 | 0.727518321 | GSC |
| 21 | 61,200,000 | 61,350,000 | 817 | 1284 | -0.051633424 | |
| 21 | 61,275,000 | 61,425,000 | 818 | 1484 | 0.075212807 | |
| 21 | 61,350,000 | 61,500,000 | 819 | 1453 | 0.317078604 | |
| 21 | 61,425,000 | 61,575,000 | 820 | 1113 | 0.249987108 | DICER1 |
| 21 | 61,500,000 | 61,650,000 | 821 | 1222 | 0.797135856 | CLMN,DICER1 |
| 21 | 61,575,000 | 61,725,000 | 822 | 1458 | 0.524620694 | CLMN,ENSBTAG00000048094 |
| 21 | 61,650,000 | 61,800,000 | 823 | 1418 | 0.665903958 | CLMN,ENSBTAG00000048094 |
| 21 | 61,725,000 | 61,875,000 | 824 | 1641 | 0.866742306 | SYNE3 |
| 21 | 61,800,000 | 61,950,000 | 825 | 1852 | 0.814958774 | SYNE3 |
| 21 | 61,875,000 | 62,025,000 | 826 | 1500 | 0.395957304 | GLRX5,SYNE3 |
| 21 | 61,950,000 | 62,100,000 | 827 | 1287 | -1.083488737 | GLRX5,SYNE3,TCL1B |
| 21 | 62,025,000 | 62,175,000 | 828 | 1232 | -1.411439996 | TCL1A,TCL1B |
| 21 | 62,100,000 | 62,250,000 | 829 | 907 | -0.179836951 | TCL1A,TCL1B |
| 21 | 62,175,000 | 62,325,000 | 830 | 787 | 0.995827119 | |
| 21 | 62,250,000 | 62,400,000 | 831 | 907 | -0.129830626 | |
| 21 | 62,325,000 | 62,475,000 | 832 | 1052 | -0.404143765 | |
| 21 | 62,400,000 | 62,550,000 | 833 | 1305 | -1.420761186 | |
| 21 | 62,475,000 | 62,625,000 | 834 | 1337 | -1.594070686 | |
| 21 | 62,550,000 | 62,700,000 | 835 | 1425 | -1.975310096 | |
| 21 | 62,625,000 | 62,775,000 | 836 | 1404 | -1.961331359 | BDKRB1,BDKRB2 |
| 21 | 62,700,000 | 62,850,000 | 837 | 695 | -0.005502203 | ATG2B,BDKRB1,BDKRB2 |
| 21 | 62,775,000 | 62,925,000 | 838 | 589 | -1.442137882 | AK7,ATG2B,GSKIP |
| 21 | 62,850,000 | 63,000,000 | 839 | 731 | -1.914305297 | AK7,ATG2B,GSKIP,PAPOLA |
| 21 | 62,925,000 | 63,075,000 | 840 | 595 | -0.753482256 | AK7,PAPOLA |
| 21 | 63,000,000 | 63,150,000 | 841 | 556 | 0.939649434 | PAPOLA |
| 21 | 63,075,000 | 63,225,000 | 842 | 614 | 0.466859061 | |
| 21 | 63,150,000 | 63,300,000 | 843 | 597 | 0.214024522 | VRK1 |
| 21 | 63,225,000 | 63,375,000 | 844 | 529 | 0.793456927 | VRK1 |
| 21 | 63,300,000 | 63,450,000 | 845 | 760 | 0.380612219 | VRK1 |
| 21 | 63,375,000 | 63,525,000 | 846 | 745 | 0.290340103 | |
| 21 | 63,450,000 | 63,600,000 | 847 | 796 | 1.13377655 | |
| 21 | 63,525,000 | 63,675,000 | 848 | 1105 | 0.89775945 | |
| 21 | 63,600,000 | 63,750,000 | 849 | 1012 | 0.15113725 | |
| 21 | 63,675,000 | 63,825,000 | 850 | 856 | -0.577877397 | |
| 21 | 63,750,000 | 63,900,000 | 851 | 620 | -0.971714984 | |
| 21 | 63,825,000 | 63,975,000 | 852 | 568 | 0.354663927 | |
| 21 | 63,900,000 | 64,050,000 | 853 | 726 | 0.143769738 | |
| 21 | 63,975,000 | 64,125,000 | 854 | 829 | 0.184545382 | |
| 21 | 64,050,000 | 64,200,000 | 855 | 1121 | 0.319358735 | |
| 21 | 64,125,000 | 64,275,000 | 856 | 1211 | 0.193571174 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 64,200,000 | 64,350,000 | 857 | 1206 | 0.175177494 | |
| 21 | 64,275,000 | 64,425,000 | 858 | 1158 | -0.576984118 | |
| 21 | 64,350,000 | 64,500,000 | 859 | 929 | -0.639402433 | |
| 21 | 64,425,000 | 64,575,000 | 860 | 1045 | 0.133060942 | |
| 21 | 64,500,000 | 64,650,000 | 861 | 927 | 0.048019289 | |
| 21 | 64,575,000 | 64,725,000 | 862 | 502 | 0.172225719 | |
| 21 | 64,650,000 | 64,800,000 | 863 | 713 | -0.182895688 | |
| 21 | 64,725,000 | 64,875,000 | 864 | 1074 | 0.002885319 | |
| 21 | 64,800,000 | 64,950,000 | 865 | 880 | 0.723570579 | |
| 21 | 64,875,000 | 65,025,000 | 866 | 735 | 0.673784173 | |
| 21 | 64,950,000 | 65,100,000 | 867 | 920 | 0.010388557 | |
| 21 | 65,025,000 | 65,175,000 | 868 | 1086 | 0.486168704 | |
| 21 | 65,100,000 | 65,250,000 | 869 | 1161 | 0.965834203 | |
| 21 | 65,175,000 | 65,325,000 | 870 | 1228 | 0.629736178 | |
| 21 | 65,250,000 | 65,400,000 | 871 | 997 | 0.181364705 | |
| 21 | 65,325,000 | 65,475,000 | 872 | 610 | 0.391180237 | |
| 21 | 65,400,000 | 65,550,000 | 873 | 710 | 0.547613773 | |
| 21 | 65,475,000 | 65,625,000 | 874 | 929 | 0.110395508 | |
| 21 | 65,550,000 | 65,700,000 | 875 | 909 | 0.399686284 | |
| 21 | 65,625,000 | 65,775,000 | 876 | 702 | 0.114445681 | |
| 21 | 65,700,000 | 65,850,000 | 877 | 539 | -1.040805868 | BCL11B |
| 21 | 65,775,000 | 65,925,000 | 878 | 464 | 0.696395771 | BCL11B |
| 21 | 65,850,000 | 66,000,000 | 879 | 560 | 0.34044931 | BCL11B |
| 21 | 65,925,000 | 66,075,000 | 880 | 615 | 0.35864975 | BCL11B,SETD3 |
| 21 | 66,000,000 | 66,150,000 | 881 | 551 | 0.783864758 | SETD3 |
| 21 | 66,075,000 | 66,225,000 | 882 | 804 | 0.384667203 | CCDC85C,CCNK,SETD3 |
| 21 | 66,150,000 | 66,300,000 | 883 | 1008 | 0.059893605 | CCDC85C,CCNK,HHIPL1 |
| 21 | 66,225,000 | 66,375,000 | 884 | 1031 | 0.108038109 | CCDC85C,CYP46A1,EMAPL,HHIPL1 |
| 21 | 66,300,000 | 66,450,000 | 885 | 1046 | 0.00999239 | CYP46A1,EMAPL,HHIPL1 |
| 21 | 66,375,000 | 66,525,000 | 886 | 1125 | 0.353568823 | EMAPL |
| 21 | 66,450,000 | 66,600,000 | 887 | 948 | 0.621748777 | EMAPL |
| 21 | 66,525,000 | 66,675,000 | 888 | 609 | 0.569542657 | EMAPL |
| 21 | 66,600,000 | 66,750,000 | 889 | 611 | 0.978249803 | DEGS2,EVL |
| 21 | 66,675,000 | 66,825,000 | 890 | 955 | 0.722961189 | DEGS2,EVL,YY1,ENSBTAG00000045497 |
| 21 | 66,750,000 | 66,900,000 | 891 | 1106 | -0.131047577 | DEGS2,SLC25A29,SLC25A47,WARS,YY1,ENSBTAG00000045497 |
| 21 | 66,825,000 | 66,975,000 | 892 | 1165 | -0.803761609 | SLC25A29,SLC25A47,WARS,WDR25,YY1 |
| 21 | 66,900,000 | 67,050,000 | 893 | 1347 | 0.37342922 | WARS,WDR25 |
| 21 | 66,975,000 | 67,125,000 | 894 | 921 | 0.586736599 | BEGAIN,WDR25 |
| 21 | 67,050,000 | 67,200,000 | 895 | 822 | 0.175661261 | BEGAIN,WDR25 |
| 21 | 67,125,000 | 67,275,000 | 896 | 704 | 0.329349869 | DLK |
| 21 | 67,200,000 | 67,350,000 | 897 | 311 | 0.457787771 | DLK |
| 21 | 67,275,000 | 67,425,000 | 898 | 419 | 0.18308623 | DLK |
| 21 | 67,350,000 | 67,500,000 | 899 | 439 | -0.055293222 | RTL1 |
| 21 | 67,425,000 | 67,575,000 | 900 | 506 | 0.86282907 | RTL1 |
| 21 | 67,500,000 | 67,650,000 | 901 | 426 | 0.918834916 | |
| 21 | 67,575,000 | 67,725,000 | 902 | 373 | -0.172978945 | |
| 21 | 67,650,000 | 67,800,000 | 903 | 519 | -0.310003135 | |
| 21 | 67,725,000 | 67,875,000 | 904 | 765 | 0.153773734 | |
| 21 | 67,800,000 | 67,950,000 | 905 | 961 | 0.229133657 | |
| 21 | 67,875,000 | 68,025,000 | 906 | 830 | 0.326286581 | |
| 21 | 67,950,000 | 68,100,000 | 907 | 605 | 0.329531747 | |
| 21 | 68,025,000 | 68,175,000 | 908 | 622 | -0.179774516 | DIO3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 21 | 68,100,000 | 68,250,000 | 909 | 608 | -0.046048025 | DIO3 |
| 21 | 68,175,000 | 68,325,000 | 910 | 569 | 0.625978283 | |
| 21 | 68,250,000 | 68,400,000 | 911 | 739 | 0.470868261 | PPP2R5C |
| 21 | 68,325,000 | 68,475,000 | 912 | 656 | 0.432400212 | PPP2R5C |
| 21 | 68,400,000 | 68,550,000 | 913 | 400 | 1.2540533 | DYNC1H1,PPP2R5C |
| 21 | 68,475,000 | 68,625,000 | 914 | 425 | 1.27462868 | DYNC1H1,HSP90AA1,MGC152337 |
| 21 | 68,550,000 | 68,700,000 | 915 | 476 | 0.709119463 | DYNC1H1,HSP90AA1,MGC152337,WDR20 |
| 21 | 68,625,000 | 68,775,000 | 916 | 471 | -1.696249874 | MOK,RPL9,WDR20 |
| 21 | 68,700,000 | 68,850,000 | 917 | 452 | -1.705378027 | CINP,MOK,RPL9,TECPR2,ZNF839 |
| 21 | 68,775,000 | 68,925,000 | 918 | 353 | -0.101592249 | ANKRD9,CINP,TECPR2,ZNF839 |
| 21 | 68,850,000 | 69,000,000 | 919 | 324 | -0.037548257 | ANKRD9,RCOR1,TECPR2 |
| 21 | 68,925,000 | 69,075,000 | 920 | 336 | 0.042539417 | RCOR1 |
| 21 | 69,000,000 | 69,150,000 | 921 | 382 | 0.374756536 | RCOR1 |
| 21 | 69,075,000 | 69,225,000 | 922 | 503 | -0.206765565 | RCOR1 |
| 21 | 69,150,000 | 69,300,000 | 923 | 657 | -0.290930845 | AMN,CDC42BPB,TRAF3 |
| 21 | 69,225,000 | 69,375,000 | 924 | 612 | -0.038848508 | AMN,CDC42BPB,TRAF3 |
| 21 | 69,300,000 | 69,450,000 | 925 | 872 | 0.00811242 | CDC42BPB,EXOC3L4 |
| 21 | 69,375,000 | 69,525,000 | 926 | 1328 | -0.135549481 | EXOC3L4,TNFAIP2 |
| 21 | 69,450,000 | 69,600,000 | 927 | 1066 | -0.026731903 | TNFAIP2,ENSBTAG00000047319 |
| 21 | 69,525,000 | 69,675,000 | 928 | 668 | -0.019475901 | EIF5,ENSBTAG00000047319 |
| 21 | 69,600,000 | 69,750,000 | 929 | 495 | -0.618938083 | EIF5,MARK3 |
| 21 | 69,675,000 | 69,825,000 | 930 | 355 | 0.237678344 | CKB,MARK3,TRMT61A |
| 21 | 69,750,000 | 69,900,000 | 931 | 704 | 0.549579227 | APOPT1,BAG5,CKB,KLC1,MARK3,TRMT61A |
| 21 | 69,825,000 | 69,975,000 | 932 | 841 | 0.499065034 | APOPT1,BAG5,KLC1,XRCC3 |
| 21 | 69,900,000 | 70,050,000 | 933 | 642 | -0.041148477 | KLC1,PPP1R13B,XRCC3,ZFYVE21 |
| 21 | 69,975,000 | 70,125,000 | 934 | 803 | -0.351039222 | MP68,PPP1R13B,TDRD9,ZFYVE21,ENSBTAG00000046186 |
| 21 | 70,050,000 | 70,200,000 | 935 | 1105 | -1.117254953 | MP68,PPP1R13B,RD3L,TDRD9,ENSBTAG00000046186 |
| 21 | 70,125,000 | 70,275,000 | 936 | 1043 | -1.880969452 | ASPG,RD3L,TDRD9 |
| 21 | 70,200,000 | 70,350,000 | 937 | 789 | -1.579112306 | ASPG,KIF26A,TDRD9 |
| 21 | 70,275,000 | 70,425,000 | 938 | 869 | 0.47856747 | ASPG,KIF26A |
| 21 | 70,350,000 | 70,500,000 | 939 | 1226 | -0.503792098 | KIF26A |
| 21 | 70,425,000 | 70,575,000 | 940 | 1429 | -1.804103087 | |
| 21 | 70,500,000 | 70,650,000 | 941 | 1147 | -1.294592222 | |
| 21 | 70,575,000 | 70,725,000 | 942 | 1024 | 0.044996165 | C14orf180,TMEM179 |
| 21 | 70,650,000 | 70,800,000 | 943 | 928 | -1.213086664 | C14orf180,TMEM179 |
| 21 | 70,725,000 | 70,875,000 | 944 | 658 | -1.34388468 | ADSSL1,INF2,SIVA1,TMEM179 |
| 21 | 70,800,000 | 70,950,000 | 945 | 513 | -0.398545434 | ADSSL1,AKT1,CEP170B,INF2,SIVA1,ZBTB42 |
| 21 | 70,875,000 | 71,025,000 | 946 | 454 | 0.283734681 | AHNAK2,AKT1,CEP170B,PLD4,ZBTB42 |
| 21 | 70,950,000 | 71,100,000 | 947 | 510 | 0.428411106 | AHNAK2,C14orf79,CDCA4,CEP170B,GPR132,PLD4 |
| 21 | 71,025,000 | 71,175,000 | 948 | 566 | -0.246881068 | C14orf79,CDCA4,GPR132,JAG2,NUDT14 |
| 21 | 71,100,000 | 71,250,000 | 949 | 797 | 0.189872284 | BRF1,BTBD6,JAG2,NUDT14,ENSBTAG00000046364 |
| 21 | 71,175,000 | 71,325,000 | 950 | 943 | 0.560041333 | BRF1,BTBD6,PACS2,ENSBTAG00000046364 |
| 21 | 71,250,000 | 71,400,000 | 951 | 859 | 0.268875836 | C14orf80,CRIP1,MTA1,PACS2,ENSBTAG00000046364 |
| 21 | 71,325,000 | 71,475,000 | 952 | 1242 | -0.512238693 | C14orf80,CRIP1,IGHE,MTA1,TMEM121,ENSBTAG00000046364,ENSBTAG00000047700,ENSBTAG00000047970 |
| 21 | 71,400,000 | 71,550,000 | 953 | 1580 | -0.341673948 | IGHE,IGHM,TMEM121,ENSBTAG00000046161,ENSBTAG00000047700,ENSBTAG00000047970,ENSBTAG000048268 |
| 21 | 71,475,000 | 71,599,096 | 954 | 1112 | -0.059001035 | IGHM,ENSBTAG00000046076,ENSBTAG00000046161,ENSBTAG00000048268 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 22 | 0 | 150,000 | 1 | 661 | 0.559935612 | ENSBTAG00000023954,ENSBTAG00000045666,ENSBTAG00000046011,ENSBTAG00000046634 |
| 22 | 75,000 | 225,000 | 2 | 909 | 1.049476981 | MRPS24,URGCP,ENSBTAG00000023954 |
| 22 | 150,000 | 300,000 | 3 | 1036 | 1.245525224 | MRPS24,URGCP |
| 22 | 225,000 | 375,000 | 4 | 816 | 1.186767569 | DBNL,PGAM2,UBE2D4,URGCP |
| 22 | 300,000 | 450,000 | 5 | 614 | 1.095002244 | DBNL,PGAM2,UBE2D4 |
| 22 | 375,000 | 525,000 | 6 | 598 | -0.21112791 | VOPP1 |
| 22 | 450,000 | 600,000 | 7 | 821 | 0.374921517 | VOPP1 |
| 22 | 525,000 | 675,000 | 8 | 1067 | 1.237516857 | VOPP1 |
| 22 | 600,000 | 750,000 | 9 | 1313 | 1.254523562 | LANCL2,VOPP1 |
| 22 | 675,000 | 825,000 | 10 | 1545 | 1.031598412 | LANCL2,VOPP1 |
| 22 | 750,000 | 900,000 | 11 | 1397 | 0.694128753 | EGFR,LANCL2 |
| 22 | 825,000 | 975,000 | 12 | 1101 | 0.56676269 | EGFR |
| 22 | 900,000 | 1,050,000 | 13 | 762 | 0.50637516 | EGFR |
| 22 | 975,000 | 1,125,000 | 14 | 423 | -0.342473779 | EGFR |
| 22 | 1,050,000 | 1,200,000 | 15 | 339 | -0.426912079 | EGFR |
| 22 | 1,125,000 | 1,275,000 | 16 | 803 | 0.254308017 | |
| 22 | 1,200,000 | 1,350,000 | 17 | 1015 | 0.686200295 | |
| 22 | 1,275,000 | 1,425,000 | 18 | 1131 | 0.933525701 | |
| 22 | 1,350,000 | 1,500,000 | 19 | 1378 | 0.431739455 | NEK10,SEC61G |
| 22 | 1,425,000 | 1,575,000 | 20 | 1131 | 0.171859551 | NEK10,SEC61G |
| 22 | 1,500,000 | 1,650,000 | 21 | 1073 | 0.491798454 | NEK10 |
| 22 | 1,575,000 | 1,725,000 | 22 | 1112 | -0.495290848 | NEK10 |
| 22 | 1,650,000 | 1,800,000 | 23 | 842 | -1.669503446 | NEK10,SLC4A7 |
| 22 | 1,725,000 | 1,875,000 | 24 | 504 | -1.3983179 | SLC4A7 |
| 22 | 1,800,000 | 1,950,000 | 25 | 568 | 0.740352959 | SLC4A7,ENSBTAG00000030494 |
| 22 | 1,875,000 | 2,025,000 | 26 | 635 | 0.326413023 | SLC4A7,ENSBTAG00000030494 |
| 22 | 1,950,000 | 2,100,000 | 27 | 614 | 0.255746115 | |
| 22 | 2,025,000 | 2,175,000 | 28 | 809 | 0.658591551 | EOMES |
| 22 | 2,100,000 | 2,250,000 | 29 | 919 | 0.598082584 | EOMES |
| 22 | 2,175,000 | 2,325,000 | 30 | 752 | 0.58896294 | |
| 22 | 2,250,000 | 2,400,000 | 31 | 822 | 0.328123952 | |
| 22 | 2,325,000 | 2,475,000 | 32 | 902 | 0.201663144 | |
| 22 | 2,400,000 | 2,550,000 | 33 | 741 | 0.555035132 | |
| 22 | 2,475,000 | 2,625,000 | 34 | 1165 | 0.347453928 | |
| 22 | 2,550,000 | 2,700,000 | 35 | 1294 | 0.303538008 | CMC1 |
| 22 | 2,625,000 | 2,775,000 | 36 | 849 | 0.477103437 | AZI2,CMC1 |
| 22 | 2,700,000 | 2,850,000 | 37 | 926 | 0.931739876 | AZI2,CMC1,ZCWPW2 |
| 22 | 2,775,000 | 2,925,000 | 38 | 900 | 0.685181648 | AZI2,ZCWPW2 |
| 22 | 2,850,000 | 3,000,000 | 39 | 705 | 0.510571838 | ZCWPW2 |
| 22 | 2,925,000 | 3,075,000 | 40 | 800 | 0.380606716 | ZCWPW2 |
| 22 | 3,000,000 | 3,150,000 | 41 | 717 | 0.057398427 | |
| 22 | 3,075,000 | 3,225,000 | 42 | 954 | 0.706735679 | |
| 22 | 3,150,000 | 3,300,000 | 43 | 1283 | 0.897064428 | |
| 22 | 3,225,000 | 3,375,000 | 44 | 1236 | 0.769657673 | |
| 22 | 3,300,000 | 3,450,000 | 45 | 1180 | 0.66960361 | |
| 22 | 3,375,000 | 3,525,000 | 46 | 1245 | 0.789753774 | |
| 22 | 3,450,000 | 3,600,000 | 47 | 1405 | 1.241427174 | |
| 22 | 3,525,000 | 3,675,000 | 48 | 1552 | 1.316325936 | |
| 22 | 3,600,000 | 3,750,000 | 49 | 1464 | 1.165178093 | |
| 22 | 3,675,000 | 3,825,000 | 50 | 1063 | 1.015943032 | |
| 22 | 3,750,000 | 3,900,000 | 51 | 782 | 0.378428215 | RBMS3 |
| 22 | 3,825,000 | 3,975,000 | 52 | 698 | -0.452011294 | RBMS3 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---|
| 22 | 3,900,000 | 4,050,000 | 53 | 776 | -0.191006506 | RBMS3 |
| 22 | 3,975,000 | 4,125,000 | 54 | 718 | 0.692636984 | RBMS3 |
| 22 | 4,050,000 | 4,200,000 | 55 | 695 | 1.017503476 | RBMS3 |
| 22 | 4,125,000 | 4,275,000 | 56 | 703 | 0.665606882 | RBMS3 |
| 22 | 4,200,000 | 4,350,000 | 57 | 585 | 0.623509569 | RBMS3 |
| 22 | 4,275,000 | 4,425,000 | 58 | 896 | 0.101623435 | RBMS3 |
| 22 | 4,350,000 | 4,500,000 | 59 | 1229 | -0.502730585 | RBMS3 |
| 22 | 4,425,000 | 4,575,000 | 60 | 888 | -0.576306194 | RBMS3 |
| 22 | 4,500,000 | 4,650,000 | 61 | 587 | -0.799256084 | RBMS3 |
| 22 | 4,575,000 | 4,725,000 | 62 | 808 | -1.800065383 | RBMS3 |
| 22 | 4,650,000 | 4,800,000 | 63 | 1141 | -2.595534077 | RBMS3 |
| 22 | 4,725,000 | 4,875,000 | 64 | 1291 | -1.008555724 | |
| 22 | 4,800,000 | 4,950,000 | 65 | 1092 | 0.742380051 | |
| 22 | 4,875,000 | 5,025,000 | 66 | 1134 | 0.702918477 | |
| 22 | 4,950,000 | 5,100,000 | 67 | 866 | 0.494174905 | |
| 22 | 5,025,000 | 5,175,000 | 68 | 519 | 0.262722939 | TGFBR2 |
| 22 | 5,100,000 | 5,250,000 | 69 | 847 | 0.079953343 | TGFBR2 |
| 22 | 5,175,000 | 5,325,000 | 70 | 1116 | -0.271978016 | GADL1,TGFBR2 |
| 22 | 5,250,000 | 5,400,000 | 71 | 1003 | -0.402209044 | GADL1 |
| 22 | 5,325,000 | 5,475,000 | 72 | 677 | -0.654569569 | GADL1 |
| 22 | 5,400,000 | 5,550,000 | 73 | 688 | -0.37024877 | GADL1 |
| 22 | 5,475,000 | 5,625,000 | 74 | 1224 | 0.452903633 | |
| 22 | 5,550,000 | 5,700,000 | 75 | 1435 | 0.701148831 | |
| 22 | 5,625,000 | 5,775,000 | 76 | 1221 | -0.156503252 | |
| 22 | 5,700,000 | 5,850,000 | 77 | 937 | -0.86075765 | |
| 22 | 5,775,000 | 5,925,000 | 78 | 780 | -0.162170586 | |
| 22 | 5,850,000 | 6,000,000 | 79 | 1038 | 0.390612518 | |
| 22 | 5,925,000 | 6,075,000 | 80 | 1354 | 0.860885016 | |
| 22 | 6,000,000 | 6,150,000 | 81 | 1012 | 0.887565464 | STT3B |
| 22 | 6,075,000 | 6,225,000 | 82 | 736 | 0.812967508 | OSBPL10,STT3B |
| 22 | 6,150,000 | 6,300,000 | 83 | 1056 | 0.381402181 | OSBPL10,STT3B |
| 22 | 6,225,000 | 6,375,000 | 84 | 1223 | 0.016703878 | OSBPL10 |
| 22 | 6,300,000 | 6,450,000 | 85 | 1112 | -0.279772207 | |
| 22 | 6,375,000 | 6,525,000 | 86 | 931 | -0.502344867 | |
| 22 | 6,450,000 | 6,600,000 | 87 | 749 | -1.489423214 | |
| 22 | 6,525,000 | 6,675,000 | 88 | 828 | -1.457023131 | GPD1L |
| 22 | 6,600,000 | 6,750,000 | 89 | 665 | -0.210918886 | GPD1L |
| 22 | 6,675,000 | 6,825,000 | 90 | 771 | 0.801963271 | CMTM8,GPD1L |
| 22 | 6,750,000 | 6,900,000 | 91 | 940 | 0.246067856 | CMTM7,CMTM8 |
| 22 | 6,825,000 | 6,975,000 | 92 | 732 | -0.287564838 | CMTM7,CMTM8 |
| 22 | 6,900,000 | 7,050,000 | 93 | 883 | -0.899532301 | CMTM6,CMTM7,DYNC1LI1 |
| 22 | 6,975,000 | 7,125,000 | 94 | 668 | -1.212901477 | CMTM6,DYNC1LI1,ENSBTAG00000025595 |
| 22 | 7,050,000 | 7,200,000 | 95 | 333 | 0.196766448 | CNOT10,DYNC1LI1,ENSBTAG00000025595 |
| 22 | 7,125,000 | 7,275,000 | 96 | 325 | -0.844516248 | CNOT10 |
| 22 | 7,200,000 | 7,350,000 | 97 | 372 | -0.949552336 | CNOT10,TRIM71 |
| 22 | 7,275,000 | 7,425,000 | 98 | 633 | -0.592430954 | CCR4,GLB1,TRIM71 |
| 22 | 7,350,000 | 7,500,000 | 99 | 729 | -0.195884067 | CCR4,GLB1 |
| 22 | 7,425,000 | 7,575,000 | 100 | 1048 | 0.490782494 | CRTAP,GLB1,SUSD5,ENSBTAG00000034871 |
| 22 | 7,500,000 | 7,650,000 | 101 | 1352 | -1.073439446 | CRTAP,FBXL2,GLB1,SUSD5,ENSBTAG00000034871 |
| 22 | 7,575,000 | 7,725,000 | 102 | 971 | -1.942013728 | FBXL2,SUSD5,UBP1 |
| 22 | 7,650,000 | 7,800,000 | 103 | 590 | -0.715565948 | FBXL2,UBP1 |
| 22 | 7,725,000 | 7,875,000 | 104 | 521 | 0.815599238 | CLASP2,UBP1 |
| 22 | 7,800,000 | 7,950,000 | 105 | 564 | 0.522934966 | CLASP2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------------|
| 22 | 7,875,000 | 8,025,000 | 106 | 681 | -1.240209789 | CLASP2 |
| 22 | 7,950,000 | 8,100,000 | 107 | 1153 | -1.511478431 | CLASP2,PDCD6IP |
| 22 | 8,025,000 | 8,175,000 | 108 | 1161 | -0.355166946 | PDCD6IP |
| 22 | 8,100,000 | 8,250,000 | 109 | 1231 | 0.584908556 | PDCD6IP |
| 22 | 8,175,000 | 8,325,000 | 110 | 1461 | -0.345290269 | |
| 22 | 8,250,000 | 8,400,000 | 111 | 1186 | -0.765599028 | |
| 22 | 8,325,000 | 8,475,000 | 112 | 1230 | 0.294174961 | |
| 22 | 8,400,000 | 8,550,000 | 113 | 1127 | -0.203297107 | |
| 22 | 8,475,000 | 8,625,000 | 114 | 889 | -0.86862168 | |
| 22 | 8,550,000 | 8,700,000 | 115 | 1071 | 0.510793419 | |
| 22 | 8,625,000 | 8,775,000 | 116 | 898 | 0.764386017 | |
| 22 | 8,700,000 | 8,850,000 | 117 | 833 | 0.533418579 | |
| 22 | 8,775,000 | 8,925,000 | 118 | 1322 | 0.709408035 | |
| 22 | 8,850,000 | 9,000,000 | 119 | 1214 | 0.698825771 | |
| 22 | 8,925,000 | 9,075,000 | 120 | 968 | -0.042092654 | |
| 22 | 9,000,000 | 9,150,000 | 121 | 970 | 0.241961936 | |
| 22 | 9,075,000 | 9,225,000 | 122 | 819 | 0.720835263 | |
| 22 | 9,150,000 | 9,300,000 | 123 | 586 | -0.119222607 | |
| 22 | 9,225,000 | 9,375,000 | 124 | 476 | -0.412730423 | |
| 22 | 9,300,000 | 9,450,000 | 125 | 675 | -0.464212303 | |
| 22 | 9,375,000 | 9,525,000 | 126 | 768 | -0.994795591 | |
| 22 | 9,450,000 | 9,600,000 | 127 | 817 | -0.52502314 | |
| 22 | 9,525,000 | 9,675,000 | 128 | 652 | -0.003807824 | ARPP21 |
| 22 | 9,600,000 | 9,750,000 | 129 | 581 | 0.279246816 | ARPP21 |
| 22 | 9,675,000 | 9,825,000 | 130 | 859 | 0.061189176 | ARPP21 |
| 22 | 9,750,000 | 9,900,000 | 131 | 934 | -0.987922563 | ARPP21 |
| 22 | 9,825,000 | 9,975,000 | 132 | 764 | -1.339616854 | |
| 22 | 9,900,000 | 10,050,000 | 133 | 538 | -0.526178281 | |
| 22 | 9,975,000 | 10,125,000 | 134 | 959 | -0.303202667 | |
| 22 | 10,050,000 | 10,200,000 | 135 | 1151 | -0.122559903 | STAC |
| 22 | 10,125,000 | 10,275,000 | 136 | 1001 | 0.425067682 | STAC |
| 22 | 10,200,000 | 10,350,000 | 137 | 1111 | -0.669651779 | STAC |
| 22 | 10,275,000 | 10,425,000 | 138 | 654 | -2.456488451 | LRRFIP2 |
| 22 | 10,350,000 | 10,500,000 | 139 | 300 | -0.153396903 | LRRFIP2,MLH1 |
| 22 | 10,425,000 | 10,575,000 | 140 | 339 | 0.144084571 | LRRFIP2,MLH1 |
| 22 | 10,500,000 | 10,650,000 | 141 | 480 | -0.246256342 | EPM2AIP1,MLH1 |
| 22 | 10,575,000 | 10,725,000 | 142 | 529 | -0.493735534 | EPM2AIP1,MLH1,TRANK1 |
| 22 | 10,650,000 | 10,800,000 | 143 | 526 | 0.623473932 | DCLK3,TRANK1 |
| 22 | 10,725,000 | 10,875,000 | 144 | 403 | 0.990257941 | DCLK3,GOLGA4 |
| 22 | 10,800,000 | 10,950,000 | 145 | 216 | 0.801713671 | GOLGA4,ITGA9 |
| 22 | 10,875,000 | 11,025,000 | 146 | 532 | 0.506140275 | GOLGA4,ITGA9 |
| 22 | 10,950,000 | 11,100,000 | 147 | 836 | 0.858965642 | ITGA9 |
| 22 | 11,025,000 | 11,175,000 | 148 | 712 | 1.035571858 | ITGA9,ENSBTAG00000047965 |
| 22 | 11,100,000 | 11,250,000 | 149 | 773 | 0.759516876 | ITGA9,ENSBTAG00000047965 |
| 22 | 11,175,000 | 11,325,000 | 150 | 849 | 0.522265295 | ITGA9 |
| 22 | 11,250,000 | 11,400,000 | 151 | 634 | 0.33752389 | CTDSPL,ITGA9 |
| 22 | 11,325,000 | 11,475,000 | 152 | 731 | -0.038703408 | CTDSPL |
| 22 | 11,400,000 | 11,550,000 | 153 | 1179 | 0.368861942 | CTDSPL,DLEC1,PLCD1,VILL |
| 22 | 11,475,000 | 11,625,000 | 154 | 1138 | 0.733315417 | ACAA1,DLEC1,PLCD1,VILL |
| 22 | 11,550,000 | 11,700,000 | 155 | 821 | 0.404838342 | ACAA1,DLEC1,MYD88,OXSR1 |
| 22 | 11,625,000 | 11,775,000 | 156 | 771 | 0.208616483 | ACAA1,MYD88,OXSR1,SLC22A13 |
| 22 | 11,700,000 | 11,850,000 | 157 | 813 | 0.687889272 | OXSR1,SLC22A13,SLC22A14,XYLB |
| 22 | 11,775,000 | 11,925,000 | 158 | 981 | 0.761704613 | ACVR2B,EXOGL,SLC22A14,XYLB |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 11,850,000 | 12,000,000 | 159 | 1139 | -0.879602302 | ACVR2B,EXOG |
| 22 | 11,925,000 | 12,075,000 | 160 | 1187 | -0.939082917 | EXOG,SCN5A |
| 22 | 12,000,000 | 12,150,000 | 161 | 1131 | -0.034163104 | SCN10A,SCN5A |
| 22 | 12,075,000 | 12,225,000 | 162 | 1023 | 0.426974504 | SCN10A,SCN5A |
| 22 | 12,150,000 | 12,300,000 | 163 | 788 | 0.827572375 | SCN10A,SCN11A |
| 22 | 12,225,000 | 12,375,000 | 164 | 781 | 1.36632394 | SCN10A,SCN11A |
| 22 | 12,300,000 | 12,450,000 | 165 | 741 | 1.290723681 | SCN11A,WDR48 |
| 22 | 12,375,000 | 12,525,000 | 166 | 445 | 0.890266061 | CSRNP1,GORASP1,TTC21A,WDR48 |
| 22 | 12,450,000 | 12,600,000 | 167 | 411 | 0.961197197 | CMYA1,CSRNP1,GORASP1,TTC21A,WDR48 |
| 22 | 12,525,000 | 12,675,000 | 168 | 493 | 0.349611082 | CMYA1,CSRNP1,CX3CR1 |
| 22 | 12,600,000 | 12,750,000 | 169 | 557 | 0.622658536 | CCR8,CX3CR1,RPSA,SLC25A38,ENSBTAG00000009760 ,ENSBTAG00000015493 |
| 22 | 12,675,000 | 12,825,000 | 170 | 519 | 0.261830231 | CCR8,MOBP,RPSA,SLC25A38,ENSBTAG00000009760,E NSBTAG00000015493 |
| 22 | 12,750,000 | 12,900,000 | 171 | 662 | -1.643145271 | MOBP |
| 22 | 12,825,000 | 12,975,000 | 172 | 984 | -0.892880103 | |
| 22 | 12,900,000 | 13,050,000 | 173 | 842 | -0.519265556 | |
| 22 | 12,975,000 | 13,125,000 | 174 | 759 | -0.978061173 | MYRIP |
| 22 | 13,050,000 | 13,200,000 | 175 | 674 | -0.934357216 | MYRIP |
| 22 | 13,125,000 | 13,275,000 | 176 | 342 | -0.180247948 | EIF1B,ENTPD3,MYRIP |
| 22 | 13,200,000 | 13,350,000 | 177 | 284 | 0.606225222 | EIF1B,ENTPD3,RPL14,ENSBTAG00000018057 |
| 22 | 13,275,000 | 13,425,000 | 178 | 319 | 0.920088953 | ENTPD3,RPL14,ENSBTAG00000018057 |
| 22 | 13,350,000 | 13,500,000 | 179 | 363 | 0.565871966 | ENSBTAG00000018057 |
| 22 | 13,425,000 | 13,575,000 | 180 | 705 | 0.491115407 | |
| 22 | 13,500,000 | 13,650,000 | 181 | 928 | 0.841857141 | |
| 22 | 13,575,000 | 13,725,000 | 182 | 636 | 1.01124485 | |
| 22 | 13,650,000 | 13,800,000 | 183 | 566 | 1.149069105 | |
| 22 | 13,725,000 | 13,875,000 | 184 | 527 | 1.13912997 | CTNNB1 |
| 22 | 13,800,000 | 13,950,000 | 185 | 352 | 0.376246704 | CTNNB1 |
| 22 | 13,875,000 | 14,025,000 | 186 | 779 | 0.007352789 | CTNNB1 |
| 22 | 13,950,000 | 14,100,000 | 187 | 1266 | 0.734322351 | |
| 22 | 14,025,000 | 14,175,000 | 188 | 1225 | 1.002557609 | |
| 22 | 14,100,000 | 14,250,000 | 189 | 891 | -0.533907632 | |
| 22 | 14,175,000 | 14,325,000 | 190 | 970 | -1.344134669 | |
| 22 | 14,250,000 | 14,400,000 | 191 | 988 | -0.519544933 | |
| 22 | 14,325,000 | 14,475,000 | 192 | 548 | -0.458446577 | ABHD5 |
| 22 | 14,400,000 | 14,550,000 | 193 | 579 | 0.625829684 | ABHD5 |
| 22 | 14,475,000 | 14,625,000 | 194 | 629 | 0.617309214 | ABHD5 |
| 22 | 14,550,000 | 14,700,000 | 195 | 536 | 0.551143109 | |
| 22 | 14,625,000 | 14,775,000 | 196 | 608 | 0.917427833 | |
| 22 | 14,700,000 | 14,850,000 | 197 | 688 | 0.609301143 | |
| 22 | 14,775,000 | 14,925,000 | 198 | 636 | 0.237661595 | |
| 22 | 14,850,000 | 15,000,000 | 199 | 533 | -0.139109282 | |
| 22 | 14,925,000 | 15,075,000 | 200 | 809 | 0.49667668 | |
| 22 | 15,000,000 | 15,150,000 | 201 | 833 | 0.509148096 | TRAK1 |
| 22 | 15,075,000 | 15,225,000 | 202 | 648 | 0.236100547 | CCK,TRAK1,ENSBTAG00000047883 |
| 22 | 15,150,000 | 15,300,000 | 203 | 657 | 0.734515315 | CCK,LYZL4,TRAK1,VIPR1,ENSBTAG00000047883 |
| 22 | 15,225,000 | 15,375,000 | 204 | 479 | 0.40755399 | LYZL4,NKTR,SEC22C,VIPR1 |
| 22 | 15,300,000 | 15,450,000 | 205 | 334 | 0.098488562 | KBTBD5,NKTR,SEC22C,VIPR1,ZBTB47 |
| 22 | 15,375,000 | 15,525,000 | 206 | 346 | 0.348208747 | CCDC13,HHATL,HIGD1D,KBTBD5,NKTR,ZBTB47 |
| 22 | 15,450,000 | 15,600,000 | 207 | 526 | 0.535634111 | CCBP2,CCDC13,CYP8B1,HHATL,HIGD1D,KBTBD5 |
| 22 | 15,525,000 | 15,675,000 | 208 | 695 | 0.685154738 | CCBP2,CYP8B1 |
| 22 | 15,600,000 | 15,750,000 | 209 | 626 | 0.69862714 | POMGNT2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 15,675,000 | 15,825,000 | 210 | 455 | 0.289243472 | POMGNT2 |
| 22 | 15,750,000 | 15,900,000 | 211 | 577 | 0.21048656 | SNRK,ENSBTAG00000008244 |
| 22 | 15,825,000 | 15,975,000 | 212 | 585 | 0.611290396 | ANO10,SNRK,ENSBTAG00000008244 |
| 22 | 15,900,000 | 16,050,000 | 213 | 463 | 0.852639842 | ANO10,SNRK |
| 22 | 15,975,000 | 16,125,000 | 214 | 461 | 0.462774599 | ANO10 |
| 22 | 16,050,000 | 16,200,000 | 215 | 329 | 0.274491665 | ANO10 |
| 22 | 16,125,000 | 16,275,000 | 216 | 360 | 1.236024711 | ANO10,TOPAZ1 |
| 22 | 16,200,000 | 16,350,000 | 217 | 484 | -0.278179159 | TCAIM,TOPAZ1 |
| 22 | 16,275,000 | 16,425,000 | 218 | 805 | -0.262996622 | TCAIM,TOPAZ1,ZNF445,ZNF852,ENSBTAG00000030533 |
| 22 | 16,350,000 | 16,500,000 | 219 | 771 | -0.033572967 | ZNF197,ZNF35,ZNF445,ZNF852,ENSBTAG00000030533 |
| 22 | 16,425,000 | 16,575,000 | 220 | 643 | 0.099414236 | KIAA1143,KIF15,ZNF197,ZNF35,ZNF502,ZNF852 |
| 22 | 16,500,000 | 16,650,000 | 221 | 1155 | 0.623662055 | KIAA1143,KIF15,ZNF35,ZNF502,ENSBTAG00000047611 |
| 22 | 16,575,000 | 16,725,000 | 222 | 1325 | 0.794669381 | IRAK2,KIF15,ENSBTAG00000019479,ENSBTAG00000047611 |
| 22 | 16,650,000 | 16,800,000 | 223 | 770 | 0.873338031 | C22H3ORF10,FANCD2,FANCD2OS,IRAK2,VHL,ENSBTAG00000019479 |
| 22 | 16,725,000 | 16,875,000 | 224 | 328 | 0.190662931 | C22H3ORF10,CRELD1,EMC3,FANCD2,FANCD2OS,IL17RC,IRAK2,PRRT3,VHL |
| 22 | 16,800,000 | 16,950,000 | 225 | 326 | -0.292082872 | CIDEC,CRELD1,EMC3,FANCD2,IL17RC,IL17RE,JAGN1,PRRT3,RPUSD3,ENSBTAG00000007966 |
| 22 | 16,875,000 | 17,025,000 | 226 | 292 | -0.624367251 | ARPC4,BRPF1,CAMK1,CIDEC,IL17RC,IL17RE,JAGN1,OGG1,RPUSD3,TADA3,ENSBTAG00000007966 |
| 22 | 16,950,000 | 17,100,000 | 227 | 260 | -0.736699836 | ARPC4,BRPF1,CAMK1,CPNE9,MTMR14,OGG1,TADA3,ENSBTAG00000007966 |
| 22 | 17,025,000 | 17,175,000 | 228 | 243 | -1.050763333 | CPNE9,LHFPL4,MTMR14 |
| 22 | 17,100,000 | 17,250,000 | 229 | 179 | -1.263704564 | LHFPL4,SETD5 |
| 22 | 17,175,000 | 17,325,000 | 230 | 137 | -1.097193053 | SETD5,THUMPD3 |
| 22 | 17,250,000 | 17,400,000 | 231 | 193 | -0.018238882 | SRGAP3,THUMPD3 |
| 22 | 17,325,000 | 17,475,000 | 232 | 275 | 0.240513402 | SRGAP3 |
| 22 | 17,400,000 | 17,550,000 | 233 | 423 | 0.236502415 | SRGAP3 |
| 22 | 17,475,000 | 17,625,000 | 234 | 524 | 0.08224246 | SRGAP3 |
| 22 | 17,550,000 | 17,700,000 | 235 | 420 | -0.087085059 | RAD18,SRGAP3 |
| 22 | 17,625,000 | 17,775,000 | 236 | 360 | 0.175264143 | RAD18 |
| 22 | 17,700,000 | 17,850,000 | 237 | 475 | -0.57990517 | CAV3,OXTR,RAD18 |
| 22 | 17,775,000 | 17,925,000 | 238 | 616 | -0.433499645 | CAV3,OXTR,SSUH2 |
| 22 | 17,850,000 | 18,000,000 | 239 | 731 | 0.288885441 | LMCD1,SSUH2 |
| 22 | 17,925,000 | 18,075,000 | 240 | 706 | 0.739799289 | LMCD1 |
| 22 | 18,000,000 | 18,150,000 | 241 | 615 | 0.61917064 | LMCD1 |
| 22 | 18,075,000 | 18,225,000 | 242 | 789 | 0.421348002 | |
| 22 | 18,150,000 | 18,300,000 | 243 | 947 | -0.902992512 | |
| 22 | 18,225,000 | 18,375,000 | 244 | 878 | -2.26414219 | |
| 22 | 18,300,000 | 18,450,000 | 245 | 949 | -1.286579569 | |
| 22 | 18,375,000 | 18,525,000 | 246 | 1092 | -0.19337976 | |
| 22 | 18,450,000 | 18,600,000 | 247 | 1145 | 0.483287077 | |
| 22 | 18,525,000 | 18,675,000 | 248 | 861 | 0.365578553 | |
| 22 | 18,600,000 | 18,750,000 | 249 | 447 | -0.490899462 | GRM7 |
| 22 | 18,675,000 | 18,825,000 | 250 | 776 | -0.328954764 | GRM7 |
| 22 | 18,750,000 | 18,900,000 | 251 | 1387 | 0.095396784 | GRM7 |
| 22 | 18,825,000 | 18,975,000 | 252 | 1689 | 0.247463534 | GRM7 |
| 22 | 18,900,000 | 19,050,000 | 253 | 1690 | 0.18846065 | GRM7 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 22 | 18,975,000 | 19,125,000 | 254 | 1390 | 0.462842708 | GRM7 |
| 22 | 19,050,000 | 19,200,000 | 255 | 1073 | 0.43451593 | GRM7 |
| 22 | 19,125,000 | 19,275,000 | 256 | 999 | 0.300572303 | GRM7 |
| 22 | 19,200,000 | 19,350,000 | 257 | 1416 | 0.361527093 | GRM7 |
| 22 | 19,275,000 | 19,425,000 | 258 | 1568 | 0.482053136 | GRM7 |
| 22 | 19,350,000 | 19,500,000 | 259 | 1404 | 1.169229259 | GRM7 |
| 22 | 19,425,000 | 19,575,000 | 260 | 1486 | 1.172153434 | GRM7 |
| 22 | 19,500,000 | 19,650,000 | 261 | 1431 | 0.162488965 | GRM7 |
| 22 | 19,575,000 | 19,725,000 | 262 | 1319 | -0.616199987 | GRM7 |
| 22 | 19,650,000 | 19,800,000 | 263 | 1267 | 0.119691874 | |
| 22 | 19,725,000 | 19,875,000 | 264 | 1372 | -1.842539284 | |
| 22 | 19,800,000 | 19,950,000 | 265 | 1617 | -3.368809543 | |
| 22 | 19,875,000 | 20,025,000 | 266 | 1434 | -2.116691431 | |
| 22 | 19,950,000 | 20,100,000 | 267 | 1149 | -0.01847365 | |
| 22 | 20,025,000 | 20,175,000 | 268 | 1003 | -0.675455663 | |
| 22 | 20,100,000 | 20,250,000 | 269 | 864 | -1.02647194 | |
| 22 | 20,175,000 | 20,325,000 | 270 | 854 | -0.277530921 | |
| 22 | 20,250,000 | 20,400,000 | 271 | 871 | -0.142956866 | |
| 22 | 20,325,000 | 20,475,000 | 272 | 1010 | -0.625223924 | |
| 22 | 20,400,000 | 20,550,000 | 273 | 1534 | -0.799786503 | |
| 22 | 20,475,000 | 20,625,000 | 274 | 1633 | -1.191452244 | |
| 22 | 20,550,000 | 20,700,000 | 275 | 975 | -1.483912756 | |
| 22 | 20,625,000 | 20,775,000 | 276 | 988 | 0.260691954 | |
| 22 | 20,700,000 | 20,850,000 | 277 | 1233 | -0.124374715 | |
| 22 | 20,775,000 | 20,925,000 | 278 | 1059 | -1.186977426 | |
| 22 | 20,850,000 | 21,000,000 | 279 | 795 | -0.445577892 | |
| 22 | 20,925,000 | 21,075,000 | 280 | 759 | 0.921301701 | |
| 22 | 21,000,000 | 21,150,000 | 281 | 1207 | 0.912639686 | |
| 22 | 21,075,000 | 21,225,000 | 282 | 1170 | 0.843408639 | |
| 22 | 21,150,000 | 21,300,000 | 283 | 742 | 0.482121475 | EDEM1 |
| 22 | 21,225,000 | 21,375,000 | 284 | 750 | 0.107116991 | ARL8B,EDEM1 |
| 22 | 21,300,000 | 21,450,000 | 285 | 738 | 0.31348463 | ARL8B |
| 22 | 21,375,000 | 21,525,000 | 286 | 644 | -0.219177593 | BHLHE40 |
| 22 | 21,450,000 | 21,600,000 | 287 | 636 | -1.172714062 | BHLHE40 |
| 22 | 21,525,000 | 21,675,000 | 288 | 684 | -0.33298332 | ITPR1 |
| 22 | 21,600,000 | 21,750,000 | 289 | 739 | -1.39106638 | ITPR1 |
| 22 | 21,675,000 | 21,825,000 | 290 | 650 | -2.172028777 | ITPR1 |
| 22 | 21,750,000 | 21,900,000 | 291 | 648 | -0.31311686 | ITPR1 |
| 22 | 21,825,000 | 21,975,000 | 292 | 737 | 0.573925096 | ITPR1 |
| 22 | 21,900,000 | 22,050,000 | 293 | 908 | 0.504883372 | SUMF1 |
| 22 | 21,975,000 | 22,125,000 | 294 | 1054 | 0.513516724 | SETMAR,SHFM1,SUMF1 |
| 22 | 22,050,000 | 22,200,000 | 295 | 1165 | -0.003855451 | SETMAR,SHFM1,SUMF1 |
| 22 | 22,125,000 | 22,275,000 | 296 | 1021 | -0.406444454 | |
| 22 | 22,200,000 | 22,350,000 | 297 | 753 | -0.94537583 | |
| 22 | 22,275,000 | 22,425,000 | 298 | 1023 | 0.342396836 | |
| 22 | 22,350,000 | 22,500,000 | 299 | 1172 | 0.451916203 | |
| 22 | 22,425,000 | 22,575,000 | 300 | 1065 | -1.451715899 | |
| 22 | 22,500,000 | 22,650,000 | 301 | 1145 | -0.756893358 | LRRN1 |
| 22 | 22,575,000 | 22,725,000 | 302 | 1243 | -0.028127197 | LRRN1 |
| 22 | 22,650,000 | 22,800,000 | 303 | 1167 | -0.476159575 | |
| 22 | 22,725,000 | 22,875,000 | 304 | 1174 | 0.097303428 | |
| 22 | 22,800,000 | 22,950,000 | 305 | 1502 | 0.350346468 | |
| 22 | 22,875,000 | 23,025,000 | 306 | 1710 | 0.909472526 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|------------------------|
| 22 | 22,950,000 | 23,100,000 | 307 | 1719 | 0.508863093 | |
| 22 | 23,025,000 | 23,175,000 | 308 | 1620 | 0.010525725 | |
| 22 | 23,100,000 | 23,250,000 | 309 | 1751 | -0.089610923 | CRBN |
| 22 | 23,175,000 | 23,325,000 | 310 | 1776 | -0.549475534 | CRBN,IL5RA,TRNT1 |
| 22 | 23,250,000 | 23,400,000 | 311 | 1677 | 0.160293788 | CNTN4,CRBN,IL5RA,TRNT1 |
| 22 | 23,325,000 | 23,475,000 | 312 | 1546 | 0.722342629 | CNTN4,IL5RA |
| 22 | 23,400,000 | 23,550,000 | 313 | 1486 | 0.412378811 | CNTN4 |
| 22 | 23,475,000 | 23,625,000 | 314 | 1704 | 0.334198997 | CNTN4 |
| 22 | 23,550,000 | 23,700,000 | 315 | 1634 | 0.083226951 | CNTN4 |
| 22 | 23,625,000 | 23,775,000 | 316 | 1651 | 0.16541866 | |
| 22 | 23,700,000 | 23,850,000 | 317 | 1713 | 0.814053714 | |
| 22 | 23,775,000 | 23,925,000 | 318 | 1540 | 0.59515237 | |
| 22 | 23,850,000 | 24,000,000 | 319 | 1037 | -0.217054445 | |
| 22 | 23,925,000 | 24,075,000 | 320 | 826 | -0.935073899 | |
| 22 | 24,000,000 | 24,150,000 | 321 | 964 | 0.021503616 | |
| 22 | 24,075,000 | 24,225,000 | 322 | 809 | -0.043134497 | |
| 22 | 24,150,000 | 24,300,000 | 323 | 677 | -0.555770577 | |
| 22 | 24,225,000 | 24,375,000 | 324 | 606 | 0.417970139 | |
| 22 | 24,300,000 | 24,450,000 | 325 | 438 | 0.503910448 | |
| 22 | 24,375,000 | 24,525,000 | 326 | 596 | -0.492780021 | |
| 22 | 24,450,000 | 24,600,000 | 327 | 993 | -0.17810145 | |
| 22 | 24,525,000 | 24,675,000 | 328 | 866 | -0.446770287 | |
| 22 | 24,600,000 | 24,750,000 | 329 | 824 | -0.31941047 | |
| 22 | 24,675,000 | 24,825,000 | 330 | 955 | 1.013123617 | |
| 22 | 24,750,000 | 24,900,000 | 331 | 790 | 0.566076865 | |
| 22 | 24,825,000 | 24,975,000 | 332 | 1020 | -1.500845171 | |
| 22 | 24,900,000 | 25,050,000 | 333 | 1108 | -1.332099514 | |
| 22 | 24,975,000 | 25,125,000 | 334 | 690 | -0.184404258 | CNTN6 |
| 22 | 25,050,000 | 25,200,000 | 335 | 599 | -0.314390327 | CNTN6 |
| 22 | 25,125,000 | 25,275,000 | 336 | 603 | -0.04390124 | CNTN6 |
| 22 | 25,200,000 | 25,350,000 | 337 | 1039 | -1.838417832 | CNTN6 |
| 22 | 25,275,000 | 25,425,000 | 338 | 1537 | -1.507023316 | |
| 22 | 25,350,000 | 25,500,000 | 339 | 1605 | 0.19696183 | |
| 22 | 25,425,000 | 25,575,000 | 340 | 1173 | 0.732821798 | |
| 22 | 25,500,000 | 25,650,000 | 341 | 747 | 0.776127127 | |
| 22 | 25,575,000 | 25,725,000 | 342 | 827 | 0.960017512 | |
| 22 | 25,650,000 | 25,800,000 | 343 | 663 | 0.926582831 | |
| 22 | 25,725,000 | 25,875,000 | 344 | 511 | 0.801893914 | |
| 22 | 25,800,000 | 25,950,000 | 345 | 655 | 0.424740898 | |
| 22 | 25,875,000 | 26,025,000 | 346 | 908 | 0.393038281 | |
| 22 | 25,950,000 | 26,100,000 | 347 | 1141 | 0.649297061 | |
| 22 | 26,025,000 | 26,175,000 | 348 | 1099 | 0.383154703 | CHL1 |
| 22 | 26,100,000 | 26,250,000 | 349 | 753 | 0.669235737 | CHL1 |
| 22 | 26,175,000 | 26,325,000 | 350 | 925 | 0.793764275 | CHL1 |
| 22 | 26,250,000 | 26,400,000 | 351 | 1063 | 0.472441794 | CHL1 |
| 22 | 26,325,000 | 26,475,000 | 352 | 796 | 0.589930575 | |
| 22 | 26,400,000 | 26,550,000 | 353 | 480 | 0.565667025 | |
| 22 | 26,475,000 | 26,625,000 | 354 | 292 | 0.402815307 | |
| 22 | 26,550,000 | 26,700,000 | 355 | 373 | -0.065378488 | |
| 22 | 26,625,000 | 26,775,000 | 356 | 804 | 0.724833752 | |
| 22 | 26,700,000 | 26,850,000 | 357 | 1209 | 0.764931042 | |
| 22 | 26,775,000 | 26,925,000 | 358 | 897 | 0.533289263 | |
| 22 | 26,850,000 | 27,000,000 | 359 | 556 | 0.607658548 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------|
| 22 | 26,925,000 | 27,075,000 | 360 | 662 | 0.276402966 | |
| 22 | 27,000,000 | 27,150,000 | 361 | 732 | -1.171700628 | |
| 22 | 27,075,000 | 27,225,000 | 362 | 640 | -2.221127396 | |
| 22 | 27,150,000 | 27,300,000 | 363 | 624 | -1.009646773 | CNTN3 |
| 22 | 27,225,000 | 27,375,000 | 364 | 1146 | 0.756736146 | CNTN3 |
| 22 | 27,300,000 | 27,450,000 | 365 | 1559 | 0.984936498 | CNTN3 |
| 22 | 27,375,000 | 27,525,000 | 366 | 1336 | 0.330414405 | CNTN3 |
| 22 | 27,450,000 | 27,600,000 | 367 | 1337 | 0.208498217 | CNTN3 |
| 22 | 27,525,000 | 27,675,000 | 368 | 1468 | 0.993921235 | CNTN3 |
| 22 | 27,600,000 | 27,750,000 | 369 | 1156 | 1.173971104 | |
| 22 | 27,675,000 | 27,825,000 | 370 | 864 | 0.131208309 | |
| 22 | 27,750,000 | 27,900,000 | 371 | 1222 | 0.498568029 | |
| 22 | 27,825,000 | 27,975,000 | 372 | 1341 | 0.523046625 | |
| 22 | 27,900,000 | 28,050,000 | 373 | 1091 | -0.510157701 | |
| 22 | 27,975,000 | 28,125,000 | 374 | 948 | -1.413581438 | |
| 22 | 28,050,000 | 28,200,000 | 375 | 912 | -0.970464035 | |
| 22 | 28,125,000 | 28,275,000 | 376 | 965 | 1.22731022 | PDZRN3 |
| 22 | 28,200,000 | 28,350,000 | 377 | 1081 | 0.012193118 | PDZRN3 |
| 22 | 28,275,000 | 28,425,000 | 378 | 957 | -0.557267176 | PDZRN3 |
| 22 | 28,350,000 | 28,500,000 | 379 | 603 | 1.00552182 | PDZRN3 |
| 22 | 28,425,000 | 28,575,000 | 380 | 619 | 1.06953653 | PDZRN3 |
| 22 | 28,500,000 | 28,650,000 | 381 | 800 | 0.828313847 | PDZRN3 |
| 22 | 28,575,000 | 28,725,000 | 382 | 837 | 1.101647136 | |
| 22 | 28,650,000 | 28,800,000 | 383 | 753 | 1.40765706 | PPP4R2 |
| 22 | 28,725,000 | 28,875,000 | 384 | 866 | 1.204066373 | GXYLT2,PPP4R2 |
| 22 | 28,800,000 | 28,950,000 | 385 | 1044 | 1.202815283 | GXYLT2,PPP4R2 |
| 22 | 28,875,000 | 29,025,000 | 386 | 887 | 0.944010007 | GXYLT2,SHQ1 |
| 22 | 28,950,000 | 29,100,000 | 387 | 660 | 0.53265455 | SHQ1 |
| 22 | 29,025,000 | 29,175,000 | 388 | 655 | 0.663706338 | SHQ1 |
| 22 | 29,100,000 | 29,250,000 | 389 | 636 | 0.780067245 | |
| 22 | 29,175,000 | 29,325,000 | 390 | 521 | 0.794361293 | RYBP |
| 22 | 29,250,000 | 29,400,000 | 391 | 487 | 0.229082626 | RYBP |
| 22 | 29,325,000 | 29,475,000 | 392 | 656 | -0.624777925 | RYBP |
| 22 | 29,400,000 | 29,550,000 | 393 | 807 | -0.086699525 | |
| 22 | 29,475,000 | 29,625,000 | 394 | 592 | 0.576165458 | |
| 22 | 29,550,000 | 29,700,000 | 395 | 380 | 0.523351838 | |
| 22 | 29,625,000 | 29,775,000 | 396 | 326 | 0.323383081 | |
| 22 | 29,700,000 | 29,850,000 | 397 | 618 | -0.723564896 | |
| 22 | 29,775,000 | 29,925,000 | 398 | 832 | -0.104198894 | |
| 22 | 29,850,000 | 30,000,000 | 399 | 513 | 0.627069092 | |
| 22 | 29,925,000 | 30,075,000 | 400 | 402 | -0.294609082 | EIF4E3,PROK2 |
| 22 | 30,000,000 | 30,150,000 | 401 | 544 | -0.15293489 | EIF4E3,PROK2 |
| 22 | 30,075,000 | 30,225,000 | 402 | 539 | 0.191140803 | EIF4E3 |
| 22 | 30,150,000 | 30,300,000 | 403 | 503 | 0.159295298 | |
| 22 | 30,225,000 | 30,375,000 | 404 | 466 | 0.043983079 | |
| 22 | 30,300,000 | 30,450,000 | 405 | 332 | 0.36608904 | FOXP1 |
| 22 | 30,375,000 | 30,525,000 | 406 | 276 | 0.385649176 | FOXP1 |
| 22 | 30,450,000 | 30,600,000 | 407 | 341 | 0.678699202 | FOXP1 |
| 22 | 30,525,000 | 30,675,000 | 408 | 381 | 0.585478873 | FOXP1 |
| 22 | 30,600,000 | 30,750,000 | 409 | 390 | -3.30158126 | FOXP1 |
| 22 | 30,675,000 | 30,825,000 | 410 | 411 | -3.131567394 | FOXP1 |
| 22 | 30,750,000 | 30,900,000 | 411 | 376 | 0.528523945 | FOXP1 |
| 22 | 30,825,000 | 30,975,000 | 412 | 344 | 0.297346497 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------|
| 22 | 30,900,000 | 31,050,000 | 413 | 358 | -0.615197365 | |
| 22 | 30,975,000 | 31,125,000 | 414 | 636 | 0.401259537 | |
| 22 | 31,050,000 | 31,200,000 | 415 | 775 | 0.971729822 | |
| 22 | 31,125,000 | 31,275,000 | 416 | 651 | -0.19767207 | |
| 22 | 31,200,000 | 31,350,000 | 417 | 812 | 0.035634375 | |
| 22 | 31,275,000 | 31,425,000 | 418 | 769 | 0.415667853 | |
| 22 | 31,350,000 | 31,500,000 | 419 | 585 | -0.731932519 | |
| 22 | 31,425,000 | 31,575,000 | 420 | 500 | -0.490209664 | ENSBTAG00000048050 |
| 22 | 31,500,000 | 31,650,000 | 421 | 472 | 0.79036295 | ENSBTAG00000048050 |
| 22 | 31,575,000 | 31,725,000 | 422 | 747 | 0.085352281 | |
| 22 | 31,650,000 | 31,800,000 | 423 | 717 | -0.579287694 | MITF |
| 22 | 31,725,000 | 31,875,000 | 424 | 348 | -2.104619461 | MITF |
| 22 | 31,800,000 | 31,950,000 | 425 | 297 | -2.965882268 | |
| 22 | 31,875,000 | 32,025,000 | 426 | 593 | -1.868515306 | |
| 22 | 31,950,000 | 32,100,000 | 427 | 735 | -0.960662873 | |
| 22 | 32,025,000 | 32,175,000 | 428 | 521 | 0.15420404 | |
| 22 | 32,100,000 | 32,250,000 | 429 | 719 | 0.322365429 | |
| 22 | 32,175,000 | 32,325,000 | 430 | 1111 | -0.359246784 | |
| 22 | 32,250,000 | 32,400,000 | 431 | 774 | -0.528081458 | FRMD4B |
| 22 | 32,325,000 | 32,475,000 | 432 | 341 | 0.81220248 | FRMD4B |
| 22 | 32,400,000 | 32,550,000 | 433 | 409 | 0.717217623 | FRMD4B,LMOD3 |
| 22 | 32,475,000 | 32,625,000 | 434 | 384 | 0.723280947 | ARL6IP5,FRMD4B,LMOD3,TMF1,UBA3 |
| 22 | 32,550,000 | 32,700,000 | 435 | 313 | -0.617453788 | ARL6IP5,EOGT,LMOD3,TMF1,UBA3 |
| 22 | 32,625,000 | 32,775,000 | 436 | 475 | -0.429696832 | EOGT,FAM19A4,TMF1 |
| 22 | 32,700,000 | 32,850,000 | 437 | 841 | -0.546153497 | FAM19A4 |
| 22 | 32,775,000 | 32,925,000 | 438 | 1087 | -0.127140946 | FAM19A4 |
| 22 | 32,850,000 | 33,000,000 | 439 | 854 | 0.495697507 | FAM19A4 |
| 22 | 32,925,000 | 33,075,000 | 440 | 843 | -0.180603498 | FAM19A1 |
| 22 | 33,000,000 | 33,150,000 | 441 | 1067 | -1.369450384 | FAM19A1 |
| 22 | 33,075,000 | 33,225,000 | 442 | 1181 | -0.573787663 | FAM19A1 |
| 22 | 33,150,000 | 33,300,000 | 443 | 1329 | 0.626013502 | FAM19A1 |
| 22 | 33,225,000 | 33,375,000 | 444 | 1556 | 0.725824542 | FAM19A1 |
| 22 | 33,300,000 | 33,450,000 | 445 | 1356 | -0.142552801 | FAM19A1 |
| 22 | 33,375,000 | 33,525,000 | 446 | 1019 | -1.327887571 | FAM19A1 |
| 22 | 33,450,000 | 33,600,000 | 447 | 830 | 0.068714151 | FAM19A1 |
| 22 | 33,525,000 | 33,675,000 | 448 | 821 | 0.455985093 | FAM19A1 |
| 22 | 33,600,000 | 33,750,000 | 449 | 769 | 0.309121958 | |
| 22 | 33,675,000 | 33,825,000 | 450 | 907 | 0.590247609 | |
| 22 | 33,750,000 | 33,900,000 | 451 | 1214 | 0.565619015 | |
| 22 | 33,825,000 | 33,975,000 | 452 | 757 | 0.685206999 | |
| 22 | 33,900,000 | 34,050,000 | 453 | 335 | 1.18018527 | SUCLG2 |
| 22 | 33,975,000 | 34,125,000 | 454 | 360 | 1.213068728 | SUCLG2 |
| 22 | 34,050,000 | 34,200,000 | 455 | 407 | 1.235908222 | SUCLG2 |
| 22 | 34,125,000 | 34,275,000 | 456 | 692 | 1.37654602 | SUCLG2 |
| 22 | 34,200,000 | 34,350,000 | 457 | 652 | 1.379217522 | SUCLG2 |
| 22 | 34,275,000 | 34,425,000 | 458 | 405 | 1.225440012 | |
| 22 | 34,350,000 | 34,500,000 | 459 | 573 | 1.155004787 | |
| 22 | 34,425,000 | 34,575,000 | 460 | 613 | 0.975823866 | |
| 22 | 34,500,000 | 34,650,000 | 461 | 739 | 0.774971372 | KBTD8 |
| 22 | 34,575,000 | 34,725,000 | 462 | 718 | 0.862828022 | KBTD8 |
| 22 | 34,650,000 | 34,800,000 | 463 | 444 | 1.09581785 | |
| 22 | 34,725,000 | 34,875,000 | 464 | 453 | 0.744760726 | |
| 22 | 34,800,000 | 34,950,000 | 465 | 761 | -0.513287967 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 34,875,000 | 35,025,000 | 466 | 910 | -1.377797935 | |
| 22 | 34,950,000 | 35,100,000 | 467 | 832 | -0.423079465 | LRIG1,ENSBTAG00000046330,ENSBTAG00000047851 |
| 22 | 35,025,000 | 35,175,000 | 468 | 886 | 0.310318594 | LRIG1,ENSBTAG00000046330,ENSBTAG00000047851 |
| 22 | 35,100,000 | 35,250,000 | 469 | 1016 | 0.169102345 | LRIG1,SLC25A26 |
| 22 | 35,175,000 | 35,325,000 | 470 | 1193 | 0.420440092 | LRIG1,SLC25A26 |
| 22 | 35,250,000 | 35,400,000 | 471 | 1365 | 0.939573004 | ATP5E,SLC25A26 |
| 22 | 35,325,000 | 35,475,000 | 472 | 1259 | 0.904608927 | ATP5E,SLC25A26 |
| 22 | 35,400,000 | 35,550,000 | 473 | 1177 | 0.135200347 | |
| 22 | 35,475,000 | 35,625,000 | 474 | 1423 | 0.630901741 | |
| 22 | 35,550,000 | 35,700,000 | 475 | 1386 | 1.05405125 | |
| 22 | 35,625,000 | 35,775,000 | 476 | 1130 | 0.63284723 | |
| 22 | 35,700,000 | 35,850,000 | 477 | 1220 | 0.62483744 | |
| 22 | 35,775,000 | 35,925,000 | 478 | 1223 | 0.853682067 | |
| 22 | 35,850,000 | 36,000,000 | 479 | 1126 | 1.046924397 | |
| 22 | 35,925,000 | 36,075,000 | 480 | 943 | 0.838556308 | MAGI1 |
| 22 | 36,000,000 | 36,150,000 | 481 | 767 | 0.733176026 | MAGI1 |
| 22 | 36,075,000 | 36,225,000 | 482 | 1062 | 1.174180392 | MAGI1 |
| 22 | 36,150,000 | 36,300,000 | 483 | 1226 | 1.183716741 | |
| 22 | 36,225,000 | 36,375,000 | 484 | 1124 | 0.921173363 | |
| 22 | 36,300,000 | 36,450,000 | 485 | 1077 | 0.654553696 | |
| 22 | 36,375,000 | 36,525,000 | 486 | 957 | 0.72349086 | |
| 22 | 36,450,000 | 36,600,000 | 487 | 832 | 0.88783802 | |
| 22 | 36,525,000 | 36,675,000 | 488 | 718 | 0.946420611 | |
| 22 | 36,600,000 | 36,750,000 | 489 | 593 | 0.609853899 | ENSBTAG00000008534 |
| 22 | 36,675,000 | 36,825,000 | 490 | 606 | -0.052592714 | ENSBTAG00000008534 |
| 22 | 36,750,000 | 36,900,000 | 491 | 548 | -0.717775275 | ADAMTS9 |
| 22 | 36,825,000 | 36,975,000 | 492 | 509 | 0.013694341 | ADAMTS9 |
| 22 | 36,900,000 | 37,050,000 | 493 | 708 | 0.34297648 | ADAMTS9 |
| 22 | 36,975,000 | 37,125,000 | 494 | 896 | 0.202404334 | ADAMTS9 |
| 22 | 37,050,000 | 37,200,000 | 495 | 788 | 0.455932907 | |
| 22 | 37,125,000 | 37,275,000 | 496 | 936 | 0.638517247 | |
| 22 | 37,200,000 | 37,350,000 | 497 | 1067 | 1.200059911 | PRICKLE2 |
| 22 | 37,275,000 | 37,425,000 | 498 | 953 | 1.427737696 | PRICKLE2 |
| 22 | 37,350,000 | 37,500,000 | 499 | 906 | 1.250958666 | PRICKLE2 |
| 22 | 37,425,000 | 37,575,000 | 500 | 818 | 0.703159264 | PRICKLE2,PSMD6 |
| 22 | 37,500,000 | 37,650,000 | 501 | 659 | -0.384906911 | ATXN7,PSMD6 |
| 22 | 37,575,000 | 37,725,000 | 502 | 392 | -1.735895597 | ATXN7 |
| 22 | 37,650,000 | 37,800,000 | 503 | 788 | 0.173194751 | ATXN7,C3orf49,ENSBTAG00000032872 |
| 22 | 37,725,000 | 37,875,000 | 504 | 1166 | -0.200290791 | C3orf49,SNTN,ENSBTAG00000032872 |
| 22 | 37,800,000 | 37,950,000 | 505 | 776 | -0.583543431 | SNTN,SYNPR |
| 22 | 37,875,000 | 38,025,000 | 506 | 432 | 0.754355574 | SNTN,SYNPR |
| 22 | 37,950,000 | 38,100,000 | 507 | 392 | 0.317432795 | SYNPR |
| 22 | 38,025,000 | 38,175,000 | 508 | 414 | 0.503097362 | SYNPR |
| 22 | 38,100,000 | 38,250,000 | 509 | 466 | 0.517880703 | |
| 22 | 38,175,000 | 38,325,000 | 510 | 531 | 0.207113273 | |
| 22 | 38,250,000 | 38,400,000 | 511 | 425 | 0.04384073 | |
| 22 | 38,325,000 | 38,475,000 | 512 | 526 | -2.198598896 | |
| 22 | 38,400,000 | 38,550,000 | 513 | 747 | -1.406594423 | |
| 22 | 38,475,000 | 38,625,000 | 514 | 792 | 0.883309663 | |
| 22 | 38,550,000 | 38,700,000 | 515 | 1023 | 0.409947731 | CADPS |
| 22 | 38,625,000 | 38,775,000 | 516 | 948 | -0.24451659 | CADPS |
| 22 | 38,700,000 | 38,850,000 | 517 | 1136 | 0.320677667 | CADPS |
| 22 | 38,775,000 | 38,925,000 | 518 | 1231 | 0.440120041 | CADPS |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 22 | 38,850,000 | 39,000,000 | 519 | 757 | 0.293497088 | CADPS |
| 22 | 38,925,000 | 39,075,000 | 520 | 550 | 0.388777505 | CADPS,FEZF2 |
| 22 | 39,000,000 | 39,150,000 | 521 | 516 | -0.79666793 | C3orf14,CADPS,FEZF2 |
| 22 | 39,075,000 | 39,225,000 | 522 | 735 | -0.146162387 | C3orf14,PTPRG |
| 22 | 39,150,000 | 39,300,000 | 523 | 1206 | -0.072889855 | PTPRG |
| 22 | 39,225,000 | 39,375,000 | 524 | 1401 | 0.062065088 | PTPRG |
| 22 | 39,300,000 | 39,450,000 | 525 | 1412 | -0.003314548 | PTPRG |
| 22 | 39,375,000 | 39,525,000 | 526 | 1127 | -0.377455334 | PTPRG |
| 22 | 39,450,000 | 39,600,000 | 527 | 643 | 0.560203982 | PTPRG |
| 22 | 39,525,000 | 39,675,000 | 528 | 777 | 0.838895312 | PTPRG |
| 22 | 39,600,000 | 39,750,000 | 529 | 1015 | 0.700011712 | PTPRG |
| 22 | 39,675,000 | 39,825,000 | 530 | 529 | 0.762467992 | PTPRG |
| 22 | 39,750,000 | 39,900,000 | 531 | 33 | -6.579657729 | PTPRG |
| 22 | 39,825,000 | 39,975,000 | 532 | 148 | -0.759921987 | PTPRG |
| 22 | 39,900,000 | 40,050,000 | 533 | 222 | -1.014241052 | PTPRG |
| 22 | 39,975,000 | 40,125,000 | 534 | 367 | -0.320169694 | PTPRG |
| 22 | 40,050,000 | 40,200,000 | 535 | 753 | 0.911153827 | PTPRG |
| 22 | 40,125,000 | 40,275,000 | 536 | 994 | 0.990675819 | PTPRG |
| 22 | 40,200,000 | 40,350,000 | 537 | 920 | 0.738482187 | PTPRG |
| 22 | 40,275,000 | 40,425,000 | 538 | 994 | -0.751264712 | PTPRG |
| 22 | 40,350,000 | 40,500,000 | 539 | 901 | -1.478338678 | PTPRG |
| 22 | 40,425,000 | 40,575,000 | 540 | 656 | -1.39644397 | |
| 22 | 40,500,000 | 40,650,000 | 541 | 899 | -0.801393356 | |
| 22 | 40,575,000 | 40,725,000 | 542 | 1216 | -0.119680945 | |
| 22 | 40,650,000 | 40,800,000 | 543 | 883 | 0.184475654 | |
| 22 | 40,725,000 | 40,875,000 | 544 | 300 | 0.370211748 | |
| 22 | 40,800,000 | 40,950,000 | 545 | 254 | 0.789068653 | |
| 22 | 40,875,000 | 41,025,000 | 546 | 495 | 0.184413225 | |
| 22 | 40,950,000 | 41,100,000 | 547 | 832 | -0.070716656 | |
| 22 | 41,025,000 | 41,175,000 | 548 | 914 | 0.165431775 | |
| 22 | 41,100,000 | 41,250,000 | 549 | 977 | 0.317361477 | |
| 22 | 41,175,000 | 41,325,000 | 550 | 1267 | -1.231827322 | FHIT |
| 22 | 41,250,000 | 41,400,000 | 551 | 1330 | -1.524164862 | FHIT |
| 22 | 41,325,000 | 41,475,000 | 552 | 1213 | -0.603508911 | FHIT,ENSBTAG00000047771 |
| 22 | 41,400,000 | 41,550,000 | 553 | 1179 | -0.753462528 | FHIT,ENSBTAG00000047771 |
| 22 | 41,475,000 | 41,625,000 | 554 | 873 | -0.297817796 | FHIT |
| 22 | 41,550,000 | 41,700,000 | 555 | 648 | -0.438905134 | FHIT |
| 22 | 41,625,000 | 41,775,000 | 556 | 877 | -0.828473583 | FHIT |
| 22 | 41,700,000 | 41,850,000 | 557 | 1137 | -0.231503927 | FHIT |
| 22 | 41,775,000 | 41,925,000 | 558 | 1159 | 0.195317019 | FHIT |
| 22 | 41,850,000 | 42,000,000 | 559 | 1108 | 0.452479552 | FHIT |
| 22 | 41,925,000 | 42,075,000 | 560 | 931 | 0.42980909 | FHIT |
| 22 | 42,000,000 | 42,150,000 | 561 | 698 | -0.029754439 | FHIT |
| 22 | 42,075,000 | 42,225,000 | 562 | 819 | -0.951790349 | FHIT |
| 22 | 42,150,000 | 42,300,000 | 563 | 991 | -0.340716314 | |
| 22 | 42,225,000 | 42,375,000 | 564 | 1204 | -0.013770035 | |
| 22 | 42,300,000 | 42,450,000 | 565 | 984 | 0.067787902 | |
| 22 | 42,375,000 | 42,525,000 | 566 | 1103 | -0.053506796 | |
| 22 | 42,450,000 | 42,600,000 | 567 | 1330 | -0.443083583 | |
| 22 | 42,525,000 | 42,675,000 | 568 | 1198 | -0.111650957 | |
| 22 | 42,600,000 | 42,750,000 | 569 | 1430 | -0.097115105 | |
| 22 | 42,675,000 | 42,825,000 | 570 | 1317 | -0.540179561 | |
| 22 | 42,750,000 | 42,900,000 | 571 | 1082 | -0.932044957 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 22 | 42,825,000 | 42,975,000 | 572 | 827 | -0.951624817 | |
| 22 | 42,900,000 | 43,050,000 | 573 | 628 | -1.922515738 | C3orf67 |
| 22 | 42,975,000 | 43,125,000 | 574 | 744 | -2.876981161 | C3orf67 |
| 22 | 43,050,000 | 43,200,000 | 575 | 1135 | -2.961677718 | C3orf67 |
| 22 | 43,125,000 | 43,275,000 | 576 | 1589 | -1.378845959 | C3orf67,FAM3D |
| 22 | 43,200,000 | 43,350,000 | 577 | 1690 | 0.021705405 | FAM3D,MGC143103 |
| 22 | 43,275,000 | 43,425,000 | 578 | 1184 | -0.071813516 | ACOX2,KCTD6,MGC143103 |
| 22 | 43,350,000 | 43,500,000 | 579 | 763 | -2.45317089 | ACOX2,KCTD6,MGC143103,PDHB,PXK |
| 22 | 43,425,000 | 43,575,000 | 580 | 736 | -2.532016843 | ABHD6,PDHB,PXK,RPP14 |
| 22 | 43,500,000 | 43,650,000 | 581 | 608 | 0.03569842 | ABHD6,DNASE1L3,PXK,RPP14 |
| 22 | 43,575,000 | 43,725,000 | 582 | 1079 | 0.976531822 | ABHD6,DNASE1L3,FLNB |
| 22 | 43,650,000 | 43,800,000 | 583 | 1252 | 0.901181514 | DNASE1L3,FLNB |
| 22 | 43,725,000 | 43,875,000 | 584 | 1036 | -0.045980431 | FLNB,SLMAP |
| 22 | 43,800,000 | 43,950,000 | 585 | 1037 | -0.485154832 | FLNB,SLMAP |
| 22 | 43,875,000 | 44,025,000 | 586 | 771 | 0.252486838 | SLMAP |
| 22 | 43,950,000 | 44,100,000 | 587 | 590 | 0.651501607 | DENND6A,SLMAP |
| 22 | 44,025,000 | 44,175,000 | 588 | 448 | -0.219733339 | ARF4,DENND6A |
| 22 | 44,100,000 | 44,250,000 | 589 | 354 | -0.660765474 | ARF4,DENND6A,PDE12,ENSBTAG00000020802 |
| 22 | 44,175,000 | 44,325,000 | 590 | 391 | -2.262525506 | PDE12,ENSBTAG00000020802 |
| 22 | 44,250,000 | 44,400,000 | 591 | 415 | -2.358191969 | APPL1,DNAH12,ENSBTAG00000020802 |
| 22 | 44,325,000 | 44,475,000 | 592 | 340 | -0.075076791 | APPL1,DNAH12,HESX1,ENSBTAG00000020802 |
| 22 | 44,400,000 | 44,550,000 | 593 | 480 | 0.574870621 | APPL1,HESX1,IL17RD |
| 22 | 44,475,000 | 44,625,000 | 594 | 887 | 0.136832535 | IL17RD |
| 22 | 44,550,000 | 44,700,000 | 595 | 1085 | -0.152834348 | |
| 22 | 44,625,000 | 44,775,000 | 596 | 1222 | -0.318302813 | |
| 22 | 44,700,000 | 44,850,000 | 597 | 1165 | -0.373124847 | ARHGEF3 |
| 22 | 44,775,000 | 44,925,000 | 598 | 852 | -0.138858716 | ARHGEF3,FAM208A |
| 22 | 44,850,000 | 45,000,000 | 599 | 552 | -0.049542553 | ARHGEF3,CCDC66,FAM208A |
| 22 | 44,925,000 | 45,075,000 | 600 | 431 | -0.7867252 | CCDC66,FAM208A |
| 22 | 45,000,000 | 45,150,000 | 601 | 618 | -1.124656329 | ERC2 |
| 22 | 45,075,000 | 45,225,000 | 602 | 576 | -0.99697797 | ERC2 |
| 22 | 45,150,000 | 45,300,000 | 603 | 445 | -0.469456106 | ERC2 |
| 22 | 45,225,000 | 45,375,000 | 604 | 402 | -0.020345772 | ERC2 |
| 22 | 45,300,000 | 45,450,000 | 605 | 464 | 0.138044138 | ERC2 |
| 22 | 45,375,000 | 45,525,000 | 606 | 477 | 0.215006651 | ERC2 |
| 22 | 45,450,000 | 45,600,000 | 607 | 338 | 0.295279292 | ERC2 |
| 22 | 45,525,000 | 45,675,000 | 608 | 334 | 0.479105328 | ERC2 |
| 22 | 45,600,000 | 45,750,000 | 609 | 313 | 0.278655222 | |
| 22 | 45,675,000 | 45,825,000 | 610 | 216 | -0.261093719 | |
| 22 | 45,750,000 | 45,900,000 | 611 | 223 | -0.359600025 | |
| 22 | 45,825,000 | 45,975,000 | 612 | 358 | -1.290913893 | |
| 22 | 45,900,000 | 46,050,000 | 613 | 461 | -0.570374113 | |
| 22 | 45,975,000 | 46,125,000 | 614 | 425 | 0.877113472 | WNT5A |
| 22 | 46,050,000 | 46,200,000 | 615 | 850 | 0.67990986 | WNT5A |
| 22 | 46,125,000 | 46,275,000 | 616 | 1020 | 0.504018449 | |
| 22 | 46,200,000 | 46,350,000 | 617 | 573 | 0.16903522 | |
| 22 | 46,275,000 | 46,425,000 | 618 | 522 | 0.000449262 | |
| 22 | 46,350,000 | 46,500,000 | 619 | 722 | 0.932716132 | CACNA2D3 |
| 22 | 46,425,000 | 46,575,000 | 620 | 648 | 1.308225234 | CACNA2D3 |
| 22 | 46,500,000 | 46,650,000 | 621 | 618 | 1.357951507 | CACNA2D3,LRTM1 |
| 22 | 46,575,000 | 46,725,000 | 622 | 1145 | 0.920997393 | CACNA2D3,LRTM1 |
| 22 | 46,650,000 | 46,800,000 | 623 | 1231 | 0.55592461 | CACNA2D3 |
| 22 | 46,725,000 | 46,875,000 | 624 | 891 | 0.164411045 | CACNA2D3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 46,800,000 | 46,950,000 | 625 | 864 | 0.298212228 | CACNA2D3 |
| 22 | 46,875,000 | 47,025,000 | 626 | 998 | 0.402039078 | CACNA2D3 |
| 22 | 46,950,000 | 47,100,000 | 627 | 1184 | 0.086676081 | |
| 22 | 47,025,000 | 47,175,000 | 628 | 1205 | 0.044565136 | |
| 22 | 47,100,000 | 47,250,000 | 629 | 1043 | 1.000076959 | |
| 22 | 47,175,000 | 47,325,000 | 630 | 882 | 0.749406183 | |
| 22 | 47,250,000 | 47,400,000 | 631 | 1013 | 0.226523654 | |
| 22 | 47,325,000 | 47,475,000 | 632 | 1318 | -0.274075109 | |
| 22 | 47,400,000 | 47,550,000 | 633 | 1399 | -0.050239164 | |
| 22 | 47,475,000 | 47,625,000 | 634 | 1378 | 0.648298911 | ACTR8,IL17RB,SELK |
| 22 | 47,550,000 | 47,700,000 | 635 | 1449 | 0.623189818 | ACTR8,CHDH,IL17RB,SELK |
| 22 | 47,625,000 | 47,775,000 | 636 | 1528 | 0.983436463 | CACNA1D,CHDH,IL17RB |
| 22 | 47,700,000 | 47,850,000 | 637 | 1535 | 1.03493906 | CACNA1D,CHDH |
| 22 | 47,775,000 | 47,925,000 | 638 | 1227 | 0.75687434 | CACNA1D |
| 22 | 47,850,000 | 48,000,000 | 639 | 1049 | 0.898664574 | CACNA1D |
| 22 | 47,925,000 | 48,075,000 | 640 | 836 | 0.798674884 | CACNA1D |
| 22 | 48,000,000 | 48,150,000 | 641 | 493 | 0.124525878 | CACNA1D,CHCHD5 |
| 22 | 48,075,000 | 48,225,000 | 642 | 708 | 0.511014534 | CHCHD5,DCP1A |
| 22 | 48,150,000 | 48,300,000 | 643 | 871 | 0.762581389 | DCP1A,TKT |
| 22 | 48,225,000 | 48,375,000 | 644 | 902 | 0.910777505 | DCP1A,PRKCD,TKT,ENSBTAG00000020973 |
| 22 | 48,300,000 | 48,450,000 | 645 | 1070 | 0.857817408 | PRKCD,ENSBTAG00000020973 |
| 22 | 48,375,000 | 48,525,000 | 646 | 983 | 0.724663038 | SFMBT1,ENSBTAG00000020973 |
| 22 | 48,450,000 | 48,600,000 | 647 | 813 | 1.170355498 | SFMBT1,TMEM110 |
| 22 | 48,525,000 | 48,675,000 | 648 | 697 | 1.096700796 | ITIH1,ITIH3,ITIH4,MUSTN1,SFMBT1,TMEM110 |
| 22 | 48,600,000 | 48,750,000 | 649 | 490 | 0.693665943 | GLT8D1,GNL3,ITIH1,ITIH3,ITIH4,MUSTN1,NEK4,PBRM1,SPCS1,TMEM110 |
| 22 | 48,675,000 | 48,825,000 | 650 | 459 | -0.476391399 | GLT8D1,GNL3,NEK4,PBRM1,SPCS1 |
| 22 | 48,750,000 | 48,900,000 | 651 | 619 | -0.797778279 | NT5DC2,PBRM1,SMIM4,STAB1 |
| 22 | 48,825,000 | 48,975,000 | 652 | 729 | -0.4217982 | NISCH,NT5DC2,PBRM1,SMIM4,STAB1 |
| 22 | 48,900,000 | 49,050,000 | 653 | 592 | -0.050388726 | BAP1,DNAH1,NISCH,PHF7,SEMA3G,STAB1,TNNC1 |
| 22 | 48,975,000 | 49,125,000 | 654 | 637 | 0.701932116 | BAP1,DNAH1,NISCH,PHF7,SEMA3G,TNNC1 |
| 22 | 49,050,000 | 49,200,000 | 655 | 694 | 0.632523531 | DNAH1,GLYCTK,WDR82P1 |
| 22 | 49,125,000 | 49,275,000 | 656 | 658 | -0.838871901 | ALAS1,GLYCTK,PPM1M,TLR9,WDR82P1 |
| 22 | 49,200,000 | 49,350,000 | 657 | 668 | -1.964696275 | ALAS1,POC1A,PPM1M,TLR9,WDR82P1 |
| 22 | 49,275,000 | 49,425,000 | 658 | 772 | -2.287413271 | DUSP7,POC1A |
| 22 | 49,350,000 | 49,500,000 | 659 | 958 | -1.383567942 | DUSP7,POC1A,RPL29 |
| 22 | 49,425,000 | 49,575,000 | 660 | 802 | -0.357120655 | ABHD14B,ACY1,GPR62,IQCF1,IQCF5,PARP3,PCBP4,RPL29,RRP9 |
| 22 | 49,500,000 | 49,650,000 | 661 | 646 | 0.3117889 | ABHD14B,ACY1,GPR62,IQCF1,IQCF2,IQCF3,IQCF5,IQCF6,PARP3,PCBP4,RPL29,RRP9,ENSBTAG00000037410 |
| 22 | 49,575,000 | 49,725,000 | 662 | 706 | 0.38761016 | GRM2,IQCF2,IQCF3,IQCF6,TEX264,ENSBTAG00000037410 |
| 22 | 49,650,000 | 49,800,000 | 663 | 704 | 0.565538795 | GRM2,RAD54L2,TEX264 |
| 22 | 49,725,000 | 49,875,000 | 664 | 537 | 0.944300417 | RAD54L2,VPRBP |
| 22 | 49,800,000 | 49,950,000 | 665 | 403 | 1.088042353 | MANF,RBM15B,VPRBP |
| 22 | 49,875,000 | 50,025,000 | 666 | 664 | 1.272438834 | DOCK3,MANF,RBM15B,VPRBP |
| 22 | 49,950,000 | 50,100,000 | 667 | 737 | 1.296827291 | DOCK3,MANF |
| 22 | 50,025,000 | 50,175,000 | 668 | 534 | 1.267985942 | DOCK3 |
| 22 | 50,100,000 | 50,250,000 | 669 | 704 | 1.260259754 | DOCK3 |
| 22 | 50,175,000 | 50,325,000 | 670 | 625 | 1.260018901 | CISH,MAPKAPK3 |
| 22 | 50,250,000 | 50,400,000 | 671 | 443 | 1.123892453 | C22H3ORF18,CISH,HEMK1,MAPKAPK3 |
| 22 | 50,325,000 | 50,475,000 | 672 | 412 | 1.136175705 | C22H3ORF18,CISH,HEMK1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 50,400,000 | 50,550,000 | 673 | 404 | 1.307441913 | CACNA2D2 |
| 22 | 50,475,000 | 50,625,000 | 674 | 431 | 0.901778397 | CACNA2D2,CYB561D2,HYAL1,HYAL2,IFRD2,NAT6,NP RL2,RASSF1,TMEM115,TUSC2,ZMYND10,ENSBTAG00 000047200 |
| 22 | 50,550,000 | 50,700,000 | 675 | 592 | 0.663832584 | CACNA2D2,CYB561D2,GNAI2,HYAL1,HYAL2,IFRD2,LS MEM2,NAT6,NPRL2,RASSF1,SEMA3B,TMEM115,TUSC 2,ZMYND10,ENSBTAG00000047200 |
| 22 | 50,625,000 | 50,775,000 | 676 | 839 | 0.637466831 | GNAI2,GNAT1,IFRD2,LSMEM2,SEMA3B,SEMA3F,SLC3 8A3 |
| 22 | 50,700,000 | 50,850,000 | 677 | 769 | 0.449882304 | GNAT1,RBM5,RBM6,SEMA3F,SLC38A3 |
| 22 | 50,775,000 | 50,925,000 | 678 | 653 | 0.300235372 | MON1A,RBM5,RBM6 |
| 22 | 50,850,000 | 51,000,000 | 679 | 702 | 0.533799466 | CAMKV,MON1A,MST1R,RBM6,TRAIP,UBA7,ENSBTAG 00000040083 |
| 22 | 50,925,000 | 51,075,000 | 680 | 716 | 0.804616115 | AMIGO3,CAMKV,CDHR4,FAM212A,GMPPB,IP6K1,MST 1R,RNF123,TRAIP,UBA7,ENSBTAG00000040083 |
| 22 | 51,000,000 | 51,150,000 | 681 | 737 | -0.803290618 | AMIGO3,APEH,BSN,CDHR4,FAM212A,GMPPB,IP6K1, MST1,RNF123,UBA7 |
| 22 | 51,075,000 | 51,225,000 | 682 | 892 | -1.811601179 | APEH,BSN,DAG1,MST1,RNF123 |
| 22 | 51,150,000 | 51,300,000 | 683 | 947 | -0.826429981 | AMT,BSN,DAG1,NICN1,RHOA,TCTA |
| 22 | 51,225,000 | 51,375,000 | 684 | 1072 | 0.55458895 | AMT,NICN1,RHOA,TCTA,USP4 |
| 22 | 51,300,000 | 51,450,000 | 685 | 1126 | 0.843959646 | C3orf62,CCDC36,CCDC71,KLHDC8B,MGC137053,RHO A,USP4 |
| 22 | 51,375,000 | 51,525,000 | 686 | 861 | 0.845722037 | C3orf62,CCDC36,CCDC71,KLHDC8B,LAMC1,MGC1370 53,QARS,QRICH1,USP19 |
| 22 | 51,450,000 | 51,600,000 | 687 | 914 | 0.987738084 | ARIH2,DALRD3,IMPDH2,LAMC1,NDUFAF3,P4HTM,QA RS,QRICH1,USP19,WDR6 |
| 22 | 51,525,000 | 51,675,000 | 688 | 1348 | 1.092582512 | ARIH2,DALRD3,IMPDH2,NDUFAF3,P4HTM,PRKAR2A, QRICH1,SLC25A20,WDR6 |
| 22 | 51,600,000 | 51,750,000 | 689 | 1390 | 0.953310752 | ARIH2,IP6K2,PRKAR2A,SLC25A20 |
| 22 | 51,675,000 | 51,825,000 | 690 | 1247 | 0.503305714 | CELSR3,IP6K2,NCKIPSD,PRKAR2A,SLC26A6 |
| 22 | 51,750,000 | 51,900,000 | 691 | 1275 | 0.24665294 | CELSR3,COL7A1,IP6K2,NCKIPSD,PFKFB4,SLC26A6,TME M89,UCN2,UQCRC1 |
| 22 | 51,825,000 | 51,975,000 | 692 | 1060 | 0.122821433 | ATRIP,COL7A1,PFKFB4,SHISA5,SLC26A6,TMEM89,TRE X1,UCN2,UQCRC1 |
| 22 | 51,900,000 | 52,050,000 | 693 | 886 | 0.486487911 | ATRIP,CCDC51,PFKFB4,PLXNB1,SHISA5,TREX1 |
| 22 | 51,975,000 | 52,125,000 | 694 | 1187 | -0.079165776 | ATRIP,CCDC51,PLXNB1,SPINK8 |
| 22 | 52,050,000 | 52,200,000 | 695 | 1119 | -0.485223003 | CATHL1,CATHL2,CATHL3,CATHL7,NME6,SPINK8,ENSB TAG00000016153,ENSBTAG00000039879 |
| 22 | 52,125,000 | 52,275,000 | 696 | 684 | -0.438002774 | CATHL1,CATHL2,CATHL3,CATHL5,CATHL6,CATHL7,CD C25A,NME6,ENSBTAG00000016153,ENSBTAG000000 31594,ENSBTAG00000039879 |
| 22 | 52,200,000 | 52,350,000 | 697 | 696 | 0.05631386 | CATHL5,CATHL6,CDC25A,ENSBTAG00000031594 |
| 22 | 52,275,000 | 52,425,000 | 698 | 720 | 0.293014403 | MAP4 |
| 22 | 52,350,000 | 52,500,000 | 699 | 613 | -0.236460968 | DHX30,MAP4,ENSBTAG00000047174 |
| 22 | 52,425,000 | 52,575,000 | 700 | 664 | -0.533153242 | DHX30,MAP4,SMARCC1,ENSBTAG00000047174 |
| 22 | 52,500,000 | 52,650,000 | 701 | 766 | -0.351455347 | CSPG5,SMARCC1 |
| 22 | 52,575,000 | 52,725,000 | 702 | 863 | -0.226252061 | C22H3orf75,CSPG5,SMARCC1 |
| 22 | 52,650,000 | 52,800,000 | 703 | 878 | -0.29352471 | C22H3orf75,CSPG5,SCAP |
| 22 | 52,725,000 | 52,875,000 | 704 | 853 | -0.361085393 | KLHL18,NGP,PTPN23,SCAP |
| 22 | 52,800,000 | 52,950,000 | 705 | 853 | 0.576644692 | KIF9,KLHL18,NGP,PTPN23,SCAP |
| 22 | 52,875,000 | 53,025,000 | 706 | 657 | 0.605285518 | KIF9,KLHL18,SETD2 |
| 22 | 52,950,000 | 53,100,000 | 707 | 501 | -0.90569318 | KIF9,SETD2,ENSBTAG00000022598 |
| 22 | 53,025,000 | 53,175,000 | 708 | 620 | 0.085491037 | CCDC12,PTH1R,SETD2,ENSBTAG00000022598 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 22 | 53,100,000 | 53,250,000 | 709 | 661 | 0.6517696 | CCDC12,MYL3,PRSS42,PTH1R |
| 22 | 53,175,000 | 53,325,000 | 710 | 679 | -0.146886342 | MYL3,PRSS42,PRSS45,PRSS46,PTH1R,ENSBTAG00000037821 |
| 22 | 53,250,000 | 53,400,000 | 711 | 813 | -0.035244457 | ALS2CL,PRSS45,PRSS46,PRSS50,TMIE,ENSBTAG00000037821 |
| 22 | 53,325,000 | 53,475,000 | 712 | 1038 | -0.495882264 | ALS2CL,LRRC2,PRSS46,PRSS50,TDGF1,TMIE |
| 22 | 53,400,000 | 53,550,000 | 713 | 1300 | -1.590871863 | LRRC2,LTF,RTP3,TDGF1 |
| 22 | 53,475,000 | 53,625,000 | 714 | 1166 | -0.818282847 | CCR2,CCR5,CCRL2,LRRC2,LTF,RTP3 |
| 22 | 53,550,000 | 53,700,000 | 715 | 611 | 0.450512225 | CCR2,CCR5,CCRL2,LTF |
| 22 | 53,625,000 | 53,775,000 | 716 | 475 | -0.485027007 | CCR3 |
| 22 | 53,700,000 | 53,850,000 | 717 | 691 | 0.538193793 | CCR3,ENSBTAG00000031355 |
| 22 | 53,775,000 | 53,925,000 | 718 | 766 | 0.662749484 | CCR1,ENSBTAG00000031355 |
| 22 | 53,850,000 | 54,000,000 | 719 | 840 | 0.322465633 | CCR1,CXCR6,FYCO1,XCR1 |
| 22 | 53,925,000 | 54,075,000 | 720 | 1052 | 0.306519741 | CCR9,CXCR6,FYCO1,XCR1 |
| 22 | 54,000,000 | 54,150,000 | 721 | 1338 | 0.588976125 | CCR9,CXCR6,FYCO1,LZTFL1,SLC6A20 |
| 22 | 54,075,000 | 54,225,000 | 722 | 1189 | 0.777895626 | LZTFL1,SACM1L,SLC6A20 |
| 22 | 54,150,000 | 54,300,000 | 723 | 1055 | 0.679670108 | LIMD1,SACM1L,SLC6A20 |
| 22 | 54,225,000 | 54,375,000 | 724 | 1001 | 0.596171061 | LARS2,LIMD1,SACM1L |
| 22 | 54,300,000 | 54,450,000 | 725 | 877 | -0.017963903 | LARS2,LIMD1 |
| 22 | 54,375,000 | 54,525,000 | 726 | 907 | -0.4344017 | LARS2 |
| 22 | 54,450,000 | 54,600,000 | 727 | 953 | -0.380368307 | LARS2 |
| 22 | 54,525,000 | 54,675,000 | 728 | 873 | 0.098162541 | TMEM158 |
| 22 | 54,600,000 | 54,750,000 | 729 | 798 | 0.528217051 | CDCP1,TMEM158,ENSBTAG00000026650 |
| 22 | 54,675,000 | 54,825,000 | 730 | 857 | 0.442214945 | CDCP1,CLEC3B,EXOSC7,ENSBTAG00000026650 |
| 22 | 54,750,000 | 54,900,000 | 731 | 686 | 0.511210292 | CDCP1,CLEC3B,EXOSC7,ZDHHC3 |
| 22 | 54,825,000 | 54,975,000 | 732 | 876 | -0.328008213 | EXOSC7,GHRL,SEC13,TMEM42,ZDHHC3 |
| 22 | 54,900,000 | 55,050,000 | 733 | 908 | -0.32511763 | ATP2B2,GHRL,SEC13,TMEM42 |
| 22 | 54,975,000 | 55,125,000 | 734 | 888 | 0.415660261 | ATP2B2,SEC13 |
| 22 | 55,050,000 | 55,200,000 | 735 | 829 | 0.000921485 | ATP2B2 |
| 22 | 55,125,000 | 55,275,000 | 736 | 689 | -1.28205766 | ATP2B2 |
| 22 | 55,200,000 | 55,350,000 | 737 | 840 | -0.436935607 | ATP2B2 |
| 22 | 55,275,000 | 55,425,000 | 738 | 711 | 0.626744019 | ATP2B2 |
| 22 | 55,350,000 | 55,500,000 | 739 | 612 | 1.027357849 | SLC6A11 |
| 22 | 55,425,000 | 55,575,000 | 740 | 701 | 1.227664339 | SLC6A11 |
| 22 | 55,500,000 | 55,650,000 | 741 | 880 | 1.119508643 | SLC6A11 |
| 22 | 55,575,000 | 55,725,000 | 742 | 1322 | -0.026532854 | SLC6A1,SLC6A11 |
| 22 | 55,650,000 | 55,800,000 | 743 | 1625 | -2.009123022 | SLC6A1 |
| 22 | 55,725,000 | 55,875,000 | 744 | 1212 | -1.599161379 | |
| 22 | 55,800,000 | 55,950,000 | 745 | 1041 | 0.073278753 | ATG7,HRH1 |
| 22 | 55,875,000 | 56,025,000 | 746 | 1045 | -0.04782726 | ATG7,HRH1 |
| 22 | 55,950,000 | 56,100,000 | 747 | 952 | -0.085927519 | ATG7,ENSBTAG00000031065 |
| 22 | 56,025,000 | 56,175,000 | 748 | 1007 | -0.576843737 | ATG7,ENSBTAG00000031065 |
| 22 | 56,100,000 | 56,250,000 | 749 | 811 | -1.147815282 | ATG7,VGLL4 |
| 22 | 56,175,000 | 56,325,000 | 750 | 729 | -0.099962072 | ATG7,VGLL4 |
| 22 | 56,250,000 | 56,400,000 | 751 | 870 | -0.046977692 | VGLL4 |
| 22 | 56,325,000 | 56,475,000 | 752 | 875 | -0.437924628 | TAMM41 |
| 22 | 56,400,000 | 56,550,000 | 753 | 1241 | -0.122209632 | TAMM41,TRH |
| 22 | 56,475,000 | 56,625,000 | 754 | 1101 | -0.111893502 | TAMM41,TRH |
| 22 | 56,550,000 | 56,700,000 | 755 | 600 | -0.282596663 | |
| 22 | 56,625,000 | 56,775,000 | 756 | 655 | 0.002209952 | PLXND1,TMCC1 |
| 22 | 56,700,000 | 56,850,000 | 757 | 876 | 0.350091966 | H1FOO,PLXND1,TMCC1 |
| 22 | 56,775,000 | 56,925,000 | 758 | 1266 | 0.668465642 | H1FOO,IFT122,PLXND1,RHO |
| 22 | 56,850,000 | 57,000,000 | 759 | 1535 | 0.828306948 | CAND2,EFCAB12,H1FOO,IFT122,MBD4,RHO,RPL32 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 56,925,000 | 57,075,000 | 760 | 1576 | 0.587911516 | CAND2,EFCAB12,IFT122,MBD4,RPL32,TMEM40 |
| 22 | 57,000,000 | 57,150,000 | 761 | 1349 | 0.459769046 | CAND2,RAF1,TMEM40 |
| 22 | 57,075,000 | 57,225,000 | 762 | 936 | -0.733861622 | MKRN2,RAF1,ENSBTAG00000045748 |
| 22 | 57,150,000 | 57,300,000 | 763 | 1078 | -0.679656584 | MKRN2,MKRN2OS,RAF1,TSEN2,ENSBTAG00000045748 |
| 22 | 57,225,000 | 57,375,000 | 764 | 1542 | 0.771569092 | MKRN2OS,PPARG,TSEN2 |
| 22 | 57,300,000 | 57,450,000 | 765 | 1323 | 0.929023689 | PPARG,TSEN2 |
| 22 | 57,375,000 | 57,525,000 | 766 | 781 | 0.738852579 | PPARG |
| 22 | 57,450,000 | 57,600,000 | 767 | 510 | 0.37382622 | PPARG,SYN2 |
| 22 | 57,525,000 | 57,675,000 | 768 | 574 | 0.060358953 | SYN2,TIMP4 |
| 22 | 57,600,000 | 57,750,000 | 769 | 703 | 0.112171147 | SYN2,TIMP4 |
| 22 | 57,675,000 | 57,825,000 | 770 | 843 | 0.368739983 | ENSBTAG00000031115 |
| 22 | 57,750,000 | 57,900,000 | 771 | 864 | 0.947953237 | MRPS25,ZFYVE20,ENSBTAG00000031115 |
| 22 | 57,825,000 | 57,975,000 | 772 | 606 | 1.20443052 | MRPS25,NR2C2,ZFYVE20 |
| 22 | 57,900,000 | 58,050,000 | 773 | 607 | 0.762499778 | FGD5,MRPS25,NR2C2 |
| 22 | 57,975,000 | 58,125,000 | 774 | 768 | 0.318115417 | FGD5 |
| 22 | 58,050,000 | 58,200,000 | 775 | 873 | 0.250785868 | FGD5 |
| 22 | 58,125,000 | 58,275,000 | 776 | 906 | -0.376965037 | C22H3ORF19,C3orf20,FGD5 |
| 22 | 58,200,000 | 58,350,000 | 777 | 860 | -0.836869518 | C22H3ORF19,C3orf20 |
| 22 | 58,275,000 | 58,425,000 | 778 | 893 | -0.888939086 | C22H3ORF19,GRIP2 |
| 22 | 58,350,000 | 58,500,000 | 779 | 710 | -1.789073138 | GRIP2,SLC6A6 |
| 22 | 58,425,000 | 58,575,000 | 780 | 413 | -0.263828266 | SLC6A6 |
| 22 | 58,500,000 | 58,650,000 | 781 | 835 | 1.34362042 | |
| 22 | 58,575,000 | 58,725,000 | 782 | 1448 | 0.909648114 | LSM3,XPC |
| 22 | 58,650,000 | 58,800,000 | 783 | 1337 | 0.604144094 | CHCHD4,LSM3,TMEM43,XPC,ENSBTAG00000017173,ENSBTAG00000023918 |
| 22 | 58,725,000 | 58,875,000 | 784 | 1098 | 0.596614447 | CHCHD4,TMEM43,WNT7A,ENSBTAG00000017173,ENSBTAG00000023918 |
| 22 | 58,800,000 | 58,950,000 | 785 | 1359 | 0.317418877 | WNT7A |
| 22 | 58,875,000 | 59,025,000 | 786 | 1658 | 0.431219923 | FBLN2 |
| 22 | 58,950,000 | 59,100,000 | 787 | 1778 | 0.584986075 | FBLN2,HDAC11 |
| 22 | 59,025,000 | 59,175,000 | 788 | 1628 | -0.090139535 | FBLN2,HDAC11,NUP210 |
| 22 | 59,100,000 | 59,250,000 | 789 | 1204 | -0.56434025 | HDAC11,NUP210 |
| 22 | 59,175,000 | 59,325,000 | 790 | 965 | 0.18368059 | NUP210 |
| 22 | 59,250,000 | 59,400,000 | 791 | 1415 | 0.775658466 | |
| 22 | 59,325,000 | 59,475,000 | 792 | 1449 | 0.756861125 | IQSEC1 |
| 22 | 59,400,000 | 59,550,000 | 793 | 777 | 0.446954756 | IQSEC1 |
| 22 | 59,475,000 | 59,625,000 | 794 | 758 | -0.254009069 | ACAD9,IQSEC1,ENSBTAG00000003244 |
| 22 | 59,550,000 | 59,700,000 | 795 | 1178 | 0.270737459 | ACAD9,EFCC1,GP9,KIAA1257,ENSBTAG00000003244 |
| 22 | 59,625,000 | 59,775,000 | 796 | 1295 | 0.703126974 | CNBP,EFCC1,GP9,ISY1,KIAA1257 |
| 22 | 59,700,000 | 59,850,000 | 797 | 1015 | 0.64975333 | CNBP,COPG1,H1FX,HMCES,ISY1 |
| 22 | 59,775,000 | 59,925,000 | 798 | 1109 | 0.665921484 | COPG1,H1FX,HMCES,RAB7A,ENSBTAG00000030941 |
| 22 | 59,850,000 | 60,000,000 | 799 | 1383 | 0.919674844 | RAB7A,RPN1,ENSBTAG00000030941 |
| 22 | 59,925,000 | 60,075,000 | 800 | 974 | 0.900817178 | DNAJB8,EEFSEC,GATA2,RPN1 |
| 22 | 60,000,000 | 60,150,000 | 801 | 768 | -1.060444518 | DNAJB8,EEFSEC,GATA2 |
| 22 | 60,075,000 | 60,225,000 | 802 | 1082 | -0.740383591 | EEFSEC,RUVBL1,SEC61A1 |
| 22 | 60,150,000 | 60,300,000 | 803 | 1400 | 0.318902869 | EEFSEC,KBTBD12,RUVBL1,SEC61A1 |
| 22 | 60,225,000 | 60,375,000 | 804 | 1614 | 0.428979328 | KBTBD12,SEC61A1 |
| 22 | 60,300,000 | 60,450,000 | 805 | 1721 | -0.048140069 | MGLL |
| 22 | 60,375,000 | 60,525,000 | 806 | 1516 | -0.074512846 | ABTB1,MGLL,PODXL2 |
| 22 | 60,450,000 | 60,600,000 | 807 | 832 | 0.17021744 | ABTB1,MCM2,MGLL,PODXL2,TPRA1 |
| 22 | 60,525,000 | 60,675,000 | 808 | 1009 | -0.124510516 | MCM2,PODXL2,TPRA1 |
| 22 | 60,600,000 | 60,750,000 | 809 | 1762 | -0.538422771 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 22 | 60,675,000 | 60,825,000 | 810 | 1916 | -0.152444651 | |
| 22 | 60,750,000 | 60,900,000 | 811 | 1548 | 0.299172763 | |
| 22 | 60,825,000 | 60,975,000 | 812 | 980 | -0.016663064 | CHCHD6,PLXNA1 |
| 22 | 60,900,000 | 61,050,000 | 813 | 925 | 0.233410996 | CHCHD6,PLXNA1 |
| 22 | 60,975,000 | 61,125,000 | 814 | 1379 | 0.533618805 | C3H3orf22,CHCHD6,CHST13,TRXR3 |
| 22 | 61,050,000 | 61,200,000 | 815 | 1297 | 0.52824427 | C3H3orf22,CHCHD6,CHST13,SLC41A3,TRXR3,UROC1,ZXDC |
| 22 | 61,125,000 | 61,275,000 | 816 | 1061 | 0.267027993 | ALDH1L1,CHST13,SLC41A3,UROC1,ZXDC |
| 22 | 61,200,000 | 61,350,000 | 817 | 1313 | 0.745778992 | ALDH1L1,CCDC37,KLF15,SLC41A3 |
| 22 | 61,275,000 | 61,425,000 | 818 | 1437 | 0.828292004 | CCDC37,KLF15 |
| 22 | 61,350,000 | 61,435,874 | 819 | 702 | 0.699067687 | |
| 23 | 0 | 150,000 | 1 | 877 | 0.670006936 | |
| 23 | 75,000 | 225,000 | 2 | 580 | 0.521464646 | KHDRBS2 |
| 23 | 150,000 | 300,000 | 3 | 374 | 0.894941412 | KHDRBS2 |
| 23 | 225,000 | 375,000 | 4 | 389 | 1.028290993 | KHDRBS2 |
| 23 | 300,000 | 450,000 | 5 | 757 | 0.484606814 | KHDRBS2 |
| 23 | 375,000 | 525,000 | 6 | 1115 | 0.37261099 | KHDRBS2 |
| 23 | 450,000 | 600,000 | 7 | 1147 | 0.542518498 | KHDRBS2 |
| 23 | 525,000 | 675,000 | 8 | 1092 | 0.619871588 | KHDRBS2 |
| 23 | 600,000 | 750,000 | 9 | 1050 | 0.608125383 | KHDRBS2 |
| 23 | 675,000 | 825,000 | 10 | 884 | 0.368211847 | KHDRBS2 |
| 23 | 750,000 | 900,000 | 11 | 871 | -0.06229387 | KHDRBS2 |
| 23 | 825,000 | 975,000 | 12 | 1008 | 0.097652223 | KHDRBS2 |
| 23 | 900,000 | 1,050,000 | 13 | 854 | 0.249705127 | |
| 23 | 975,000 | 1,125,000 | 14 | 952 | 0.175505953 | |
| 23 | 1,050,000 | 1,200,000 | 15 | 1258 | 0.428058551 | |
| 23 | 1,125,000 | 1,275,000 | 16 | 1233 | 0.529280275 | |
| 23 | 1,200,000 | 1,350,000 | 17 | 1176 | 0.041561587 | |
| 23 | 1,275,000 | 1,425,000 | 18 | 1134 | 0.123298244 | |
| 23 | 1,350,000 | 1,500,000 | 19 | 1236 | 0.691263502 | |
| 23 | 1,425,000 | 1,575,000 | 20 | 1127 | 0.099632204 | |
| 23 | 1,500,000 | 1,650,000 | 21 | 1024 | 0.079337008 | |
| 23 | 1,575,000 | 1,725,000 | 22 | 1217 | -0.325862873 | |
| 23 | 1,650,000 | 1,800,000 | 23 | 1206 | -2.7760808 | |
| 23 | 1,725,000 | 1,875,000 | 24 | 1065 | -3.099025984 | |
| 23 | 1,800,000 | 1,950,000 | 25 | 1141 | 0.782248863 | |
| 23 | 1,875,000 | 2,025,000 | 26 | 1420 | 0.730539959 | |
| 23 | 1,950,000 | 2,100,000 | 27 | 1298 | 0.273801131 | |
| 23 | 2,025,000 | 2,175,000 | 28 | 1379 | 0.260389644 | |
| 23 | 2,100,000 | 2,250,000 | 29 | 1701 | 0.474258223 | |
| 23 | 2,175,000 | 2,325,000 | 30 | 1654 | 0.170338872 | |
| 23 | 2,250,000 | 2,400,000 | 31 | 1207 | -0.283936543 | |
| 23 | 2,325,000 | 2,475,000 | 32 | 1094 | -0.352333092 | |
| 23 | 2,400,000 | 2,550,000 | 33 | 1202 | 0.257268736 | PRIM2 |
| 23 | 2,475,000 | 2,625,000 | 34 | 1182 | 0.498107198 | PRIM2 |
| 23 | 2,550,000 | 2,700,000 | 35 | 1067 | 0.193983492 | PRIM2 |
| 23 | 2,625,000 | 2,775,000 | 36 | 878 | 0.015587605 | PRIM2 |
| 23 | 2,700,000 | 2,850,000 | 37 | 1033 | 0.484038127 | PRIM2 |
| 23 | 2,775,000 | 2,925,000 | 38 | 1501 | 0.474725948 | PRIM2 |
| 23 | 2,850,000 | 3,000,000 | 39 | 1135 | 0.492103711 | BAG2,RAB23,ZNF451 |
| 23 | 2,925,000 | 3,075,000 | 40 | 399 | 0.862218286 | BAG2,RAB23,ZNF451 |
| 23 | 3,000,000 | 3,150,000 | 41 | 634 | 0.819106747 | BEND6,ZNF451 |
| 23 | 3,075,000 | 3,225,000 | 42 | 860 | 0.159369763 | BEND6 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 23 | 3,150,000 | 3,300,000 | 43 | 757 | 0.088304629 | |
| 23 | 3,225,000 | 3,375,000 | 44 | 1283 | 1.033947119 | |
| 23 | 3,300,000 | 3,450,000 | 45 | 1957 | 0.783563116 | DST |
| 23 | 3,375,000 | 3,525,000 | 46 | 1709 | 0.482425302 | DST |
| 23 | 3,450,000 | 3,600,000 | 47 | 1200 | 0.517788888 | DST |
| 23 | 3,525,000 | 3,675,000 | 48 | 1170 | 0.335337233 | DST |
| 23 | 3,600,000 | 3,750,000 | 49 | 987 | 0.070426758 | DST |
| 23 | 3,675,000 | 3,825,000 | 50 | 935 | 0.370076027 | DST |
| 23 | 3,750,000 | 3,900,000 | 51 | 1318 | 0.574210083 | |
| 23 | 3,825,000 | 3,975,000 | 52 | 1259 | -0.085229413 | COL21A1 |
| 23 | 3,900,000 | 4,050,000 | 53 | 1349 | -0.341572469 | COL21A1 |
| 23 | 3,975,000 | 4,125,000 | 54 | 1552 | 0.177116343 | COL21A1 |
| 23 | 4,050,000 | 4,200,000 | 55 | 1626 | -0.37937464 | COL21A1,ENSBTAG00000046193 |
| 23 | 4,125,000 | 4,275,000 | 56 | 1304 | -0.492827459 | ENSBTAG00000046193 |
| 23 | 4,200,000 | 4,350,000 | 57 | 1153 | -0.474372613 | |
| 23 | 4,275,000 | 4,425,000 | 58 | 1257 | -0.190543611 | BMP5 |
| 23 | 4,350,000 | 4,500,000 | 59 | 1026 | -0.045781207 | BMP5 |
| 23 | 4,425,000 | 4,575,000 | 60 | 957 | -0.323579076 | BMP5 |
| 23 | 4,500,000 | 4,650,000 | 61 | 942 | 0.482535426 | BMP5 |
| 23 | 4,575,000 | 4,725,000 | 62 | 984 | 0.477053496 | HMGCLL1 |
| 23 | 4,650,000 | 4,800,000 | 63 | 1005 | 0.411297154 | HMGCLL1 |
| 23 | 4,725,000 | 4,875,000 | 64 | 744 | 0.46087184 | HMGCLL1 |
| 23 | 4,800,000 | 4,950,000 | 65 | 767 | 0.210366696 | HMGCLL1 |
| 23 | 4,875,000 | 5,025,000 | 66 | 1397 | -0.285486687 | GFRAL,HMGCLL1 |
| 23 | 4,950,000 | 5,100,000 | 67 | 1630 | -0.128912113 | GFRAL,HCRTR2 |
| 23 | 5,025,000 | 5,175,000 | 68 | 1533 | 0.543940013 | HCRTR2 |
| 23 | 5,100,000 | 5,250,000 | 69 | 1406 | 0.454623653 | HCRTR2 |
| 23 | 5,175,000 | 5,325,000 | 70 | 1286 | -0.245410088 | HCRTR2 |
| 23 | 5,250,000 | 5,400,000 | 71 | 1094 | -0.027780281 | FAM83B |
| 23 | 5,325,000 | 5,475,000 | 72 | 1007 | -0.543666719 | FAM83B |
| 23 | 5,400,000 | 5,550,000 | 73 | 1384 | -1.173635055 | FAM83B |
| 23 | 5,475,000 | 5,625,000 | 74 | 1806 | 0.394844277 | FAM83B |
| 23 | 5,550,000 | 5,700,000 | 75 | 1566 | 1.063993204 | |
| 23 | 5,625,000 | 5,775,000 | 76 | 888 | -0.115156127 | |
| 23 | 5,700,000 | 5,850,000 | 77 | 545 | -0.512629898 | |
| 23 | 5,775,000 | 5,925,000 | 78 | 930 | 1.048031091 | |
| 23 | 5,850,000 | 6,000,000 | 79 | 1055 | 1.129683544 | TINAG |
| 23 | 5,925,000 | 6,075,000 | 80 | 724 | 1.138166607 | TINAG |
| 23 | 6,000,000 | 6,150,000 | 81 | 860 | 1.120467333 | MLIP,TINAG |
| 23 | 6,075,000 | 6,225,000 | 82 | 683 | 0.756347273 | MLIP |
| 23 | 6,150,000 | 6,300,000 | 83 | 875 | 0.351146661 | MLIP |
| 23 | 6,225,000 | 6,375,000 | 84 | 1408 | -0.064621065 | MLIP |
| 23 | 6,300,000 | 6,450,000 | 85 | 1311 | -0.211708246 | MLIP |
| 23 | 6,375,000 | 6,525,000 | 86 | 1346 | 0.606678601 | MLIP |
| 23 | 6,450,000 | 6,600,000 | 87 | 1331 | 0.24797668 | LRRC1 |
| 23 | 6,525,000 | 6,675,000 | 88 | 1397 | -1.755124417 | LRRC1 |
| 23 | 6,600,000 | 6,750,000 | 89 | 1299 | -1.947438248 | |
| 23 | 6,675,000 | 6,825,000 | 90 | 777 | -0.767637384 | KLHL31 |
| 23 | 6,750,000 | 6,900,000 | 91 | 592 | -0.299872495 | KLHL31 |
| 23 | 6,825,000 | 6,975,000 | 92 | 524 | -0.233543104 | GCLC |
| 23 | 6,900,000 | 7,050,000 | 93 | 861 | 1.085461291 | BOLA-DIB,BOLA-DYA,DSB,GCLC |
| 23 | 6,975,000 | 7,125,000 | 94 | 1175 | 1.203838996 | BOLA-DIB,BOLA-DOB,BOLA-DYA,DSB,PSMB8,TAP1,TAP2,ENSBTAG00000003037 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 7,050,000 | 7,200,000 | 95 | 1254 | 0.817607498 | BOLA-DOB,H2B,HLA- DMB,PSMB8,PSMB9,TAP1,TAP2,ENSBTAG0000000303 7 |
| 23 | 7,125,000 | 7,275,000 | 96 | 1193 | 0.09210413 | BOLA-DMA,BOLA-DNA,BRD2,H2B,HLA- DMB,PSMB9,TAP1 |
| 23 | 7,200,000 | 7,350,000 | 97 | 682 | -0.275048888 | BOLA-DMA,BOLA- DNA,BRD2,COL11A2,HSD17B8,RING1,RXRB,SLC39A7 B3GALT4,C6ORF11,COL11A2,HSD17B8,PFDN6,RGL2,R ING1,RPS18,RXRB,SLC39A7,TAPBP,VPS52 |
| 23 | 7,275,000 | 7,425,000 | 98 | 614 | 0.668170494 | B3GALT4,C6ORF11,DAXX,PFDN6,RGL2,RPS18,TAPBP,V PS52,ZBTB22 |
| 23 | 7,350,000 | 7,500,000 | 99 | 910 | -0.496416828 | CUTA,DAXX,KIFC1,PHF1,SYNGAP1,TAPBP,ZBTB22,ZBT B9 |
| 23 | 7,500,000 | 7,650,000 | 101 | 397 | -0.705842019 | CUTA,KIFC1,PHF1,SYNGAP1,ZBTB9 |
| 23 | 7,575,000 | 7,725,000 | 102 | 608 | -0.45511908 | BAK1,GGNBP1,ITPR3 |
| 23 | 7,650,000 | 7,800,000 | 103 | 820 | 0.139490652 | BAK1,GGNBP1,ITPR3,UQCC2 |
| 23 | 7,725,000 | 7,875,000 | 104 | 872 | 0.460062344 | ITPR3,LEMD2,MLN,UQCC2 |
| 23 | 7,800,000 | 7,950,000 | 105 | 658 | 0.860305022 | LEMD2,MLN,UQCC2 |
| 23 | 7,875,000 | 8,025,000 | 106 | 657 | 0.86152122 | |
| 23 | 7,950,000 | 8,100,000 | 107 | 753 | 0.235190771 | GRM4 |
| 23 | 8,025,000 | 8,175,000 | 108 | 816 | 0.274162998 | GRM4 |
| 23 | 8,100,000 | 8,250,000 | 109 | 788 | 0.729248039 | GRM4 |
| 23 | 8,175,000 | 8,325,000 | 110 | 477 | -0.599709145 | GRM4,HMGA1,NUDT3,ENSBTAG000000034519 |
| 23 | 8,250,000 | 8,400,000 | 111 | 317 | -2.734577721 | HMGA1,NUDT3,ENSBTAG000000034519 |
| 23 | 8,325,000 | 8,475,000 | 112 | 399 | -0.540111521 | NUDT3,PACSIN1,RPS10 |
| 23 | 8,400,000 | 8,550,000 | 113 | 629 | 0.285165163 | NUDT3,PACSIN1,RPS10,SPDEF |
| 23 | 8,475,000 | 8,625,000 | 114 | 545 | 0.270175523 | C6ORF106,PACSIN1,SPDEF |
| 23 | 8,550,000 | 8,700,000 | 115 | 336 | 0.673833242 | C6ORF106,SPDEF |
| 23 | 8,625,000 | 8,775,000 | 116 | 344 | 0.619472347 | C6ORF106,SNRPC |
| 23 | 8,700,000 | 8,850,000 | 117 | 404 | 0.408257208 | ANKS1A,SNRPC,TAF11,UHRF1BP1 |
| 23 | 8,775,000 | 8,925,000 | 118 | 449 | 0.428699113 | ANKS1A,TAF11,UHRF1BP1 |
| 23 | 8,850,000 | 9,000,000 | 119 | 614 | 0.342486098 | ANKS1A |
| 23 | 8,925,000 | 9,075,000 | 120 | 763 | 0.167034486 | ANKS1A,TCP11 |
| 23 | 9,000,000 | 9,150,000 | 121 | 650 | 0.331934529 | ANKS1A,SCUBE3,TCP11 |
| 23 | 9,075,000 | 9,225,000 | 122 | 428 | 0.305122606 | SCUBE3,ZNF76 |
| 23 | 9,150,000 | 9,300,000 | 123 | 365 | 0.589851791 | DEF6,SCUBE3,ZNF76 |
| 23 | 9,225,000 | 9,375,000 | 124 | 545 | 0.833084021 | DEF6,PPARD,ZNF76 |
| 23 | 9,300,000 | 9,450,000 | 125 | 602 | -1.632069862 | FANCE,PPARD,RPL10A,TEAD3,TULP1 |
| 23 | 9,375,000 | 9,525,000 | 126 | 648 | -1.441163117 | FANCE,FKBP5,RPL10A,TEAD3,TULP1 |
| 23 | 9,450,000 | 9,600,000 | 127 | 578 | 0.034364044 | FKBP5 |
| 23 | 9,525,000 | 9,675,000 | 128 | 394 | 0.403428556 | FKBP5 |
| 23 | 9,600,000 | 9,750,000 | 129 | 726 | 0.163966819 | ARMC12,CLPS,FKBP5,LHFPL5 |
| 23 | 9,675,000 | 9,825,000 | 130 | 840 | 0.284841622 | ARMC12,CLPS,LHFPL5,SRPK1 |
| 23 | 9,750,000 | 9,900,000 | 131 | 592 | 0.273978426 | SLC26A8,SRPK1 |
| 23 | 9,825,000 | 9,975,000 | 132 | 584 | 0.559573843 | MAPK14,SLC26A8 |
| 23 | 9,900,000 | 10,050,000 | 133 | 511 | 1.144183797 | MAPK13,MAPK14,SLC26A8 |
| 23 | 9,975,000 | 10,125,000 | 134 | 414 | 0.815590594 | BRPF3,MAPK13,MAPK14 |
| 23 | 10,050,000 | 10,200,000 | 135 | 518 | 0.534157542 | BRPF3,PNPLA1 |
| 23 | 10,125,000 | 10,275,000 | 136 | 868 | 1.232611487 | BRPF3,C6orf222,PNPLA1 |
| 23 | 10,200,000 | 10,350,000 | 137 | 1253 | 1.3277536 | C6orf222,PNPLA1 |
| 23 | 10,275,000 | 10,425,000 | 138 | 1228 | 1.200407797 | KCTD20,STK38 |
| 23 | 10,350,000 | 10,500,000 | 139 | 1109 | 1.221799206 | KCTD20,SRSF3,STK38,ENSBTAG00000004219 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 10,425,000 | 10,575,000 | 140 | 1109 | 0.767947679 | CDKN1A,RPS4Y1,SRSF3,STK38,ENSBTAG00000004219 ,ENSBTAG00000045551 |
| 23 | 10,500,000 | 10,650,000 | 141 | 1290 | 0.641883394 | CDKN1A,CPNE5,RAB44,RPS4Y1,ENSBTAG0000001073 0,ENSBTAG00000045551 |
| 23 | 10,575,000 | 10,725,000 | 142 | 1568 | 0.344757102 | CPNE5,RAB44,ENSBTAG00000010730,ENSBTAG00000 045551 |
| 23 | 10,650,000 | 10,800,000 | 143 | 1436 | 0.10618057 | C6orf89,CPNE5,PPIL1 |
| 23 | 10,725,000 | 10,875,000 | 144 | 1421 | 0.925238977 | C6orf89,CPNE5,MTCH1,PI16,PPIL1 |
| 23 | 10,800,000 | 10,950,000 | 145 | 1641 | 0.763159709 | C6orf89,FGD2,MTCH1,PI16 |
| 23 | 10,875,000 | 11,025,000 | 146 | 1547 | 0.762676779 | FGD2 |
| 23 | 10,950,000 | 11,100,000 | 147 | 1104 | 0.99234208 | PIM1,ENSBTAG00000045936 |
| 23 | 11,025,000 | 11,175,000 | 148 | 1064 | 0.843549805 | PIM1,TBC1D22B,TMEM217,ENSBTAG00000045936 |
| 23 | 11,100,000 | 11,250,000 | 149 | 1174 | 0.580946996 | RNF8,TBC1D22B,TMEM217,ENSBTAG00000045936 |
| 23 | 11,175,000 | 11,325,000 | 150 | 1182 | 0.464795435 | CMTR1,RNF8,TBC1D22B |
| 23 | 11,250,000 | 11,400,000 | 151 | 1166 | 0.495002968 | CCDC167,CMTR1,RNF8 |
| 23 | 11,325,000 | 11,475,000 | 152 | 1412 | 0.61935978 | CCDC167,CMTR1 |
| 23 | 11,400,000 | 11,550,000 | 153 | 1595 | 0.27861542 | MDGA1 |
| 23 | 11,475,000 | 11,625,000 | 154 | 1496 | 0.557293781 | MDGA1 |
| 23 | 11,550,000 | 11,700,000 | 155 | 1516 | 0.175286313 | MDGA1 |
| 23 | 11,625,000 | 11,775,000 | 156 | 1337 | -1.669813731 | ZFAND3 |
| 23 | 11,700,000 | 11,850,000 | 157 | 1126 | -2.372189311 | ZFAND3 |
| 23 | 11,775,000 | 11,925,000 | 158 | 1057 | -2.675831163 | ZFAND3 |
| 23 | 11,850,000 | 12,000,000 | 159 | 1185 | -3.980486772 | ZFAND3 |
| 23 | 11,925,000 | 12,075,000 | 160 | 1210 | -2.952912474 | ZFAND3 |
| 23 | 12,000,000 | 12,150,000 | 161 | 1031 | -0.052497998 | ZFAND3 |
| 23 | 12,075,000 | 12,225,000 | 162 | 996 | 0.610602254 | |
| 23 | 12,150,000 | 12,300,000 | 163 | 1041 | -0.222328061 | |
| 23 | 12,225,000 | 12,375,000 | 164 | 889 | -1.038150831 | |
| 23 | 12,300,000 | 12,450,000 | 165 | 897 | -0.157820846 | BTBD9 |
| 23 | 12,375,000 | 12,525,000 | 166 | 1261 | -0.172584535 | BTBD9,GLO1 |
| 23 | 12,450,000 | 12,600,000 | 167 | 1762 | 0.270038011 | BTBD9,DNAH8,GLO1 |
| 23 | 12,525,000 | 12,675,000 | 168 | 1679 | 0.508690076 | DNAH8 |
| 23 | 12,600,000 | 12,750,000 | 169 | 1504 | 0.422560718 | DNAH8 |
| 23 | 12,675,000 | 12,825,000 | 170 | 1598 | 0.727601356 | DNAH8 |
| 23 | 12,750,000 | 12,900,000 | 171 | 1650 | 0.944441287 | DNAH8 |
| 23 | 12,825,000 | 12,975,000 | 172 | 1260 | 0.052784733 | DNAH8,GLP1R,SAYSD1 |
| 23 | 12,900,000 | 13,050,000 | 173 | 1126 | -0.820172605 | GLP1R,SAYSD1 |
| 23 | 12,975,000 | 13,125,000 | 174 | 1551 | 0.292919891 | KCNK5,ENSBTAG00000007140 |
| 23 | 13,050,000 | 13,200,000 | 175 | 1156 | 0.636327847 | KCNK16,KCNK17,KCNK5,ENSBTAG00000007140 |
| 23 | 13,125,000 | 13,275,000 | 176 | 708 | 0.398530571 | KCNK16,KCNK17 |
| 23 | 13,200,000 | 13,350,000 | 177 | 824 | 0.95584872 | |
| 23 | 13,275,000 | 13,425,000 | 178 | 1123 | 0.835099008 | KIF6 |
| 23 | 13,350,000 | 13,500,000 | 179 | 1408 | 0.809410819 | KIF6 |
| 23 | 13,425,000 | 13,575,000 | 180 | 1151 | 0.824128985 | KIF6 |
| 23 | 13,500,000 | 13,650,000 | 181 | 990 | 0.649159532 | KIF6 |
| 23 | 13,575,000 | 13,725,000 | 182 | 1083 | 0.431000534 | |
| 23 | 13,650,000 | 13,800,000 | 183 | 830 | 0.078565912 | DAAM2 |
| 23 | 13,725,000 | 13,875,000 | 184 | 652 | 0.123849634 | DAAM2,MOCS1 |
| 23 | 13,800,000 | 13,950,000 | 185 | 748 | 0.353746257 | DAAM2,MOCS1 |
| 23 | 13,875,000 | 14,025,000 | 186 | 1135 | 0.208209894 | |
| 23 | 13,950,000 | 14,100,000 | 187 | 1475 | 0.72673309 | |
| 23 | 14,025,000 | 14,175,000 | 188 | 1431 | 1.110044013 | |
| 23 | 14,100,000 | 14,250,000 | 189 | 1062 | 1.270314309 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 14,175,000 | 14,325,000 | 190 | 537 | 1.35841613 | LRFN2 |
| 23 | 14,250,000 | 14,400,000 | 191 | 511 | -0.247576963 | LRFN2 |
| 23 | 14,325,000 | 14,475,000 | 192 | 799 | -0.356496493 | LRFN2 |
| 23 | 14,400,000 | 14,550,000 | 193 | 875 | -1.76E-05 | |
| 23 | 14,475,000 | 14,625,000 | 194 | 1311 | 0.69672151 | |
| 23 | 14,550,000 | 14,700,000 | 195 | 1767 | 0.917412646 | |
| 23 | 14,625,000 | 14,775,000 | 196 | 1930 | -0.206043466 | |
| 23 | 14,700,000 | 14,850,000 | 197 | 2069 | -0.781880546 | |
| 23 | 14,775,000 | 14,925,000 | 198 | 2166 | -0.584523125 | |
| 23 | 14,850,000 | 15,000,000 | 199 | 2017 | -0.332194578 | APOBEC2,TSPO2,UNC5CL |
| 23 | 14,925,000 | 15,075,000 | 200 | 1519 | 0.385644912 | APOBEC2,NFYA,OARD1,TSPO2,UNC5CL,ENSBTAG0000021359 |
| 23 | 15,000,000 | 15,150,000 | 201 | 1399 | -1.164730593 | NFYA,OARD1,TREM1,TREM2,TREML1,TREML2,ENSBTAG00000021359 |
| 23 | 15,075,000 | 15,225,000 | 202 | 1356 | -1.863869555 | TREM1,TREM2,TREML1,TREML2 |
| 23 | 15,150,000 | 15,300,000 | 203 | 1214 | 0.336259871 | TREM1 |
| 23 | 15,225,000 | 15,375,000 | 204 | 1343 | 0.340880751 | |
| 23 | 15,300,000 | 15,450,000 | 205 | 1358 | 0.03201828 | FOXP4 |
| 23 | 15,375,000 | 15,525,000 | 206 | 1183 | 0.397695046 | FOXP4,MDFI,TFEB |
| 23 | 15,450,000 | 15,600,000 | 207 | 937 | 0.610405041 | FRS3,MDFI,PGC,TFEB |
| 23 | 15,525,000 | 15,675,000 | 208 | 839 | 0.67878992 | FRS3,PGC,TOMM6,USP49,ENSBTAG00000038916 |
| 23 | 15,600,000 | 15,750,000 | 209 | 875 | 0.006584791 | BYSL,CCND3,FRS3,MED20,TOMM6,USP49,ENSBTAG00000038916 |
| 23 | 15,675,000 | 15,825,000 | 210 | 830 | -0.188456235 | BYSL,CCND3,MED20,TAF8 |
| 23 | 15,750,000 | 15,900,000 | 211 | 725 | 0.803251514 | C6orf132,MGC137036,TAF8 |
| 23 | 15,825,000 | 15,975,000 | 212 | 736 | 0.147221584 | C6orf132,GUCA1A,GUCA1B,MGC137036,MRPS10,TRERF1 |
| 23 | 15,900,000 | 16,050,000 | 213 | 952 | -1.242097732 | GUCA1A,GUCA1B,MRPS10,TRERF1 |
| 23 | 15,975,000 | 16,125,000 | 214 | 861 | -1.735061847 | TRERF1 |
| 23 | 16,050,000 | 16,200,000 | 215 | 564 | -1.386305504 | |
| 23 | 16,125,000 | 16,275,000 | 216 | 429 | -0.105444737 | UBR2 |
| 23 | 16,200,000 | 16,350,000 | 217 | 334 | -0.203429225 | UBR2 |
| 23 | 16,275,000 | 16,425,000 | 218 | 389 | 0.122081587 | PRPH2,TBCC,UBR2 |
| 23 | 16,350,000 | 16,500,000 | 219 | 552 | 0.532930887 | GLTSCR1L,PRPH2,TBCC,UBR2 |
| 23 | 16,425,000 | 16,575,000 | 220 | 495 | 0.780736888 | CNPY3,GLTSCR1L,PTCRA,RPL7L1 |
| 23 | 16,500,000 | 16,650,000 | 221 | 378 | 0.871983583 | CNPY3,CUL7,GLTSCR1L,GNMT,KLHDC3,MEA1,PEX6,PPP2R5D,PTCRA,RPL7L1 |
| 23 | 16,575,000 | 16,725,000 | 222 | 387 | 0.194744286 | CUL7,GNMT,KLC4,KLHDC3,MEA1,MRPL2,PEX6,PPP2R5D,PTK7 |
| 23 | 16,650,000 | 16,800,000 | 223 | 321 | 0.033480472 | CUL7,CUL9,DNPH1,KLC4,MRPL2,PTK7,SRF |
| 23 | 16,725,000 | 16,875,000 | 224 | 296 | 0.790294459 | CRIP3,CUL9,DNPH1,PTK7,SLC22A7,SRF,ENSBTAG00000045499,ENSBTAG00000046107 |
| 23 | 16,800,000 | 16,950,000 | 225 | 349 | 0.689566705 | CRIP3,SLC22A7,ZNF318,ENSBTAG00000045499,ENSBTAG00000046107 |
| 23 | 16,875,000 | 17,025,000 | 226 | 568 | 0.101202824 | ABCC10,CRIP3,DLK2,TJAP1,ZNF318 |
| 23 | 16,950,000 | 17,100,000 | 227 | 803 | 0.260980529 | ABCC10,DLK2,LRRC73,POLH,POLR1C,TJAP1,XPO5,YIPF3 |
| 23 | 17,025,000 | 17,175,000 | 228 | 916 | 0.87739705 | GTPBP2,LRRC73,MAD2L1BP,MRPS18A,POLH,POLR1C,RSPH9,TJAP1,XPO5,YIPF3 |
| 23 | 17,100,000 | 17,250,000 | 229 | 680 | 0.923417132 | GTPBP2,MAD2L1BP,MRPS18A,POLH,RSPH9 |
| 23 | 17,175,000 | 17,325,000 | 230 | 338 | 0.392283407 | VEGFA,ENSBTAG0000005339 |
| 23 | 17,250,000 | 17,400,000 | 231 | 514 | 1.274672342 | VEGFA,ENSBTAG0000005339 |
| 23 | 17,325,000 | 17,475,000 | 232 | 548 | 1.324814465 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 17,400,000 | 17,550,000 | 233 | 378 | 0.656745396 | |
| 23 | 17,475,000 | 17,625,000 | 234 | 459 | 0.006479145 | AARS2 |
| 23 | 17,550,000 | 17,700,000 | 235 | 599 | -0.220605434 | AARS2,MRPL14,TMEM63B |
| 23 | 17,625,000 | 17,775,000 | 236 | 913 | 0.196263148 | AARS2,CDC5L,MRPL14,TMEM63B |
| 23 | 17,700,000 | 17,850,000 | 237 | 890 | 0.148853385 | CAPN11,CDC5L,SLC29A1,TMEM63B |
| 23 | 17,775,000 | 17,925,000 | 238 | 593 | -0.364331951 | CAPN11,NFKBIE,SLC29A1,SLC35B2,TMEM151B,TMEM63B,ENSBTAG00000000778 |
| 23 | 17,850,000 | 18,000,000 | 239 | 591 | 0.469485291 | NFKBIE,SLC29A1,SLC35B2,TMEM151B,ENSBTAG00000000778 |
| 23 | 17,925,000 | 18,075,000 | 240 | 592 | 0.603089108 | |
| 23 | 18,000,000 | 18,150,000 | 241 | 539 | -0.237463114 | |
| 23 | 18,075,000 | 18,225,000 | 242 | 682 | -0.239613977 | |
| 23 | 18,150,000 | 18,300,000 | 243 | 872 | 0.361895429 | SUPT3H |
| 23 | 18,225,000 | 18,375,000 | 244 | 593 | 0.076664469 | SUPT3H |
| 23 | 18,300,000 | 18,450,000 | 245 | 309 | 0.255874106 | SUPT3H |
| 23 | 18,375,000 | 18,525,000 | 246 | 337 | 0.893126422 | SUPT3H |
| 23 | 18,450,000 | 18,600,000 | 247 | 341 | 0.445736888 | SUPT3H |
| 23 | 18,525,000 | 18,675,000 | 248 | 325 | 0.089921524 | RUNX2,SUPT3H |
| 23 | 18,600,000 | 18,750,000 | 249 | 361 | 0.990064635 | RUNX2,SUPT3H |
| 23 | 18,675,000 | 18,825,000 | 250 | 547 | 1.228222786 | RUNX2 |
| 23 | 18,750,000 | 18,900,000 | 251 | 878 | 0.97162199 | RUNX2 |
| 23 | 18,825,000 | 18,975,000 | 252 | 1343 | 0.521647074 | |
| 23 | 18,900,000 | 19,050,000 | 253 | 1609 | 0.327535126 | |
| 23 | 18,975,000 | 19,125,000 | 254 | 1597 | 0.227607226 | |
| 23 | 19,050,000 | 19,200,000 | 255 | 1413 | 0.529725119 | CLIC5 |
| 23 | 19,125,000 | 19,275,000 | 256 | 1490 | 0.744553318 | CLIC5 |
| 23 | 19,200,000 | 19,350,000 | 257 | 1742 | -0.055847299 | CLIC5 |
| 23 | 19,275,000 | 19,425,000 | 258 | 1624 | -0.184926364 | CLIC5,ENPP4,ENPP5 |
| 23 | 19,350,000 | 19,500,000 | 259 | 1144 | 0.336019705 | ENPP4,ENPP5,RCAN2 |
| 23 | 19,425,000 | 19,575,000 | 260 | 729 | -0.464526752 | RCAN2 |
| 23 | 19,500,000 | 19,650,000 | 261 | 956 | -0.338534589 | RCAN2 |
| 23 | 19,575,000 | 19,725,000 | 262 | 1595 | 0.621226407 | RCAN2 |
| 23 | 19,650,000 | 19,800,000 | 263 | 1573 | 0.948693867 | CYP39A1,RCAN2 |
| 23 | 19,725,000 | 19,875,000 | 264 | 1079 | 0.685802049 | CYP39A1,SLC25A27 |
| 23 | 19,800,000 | 19,950,000 | 265 | 1054 | -0.213716586 | CYP39A1,PLA2G7,SLC25A27,TDRD6 |
| 23 | 19,875,000 | 20,025,000 | 266 | 1001 | -2.456802697 | ANKRD66,MEP1A,PLA2G7,SLC25A27,TDRD6 |
| 23 | 19,950,000 | 20,100,000 | 267 | 950 | -2.486628972 | ANKRD66,GPR116,MEP1A |
| 23 | 20,025,000 | 20,175,000 | 268 | 1197 | 0.697807233 | GPR116,MEP1A |
| 23 | 20,100,000 | 20,250,000 | 269 | 1377 | 0.588989314 | GPR110,GPR116 |
| 23 | 20,175,000 | 20,325,000 | 270 | 1258 | -0.81026853 | GPR110 |
| 23 | 20,250,000 | 20,400,000 | 271 | 1136 | -1.600909883 | GPR110 |
| 23 | 20,325,000 | 20,475,000 | 272 | 1138 | -1.293182405 | TNFRSF21 |
| 23 | 20,400,000 | 20,550,000 | 273 | 1180 | -1.728511454 | TNFRSF21 |
| 23 | 20,475,000 | 20,625,000 | 274 | 1110 | -1.184321408 | CD2AP |
| 23 | 20,550,000 | 20,700,000 | 275 | 873 | -0.377293182 | CD2AP |
| 23 | 20,625,000 | 20,775,000 | 276 | 780 | 0.13988799 | CD2AP,GPR111,GPR115 |
| 23 | 20,700,000 | 20,850,000 | 277 | 898 | 0.678637653 | GPR111,GPR115,OPN5 |
| 23 | 20,775,000 | 20,925,000 | 278 | 779 | 0.811996521 | C23H6orf138,OPN5 |
| 23 | 20,850,000 | 21,000,000 | 279 | 1006 | 0.59039441 | C23H6orf138 |
| 23 | 20,925,000 | 21,075,000 | 280 | 1287 | -0.355295141 | C23H6orf138 |
| 23 | 21,000,000 | 21,150,000 | 281 | 953 | -0.752322617 | C23H6orf138 |
| 23 | 21,075,000 | 21,225,000 | 282 | 1189 | -0.716398692 | C23H6orf138 |
| 23 | 21,150,000 | 21,300,000 | 283 | 1717 | -0.803176738 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 21,225,000 | 21,375,000 | 284 | 1903 | 0.047230868 | |
| 23 | 21,300,000 | 21,450,000 | 285 | 2472 | 0.107394473 | |
| 23 | 21,375,000 | 21,525,000 | 286 | 2712 | 0.265506912 | |
| 23 | 21,450,000 | 21,600,000 | 287 | 2355 | 0.555203069 | |
| 23 | 21,525,000 | 21,675,000 | 288 | 1799 | 0.583700256 | |
| 23 | 21,600,000 | 21,750,000 | 289 | 1632 | 0.246431453 | |
| 23 | 21,675,000 | 21,825,000 | 290 | 1613 | 0.021827193 | |
| 23 | 21,750,000 | 21,900,000 | 291 | 1586 | -0.435582459 | |
| 23 | 21,825,000 | 21,975,000 | 292 | 1818 | -0.44326522 | MUT |
| 23 | 21,900,000 | 22,050,000 | 293 | 1328 | 0.17431295 | C23H6orf141,CENPQ,GLYATL3,MUT |
| 23 | 21,975,000 | 22,125,000 | 294 | 1255 | -0.001088332 | C23H6orf141,CENPQ,GLYATL3,MUT,RHAG |
| 23 | 22,050,000 | 22,200,000 | 295 | 1530 | 0.201859576 | CRISP2,CRISP3,RHAG |
| 23 | 22,125,000 | 22,275,000 | 296 | 1164 | -0.293690818 | CRISP1,CRISP2,CRISP3 |
| 23 | 22,200,000 | 22,350,000 | 297 | 1229 | -0.84827893 | CRISP1 |
| 23 | 22,275,000 | 22,425,000 | 298 | 1145 | -0.615054469 | DEFB112 |
| 23 | 22,350,000 | 22,500,000 | 299 | 696 | -0.590919087 | DEFB112 |
| 23 | 22,425,000 | 22,575,000 | 300 | 583 | -0.208572173 | |
| 23 | 22,500,000 | 22,650,000 | 301 | 491 | -0.453761007 | |
| 23 | 22,575,000 | 22,725,000 | 302 | 823 | -0.252452782 | |
| 23 | 22,650,000 | 22,800,000 | 303 | 1442 | -0.618535838 | |
| 23 | 22,725,000 | 22,875,000 | 304 | 1728 | -0.467081728 | |
| 23 | 22,800,000 | 22,950,000 | 305 | 1787 | 0.153813676 | |
| 23 | 22,875,000 | 23,025,000 | 306 | 1689 | 0.256913095 | TFAP2D |
| 23 | 22,950,000 | 23,100,000 | 307 | 1685 | -0.673735205 | TFAP2B,TFAP2D |
| 23 | 23,025,000 | 23,175,000 | 308 | 1616 | -0.829454325 | TFAP2B,TFAP2D |
| 23 | 23,100,000 | 23,250,000 | 309 | 1511 | -0.001047489 | TFAP2B |
| 23 | 23,175,000 | 23,325,000 | 310 | 1569 | 0.526848565 | |
| 23 | 23,250,000 | 23,400,000 | 311 | 1328 | 0.762245463 | |
| 23 | 23,325,000 | 23,475,000 | 312 | 1401 | -0.215921357 | |
| 23 | 23,400,000 | 23,550,000 | 313 | 1635 | 0.284907714 | |
| 23 | 23,475,000 | 23,625,000 | 314 | 1977 | 0.731628444 | |
| 23 | 23,550,000 | 23,700,000 | 315 | 2146 | 0.41222682 | |
| 23 | 23,625,000 | 23,775,000 | 316 | 2262 | 0.74016715 | |
| 23 | 23,700,000 | 23,850,000 | 317 | 2315 | 0.77880378 | PKHD1 |
| 23 | 23,775,000 | 23,925,000 | 318 | 2198 | 0.451951753 | PKHD1 |
| 23 | 23,850,000 | 24,000,000 | 319 | 2388 | 0.316056295 | PKHD1 |
| 23 | 23,925,000 | 24,075,000 | 320 | 2291 | 0.199661357 | PKHD1 |
| 23 | 24,000,000 | 24,150,000 | 321 | 2092 | 0.458879533 | PKHD1 |
| 23 | 24,075,000 | 24,225,000 | 322 | 2343 | 0.436976686 | PKHD1 |
| 23 | 24,150,000 | 24,300,000 | 323 | 2655 | 0.604640539 | PKHD1 |
| 23 | 24,225,000 | 24,375,000 | 324 | 2209 | 0.716513409 | IL17,PKHD1 |
| 23 | 24,300,000 | 24,450,000 | 325 | 1964 | -0.009185329 | IL17,IL17F,MCM3 |
| 23 | 24,375,000 | 24,525,000 | 326 | 2162 | -0.485071966 | IL17F,MCM3 |
| 23 | 24,450,000 | 24,600,000 | 327 | 2480 | -0.616946082 | EFHC1,MCM3,PAQR8 |
| 23 | 24,525,000 | 24,675,000 | 328 | 2944 | -0.629368067 | EFHC1,PAQR8,TRAM2 |
| 23 | 24,600,000 | 24,750,000 | 329 | 2760 | -0.399770307 | EFHC1,TRAM2 |
| 23 | 24,675,000 | 24,825,000 | 330 | 2503 | 0.037333427 | GSTA2,TMEM14A,TRAM2 |
| 23 | 24,750,000 | 24,900,000 | 331 | 2457 | -0.030025377 | GSTA1,GSTA2,GSTA5,TMEM14A,ENSBTAG00000025485 |
| 23 | 24,825,000 | 24,975,000 | 332 | 2573 | 0.151412699 | GSTA1,GSTA2,GSTA4,GSTA5,ENSBTAG00000025485,ENSBTAG00000032642 |
| 23 | 24,900,000 | 25,050,000 | 333 | 2770 | 0.130561352 | FBXO9,GSTA4,GSTA5,ICK,ENSBTAG00000032642 |
| 23 | 24,975,000 | 25,125,000 | 334 | 2913 | -0.015690847 | FBXO9,GCM-1,GSTA4,ICK |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 25,050,000 | 25,200,000 | 335 | 2585 | -0.222485066 | ELOVL5,FBXO9,GCM-1 |
| 23 | 25,125,000 | 25,275,000 | 336 | 2269 | -0.580563645 | ELOVL5 |
| 23 | 25,200,000 | 25,350,000 | 337 | 3230 | -0.344351892 | ELOVL5 |
| 23 | 25,275,000 | 25,425,000 | 338 | 2725 | -0.58692497 | BOLA-DQA2,BOLA-DQA5,BOLA-DQB,ENSBTAG00000003352 |
| 23 | 25,350,000 | 25,500,000 | 339 | 2741 | -1.029436382 | BOLA-DQA1,BOLA-DQA2,BOLA-DQA5,BOLA-DQB,BOLA-DRB3,ENSBTAG00000003352 |
| 23 | 25,425,000 | 25,575,000 | 340 | 3687 | -0.556074263 | BOLA-DQA1,BOLA-DRB3,ENSBTAG000000038397 |
| 23 | 25,500,000 | 25,650,000 | 341 | 3050 | -0.2344935 | BOLA-DRA,BTNL2,ENSBTAG00000007618,ENSBTAG000000034945,ENSBTAG000000038397 |
| 23 | 25,575,000 | 25,725,000 | 342 | 2545 | 0.121138134 | BOLA-DRA,BTNL2,ENSBTAG00000007618,ENSBTAG000000034945,ENSBTAG000000038397 |
| 23 | 25,650,000 | 25,800,000 | 343 | 2517 | 0.1993483 | ENSBTAG00000007618 |
| 23 | 25,725,000 | 25,875,000 | 344 | 3252 | -0.346475535 | BOLA-DQB |
| 23 | 25,800,000 | 25,950,000 | 345 | 3437 | -0.49068476 | BOLA-DQB |
| 23 | 25,875,000 | 26,025,000 | 346 | 2985 | 0.051637234 | ENSBTAG000000033979 |
| 23 | 25,950,000 | 26,100,000 | 347 | 3014 | 0.357583024 | ENSBTAG000000033979 |
| 23 | 26,025,000 | 26,175,000 | 348 | 2190 | 0.084288215 | |
| 23 | 26,100,000 | 26,250,000 | 349 | 1311 | -1.34616235 | |
| 23 | 26,175,000 | 26,325,000 | 350 | 2263 | 0.125213726 | |
| 23 | 26,250,000 | 26,400,000 | 351 | 2702 | -0.018459651 | ENSBTAG000000026163 |
| 23 | 26,325,000 | 26,475,000 | 352 | 2495 | -0.990625405 | ENSBTAG000000026163 |
| 23 | 26,400,000 | 26,550,000 | 353 | 2494 | -0.337955612 | |
| 23 | 26,475,000 | 26,625,000 | 354 | 2263 | -0.110338369 | |
| 23 | 26,550,000 | 26,700,000 | 355 | 2240 | -0.470904094 | ENSBTAG000000046116 |
| 23 | 26,625,000 | 26,775,000 | 356 | 2454 | -1.247399657 | C6orf10,ENSBTAG000000046116 |
| 23 | 26,700,000 | 26,850,000 | 357 | 2555 | -0.411161615 | C6orf10 |
| 23 | 26,775,000 | 26,925,000 | 358 | 2654 | 0.146445295 | C6orf10,ENSBTAG000000023563 |
| 23 | 26,850,000 | 27,000,000 | 359 | 3064 | 0.074725221 | NOTCH4,ENSBTAG000000023563,ENSBTAG000000048304 |
| 23 | 26,925,000 | 27,075,000 | 360 | 2349 | 0.204612157 | AGER,AGPAT1,ATF6B,EGFL8,FKBPL,NOTCH4,PBX2,PPT2,PRRT1,RNF5,ENSBTAG000000023563,ENSBTAG000000048304 |
| 23 | 27,000,000 | 27,150,000 | 361 | 1591 | 0.149625297 | AGER,AGPAT1,ATF6B,EGFL8,FKBPL,PBX2,PPT2,PRRT1,RNF5,TNXB,ENSBTAG000000047039 |
| 23 | 27,075,000 | 27,225,000 | 362 | 1618 | 0.49432597 | DOM3Z,NELFE,SKIV2L,STK19,TNXB,ENSBTAG00000001443,ENSBTAG00000006864,ENSBTAG000000037533,ENSBTAG000000047039 |
| 23 | 27,150,000 | 27,300,000 | 363 | 1664 | 0.541824434 | BAT8,C2,CFB,DOM3Z,NELFE,SKIV2L,SLC44A4,STK19,ZBTB12,ENSBTAG00000001443,ENSBTAG00000006864,ENSBTAG000000037533 |
| 23 | 27,225,000 | 27,375,000 | 364 | 1643 | -0.178761488 | BAT8,C2,CFB,HSPA1A,HSPA1L,LSM2,MGC151586,NELFE,NEU1,SLC44A4,VARS,VWA7,ZBTB12 |
| 23 | 27,300,000 | 27,450,000 | 365 | 1455 | -0.425195456 | ABHD16A,C6ORF25,CLIC1,CSNK2B,DDAH2,HSPA1A,HSPA1L,LSM2,LY6G5B,LY6G5C,LY6G6C,LY6G6E,MGC151586,MSH5,NEU1,SLC44A4,VARS,VWA7,ENSBTAG0000000580,ENSBTAG000000038955 |
| 23 | 27,375,000 | 27,525,000 | 366 | 1438 | -0.150827291 | ABHD16A,AIF1,APOM,BAG6,BAT4,C23H6ORF47,C6ORF25,CLIC1,CSNK2B,DDAH2,LY6G5B,LY6G5C,LY6G6C,LY6G6E,MGC151586,MSH5,NCR3,PRRC2A,ENSBTAG0000000580,ENSBTAG000000038955 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 27,450,000 | 27,600,000 | 367 | 1772 | 0.069195372 | AIF1,APOM,ATP6V1G2,BAG6,BAT4,C23H6ORF47,CSN K2B,DDX39B,LTA,LTB,MCCD1,NCR3,NFKBIL1,PRRC2A, TNF |
| 23 | 27,525,000 | 27,675,000 | 368 | 2155 | 0.294739782 | ATP6V1G2,BOLA,DDX39B,LTA,LTB,MCCD1,NFKBIL1,T NF,ENSBTAG00000008959,ENSBTAG00000010166,EN SBTAG000000031905 |
| 23 | 27,600,000 | 27,750,000 | 369 | 2556 | 0.443922894 | BOLA,ENSBTAG00000001476,ENSBTAG00000008959, ENSBTAG00000010166,ENSBTAG00000012208,ENSBT AG000000031905 |
| 23 | 27,675,000 | 27,825,000 | 370 | 2513 | 0.582003627 | C6orf15,CCHCR1,CDSN,POU5F1,PSORS1C2,TCF19,EN SBTAG00000001476,ENSBTAG00000010166,ENSBTAG 00000012208 |
| 23 | 27,750,000 | 27,900,000 | 371 | 2552 | 0.481040295 | BOLA,C6orf15,CCHCR1,CDSN,POU5F1,PSORS1C2,TCF 19,ENSBTAG00000007075 |
| 23 | 27,825,000 | 27,975,000 | 372 | 2247 | 0.359654123 | BOLA,GTF2H4,SFTA2,VAR2,ENSBTAG00000007075 |
| 23 | 27,900,000 | 28,050,000 | 373 | 1941 | 0.266504753 | DDR1,GTF2H4,SFTA2,VAR2 |
| 23 | 27,975,000 | 28,125,000 | 374 | 2002 | 0.031017398 | DDR1,FLOT1,IER3,MDC1,NRM,TUBB5 |
| 23 | 28,050,000 | 28,200,000 | 375 | 1654 | 0.103257526 | ABCF1,ATAT1,C6orf136,DHX16,FLOT1,IER3,KIAA1949, MDC1,MRPS18B,NRM,PPP1R10,TUBB5 |
| 23 | 28,125,000 | 28,275,000 | 376 | 1724 | -0.225295742 | ABCF1,ATAT1,C6orf136,DHX16,GNL1,KIAA1949,MDC1 ,MRPS18B,PPP1R10,PRR3,TRIM39-RPP21 |
| 23 | 28,200,000 | 28,350,000 | 377 | 2216 | -0.128586649 | ABCF1,GNL1,PRR3,TRIM39- RPP21,ENSBTAG00000005146,ENSBTAG00000038619 |
| 23 | 28,275,000 | 28,425,000 | 378 | 3346 | 0.169221446 | BOLA- NC,ENSBTAG00000005146,ENSBTAG00000038619 |
| 23 | 28,350,000 | 28,500,000 | 379 | 3862 | 0.063685483 | BOLA-NC,JSP.1 |
| 23 | 28,425,000 | 28,575,000 | 380 | 3696 | -0.06080436 | BOLA,JSP.1,TRIM26,ENSBTAG000000037421 |
| 23 | 28,500,000 | 28,650,000 | 381 | 3835 | -0.279967246 | BOLA,TRIM10,TRIM15,TRIM26,TRIM40,ENSBTAG0000 0037421 |
| 23 | 28,575,000 | 28,725,000 | 382 | 3355 | -0.564218291 | PPP1R11,TRIM10,TRIM15,TRIM26,TRIM31,TRIM40,ZN RD1 |
| 23 | 28,650,000 | 28,800,000 | 383 | 2540 | -0.798886988 | GABBR1,MOG,PPP1R11,TRIM31,ZFP57,ZNRD1 |
| 23 | 28,725,000 | 28,875,000 | 384 | 2577 | -0.296196851 | GABBR1,MOG,ZFP57,ENSBTAG000000025398,ENSBTA G00000031825 |
| 23 | 28,800,000 | 28,950,000 | 385 | 2589 | 0.371929272 | GABBR1,UBD,ENSBTAG00000003250,ENSBTAG00000 017227,ENSBTAG000000025398,ENSBTAG0000002724 5,ENSBTAG000000031825 |
| 23 | 28,875,000 | 29,025,000 | 386 | 2818 | 0.555119802 | UBD,ENSBTAG00000003250,ENSBTAG00000012956,E NSBTAG00000017227,ENSBTAG00000027245,ENSBT AG00000031832,ENSBTAG00000045586,ENSBTAG000 00046934,ENSBTAG00000047014,ENSBTAG00000047 644,ENSBTAG00000048194 |
| 23 | 28,950,000 | 29,100,000 | 387 | 3774 | 0.407995324 | ENSBTAG00000012956,ENSBTAG00000031832,ENSBT AG00000031835,ENSBTAG00000039390,ENSBTAG000 00045586,ENSBTAG00000046892,ENSBTAG00000046 934,ENSBTAG00000047014,ENSBTAG00000047644,E NSBTAG00000047763,ENSBTAG00000047829,ENSBT AG00000048019,ENSBTAG00000048194 |
| 23 | 29,025,000 | 29,175,000 | 388 | 3940 | 0.34972067 | OR12D2,OR12D3,ENSBTAG00000031835,ENSBTAG00 000039116,ENSBTAG00000039390,ENSBTAG0000003 9683,ENSBTAG00000046892,ENSBTAG00000047763,E NSBTAG00000047829,ENSBTAG00000048019 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 29,100,000 | 29,250,000 | 389 | 3369 | 0.408525954 | OR12D2,OR12D3,OR14J1,OR5V1,ENSBTAG00000031843,ENSBTAG00000039116,ENSBTAG00000039534,ENSBTAG00000039683,ENSBTAG00000039901 |
| 23 | 29,175,000 | 29,325,000 | 390 | 3330 | 0.441086427 | OR14J1,OR5V1,ENSBTAG00000031843,ENSBTAG0000038608,ENSBTAG00000039534,ENSBTAG00000039901,ENSBTAG00000046023,ENSBTAG00000046777,ENSBTAG00000047086 |
| 23 | 29,250,000 | 29,400,000 | 391 | 3478 | 0.239750151 | ENSBTAG0000000228,ENSBTAG00000031850,ENSBTAG00000037628,ENSBTAG00000038608,ENSBTAG0000046023,ENSBTAG00000046777,ENSBTAG00000047086 |
| 23 | 29,325,000 | 29,475,000 | 392 | 3115 | -0.224535707 | ENSBTAG0000000228,ENSBTAG0000006339,ENSBTAG00000027955,ENSBTAG00000031850,ENSBTAG0000037628,ENSBTAG00000040582 |
| 23 | 29,400,000 | 29,550,000 | 393 | 2820 | -0.721188952 | ENSBTAG0000006339,ENSBTAG00000027955,ENSBTAG00000038562,ENSBTAG00000038928,ENSBTAG0000040280,ENSBTAG00000040582,ENSBTAG00000047558 |
| 23 | 29,475,000 | 29,625,000 | 394 | 2877 | -0.562924544 | ENSBTAG00000037577,ENSBTAG00000038444,ENSBTAG00000038562,ENSBTAG00000038928,ENSBTAG00000039052,ENSBTAG00000040064,ENSBTAG00000040280,ENSBTAG00000047558,ENSBTAG00000047736 |
| 23 | 29,550,000 | 29,700,000 | 395 | 2661 | -0.189724288 | ENSBTAG00000015175,ENSBTAG00000037577,ENSBTAG00000038444,ENSBTAG00000039052,ENSBTAG00000040026,ENSBTAG00000040064,ENSBTAG00000040187,ENSBTAG00000040457,ENSBTAG00000047736 |
| 23 | 29,625,000 | 29,775,000 | 396 | 1795 | 0.384121011 | ENSBTAG0000000214,ENSBTAG00000015175,ENSBTAG00000040026,ENSBTAG00000040187,ENSBTAG00000040457 |
| 23 | 29,700,000 | 29,850,000 | 397 | 1743 | 0.015025103 | ENSBTAG0000000214,ENSBTAG00000047585 |
| 23 | 29,775,000 | 29,925,000 | 398 | 2269 | 0.050724799 | TRIM27,ZNF311,ENSBTAG00000047585 |
| 23 | 29,850,000 | 30,000,000 | 399 | 2042 | 0.284203168 | TRIM27,ZNF311 |
| 23 | 29,925,000 | 30,075,000 | 400 | 1998 | 0.161383638 | ENSBTAG00000038782 |
| 23 | 30,000,000 | 30,150,000 | 401 | 2319 | 0.5109582 | PGBD1,ZNF323,ZSCAN12,ENSBTAG00000038782 |
| 23 | 30,075,000 | 30,225,000 | 402 | 2371 | 0.344577835 | NKAPL,PGBD1,ZNF323,ZSCAN12,ZSCAN26,ZSCAN9,ENSBTAG00000003575 |
| 23 | 30,150,000 | 30,300,000 | 403 | 2368 | 0.667360392 | NKAPL,PGBD1,ZNF192,ZSCAN26,ZSCAN9,ENSBTAG0000002641,ENSBTAG00000003575 |
| 23 | 30,225,000 | 30,375,000 | 404 | 2633 | 0.704495038 | ZNF165,ZNF192,ZSCAN16,ENSBTAG00000002641,ENSBTAG00000013384 |
| 23 | 30,300,000 | 30,450,000 | 405 | 2329 | 0.536351644 | ZNF165,ZSCAN16,ENSBTAG00000013384,ENSBTAG0000038908,ENSBTAG00000039079 |
| 23 | 30,375,000 | 30,525,000 | 406 | 2417 | 0.887268529 | ENSBTAG00000031881,ENSBTAG00000038908,ENSBTAG00000038983,ENSBTAG00000039079,ENSBTAG0000040454,ENSBTAG00000040583 |
| 23 | 30,450,000 | 30,600,000 | 407 | 3170 | 0.897772709 | ENSBTAG00000005885,ENSBTAG00000031881,ENSBTAG00000038983,ENSBTAG00000040171,ENSBTAG0000040307,ENSBTAG00000040454,ENSBTAG00000040583 |
| 23 | 30,525,000 | 30,675,000 | 408 | 3184 | 0.641232664 | OR2B6,ENSBTAG00000005885,ENSBTAG00000038597,ENSBTAG00000039145,ENSBTAG00000040171,ENSBTAG00000040307 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 30,600,000 | 30,750,000 | 409 | 2518 | 0.641311244 | H2B,HIST1H2AD,HIST1H2AG,HIST1H3B,HIST1H3F,HIST1H4D,OR2B6,ENSBTAG00000024179,ENSBTAG0000038597,ENSBTAG00000039145,ENSBTAG00000039274 |
| 23 | 30,675,000 | 30,825,000 | 410 | 1974 | 0.733427467 | H2B,HIST1H2AD,HIST1H2AG,HIST1H2AJ,HIST1H3B,HIST1H3F,HIST1H4D,ENSBTAG00000024175,ENSBTAG0000024178,ENSBTAG00000024179,ENSBTAG0000039274 |
| 23 | 30,750,000 | 30,900,000 | 411 | 1817 | 0.609190858 | H2B,HIST1H2AG,HIST1H2AJ,ENSBTAG00000024175,ENSBTAG00000024178 |
| 23 | 30,825,000 | 30,975,000 | 412 | 1480 | 0.34639375 | ZNF184 |
| 23 | 30,900,000 | 31,050,000 | 413 | 1433 | 0.36269306 | POM121L2,ZNF184,ZNF391 |
| 23 | 30,975,000 | 31,125,000 | 414 | 1588 | 0.951742506 | HIST1H2AG,HIST1H2BJ,POM121L2,PRSS16,ZNF184,ZNF391,ENSBTAG00000038173,ENSBTAG00000046096 |
| 23 | 31,050,000 | 31,200,000 | 415 | 1733 | 1.063399616 | HIST1H2AG,HIST1H2BJ,PRSS16,ENSBTAG00000038173,ENSBTAG00000046096 |
| 23 | 31,125,000 | 31,275,000 | 416 | 1883 | 0.846606252 | HIST1H2BJ,MGC157324,ENSBTAG00000027547,ENSBTAG00000037597 |
| 23 | 31,200,000 | 31,350,000 | 417 | 1822 | 0.970855518 | ABT1,HMGN4,MGC157324,ENSBTAG00000010852,ENSBTAG00000027547,ENSBTAG00000037597 |
| 23 | 31,275,000 | 31,425,000 | 418 | 1861 | 1.004615003 | ABT1,BTN1A1,HMGN4,ENSBTAG00000010852 |
| 23 | 31,350,000 | 31,500,000 | 419 | 1890 | 0.437291386 | BTN1A1,H2B,HIST1H1D,HIST1H2AG,HIST1H3A,HIST1H3G,HIST2H4B,ENSBTAG00000010852,ENSBTAG00000031762,ENSBTAG00000031763,ENSBTAG00000031766 |
| 23 | 31,425,000 | 31,575,000 | 420 | 1852 | 0.512330148 | H2B,HIST1H1D,HIST1H1E,HIST1H2AG,HIST1H2BI,HIST1H3A,HIST1H3G,HIST2H4B,ENSBTAG00000031762,ENSBTAG00000031763,ENSBTAG00000031766,ENSBTAG00000031768,ENSBTAG00000040277 |
| 23 | 31,500,000 | 31,650,000 | 421 | 1795 | 0.930662513 | H2B,HFE,HIST1H1C,HIST1H1E,HIST1H2AC,HIST1H2AG,HIST1H2BB,HIST1H2BI,ENSBTAG00000025391,ENSBTAG00000031717,ENSBTAG00000031768,ENSBTAG00000040277 |
| 23 | 31,575,000 | 31,725,000 | 422 | 1799 | 0.879413598 | H2B,HFE,HIST1H1A,HIST1H1C,HIST1H2AC,HIST1H2BB,HIST1H3D,HIST1H3I,HIST2H4A,SLC17A2,TRIM38,ENSBTAG00000025391,ENSBTAG00000031717,ENSBTAG00000031719,ENSBTAG00000031738 |
| 23 | 31,650,000 | 31,800,000 | 423 | 1726 | 0.802051821 | HIST1H1A,HIST1H3D,HIST1H3I,HIST2H4A,SLC17A1,SLC17A2,SLC17A3,TRIM38,ENSBTAG00000031719,ENSBTAG00000031738 |
| 23 | 31,725,000 | 31,875,000 | 424 | 1608 | 0.263188535 | SLC17A1,SLC17A2,SLC17A3,SLC17A4 |
| 23 | 31,800,000 | 31,950,000 | 425 | 1994 | -0.062463283 | HIST1H2BA,SLC17A1,SLC17A4,ENSBTAG00000046992,ENSBTAG00000048235 |
| 23 | 31,875,000 | 32,025,000 | 426 | 2520 | -0.109019601 | HIST1H2BA,SCGN,ENSBTAG00000046992,ENSBTAG00000048235 |
| 23 | 31,950,000 | 32,100,000 | 427 | 2795 | 0.492284393 | LRRRC16A,SCGN |
| 23 | 32,025,000 | 32,175,000 | 428 | 2787 | 0.82517429 | LRRRC16A |
| 23 | 32,100,000 | 32,250,000 | 429 | 2477 | 0.587367301 | LRRRC16A |
| 23 | 32,175,000 | 32,325,000 | 430 | 2079 | 0.418487605 | LRRRC16A,ENSBTAG00000038783 |
| 23 | 32,250,000 | 32,400,000 | 431 | 1642 | 0.233405232 | LRRRC16A,ENSBTAG00000038783 |
| 23 | 32,325,000 | 32,475,000 | 432 | 1650 | -0.773222176 | LRRRC16A,ENSBTAG00000003892 |
| 23 | 32,400,000 | 32,550,000 | 433 | 1846 | -0.309590331 | ENSBTAG00000003892 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 32,475,000 | 32,625,000 | 434 | 1929 | 0.664302139 | ENSBTAG00000003892 |
| 23 | 32,550,000 | 32,700,000 | 435 | 1790 | 0.592341855 | FAM65B |
| 23 | 32,625,000 | 32,775,000 | 436 | 1648 | 0.289572822 | FAM65B |
| 23 | 32,700,000 | 32,850,000 | 437 | 1370 | -0.477553589 | C23H6ORF62,FAM65B,GMNN,TDP2,THEM2 |
| 23 | 32,775,000 | 32,925,000 | 438 | 1146 | 0.267466883 | C23H6ORF62,GMNN,KIAA0319,TDP2,THEM2 |
| 23 | 32,850,000 | 33,000,000 | 439 | 1597 | 0.968581894 | ALDH5A1,GPLD1,KIAA0319,TDP2 |
| 23 | 32,925,000 | 33,075,000 | 440 | 1683 | 0.871536202 | ALDH5A1,GPLD1,KIAA0319,MRS2 |
| 23 | 33,000,000 | 33,150,000 | 441 | 1466 | 0.315562516 | DCDC2,GPLD1,MRS2 |
| 23 | 33,075,000 | 33,225,000 | 442 | 1451 | 0.054251958 | DCDC2,MRS2 |
| 23 | 33,150,000 | 33,300,000 | 443 | 1383 | -0.22230923 | DCDC2,NRSN1 |
| 23 | 33,225,000 | 33,375,000 | 444 | 1163 | -1.125403195 | DCDC2,NRSN1 |
| 23 | 33,300,000 | 33,450,000 | 445 | 1128 | -0.694129839 | |
| 23 | 33,375,000 | 33,525,000 | 446 | 1287 | -0.027257237 | |
| 23 | 33,450,000 | 33,600,000 | 447 | 1064 | -0.203983648 | |
| 23 | 33,525,000 | 33,675,000 | 448 | 1048 | 0.295524507 | |
| 23 | 33,600,000 | 33,750,000 | 449 | 1195 | 0.659041397 | |
| 23 | 33,675,000 | 33,825,000 | 450 | 1333 | 0.924320508 | |
| 23 | 33,750,000 | 33,900,000 | 451 | 1368 | 1.008516023 | |
| 23 | 33,825,000 | 33,975,000 | 452 | 1039 | 0.858155727 | |
| 23 | 33,900,000 | 34,050,000 | 453 | 951 | 0.656935966 | |
| 23 | 33,975,000 | 34,125,000 | 454 | 1154 | 0.193461857 | |
| 23 | 34,050,000 | 34,200,000 | 455 | 922 | 0.322839268 | |
| 23 | 34,125,000 | 34,275,000 | 456 | 915 | 0.83110055 | |
| 23 | 34,200,000 | 34,350,000 | 457 | 1214 | 0.772230498 | |
| 23 | 34,275,000 | 34,425,000 | 458 | 1124 | 0.900433676 | PRP5 |
| 23 | 34,350,000 | 34,500,000 | 459 | 1191 | 0.978914136 | PRP5,PRP6,PRP8 |
| 23 | 34,425,000 | 34,575,000 | 460 | 1303 | 0.87451071 | PRP1,PRP6,PRP8 |
| 23 | 34,500,000 | 34,650,000 | 461 | 1037 | 0.535980148 | PRP1,ENSBTAG00000038718,ENSBTAG00000047671 |
| 23 | 34,575,000 | 34,725,000 | 462 | 788 | 0.240282143 | PRP14,PRP9,ENSBTAG00000036106,ENSBTAG00000038718,ENSBTAG00000047671 |
| 23 | 34,650,000 | 34,800,000 | 463 | 764 | 0.510693603 | PRP14,PRP9,ENSBTAG00000036106,ENSBTAG00000047671 |
| 23 | 34,725,000 | 34,875,000 | 464 | 771 | 0.71944788 | PRP7,PRP9,ENSBTAG00000031640 |
| 23 | 34,800,000 | 34,950,000 | 465 | 998 | -0.232363433 | PRP7,ENSBTAG00000031640 |
| 23 | 34,875,000 | 35,025,000 | 466 | 812 | -0.806631682 | ENSBTAG00000040136 |
| 23 | 34,950,000 | 35,100,000 | 467 | 630 | -1.105532991 | CSH1,ENSBTAG00000040136 |
| 23 | 35,025,000 | 35,175,000 | 468 | 661 | -0.667222356 | CSH1,PRL |
| 23 | 35,100,000 | 35,250,000 | 469 | 794 | 0.786431332 | PRL |
| 23 | 35,175,000 | 35,325,000 | 470 | 1303 | 0.279534578 | |
| 23 | 35,250,000 | 35,400,000 | 471 | 1448 | -0.15794676 | |
| 23 | 35,325,000 | 35,475,000 | 472 | 918 | -0.760305541 | HDGFL1 |
| 23 | 35,400,000 | 35,550,000 | 473 | 600 | -1.090626151 | HDGFL1 |
| 23 | 35,475,000 | 35,625,000 | 474 | 863 | -0.495533133 | |
| 23 | 35,550,000 | 35,700,000 | 475 | 738 | -0.44818804 | |
| 23 | 35,625,000 | 35,775,000 | 476 | 361 | 0.003142701 | |
| 23 | 35,700,000 | 35,850,000 | 477 | 509 | -0.201058788 | |
| 23 | 35,775,000 | 35,925,000 | 478 | 763 | -0.309277846 | |
| 23 | 35,850,000 | 36,000,000 | 479 | 796 | -0.172548224 | |
| 23 | 35,925,000 | 36,075,000 | 480 | 634 | -0.324441195 | |
| 23 | 36,000,000 | 36,150,000 | 481 | 517 | -0.699356855 | |
| 23 | 36,075,000 | 36,225,000 | 482 | 469 | -0.143180341 | |
| 23 | 36,150,000 | 36,300,000 | 483 | 534 | 0.711598504 | SOX4 |
| 23 | 36,225,000 | 36,375,000 | 484 | 852 | 0.773856578 | SOX4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-----------------------|
| 23 | 36,300,000 | 36,450,000 | 485 | 899 | 0.508027059 | |
| 23 | 36,375,000 | 36,525,000 | 486 | 850 | -0.244495008 | |
| 23 | 36,450,000 | 36,600,000 | 487 | 953 | -0.851943684 | |
| 23 | 36,525,000 | 36,675,000 | 488 | 1071 | -0.169862195 | CDKAL1 |
| 23 | 36,600,000 | 36,750,000 | 489 | 969 | 0.828451109 | CDKAL1 |
| 23 | 36,675,000 | 36,825,000 | 490 | 1123 | 0.512182589 | CDKAL1 |
| 23 | 36,750,000 | 36,900,000 | 491 | 1056 | -0.236975894 | CDKAL1 |
| 23 | 36,825,000 | 36,975,000 | 492 | 713 | -0.82118437 | CDKAL1 |
| 23 | 36,900,000 | 37,050,000 | 493 | 852 | 0.484608169 | CDKAL1 |
| 23 | 36,975,000 | 37,125,000 | 494 | 1041 | -0.463614092 | CDKAL1 |
| 23 | 37,050,000 | 37,200,000 | 495 | 1182 | -0.347036186 | CDKAL1 |
| 23 | 37,125,000 | 37,275,000 | 496 | 1134 | 0.938511763 | CDKAL1,E2F3 |
| 23 | 37,200,000 | 37,350,000 | 497 | 1141 | -0.228326675 | CDKAL1,E2F3 |
| 23 | 37,275,000 | 37,425,000 | 498 | 1138 | -0.494207314 | E2F3 |
| 23 | 37,350,000 | 37,500,000 | 499 | 831 | -0.21694094 | MBOAT1 |
| 23 | 37,425,000 | 37,575,000 | 500 | 895 | 0.184819528 | MBOAT1 |
| 23 | 37,500,000 | 37,650,000 | 501 | 1227 | 0.375260598 | MBOAT1 |
| 23 | 37,575,000 | 37,725,000 | 502 | 1050 | 0.145152694 | MBOAT1 |
| 23 | 37,650,000 | 37,800,000 | 503 | 573 | -0.282925357 | |
| 23 | 37,725,000 | 37,875,000 | 504 | 461 | 0.70335282 | |
| 23 | 37,800,000 | 37,950,000 | 505 | 541 | -0.120176775 | |
| 23 | 37,875,000 | 38,025,000 | 506 | 682 | -0.641902594 | |
| 23 | 37,950,000 | 38,100,000 | 507 | 858 | 0.34736599 | |
| 23 | 38,025,000 | 38,175,000 | 508 | 943 | 1.055811247 | |
| 23 | 38,100,000 | 38,250,000 | 509 | 1197 | 1.112116602 | |
| 23 | 38,175,000 | 38,325,000 | 510 | 1239 | 1.153269931 | |
| 23 | 38,250,000 | 38,400,000 | 511 | 1502 | 1.311946322 | |
| 23 | 38,325,000 | 38,475,000 | 512 | 1822 | 1.236682008 | |
| 23 | 38,400,000 | 38,550,000 | 513 | 1554 | 0.872583984 | |
| 23 | 38,475,000 | 38,625,000 | 514 | 1237 | -0.912281836 | |
| 23 | 38,550,000 | 38,700,000 | 515 | 1261 | -0.83109071 | |
| 23 | 38,625,000 | 38,775,000 | 516 | 1262 | 0.615439202 | |
| 23 | 38,700,000 | 38,850,000 | 517 | 1054 | 0.471850687 | |
| 23 | 38,775,000 | 38,925,000 | 518 | 1066 | -1.020077444 | |
| 23 | 38,850,000 | 39,000,000 | 519 | 982 | -1.710933058 | RNF144B |
| 23 | 38,925,000 | 39,075,000 | 520 | 821 | -1.181609753 | RNF144B |
| 23 | 39,000,000 | 39,150,000 | 521 | 680 | -0.578779497 | DEK,RNF144B |
| 23 | 39,075,000 | 39,225,000 | 522 | 508 | 0.411098438 | DEK,KDM1B,TPMT |
| 23 | 39,150,000 | 39,300,000 | 523 | 705 | 0.822638046 | DEK,KDM1B,NHLRC1,TPMT |
| 23 | 39,225,000 | 39,375,000 | 524 | 1004 | 0.449514317 | NHLRC1,TPMT |
| 23 | 39,300,000 | 39,450,000 | 525 | 1102 | 0.235828979 | KIF13A |
| 23 | 39,375,000 | 39,525,000 | 526 | 885 | 0.183666984 | KIF13A |
| 23 | 39,450,000 | 39,600,000 | 527 | 587 | -0.831991555 | KIF13A,NUP153 |
| 23 | 39,525,000 | 39,675,000 | 528 | 522 | -1.254582274 | CAP2,FAM8A1,NUP153 |
| 23 | 39,600,000 | 39,750,000 | 529 | 670 | -0.166343662 | CAP2,FAM8A1,NUP153 |
| 23 | 39,675,000 | 39,825,000 | 530 | 589 | 0.370131947 | CAP2 |
| 23 | 39,750,000 | 39,900,000 | 531 | 574 | -0.523563644 | CAP2,RBM24 |
| 23 | 39,825,000 | 39,975,000 | 532 | 730 | -2.016493732 | RBM24,STMND1 |
| 23 | 39,900,000 | 40,050,000 | 533 | 565 | -2.618118559 | STMND1 |
| 23 | 39,975,000 | 40,125,000 | 534 | 672 | -1.657350559 | |
| 23 | 40,050,000 | 40,200,000 | 535 | 780 | -0.146562038 | |
| 23 | 40,125,000 | 40,275,000 | 536 | 558 | 1.190348742 | |
| 23 | 40,200,000 | 40,350,000 | 537 | 528 | 0.000492648 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 23 | 40,275,000 | 40,425,000 | 538 | 712 | -0.481289144 | |
| 23 | 40,350,000 | 40,500,000 | 539 | 992 | 0.287602385 | |
| 23 | 40,425,000 | 40,575,000 | 540 | 901 | 0.331744438 | |
| 23 | 40,500,000 | 40,650,000 | 541 | 674 | -0.154605504 | ATXN1,GMPR,ENSBTAG00000019672 |
| 23 | 40,575,000 | 40,725,000 | 542 | 979 | -0.279318103 | ATXN1,GMPR,ENSBTAG00000019672 |
| 23 | 40,650,000 | 40,800,000 | 543 | 1010 | -0.667557235 | GMPR,MYLIP |
| 23 | 40,725,000 | 40,875,000 | 544 | 932 | -0.245896649 | MYLIP |
| 23 | 40,800,000 | 40,950,000 | 545 | 1217 | 0.723930122 | |
| 23 | 40,875,000 | 41,025,000 | 546 | 1518 | 0.541970515 | |
| 23 | 40,950,000 | 41,100,000 | 547 | 1544 | 0.176656929 | DTNBP1 |
| 23 | 41,025,000 | 41,175,000 | 548 | 1310 | 0.147411799 | DTNBP1,JARID2 |
| 23 | 41,100,000 | 41,250,000 | 549 | 876 | 0.116119902 | DTNBP1,JARID2 |
| 23 | 41,175,000 | 41,325,000 | 550 | 416 | 0.616255226 | JARID2 |
| 23 | 41,250,000 | 41,400,000 | 551 | 308 | -0.145634537 | JARID2 |
| 23 | 41,325,000 | 41,475,000 | 552 | 504 | 0.327461822 | |
| 23 | 41,400,000 | 41,550,000 | 553 | 870 | 0.609047793 | |
| 23 | 41,475,000 | 41,625,000 | 554 | 839 | 0.664269252 | |
| 23 | 41,550,000 | 41,700,000 | 555 | 521 | 1.00025151 | |
| 23 | 41,625,000 | 41,775,000 | 556 | 464 | 0.909390253 | |
| 23 | 41,700,000 | 41,850,000 | 557 | 575 | 0.770262639 | |
| 23 | 41,775,000 | 41,925,000 | 558 | 652 | 0.520280715 | |
| 23 | 41,850,000 | 42,000,000 | 559 | 818 | -0.036307942 | |
| 23 | 41,925,000 | 42,075,000 | 560 | 860 | 0.00732174 | |
| 23 | 42,000,000 | 42,150,000 | 561 | 1009 | 0.209559644 | |
| 23 | 42,075,000 | 42,225,000 | 562 | 1117 | 0.496593913 | |
| 23 | 42,150,000 | 42,300,000 | 563 | 725 | 0.59569292 | |
| 23 | 42,225,000 | 42,375,000 | 564 | 734 | 0.62024238 | CD83 |
| 23 | 42,300,000 | 42,450,000 | 565 | 1251 | 0.80913238 | CD83 |
| 23 | 42,375,000 | 42,525,000 | 566 | 1064 | -0.595063674 | RNF182 |
| 23 | 42,450,000 | 42,600,000 | 567 | 782 | -2.414477351 | CCDC90A,RNF182 |
| 23 | 42,525,000 | 42,675,000 | 568 | 1167 | -0.531600892 | CCDC90A |
| 23 | 42,600,000 | 42,750,000 | 569 | 1291 | 0.246920072 | RANBP9 |
| 23 | 42,675,000 | 42,825,000 | 570 | 1210 | 0.050931973 | NOL7,RANBP9,SIRT5 |
| 23 | 42,750,000 | 42,900,000 | 571 | 1067 | 0.250228077 | NOL7,RANBP9,SIRT5 |
| 23 | 42,825,000 | 42,975,000 | 572 | 666 | 0.127373322 | SIRT5 |
| 23 | 42,900,000 | 43,050,000 | 573 | 492 | -0.766567907 | TBC1D7 |
| 23 | 42,975,000 | 43,125,000 | 574 | 848 | -0.253945962 | PHACTR1,TBC1D7 |
| 23 | 43,050,000 | 43,200,000 | 575 | 1519 | 0.043122289 | PHACTR1 |
| 23 | 43,125,000 | 43,275,000 | 576 | 1744 | 0.244370653 | PHACTR1 |
| 23 | 43,200,000 | 43,350,000 | 577 | 1454 | 0.564256677 | PHACTR1 |
| 23 | 43,275,000 | 43,425,000 | 578 | 1323 | 0.858651314 | PHACTR1 |
| 23 | 43,350,000 | 43,500,000 | 579 | 1776 | 0.765565365 | PHACTR1 |
| 23 | 43,425,000 | 43,575,000 | 580 | 1980 | 0.345567653 | PHACTR1 |
| 23 | 43,500,000 | 43,650,000 | 581 | 1331 | 0.177480975 | PHACTR1 |
| 23 | 43,575,000 | 43,725,000 | 582 | 1072 | 0.380590569 | PHACTR1 |
| 23 | 43,650,000 | 43,800,000 | 583 | 1223 | 0.374622143 | |
| 23 | 43,725,000 | 43,875,000 | 584 | 1022 | -0.06243238 | |
| 23 | 43,800,000 | 43,950,000 | 585 | 1003 | -0.208591937 | |
| 23 | 43,875,000 | 44,025,000 | 586 | 1060 | 0.118456557 | EDN1 |
| 23 | 43,950,000 | 44,100,000 | 587 | 974 | 0.001264234 | EDN1 |
| 23 | 44,025,000 | 44,175,000 | 588 | 1158 | 0.694555813 | HIVEP1 |
| 23 | 44,100,000 | 44,250,000 | 589 | 1209 | 1.06125775 | HIVEP1 |
| 23 | 44,175,000 | 44,325,000 | 590 | 1042 | 0.78975078 | HIVEP1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 44,250,000 | 44,400,000 | 591 | 1018 | 0.272688615 | |
| 23 | 44,325,000 | 44,475,000 | 592 | 1171 | -0.380062588 | C23H6ORF105 |
| 23 | 44,400,000 | 44,550,000 | 593 | 1209 | -0.647393653 | C23H6ORF105 |
| 23 | 44,475,000 | 44,625,000 | 594 | 1419 | -0.188098782 | C23H6ORF105 |
| 23 | 44,550,000 | 44,700,000 | 595 | 1556 | 0.565108505 | TMEM170B |
| 23 | 44,625,000 | 44,775,000 | 596 | 1381 | 0.99666051 | TMEM170B |
| 23 | 44,700,000 | 44,850,000 | 597 | 1106 | 0.664203964 | |
| 23 | 44,775,000 | 44,925,000 | 598 | 741 | 0.366341832 | NEDD9 |
| 23 | 44,850,000 | 45,000,000 | 599 | 746 | 0.042982937 | NEDD9 |
| 23 | 44,925,000 | 45,075,000 | 600 | 975 | 0.201679624 | NEDD9,SMIM13 |
| 23 | 45,000,000 | 45,150,000 | 601 | 1244 | 0.054738882 | ELOVL2,SMIM13,SYCP2L |
| 23 | 45,075,000 | 45,225,000 | 602 | 1086 | -0.225014117 | ELOVL2,GCM2,MAK,SYCP2L |
| 23 | 45,150,000 | 45,300,000 | 603 | 748 | -0.129416397 | GCM2,MAK,PAK1IP1,SYCP2L,TMEM14C |
| 23 | 45,225,000 | 45,375,000 | 604 | 929 | 0.053817586 | GCNT2,MAK,PAK1IP1,TMEM14C |
| 23 | 45,300,000 | 45,450,000 | 605 | 1026 | 0.330483647 | GCNT2 |
| 23 | 45,375,000 | 45,525,000 | 606 | 696 | 0.226678132 | TFAP2A |
| 23 | 45,450,000 | 45,600,000 | 607 | 560 | -0.131920925 | TFAP2A |
| 23 | 45,525,000 | 45,675,000 | 608 | 611 | 0.30828933 | |
| 23 | 45,600,000 | 45,750,000 | 609 | 670 | 0.599023674 | |
| 23 | 45,675,000 | 45,825,000 | 610 | 1274 | 0.434320533 | |
| 23 | 45,750,000 | 45,900,000 | 611 | 1353 | 0.720152442 | OFCC1 |
| 23 | 45,825,000 | 45,975,000 | 612 | 756 | 0.999256717 | OFCC1 |
| 23 | 45,900,000 | 46,050,000 | 613 | 800 | 0.320284703 | |
| 23 | 45,975,000 | 46,125,000 | 614 | 854 | 0.393679907 | |
| 23 | 46,050,000 | 46,200,000 | 615 | 887 | 0.213037151 | |
| 23 | 46,125,000 | 46,275,000 | 616 | 987 | 0.004506896 | |
| 23 | 46,200,000 | 46,350,000 | 617 | 1079 | 0.407838224 | |
| 23 | 46,275,000 | 46,425,000 | 618 | 1412 | 0.949222767 | |
| 23 | 46,350,000 | 46,500,000 | 619 | 1524 | 1.040527178 | |
| 23 | 46,425,000 | 46,575,000 | 620 | 1634 | 0.699644647 | |
| 23 | 46,500,000 | 46,650,000 | 621 | 1765 | 0.64454332 | |
| 23 | 46,575,000 | 46,725,000 | 622 | 1754 | 0.663995085 | |
| 23 | 46,650,000 | 46,800,000 | 623 | 1452 | 0.415975954 | |
| 23 | 46,725,000 | 46,875,000 | 624 | 1144 | 0.139733038 | |
| 23 | 46,800,000 | 46,950,000 | 625 | 1002 | -0.730688947 | |
| 23 | 46,875,000 | 47,025,000 | 626 | 1049 | 0.040756713 | SLC35B3 |
| 23 | 46,950,000 | 47,100,000 | 627 | 930 | 0.258206582 | SLC35B3 |
| 23 | 47,025,000 | 47,175,000 | 628 | 654 | -0.53172889 | SLC35B3 |
| 23 | 47,100,000 | 47,250,000 | 629 | 738 | 0.379333207 | BLOC1S5,EEF1E1 |
| 23 | 47,175,000 | 47,325,000 | 630 | 744 | 0.790321613 | BLOC1S5,EEF1E1 |
| 23 | 47,250,000 | 47,400,000 | 631 | 579 | 0.838780459 | BLOC1S5,BMP6,TXNDC5,ENSBTAG00000046839 |
| 23 | 47,325,000 | 47,475,000 | 632 | 629 | 0.616271163 | BMP6,TXNDC5,ENSBTAG00000046839 |
| 23 | 47,400,000 | 47,550,000 | 633 | 528 | 0.42919825 | BMP6 |
| 23 | 47,475,000 | 47,625,000 | 634 | 528 | 0.603254418 | BMP6,ENSBTAG00000008517 |
| 23 | 47,550,000 | 47,700,000 | 635 | 882 | 0.473823051 | DSP,SNRNP48,ENSBTAG00000008517 |
| 23 | 47,625,000 | 47,775,000 | 636 | 1512 | 0.259567462 | DSP,SNRNP48 |
| 23 | 47,700,000 | 47,850,000 | 637 | 1516 | 0.130900661 | CAGE1,DSP,RIOK1 |
| 23 | 47,775,000 | 47,925,000 | 638 | 834 | -0.005544968 | CAGE1,RIOK1,RREB1,SSR1 |
| 23 | 47,850,000 | 48,000,000 | 639 | 552 | 0.162012242 | RREB1,SSR1 |
| 23 | 47,925,000 | 48,075,000 | 640 | 516 | 0.227966858 | RREB1 |
| 23 | 48,000,000 | 48,150,000 | 641 | 830 | -0.103399277 | |
| 23 | 48,075,000 | 48,225,000 | 642 | 931 | 0.113944636 | |
| 23 | 48,150,000 | 48,300,000 | 643 | 797 | 0.116470926 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 23 | 48,225,000 | 48,375,000 | 644 | 720 | -0.397896751 | |
| 23 | 48,300,000 | 48,450,000 | 645 | 816 | 0.412907354 | LY86 |
| 23 | 48,375,000 | 48,525,000 | 646 | 905 | 0.543721884 | LY86 |
| 23 | 48,450,000 | 48,600,000 | 647 | 939 | -0.703285928 | |
| 23 | 48,525,000 | 48,675,000 | 648 | 1112 | -0.787304922 | F13A1 |
| 23 | 48,600,000 | 48,750,000 | 649 | 1410 | -1.015974791 | F13A1 |
| 23 | 48,675,000 | 48,825,000 | 650 | 1542 | -0.528235049 | F13A1 |
| 23 | 48,750,000 | 48,900,000 | 651 | 1116 | 0.739937438 | F13A1,NRN1 |
| 23 | 48,825,000 | 48,975,000 | 652 | 1566 | 0.983473788 | FARS2,NRN1,ENSBTAG00000010640 |
| 23 | 48,900,000 | 49,050,000 | 653 | 1601 | 0.950834983 | FARS2,ENSBTAG00000010640 |
| 23 | 48,975,000 | 49,125,000 | 654 | 1321 | 0.994944094 | FARS2 |
| 23 | 49,050,000 | 49,200,000 | 655 | 1655 | 1.172914327 | FARS2 |
| 23 | 49,125,000 | 49,275,000 | 656 | 1122 | 1.097927136 | FARS2 |
| 23 | 49,200,000 | 49,350,000 | 657 | 1090 | -0.204132021 | FARS2,LYRM4 |
| 23 | 49,275,000 | 49,425,000 | 658 | 1157 | -0.87804643 | LYRM4,PPP1R3G,RPP40 |
| 23 | 49,350,000 | 49,500,000 | 659 | 829 | -0.36046148 | CDYL,LYRM4,PPP1R3G,RPP40 |
| 23 | 49,425,000 | 49,575,000 | 660 | 1110 | 0.235334661 | CDYL |
| 23 | 49,500,000 | 49,650,000 | 661 | 1207 | 0.419580593 | CDYL |
| 23 | 49,575,000 | 49,725,000 | 662 | 986 | 0.481494859 | CDYL |
| 23 | 49,650,000 | 49,800,000 | 663 | 897 | 0.451203185 | |
| 23 | 49,725,000 | 49,875,000 | 664 | 934 | 0.545181359 | |
| 23 | 49,800,000 | 49,950,000 | 665 | 897 | 0.662724773 | C6orf201,FAM217A,PECI |
| 23 | 49,875,000 | 50,025,000 | 666 | 608 | 0.567939887 | C6orf201,FAM217A,PECI,PRPF4B |
| 23 | 49,950,000 | 50,100,000 | 667 | 816 | 0.403363434 | PRPF4B,PXDC1 |
| 23 | 50,025,000 | 50,175,000 | 668 | 820 | -0.205528692 | PXDC1 |
| 23 | 50,100,000 | 50,250,000 | 669 | 672 | -1.679669542 | SLC22A23 |
| 23 | 50,175,000 | 50,325,000 | 670 | 896 | -0.240796472 | SLC22A23 |
| 23 | 50,250,000 | 50,400,000 | 671 | 782 | 0.428176591 | BPHL,PSMG4,SLC22A23,TUBB2B |
| 23 | 50,325,000 | 50,475,000 | 672 | 529 | -0.55290847 | BPHL,PSMG4,RIPK1,TUBB2B |
| 23 | 50,400,000 | 50,550,000 | 673 | 568 | 0.365031594 | BPHL,NQO2,RIPK1,ENSBTAG00000017483 |
| 23 | 50,475,000 | 50,625,000 | 674 | 832 | 0.659821483 | NQO2,ENSBTAG00000017483,ENSBTAG00000017949 ,ENSBTAG00000025280 |
| 23 | 50,550,000 | 50,700,000 | 675 | 771 | 0.403063012 | SERPINB1,SERPINB9,ENSBTAG00000017949,ENSBTAG 00000025280 |
| 23 | 50,625,000 | 50,775,000 | 676 | 597 | -0.116707012 | MYLK4,SERPINB1,SERPINB9,WRNIP1 |
| 23 | 50,700,000 | 50,850,000 | 677 | 717 | 0.030437936 | MYLK4,WRNIP1 |
| 23 | 50,775,000 | 50,925,000 | 678 | 819 | -0.128821673 | MYLK4 |
| 23 | 50,850,000 | 51,000,000 | 679 | 775 | -0.17000259 | |
| 23 | 50,925,000 | 51,075,000 | 680 | 724 | 0.278094147 | |
| 23 | 51,000,000 | 51,150,000 | 681 | 607 | 0.461288646 | GMDS |
| 23 | 51,075,000 | 51,225,000 | 682 | 509 | 0.32395877 | GMDS |
| 23 | 51,150,000 | 51,300,000 | 683 | 528 | 0.77032272 | GMDS |
| 23 | 51,225,000 | 51,375,000 | 684 | 578 | 0.623814137 | GMDS |
| 23 | 51,300,000 | 51,450,000 | 685 | 795 | -0.316831326 | GMDS |
| 23 | 51,375,000 | 51,525,000 | 686 | 886 | 0.158024828 | GMDS |
| 23 | 51,450,000 | 51,600,000 | 687 | 807 | 0.540926846 | FOXF2,GMDS |
| 23 | 51,525,000 | 51,675,000 | 688 | 901 | 0.085054826 | FOXF2 |
| 23 | 51,600,000 | 51,750,000 | 689 | 1370 | 0.236384455 | |
| 23 | 51,675,000 | 51,825,000 | 690 | 1383 | 0.316117356 | |
| 23 | 51,750,000 | 51,900,000 | 691 | 951 | -0.342188465 | |
| 23 | 51,825,000 | 51,975,000 | 692 | 737 | -0.506683203 | EXOC2 |
| 23 | 51,900,000 | 52,050,000 | 693 | 613 | -0.102275743 | EXOC2 |
| 23 | 51,975,000 | 52,125,000 | 694 | 833 | 0.349284579 | DUSP22,EXOC2,IRF4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 23 | 52,050,000 | 52,200,000 | 695 | 932 | 0.614193031 | DUSP22,IRF4 |
| 23 | 52,125,000 | 52,275,000 | 696 | 906 | -0.230553007 | DUSP22 |
| 23 | 52,200,000 | 52,350,000 | 697 | 922 | -0.695119357 | |
| 23 | 52,275,000 | 52,425,000 | 698 | 829 | -0.302973306 | ENSBTAG00000047812 |
| 23 | 52,350,000 | 52,500,000 | 699 | 711 | 0.13319904 | ENSBTAG00000047485,ENSBTAG00000047516,ENSBTAG00000047812 |
| 23 | 52,425,000 | 52,530,062 | 700 | 429 | 0.246302755 | ENSBTAG00000047485,ENSBTAG00000047516 |
| 24 | 0 | 150,000 | 1 | 408 | -3.61964778 | |
| 24 | 75,000 | 225,000 | 2 | 551 | -3.669767163 | ENSBTAG00000013809 |
| 24 | 150,000 | 300,000 | 3 | 411 | -2.789894544 | ENSBTAG00000013809 |
| 24 | 225,000 | 375,000 | 4 | 521 | -1.433644973 | ENSBTAG00000045511 |
| 24 | 300,000 | 450,000 | 5 | 1100 | 1.091320696 | ENSBTAG00000045511 |
| 24 | 375,000 | 525,000 | 6 | 1248 | 1.141370721 | ENSBTAG00000046170,ENSBTAG00000047013 |
| 24 | 450,000 | 600,000 | 7 | 1040 | 0.618232026 | PARD6G,ENSBTAG00000046170,ENSBTAG00000047013 |
| 24 | 525,000 | 675,000 | 8 | 978 | 0.096292846 | PARD6G |
| 24 | 600,000 | 750,000 | 9 | 735 | -0.572000297 | ADNP2,PARD6G,RBFA,ENSBTAG00000036298 |
| 24 | 675,000 | 825,000 | 10 | 678 | -0.593382355 | ADNP2,PQLC1,RBFA,TXNL4A,ENSBTAG00000036298 |
| 24 | 750,000 | 900,000 | 11 | 719 | -0.018664721 | KCNG2,PQLC1,TXNL4A,ENSBTAG00000036298 |
| 24 | 825,000 | 975,000 | 12 | 624 | 0.422565732 | KCNG2,PQLC1 |
| 24 | 900,000 | 1,050,000 | 13 | 468 | 0.569255607 | NFATC1 |
| 24 | 975,000 | 1,125,000 | 14 | 351 | 0.782723522 | ATP9B,NFATC1 |
| 24 | 1,050,000 | 1,200,000 | 15 | 339 | 0.581146402 | ATP9B,NFATC1 |
| 24 | 1,125,000 | 1,275,000 | 16 | 493 | 0.506204739 | ATP9B |
| 24 | 1,200,000 | 1,350,000 | 17 | 669 | 0.78339602 | ATP9B |
| 24 | 1,275,000 | 1,425,000 | 18 | 918 | 0.877605888 | |
| 24 | 1,350,000 | 1,500,000 | 19 | 926 | 0.534065519 | |
| 24 | 1,425,000 | 1,575,000 | 20 | 871 | -0.106382206 | |
| 24 | 1,500,000 | 1,650,000 | 21 | 888 | -0.09752699 | |
| 24 | 1,575,000 | 1,725,000 | 22 | 895 | 0.460811829 | |
| 24 | 1,650,000 | 1,800,000 | 23 | 900 | 0.310123233 | |
| 24 | 1,725,000 | 1,875,000 | 24 | 1222 | 0.86800131 | |
| 24 | 1,800,000 | 1,950,000 | 25 | 1268 | 1.057542022 | |
| 24 | 1,875,000 | 2,025,000 | 26 | 850 | 0.682565493 | |
| 24 | 1,950,000 | 2,100,000 | 27 | 763 | -0.175083266 | |
| 24 | 2,025,000 | 2,175,000 | 28 | 874 | -0.911815839 | |
| 24 | 2,100,000 | 2,250,000 | 29 | 1117 | -1.48791811 | |
| 24 | 2,175,000 | 2,325,000 | 30 | 1101 | -2.048472631 | |
| 24 | 2,250,000 | 2,400,000 | 31 | 775 | -1.473124709 | |
| 24 | 2,325,000 | 2,475,000 | 32 | 562 | -0.000705856 | GALR1 |
| 24 | 2,400,000 | 2,550,000 | 33 | 941 | 0.364066095 | GALR1 |
| 24 | 2,475,000 | 2,625,000 | 34 | 1127 | 0.160901718 | MBP,ZNF236 |
| 24 | 2,550,000 | 2,700,000 | 35 | 687 | 0.276230754 | MBP,ZNF236 |
| 24 | 2,625,000 | 2,775,000 | 36 | 564 | 0.765114759 | ZNF236 |
| 24 | 2,700,000 | 2,850,000 | 37 | 708 | 0.852900937 | |
| 24 | 2,775,000 | 2,925,000 | 38 | 847 | 0.788409425 | ZNF516 |
| 24 | 2,850,000 | 3,000,000 | 39 | 1190 | 0.934789331 | ZNF516 |
| 24 | 2,925,000 | 3,075,000 | 40 | 1349 | 1.111162722 | |
| 24 | 3,000,000 | 3,150,000 | 41 | 1112 | 0.485725189 | |
| 24 | 3,075,000 | 3,225,000 | 42 | 1072 | -0.494937741 | |
| 24 | 3,150,000 | 3,300,000 | 43 | 1141 | -0.154700879 | |
| 24 | 3,225,000 | 3,375,000 | 44 | 832 | -0.575532103 | |
| 24 | 3,300,000 | 3,450,000 | 45 | 758 | -1.369746194 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|-----------------------------|
| 24 | 3,375,000 | 3,525,000 | 46 | 921 | -0.067192561 | |
| 24 | 3,450,000 | 3,600,000 | 47 | 1021 | 0.201003568 | |
| 24 | 3,525,000 | 3,675,000 | 48 | 872 | -0.009623771 | TSHZ1 |
| 24 | 3,600,000 | 3,750,000 | 49 | 632 | -0.342009697 | TSHZ1 |
| 24 | 3,675,000 | 3,825,000 | 50 | 747 | 0.204642288 | TSHZ1,ZADH2 |
| 24 | 3,750,000 | 3,900,000 | 51 | 965 | 0.507868027 | ZADH2,ZNF407 |
| 24 | 3,825,000 | 3,975,000 | 52 | 929 | 0.35702698 | ZNF407 |
| 24 | 3,900,000 | 4,050,000 | 53 | 607 | 0.499190195 | ZNF407 |
| 24 | 3,975,000 | 4,125,000 | 54 | 398 | 0.310647137 | ZNF407 |
| 24 | 4,050,000 | 4,200,000 | 55 | 451 | 0.476974767 | ZNF407 |
| 24 | 4,125,000 | 4,275,000 | 56 | 570 | 0.735301392 | CNDP1,CNDP2,ZNF407 |
| 24 | 4,200,000 | 4,350,000 | 57 | 766 | 0.764801563 | CNDP1,CNDP2,FAM69C |
| 24 | 4,275,000 | 4,425,000 | 58 | 649 | 0.247126747 | C18orf63,CNDP2,CYB5A,FAM69C |
| 24 | 4,350,000 | 4,500,000 | 59 | 488 | -0.493584665 | C18orf63,CYB5A |
| 24 | 4,425,000 | 4,575,000 | 60 | 704 | -0.002398263 | CYB5A,FBXO15,TIMM21 |
| 24 | 4,500,000 | 4,650,000 | 61 | 888 | 0.080888112 | FBXO15,TIMM21 |
| 24 | 4,575,000 | 4,725,000 | 62 | 1084 | -0.315858613 | |
| 24 | 4,650,000 | 4,800,000 | 63 | 1454 | 0.544761811 | |
| 24 | 4,725,000 | 4,875,000 | 64 | 1542 | 1.16823389 | |
| 24 | 4,800,000 | 4,950,000 | 65 | 1256 | -1.512931917 | |
| 24 | 4,875,000 | 5,025,000 | 66 | 1106 | -3.006480646 | |
| 24 | 4,950,000 | 5,100,000 | 67 | 1073 | -0.048626655 | |
| 24 | 5,025,000 | 5,175,000 | 68 | 1201 | 0.184202279 | |
| 24 | 5,100,000 | 5,250,000 | 69 | 1136 | 0.462731551 | |
| 24 | 5,175,000 | 5,325,000 | 70 | 1211 | 0.651101041 | |
| 24 | 5,250,000 | 5,400,000 | 71 | 1584 | 0.232982343 | NETO1 |
| 24 | 5,325,000 | 5,475,000 | 72 | 1585 | 0.005336006 | NETO1 |
| 24 | 5,400,000 | 5,550,000 | 73 | 1416 | 0.214795338 | NETO1 |
| 24 | 5,475,000 | 5,625,000 | 74 | 1286 | 0.734174533 | CBLN2 |
| 24 | 5,550,000 | 5,700,000 | 75 | 992 | 0.281522244 | CBLN2 |
| 24 | 5,625,000 | 5,775,000 | 76 | 903 | -0.798833802 | |
| 24 | 5,700,000 | 5,850,000 | 77 | 1081 | -0.242825755 | |
| 24 | 5,775,000 | 5,925,000 | 78 | 858 | -0.986351105 | |
| 24 | 5,850,000 | 6,000,000 | 79 | 929 | -0.730684457 | |
| 24 | 5,925,000 | 6,075,000 | 80 | 1331 | 0.409469411 | |
| 24 | 6,000,000 | 6,150,000 | 81 | 1275 | 0.323976889 | |
| 24 | 6,075,000 | 6,225,000 | 82 | 1280 | 0.598363169 | |
| 24 | 6,150,000 | 6,300,000 | 83 | 1403 | 0.624397185 | |
| 24 | 6,225,000 | 6,375,000 | 84 | 1420 | 0.778886818 | |
| 24 | 6,300,000 | 6,450,000 | 85 | 1829 | -0.298139919 | |
| 24 | 6,375,000 | 6,525,000 | 86 | 1943 | -1.404026172 | |
| 24 | 6,450,000 | 6,600,000 | 87 | 1584 | -1.194238301 | |
| 24 | 6,525,000 | 6,675,000 | 88 | 1492 | 0.37585089 | |
| 24 | 6,600,000 | 6,750,000 | 89 | 1549 | 1.082676782 | |
| 24 | 6,675,000 | 6,825,000 | 90 | 1450 | 0.976638839 | |
| 24 | 6,750,000 | 6,900,000 | 91 | 1565 | -1.230081935 | |
| 24 | 6,825,000 | 6,975,000 | 92 | 1587 | -1.796123214 | |
| 24 | 6,900,000 | 7,050,000 | 93 | 1576 | -1.111648907 | |
| 24 | 6,975,000 | 7,125,000 | 94 | 1754 | -0.314659781 | |
| 24 | 7,050,000 | 7,200,000 | 95 | 1513 | -0.159535776 | |
| 24 | 7,125,000 | 7,275,000 | 96 | 1381 | -0.229899131 | |
| 24 | 7,200,000 | 7,350,000 | 97 | 1598 | 0.882711107 | SOCS6 |
| 24 | 7,275,000 | 7,425,000 | 98 | 1962 | 1.379441849 | RTTN,SOCS6 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------|
| 24 | 7,350,000 | 7,500,000 | 99 | 1941 | 1.450240252 | RTTN |
| 24 | 7,425,000 | 7,575,000 | 100 | 2074 | 1.309997436 | RTTN |
| 24 | 7,500,000 | 7,650,000 | 101 | 2281 | 1.100754494 | CD226,RTTN |
| 24 | 7,575,000 | 7,725,000 | 102 | 2192 | 0.206356327 | CD226,DOK6 |
| 24 | 7,650,000 | 7,800,000 | 103 | 2017 | -1.061573165 | CD226,DOK6 |
| 24 | 7,725,000 | 7,875,000 | 104 | 1827 | -1.343851215 | DOK6 |
| 24 | 7,800,000 | 7,950,000 | 105 | 1663 | -0.856090302 | DOK6 |
| 24 | 7,875,000 | 8,025,000 | 106 | 1499 | -0.102773213 | DOK6 |
| 24 | 7,950,000 | 8,100,000 | 107 | 1370 | -0.140286608 | DOK6 |
| 24 | 8,025,000 | 8,175,000 | 108 | 1267 | -0.403110355 | DOK6 |
| 24 | 8,100,000 | 8,250,000 | 109 | 1048 | 0.577922453 | DOK6 |
| 24 | 8,175,000 | 8,325,000 | 110 | 863 | -0.810827571 | |
| 24 | 8,250,000 | 8,400,000 | 111 | 1181 | -1.063392505 | |
| 24 | 8,325,000 | 8,475,000 | 112 | 1224 | -0.650188581 | |
| 24 | 8,400,000 | 8,550,000 | 113 | 1084 | -0.336666608 | |
| 24 | 8,475,000 | 8,625,000 | 114 | 1166 | -0.119326797 | CCDC102B |
| 24 | 8,550,000 | 8,700,000 | 115 | 960 | 0.504193093 | CCDC102B |
| 24 | 8,625,000 | 8,775,000 | 116 | 925 | 0.158321071 | CCDC102B,TMX3 |
| 24 | 8,700,000 | 8,850,000 | 117 | 901 | -0.884337141 | HIGD1D,TMX3 |
| 24 | 8,775,000 | 8,925,000 | 118 | 505 | -0.219851648 | HIGD1D,TMX3 |
| 24 | 8,850,000 | 9,000,000 | 119 | 584 | 0.817594747 | |
| 24 | 8,925,000 | 9,075,000 | 120 | 848 | 0.489975784 | |
| 24 | 9,000,000 | 9,150,000 | 121 | 867 | -0.230112523 | |
| 24 | 9,075,000 | 9,225,000 | 122 | 1039 | -0.679956676 | |
| 24 | 9,150,000 | 9,300,000 | 123 | 1476 | -1.3055173 | |
| 24 | 9,225,000 | 9,375,000 | 124 | 1633 | -0.916855985 | |
| 24 | 9,300,000 | 9,450,000 | 125 | 1152 | 0.601808859 | |
| 24 | 9,375,000 | 9,525,000 | 126 | 930 | 1.403316887 | |
| 24 | 9,450,000 | 9,600,000 | 127 | 892 | 1.095015913 | |
| 24 | 9,525,000 | 9,675,000 | 128 | 1003 | 0.432550258 | |
| 24 | 9,600,000 | 9,750,000 | 129 | 1234 | -0.17735341 | DSEL |
| 24 | 9,675,000 | 9,825,000 | 130 | 1403 | -0.229445611 | DSEL |
| 24 | 9,750,000 | 9,900,000 | 131 | 1589 | 0.399151991 | |
| 24 | 9,825,000 | 9,975,000 | 132 | 1628 | -0.351364758 | |
| 24 | 9,900,000 | 10,050,000 | 133 | 1596 | -1.762152866 | |
| 24 | 9,975,000 | 10,125,000 | 134 | 1456 | -0.44808299 | |
| 24 | 10,050,000 | 10,200,000 | 135 | 1400 | 0.730134563 | |
| 24 | 10,125,000 | 10,275,000 | 136 | 1187 | -0.761410014 | |
| 24 | 10,200,000 | 10,350,000 | 137 | 1357 | -1.714894613 | |
| 24 | 10,275,000 | 10,425,000 | 138 | 1629 | -0.927997915 | |
| 24 | 10,350,000 | 10,500,000 | 139 | 1516 | -0.572853472 | CDH19 |
| 24 | 10,425,000 | 10,575,000 | 140 | 1312 | -0.566446775 | CDH19 |
| 24 | 10,500,000 | 10,650,000 | 141 | 1420 | 0.439379597 | CDH19 |
| 24 | 10,575,000 | 10,725,000 | 142 | 1397 | 0.758733579 | |
| 24 | 10,650,000 | 10,800,000 | 143 | 1047 | 0.84915748 | |
| 24 | 10,725,000 | 10,875,000 | 144 | 1067 | 0.448292278 | |
| 24 | 10,800,000 | 10,950,000 | 145 | 1111 | 0.268459367 | |
| 24 | 10,875,000 | 11,025,000 | 146 | 1038 | 0.621237276 | |
| 24 | 10,950,000 | 11,100,000 | 147 | 1300 | 0.843492905 | CDH7 |
| 24 | 11,025,000 | 11,175,000 | 148 | 1369 | 0.575972834 | CDH7 |
| 24 | 11,100,000 | 11,250,000 | 149 | 1246 | 0.551861365 | CDH7 |
| 24 | 11,175,000 | 11,325,000 | 150 | 1575 | 0.900715611 | CDH7 |
| 24 | 11,250,000 | 11,400,000 | 151 | 1642 | 0.758723764 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 24 | 11,325,000 | 11,475,000 | 152 | 1404 | 0.608572156 | |
| 24 | 11,400,000 | 11,550,000 | 153 | 1244 | 0.348739873 | |
| 24 | 11,475,000 | 11,625,000 | 154 | 1423 | 0.218116212 | |
| 24 | 11,550,000 | 11,700,000 | 155 | 1453 | 0.013525631 | |
| 24 | 11,625,000 | 11,775,000 | 156 | 1346 | 0.491651448 | |
| 24 | 11,700,000 | 11,850,000 | 157 | 1310 | 1.202415775 | |
| 24 | 11,775,000 | 11,925,000 | 158 | 1226 | 0.481575492 | |
| 24 | 11,850,000 | 12,000,000 | 159 | 923 | -0.80636717 | |
| 24 | 11,925,000 | 12,075,000 | 160 | 768 | -1.533213767 | |
| 24 | 12,000,000 | 12,150,000 | 161 | 778 | -0.217245757 | |
| 24 | 12,075,000 | 12,225,000 | 162 | 1125 | 0.677301122 | |
| 24 | 12,150,000 | 12,300,000 | 163 | 1074 | 0.964223047 | |
| 24 | 12,225,000 | 12,375,000 | 164 | 508 | -0.250146355 | |
| 24 | 12,300,000 | 12,450,000 | 165 | 476 | -1.103769068 | |
| 24 | 12,375,000 | 12,525,000 | 166 | 680 | -1.042898485 | |
| 24 | 12,450,000 | 12,600,000 | 167 | 1109 | -1.846449159 | |
| 24 | 12,525,000 | 12,675,000 | 168 | 1113 | -2.322059324 | |
| 24 | 12,600,000 | 12,750,000 | 169 | 1311 | -0.147798561 | SERPINB2,SERPINB8 |
| 24 | 12,675,000 | 12,825,000 | 170 | 1454 | 0.281980639 | SERPINB2,SERPINB8,ENSBTAG00000034656 |
| 24 | 12,750,000 | 12,900,000 | 171 | 1912 | 0.009579257 | SERPINB2,ENSBTAG00000034656 |
| 24 | 12,825,000 | 12,975,000 | 172 | 1948 | 0.003063042 | SYT4 |
| 24 | 12,900,000 | 13,050,000 | 173 | 1358 | -0.49655322 | SYT4 |
| 24 | 12,975,000 | 13,125,000 | 174 | 1268 | -0.550146475 | |
| 24 | 13,050,000 | 13,200,000 | 175 | 1443 | 0.699160923 | |
| 24 | 13,125,000 | 13,275,000 | 176 | 2175 | 0.755594449 | |
| 24 | 13,200,000 | 13,350,000 | 177 | 2189 | 0.409591733 | |
| 24 | 13,275,000 | 13,425,000 | 178 | 1924 | -0.767007853 | |
| 24 | 13,350,000 | 13,500,000 | 179 | 1506 | -0.735295995 | |
| 24 | 13,425,000 | 13,575,000 | 180 | 1608 | 1.107068857 | |
| 24 | 13,500,000 | 13,650,000 | 181 | 2137 | 1.292604048 | |
| 24 | 13,575,000 | 13,725,000 | 182 | 1773 | 1.265350773 | |
| 24 | 13,650,000 | 13,800,000 | 183 | 1317 | 1.130981872 | |
| 24 | 13,725,000 | 13,875,000 | 184 | 1400 | 0.323379596 | |
| 24 | 13,800,000 | 13,950,000 | 185 | 1329 | 0.08999074 | |
| 24 | 13,875,000 | 14,025,000 | 186 | 1121 | 0.524383247 | |
| 24 | 13,950,000 | 14,100,000 | 187 | 1293 | 0.605463798 | |
| 24 | 14,025,000 | 14,175,000 | 188 | 1458 | 0.628755598 | |
| 24 | 14,100,000 | 14,250,000 | 189 | 1406 | 0.11488694 | PIK3C3 |
| 24 | 14,175,000 | 14,325,000 | 190 | 1056 | 0.032815962 | PIK3C3 |
| 24 | 14,250,000 | 14,400,000 | 191 | 1241 | 0.37448825 | PIK3C3 |
| 24 | 14,325,000 | 14,475,000 | 192 | 1361 | 0.671718654 | PIK3C3 |
| 24 | 14,400,000 | 14,550,000 | 193 | 881 | 0.214259038 | |
| 24 | 14,475,000 | 14,625,000 | 194 | 652 | -0.480434292 | |
| 24 | 14,550,000 | 14,700,000 | 195 | 997 | 1.11715909 | |
| 24 | 14,625,000 | 14,775,000 | 196 | 1033 | 0.886032499 | |
| 24 | 14,700,000 | 14,850,000 | 197 | 966 | 0.661999711 | |
| 24 | 14,775,000 | 14,925,000 | 198 | 1115 | 1.25574047 | |
| 24 | 14,850,000 | 15,000,000 | 199 | 1331 | 1.040463083 | |
| 24 | 14,925,000 | 15,075,000 | 200 | 1329 | 0.102469215 | |
| 24 | 15,000,000 | 15,150,000 | 201 | 1135 | 0.206586776 | |
| 24 | 15,075,000 | 15,225,000 | 202 | 1363 | 0.829007398 | |
| 24 | 15,150,000 | 15,300,000 | 203 | 1450 | -0.954063811 | |
| 24 | 15,225,000 | 15,375,000 | 204 | 989 | -0.954628878 | |

| | | | | | |
|----|------------|------------|-----|------|--------------|
| 24 | 15,300,000 | 15,450,000 | 205 | 520 | 0.075758511 |
| 24 | 15,375,000 | 15,525,000 | 206 | 448 | 0.079049897 |
| 24 | 15,450,000 | 15,600,000 | 207 | 572 | 0.20375736 |
| 24 | 15,525,000 | 15,675,000 | 208 | 656 | 0.407743961 |
| 24 | 15,600,000 | 15,750,000 | 209 | 655 | 1.093218847 |
| 24 | 15,675,000 | 15,825,000 | 210 | 869 | 1.033480527 |
| 24 | 15,750,000 | 15,900,000 | 211 | 1077 | 1.137352112 |
| 24 | 15,825,000 | 15,975,000 | 212 | 987 | 1.224925706 |
| 24 | 15,900,000 | 16,050,000 | 213 | 583 | 0.220033838 |
| 24 | 15,975,000 | 16,125,000 | 214 | 742 | -1.118920023 |
| 24 | 16,050,000 | 16,200,000 | 215 | 858 | -0.920236644 |
| 24 | 16,125,000 | 16,275,000 | 216 | 629 | -0.932899774 |
| 24 | 16,200,000 | 16,350,000 | 217 | 602 | -0.096741676 |
| 24 | 16,275,000 | 16,425,000 | 218 | 451 | 0.833734546 |
| 24 | 16,350,000 | 16,500,000 | 219 | 505 | 0.838817113 |
| 24 | 16,425,000 | 16,575,000 | 220 | 789 | 1.036400062 |
| 24 | 16,500,000 | 16,650,000 | 221 | 1352 | 0.449737618 |
| 24 | 16,575,000 | 16,725,000 | 222 | 1438 | 0.32717099 |
| 24 | 16,650,000 | 16,800,000 | 223 | 1098 | 0.729690347 |
| 24 | 16,725,000 | 16,875,000 | 224 | 853 | 0.190748777 |
| 24 | 16,800,000 | 16,950,000 | 225 | 648 | 0.428147017 |
| 24 | 16,875,000 | 17,025,000 | 226 | 876 | -0.530887271 |
| 24 | 16,950,000 | 17,100,000 | 227 | 1587 | -1.953963209 |
| 24 | 17,025,000 | 17,175,000 | 228 | 1677 | -1.52996033 |
| 24 | 17,100,000 | 17,250,000 | 229 | 1403 | -0.486339221 |
| 24 | 17,175,000 | 17,325,000 | 230 | 1253 | -0.405672536 |
| 24 | 17,250,000 | 17,400,000 | 231 | 1004 | 0.196641482 |
| 24 | 17,325,000 | 17,475,000 | 232 | 987 | 0.939071794 |
| 24 | 17,400,000 | 17,550,000 | 233 | 1079 | 1.054381348 |
| 24 | 17,475,000 | 17,625,000 | 234 | 1379 | 1.146900524 |
| 24 | 17,550,000 | 17,700,000 | 235 | 1612 | 1.176856186 |
| 24 | 17,625,000 | 17,775,000 | 236 | 1653 | 1.151978203 |
| 24 | 17,700,000 | 17,850,000 | 237 | 1808 | 0.741919011 |
| 24 | 17,775,000 | 17,925,000 | 238 | 1844 | 0.682721169 |
| 24 | 17,850,000 | 18,000,000 | 239 | 1635 | 0.92129724 |
| 24 | 17,925,000 | 18,075,000 | 240 | 1559 | 0.822897291 |
| 24 | 18,000,000 | 18,150,000 | 241 | 1459 | 0.497203183 |
| 24 | 18,075,000 | 18,225,000 | 242 | 1436 | 0.783644189 |
| 24 | 18,150,000 | 18,300,000 | 243 | 1534 | 1.288510657 |
| 24 | 18,225,000 | 18,375,000 | 244 | 1507 | 1.162296685 |
| 24 | 18,300,000 | 18,450,000 | 245 | 1815 | 0.910275578 |
| 24 | 18,375,000 | 18,525,000 | 246 | 2029 | 0.923246148 |
| 24 | 18,450,000 | 18,600,000 | 247 | 1803 | 0.731470178 |
| 24 | 18,525,000 | 18,675,000 | 248 | 1880 | 0.532923946 |
| 24 | 18,600,000 | 18,750,000 | 249 | 1862 | 0.492734136 |
| 24 | 18,675,000 | 18,825,000 | 250 | 1528 | 0.394319912 |
| 24 | 18,750,000 | 18,900,000 | 251 | 1710 | 0.956770751 |
| 24 | 18,825,000 | 18,975,000 | 252 | 2039 | 1.314134014 |
| 24 | 18,900,000 | 19,050,000 | 253 | 1705 | 1.286804147 |
| 24 | 18,975,000 | 19,125,000 | 254 | 1610 | 1.093827808 |
| 24 | 19,050,000 | 19,200,000 | 255 | 1978 | 0.880196987 |
| 24 | 19,125,000 | 19,275,000 | 256 | 1833 | 0.634246031 |
| 24 | 19,200,000 | 19,350,000 | 257 | 1471 | 0.373887734 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 19,275,000 | 19,425,000 | 258 | 1501 | 0.195801299 | |
| 24 | 19,350,000 | 19,500,000 | 259 | 1321 | 0.353769443 | |
| 24 | 19,425,000 | 19,575,000 | 260 | 1201 | -0.027684725 | |
| 24 | 19,500,000 | 19,650,000 | 261 | 1152 | -0.780287141 | |
| 24 | 19,575,000 | 19,725,000 | 262 | 1114 | 0.255009544 | |
| 24 | 19,650,000 | 19,800,000 | 263 | 1103 | 0.557632391 | |
| 24 | 19,725,000 | 19,875,000 | 264 | 888 | 0.08298848 | BRUNOL4 |
| 24 | 19,800,000 | 19,950,000 | 265 | 1206 | 0.256573844 | BRUNOL4 |
| 24 | 19,875,000 | 20,025,000 | 266 | 1414 | -0.176008832 | BRUNOL4 |
| 24 | 19,950,000 | 20,100,000 | 267 | 1339 | -0.016563281 | BRUNOL4 |
| 24 | 20,025,000 | 20,175,000 | 268 | 1228 | 0.507937785 | BRUNOL4 |
| 24 | 20,100,000 | 20,250,000 | 269 | 1336 | 0.224775537 | BRUNOL4 |
| 24 | 20,175,000 | 20,325,000 | 270 | 1392 | 0.12221981 | KIAA1328 |
| 24 | 20,250,000 | 20,400,000 | 271 | 957 | 0.122854552 | KIAA1328 |
| 24 | 20,325,000 | 20,475,000 | 272 | 600 | 0.214019857 | |
| 24 | 20,400,000 | 20,550,000 | 273 | 557 | 0.494930019 | |
| 24 | 20,475,000 | 20,625,000 | 274 | 672 | 0.75216396 | C24H18ORF10 |
| 24 | 20,550,000 | 20,700,000 | 275 | 736 | 0.342661083 | C24H18ORF10,FHOD3 |
| 24 | 20,625,000 | 20,775,000 | 276 | 929 | -0.525587322 | C24H18ORF10,FHOD3 |
| 24 | 20,700,000 | 20,850,000 | 277 | 1310 | 0.261862104 | FHOD3 |
| 24 | 20,775,000 | 20,925,000 | 278 | 1287 | 0.487704398 | FHOD3 |
| 24 | 20,850,000 | 21,000,000 | 279 | 1056 | -0.13102117 | FHOD3 |
| 24 | 20,925,000 | 21,075,000 | 280 | 1373 | 0.256799327 | FHOD3 |
| 24 | 21,000,000 | 21,150,000 | 281 | 1721 | 0.735888785 | FHOD3 |
| 24 | 21,075,000 | 21,225,000 | 282 | 1868 | 0.695775898 | FHOD3,MOCOS |
| 24 | 21,150,000 | 21,300,000 | 283 | 1720 | 0.146466614 | ELP2,FHOD3,MOCOS |
| 24 | 21,225,000 | 21,375,000 | 284 | 1340 | 0.181466876 | ELP2,MOCOS,RPRD1A,SLC39A6 |
| 24 | 21,300,000 | 21,450,000 | 285 | 1372 | 0.511832644 | C18orf21,ELP2,RPRD1A,SLC39A6 |
| 24 | 21,375,000 | 21,525,000 | 286 | 1674 | 0.566363842 | C18orf21,RPRD1A |
| 24 | 21,450,000 | 21,600,000 | 287 | 1815 | 1.051038918 | C18orf21 |
| 24 | 21,525,000 | 21,675,000 | 288 | 1840 | 1.255422504 | |
| 24 | 21,600,000 | 21,750,000 | 289 | 1609 | 0.760644881 | GALNT1 |
| 24 | 21,675,000 | 21,825,000 | 290 | 1468 | 0.432161548 | GALNT1 |
| 24 | 21,750,000 | 21,900,000 | 291 | 1703 | 0.400894054 | GALNT1,INO80C |
| 24 | 21,825,000 | 21,975,000 | 292 | 1799 | 0.468256213 | INO80C |
| 24 | 21,900,000 | 22,050,000 | 293 | 1446 | 1.058803014 | INO80C,ZNF24 |
| 24 | 21,975,000 | 22,125,000 | 294 | 1270 | 1.103692223 | ZNF24,ZNF397 |
| 24 | 22,050,000 | 22,200,000 | 295 | 1432 | 0.008362375 | MAPRE2,ZNF24,ZNF397,ENSBTAG00000015315 |
| 24 | 22,125,000 | 22,275,000 | 296 | 1628 | -1.077768259 | MAPRE2,ENSBTAG00000015315 |
| 24 | 22,200,000 | 22,350,000 | 297 | 1468 | -0.403620944 | MAPRE2 |
| 24 | 22,275,000 | 22,425,000 | 298 | 1341 | 0.307635706 | MAPRE2 |
| 24 | 22,350,000 | 22,500,000 | 299 | 1370 | 0.225184677 | DTNA |
| 24 | 22,425,000 | 22,575,000 | 300 | 1286 | 0.333475836 | DTNA |
| 24 | 22,500,000 | 22,650,000 | 301 | 1457 | 0.553332704 | DTNA |
| 24 | 22,575,000 | 22,725,000 | 302 | 1554 | 0.537099806 | DTNA |
| 24 | 22,650,000 | 22,800,000 | 303 | 1614 | -0.062031721 | DTNA |
| 24 | 22,725,000 | 22,875,000 | 304 | 1427 | -0.340595764 | DTNA |
| 24 | 22,800,000 | 22,950,000 | 305 | 1327 | 0.49129299 | |
| 24 | 22,875,000 | 23,025,000 | 306 | 1460 | 0.92352836 | |
| 24 | 22,950,000 | 23,100,000 | 307 | 1749 | 1.049653235 | |
| 24 | 23,025,000 | 23,175,000 | 308 | 1683 | 1.118596428 | NOL4 |
| 24 | 23,100,000 | 23,250,000 | 309 | 1440 | 0.989947651 | NOL4 |
| 24 | 23,175,000 | 23,325,000 | 310 | 1392 | -0.405429663 | NOL4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 24 | 23,250,000 | 23,400,000 | 311 | 1219 | -1.398207048 | NOL4 |
| 24 | 23,325,000 | 23,475,000 | 312 | 1014 | -0.389062987 | NOL4 |
| 24 | 23,400,000 | 23,550,000 | 313 | 893 | -1.737080883 | NOL4 |
| 24 | 23,475,000 | 23,625,000 | 314 | 1269 | -0.33346183 | NOL4 |
| 24 | 23,550,000 | 23,700,000 | 315 | 1318 | 1.070750112 | NOL4 |
| 24 | 23,625,000 | 23,775,000 | 316 | 739 | 1.210713147 | ASXL3,NOL4 |
| 24 | 23,700,000 | 23,850,000 | 317 | 588 | -0.085997119 | ASXL3 |
| 24 | 23,775,000 | 23,925,000 | 318 | 709 | -0.688540517 | ASXL3 |
| 24 | 23,850,000 | 24,000,000 | 319 | 755 | 0.519556116 | ASXL3 |
| 24 | 23,925,000 | 24,075,000 | 320 | 600 | 1.27419722 | ASXL3 |
| 24 | 24,000,000 | 24,150,000 | 321 | 315 | 1.4784127 | CCDC178 |
| 24 | 24,075,000 | 24,225,000 | 322 | 360 | -0.73160309 | CCDC178 |
| 24 | 24,150,000 | 24,300,000 | 323 | 379 | -2.231799805 | CCDC178 |
| 24 | 24,225,000 | 24,375,000 | 324 | 565 | -0.313649304 | CCDC178 |
| 24 | 24,300,000 | 24,450,000 | 325 | 590 | 0.187065611 | ENSBTAG00000048303 |
| 24 | 24,375,000 | 24,525,000 | 326 | 495 | 0.115565463 | ENSBTAG00000048303 |
| 24 | 24,450,000 | 24,600,000 | 327 | 637 | -0.136092986 | |
| 24 | 24,525,000 | 24,675,000 | 328 | 662 | -0.175098971 | KLHL14 |
| 24 | 24,600,000 | 24,750,000 | 329 | 969 | -1.063165051 | KLHL14 |
| 24 | 24,675,000 | 24,825,000 | 330 | 1194 | -1.01728854 | KLHL14 |
| 24 | 24,750,000 | 24,900,000 | 331 | 1087 | -0.027977938 | KLHL14 |
| 24 | 24,825,000 | 24,975,000 | 332 | 1171 | 0.947791688 | |
| 24 | 24,900,000 | 25,050,000 | 333 | 1027 | 0.782782582 | GAREM |
| 24 | 24,975,000 | 25,125,000 | 334 | 576 | 0.284842849 | GAREM |
| 24 | 25,050,000 | 25,200,000 | 335 | 450 | 0.129574182 | GAREM |
| 24 | 25,125,000 | 25,275,000 | 336 | 441 | 0.455851164 | GAREM |
| 24 | 25,200,000 | 25,350,000 | 337 | 458 | 0.293327715 | GAREM,MEP1B |
| 24 | 25,275,000 | 25,425,000 | 338 | 551 | 0.210033557 | MEP1B,RNF138 |
| 24 | 25,350,000 | 25,500,000 | 339 | 663 | -0.063546352 | RNF125,RNF138 |
| 24 | 25,425,000 | 25,575,000 | 340 | 833 | -0.945406267 | RNF125,RNF138,ENSBTAG00000039296 |
| 24 | 25,500,000 | 25,650,000 | 341 | 831 | -1.350274058 | ENSBTAG00000007696,ENSBTAG00000039296 |
| 24 | 25,575,000 | 25,725,000 | 342 | 859 | -0.571610075 | ENSBTAG00000007696,ENSBTAG00000039296 |
| 24 | 25,650,000 | 25,800,000 | 343 | 821 | -0.111470649 | B4GALT6,ENSBTAG00000007696 |
| 24 | 25,725,000 | 25,875,000 | 344 | 646 | -0.111686853 | B4GALT6,TTR |
| 24 | 25,800,000 | 25,950,000 | 345 | 1014 | 0.144441464 | B4GALT6,DSG2,TTR |
| 24 | 25,875,000 | 26,025,000 | 346 | 885 | -0.280662518 | DSG2,DSG3 |
| 24 | 25,950,000 | 26,100,000 | 347 | 619 | -1.954608474 | DSG1,DSG2,DSG3,DSG4 |
| 24 | 26,025,000 | 26,175,000 | 348 | 1090 | -0.956368197 | DSG1,DSG4 |
| 24 | 26,100,000 | 26,250,000 | 349 | 1390 | 0.151194989 | DSG1 |
| 24 | 26,175,000 | 26,325,000 | 350 | 1429 | 0.401436794 | DSC1 |
| 24 | 26,250,000 | 26,400,000 | 351 | 1392 | 0.49242317 | DSC1,DSC2,DSC3 |
| 24 | 26,325,000 | 26,475,000 | 352 | 1360 | 0.496986014 | DSC2,DSC3 |
| 24 | 26,400,000 | 26,550,000 | 353 | 1462 | 0.366799339 | DSC3 |
| 24 | 26,475,000 | 26,625,000 | 354 | 1407 | 0.858929093 | |
| 24 | 26,550,000 | 26,700,000 | 355 | 1183 | -0.16504041 | |
| 24 | 26,625,000 | 26,775,000 | 356 | 1330 | 0.281773014 | |
| 24 | 26,700,000 | 26,850,000 | 357 | 1590 | -0.195095656 | |
| 24 | 26,775,000 | 26,925,000 | 358 | 1753 | -0.137151377 | |
| 24 | 26,850,000 | 27,000,000 | 359 | 1724 | 0.804678379 | |
| 24 | 26,925,000 | 27,075,000 | 360 | 1565 | 0.503856887 | |
| 24 | 27,000,000 | 27,150,000 | 361 | 1352 | 0.656287991 | |
| 24 | 27,075,000 | 27,225,000 | 362 | 1145 | 0.446247036 | |
| 24 | 27,150,000 | 27,300,000 | 363 | 1044 | -0.156101344 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 24 | 27,225,000 | 27,375,000 | 364 | 784 | 0.561859898 | |
| 24 | 27,300,000 | 27,450,000 | 365 | 587 | -0.171005527 | |
| 24 | 27,375,000 | 27,525,000 | 366 | 1214 | 0.309648721 | |
| 24 | 27,450,000 | 27,600,000 | 367 | 1398 | 0.662617393 | |
| 24 | 27,525,000 | 27,675,000 | 368 | 1519 | -0.243366556 | |
| 24 | 27,600,000 | 27,750,000 | 369 | 1873 | -0.320995759 | |
| 24 | 27,675,000 | 27,825,000 | 370 | 1334 | -0.064389212 | |
| 24 | 27,750,000 | 27,900,000 | 371 | 1530 | 0.689930815 | |
| 24 | 27,825,000 | 27,975,000 | 372 | 1807 | 0.793122417 | |
| 24 | 27,900,000 | 28,050,000 | 373 | 1437 | 0.903756955 | |
| 24 | 27,975,000 | 28,125,000 | 374 | 1172 | 1.229716094 | |
| 24 | 28,050,000 | 28,200,000 | 375 | 1156 | 1.137111179 | |
| 24 | 28,125,000 | 28,275,000 | 376 | 1274 | 1.198368816 | |
| 24 | 28,200,000 | 28,350,000 | 377 | 1577 | 1.084788645 | |
| 24 | 28,275,000 | 28,425,000 | 378 | 1689 | 1.031997641 | |
| 24 | 28,350,000 | 28,500,000 | 379 | 1230 | 0.921062724 | |
| 24 | 28,425,000 | 28,575,000 | 380 | 1131 | -0.247781597 | |
| 24 | 28,500,000 | 28,650,000 | 381 | 1159 | -0.159318288 | |
| 24 | 28,575,000 | 28,725,000 | 382 | 1057 | 0.506897384 | |
| 24 | 28,650,000 | 28,800,000 | 383 | 1362 | -2.473869804 | |
| 24 | 28,725,000 | 28,875,000 | 384 | 1737 | -2.004296846 | |
| 24 | 28,800,000 | 28,950,000 | 385 | 1627 | -0.691676305 | |
| 24 | 28,875,000 | 29,025,000 | 386 | 1274 | 0.053399991 | CDH2 |
| 24 | 28,950,000 | 29,100,000 | 387 | 1165 | 0.492102143 | CDH2 |
| 24 | 29,025,000 | 29,175,000 | 388 | 1234 | 0.813194568 | CDH2 |
| 24 | 29,100,000 | 29,250,000 | 389 | 1125 | 0.840589446 | CDH2 |
| 24 | 29,175,000 | 29,325,000 | 390 | 1125 | -0.339131216 | CDH2 |
| 24 | 29,250,000 | 29,400,000 | 391 | 1004 | -0.669031869 | |
| 24 | 29,325,000 | 29,475,000 | 392 | 774 | 0.528384799 | |
| 24 | 29,400,000 | 29,550,000 | 393 | 881 | -0.409459351 | ENSBTAG00000044212 |
| 24 | 29,475,000 | 29,625,000 | 394 | 999 | 0.278139964 | ENSBTAG00000044212 |
| 24 | 29,550,000 | 29,700,000 | 395 | 949 | 1.009603972 | |
| 24 | 29,625,000 | 29,775,000 | 396 | 826 | 0.615413616 | |
| 24 | 29,700,000 | 29,850,000 | 397 | 975 | 0.317190682 | |
| 24 | 29,775,000 | 29,925,000 | 398 | 1102 | 0.031059844 | |
| 24 | 29,850,000 | 30,000,000 | 399 | 1003 | 0.661515003 | |
| 24 | 29,925,000 | 30,075,000 | 400 | 1108 | 1.210921361 | CHST9 |
| 24 | 30,000,000 | 30,150,000 | 401 | 1261 | 0.203139769 | CHST9 |
| 24 | 30,075,000 | 30,225,000 | 402 | 1641 | -0.135363181 | CHST9 |
| 24 | 30,150,000 | 30,300,000 | 403 | 1742 | -0.119282886 | CHST9 |
| 24 | 30,225,000 | 30,375,000 | 404 | 1365 | 0.065860676 | AQP4,CHST9 |
| 24 | 30,300,000 | 30,450,000 | 405 | 1367 | 0.80242927 | AQP4,CHST9 |
| 24 | 30,375,000 | 30,525,000 | 406 | 1469 | 0.294388843 | AQP4 |
| 24 | 30,450,000 | 30,600,000 | 407 | 1404 | 0.096432772 | |
| 24 | 30,525,000 | 30,675,000 | 408 | 1389 | 0.860542941 | |
| 24 | 30,600,000 | 30,750,000 | 409 | 1198 | 0.597625787 | KCTD1 |
| 24 | 30,675,000 | 30,825,000 | 410 | 1109 | 0.55941174 | KCTD1 |
| 24 | 30,750,000 | 30,900,000 | 411 | 1105 | 1.113479274 | KCTD1,TAF4B |
| 24 | 30,825,000 | 30,975,000 | 412 | 1133 | 1.184526978 | TAF4B |
| 24 | 30,900,000 | 31,050,000 | 413 | 1216 | 1.135386388 | PSMA8,SS18,TAF4B |
| 24 | 30,975,000 | 31,125,000 | 414 | 940 | 0.648656411 | PSMA8,SS18 |
| 24 | 31,050,000 | 31,200,000 | 415 | 1089 | 0.94955963 | SS18 |
| 24 | 31,125,000 | 31,275,000 | 416 | 1446 | 1.423659349 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 24 | 31,200,000 | 31,350,000 | 417 | 1388 | 1.358235573 | |
| 24 | 31,275,000 | 31,425,000 | 418 | 1058 | 1.195143134 | |
| 24 | 31,350,000 | 31,500,000 | 419 | 856 | 0.142135997 | |
| 24 | 31,425,000 | 31,575,000 | 420 | 884 | -2.072526074 | |
| 24 | 31,500,000 | 31,650,000 | 421 | 933 | -3.554968602 | |
| 24 | 31,575,000 | 31,725,000 | 422 | 859 | -3.715351723 | ZNF521 |
| 24 | 31,650,000 | 31,800,000 | 423 | 832 | -3.026966077 | ZNF521 |
| 24 | 31,725,000 | 31,875,000 | 424 | 728 | -2.428288019 | ZNF521 |
| 24 | 31,800,000 | 31,950,000 | 425 | 576 | -0.423813043 | ZNF521 |
| 24 | 31,875,000 | 32,025,000 | 426 | 759 | 0.251324597 | ZNF521 |
| 24 | 31,950,000 | 32,100,000 | 427 | 1240 | -0.10196255 | ZNF521 |
| 24 | 32,025,000 | 32,175,000 | 428 | 1378 | -0.031391785 | ZNF521 |
| 24 | 32,100,000 | 32,250,000 | 429 | 1395 | 0.887570467 | |
| 24 | 32,175,000 | 32,325,000 | 430 | 1127 | 0.790781692 | |
| 24 | 32,250,000 | 32,400,000 | 431 | 944 | -0.629298657 | |
| 24 | 32,325,000 | 32,475,000 | 432 | 1375 | -1.22950366 | |
| 24 | 32,400,000 | 32,550,000 | 433 | 1442 | -0.313673767 | |
| 24 | 32,475,000 | 32,625,000 | 434 | 1327 | 0.184328072 | HRH4,IMPACT |
| 24 | 32,550,000 | 32,700,000 | 435 | 1278 | -1.161015279 | HRH4,IMPACT,OSBPL1A |
| 24 | 32,625,000 | 32,775,000 | 436 | 1210 | -1.9340736 | IMPACT,OSBPL1A |
| 24 | 32,700,000 | 32,850,000 | 437 | 873 | -1.099426064 | OSBPL1A |
| 24 | 32,775,000 | 32,925,000 | 438 | 615 | -0.580654878 | CABYR,OSBPL1A,TTC39C |
| 24 | 32,850,000 | 33,000,000 | 439 | 681 | -4.230466578 | CABYR,OSBPL1A,TTC39C |
| 24 | 32,925,000 | 33,075,000 | 440 | 755 | -2.187448056 | LAMA3,TTC39C |
| 24 | 33,000,000 | 33,150,000 | 441 | 933 | 1.067090199 | LAMA3 |
| 24 | 33,075,000 | 33,225,000 | 442 | 1117 | 1.062408166 | LAMA3 |
| 24 | 33,150,000 | 33,300,000 | 443 | 1397 | 0.620986186 | LAMA3 |
| 24 | 33,225,000 | 33,375,000 | 444 | 1506 | 0.332863864 | LAMA3,ENSBTAG00000039850 |
| 24 | 33,300,000 | 33,450,000 | 445 | 1566 | 0.317150776 | ANKRD29,LAMA3,NPC1,ENSBTAG00000039850 |
| 24 | 33,375,000 | 33,525,000 | 446 | 1690 | 0.514785249 | ANKRD29,C18orf8,NPC1,RIOK3 |
| 24 | 33,450,000 | 33,600,000 | 447 | 1509 | 0.718719347 | C18orf8,NPC1,RIOK3,TMEM241 |
| 24 | 33,525,000 | 33,675,000 | 448 | 1559 | 0.706085389 | RIOK3,TMEM241 |
| 24 | 33,600,000 | 33,750,000 | 449 | 1628 | 0.291334652 | CABLES1,TMEM241 |
| 24 | 33,675,000 | 33,825,000 | 450 | 1306 | -0.261077959 | CABLES1 |
| 24 | 33,750,000 | 33,900,000 | 451 | 1064 | -0.538885914 | CABLES1,RBBP8 |
| 24 | 33,825,000 | 33,975,000 | 452 | 766 | -0.750087594 | RBBP8 |
| 24 | 33,900,000 | 34,050,000 | 453 | 463 | 0.506156835 | RBBP8 |
| 24 | 33,975,000 | 34,125,000 | 454 | 643 | 0.764120863 | |
| 24 | 34,050,000 | 34,200,000 | 455 | 828 | 0.516567177 | |
| 24 | 34,125,000 | 34,275,000 | 456 | 879 | 0.702203598 | |
| 24 | 34,200,000 | 34,350,000 | 457 | 837 | 1.095507453 | |
| 24 | 34,275,000 | 34,425,000 | 458 | 769 | 1.143329305 | |
| 24 | 34,350,000 | 34,500,000 | 459 | 747 | 1.081417008 | |
| 24 | 34,425,000 | 34,575,000 | 460 | 861 | 0.942049015 | GATA6 |
| 24 | 34,500,000 | 34,650,000 | 461 | 876 | 0.802711621 | GATA6,ENSBTAG00000047113 |
| 24 | 34,575,000 | 34,725,000 | 462 | 584 | 0.832351824 | GATA6,ENSBTAG00000047113 |
| 24 | 34,650,000 | 34,800,000 | 463 | 358 | 0.934862755 | |
| 24 | 34,725,000 | 34,875,000 | 464 | 317 | 0.602675745 | MIB1 |
| 24 | 34,800,000 | 34,950,000 | 465 | 510 | 0.506838766 | ABHD3,MIB1 |
| 24 | 34,875,000 | 35,025,000 | 466 | 547 | 0.581524208 | ABHD3,ESCO1,MIB1,SNRPD1 |
| 24 | 34,950,000 | 35,100,000 | 467 | 361 | 0.746754093 | ABHD3,ESCO1,GREB1L,SNRPD1 |
| 24 | 35,025,000 | 35,175,000 | 468 | 545 | -2.874358328 | ESCO1,GREB1L |
| 24 | 35,100,000 | 35,250,000 | 469 | 608 | -3.478708551 | GREB1L |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 24 | 35,175,000 | 35,325,000 | 470 | 451 | -1.029427311 | |
| 24 | 35,250,000 | 35,400,000 | 471 | 584 | 0.384830848 | MGC133647 |
| 24 | 35,325,000 | 35,475,000 | 472 | 548 | 0.479092517 | MGC133647,ROCK1 |
| 24 | 35,400,000 | 35,550,000 | 473 | 422 | 0.021347215 | ROCK1,USP14 |
| 24 | 35,475,000 | 35,625,000 | 474 | 784 | 0.3325373 | ROCK1,THOC1,USP14 |
| 24 | 35,550,000 | 35,700,000 | 475 | 1154 | 0.792746149 | COLEC12,THOC1,USP14 |
| 24 | 35,625,000 | 35,775,000 | 476 | 1098 | 0.955702677 | COLEC12 |
| 24 | 35,700,000 | 35,850,000 | 477 | 837 | 0.611180045 | COLEC12 |
| 24 | 35,775,000 | 35,925,000 | 478 | 846 | 0.36559129 | CETN1,CLUL1,COLEC12 |
| 24 | 35,850,000 | 36,000,000 | 479 | 928 | 0.440271395 | CETN1,CLUL1,ENOSF1,TYMS,YES1 |
| 24 | 35,925,000 | 36,075,000 | 480 | 852 | 0.414546022 | CLUL1,ENOSF1,TYMS,YES1 |
| 24 | 36,000,000 | 36,150,000 | 481 | 663 | 0.356583069 | ADCYAP1,YES1 |
| 24 | 36,075,000 | 36,225,000 | 482 | 688 | 0.148569546 | ADCYAP1 |
| 24 | 36,150,000 | 36,300,000 | 483 | 714 | 0.106131952 | |
| 24 | 36,225,000 | 36,375,000 | 484 | 396 | 0.022714962 | |
| 24 | 36,300,000 | 36,450,000 | 485 | 288 | -0.695347559 | |
| 24 | 36,375,000 | 36,525,000 | 486 | 407 | -0.684875049 | |
| 24 | 36,450,000 | 36,600,000 | 487 | 855 | 0.500855038 | |
| 24 | 36,525,000 | 36,675,000 | 488 | 1115 | 0.488858658 | |
| 24 | 36,600,000 | 36,750,000 | 489 | 1129 | -0.845217215 | |
| 24 | 36,675,000 | 36,825,000 | 490 | 1168 | -0.637116283 | |
| 24 | 36,750,000 | 36,900,000 | 491 | 1258 | -0.040082565 | |
| 24 | 36,825,000 | 36,975,000 | 492 | 1449 | -0.440063463 | |
| 24 | 36,900,000 | 37,050,000 | 493 | 1231 | -0.671928791 | |
| 24 | 36,975,000 | 37,125,000 | 494 | 985 | -0.149162216 | |
| 24 | 37,050,000 | 37,200,000 | 495 | 1015 | -0.913095842 | |
| 24 | 37,125,000 | 37,275,000 | 496 | 1229 | -1.596506906 | METTL4 |
| 24 | 37,200,000 | 37,350,000 | 497 | 1273 | -0.724177649 | METTL4,NDC80,SMCHD1 |
| 24 | 37,275,000 | 37,425,000 | 498 | 1174 | 0.813840899 | METTL4,NDC80,SMCHD1 |
| 24 | 37,350,000 | 37,500,000 | 499 | 1120 | 0.807643101 | EMILIN2,SMCHD1 |
| 24 | 37,425,000 | 37,575,000 | 500 | 1340 | 0.444904595 | EMILIN2,LPIN2,SMCHD1 |
| 24 | 37,500,000 | 37,650,000 | 501 | 1779 | 0.861359166 | EMILIN2,LPIN2 |
| 24 | 37,575,000 | 37,725,000 | 502 | 1587 | 1.25202544 | LPIN2,MYOM1 |
| 24 | 37,650,000 | 37,800,000 | 503 | 1200 | 1.335680767 | MYOM1 |
| 24 | 37,725,000 | 37,875,000 | 504 | 1142 | 1.063967279 | MYL12B,MYL9,MYOM1 |
| 24 | 37,800,000 | 37,950,000 | 505 | 1057 | 0.950671121 | MYL12B,MYL9,TGIF1 |
| 24 | 37,875,000 | 38,025,000 | 506 | 1014 | 1.122293141 | MYL12B,TGIF1,ENSBTAG00000005372 |
| 24 | 37,950,000 | 38,100,000 | 507 | 868 | 1.160998906 | ENSBTAG00000005372 |
| 24 | 38,025,000 | 38,175,000 | 508 | 930 | 0.78601061 | ENSBTAG00000005372 |
| 24 | 38,100,000 | 38,250,000 | 509 | 1218 | -0.261118671 | ENSBTAG00000005372 |
| 24 | 38,175,000 | 38,325,000 | 510 | 1191 | -0.50435249 | ENSBTAG00000005372 |
| 24 | 38,250,000 | 38,400,000 | 511 | 1084 | -0.651016836 | ENSBTAG00000005372 |
| 24 | 38,325,000 | 38,475,000 | 512 | 1141 | -1.181419409 | |
| 24 | 38,400,000 | 38,550,000 | 513 | 1382 | -0.287862727 | |
| 24 | 38,475,000 | 38,625,000 | 514 | 1146 | -0.104587474 | |
| 24 | 38,550,000 | 38,700,000 | 515 | 860 | -0.005902778 | |
| 24 | 38,625,000 | 38,775,000 | 516 | 954 | 0.088062418 | |
| 24 | 38,700,000 | 38,850,000 | 517 | 884 | 0.560238572 | |
| 24 | 38,775,000 | 38,925,000 | 518 | 885 | 0.750287454 | |
| 24 | 38,850,000 | 39,000,000 | 519 | 1024 | 0.607518957 | |
| 24 | 38,925,000 | 39,075,000 | 520 | 1131 | -0.06517674 | |
| 24 | 39,000,000 | 39,150,000 | 521 | 1112 | -0.116948574 | ENSBTAG00000046269 |
| 24 | 39,075,000 | 39,225,000 | 522 | 835 | 0.410832047 | ENSBTAG00000046269 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 24 | 39,150,000 | 39,300,000 | 523 | 664 | 0.575397645 | ZBTB14 |
| 24 | 39,225,000 | 39,375,000 | 524 | 837 | 0.75157473 | EPB41L3,ZBTB14 |
| 24 | 39,300,000 | 39,450,000 | 525 | 1013 | 0.661506507 | EPB41L3 |
| 24 | 39,375,000 | 39,525,000 | 526 | 1048 | -2.70525017 | EPB41L3 |
| 24 | 39,450,000 | 39,600,000 | 527 | 868 | -5.003455866 | |
| 24 | 39,525,000 | 39,675,000 | 528 | 697 | -3.140805702 | |
| 24 | 39,600,000 | 39,750,000 | 529 | 791 | -1.414991042 | TMEM200C |
| 24 | 39,675,000 | 39,825,000 | 530 | 875 | 0.144183641 | TMEM200C |
| 24 | 39,750,000 | 39,900,000 | 531 | 755 | 0.468340438 | |
| 24 | 39,825,000 | 39,975,000 | 532 | 802 | -0.319495759 | |
| 24 | 39,900,000 | 40,050,000 | 533 | 1149 | -0.29550666 | |
| 24 | 39,975,000 | 40,125,000 | 534 | 1306 | -0.174952121 | |
| 24 | 40,050,000 | 40,200,000 | 535 | 1438 | -1.678691372 | |
| 24 | 40,125,000 | 40,275,000 | 536 | 1424 | -2.112917227 | |
| 24 | 40,200,000 | 40,350,000 | 537 | 1270 | -1.24430381 | ARHGAP28 |
| 24 | 40,275,000 | 40,425,000 | 538 | 1253 | -1.007304553 | ARHGAP28,LAMA1 |
| 24 | 40,350,000 | 40,500,000 | 539 | 1321 | 0.357199183 | ARHGAP28,LAMA1 |
| 24 | 40,425,000 | 40,575,000 | 540 | 1501 | 0.384339828 | LAMA1,MGC160046 |
| 24 | 40,500,000 | 40,650,000 | 541 | 1444 | 0.528493185 | LAMA1,MGC160046 |
| 24 | 40,575,000 | 40,725,000 | 542 | 1529 | 0.588823893 | |
| 24 | 40,650,000 | 40,800,000 | 543 | 1759 | -0.28873343 | PTPRM |
| 24 | 40,725,000 | 40,875,000 | 544 | 1724 | -0.529839094 | PTPRM |
| 24 | 40,800,000 | 40,950,000 | 545 | 1534 | 0.040289995 | PTPRM |
| 24 | 40,875,000 | 41,025,000 | 546 | 1455 | 0.691423758 | PTPRM |
| 24 | 40,950,000 | 41,100,000 | 547 | 1281 | 1.244594382 | PTPRM |
| 24 | 41,025,000 | 41,175,000 | 548 | 872 | 1.082506143 | PTPRM |
| 24 | 41,100,000 | 41,250,000 | 549 | 693 | 0.996168999 | PTPRM |
| 24 | 41,175,000 | 41,325,000 | 550 | 968 | 1.146099203 | PTPRM |
| 24 | 41,250,000 | 41,400,000 | 551 | 1562 | 0.770540011 | PTPRM |
| 24 | 41,325,000 | 41,475,000 | 552 | 1754 | 0.558168316 | PTPRM |
| 24 | 41,400,000 | 41,550,000 | 553 | 1155 | 0.458257157 | PTPRM,RAB12 |
| 24 | 41,475,000 | 41,625,000 | 554 | 971 | 0.064054986 | MTCL1,RAB12 |
| 24 | 41,550,000 | 41,700,000 | 555 | 1101 | 0.466384026 | MTCL1 |
| 24 | 41,625,000 | 41,775,000 | 556 | 718 | 0.729640307 | MTCL1 |
| 24 | 41,700,000 | 41,850,000 | 557 | 582 | -0.001661802 | |
| 24 | 41,775,000 | 41,925,000 | 558 | 533 | -0.009260232 | ANKRD12,NDUFV2 |
| 24 | 41,850,000 | 42,000,000 | 559 | 405 | -0.245602851 | ANKRD12,NDUFV2,TWSG1 |
| 24 | 41,925,000 | 42,075,000 | 560 | 462 | 0.47504943 | ANKRD12,RALBP1,TWSG1 |
| 24 | 42,000,000 | 42,150,000 | 561 | 429 | 0.821752427 | PPP4R1,RALBP1,TWSG1 |
| 24 | 42,075,000 | 42,225,000 | 562 | 407 | 0.314601057 | PPP4R1,RALBP1 |
| 24 | 42,150,000 | 42,300,000 | 563 | 526 | 0.599172981 | RAB31 |
| 24 | 42,225,000 | 42,375,000 | 564 | 691 | 0.664219461 | RAB31,TXNDC2,VAPA |
| 24 | 42,300,000 | 42,450,000 | 565 | 662 | 0.167693751 | RAB31,TXNDC2,VAPA |
| 24 | 42,375,000 | 42,525,000 | 566 | 654 | -0.131985148 | |
| 24 | 42,450,000 | 42,600,000 | 567 | 621 | -0.656487463 | APCDD1 |
| 24 | 42,525,000 | 42,675,000 | 568 | 429 | -1.543680483 | APCDD1,NAPG,PIEZO2 |
| 24 | 42,600,000 | 42,750,000 | 569 | 446 | 0.06962784 | NAPG,PIEZO2 |
| 24 | 42,675,000 | 42,825,000 | 570 | 508 | 1.109053735 | PIEZO2 |
| 24 | 42,750,000 | 42,900,000 | 571 | 388 | 1.054295109 | PIEZO2 |
| 24 | 42,825,000 | 42,975,000 | 572 | 308 | -0.563785222 | |
| 24 | 42,900,000 | 43,050,000 | 573 | 350 | -0.801318948 | |
| 24 | 42,975,000 | 43,125,000 | 574 | 508 | 0.834990687 | GNAL |
| 24 | 43,050,000 | 43,200,000 | 575 | 681 | 1.329076148 | GNAL,IMPA2,MPPE1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 24 | 43,125,000 | 43,275,000 | 576 | 440 | 1.000617796 | AFG3L2,CIDEA,GNAL,IMPA2,MPPE1,TUBB6,ENSBTAG0000046547 |
| 24 | 43,200,000 | 43,350,000 | 577 | 207 | -0.937651307 | AFG3L2,CIDEA,IMPA2,SLMO1,SPIRE1,TUBB6,ENSBTAG0000046547 |
| 24 | 43,275,000 | 43,425,000 | 578 | 197 | -0.390900145 | SLMO1,SPIRE1 |
| 24 | 43,350,000 | 43,500,000 | 579 | 193 | 0.741056065 | SPIRE1 |
| 24 | 43,425,000 | 43,575,000 | 580 | 204 | 0.595966953 | CEP76,PSMG2,PTPN2,SPIRE1 |
| 24 | 43,500,000 | 43,650,000 | 581 | 225 | 0.32714722 | CEP76,PSMG2,PTPN2,SEH1L |
| 24 | 43,575,000 | 43,725,000 | 582 | 208 | 0.257290442 | CEP192,PTPN2,SEH1L |
| 24 | 43,650,000 | 43,800,000 | 583 | 234 | 0.168011553 | CEP192,SEH1L |
| 24 | 43,725,000 | 43,875,000 | 584 | 279 | -0.145215393 | CEP192,LDLRAD4 |
| 24 | 43,800,000 | 43,950,000 | 585 | 247 | -0.567964798 | FAM210A,LDLRAD4,RNMT |
| 24 | 43,875,000 | 44,025,000 | 586 | 245 | -0.416573805 | FAM210A,LDLRAD4,MC2R,MC5R,RNMT |
| 24 | 43,950,000 | 44,100,000 | 587 | 507 | -2.34585939 | MC2R,MC5R,RNMT |
| 24 | 44,025,000 | 44,175,000 | 588 | 749 | -1.506014786 | |
| 24 | 44,100,000 | 44,250,000 | 589 | 829 | 0.778121194 | |
| 24 | 44,175,000 | 44,325,000 | 590 | 896 | 1.026159485 | |
| 24 | 44,250,000 | 44,400,000 | 591 | 558 | 0.769743705 | |
| 24 | 44,325,000 | 44,475,000 | 592 | 238 | -1.499771852 | |
| 24 | 44,400,000 | 44,550,000 | 593 | 391 | -1.174850527 | |
| 24 | 44,475,000 | 44,625,000 | 594 | 607 | -1.697268305 | |
| 24 | 44,550,000 | 44,700,000 | 595 | 611 | -3.441095956 | |
| 24 | 44,625,000 | 44,775,000 | 596 | 519 | -2.717280767 | |
| 24 | 44,700,000 | 44,850,000 | 597 | 459 | 0.757835451 | |
| 24 | 44,775,000 | 44,925,000 | 598 | 461 | -1.651263934 | |
| 24 | 44,850,000 | 45,000,000 | 599 | 510 | -0.922463173 | |
| 24 | 44,925,000 | 45,075,000 | 600 | 479 | 0.552236638 | SETBP1 |
| 24 | 45,000,000 | 45,150,000 | 601 | 591 | 0.283073771 | SETBP1 |
| 24 | 45,075,000 | 45,225,000 | 602 | 874 | 0.855567338 | SETBP1 |
| 24 | 45,150,000 | 45,300,000 | 603 | 925 | 1.026241097 | |
| 24 | 45,225,000 | 45,375,000 | 604 | 1014 | 1.168324541 | |
| 24 | 45,300,000 | 45,450,000 | 605 | 1188 | 0.899720143 | |
| 24 | 45,375,000 | 45,525,000 | 606 | 1236 | 0.592206405 | |
| 24 | 45,450,000 | 45,600,000 | 607 | 964 | 0.260103391 | |
| 24 | 45,525,000 | 45,675,000 | 608 | 1043 | -0.091091868 | |
| 24 | 45,600,000 | 45,750,000 | 609 | 1400 | 0.350100574 | |
| 24 | 45,675,000 | 45,825,000 | 610 | 1470 | 0.791523663 | SLC14A2 |
| 24 | 45,750,000 | 45,900,000 | 611 | 1044 | 0.642593025 | SLC14A2 |
| 24 | 45,825,000 | 45,975,000 | 612 | 865 | 0.163700876 | SLC14A1,SLC14A2 |
| 24 | 45,900,000 | 46,050,000 | 613 | 1323 | 0.466654142 | EPG5,SIGLEC15,SLC14A1 |
| 24 | 45,975,000 | 46,125,000 | 614 | 1244 | 0.919977619 | EPG5,SIGLEC15 |
| 24 | 46,050,000 | 46,200,000 | 615 | 666 | 1.209424766 | EPG5,PSTPIP2 |
| 24 | 46,125,000 | 46,275,000 | 616 | 336 | 0.454738911 | EPG5,PSTPIP2 |
| 24 | 46,200,000 | 46,350,000 | 617 | 713 | -0.623817805 | ATP5A1,HAUS1,PSTPIP2 |
| 24 | 46,275,000 | 46,425,000 | 618 | 737 | -0.593849667 | ATP5A1,C24H18orf25,HAUS1,PSTPIP2 |
| 24 | 46,350,000 | 46,500,000 | 619 | 473 | -0.140688435 | C24H18orf25 |
| 24 | 46,425,000 | 46,575,000 | 620 | 688 | -1.817784011 | C24H18orf25 |
| 24 | 46,500,000 | 46,650,000 | 621 | 991 | -1.450868442 | RNF165 |
| 24 | 46,575,000 | 46,725,000 | 622 | 1029 | -1.140398782 | RNF165 |
| 24 | 46,650,000 | 46,800,000 | 623 | 776 | -1.767144461 | LOXHD1 |
| 24 | 46,725,000 | 46,875,000 | 624 | 701 | 0.369242012 | LOXHD1 |
| 24 | 46,800,000 | 46,950,000 | 625 | 1024 | 0.696118892 | LOXHD1,ST8SIA5 |
| 24 | 46,875,000 | 47,025,000 | 626 | 807 | 0.159564979 | PIAS2,ST8SIA5 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 46,950,000 | 47,100,000 | 627 | 314 | 0.980710006 | PIAS2 |
| 24 | 47,025,000 | 47,175,000 | 628 | 405 | 1.423226537 | PIAS2 |
| 24 | 47,100,000 | 47,250,000 | 629 | 566 | 1.074360871 | HDHD2,KATNAL2 |
| 24 | 47,175,000 | 47,325,000 | 630 | 660 | 0.66654308 | HDHD2,IER3IP1,KATNAL2,ENSBTAG00000047809 |
| 24 | 47,250,000 | 47,400,000 | 631 | 716 | 0.708415049 | HDHD2,IER3IP1,SKOR2,ENSBTAG00000047809 |
| 24 | 47,325,000 | 47,475,000 | 632 | 822 | 0.309683142 | SKOR2 |
| 24 | 47,400,000 | 47,550,000 | 633 | 899 | 0.414815798 | |
| 24 | 47,475,000 | 47,625,000 | 634 | 964 | 0.394990347 | |
| 24 | 47,550,000 | 47,700,000 | 635 | 990 | 0.462981061 | |
| 24 | 47,625,000 | 47,775,000 | 636 | 971 | 0.324086162 | |
| 24 | 47,700,000 | 47,850,000 | 637 | 674 | -1.173698418 | |
| 24 | 47,775,000 | 47,925,000 | 638 | 406 | -2.583583839 | |
| 24 | 47,850,000 | 48,000,000 | 639 | 332 | -3.047703604 | SMAD2 |
| 24 | 47,925,000 | 48,075,000 | 640 | 227 | -2.312219092 | SMAD2 |
| 24 | 48,000,000 | 48,150,000 | 641 | 572 | -0.526781828 | SMAD2 |
| 24 | 48,075,000 | 48,225,000 | 642 | 772 | -0.669314863 | ZBTB7C |
| 24 | 48,150,000 | 48,300,000 | 643 | 721 | -2.986225741 | ZBTB7C |
| 24 | 48,225,000 | 48,375,000 | 644 | 786 | -3.773484283 | |
| 24 | 48,300,000 | 48,450,000 | 645 | 896 | -1.40967169 | |
| 24 | 48,375,000 | 48,525,000 | 646 | 868 | 0.044574182 | |
| 24 | 48,450,000 | 48,600,000 | 647 | 815 | 0.53104482 | |
| 24 | 48,525,000 | 48,675,000 | 648 | 992 | -0.861649918 | |
| 24 | 48,600,000 | 48,750,000 | 649 | 1029 | -0.833779186 | |
| 24 | 48,675,000 | 48,825,000 | 650 | 852 | 0.78899268 | CTIF |
| 24 | 48,750,000 | 48,900,000 | 651 | 643 | -0.240829894 | CTIF |
| 24 | 48,825,000 | 48,975,000 | 652 | 436 | -2.001682358 | CTIF |
| 24 | 48,900,000 | 49,050,000 | 653 | 521 | -0.388215698 | CTIF |
| 24 | 48,975,000 | 49,125,000 | 654 | 539 | 0.194068515 | CTIF,SMAD7 |
| 24 | 49,050,000 | 49,200,000 | 655 | 416 | 0.873526783 | DYM,SMAD7 |
| 24 | 49,125,000 | 49,275,000 | 656 | 383 | 0.850372287 | DYM |
| 24 | 49,200,000 | 49,350,000 | 657 | 295 | 1.020480148 | DYM |
| 24 | 49,275,000 | 49,425,000 | 658 | 269 | 1.413311148 | DYM |
| 24 | 49,350,000 | 49,500,000 | 659 | 296 | 1.260915643 | DYM |
| 24 | 49,425,000 | 49,575,000 | 660 | 292 | 0.986946979 | DYM |
| 24 | 49,500,000 | 49,650,000 | 661 | 301 | 1.019370985 | C24H18orf32,DYM,RPL17 |
| 24 | 49,575,000 | 49,725,000 | 662 | 307 | 0.950596019 | C24H18orf32,DYM,RPL17 |
| 24 | 49,650,000 | 49,800,000 | 663 | 401 | -0.595901317 | |
| 24 | 49,725,000 | 49,875,000 | 664 | 684 | -0.578208633 | ENSBTAG00000039248 |
| 24 | 49,800,000 | 49,950,000 | 665 | 751 | 0.559473244 | ACAA2,ENSBTAG00000039248 |
| 24 | 49,875,000 | 50,025,000 | 666 | 858 | 1.374004332 | ACAA2,MYO5B |
| 24 | 49,950,000 | 50,100,000 | 667 | 1078 | 1.366634683 | MYO5B |
| 24 | 50,025,000 | 50,175,000 | 668 | 1102 | -0.817693043 | MYO5B |
| 24 | 50,100,000 | 50,250,000 | 669 | 933 | -1.736602533 | MYO5B |
| 24 | 50,175,000 | 50,325,000 | 670 | 1051 | 0.087877646 | CCDC11 |
| 24 | 50,250,000 | 50,400,000 | 671 | 889 | 0.516130556 | CCDC11,MBD1 |
| 24 | 50,325,000 | 50,475,000 | 672 | 402 | 1.215627972 | CCDC11,CXXC1,MBD1,SKA1 |
| 24 | 50,400,000 | 50,550,000 | 673 | 386 | 1.090647216 | CXXC1,SKA1 |
| 24 | 50,475,000 | 50,625,000 | 674 | 540 | 0.340798639 | |
| 24 | 50,550,000 | 50,700,000 | 675 | 819 | -0.289143726 | MAPK4 |
| 24 | 50,625,000 | 50,775,000 | 676 | 1439 | -0.284117741 | MAPK4 |
| 24 | 50,700,000 | 50,850,000 | 677 | 1652 | 0.137167888 | MAPK4,MRO |
| 24 | 50,775,000 | 50,925,000 | 678 | 1097 | 0.929836013 | ME2,MRO |
| 24 | 50,850,000 | 51,000,000 | 679 | 945 | 1.300080067 | ELAC1,ME2,SMAD4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 24 | 50,925,000 | 51,075,000 | 680 | 934 | 0.423872476 | ELAC1,ME2,SMAD4 |
| 24 | 51,000,000 | 51,150,000 | 681 | 763 | -0.481599954 | MEX3C,SMAD4 |
| 24 | 51,075,000 | 51,225,000 | 682 | 891 | 1.324281387 | AP3S1,MEX3C |
| 24 | 51,150,000 | 51,300,000 | 683 | 1288 | 1.468555245 | AP3S1 |
| 24 | 51,225,000 | 51,375,000 | 684 | 1255 | 1.288783939 | |
| 24 | 51,300,000 | 51,450,000 | 685 | 990 | 0.136108315 | |
| 24 | 51,375,000 | 51,525,000 | 686 | 1131 | 0.08211914 | |
| 24 | 51,450,000 | 51,600,000 | 687 | 1535 | 0.398747317 | |
| 24 | 51,525,000 | 51,675,000 | 688 | 1756 | 0.484721988 | |
| 24 | 51,600,000 | 51,750,000 | 689 | 1565 | 0.692823221 | |
| 24 | 51,675,000 | 51,825,000 | 690 | 1106 | -0.028118514 | |
| 24 | 51,750,000 | 51,900,000 | 691 | 1152 | 0.058978108 | |
| 24 | 51,825,000 | 51,975,000 | 692 | 1657 | 0.906480991 | |
| 24 | 51,900,000 | 52,050,000 | 693 | 1756 | 0.805535836 | |
| 24 | 51,975,000 | 52,125,000 | 694 | 1514 | 0.540124143 | |
| 24 | 52,050,000 | 52,200,000 | 695 | 1399 | 0.320723244 | |
| 24 | 52,125,000 | 52,275,000 | 696 | 1388 | -1.166091998 | |
| 24 | 52,200,000 | 52,350,000 | 697 | 1240 | -0.762473637 | |
| 24 | 52,275,000 | 52,425,000 | 698 | 1164 | 0.227105535 | |
| 24 | 52,350,000 | 52,500,000 | 699 | 993 | 0.111743994 | |
| 24 | 52,425,000 | 52,575,000 | 700 | 1099 | 0.007511719 | |
| 24 | 52,500,000 | 52,650,000 | 701 | 1350 | 0.355909419 | |
| 24 | 52,575,000 | 52,725,000 | 702 | 1184 | 1.194225276 | |
| 24 | 52,650,000 | 52,800,000 | 703 | 1049 | 0.57061769 | |
| 24 | 52,725,000 | 52,875,000 | 704 | 913 | -0.047782121 | |
| 24 | 52,800,000 | 52,950,000 | 705 | 1178 | 0.713632819 | |
| 24 | 52,875,000 | 53,025,000 | 706 | 1584 | 1.091602903 | |
| 24 | 52,950,000 | 53,100,000 | 707 | 1660 | 0.854099152 | |
| 24 | 53,025,000 | 53,175,000 | 708 | 1785 | 0.419075265 | |
| 24 | 53,100,000 | 53,250,000 | 709 | 1483 | -0.850380829 | |
| 24 | 53,175,000 | 53,325,000 | 710 | 1065 | -2.306650665 | |
| 24 | 53,250,000 | 53,400,000 | 711 | 930 | -4.048425054 | |
| 24 | 53,325,000 | 53,475,000 | 712 | 813 | -4.234722192 | |
| 24 | 53,400,000 | 53,550,000 | 713 | 1183 | -0.225679553 | |
| 24 | 53,475,000 | 53,625,000 | 714 | 1857 | 0.933387028 | |
| 24 | 53,550,000 | 53,700,000 | 715 | 1618 | 0.954986825 | |
| 24 | 53,625,000 | 53,775,000 | 716 | 1044 | 0.336016576 | |
| 24 | 53,700,000 | 53,850,000 | 717 | 1020 | 0.644038685 | |
| 24 | 53,775,000 | 53,925,000 | 718 | 1126 | 0.905981757 | |
| 24 | 53,850,000 | 54,000,000 | 719 | 1118 | 0.1372581 | |
| 24 | 53,925,000 | 54,075,000 | 720 | 1026 | 0.238587744 | MBD2 |
| 24 | 54,000,000 | 54,150,000 | 721 | 861 | 0.288243579 | MBD2 |
| 24 | 54,075,000 | 54,225,000 | 722 | 999 | 0.500333312 | C18orf54,MBD2,POLI,STARD6 |
| 24 | 54,150,000 | 54,300,000 | 723 | 1153 | 0.988834231 | C18orf54,POLI,STARD6,ENSBTAG00000046901 |
| 24 | 54,225,000 | 54,375,000 | 724 | 1139 | 0.917909471 | C18orf54,ENSBTAG00000046901 |
| 24 | 54,300,000 | 54,450,000 | 725 | 1430 | 0.541863766 | |
| 24 | 54,375,000 | 54,525,000 | 726 | 1773 | 0.44673588 | ENSBTAG00000013871 |
| 24 | 54,450,000 | 54,600,000 | 727 | 1799 | 0.354413872 | RAB27B,ENSBTAG00000013871 |
| 24 | 54,525,000 | 54,675,000 | 728 | 1489 | 0.729425198 | RAB27B |
| 24 | 54,600,000 | 54,750,000 | 729 | 1021 | 1.141647919 | CCDC68,RAB27B |
| 24 | 54,675,000 | 54,825,000 | 730 | 1018 | 0.384435355 | CCDC68,RAB27B |
| 24 | 54,750,000 | 54,900,000 | 731 | 933 | 0.030185241 | CCDC68 |
| 24 | 54,825,000 | 54,975,000 | 732 | 548 | 0.143843703 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 24 | 54,900,000 | 55,050,000 | 733 | 710 | 0.59062142 | |
| 24 | 54,975,000 | 55,125,000 | 734 | 641 | 0.241566071 | TCF7L2 |
| 24 | 55,050,000 | 55,200,000 | 735 | 331 | -2.277330795 | TCF7L2 |
| 24 | 55,125,000 | 55,275,000 | 736 | 305 | -4.154027254 | TCF7L2 |
| 24 | 55,200,000 | 55,350,000 | 737 | 384 | -1.428401974 | TCF7L2 |
| 24 | 55,275,000 | 55,425,000 | 738 | 415 | -0.337273359 | TCF7L2 |
| 24 | 55,350,000 | 55,500,000 | 739 | 567 | 0.121347555 | TCF7L2 |
| 24 | 55,425,000 | 55,575,000 | 740 | 916 | 1.145933031 | TCF7L2 |
| 24 | 55,500,000 | 55,650,000 | 741 | 874 | 1.366219286 | |
| 24 | 55,575,000 | 55,725,000 | 742 | 665 | 1.076263114 | |
| 24 | 55,650,000 | 55,800,000 | 743 | 721 | 0.312626047 | |
| 24 | 55,725,000 | 55,875,000 | 744 | 915 | 0.435605501 | |
| 24 | 55,800,000 | 55,950,000 | 745 | 1109 | 0.218180501 | |
| 24 | 55,875,000 | 56,025,000 | 746 | 1343 | 0.062532945 | |
| 24 | 55,950,000 | 56,100,000 | 747 | 1352 | 0.688006865 | |
| 24 | 56,025,000 | 56,175,000 | 748 | 1182 | 0.533427288 | |
| 24 | 56,100,000 | 56,250,000 | 749 | 806 | -0.863390068 | |
| 24 | 56,175,000 | 56,325,000 | 750 | 455 | -2.305625052 | |
| 24 | 56,250,000 | 56,400,000 | 751 | 378 | -1.082289166 | |
| 24 | 56,325,000 | 56,475,000 | 752 | 468 | -2.404973002 | TXNL1,WDR7 |
| 24 | 56,400,000 | 56,550,000 | 753 | 540 | -1.97278115 | TXNL1,WDR7 |
| 24 | 56,475,000 | 56,625,000 | 754 | 548 | 0.345455156 | WDR7 |
| 24 | 56,550,000 | 56,700,000 | 755 | 545 | 0.026327962 | WDR7 |
| 24 | 56,625,000 | 56,775,000 | 756 | 469 | -1.986320341 | WDR7 |
| 24 | 56,700,000 | 56,850,000 | 757 | 569 | -0.749044783 | WDR7 |
| 24 | 56,775,000 | 56,925,000 | 758 | 734 | 0.009275296 | WDR7 |
| 24 | 56,850,000 | 57,000,000 | 759 | 701 | 0.044813797 | |
| 24 | 56,925,000 | 57,075,000 | 760 | 682 | 0.51445344 | |
| 24 | 57,000,000 | 57,150,000 | 761 | 704 | 0.529222418 | ST8SIA3 |
| 24 | 57,075,000 | 57,225,000 | 762 | 602 | 0.697432072 | ONECUT2,ST8SIA3 |
| 24 | 57,150,000 | 57,300,000 | 763 | 548 | 0.821703974 | FECH,ONECUT2 |
| 24 | 57,225,000 | 57,375,000 | 764 | 554 | 0.635850117 | FECH,ONECUT2,ENSBTAG00000019271 |
| 24 | 57,300,000 | 57,450,000 | 765 | 604 | 0.603639287 | ATP8B1,FECH,ENSBTAG00000019271 |
| 24 | 57,375,000 | 57,525,000 | 766 | 481 | 0.657477362 | ATP8B1 |
| 24 | 57,450,000 | 57,600,000 | 767 | 673 | 0.138004102 | ATP8B1 |
| 24 | 57,525,000 | 57,675,000 | 768 | 793 | 0.129082925 | |
| 24 | 57,600,000 | 57,750,000 | 769 | 726 | -0.126568714 | |
| 24 | 57,675,000 | 57,825,000 | 770 | 978 | 0.654100548 | |
| 24 | 57,750,000 | 57,900,000 | 771 | 908 | 1.127789525 | |
| 24 | 57,825,000 | 57,975,000 | 772 | 849 | 0.486403192 | NEDD4L |
| 24 | 57,900,000 | 58,050,000 | 773 | 1016 | -0.542243961 | NEDD4L |
| 24 | 57,975,000 | 58,125,000 | 774 | 1475 | -1.723275494 | ALPK2,NEDD4L |
| 24 | 58,050,000 | 58,200,000 | 775 | 1577 | -0.962857195 | ALPK2,NEDD4L |
| 24 | 58,125,000 | 58,275,000 | 776 | 901 | 0.276727596 | ALPK2 |
| 24 | 58,200,000 | 58,350,000 | 777 | 450 | 1.009890144 | ALPK2,MALT1 |
| 24 | 58,275,000 | 58,425,000 | 778 | 535 | -0.000182876 | MALT1 |
| 24 | 58,350,000 | 58,500,000 | 779 | 648 | -0.6050019 | ZNF532 |
| 24 | 58,425,000 | 58,575,000 | 780 | 867 | -2.609638228 | ZNF532,ENSBTAG00000022829 |
| 24 | 58,500,000 | 58,650,000 | 781 | 1143 | -1.406645517 | ZNF532,ENSBTAG00000022829 |
| 24 | 58,575,000 | 58,725,000 | 782 | 1277 | 0.48669225 | GRP,SEC11C,ENSBTAG00000022829 |
| 24 | 58,650,000 | 58,800,000 | 783 | 1068 | 0.648297707 | CPLX4,GRP,LMAN1,RAX,SEC11C |
| 24 | 58,725,000 | 58,875,000 | 784 | 697 | 0.573822514 | CPLX4,LMAN1,RAX |
| 24 | 58,800,000 | 58,950,000 | 785 | 811 | 0.499605574 | CCBE1,LMAN1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 58,875,000 | 59,025,000 | 786 | 970 | 0.85856928 | CCBE1 |
| 24 | 58,950,000 | 59,100,000 | 787 | 1018 | 0.646328468 | |
| 24 | 59,025,000 | 59,175,000 | 788 | 960 | 0.587916355 | |
| 24 | 59,100,000 | 59,250,000 | 789 | 954 | 0.589813932 | |
| 24 | 59,175,000 | 59,325,000 | 790 | 968 | 0.424357378 | |
| 24 | 59,250,000 | 59,400,000 | 791 | 1207 | 0.641092785 | |
| 24 | 59,325,000 | 59,475,000 | 792 | 1757 | 0.998915888 | |
| 24 | 59,400,000 | 59,550,000 | 793 | 1781 | 1.1477128 | |
| 24 | 59,475,000 | 59,625,000 | 794 | 1048 | 1.04974882 | |
| 24 | 59,550,000 | 59,700,000 | 795 | 583 | 0.93736708 | MC4R |
| 24 | 59,625,000 | 59,775,000 | 796 | 716 | 0.247234924 | MC4R |
| 24 | 59,700,000 | 59,850,000 | 797 | 915 | 0.710967117 | ENSBTAG00000000531 |
| 24 | 59,775,000 | 59,925,000 | 798 | 1121 | 1.036329587 | ENSBTAG00000000531 |
| 24 | 59,850,000 | 60,000,000 | 799 | 916 | 0.942636837 | |
| 24 | 59,925,000 | 60,075,000 | 800 | 902 | 0.589129007 | |
| 24 | 60,000,000 | 60,150,000 | 801 | 1053 | 0.644552927 | |
| 24 | 60,075,000 | 60,225,000 | 802 | 862 | 1.123455741 | |
| 24 | 60,150,000 | 60,300,000 | 803 | 643 | 1.289303623 | |
| 24 | 60,225,000 | 60,375,000 | 804 | 580 | 0.708640909 | ENSBTAG00000047569 |
| 24 | 60,300,000 | 60,450,000 | 805 | 793 | 0.304392517 | ENSBTAG00000047569 |
| 24 | 60,375,000 | 60,525,000 | 806 | 775 | -0.216273425 | |
| 24 | 60,450,000 | 60,600,000 | 807 | 1065 | 0.490881308 | CDH20 |
| 24 | 60,525,000 | 60,675,000 | 808 | 1242 | 0.348604096 | CDH20 |
| 24 | 60,600,000 | 60,750,000 | 809 | 858 | -0.449521603 | |
| 24 | 60,675,000 | 60,825,000 | 810 | 931 | 0.599793278 | |
| 24 | 60,750,000 | 60,900,000 | 811 | 1035 | 0.896181508 | |
| 24 | 60,825,000 | 60,975,000 | 812 | 963 | 0.977971684 | |
| 24 | 60,900,000 | 61,050,000 | 813 | 905 | 0.908818341 | PIGN |
| 24 | 60,975,000 | 61,125,000 | 814 | 700 | 0.586977054 | KIAA1468,PIGN |
| 24 | 61,050,000 | 61,200,000 | 815 | 502 | 0.464391618 | KIAA1468,PIGN |
| 24 | 61,125,000 | 61,275,000 | 816 | 693 | -0.095806624 | KIAA1468,TNFRSF11A |
| 24 | 61,200,000 | 61,350,000 | 817 | 1117 | -0.241376352 | KIAA1468,TNFRSF11A |
| 24 | 61,275,000 | 61,425,000 | 818 | 987 | 0.206784426 | TNFRSF11A |
| 24 | 61,350,000 | 61,500,000 | 819 | 906 | 0.56893656 | |
| 24 | 61,425,000 | 61,575,000 | 820 | 1335 | 0.566843996 | |
| 24 | 61,500,000 | 61,650,000 | 821 | 1691 | 0.332558888 | |
| 24 | 61,575,000 | 61,725,000 | 822 | 1403 | -0.147626831 | PHLPP1 |
| 24 | 61,650,000 | 61,800,000 | 823 | 1056 | -0.484219822 | PHLPP1 |
| 24 | 61,725,000 | 61,875,000 | 824 | 1234 | -0.024298149 | PHLPP1 |
| 24 | 61,800,000 | 61,950,000 | 825 | 1158 | 0.085559423 | BCL2 |
| 24 | 61,875,000 | 62,025,000 | 826 | 884 | -0.284737909 | BCL2 |
| 24 | 61,950,000 | 62,100,000 | 827 | 712 | 0.157593143 | BCL2 |
| 24 | 62,025,000 | 62,175,000 | 828 | 508 | 0.445556751 | BCL2,KDSR |
| 24 | 62,100,000 | 62,250,000 | 829 | 789 | -0.255622826 | BCL2,KDSR,SERPINB5,VPS4B |
| 24 | 62,175,000 | 62,325,000 | 830 | 1311 | -0.375991786 | SERPINB12,SERPINB5,VPS4B |
| 24 | 62,250,000 | 62,400,000 | 831 | 1182 | -0.474315266 | HMSD,SERPINB12,SERPINB13,SERPINB4,SERPINB5,ENSBTAG00000037554 |
| 24 | 62,325,000 | 62,475,000 | 832 | 1490 | -0.134140328 | HMSD,SERPINB12,SERPINB13,SERPINB4,ENSBTAG000035224,ENSBTAG00000037554,ENSBTAG00000040586 |
| 24 | 62,400,000 | 62,550,000 | 833 | 1641 | -0.234437311 | SERPINB7,ENSBTAG0000005324,ENSBTAG00000035224,ENSBTAG00000037554,ENSBTAG00000040586 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 24 | 62,475,000 | 62,625,000 | 834 | 1238 | -0.415372489 | SERPINB10,SERPINB2,SERPINB7,ENSBTAG00000005324 |
| 24 | 62,550,000 | 62,700,000 | 835 | 1314 | 0.0778839 | SERPINB10,SERPINB2 |
| 24 | 62,625,000 | 62,714,930 | 836 | 728 | -0.534893283 | SERPINB10 |
| 25 | 0 | 150,000 | 1 | 304 | -2.617233508 | IL9R,MPG,NPRL3,POLR3K,RHBDF1,SNRNP25 |
| 25 | 75,000 | 225,000 | 2 | 311 | -3.047490125 | HBA,HBM,HBQ1,IL9R,MPG,NPRL3,POLR3K,RHBDF1,SNRNP25,ENSBTAG00000032198,ENSBTAG00000034024,ENSBTAG00000038921 |
| 25 | 150,000 | 300,000 | 3 | 326 | -1.239051826 | HBA,HBM,HBQ1,ITFG3,LUC7L,NPRL3,RGS11,ENSBTAG00000032198,ENSBTAG00000034024,ENSBTAG00000038921 |
| 25 | 225,000 | 375,000 | 4 | 390 | -0.401479697 | ARHGDIG,AXIN1,ITFG3,LUC7L,MRPL28,PDIA2,RGS11,TMEM8 |
| 25 | 300,000 | 450,000 | 5 | 347 | -1.145462645 | ARHGDIG,AXIN1,DECR2,MRPL28,NME4,PDIA2,RAB11FIP3,TMEM8 |
| 25 | 375,000 | 525,000 | 6 | 276 | -1.79389528 | CAPN15,DECR2,NHLRC4,NME4,PIGQ,PRR35,RAB11FIP3,RAB40C |
| 25 | 450,000 | 600,000 | 7 | 249 | -1.983113637 | C25H16ORF13,CAPN15,FAM195A,FBXL16,JMJD8,NHLRC4,PIGQ,PRR35,RAB11FIP3,RAB40C,RHBDL1,RHOT2,STUB1,WDR24,WDR90,WFIKKN1,ENSBTAG00000038330 |
| 25 | 525,000 | 675,000 | 8 | 522 | 0.360142935 | C25H16ORF13,CCDC78,CHTF18,FAM173A,FAM195A,FBXL16,HAGHL,JMJD8,METRNL,MSLN,MSLNL,NARFL,RAB40C,RHBDL1,RHOT2,RPUSD1,STUB1,WDR24,WDR90,WFIKKN1,ENSBTAG00000038330 |
| 25 | 600,000 | 750,000 | 9 | 738 | 0.322314226 | CCDC78,CHTF18,FAM173A,FBXL16,GNG13,HAGHL,LMF1,METRNL,MSLN,MSLNL,NARFL,RPUSD1 |
| 25 | 675,000 | 825,000 | 10 | 525 | -0.030168434 | CHTF18,GNG13,LMF1,SOX8 |
| 25 | 750,000 | 900,000 | 11 | 371 | 0.133374951 | C1QTNF8,LMF1,SOX8,SSTR5,TEKT4 |
| 25 | 825,000 | 975,000 | 12 | 431 | 0.068026133 | C1QTNF8,CACNA1H,SSTR5,TEKT4 |
| 25 | 900,000 | 1,050,000 | 13 | 592 | -0.99874041 | CACNA1H,TPSB1,UBE2I,ENSBTAG00000046722,ENSBTAG00000046965 |
| 25 | 975,000 | 1,125,000 | 14 | 1015 | -1.282747652 | BAIAP3,C25H16ORF42,CACNA1H,CCSMST1,GNPTG,TPSB1,UBE2I,UNKL,ENSBTAG00000046722,ENSBTAG00000046965 |
| 25 | 1,050,000 | 1,200,000 | 15 | 1144 | -0.581604693 | BAIAP3,C25H16ORF42,CCDC154,CCSMST1,CLCN7,GNPTG,IFT140,PTX4,TELO2,TMEM204,UNKL |
| 25 | 1,125,000 | 1,275,000 | 16 | 854 | 0.63519964 | CCDC154,CLCN7,CRAMP1L,IFT140,PTX4,TELO2,TMEM204 |
| 25 | 1,200,000 | 1,350,000 | 17 | 834 | 0.68768676 | CRAMP1L,HN1L,IFT140,MAPK8IP3,MRPS34,NME3,TMEM204 |
| 25 | 1,275,000 | 1,425,000 | 18 | 823 | 0.6879718 | CRAMP1L,EME2,FAHD1,HAGH,HN1L,IGFALS,MAPK8IP3,MEIOB,MRPS34,NME3,NUBP2,SPSB3,TPT1 |
| 25 | 1,350,000 | 1,500,000 | 19 | 915 | 0.046664338 | EME2,FAHD1,HAGH,HS3ST6,IGFALS,MEIOB,MRPS34,NUBP2,SPSB3,TPT1 |
| 25 | 1,425,000 | 1,575,000 | 20 | 635 | -0.20523633 | GFER,HS3ST6,MEIOB,NDUFB10,NOXO1,NPW,RNF151,RPL3L,RPS2,SYNGR3,TBL3,ZNF598 |
| 25 | 1,500,000 | 1,650,000 | 21 | 214 | -0.068777013 | GFER,NDUFB10,NOXO1,NPW,NTHL1,PKD1,RNF151,RPL3L,RPS2,SLC9A3R2,SYNGR3,TBL3,TSC2,ZNF598 |
| 25 | 1,575,000 | 1,725,000 | 22 | 253 | 0.766648481 | CASKIN1,NTHL1,PKD1,RAB26,SLC9A3R2,TRAF7,TSC2 |
| 25 | 1,650,000 | 1,800,000 | 23 | 461 | 1.220494955 | ABCA3,BRICD5,CASKIN1,DNASE1L2,E4F1,ECI1,MLST8,PGP,PKD1,RAB26,RNPS1,TRAF7 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 25 | 1,725,000 | 1,875,000 | 24 | 711 | 1.200129513 | ABCA3,BRICD5,CASKIN1,DNASE1L2,E4F1,ECI1,MLST8,PGP,RNPS1,ENSBTAG00000034643 |
| 25 | 1,800,000 | 1,950,000 | 25 | 754 | 0.665204671 | ABCA3,CCNF,ENSBTAG00000034643 |
| 25 | 1,875,000 | 2,025,000 | 26 | 533 | -0.001837568 | AMDHD2,ATP6V0C,C16orf59,CCNF,NTN3,ENSBTAG0000005458,ENSBTAG00000034643 |
| 25 | 1,950,000 | 2,100,000 | 27 | 502 | -0.264151958 | AMDHD2,ATP6V0C,C16orf59,CCNF,NTN3,PDPK1,ENSBTAG00000005458 |
| 25 | 2,025,000 | 2,175,000 | 28 | 718 | -0.976485852 | AMDHD2,KCTD5,PDPK1,PRSS27 |
| 25 | 2,100,000 | 2,250,000 | 29 | 1136 | 0.024321971 | KCTD5,PRSS21,PRSS22,PRSS27,ENSBTAG00000019103,ENSBTAG00000034372,ENSBTAG00000047368 |
| 25 | 2,175,000 | 2,325,000 | 30 | 1019 | 0.165887825 | FLYWCH2,PRSS21,PRSS22,PRSS33,SRRM2,TCEB2,ENSBTAG00000019103,ENSBTAG00000034372,ENSBTAG00000038568,ENSBTAG00000047368 |
| 25 | 2,250,000 | 2,400,000 | 31 | 367 | -0.601083933 | FLYWCH1,FLYWCH2,KREMEN2,PAQR4,PKMYT1,PRSS33,SRRM2,TCEB2,ENSBTAG00000038568 |
| 25 | 2,325,000 | 2,475,000 | 32 | 263 | 1.007194143 | CCDC64B,CLDN6,CLDN9,FLYWCH1,FLYWCH2,HCFC1R1,KREMEN2,PAQR4,PKMYT1,THOC6,TNFRSF12A |
| 25 | 2,400,000 | 2,550,000 | 33 | 624 | 0.259993784 | CCDC64B,CLDN6,CLDN9,HCFC1R1,MMP25,THOC6,TNFRSF12A,ZSCAN10 |
| 25 | 2,475,000 | 2,625,000 | 34 | 686 | -0.192932314 | CASP16,MMP25,ZNF205,ZNF213,ZSCAN10 |
| 25 | 2,550,000 | 2,700,000 | 35 | 839 | -0.244229434 | CASP16,MEFV,ZNF200,ZNF205,ZNF213,ENSBTAG00000040438,ENSBTAG00000046326,ENSBTAG00000047634 |
| 25 | 2,625,000 | 2,775,000 | 36 | 1247 | 0.393422277 | MEFV,TIGD7,ZNF200,ZNF263,ZNF75A,ENSBTAG00000040438,ENSBTAG00000046326,ENSBTAG00000047634 |
| 25 | 2,700,000 | 2,850,000 | 37 | 1380 | 0.998021836 | MEFV,OR2C1,TIGD7,ZNF174,ZNF263,ZNF75A |
| 25 | 2,775,000 | 2,925,000 | 38 | 972 | 1.253059927 | C16orf90,CLUAP1,NAT15,OR2C1,ZNF174,ZNF597 |
| 25 | 2,850,000 | 3,000,000 | 39 | 376 | 1.108320177 | C16orf90,CLUAP1,DNASE1,NAT15,NLRC3,SLX4,TRAP1,ZNF597 |
| 25 | 2,925,000 | 3,075,000 | 40 | 311 | 0.602434948 | CREBBP,DNASE1,NLRC3,SLX4,TRAP1 |
| 25 | 3,000,000 | 3,150,000 | 41 | 357 | -0.426556007 | CREBBP,TRAP1 |
| 25 | 3,075,000 | 3,225,000 | 42 | 372 | -0.18902539 | CREBBP |
| 25 | 3,150,000 | 3,300,000 | 43 | 330 | 0.736094599 | ADCY9,CREBBP |
| 25 | 3,225,000 | 3,375,000 | 44 | 249 | -0.480949527 | ADCY9 |
| 25 | 3,300,000 | 3,450,000 | 45 | 357 | -1.452656358 | ADCY9,SRL,TFAP4 |
| 25 | 3,375,000 | 3,525,000 | 46 | 516 | -1.247014095 | CORO7,GLIS2,PAM16,SRL,TFAP4,VASN |
| 25 | 3,450,000 | 3,600,000 | 47 | 624 | -0.076802595 | CORO7,DNAJA3,GLIS2,PAM16,TFAP4,VASN |
| 25 | 3,525,000 | 3,675,000 | 48 | 754 | 0.266252169 | CDIP1,CORO7,DNAJA3,HMOX2,NMRAL1,VASN |
| 25 | 3,600,000 | 3,750,000 | 49 | 909 | 0.12277765 | CDIP1,DNAJA3,HMOX2,MGC142811,NMRAL1,ENSBTAG00000047316 |
| 25 | 3,675,000 | 3,825,000 | 50 | 901 | 0.312886193 | ANKS3,C25H16ORF71,MGC142811,MGRN1,NUDT16L1,ENSBTAG00000047316 |
| 25 | 3,750,000 | 3,900,000 | 51 | 645 | 0.311771814 | ANKS3,C25H16ORF71,MGRN1,NUDT16L1,ROGDI,SEPT12,ZNF500 |
| 25 | 3,825,000 | 3,975,000 | 52 | 637 | 0.320575931 | C25H16ORF71,GLYR1,PPL,ROGDI,SEPT12,UBN1,ZNF500 |
| 25 | 3,900,000 | 4,050,000 | 53 | 974 | 0.582304812 | GLYR1,PPL,ROGDI,SEC14L5,UBN1 |
| 25 | 3,975,000 | 4,125,000 | 54 | 1064 | 0.317694744 | ALG1,C16orf89,FAM86A,NAGPA,PPL,SEC14L5 |
| 25 | 4,050,000 | 4,200,000 | 55 | 1197 | 0.245560574 | ALG1,C16orf89,FAM86A,NAGPA,SEC14L5,ENSBTAG0000026383 |
| 25 | 4,125,000 | 4,275,000 | 56 | 1416 | -0.739870926 | FAM86A,ENSBTAG00000026383 |
| 25 | 4,200,000 | 4,350,000 | 57 | 1608 | -0.810567334 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--------------------------------|
| 25 | 4,275,000 | 4,425,000 | 58 | 1721 | 0.356374745 | |
| 25 | 4,350,000 | 4,500,000 | 59 | 1285 | 0.967962015 | |
| 25 | 4,425,000 | 4,575,000 | 60 | 810 | 0.023837144 | |
| 25 | 4,500,000 | 4,650,000 | 61 | 802 | 0.493097363 | |
| 25 | 4,575,000 | 4,725,000 | 62 | 1078 | 0.555561474 | |
| 25 | 4,650,000 | 4,800,000 | 63 | 1174 | -0.298253683 | |
| 25 | 4,725,000 | 4,875,000 | 64 | 1025 | -0.794615638 | |
| 25 | 4,800,000 | 4,950,000 | 65 | 1040 | -0.87351861 | |
| 25 | 4,875,000 | 5,025,000 | 66 | 998 | 0.043250362 | |
| 25 | 4,950,000 | 5,100,000 | 67 | 799 | 1.037577796 | |
| 25 | 5,025,000 | 5,175,000 | 68 | 1083 | 0.61396583 | |
| 25 | 5,100,000 | 5,250,000 | 69 | 1281 | -0.29790813 | |
| 25 | 5,175,000 | 5,325,000 | 70 | 877 | -0.695898674 | |
| 25 | 5,250,000 | 5,400,000 | 71 | 793 | -0.028650479 | |
| 25 | 5,325,000 | 5,475,000 | 72 | 907 | 0.27874671 | |
| 25 | 5,400,000 | 5,550,000 | 73 | 1149 | 0.613411857 | |
| 25 | 5,475,000 | 5,625,000 | 74 | 1145 | 0.358139239 | |
| 25 | 5,550,000 | 5,700,000 | 75 | 1005 | -0.392468972 | |
| 25 | 5,625,000 | 5,775,000 | 76 | 1124 | -0.260813373 | |
| 25 | 5,700,000 | 5,850,000 | 77 | 1022 | -0.120660008 | |
| 25 | 5,775,000 | 5,925,000 | 78 | 1438 | 0.393441926 | |
| 25 | 5,850,000 | 6,000,000 | 79 | 1550 | 0.686818785 | |
| 25 | 5,925,000 | 6,075,000 | 80 | 1034 | 0.486028099 | |
| 25 | 6,000,000 | 6,150,000 | 81 | 1248 | 0.190732479 | |
| 25 | 6,075,000 | 6,225,000 | 82 | 1211 | 0.279161698 | |
| 25 | 6,150,000 | 6,300,000 | 83 | 859 | 1.002420137 | |
| 25 | 6,225,000 | 6,375,000 | 84 | 1024 | 0.537562236 | |
| 25 | 6,300,000 | 6,450,000 | 85 | 1086 | -1.438132167 | |
| 25 | 6,375,000 | 6,525,000 | 86 | 974 | -0.662606093 | RBFOX1 |
| 25 | 6,450,000 | 6,600,000 | 87 | 777 | 0.633958597 | RBFOX1 |
| 25 | 6,525,000 | 6,675,000 | 88 | 657 | 0.036632789 | RBFOX1 |
| 25 | 6,600,000 | 6,750,000 | 89 | 1102 | 0.072856618 | RBFOX1 |
| 25 | 6,675,000 | 6,825,000 | 90 | 1298 | 0.472236099 | RBFOX1 |
| 25 | 6,750,000 | 6,900,000 | 91 | 1370 | 1.054997211 | |
| 25 | 6,825,000 | 6,975,000 | 92 | 1539 | 0.863301117 | |
| 25 | 6,900,000 | 7,050,000 | 93 | 1439 | 0.722802866 | |
| 25 | 6,975,000 | 7,125,000 | 94 | 1406 | 0.87316593 | |
| 25 | 7,050,000 | 7,200,000 | 95 | 1313 | -0.128847379 | |
| 25 | 7,125,000 | 7,275,000 | 96 | 1278 | 0.364210205 | |
| 25 | 7,200,000 | 7,350,000 | 97 | 1049 | 1.168741895 | |
| 25 | 7,275,000 | 7,425,000 | 98 | 968 | 0.591043329 | |
| 25 | 7,350,000 | 7,500,000 | 99 | 1052 | -0.490044536 | |
| 25 | 7,425,000 | 7,575,000 | 100 | 896 | -0.887522849 | METTL22,TMEM114 |
| 25 | 7,500,000 | 7,650,000 | 101 | 886 | -0.403345327 | ABAT,METTL22,TMEM114 |
| 25 | 7,575,000 | 7,725,000 | 102 | 658 | -0.571701601 | ABAT,METTL22,PMM2,TMEM186 |
| 25 | 7,650,000 | 7,800,000 | 103 | 336 | 0.163250401 | ABAT,CARHSP1,PMM2,TMEM186,USP7 |
| 25 | 7,725,000 | 7,875,000 | 104 | 458 | 0.822690022 | CARHSP1,PMM2,USP7 |
| 25 | 7,800,000 | 7,950,000 | 105 | 675 | 0.805719967 | C25H16ORF72 |
| 25 | 7,875,000 | 8,025,000 | 106 | 861 | 0.933695617 | C25H16ORF72 |
| 25 | 7,950,000 | 8,100,000 | 107 | 1057 | 0.565467218 | C25H16ORF72 |
| 25 | 8,025,000 | 8,175,000 | 108 | 1288 | -0.357063712 | |
| 25 | 8,100,000 | 8,250,000 | 109 | 1238 | -0.525964799 | |
| 25 | 8,175,000 | 8,325,000 | 110 | 1195 | 0.426500456 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 25 | 8,250,000 | 8,400,000 | 111 | 1189 | 0.877692821 | |
| 25 | 8,325,000 | 8,475,000 | 112 | 864 | 0.739686462 | |
| 25 | 8,400,000 | 8,550,000 | 113 | 803 | 0.439729718 | |
| 25 | 8,475,000 | 8,625,000 | 114 | 725 | 0.40250336 | GRIN2A |
| 25 | 8,550,000 | 8,700,000 | 115 | 477 | 0.354662427 | GRIN2A |
| 25 | 8,625,000 | 8,775,000 | 116 | 820 | 0.311652119 | GRIN2A |
| 25 | 8,700,000 | 8,850,000 | 117 | 1333 | 0.58091303 | |
| 25 | 8,775,000 | 8,925,000 | 118 | 1560 | 0.94734838 | |
| 25 | 8,850,000 | 9,000,000 | 119 | 1122 | 0.927412073 | ENSBTAG00000045680 |
| 25 | 8,925,000 | 9,075,000 | 120 | 1029 | 0.471248543 | ENSBTAG00000045680 |
| 25 | 9,000,000 | 9,150,000 | 121 | 1292 | 0.761838894 | |
| 25 | 9,075,000 | 9,225,000 | 122 | 864 | 0.238897902 | |
| 25 | 9,150,000 | 9,300,000 | 123 | 458 | -0.36975909 | ATF7IP2 |
| 25 | 9,225,000 | 9,375,000 | 124 | 790 | 0.679177978 | ATF7IP2,EMP2 |
| 25 | 9,300,000 | 9,450,000 | 125 | 1187 | 0.230451802 | EMP2,TEKT5 |
| 25 | 9,375,000 | 9,525,000 | 126 | 1189 | 0.176157302 | NUBP1,TEKT5,TVP23A |
| 25 | 9,450,000 | 9,600,000 | 127 | 1072 | 0.703362106 | NUBP1,TEKT5,TVP23A |
| 25 | 9,525,000 | 9,675,000 | 128 | 1225 | 0.674818009 | CIITA,DEXI |
| 25 | 9,600,000 | 9,750,000 | 129 | 1222 | -0.023159985 | CIITA,CLEC16A,DEXI |
| 25 | 9,675,000 | 9,825,000 | 130 | 821 | -0.413010515 | CLEC16A,DEXI |
| 25 | 9,750,000 | 9,900,000 | 131 | 802 | 0.082285329 | CLEC16A |
| 25 | 9,825,000 | 9,975,000 | 132 | 785 | -0.473103284 | CLEC16A |
| 25 | 9,900,000 | 10,050,000 | 133 | 923 | -0.89689477 | CLEC16A,PRM1,PRM2,PRM3,SOCS1,TNP2 |
| 25 | 9,975,000 | 10,125,000 | 134 | 1087 | -0.60086097 | PRM1,PRM2,PRM3,RMI2,SOCS1,TNP2 |
| 25 | 10,050,000 | 10,200,000 | 135 | 1178 | -0.065157961 | RMI2,ENSBTAG00000013305 |
| 25 | 10,125,000 | 10,275,000 | 136 | 1116 | 0.147430107 | ENSBTAG00000013305 |
| 25 | 10,200,000 | 10,350,000 | 137 | 771 | 0.192845363 | LITAF,ENSBTAG00000013305 |
| 25 | 10,275,000 | 10,425,000 | 138 | 615 | -0.537517514 | LITAF,SNN |
| 25 | 10,350,000 | 10,500,000 | 139 | 936 | -0.32605983 | SNN,TXNDC11,ZC3H7A |
| 25 | 10,425,000 | 10,575,000 | 140 | 1071 | 0.092203887 | SNN,TXNDC11,ZC3H7A |
| 25 | 10,500,000 | 10,650,000 | 141 | 860 | 0.648966269 | BCAR4,GSPT1,RSL1D1,ZC3H7A |
| 25 | 10,575,000 | 10,725,000 | 142 | 736 | 0.81437377 | BCAR4,GSPT1,RSL1D1,ENSBTAG00000007295 |
| 25 | 10,650,000 | 10,800,000 | 143 | 1048 | 0.92796742 | GSPT1,SNX29,ENSBTAG00000007295 |
| 25 | 10,725,000 | 10,875,000 | 144 | 1673 | 0.64375946 | SNX29 |
| 25 | 10,800,000 | 10,950,000 | 145 | 2220 | 0.26448096 | SNX29 |
| 25 | 10,875,000 | 11,025,000 | 146 | 2348 | 0.144058898 | SNX29 |
| 25 | 10,950,000 | 11,100,000 | 147 | 1930 | 0.164814839 | SNX29 |
| 25 | 11,025,000 | 11,175,000 | 148 | 1440 | -0.221530958 | SNX29 |
| 25 | 11,100,000 | 11,250,000 | 149 | 1469 | -0.016578217 | SNX29 |
| 25 | 11,175,000 | 11,325,000 | 150 | 1617 | 0.004353816 | SNX29 |
| 25 | 11,250,000 | 11,400,000 | 151 | 1412 | -0.366660572 | SNX29 |
| 25 | 11,325,000 | 11,475,000 | 152 | 1553 | -0.006215154 | ENSBTAG00000046216 |
| 25 | 11,400,000 | 11,550,000 | 153 | 1453 | -0.447908745 | CPPED1,ENSBTAG00000046216 |
| 25 | 11,475,000 | 11,625,000 | 154 | 1426 | -1.016865554 | CPPED1 |
| 25 | 11,550,000 | 11,700,000 | 155 | 1334 | -0.852329165 | CPPED1 |
| 25 | 11,625,000 | 11,775,000 | 156 | 1177 | 0.407545936 | SHISA9 |
| 25 | 11,700,000 | 11,850,000 | 157 | 1621 | 0.384212205 | SHISA9 |
| 25 | 11,775,000 | 11,925,000 | 158 | 1470 | 0.383850988 | |
| 25 | 11,850,000 | 12,000,000 | 159 | 1414 | 0.818208302 | |
| 25 | 11,925,000 | 12,075,000 | 160 | 1441 | 0.869762549 | |
| 25 | 12,000,000 | 12,150,000 | 161 | 1005 | 0.607148219 | |
| 25 | 12,075,000 | 12,225,000 | 162 | 1095 | 0.650511539 | |
| 25 | 12,150,000 | 12,300,000 | 163 | 1115 | 0.798665645 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 25 | 12,225,000 | 12,375,000 | 164 | 1102 | 0.741353947 | |
| 25 | 12,300,000 | 12,450,000 | 165 | 1262 | 0.204381228 | |
| 25 | 12,375,000 | 12,525,000 | 166 | 1347 | 0.440490135 | |
| 25 | 12,450,000 | 12,600,000 | 167 | 1083 | 0.823001531 | |
| 25 | 12,525,000 | 12,675,000 | 168 | 720 | 1.262710345 | |
| 25 | 12,600,000 | 12,750,000 | 169 | 1004 | 0.620819138 | |
| 25 | 12,675,000 | 12,825,000 | 170 | 864 | -0.376532812 | |
| 25 | 12,750,000 | 12,900,000 | 171 | 546 | -0.484182792 | |
| 25 | 12,825,000 | 12,975,000 | 172 | 685 | 0.409721598 | ERCC4,ENSBTAG00000032643 |
| 25 | 12,900,000 | 13,050,000 | 173 | 760 | 0.607960851 | ERCC4,ENSBTAG00000032643 |
| 25 | 12,975,000 | 13,125,000 | 174 | 603 | 0.805978699 | MKL2,ENSBTAG00000026365 |
| 25 | 13,050,000 | 13,200,000 | 175 | 346 | 0.749314139 | MKL2,ENSBTAG00000026365 |
| 25 | 13,125,000 | 13,275,000 | 176 | 284 | 1.090109665 | MKL2 |
| 25 | 13,200,000 | 13,350,000 | 177 | 442 | 1.213370213 | MKL2 |
| 25 | 13,275,000 | 13,425,000 | 178 | 743 | 0.587273682 | MKL2 |
| 25 | 13,350,000 | 13,500,000 | 179 | 863 | -0.411299283 | PARN |
| 25 | 13,425,000 | 13,575,000 | 180 | 970 | -0.56492998 | PARN |
| 25 | 13,500,000 | 13,650,000 | 181 | 1080 | -0.050255216 | BFAR,PARN |
| 25 | 13,575,000 | 13,725,000 | 182 | 1160 | 0.274422651 | BFAR,PARN,PLA2G10 |
| 25 | 13,650,000 | 13,800,000 | 183 | 977 | 0.402093165 | BFAR,PLA2G10,RRN3 |
| 25 | 13,725,000 | 13,875,000 | 184 | 570 | 0.676788974 | NTAN1,PDXDC1,RRN3 |
| 25 | 13,800,000 | 13,950,000 | 185 | 756 | -0.056664346 | NTAN1,PDXDC1,RRN3,ENSBTAG00000047520 |
| 25 | 13,875,000 | 14,025,000 | 186 | 1290 | -2.619753491 | MGC140681,PDXDC1,ENSBTAG00000047520 |
| 25 | 13,950,000 | 14,100,000 | 187 | 1195 | -2.182595363 | MGC140681 |
| 25 | 14,025,000 | 14,175,000 | 188 | 758 | -0.14250511 | MARF1,MGC140681 |
| 25 | 14,100,000 | 14,250,000 | 189 | 780 | -0.422614859 | MARF1,MGC140681,MYH11,NDE1 |
| 25 | 14,175,000 | 14,325,000 | 190 | 1362 | -0.177986692 | MYH11,NDE1 |
| 25 | 14,250,000 | 14,400,000 | 191 | 1193 | -0.422158113 | FOPNL,MYH11 |
| 25 | 14,325,000 | 14,475,000 | 192 | 575 | -1.152605701 | ABCC1,FOPNL,MYH11 |
| 25 | 14,400,000 | 14,550,000 | 193 | 618 | -0.361215355 | ABCC1 |
| 25 | 14,475,000 | 14,625,000 | 194 | 812 | -0.056114579 | ABCC1,ABCC6 |
| 25 | 14,550,000 | 14,700,000 | 195 | 949 | -0.223647671 | ABCC1,ABCC6,ENSBTAG00000017759 |
| 25 | 14,625,000 | 14,775,000 | 196 | 784 | -0.256306456 | ABCC6,ENSBTAG00000017759 |
| 25 | 14,700,000 | 14,850,000 | 197 | 548 | 0.060344549 | ENSBTAG00000017759 |
| 25 | 14,775,000 | 14,925,000 | 198 | 739 | 0.81084233 | |
| 25 | 14,850,000 | 15,000,000 | 199 | 1144 | 0.804016201 | |
| 25 | 14,925,000 | 15,075,000 | 200 | 975 | 0.054812906 | |
| 25 | 15,000,000 | 15,150,000 | 201 | 824 | -1.618092966 | |
| 25 | 15,075,000 | 15,225,000 | 202 | 1136 | -1.769896251 | |
| 25 | 15,150,000 | 15,300,000 | 203 | 1193 | -0.446006675 | |
| 25 | 15,225,000 | 15,375,000 | 204 | 1059 | 0.74533668 | |
| 25 | 15,300,000 | 15,450,000 | 205 | 1166 | 1.189776851 | |
| 25 | 15,375,000 | 15,525,000 | 206 | 1379 | 0.535455639 | |
| 25 | 15,450,000 | 15,600,000 | 207 | 1414 | -0.091628144 | |
| 25 | 15,525,000 | 15,675,000 | 208 | 1199 | 0.093582772 | |
| 25 | 15,600,000 | 15,750,000 | 209 | 918 | -0.060060507 | |
| 25 | 15,675,000 | 15,825,000 | 210 | 1045 | -0.213974404 | XYLT1 |
| 25 | 15,750,000 | 15,900,000 | 211 | 907 | -0.002624788 | XYLT1 |
| 25 | 15,825,000 | 15,975,000 | 212 | 1014 | 0.514548844 | XYLT1 |
| 25 | 15,900,000 | 16,050,000 | 213 | 1552 | 0.840486512 | XYLT1 |
| 25 | 15,975,000 | 16,125,000 | 214 | 1554 | 1.024053643 | XYLT1 |
| 25 | 16,050,000 | 16,200,000 | 215 | 1568 | 1.186926134 | |
| 25 | 16,125,000 | 16,275,000 | 216 | 1765 | 0.987160652 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 16,200,000 | 16,350,000 | 217 | 1706 | 0.886394808 | |
| 25 | 16,275,000 | 16,425,000 | 218 | 2059 | 0.26703621 | |
| 25 | 16,350,000 | 16,500,000 | 219 | 2219 | 0.085048472 | |
| 25 | 16,425,000 | 16,575,000 | 220 | 1583 | 0.260581162 | ARL6IP1,RPS15A,ENSBTAG00000020735 |
| 25 | 16,500,000 | 16,650,000 | 221 | 1243 | 0.569411004 | ARL6IP1,RPS15A,ENSBTAG00000020735 |
| 25 | 16,575,000 | 16,725,000 | 222 | 1298 | 0.720129018 | ENSBTAG00000020735 |
| 25 | 16,650,000 | 16,800,000 | 223 | 1195 | -0.262070662 | CLEC19A |
| 25 | 16,725,000 | 16,875,000 | 224 | 791 | -0.097690347 | CLEC19A,SYT17 |
| 25 | 16,800,000 | 16,950,000 | 225 | 597 | -0.320546906 | CLEC19A,SYT17 |
| 25 | 16,875,000 | 17,025,000 | 226 | 803 | -0.923476508 | COQ7,ITPRIPL2,SYT17 |
| 25 | 16,950,000 | 17,100,000 | 227 | 974 | 0.40302286 | COQ7,ITPRIPL2,TMC7 |
| 25 | 17,025,000 | 17,175,000 | 228 | 824 | 0.516468232 | COQ7,TMC5,TMC7 |
| 25 | 17,100,000 | 17,250,000 | 229 | 765 | 0.857944645 | CCP110,GDE1,TMC5 |
| 25 | 17,175,000 | 17,325,000 | 230 | 803 | 1.402815342 | C16orf62,CCP110,GDE1,TMC5 |
| 25 | 17,250,000 | 17,400,000 | 231 | 1251 | 1.452063147 | C16orf62,CCP110 |
| 25 | 17,325,000 | 17,475,000 | 232 | 1402 | 1.492143961 | C16orf62,IQCK,KNOP1 |
| 25 | 17,400,000 | 17,550,000 | 233 | 749 | 1.263047136 | C16orf62,IQCK,KNOP1 |
| 25 | 17,475,000 | 17,625,000 | 234 | 807 | 1.12072385 | GPRC5B,IQCK |
| 25 | 17,550,000 | 17,700,000 | 235 | 1089 | 0.93334834 | GPRC5B,IQCK |
| 25 | 17,625,000 | 17,775,000 | 236 | 1006 | 0.298435738 | GPR139 |
| 25 | 17,700,000 | 17,850,000 | 237 | 1223 | 0.746863117 | GPR139 |
| 25 | 17,775,000 | 17,925,000 | 238 | 1440 | 1.13545858 | GPR139 |
| 25 | 17,850,000 | 18,000,000 | 239 | 1552 | 0.533451136 | |
| 25 | 17,925,000 | 18,075,000 | 240 | 1272 | -0.954525253 | |
| 25 | 18,000,000 | 18,150,000 | 241 | 1023 | -0.576915735 | GP2,PDILT,UMOD |
| 25 | 18,075,000 | 18,225,000 | 242 | 1086 | 0.272961024 | ACSM5,GP2,PDILT,UMOD |
| 25 | 18,150,000 | 18,300,000 | 243 | 777 | -0.713010009 | ACSM2A,ACSM5,PDILT |
| 25 | 18,225,000 | 18,375,000 | 244 | 644 | -0.463762938 | ACSM1,ACSM2A,ACSM5 |
| 25 | 18,300,000 | 18,450,000 | 245 | 932 | 0.314330254 | ACSM1,ACSM2A |
| 25 | 18,375,000 | 18,525,000 | 246 | 960 | -0.970974628 | ACSM1 |
| 25 | 18,450,000 | 18,600,000 | 247 | 937 | -1.323008556 | ACSM4,THUMPD1 |
| 25 | 18,525,000 | 18,675,000 | 248 | 882 | -1.100530747 | ACSM3,ACSM4,ERI2,THUMPD1,ENSBTAG00000006449 |
| 25 | 18,600,000 | 18,750,000 | 249 | 538 | -1.525459203 | ACSM3,DCUN1D3,ERI2,ENSBTAG00000006449 |
| 25 | 18,675,000 | 18,825,000 | 250 | 421 | 0.398469926 | DCUN1D3,LYRM1,ENSBTAG00000006449 |
| 25 | 18,750,000 | 18,900,000 | 251 | 739 | 0.653220912 | DCUN1D3,DNAH3,LYRM1 |
| 25 | 18,825,000 | 18,975,000 | 252 | 887 | 0.559761216 | DNAH3,LYRM1 |
| 25 | 18,900,000 | 19,050,000 | 253 | 701 | 0.723216315 | DNAH3 |
| 25 | 18,975,000 | 19,125,000 | 254 | 1000 | 0.516277796 | DNAH3 |
| 25 | 19,050,000 | 19,200,000 | 255 | 897 | 0.546224861 | DNAH3,TMEM159 |
| 25 | 19,125,000 | 19,275,000 | 256 | 382 | 0.288940266 | ANKS4B,DNAH3,TMEM159,ZP2 |
| 25 | 19,200,000 | 19,350,000 | 257 | 353 | -0.009333462 | ANKS4B,CRYM,TMEM159,ZP2,ENSBTAG00000006717 |
| 25 | 19,275,000 | 19,425,000 | 258 | 454 | -1.19292598 | ANKS4B,CRYM,ENSBTAG00000006717 |
| 25 | 19,350,000 | 19,500,000 | 259 | 566 | -0.743155446 | ENSBTAG00000006717 |
| 25 | 19,425,000 | 19,575,000 | 260 | 933 | 0.590224917 | ENSBTAG00000006717 |
| 25 | 19,500,000 | 19,650,000 | 261 | 1913 | 0.206590993 | ENSBTAG00000006717,ENSBTAG00000035915 |
| 25 | 19,575,000 | 19,725,000 | 262 | 1818 | 0.072168202 | ENSBTAG00000006717,ENSBTAG00000035915 |
| 25 | 19,650,000 | 19,800,000 | 263 | 1293 | 0.619907663 | ENSBTAG00000035915 |
| 25 | 19,725,000 | 19,875,000 | 264 | 1033 | 0.895937187 | UQCRC2,ENSBTAG00000035915 |
| 25 | 19,800,000 | 19,950,000 | 265 | 737 | 1.185177412 | PDZD9,UQCRC2,ENSBTAG00000035915 |
| 25 | 19,875,000 | 20,025,000 | 266 | 967 | 0.817871213 | C16orf52,PDZD9,UQCRC2,VWA3A |
| 25 | 19,950,000 | 20,100,000 | 267 | 686 | -0.529612612 | C16orf52,SDR42E2,VWA3A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 20,025,000 | 20,175,000 | 268 | 483 | -0.345356154 | EEF2K,SDR42E2,VWA3A |
| 25 | 20,100,000 | 20,250,000 | 269 | 532 | 0.354540479 | CDR2,EEF2K,POLR3E,ENSBTAG00000032373 |
| 25 | 20,175,000 | 20,325,000 | 270 | 395 | -1.206312139 | CDR2,METTL9,POLR3E,ENSBTAG00000032373 |
| 25 | 20,250,000 | 20,400,000 | 271 | 415 | -2.232061113 | IGSF6,METTL9,OTOA,ENSBTAG00000032373 |
| 25 | 20,325,000 | 20,475,000 | 272 | 567 | -3.056605795 | IGSF6,METTL9,OTOA |
| 25 | 20,400,000 | 20,550,000 | 273 | 957 | -3.347715439 | OTOA |
| 25 | 20,475,000 | 20,625,000 | 274 | 1192 | -1.562735498 | ENSBTAG00000018195 |
| 25 | 20,550,000 | 20,700,000 | 275 | 715 | 0.491058291 | HS3ST2,ENSBTAG00000018195 |
| 25 | 20,625,000 | 20,775,000 | 276 | 283 | 0.733561886 | HS3ST2 |
| 25 | 20,700,000 | 20,850,000 | 277 | 515 | 1.192161222 | HS3ST2 |
| 25 | 20,775,000 | 20,925,000 | 278 | 1399 | 1.205604955 | HS3ST2 |
| 25 | 20,850,000 | 21,000,000 | 279 | 1754 | 0.82583078 | USP31 |
| 25 | 20,925,000 | 21,075,000 | 280 | 1133 | 0.572996097 | USP31 |
| 25 | 21,000,000 | 21,150,000 | 281 | 665 | 0.550925948 | SCNN1G,USP31 |
| 25 | 21,075,000 | 21,225,000 | 282 | 549 | -0.351616666 | SCNN1G |
| 25 | 21,150,000 | 21,300,000 | 283 | 482 | -0.441322674 | COG7,SCNN1B |
| 25 | 21,225,000 | 21,375,000 | 284 | 701 | 0.387381817 | COG7,SCNN1B |
| 25 | 21,300,000 | 21,450,000 | 285 | 1114 | 0.746715665 | COG7,EARS2,GGA2 |
| 25 | 21,375,000 | 21,525,000 | 286 | 822 | 0.779214654 | COG7,EARS2,GGA2,NDUFAB1,PALB2,UBFD1 |
| 25 | 21,450,000 | 21,600,000 | 287 | 574 | 0.20253817 | EARS2,ERN2,MGC3248,NDUFAB1,PALB2,PLK1,UBFD1 |
| 25 | 21,525,000 | 21,675,000 | 288 | 965 | 0.513865201 | CHP2,ERN2,MGC3248,PALB2,PLK1 |
| 25 | 21,600,000 | 21,750,000 | 289 | 1150 | 0.273554292 | CHP2,ERN2 |
| 25 | 21,675,000 | 21,825,000 | 290 | 1041 | 0.1267343 | PRKCB |
| 25 | 21,750,000 | 21,900,000 | 291 | 859 | 0.705524535 | PRKCB |
| 25 | 21,825,000 | 21,975,000 | 292 | 1081 | 0.359481012 | PRKCB |
| 25 | 21,900,000 | 22,050,000 | 293 | 1471 | 0.017221059 | PRKCB |
| 25 | 21,975,000 | 22,125,000 | 294 | 1423 | 0.078541344 | PRKCB |
| 25 | 22,050,000 | 22,200,000 | 295 | 1307 | 0.281902171 | CACNG3,PRKCB |
| 25 | 22,125,000 | 22,275,000 | 296 | 1539 | 0.775229011 | CACNG3,PRKCB |
| 25 | 22,200,000 | 22,350,000 | 297 | 1583 | 0.856905599 | CACNG3 |
| 25 | 22,275,000 | 22,425,000 | 298 | 1278 | 0.369847035 | CACNG3 |
| 25 | 22,350,000 | 22,500,000 | 299 | 985 | 0.442460414 | RBBP6 |
| 25 | 22,425,000 | 22,575,000 | 300 | 866 | 0.921001666 | RBBP6 |
| 25 | 22,500,000 | 22,650,000 | 301 | 1111 | 1.080477554 | |
| 25 | 22,575,000 | 22,725,000 | 302 | 1143 | 1.08924186 | TNRC6A |
| 25 | 22,650,000 | 22,800,000 | 303 | 1028 | 0.752931693 | SLC5A11,TNRC6A |
| 25 | 22,725,000 | 22,875,000 | 304 | 1370 | -0.008599151 | ARHGAP17,SLC5A11,TNRC6A |
| 25 | 22,800,000 | 22,950,000 | 305 | 1216 | -1.408198825 | ARHGAP17,SLC5A11,ENSBTAG00000046132 |
| 25 | 22,875,000 | 23,025,000 | 306 | 641 | -3.907627248 | ARHGAP17,LCMT1,ENSBTAG00000046132 |
| 25 | 22,950,000 | 23,100,000 | 307 | 1034 | -1.88840561 | AQP8,LCMT1,ZKSCAN2,ENSBTAG00000046132 |
| 25 | 23,025,000 | 23,175,000 | 308 | 1080 | -0.842756259 | AQP8,LCMT1,ZKSCAN2 |
| 25 | 23,100,000 | 23,250,000 | 309 | 809 | 0.136597841 | ZKSCAN2 |
| 25 | 23,175,000 | 23,325,000 | 310 | 1057 | -0.142790455 | |
| 25 | 23,250,000 | 23,400,000 | 311 | 815 | -0.432331137 | |
| 25 | 23,325,000 | 23,475,000 | 312 | 697 | 0.451832935 | |
| 25 | 23,400,000 | 23,550,000 | 313 | 847 | 0.599331683 | |
| 25 | 23,475,000 | 23,625,000 | 314 | 1045 | 0.159674544 | |
| 25 | 23,550,000 | 23,700,000 | 315 | 1534 | 0.161008121 | |
| 25 | 23,625,000 | 23,775,000 | 316 | 1634 | -0.271183478 | |
| 25 | 23,700,000 | 23,850,000 | 317 | 1519 | -0.434747014 | |
| 25 | 23,775,000 | 23,925,000 | 318 | 1353 | -0.035528358 | |
| 25 | 23,850,000 | 24,000,000 | 319 | 1107 | -0.446020729 | |
| 25 | 23,925,000 | 24,075,000 | 320 | 1029 | -1.488796069 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 24,000,000 | 24,150,000 | 321 | 953 | -2.005543885 | |
| 25 | 24,075,000 | 24,225,000 | 322 | 968 | -1.197953508 | |
| 25 | 24,150,000 | 24,300,000 | 323 | 1095 | 0.133101029 | |
| 25 | 24,225,000 | 24,375,000 | 324 | 883 | 0.407398685 | |
| 25 | 24,300,000 | 24,450,000 | 325 | 888 | 0.158705894 | |
| 25 | 24,375,000 | 24,525,000 | 326 | 1105 | 0.386377621 | |
| 25 | 24,450,000 | 24,600,000 | 327 | 1097 | 1.095638135 | |
| 25 | 24,525,000 | 24,675,000 | 328 | 919 | 0.44134095 | |
| 25 | 24,600,000 | 24,750,000 | 329 | 1237 | 0.096112706 | |
| 25 | 24,675,000 | 24,825,000 | 330 | 1573 | 0.294737174 | |
| 25 | 24,750,000 | 24,900,000 | 331 | 1260 | 0.074794008 | |
| 25 | 24,825,000 | 24,975,000 | 332 | 1816 | -0.390776932 | C25H16orf82 |
| 25 | 24,900,000 | 25,050,000 | 333 | 1857 | -0.310714433 | C25H16orf82 |
| 25 | 24,975,000 | 25,125,000 | 334 | 1112 | 0.42974129 | KDM8,NSMCE1 |
| 25 | 25,050,000 | 25,200,000 | 335 | 979 | -0.114692372 | IL4R,KDM8,NSMCE1 |
| 25 | 25,125,000 | 25,275,000 | 336 | 1211 | -0.009972642 | IL21R,IL4R |
| 25 | 25,200,000 | 25,350,000 | 337 | 1413 | 0.536897935 | GTF3C1,IL21R |
| 25 | 25,275,000 | 25,425,000 | 338 | 1543 | 0.45830728 | GTF3C1,KIAA0556 |
| 25 | 25,350,000 | 25,500,000 | 339 | 2093 | 0.007262393 | GTF3C1,KIAA0556 |
| 25 | 25,425,000 | 25,575,000 | 340 | 2539 | -0.695976984 | KIAA0556 |
| 25 | 25,500,000 | 25,650,000 | 341 | 2293 | -0.308750529 | GSG1L,KIAA0556 |
| 25 | 25,575,000 | 25,725,000 | 342 | 2113 | 0.781626226 | GSG1L,KIAA0556 |
| 25 | 25,650,000 | 25,800,000 | 343 | 1947 | 0.960862219 | GSG1L |
| 25 | 25,725,000 | 25,875,000 | 344 | 1610 | 0.923687802 | GSG1L |
| 25 | 25,800,000 | 25,950,000 | 345 | 1533 | 0.926470606 | GSG1L,XPO6 |
| 25 | 25,875,000 | 26,025,000 | 346 | 1675 | 0.877293773 | XPO6 |
| 25 | 25,950,000 | 26,100,000 | 347 | 1408 | 1.00109405 | SBK1,XPO6 |
| 25 | 26,025,000 | 26,175,000 | 348 | 1161 | 1.189595097 | CD19,LAT,NFATC2IP,SBK1,SPNS1 |
| 25 | 26,100,000 | 26,250,000 | 349 | 1129 | 0.911710356 | ATP2A1,ATXN2L,CD19,LAT,NFATC2IP,RABEP2,SH2B1,SPNS1,TUFM |
| 25 | 26,175,000 | 26,325,000 | 350 | 1338 | 0.578893602 | APOBR,ATP2A1,ATXN2L,EIF3C,IL27,RABEP2,SH2B1,TU FM,ENSBTAG00000018000 |
| 25 | 26,250,000 | 26,400,000 | 351 | 1701 | 0.797471393 | APOBR,CORO1A,EIF3C,IL27,NUPR1,SLX1A,SULT1A1,E NSBTAG00000008632,ENSBTAG00000016883,ENSBT AG00000018000,ENSBTAG00000048253 |
| 25 | 26,325,000 | 26,475,000 | 352 | 1532 | 1.113338289 | ALDOA,CORO1A,GDPD3,MAPK3,NUPR1,PPP4C,SLX1A ,SULT1A1,TBX6,YPEL3,ENSBTAG00000008632,ENSBT A00000016883,ENSBTAG00000048253 |
| 25 | 26,400,000 | 26,550,000 | 353 | 1199 | 1.20813686 | ALDOA,DOC2A,FAM57B,GDPD3,HIRIP3,INO80E,MAPK 3,PPP4C,TAOK2,TBX6,TMEM219,YPEL3 |
| 25 | 26,475,000 | 26,625,000 | 354 | 1023 | 0.846604489 | ALDOA,ASPHD1,DOC2A,FAM57B,HIRIP3,INO80E,KCT D13,SEZ6L2,TAOK2,TMEM219 |
| 25 | 26,550,000 | 26,700,000 | 355 | 1274 | 0.379152904 | ASPHD1,CDIPT,KCTD13,KIF22,MVP,PAGR1,PRRT2,SEZ 6L2,TMEM219 |
| 25 | 26,625,000 | 26,775,000 | 356 | 1556 | 0.73917967 | C16orf54,CDIPT,KIF22,MVP,PAGR1,PRRT2,QPRT,SEZ6L 2,SPN,ZG16 |
| 25 | 26,700,000 | 26,850,000 | 357 | 1263 | 1.02994168 | C16orf54,CD2BP2,KIF22,MYLPF,QPRT,SEPT1,SPN,TBC1 D10B,ZG16,ZNF48,ZNF771,ENSBTAG00000046855 |
| 25 | 26,775,000 | 26,925,000 | 358 | 1021 | 0.593037626 | CD2BP2,DCTPP1,ITGAL,MYLPF,SEPHS2,SEPT1,TBC1D1 0B,ZNF48,ZNF771,ENSBTAG00000046855 |
| 25 | 26,850,000 | 27,000,000 | 359 | 1070 | 0.696011245 | DCTPP1,ITGAL,SEPHS2,ZNF688,ENSBTAG0000004397 4 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 26,925,000 | 27,075,000 | 360 | 775 | 0.996148383 | FBRS,ITGAL,PRR14,ZNF688,ZNF689,ENSBTAG00000043974 |
| 25 | 27,000,000 | 27,150,000 | 361 | 526 | 0.797670582 | C16orf93,FBRS,PHKG2,PRR14,RNF40,SRCAP,ZNF689 |
| 25 | 27,075,000 | 27,225,000 | 362 | 684 | 0.15046639 | BCL7C,C16orf93,CTF1,PHKG2,RNF40,SRCAP,ZNF629 |
| 25 | 27,150,000 | 27,300,000 | 363 | 941 | 0.130882974 | BCL7C,CTF1,RNF40,ZNF629,ENSBTAG00000035373 |
| 25 | 27,225,000 | 27,375,000 | 364 | 859 | 0.193641244 | CTF1,FBXL19,OAI3,SETD1A,ENSBTAG00000035373 |
| 25 | 27,300,000 | 27,450,000 | 365 | 650 | 0.483910971 | FBXL19,HSD3B7,OAI3,SETD1A,STX1B,STX4,ZNF646,ZNF668 |
| 25 | 27,375,000 | 27,525,000 | 366 | 585 | 0.619273529 | BCKDK,FUS,HSD3B7,KAT8,PRSS36,PRSS53,PRSS8,STX1B,STX4,VKORC1,ZNF646,ZNF668 |
| 25 | 27,450,000 | 27,600,000 | 367 | 843 | -0.723302466 | BCKDK,FUS,KAT8,PRSS36,PRSS53,PRSS8,TRIM72,VKORC1,ENSBTAG00000020535 |
| 25 | 27,525,000 | 27,675,000 | 368 | 1114 | -0.636568443 | FUS,ITGAM,TRIM72,ENSBTAG00000020535 |
| 25 | 27,600,000 | 27,750,000 | 369 | 1160 | -0.184982708 | COX6A2,ITGAD,ITGAM |
| 25 | 27,675,000 | 27,825,000 | 370 | 876 | -0.073560049 | AHSP,ARMC5,C16orf58,COX6A2,ITGAD,SLC5A2,TGFB1I1,ENSBTAG00000040319 |
| 25 | 27,750,000 | 27,900,000 | 371 | 862 | 0.356571448 | AHSP,ARMC5,C16orf58,SEPT14,SLC5A2,TGFB1I1,ZNF713,ENSBTAG00000037462,ENSBTAG00000040319 |
| 25 | 27,825,000 | 27,975,000 | 372 | 1067 | -0.50527796 | GBAS,MRPS17,PSPH,SEPT14,ZNF713,ENSBTAG00000037462 |
| 25 | 27,900,000 | 28,050,000 | 373 | 1091 | -1.36717442 | CCT6A,CHCHD9,GBAS,MRPS17,NUPR1L,PHKG1,PSPH,SUMF2,ENSBTAG00000031582 |
| 25 | 27,975,000 | 28,125,000 | 374 | 1039 | -0.812495148 | CCT6A,CHCHD9,NUPR1L,PHKG1,PSPH,SUMF2,ENSBTAG00000014448,ENSBTAG00000031582 |
| 25 | 28,050,000 | 28,200,000 | 375 | 712 | 0.349185222 | GUSB,ENSBTAG00000014448 |
| 25 | 28,125,000 | 28,275,000 | 376 | 704 | 0.515437589 | CRCP,GUSB,ENSBTAG00000014448,ENSBTAG00000015314 |
| 25 | 28,200,000 | 28,350,000 | 377 | 841 | 0.704268927 | CRCP,TPST1,ENSBTAG00000015314 |
| 25 | 28,275,000 | 28,425,000 | 378 | 589 | 0.103989158 | CRCP,TPST1 |
| 25 | 28,350,000 | 28,500,000 | 379 | 368 | -1.334218949 | KCTD7,TPST1 |
| 25 | 28,425,000 | 28,575,000 | 380 | 300 | -0.741722472 | KCTD7,RABGEF1,TMEM248,TPST1 |
| 25 | 28,500,000 | 28,650,000 | 381 | 652 | 0.651307661 | RABGEF1,SBDS,TMEM248,TYW1 |
| 25 | 28,575,000 | 28,725,000 | 382 | 791 | 0.380449776 | SBDS,TMEM248,TYW1 |
| 25 | 28,650,000 | 28,800,000 | 383 | 569 | -0.335794116 | TYW1 |
| 25 | 28,725,000 | 28,875,000 | 384 | 470 | -0.189702831 | TYW1 |
| 25 | 28,800,000 | 28,950,000 | 385 | 254 | -0.040449705 | CALN1 |
| 25 | 28,875,000 | 29,025,000 | 386 | 422 | -0.687435526 | CALN1 |
| 25 | 28,950,000 | 29,100,000 | 387 | 561 | -0.888214175 | CALN1 |
| 25 | 29,025,000 | 29,175,000 | 388 | 577 | 0.509628242 | CALN1 |
| 25 | 29,100,000 | 29,250,000 | 389 | 508 | 1.123325704 | CALN1 |
| 25 | 29,175,000 | 29,325,000 | 390 | 375 | 0.60899165 | CALN1 |
| 25 | 29,250,000 | 29,400,000 | 391 | 494 | 0.031856109 | CALN1,WBSCR17 |
| 25 | 29,325,000 | 29,475,000 | 392 | 1027 | -0.172305428 | CALN1,WBSCR17 |
| 25 | 29,400,000 | 29,550,000 | 393 | 1318 | 0.343384374 | WBSCR17 |
| 25 | 29,475,000 | 29,625,000 | 394 | 1284 | 0.868986549 | WBSCR17 |
| 25 | 29,550,000 | 29,700,000 | 395 | 1526 | 0.765859771 | WBSCR17 |
| 25 | 29,625,000 | 29,775,000 | 396 | 1707 | 0.316950682 | WBSCR17 |
| 25 | 29,700,000 | 29,850,000 | 397 | 1673 | 0.286859811 | WBSCR17 |
| 25 | 29,775,000 | 29,925,000 | 398 | 1586 | 0.774797751 | WBSCR17 |
| 25 | 29,850,000 | 30,000,000 | 399 | 1593 | 1.183611898 | |
| 25 | 29,925,000 | 30,075,000 | 400 | 1709 | 1.175719424 | AUTS2 |
| 25 | 30,000,000 | 30,150,000 | 401 | 1462 | 0.97554937 | AUTS2 |
| 25 | 30,075,000 | 30,225,000 | 402 | 940 | 0.767328868 | AUTS2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 30,150,000 | 30,300,000 | 403 | 579 | 0.069492312 | |
| 25 | 30,225,000 | 30,375,000 | 404 | 195 | -1.612066224 | |
| 25 | 30,300,000 | 30,450,000 | 405 | 349 | -2.175059091 | |
| 25 | 30,375,000 | 30,525,000 | 406 | 899 | -0.758706141 | |
| 25 | 30,450,000 | 30,600,000 | 407 | 1040 | 0.102821558 | |
| 25 | 30,525,000 | 30,675,000 | 408 | 861 | 0.039315486 | |
| 25 | 30,600,000 | 30,750,000 | 409 | 686 | -0.231026376 | |
| 25 | 30,675,000 | 30,825,000 | 410 | 710 | 0.094050564 | |
| 25 | 30,750,000 | 30,900,000 | 411 | 681 | 0.584857829 | |
| 25 | 30,825,000 | 30,975,000 | 412 | 475 | 0.271590345 | |
| 25 | 30,900,000 | 31,050,000 | 413 | 325 | 0.39386243 | |
| 25 | 30,975,000 | 31,125,000 | 414 | 307 | 0.684782866 | ENSBTAG00000047342 |
| 25 | 31,050,000 | 31,200,000 | 415 | 303 | 0.35741704 | ENSBTAG00000047342 |
| 25 | 31,125,000 | 31,275,000 | 416 | 439 | 0.677493285 | |
| 25 | 31,200,000 | 31,350,000 | 417 | 593 | 0.41042133 | |
| 25 | 31,275,000 | 31,425,000 | 418 | 687 | -1.036957505 | |
| 25 | 31,350,000 | 31,500,000 | 419 | 902 | -0.193088349 | |
| 25 | 31,425,000 | 31,575,000 | 420 | 918 | 0.97333491 | |
| 25 | 31,500,000 | 31,650,000 | 421 | 765 | 0.311886861 | |
| 25 | 31,575,000 | 31,725,000 | 422 | 841 | -0.192396688 | |
| 25 | 31,650,000 | 31,800,000 | 423 | 1273 | 0.696609543 | |
| 25 | 31,725,000 | 31,875,000 | 424 | 1616 | 0.770017198 | |
| 25 | 31,800,000 | 31,950,000 | 425 | 1938 | 0.6476822 | |
| 25 | 31,875,000 | 32,025,000 | 426 | 2236 | 0.596237632 | |
| 25 | 31,950,000 | 32,100,000 | 427 | 2229 | 0.283310096 | |
| 25 | 32,025,000 | 32,175,000 | 428 | 1821 | 0.197041944 | |
| 25 | 32,100,000 | 32,250,000 | 429 | 1399 | 0.647135695 | |
| 25 | 32,175,000 | 32,325,000 | 430 | 1364 | 0.573448579 | |
| 25 | 32,250,000 | 32,400,000 | 431 | 1401 | 0.3001821 | ENSBTAG00000047264 |
| 25 | 32,325,000 | 32,475,000 | 432 | 725 | 0.157704748 | ENSBTAG00000047264 |
| 25 | 32,400,000 | 32,550,000 | 433 | 842 | 0.565002323 | |
| 25 | 32,475,000 | 32,625,000 | 434 | 1796 | 0.352559585 | |
| 25 | 32,550,000 | 32,700,000 | 435 | 1449 | 0.313824677 | |
| 25 | 32,625,000 | 32,775,000 | 436 | 816 | -0.274039582 | |
| 25 | 32,700,000 | 32,850,000 | 437 | 1228 | -0.834166111 | |
| 25 | 32,775,000 | 32,925,000 | 438 | 1771 | 0.680335019 | |
| 25 | 32,850,000 | 33,000,000 | 439 | 1701 | 1.039237974 | |
| 25 | 32,925,000 | 33,075,000 | 440 | 1675 | 0.430287407 | |
| 25 | 33,000,000 | 33,150,000 | 441 | 1274 | 0.055050648 | |
| 25 | 33,075,000 | 33,225,000 | 442 | 1020 | -0.281791982 | WBSCR16,ENSBTAG00000014417,ENSBTAG00000026286 |
| 25 | 33,150,000 | 33,300,000 | 443 | 1132 | -0.515630454 | GTF2I,NCF1,WBSCR16,ENSBTAG00000014417,ENSBTAG00000026286 |
| 25 | 33,225,000 | 33,375,000 | 444 | 841 | -0.434349248 | GTF2I,NCF1,ENSBTAG00000026286 |
| 25 | 33,300,000 | 33,450,000 | 445 | 885 | 0.392556538 | GTF2I,GTF2IRD1 |
| 25 | 33,375,000 | 33,525,000 | 446 | 1414 | 0.262663667 | GTF2IRD1 |
| 25 | 33,450,000 | 33,600,000 | 447 | 1477 | 0.042860047 | CLIP2,GTF2IRD1 |
| 25 | 33,525,000 | 33,675,000 | 448 | 1261 | 0.292680546 | CLIP2,RFC2 |
| 25 | 33,600,000 | 33,750,000 | 449 | 1258 | 0.39776188 | CLIP2,LAT2,RFC2,WBSCR1 |
| 25 | 33,675,000 | 33,825,000 | 450 | 1155 | 0.519989248 | ELN,LAT2,LIMK1,RFC2,WBSCR1 |
| 25 | 33,750,000 | 33,900,000 | 451 | 1019 | 0.081492379 | ELN,LIMK1 |
| 25 | 33,825,000 | 33,975,000 | 452 | 796 | -0.280082389 | WBSCR28 |
| 25 | 33,900,000 | 34,050,000 | 453 | 816 | -0.324458833 | ABHD11,CLDN3,CLDN4,WBSCR27,WBSCR28 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 33,975,000 | 34,125,000 | 454 | 909 | -0.109281515 | ABHD11,CLDN3,CLDN4,DNAJC30,STX1A,VPS37D,WBSCR22,WBSCR27 |
| 25 | 34,050,000 | 34,200,000 | 455 | 805 | 0.576491632 | BAZ1B,BCL7B,DNAJC30,MLXIPL,STX1A,TBL2,VPS37D,WBSCR22 |
| 25 | 34,125,000 | 34,275,000 | 456 | 644 | 0.405536538 | BAZ1B,BCL7B,FZD9,MLXIPL,TBL2 |
| 25 | 34,200,000 | 34,350,000 | 457 | 652 | 0.028926174 | BAZ1B,FKBP6,FZD9,NSUN5,TRIM50,ENSBTAG00000017939 |
| 25 | 34,275,000 | 34,425,000 | 458 | 825 | 0.157072268 | FKBP6,HIP1,NSUN5,TRIM50,ENSBTAG00000017939 |
| 25 | 34,350,000 | 34,500,000 | 459 | 847 | -0.12145184 | HIP1,ENSBTAG00000017939 |
| 25 | 34,425,000 | 34,575,000 | 460 | 964 | -0.481757687 | HIP1 |
| 25 | 34,500,000 | 34,650,000 | 461 | 1183 | 0.095271162 | CCL24,HIP1,RHBDD2 |
| 25 | 34,575,000 | 34,725,000 | 462 | 1160 | 0.660606896 | CCL24,POR,RHBDD2 |
| 25 | 34,650,000 | 34,800,000 | 463 | 1011 | 0.137490708 | MDH2,POR,SRRM3,STYXL1,TMEM120A |
| 25 | 34,725,000 | 34,875,000 | 464 | 1034 | -0.743068443 | HSPB1,MDH2,POR,SRRM3,STYXL1,TMEM120A |
| 25 | 34,800,000 | 34,950,000 | 465 | 992 | -1.296475585 | HSPB1,SRRM3,SSC4D,YWHAG |
| 25 | 34,875,000 | 35,025,000 | 466 | 997 | -0.104574655 | DTX2,SSC4D,UPK3B,YWHAG,ZP3 |
| 25 | 34,950,000 | 35,100,000 | 467 | 980 | 0.656090708 | DKFZP434K1815,DTX2,POLR2J,UPK3B,ZP3,ENSBTAG0000005448,ENSBTAG00000020524 |
| 25 | 35,025,000 | 35,175,000 | 468 | 832 | 0.043388009 | ALKBH4,DKFZP434K1815,ORAI2,POLR2J,PRKRIP1,ENSBTAG0000005448,ENSBTAG00000020524 |
| 25 | 35,100,000 | 35,250,000 | 469 | 747 | -0.367283477 | ALKBH4,CUX1,DKFZP434K1815,ORAI2,PRKRIP1,SH2B2,ENSBTAG00000047266 |
| 25 | 35,175,000 | 35,325,000 | 470 | 691 | 0.223970537 | CUX1,SH2B2,ENSBTAG00000047266 |
| 25 | 35,250,000 | 35,400,000 | 471 | 688 | 0.365866216 | CUX1 |
| 25 | 35,325,000 | 35,475,000 | 472 | 543 | -0.199611966 | CUX1 |
| 25 | 35,400,000 | 35,550,000 | 473 | 353 | -0.121044502 | CUX1 |
| 25 | 35,475,000 | 35,625,000 | 474 | 309 | 0.54039339 | CUX1 |
| 25 | 35,550,000 | 35,700,000 | 475 | 705 | -1.697460646 | |
| 25 | 35,625,000 | 35,775,000 | 476 | 1018 | -0.750361614 | MYL10 |
| 25 | 35,700,000 | 35,850,000 | 477 | 1104 | 0.293477193 | COL26A1,MYL10 |
| 25 | 35,775,000 | 35,925,000 | 478 | 1167 | -0.256943248 | COL26A1 |
| 25 | 35,850,000 | 36,000,000 | 479 | 919 | -0.365994317 | COL26A1,IFT22,ENSBTAG00000047808 |
| 25 | 35,925,000 | 36,075,000 | 480 | 1003 | 0.525836081 | CLDN15,COL26A1,FIS1,IFT22,PLOD3,ZNHIT1,ENSBTAG00000047808 |
| 25 | 36,000,000 | 36,150,000 | 481 | 1163 | 0.652614329 | CLDN15,FIS1,MUC3A,PLOD3,ZNHIT1,ENSBTAG00000020157 |
| 25 | 36,075,000 | 36,225,000 | 482 | 911 | 0.338310765 | AP1S1,MUC3A,SERPINE1,VGF,ENSBTAG00000020157 |
| 25 | 36,150,000 | 36,300,000 | 483 | 772 | 0.524047415 | AP1S1,MUC12,SERPINE1,TRIM56,VGF,ENSBTAG00000047125 |
| 25 | 36,225,000 | 36,375,000 | 484 | 827 | 0.799177822 | ACHE,EPHB4,MUC12,SLC12A9,SRRT,TRIM56,TRIP6,UFSP1,ZAN,ENSBTAG00000047125 |
| 25 | 36,300,000 | 36,450,000 | 485 | 725 | 1.195024726 | ACHE,EPHB4,EPO,GIGYF1,GNB2,POP7,SLC12A9,SRRT,TRIP6,UFSP1,ZAN |
| 25 | 36,375,000 | 36,525,000 | 486 | 610 | 1.229442955 | ACTL6B,EPO,FBXO24,GIGYF1,GNB2,LRCH4,MOSPD3,PCOLCE,POP7,SAP25,TFR2,ZAN,ENSBTAG00000046753 |
| 25 | 36,450,000 | 36,600,000 | 487 | 552 | 0.289081127 | ACTL6B,AGFG2,FBXO24,GNB2,LRCH4,MOSPD3,PCOLCE,SAP25,TFR2,ENSBTAG00000046753 |
| 25 | 36,525,000 | 36,675,000 | 488 | 555 | 0.111721208 | AGFG2,BCDIN3,C7orf61,NYAP1,PILRA,PPP1R35,TSC22D4,ZCWPW1,ENSBTAG00000015272 |
| 25 | 36,600,000 | 36,750,000 | 489 | 1121 | 0.655138756 | BCDIN3,C7orf61,NYAP1,PILRA,PPP1R35,PVRIG,STAG3,TSC22D4,ZCWPW1,ENSBTAG00000015272 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 25 | 36,675,000 | 36,825,000 | 490 | 1203 | 0.686291144 | C7orf43,GAL3ST4,GPC2,LAMTOR4,PILRA,PVRIG,STAG3,ENSBTAG00000011470 |
| 25 | 36,750,000 | 36,900,000 | 491 | 974 | 0.783184136 | AP4M1,C7orf43,CNPY4,COPS6,GAL3ST4,GPC2,LAMTOR4,MBLAC1,MCM7,STAG3,TAF6,ENSBTAG00000011470,ENSBTAG00000012668 |
| 25 | 36,825,000 | 36,975,000 | 492 | 1209 | -1.117307724 | AP4M1,CNPY4,COPS6,MBLAC1,MCM7,TAF6,ZKSCAN1,ZNF3,ZSCAN21,ENSBTAG00000012668 |
| 25 | 36,900,000 | 37,050,000 | 493 | 1305 | -0.79363524 | AZGP1,CYP3A5,GJC3,ZKSCAN1,ZNF3,ZSCAN21 |
| 25 | 36,975,000 | 37,125,000 | 494 | 1605 | 0.173225204 | AZGP1,CYP3A5,GJC3,OR2AE1 |
| 25 | 37,050,000 | 37,200,000 | 495 | 1436 | 0.222626394 | CYP3A5,OR2AE1,ENSBTAG00000047379 |
| 25 | 37,125,000 | 37,275,000 | 496 | 747 | 0.457298246 | CYP3A5,ENSBTAG00000047379 |
| 25 | 37,200,000 | 37,350,000 | 497 | 332 | -0.868882199 | CYP3A5,ZSCAN25,ENSBTAG00000019435 |
| 25 | 37,275,000 | 37,425,000 | 498 | 294 | -0.872880827 | ZNF655,ZNF789,ZSCAN25,ENSBTAG00000019435,ENSBTAG00000039720 |
| 25 | 37,350,000 | 37,500,000 | 499 | 355 | 0.498103465 | ATP5J2,ZNF394,ZNF655,ZNF789,ENSBTAG00000039720,ENSBTAG00000040568 |
| 25 | 37,425,000 | 37,575,000 | 500 | 528 | 0.40461675 | ARPC1A,ARPC1B,ATP5J2,BUD31,CPSF4,PDAP1,ZNF394,ENSBTAG00000020440,ENSBTAG00000040568 |
| 25 | 37,500,000 | 37,650,000 | 501 | 808 | 0.18403412 | ARPC1A,ARPC1B,BUD31,CPSF4,PDAP1,ENSBTAG00000020440 |
| 25 | 37,575,000 | 37,725,000 | 502 | 1174 | 0.319482069 | ARPC1A,KPNA7 |
| 25 | 37,650,000 | 37,800,000 | 503 | 1199 | 0.026644594 | KPNA7,SMURF1 |
| 25 | 37,725,000 | 37,875,000 | 504 | 1092 | -0.157897049 | SMURF1,TRRAP |
| 25 | 37,800,000 | 37,950,000 | 505 | 1331 | 0.347872928 | SMURF1,TMEM130,TRRAP |
| 25 | 37,875,000 | 38,025,000 | 506 | 1434 | 0.4993133 | TMEM130,TRRAP |
| 25 | 37,950,000 | 38,100,000 | 507 | 1606 | 0.666575771 | NPTX2 |
| 25 | 38,025,000 | 38,175,000 | 508 | 1622 | 0.363489815 | NPTX2 |
| 25 | 38,100,000 | 38,250,000 | 509 | 1354 | 0.452506799 | BAIAP2L1 |
| 25 | 38,175,000 | 38,325,000 | 510 | 1334 | 1.139502309 | BAIAP2L1,BRI3 |
| 25 | 38,250,000 | 38,400,000 | 511 | 1007 | 1.139829121 | BAIAP2L1,BHLHA15,BRI3,LMTK2 |
| 25 | 38,325,000 | 38,475,000 | 512 | 944 | 0.985643497 | BHLHA15,LMTK2 |
| 25 | 38,400,000 | 38,550,000 | 513 | 1310 | 0.787926651 | CCZ1,ENSBTAG00000005908,ENSBTAG00000046943 |
| 25 | 38,475,000 | 38,625,000 | 514 | 1273 | 0.737794796 | AIMP2,ANKRD61,CCZ1,EIF2AK1,PMS2,ENSBTAG00000005908,ENSBTAG00000046943 |
| 25 | 38,550,000 | 38,700,000 | 515 | 1086 | 0.541163838 | AIMP2,ANKRD61,CYTH3,EIF2AK1,PMS2,USP42,ENSBTAG00000005908 |
| 25 | 38,625,000 | 38,775,000 | 516 | 1101 | -0.656677997 | CYTH3,USP42,ENSBTAG00000046517 |
| 25 | 38,700,000 | 38,850,000 | 517 | 1369 | -1.409670947 | DAGLB,RAC1,ENSBTAG00000046517 |
| 25 | 38,775,000 | 38,925,000 | 518 | 1461 | -0.597031604 | DAGLB,GRID2IP,KDELR2,RAC1 |
| 25 | 38,850,000 | 39,000,000 | 519 | 1344 | 0.611509187 | C25H7ORF26,DAGLB,GRID2IP,KDELR2,ZDHHC4 |
| 25 | 38,925,000 | 39,075,000 | 520 | 1135 | 0.237290333 | C25H7ORF26,GRID2IP,ZDHHC4,ZNF12,ZNF316,ENSBTAG00000038613,ENSBTAG00000040014 |
| 25 | 39,000,000 | 39,150,000 | 521 | 1313 | 0.424775892 | RBAK,ZNF12,ZNF316,ENSBTAG00000005600,ENSBTAG00000038613,ENSBTAG00000038627,ENSBTAG00000040014 |
| 25 | 39,075,000 | 39,225,000 | 522 | 1219 | 0.490399304 | RBAK,RNF216,ENSBTAG00000005600,ENSBTAG00000038627,ENSBTAG00000040014,ENSBTAG00000048231 |
| 25 | 39,150,000 | 39,300,000 | 523 | 834 | -0.63562189 | FSCN1,RNF216,ENSBTAG00000048231 |
| 25 | 39,225,000 | 39,375,000 | 524 | 872 | 0.085209656 | ACTB,FBXL18,FSCN1,RNF216,ENSBTAG00000047781 |
| 25 | 39,300,000 | 39,450,000 | 525 | 810 | 0.483124645 | ACTB,FBXL18,FSCN1,TNRC18,ENSBTAG00000047781 |
| 25 | 39,375,000 | 39,525,000 | 526 | 566 | 0.274566439 | FBXL18,SLC29A4,TNRC18 |
| 25 | 39,450,000 | 39,600,000 | 527 | 681 | 0.280020995 | SLC29A4,TNRC18,WIPI2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 25 | 39,525,000 | 39,675,000 | 528 | 1144 | 0.314753763 | MMD2,SLC29A4,WIPI2 |
| 25 | 39,600,000 | 39,750,000 | 529 | 1105 | 0.150298276 | KIAA0415,MMD2,RADIL |
| 25 | 39,675,000 | 39,825,000 | 530 | 818 | -0.153875455 | FOXK1,KIAA0415,RADIL |
| 25 | 39,750,000 | 39,900,000 | 531 | 866 | -0.66466346 | FOXK1 |
| 25 | 39,825,000 | 39,975,000 | 532 | 1020 | -0.100113294 | |
| 25 | 39,900,000 | 40,050,000 | 533 | 1192 | 0.158416531 | SDK1 |
| 25 | 39,975,000 | 40,125,000 | 534 | 1379 | 0.155931403 | SDK1 |
| 25 | 40,050,000 | 40,200,000 | 535 | 1356 | 0.125161889 | SDK1 |
| 25 | 40,125,000 | 40,275,000 | 536 | 1313 | -0.515995185 | SDK1 |
| 25 | 40,200,000 | 40,350,000 | 537 | 1471 | -0.797423095 | |
| 25 | 40,275,000 | 40,425,000 | 538 | 1967 | -0.291962957 | |
| 25 | 40,350,000 | 40,500,000 | 539 | 1933 | 0.11982034 | |
| 25 | 40,425,000 | 40,575,000 | 540 | 1341 | -0.133763556 | |
| 25 | 40,500,000 | 40,650,000 | 541 | 1237 | 0.382580457 | |
| 25 | 40,575,000 | 40,725,000 | 542 | 1282 | 1.146139175 | |
| 25 | 40,650,000 | 40,800,000 | 543 | 1224 | 1.200231128 | |
| 25 | 40,725,000 | 40,875,000 | 544 | 1488 | 0.995362765 | |
| 25 | 40,800,000 | 40,950,000 | 545 | 1738 | 0.713175301 | |
| 25 | 40,875,000 | 41,025,000 | 546 | 1406 | 0.403596163 | CARD11 |
| 25 | 40,950,000 | 41,100,000 | 547 | 891 | -0.287232411 | CARD11,GNA12 |
| 25 | 41,025,000 | 41,175,000 | 548 | 794 | -1.115583871 | CARD11,GNA12 |
| 25 | 41,100,000 | 41,250,000 | 549 | 811 | -0.982801726 | AMZ1,BRAT1,GNA12,IQCE |
| 25 | 41,175,000 | 41,325,000 | 550 | 625 | -0.948683409 | AMZ1,BRAT1,IQCE,LFNG,TTYH3 |
| 25 | 41,250,000 | 41,400,000 | 551 | 688 | -0.423104944 | CHST12,GRIFIN,IQCE,LFNG,TTYH3 |
| 25 | 41,325,000 | 41,475,000 | 552 | 734 | -0.252880436 | CHST12,EIF3B,GRIFIN,ENSBTAG00000038978 |
| 25 | 41,400,000 | 41,550,000 | 553 | 967 | 0.172188817 | EIF3B,FTSJ2,MAD1L1,NUDT1,SNX8,ENSBTAG00000038978 |
| 25 | 41,475,000 | 41,625,000 | 554 | 1337 | 0.588685127 | FTSJ2,MAD1L1,NUDT1,SNX8 |
| 25 | 41,550,000 | 41,700,000 | 555 | 1000 | -0.01516263 | MAD1L1 |
| 25 | 41,625,000 | 41,775,000 | 556 | 589 | -1.045090392 | MAD1L1 |
| 25 | 41,700,000 | 41,850,000 | 557 | 880 | -0.33295825 | ELFN1,MAD1L1 |
| 25 | 41,775,000 | 41,925,000 | 558 | 986 | -0.537127112 | ELFN1,MAD1L1 |
| 25 | 41,850,000 | 42,000,000 | 559 | 746 | -1.272272574 | INTS1,MAFK,PSMG3,TMEM184A |
| 25 | 41,925,000 | 42,075,000 | 560 | 695 | -1.530635268 | INTS1,MAFK,MICALL2,PSMG3,TMEM184A |
| 25 | 42,000,000 | 42,150,000 | 561 | 696 | -0.232242684 | INTS1,MICALL2 |
| 25 | 42,075,000 | 42,225,000 | 562 | 729 | 0.558051757 | UNCX,ZFAND2A |
| 25 | 42,150,000 | 42,300,000 | 563 | 536 | 0.359849467 | C25H7ORF50,GPER1,GPR146,UNCX,ZFAND2A |
| 25 | 42,225,000 | 42,375,000 | 564 | 315 | 0.624437932 | ADAP1,C25H7ORF50,COX19,CYP2W1,GPER1,GPR146,ZFAND2A |
| 25 | 42,300,000 | 42,450,000 | 565 | 316 | 0.944119617 | ADAP1,C25H7ORF50,COX19,CYP2W1,GET4,HEATR2,ENSBTAG00000046498 |
| 25 | 42,375,000 | 42,525,000 | 566 | 576 | 0.208049949 | GET4,HEATR2,PRKAR1B,ENSBTAG00000046498 |
| 25 | 42,450,000 | 42,600,000 | 567 | 561 | -0.103852861 | HEATR2,PDGFA,PRKAR1B |
| 25 | 42,525,000 | 42,675,000 | 568 | 409 | -1.483812406 | PDGFA,PRKAR1B |
| 25 | 42,600,000 | 42,750,000 | 569 | 623 | -1.337105623 | FAM20C |
| 25 | 42,675,000 | 42,825,000 | 570 | 564 | -1.897871128 | FAM20C,ENSBTAG00000006239 |
| 25 | 42,750,000 | 42,900,000 | 571 | 522 | -2.668300311 | ENSBTAG00000006239 |
| 25 | 42,825,000 | 42,904,170 | 572 | 333 | -2.177841166 | |
| 26 | 0 | 150,000 | 1 | 186 | 0.030113683 | ENSBTAG00000038930,ENSBTAG00000040222 |
| 26 | 75,000 | 225,000 | 2 | 165 | -0.080729371 | ENSBTAG00000040222 |
| 26 | 150,000 | 300,000 | 3 | 139 | 0.122396717 | |
| 26 | 225,000 | 375,000 | 4 | 123 | 1.044505951 | ENSBTAG00000008152 |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|--|
| 26 | 300,000 | 450,000 | 5 | 129 | 1.05046079 | ENSBTAG00000008152,ENSBTAG000000035282,ENSBTAG000000046109 |
| 26 | 375,000 | 525,000 | 6 | 105 | 1.136776685 | ENSBTAG000000035282,ENSBTAG000000046109 |
| 26 | 450,000 | 600,000 | 7 | 123 | 1.043902875 | |
| 26 | 525,000 | 675,000 | 8 | 155 | 0.851465516 | UBE2D1 |
| 26 | 600,000 | 750,000 | 9 | 193 | 0.830810125 | CISD1,UBE2D1 |
| 26 | 675,000 | 825,000 | 10 | 329 | 0.993548625 | CISD1,IPMK,UBE2D1 |
| 26 | 750,000 | 900,000 | 11 | 434 | 1.169802272 | CISD1,IPMK |
| 26 | 825,000 | 975,000 | 12 | 722 | 0.703602262 | |
| 26 | 900,000 | 1,050,000 | 13 | 1063 | 0.704840954 | |
| 26 | 975,000 | 1,125,000 | 14 | 1095 | 0.316507822 | |
| 26 | 1,050,000 | 1,200,000 | 15 | 1281 | 0.339992815 | |
| 26 | 1,125,000 | 1,275,000 | 16 | 1433 | 0.701856942 | |
| 26 | 1,200,000 | 1,350,000 | 17 | 1461 | 0.456238971 | |
| 26 | 1,275,000 | 1,425,000 | 18 | 1402 | 0.668657104 | |
| 26 | 1,350,000 | 1,500,000 | 19 | 929 | 0.715749717 | |
| 26 | 1,425,000 | 1,575,000 | 20 | 722 | -0.186717979 | |
| 26 | 1,500,000 | 1,650,000 | 21 | 1006 | 0.339135417 | |
| 26 | 1,575,000 | 1,725,000 | 22 | 1306 | 0.67924528 | |
| 26 | 1,650,000 | 1,800,000 | 23 | 1223 | 0.348245037 | |
| 26 | 1,725,000 | 1,875,000 | 24 | 1387 | -1.222918378 | |
| 26 | 1,800,000 | 1,950,000 | 25 | 1487 | -1.507131756 | |
| 26 | 1,875,000 | 2,025,000 | 26 | 1241 | -0.498254477 | |
| 26 | 1,950,000 | 2,100,000 | 27 | 1084 | -0.467425937 | |
| 26 | 2,025,000 | 2,175,000 | 28 | 1114 | -0.335301464 | |
| 26 | 2,100,000 | 2,250,000 | 29 | 1128 | 0.068323002 | |
| 26 | 2,175,000 | 2,325,000 | 30 | 1119 | 0.176736519 | |
| 26 | 2,250,000 | 2,400,000 | 31 | 1248 | 0.678372074 | |
| 26 | 2,325,000 | 2,475,000 | 32 | 1393 | 0.218952129 | |
| 26 | 2,400,000 | 2,550,000 | 33 | 1318 | 0.095949967 | |
| 26 | 2,475,000 | 2,625,000 | 34 | 829 | 0.423416054 | |
| 26 | 2,550,000 | 2,700,000 | 35 | 900 | 0.347132366 | |
| 26 | 2,625,000 | 2,775,000 | 36 | 1102 | 0.541619833 | |
| 26 | 2,700,000 | 2,850,000 | 37 | 1657 | 0.441133532 | |
| 26 | 2,775,000 | 2,925,000 | 38 | 1849 | -0.601030585 | ENSBTAG00000002655 |
| 26 | 2,850,000 | 3,000,000 | 39 | 1431 | -1.70684218 | ENSBTAG00000002655 |
| 26 | 2,925,000 | 3,075,000 | 40 | 1076 | -0.563837896 | |
| 26 | 3,000,000 | 3,150,000 | 41 | 541 | 0.418975214 | |
| 26 | 3,075,000 | 3,225,000 | 42 | 831 | 0.795312634 | |
| 26 | 3,150,000 | 3,300,000 | 43 | 1608 | 0.45199236 | |
| 26 | 3,225,000 | 3,375,000 | 44 | 1710 | 0.224502384 | |
| 26 | 3,300,000 | 3,450,000 | 45 | 1421 | 0.112096971 | |
| 26 | 3,375,000 | 3,525,000 | 46 | 1125 | 0.41347746 | |
| 26 | 3,450,000 | 3,600,000 | 47 | 1365 | 0.990924191 | |
| 26 | 3,525,000 | 3,675,000 | 48 | 1483 | 0.221908172 | |
| 26 | 3,600,000 | 3,750,000 | 49 | 1152 | -1.641732487 | |
| 26 | 3,675,000 | 3,825,000 | 50 | 1097 | -1.029429836 | |
| 26 | 3,750,000 | 3,900,000 | 51 | 1281 | 0.563597224 | |
| 26 | 3,825,000 | 3,975,000 | 52 | 1177 | 0.831786869 | |
| 26 | 3,900,000 | 4,050,000 | 53 | 1120 | -0.499715992 | |
| 26 | 3,975,000 | 4,125,000 | 54 | 1261 | -0.636949099 | |
| 26 | 4,050,000 | 4,200,000 | 55 | 1252 | -0.092810194 | |
| 26 | 4,125,000 | 4,275,000 | 56 | 1489 | -0.379713576 | |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|--------------|
| 26 | 4,200,000 | 4,350,000 | 57 | 1310 | 0.600577255 | |
| 26 | 4,275,000 | 4,425,000 | 58 | 1166 | 0.669602678 | |
| 26 | 4,350,000 | 4,500,000 | 59 | 1166 | 0.453329033 | |
| 26 | 4,425,000 | 4,575,000 | 60 | 1253 | -0.046427687 | |
| 26 | 4,500,000 | 4,650,000 | 61 | 1285 | -0.36492398 | |
| 26 | 4,575,000 | 4,725,000 | 62 | 1119 | -0.910736966 | |
| 26 | 4,650,000 | 4,800,000 | 63 | 1425 | -2.618617096 | |
| 26 | 4,725,000 | 4,875,000 | 64 | 1366 | -3.280910256 | |
| 26 | 4,800,000 | 4,950,000 | 65 | 1231 | -0.987239739 | |
| 26 | 4,875,000 | 5,025,000 | 66 | 1568 | 0.020416427 | PCDH15 |
| 26 | 4,950,000 | 5,100,000 | 67 | 1701 | -0.069971613 | PCDH15 |
| 26 | 5,025,000 | 5,175,000 | 68 | 1931 | 0.404713507 | PCDH15 |
| 26 | 5,100,000 | 5,250,000 | 69 | 2019 | 0.385619057 | PCDH15 |
| 26 | 5,175,000 | 5,325,000 | 70 | 1990 | -0.087349641 | PCDH15 |
| 26 | 5,250,000 | 5,400,000 | 71 | 1327 | -0.426507831 | PCDH15 |
| 26 | 5,325,000 | 5,475,000 | 72 | 940 | 0.555476772 | PCDH15 |
| 26 | 5,400,000 | 5,550,000 | 73 | 1394 | 0.272364281 | PCDH15 |
| 26 | 5,475,000 | 5,625,000 | 74 | 1486 | -0.704855699 | PCDH15 |
| 26 | 5,550,000 | 5,700,000 | 75 | 1819 | -0.438827571 | PCDH15 |
| 26 | 5,625,000 | 5,775,000 | 76 | 1821 | -0.091949684 | |
| 26 | 5,700,000 | 5,850,000 | 77 | 1283 | 0.177087418 | |
| 26 | 5,775,000 | 5,925,000 | 78 | 1170 | 0.343042136 | |
| 26 | 5,850,000 | 6,000,000 | 79 | 1246 | 0.693450654 | |
| 26 | 5,925,000 | 6,075,000 | 80 | 1379 | 0.313892473 | |
| 26 | 6,000,000 | 6,150,000 | 81 | 1487 | 0.442216489 | |
| 26 | 6,075,000 | 6,225,000 | 82 | 1379 | 0.613761062 | |
| 26 | 6,150,000 | 6,300,000 | 83 | 1085 | 0.314220853 | |
| 26 | 6,225,000 | 6,375,000 | 84 | 825 | 1.083831736 | MBL |
| 26 | 6,300,000 | 6,450,000 | 85 | 1177 | 1.30682154 | MBL |
| 26 | 6,375,000 | 6,525,000 | 86 | 1267 | 1.119528458 | |
| 26 | 6,450,000 | 6,600,000 | 87 | 823 | 0.87674364 | |
| 26 | 6,525,000 | 6,675,000 | 88 | 986 | -0.047246468 | |
| 26 | 6,600,000 | 6,750,000 | 89 | 1403 | 0.181637988 | |
| 26 | 6,675,000 | 6,825,000 | 90 | 1417 | 0.830614708 | |
| 26 | 6,750,000 | 6,900,000 | 91 | 1144 | 0.896609556 | DKK1 |
| 26 | 6,825,000 | 6,975,000 | 92 | 965 | 1.074922647 | DKK1,PRKG1 |
| 26 | 6,900,000 | 7,050,000 | 93 | 987 | 0.60183069 | PRKG1 |
| 26 | 6,975,000 | 7,125,000 | 94 | 779 | -0.067449042 | PRKG1 |
| 26 | 7,050,000 | 7,200,000 | 95 | 772 | 0.695007952 | PRKG1 |
| 26 | 7,125,000 | 7,275,000 | 96 | 1134 | -0.048813371 | PRKG1 |
| 26 | 7,200,000 | 7,350,000 | 97 | 934 | -1.059898317 | PRKG1 |
| 26 | 7,275,000 | 7,425,000 | 98 | 583 | -0.779688066 | PRKG1 |
| 26 | 7,350,000 | 7,500,000 | 99 | 771 | -0.507912675 | CSTF2T,PRKG1 |
| 26 | 7,425,000 | 7,575,000 | 100 | 1007 | -0.805744434 | CSTF2T,PRKG1 |
| 26 | 7,500,000 | 7,650,000 | 101 | 1175 | 0.297304341 | PRKG1 |
| 26 | 7,575,000 | 7,725,000 | 102 | 1569 | 0.856236094 | PRKG1 |
| 26 | 7,650,000 | 7,800,000 | 103 | 1572 | 0.288913509 | PRKG1 |
| 26 | 7,725,000 | 7,875,000 | 104 | 1416 | -0.010425001 | PRKG1 |
| 26 | 7,800,000 | 7,950,000 | 105 | 1691 | 0.481082674 | PRKG1 |
| 26 | 7,875,000 | 8,025,000 | 106 | 1706 | 0.367479578 | PRKG1 |
| 26 | 7,950,000 | 8,100,000 | 107 | 1665 | 0.454533633 | PRKG1 |
| 26 | 8,025,000 | 8,175,000 | 108 | 1469 | 0.275648436 | PRKG1 |
| 26 | 8,100,000 | 8,250,000 | 109 | 966 | 0.266315065 | PRKG1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 26 | 8,175,000 | 8,325,000 | 110 | 649 | -0.070397056 | PRKG1 |
| 26 | 8,250,000 | 8,400,000 | 111 | 795 | -1.319877724 | PRKG1 |
| 26 | 8,325,000 | 8,475,000 | 112 | 1118 | -0.216992302 | PRKG1 |
| 26 | 8,400,000 | 8,550,000 | 113 | 1185 | 0.534669008 | A1CF |
| 26 | 8,475,000 | 8,625,000 | 114 | 919 | -0.029584611 | A1CF |
| 26 | 8,550,000 | 8,700,000 | 115 | 847 | -0.667242193 | A1CF,ENSBTAG00000003529 |
| 26 | 8,625,000 | 8,775,000 | 116 | 1073 | -0.368959254 | SGMS1,ENSBTAG00000003529 |
| 26 | 8,700,000 | 8,850,000 | 117 | 1028 | -0.808231072 | SGMS1 |
| 26 | 8,775,000 | 8,925,000 | 118 | 798 | -0.635574707 | SGMS1 |
| 26 | 8,850,000 | 9,000,000 | 119 | 748 | -0.073910646 | |
| 26 | 8,925,000 | 9,075,000 | 120 | 668 | -0.148897189 | |
| 26 | 9,000,000 | 9,150,000 | 121 | 543 | -0.367844717 | |
| 26 | 9,075,000 | 9,225,000 | 122 | 473 | -0.52086261 | MINPP1 |
| 26 | 9,150,000 | 9,300,000 | 123 | 541 | 0.352259649 | MINPP1 |
| 26 | 9,225,000 | 9,375,000 | 124 | 685 | -0.86669644 | MINPP1,PAPSS2 |
| 26 | 9,300,000 | 9,450,000 | 125 | 540 | -2.266042802 | ATAD1,PAPSS2 |
| 26 | 9,375,000 | 9,525,000 | 126 | 499 | -0.908384037 | ATAD1,PAPSS2,PTEN |
| 26 | 9,450,000 | 9,600,000 | 127 | 506 | -0.154423969 | PTEN |
| 26 | 9,525,000 | 9,675,000 | 128 | 779 | -0.098851088 | PTEN |
| 26 | 9,600,000 | 9,750,000 | 129 | 860 | -0.202177003 | |
| 26 | 9,675,000 | 9,825,000 | 130 | 552 | -1.044803014 | |
| 26 | 9,750,000 | 9,900,000 | 131 | 524 | -1.529505348 | |
| 26 | 9,825,000 | 9,975,000 | 132 | 537 | -2.148625871 | |
| 26 | 9,900,000 | 10,050,000 | 133 | 490 | -1.025644811 | |
| 26 | 9,975,000 | 10,125,000 | 134 | 675 | 0.176698794 | |
| 26 | 10,050,000 | 10,200,000 | 135 | 872 | 0.158506627 | |
| 26 | 10,125,000 | 10,275,000 | 136 | 1193 | 0.204806534 | LIPJ |
| 26 | 10,200,000 | 10,350,000 | 137 | 1401 | -0.496390842 | LIPJ |
| 26 | 10,275,000 | 10,425,000 | 138 | 1225 | -0.890056385 | |
| 26 | 10,350,000 | 10,500,000 | 139 | 1195 | -0.62895116 | LIPF,LIPK,LIPN |
| 26 | 10,425,000 | 10,575,000 | 140 | 1096 | -0.061469495 | ANKRD22,LIPF,LIPK,LIPM,LIPN |
| 26 | 10,500,000 | 10,650,000 | 141 | 788 | 0.746820417 | ANKRD22,LIPM,STAMBPL1 |
| 26 | 10,575,000 | 10,725,000 | 142 | 551 | 0.782788066 | ACTA2,FAS,STAMBPL1 |
| 26 | 10,650,000 | 10,800,000 | 143 | 688 | -0.412317429 | ACTA2,FAS,STAMBPL1 |
| 26 | 10,725,000 | 10,875,000 | 144 | 753 | -1.051315348 | FAS |
| 26 | 10,800,000 | 10,950,000 | 145 | 695 | 0.170112114 | |
| 26 | 10,875,000 | 11,025,000 | 146 | 1168 | 0.997939592 | CH25H,LIPA |
| 26 | 10,950,000 | 11,100,000 | 147 | 1403 | 0.517871405 | CH25H,IFIT2,IFIT3,LIPA |
| 26 | 11,025,000 | 11,175,000 | 148 | 956 | -0.025887396 | IFIT1,IFIT2,IFIT3,IFIT5,LIPA,SLC16A12 |
| 26 | 11,100,000 | 11,250,000 | 149 | 788 | 0.212233979 | IFIT1,IFIT5,SLC16A12 |
| 26 | 11,175,000 | 11,325,000 | 150 | 914 | -0.109363081 | PANK1 |
| 26 | 11,250,000 | 11,400,000 | 151 | 812 | 0.462203837 | PANK1,ENSBTAG00000005708 |
| 26 | 11,325,000 | 11,475,000 | 152 | 750 | 0.258472989 | PANK1,ENSBTAG00000005708 |
| 26 | 11,400,000 | 11,550,000 | 153 | 855 | -0.44767991 | ENSBTAG00000005708 |
| 26 | 11,475,000 | 11,625,000 | 154 | 843 | -0.127323559 | |
| 26 | 11,550,000 | 11,700,000 | 155 | 631 | -0.357070317 | |
| 26 | 11,625,000 | 11,775,000 | 156 | 1019 | 0.333820542 | |
| 26 | 11,700,000 | 11,850,000 | 157 | 1324 | 0.650794648 | |
| 26 | 11,775,000 | 11,925,000 | 158 | 1127 | 0.414674622 | |
| 26 | 11,850,000 | 12,000,000 | 159 | 1186 | -0.262354518 | |
| 26 | 11,925,000 | 12,075,000 | 160 | 1143 | -1.043693272 | |
| 26 | 12,000,000 | 12,150,000 | 161 | 917 | -0.431667133 | |
| 26 | 12,075,000 | 12,225,000 | 162 | 808 | -0.579433947 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 12,150,000 | 12,300,000 | 163 | 707 | -1.104139822 | ENSBTAG00000034597 |
| 26 | 12,225,000 | 12,375,000 | 164 | 765 | 0.391256502 | ENSBTAG00000034597 |
| 26 | 12,300,000 | 12,450,000 | 165 | 828 | 1.033132379 | HTR7 |
| 26 | 12,375,000 | 12,525,000 | 166 | 665 | 1.126127697 | HTR7 |
| 26 | 12,450,000 | 12,600,000 | 167 | 603 | 1.092878542 | ANKRD1,HTR7,RPP30 |
| 26 | 12,525,000 | 12,675,000 | 168 | 528 | 1.243607475 | ANKRD1,RPP30 |
| 26 | 12,600,000 | 12,750,000 | 169 | 491 | 0.935565865 | |
| 26 | 12,675,000 | 12,825,000 | 170 | 694 | 0.50477848 | |
| 26 | 12,750,000 | 12,900,000 | 171 | 652 | 0.826018277 | PCGF5 |
| 26 | 12,825,000 | 12,975,000 | 172 | 533 | 1.254949729 | PCGF5 |
| 26 | 12,900,000 | 13,050,000 | 173 | 548 | 1.08944565 | PCGF5 |
| 26 | 12,975,000 | 13,125,000 | 174 | 717 | 0.701877619 | HECTD2 |
| 26 | 13,050,000 | 13,200,000 | 175 | 931 | 0.600344618 | HECTD2 |
| 26 | 13,125,000 | 13,275,000 | 176 | 808 | -0.501196534 | HECTD2,PPP1R3C |
| 26 | 13,200,000 | 13,350,000 | 177 | 569 | -1.069874815 | PPP1R3C |
| 26 | 13,275,000 | 13,425,000 | 178 | 531 | -0.381379892 | TNKS2 |
| 26 | 13,350,000 | 13,500,000 | 179 | 823 | -0.27374513 | FGFBP3,TNKS2 |
| 26 | 13,425,000 | 13,575,000 | 180 | 756 | -0.632681831 | BTAF1,FGFBP3,TNKS2 |
| 26 | 13,500,000 | 13,650,000 | 181 | 705 | 0.181643141 | BTAF1,CPEB3 |
| 26 | 13,575,000 | 13,725,000 | 182 | 836 | 0.807191989 | BTAF1,CPEB3 |
| 26 | 13,650,000 | 13,800,000 | 183 | 778 | 0.537391187 | CPEB3 |
| 26 | 13,725,000 | 13,875,000 | 184 | 670 | 0.621068186 | CPEB3,MARCH5 |
| 26 | 13,800,000 | 13,950,000 | 185 | 926 | 1.015638951 | IDE,MARCH5 |
| 26 | 13,875,000 | 14,025,000 | 186 | 1213 | -0.693463717 | IDE |
| 26 | 13,950,000 | 14,100,000 | 187 | 932 | -0.951355077 | IDE,KIF11 |
| 26 | 14,025,000 | 14,175,000 | 188 | 780 | 0.331428609 | HHEX,KIF11 |
| 26 | 14,100,000 | 14,250,000 | 189 | 741 | -0.884574708 | HHEX |
| 26 | 14,175,000 | 14,325,000 | 190 | 498 | -1.615186719 | EXOC6 |
| 26 | 14,250,000 | 14,400,000 | 191 | 323 | -0.169482365 | EXOC6 |
| 26 | 14,325,000 | 14,475,000 | 192 | 286 | 0.09424749 | CYP26A1,CYP26C1,EXOC6 |
| 26 | 14,400,000 | 14,550,000 | 193 | 553 | 0.9988005 | CYP26A1,CYP26C1,EXOC6 |
| 26 | 14,475,000 | 14,625,000 | 194 | 811 | 0.866369501 | |
| 26 | 14,550,000 | 14,700,000 | 195 | 991 | 0.748680914 | MYOF |
| 26 | 14,625,000 | 14,775,000 | 196 | 1171 | 1.074515265 | MYOF |
| 26 | 14,700,000 | 14,850,000 | 197 | 1339 | 0.687137749 | MYOF |
| 26 | 14,775,000 | 14,925,000 | 198 | 1461 | 1.135375999 | CEP55,FFAR4,MYOF |
| 26 | 14,850,000 | 15,000,000 | 199 | 1312 | 1.22723257 | CEP55,FFAR4,PDE6C,RBP4 |
| 26 | 14,925,000 | 15,075,000 | 200 | 847 | 0.150577407 | C26H10ORF4,FFAR4,PDE6C,RBP4 |
| 26 | 15,000,000 | 15,150,000 | 201 | 735 | -0.514962741 | C26H10ORF4,PDE6C,ENSBTAG00000005106,ENSBTAG00000048118 |
| 26 | 15,075,000 | 15,225,000 | 202 | 1090 | 0.082921431 | ENSBTAG00000005106,ENSBTAG00000048118 |
| 26 | 15,150,000 | 15,300,000 | 203 | 1071 | 0.758464934 | TMEM20 |
| 26 | 15,225,000 | 15,375,000 | 204 | 863 | 0.538332328 | PLCE1,TMEM20 |
| 26 | 15,300,000 | 15,450,000 | 205 | 831 | 0.713919344 | PLCE1 |
| 26 | 15,375,000 | 15,525,000 | 206 | 685 | 0.563887481 | PLCE1 |
| 26 | 15,450,000 | 15,600,000 | 207 | 646 | 0.327734725 | PLCE1 |
| 26 | 15,525,000 | 15,675,000 | 208 | 825 | 0.719794865 | PLCE1 |
| 26 | 15,600,000 | 15,750,000 | 209 | 764 | 0.875570017 | NOC3L,PLCE1 |
| 26 | 15,675,000 | 15,825,000 | 210 | 444 | 0.873476089 | NOC3L,PLCE1,TBC1D12 |
| 26 | 15,750,000 | 15,900,000 | 211 | 244 | 0.646655894 | HELLS,TBC1D12 |
| 26 | 15,825,000 | 15,975,000 | 212 | 375 | 0.715341819 | CYP2C18,HELLS,TBC1D12 |
| 26 | 15,900,000 | 16,050,000 | 213 | 741 | 0.952715671 | CYP2C18,CYP2C87 |
| 26 | 15,975,000 | 16,125,000 | 214 | 759 | 1.047057578 | CYP2C87 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 26 | 16,050,000 | 16,200,000 | 215 | 647 | 0.735647234 | CYP2C87,ENSBTAG00000020375 |
| 26 | 16,125,000 | 16,275,000 | 216 | 715 | 0.638049032 | ENSBTAG00000020375,ENSBTAG00000023955 |
| 26 | 16,200,000 | 16,350,000 | 217 | 595 | -0.447886216 | CYP2C19,ENSBTAG00000023955 |
| 26 | 16,275,000 | 16,425,000 | 218 | 548 | -1.363809145 | CYP2C19,ENSBTAG00000023955,ENSBTAG00000024700 |
| 26 | 16,350,000 | 16,500,000 | 219 | 608 | -0.821987673 | CYP2C19,ENSBTAG00000024700,ENSBTAG00000047324 |
| 26 | 16,425,000 | 16,575,000 | 220 | 951 | 0.080562886 | ENSBTAG00000024700,ENSBTAG00000047324 |
| 26 | 16,500,000 | 16,650,000 | 221 | 1316 | 0.512032352 | PDLIM1,ENSBTAG00000047324 |
| 26 | 16,575,000 | 16,725,000 | 222 | 1123 | -0.93907668 | PDLIM1,SORBS1 |
| 26 | 16,650,000 | 16,800,000 | 223 | 629 | -1.562811619 | SORBS1 |
| 26 | 16,725,000 | 16,875,000 | 224 | 811 | 0.283150674 | SORBS1 |
| 26 | 16,800,000 | 16,950,000 | 225 | 1118 | -0.253363336 | SORBS1 |
| 26 | 16,875,000 | 17,025,000 | 226 | 1232 | -0.648280875 | ALDH18A1,SORBS1,TCTN3 |
| 26 | 16,950,000 | 17,100,000 | 227 | 1125 | -1.346942185 | ALDH18A1,ENTPD1,TCTN3 |
| 26 | 17,025,000 | 17,175,000 | 228 | 909 | -0.714973127 | ENTPD1,ENSBTAG00000039132 |
| 26 | 17,100,000 | 17,250,000 | 229 | 1285 | 0.531873608 | ENTPD1,ENSBTAG00000039132 |
| 26 | 17,175,000 | 17,325,000 | 230 | 1112 | -0.105876547 | CCNJ,ENSBTAG00000039132 |
| 26 | 17,250,000 | 17,400,000 | 231 | 469 | -0.650168339 | BLNK,CCNJ,ZNF518A,ENSBTAG00000039132 |
| 26 | 17,325,000 | 17,475,000 | 232 | 642 | 0.104934668 | BLNK,ZNF518A |
| 26 | 17,400,000 | 17,550,000 | 233 | 1257 | 0.499084879 | BLNK,DNTT,OPALIN |
| 26 | 17,475,000 | 17,625,000 | 234 | 1150 | 0.676569743 | DNTT,OPALIN,TLL2 |
| 26 | 17,550,000 | 17,700,000 | 235 | 871 | -0.153475999 | OPALIN,TLL2 |
| 26 | 17,625,000 | 17,775,000 | 236 | 633 | -0.316456306 | TLL2,TM9SF3 |
| 26 | 17,700,000 | 17,850,000 | 237 | 434 | 0.1454025 | PIK3AP1,TM9SF3 |
| 26 | 17,775,000 | 17,925,000 | 238 | 474 | -0.325912136 | PIK3AP1 |
| 26 | 17,850,000 | 18,000,000 | 239 | 478 | -0.107430706 | |
| 26 | 17,925,000 | 18,075,000 | 240 | 524 | 0.696168002 | |
| 26 | 18,000,000 | 18,150,000 | 241 | 468 | 0.973726524 | C10orf12,LCOR,SLIT1 |
| 26 | 18,075,000 | 18,225,000 | 242 | 717 | 1.074565551 | C10orf12,LCOR,SLIT1 |
| 26 | 18,150,000 | 18,300,000 | 243 | 1005 | 0.162224361 | SLIT1 |
| 26 | 18,225,000 | 18,375,000 | 244 | 689 | -0.915558993 | ENSBTAG00000040427 |
| 26 | 18,300,000 | 18,450,000 | 245 | 417 | -0.369102687 | FRAT2,ENSBTAG0000007956,ENSBTAG00000040427 |
| 26 | 18,375,000 | 18,525,000 | 246 | 648 | 0.557678822 | EXOSC1,FRAT2,PGAM1,RRP12,ENSBTAG0000007956,ENSBTAG00000040427 |
| 26 | 18,450,000 | 18,600,000 | 247 | 806 | 1.090435147 | EXOSC1,MMS19,PGAM1,RRP12,UBTD1,ZDHHC16 |
| 26 | 18,525,000 | 18,675,000 | 248 | 1203 | 0.003450031 | ANKRD2,EXOSC1,HOGA1,MMS19,MORN4,UBTD1,ZDHHC16 |
| 26 | 18,600,000 | 18,750,000 | 249 | 1434 | -0.026157694 | ANKRD2,AVPI1,HOGA1,MARVELD1,MORN4,PI4K2A,UBTD1 |
| 26 | 18,675,000 | 18,825,000 | 250 | 1383 | 0.77192771 | AVPI1,MARVELD1,PI4K2A,SFRP5,ZFYVE27 |
| 26 | 18,750,000 | 18,900,000 | 251 | 1543 | 0.117466105 | CRTAC1,GOLGA7B,SFRP5,ZFYVE27 |
| 26 | 18,825,000 | 18,975,000 | 252 | 1555 | -0.127406612 | CRTAC1,GOLGA7B |
| 26 | 18,900,000 | 19,050,000 | 253 | 1572 | 0.534442971 | CRTAC1 |
| 26 | 18,975,000 | 19,125,000 | 254 | 1818 | 0.735806173 | CRTAC1 |
| 26 | 19,050,000 | 19,200,000 | 255 | 1792 | 0.710536998 | R3HCC1L |
| 26 | 19,125,000 | 19,275,000 | 256 | 1654 | 0.574930543 | LOXL4,R3HCC1L,ENSBTAG00000046848 |
| 26 | 19,200,000 | 19,350,000 | 257 | 1320 | -0.144172548 | LOXL4,PYROXD2,ENSBTAG00000046848 |
| 26 | 19,275,000 | 19,425,000 | 258 | 916 | -0.895776929 | HPS1,PYROXD2 |
| 26 | 19,350,000 | 19,500,000 | 259 | 846 | -0.365998876 | HPS1,PYROXD2 |
| 26 | 19,425,000 | 19,575,000 | 260 | 744 | 0.031080167 | |
| 26 | 19,500,000 | 19,650,000 | 261 | 742 | 0.635312879 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 19,575,000 | 19,725,000 | 262 | 600 | -0.294812676 | |
| 26 | 19,650,000 | 19,800,000 | 263 | 345 | -1.321798682 | |
| 26 | 19,725,000 | 19,875,000 | 264 | 278 | 0.201471881 | |
| 26 | 19,800,000 | 19,950,000 | 265 | 498 | 0.220499205 | |
| 26 | 19,875,000 | 20,025,000 | 266 | 852 | 0.800537943 | |
| 26 | 19,950,000 | 20,100,000 | 267 | 1071 | 1.275714734 | |
| 26 | 20,025,000 | 20,175,000 | 268 | 906 | 1.100468485 | |
| 26 | 20,100,000 | 20,250,000 | 269 | 865 | 1.102762938 | CNNM1 |
| 26 | 20,175,000 | 20,325,000 | 270 | 1067 | 1.084698874 | CNNM1,GOT1 |
| 26 | 20,250,000 | 20,400,000 | 271 | 1249 | 0.10660215 | CNNM1,GOT1 |
| 26 | 20,325,000 | 20,475,000 | 272 | 1341 | -0.203214412 | NKX2-3,SLC25A28 |
| 26 | 20,400,000 | 20,550,000 | 273 | 1233 | 0.235759618 | COX15,ENTPD7,NKX2-3,SLC25A28,ENSBTAG00000023629 |
| 26 | 20,475,000 | 20,625,000 | 274 | 1147 | 0.477091026 | ABCC2,COX15,CUTC,ENTPD7,SLC25A28,ENSBTAG000023629 |
| 26 | 20,550,000 | 20,700,000 | 275 | 1291 | 0.605281567 | ABCC2,COX15,CUTC,DNMBP |
| 26 | 20,625,000 | 20,775,000 | 276 | 1492 | 0.786985561 | ABCC2,DNMBP |
| 26 | 20,700,000 | 20,850,000 | 277 | 1310 | 0.69122862 | CPN1,DNMBP |
| 26 | 20,775,000 | 20,925,000 | 278 | 967 | 0.658816597 | CPN1,DNMBP,ERLIN1,ENSBTAG00000023939 |
| 26 | 20,850,000 | 21,000,000 | 279 | 959 | 0.701412098 | CHUK,CPN1,ERLIN1,ENSBTAG00000023939 |
| 26 | 20,925,000 | 21,075,000 | 280 | 1020 | 0.426261154 | BLOC1S2,CHUK,CWF19L1,ERLIN1,PKD2L1 |
| 26 | 21,000,000 | 21,150,000 | 281 | 786 | 0.068885648 | BLOC1S2,CHUK,CWF19L1,PKD2L1,SCD |
| 26 | 21,075,000 | 21,225,000 | 282 | 664 | -0.039387868 | PKD2L1,SCD |
| 26 | 21,150,000 | 21,300,000 | 283 | 656 | 0.482036298 | HIF1AN,NDUFB8,SEC31B,WNT8B |
| 26 | 21,225,000 | 21,375,000 | 284 | 747 | 0.030398624 | HIF1AN,NDUFB8,SEC31B,WNT8B |
| 26 | 21,300,000 | 21,450,000 | 285 | 600 | -0.343878052 | HIF1AN |
| 26 | 21,375,000 | 21,525,000 | 286 | 362 | 0.232111737 | PAX2 |
| 26 | 21,450,000 | 21,600,000 | 287 | 396 | 0.01338023 | PAX2 |
| 26 | 21,525,000 | 21,675,000 | 288 | 300 | 0.132249658 | C26H10ORF6,PAX2 |
| 26 | 21,600,000 | 21,750,000 | 289 | 230 | 0.093326596 | C26H10ORF2,C26H10ORF6,LZTS2,MRPL43,PDZD7,SEMA4G,SFXN3,ENSBTAG00000039834 |
| 26 | 21,675,000 | 21,825,000 | 290 | 323 | -0.504492369 | C26H10ORF2,KAZALD1,LZTS2,MRPL43,PDZD7,SEMA4G,SFXN3,TLX1,ENSBTAG00000039834 |
| 26 | 21,750,000 | 21,900,000 | 291 | 509 | -0.165757282 | KAZALD1,LBX1,TLX1 |
| 26 | 21,825,000 | 21,975,000 | 292 | 573 | 0.598278582 | LBX1,TLX1 |
| 26 | 21,900,000 | 22,050,000 | 293 | 556 | 0.988611605 | BTRC |
| 26 | 21,975,000 | 22,125,000 | 294 | 386 | 0.937899502 | BTRC |
| 26 | 22,050,000 | 22,200,000 | 295 | 428 | 0.730248201 | BTRC,POLL |
| 26 | 22,125,000 | 22,275,000 | 296 | 516 | 0.477729283 | BTRC,DPCD,FBXW4,POLL |
| 26 | 22,200,000 | 22,350,000 | 297 | 442 | 0.34729501 | DPCD,FBXW4,POLL |
| 26 | 22,275,000 | 22,425,000 | 298 | 537 | -0.232478215 | FBXW4,FGF8,KCNIP2,MGEA5,NPM3 |
| 26 | 22,350,000 | 22,500,000 | 299 | 624 | 0.300538844 | C10orf76,FGF8,KCNIP2,MGEA5,NPM3 |
| 26 | 22,425,000 | 22,575,000 | 300 | 592 | 0.373213966 | C10orf76,KCNIP2 |
| 26 | 22,500,000 | 22,650,000 | 301 | 455 | -0.306750195 | C10orf76,HPS6 |
| 26 | 22,575,000 | 22,725,000 | 302 | 483 | 0.080702696 | C10orf76,HPS6,LDB1,NOLC1,PPRC1 |
| 26 | 22,650,000 | 22,800,000 | 303 | 546 | 0.745846868 | ELOVL3,GBF1,LDB1,NOLC1,PITX3,PPRC1 |
| 26 | 22,725,000 | 22,875,000 | 304 | 441 | 0.470296368 | ELOVL3,GBF1,PITX3 |
| 26 | 22,800,000 | 22,950,000 | 305 | 485 | 0.082210564 | CUEDC2,FBXL15,GBF1,NFKB2,PSD,TMEM180 |
| 26 | 22,875,000 | 23,025,000 | 306 | 757 | 0.220430208 | ACTR1A,CUEDC2,FBXL15,GBF1,NFKB2,PSD,TMEM180 |
| 26 | 22,950,000 | 23,100,000 | 307 | 1757 | 0.820928451 | ACTR1A,TMEM180 |
| 26 | 23,025,000 | 23,175,000 | 308 | 2485 | 0.694919055 | |
| 26 | 23,100,000 | 23,250,000 | 309 | 2248 | 0.243646094 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 23,175,000 | 23,325,000 | 310 | 2449 | -0.058583917 | |
| 26 | 23,250,000 | 23,400,000 | 311 | 2884 | 0.11186463 | |
| 26 | 23,325,000 | 23,475,000 | 312 | 2516 | 0.422929355 | SUFU |
| 26 | 23,400,000 | 23,550,000 | 313 | 1260 | 0.555891299 | SUFU,TRIM8 |
| 26 | 23,475,000 | 23,625,000 | 314 | 630 | 0.307690734 | ARL3,SFXN2,SUFU,TRIM8 |
| 26 | 23,550,000 | 23,700,000 | 315 | 857 | 0.409342106 | ARL3,CYP17A1,SFXN2,WBP1L |
| 26 | 23,625,000 | 23,775,000 | 316 | 690 | 0.3910337 | ARL3,AS3MT,CYP17A1,WBP1L,ENSBTAG00000021246 |
| 26 | 23,700,000 | 23,850,000 | 317 | 584 | 0.452422879 | ARL3,AS3MT,CNNM2,CYP17A1,ENSBTAG00000021246 |
| 26 | 23,775,000 | 23,925,000 | 318 | 1198 | 0.548619052 | CNNM2 |
| 26 | 23,850,000 | 24,000,000 | 319 | 1238 | 0.419582288 | CNNM2,NT5C2 |
| 26 | 23,925,000 | 24,075,000 | 320 | 793 | 0.628193656 | CNNM2,NT5C2 |
| 26 | 24,000,000 | 24,150,000 | 321 | 647 | 0.694022551 | INA,NT5C2 |
| 26 | 24,075,000 | 24,225,000 | 322 | 593 | 0.178188399 | INA,NT5C2,TAF5,ENSBTAG00000009879,ENSBTAG000038993 |
| 26 | 24,150,000 | 24,300,000 | 323 | 874 | 0.284154133 | CALHM1,CALHM2,PDCD11,TAF5,USMG5,ENSBTAG000009879,ENSBTAG00000038993 |
| 26 | 24,225,000 | 24,375,000 | 324 | 1157 | 0.73381099 | CALHM1,CALHM2,CALHM3,NEURL1,PDCD11,TAF5,USMG5 |
| 26 | 24,300,000 | 24,450,000 | 325 | 1122 | 0.367412814 | CALHM3,NEURL1,SH3PXD2A |
| 26 | 24,375,000 | 24,525,000 | 326 | 959 | 0.232191569 | NEURL1,SH3PXD2A |
| 26 | 24,450,000 | 24,600,000 | 327 | 1051 | -0.051282953 | SH3PXD2A |
| 26 | 24,525,000 | 24,675,000 | 328 | 1136 | -0.548543218 | ASMTL |
| 26 | 24,600,000 | 24,750,000 | 329 | 1091 | -0.259582813 | ASMTL,OBFC1 |
| 26 | 24,675,000 | 24,825,000 | 330 | 1327 | 0.195891344 | ASMTL,OBFC1,SLK |
| 26 | 24,750,000 | 24,900,000 | 331 | 1342 | 0.269371748 | COL17A1,SLK |
| 26 | 24,825,000 | 24,975,000 | 332 | 1061 | 0.555583058 | CFAP43,COL17A1,SFR1,SLK |
| 26 | 24,900,000 | 25,050,000 | 333 | 1043 | 0.65034558 | CFAP43,SFR1 |
| 26 | 24,975,000 | 25,125,000 | 334 | 1208 | 0.911458721 | CFAP43,GSTO2,ENSBTAG00000003989,ENSBTAG0000038540 |
| 26 | 25,050,000 | 25,200,000 | 335 | 1421 | 0.731738026 | CFAP43,CFAP58,GSTO2,ITPRIP,ENSBTAG00000003989,ENSBTAG00000038540 |
| 26 | 25,125,000 | 25,275,000 | 336 | 1478 | -0.038279348 | CFAP58,ITPRIP |
| 26 | 25,200,000 | 25,350,000 | 337 | 1207 | -0.129325263 | CFAP58 |
| 26 | 25,275,000 | 25,425,000 | 338 | 1057 | 0.040393714 | CFAP58 |
| 26 | 25,350,000 | 25,500,000 | 339 | 1034 | -0.574079821 | |
| 26 | 25,425,000 | 25,575,000 | 340 | 1100 | -0.795818134 | |
| 26 | 25,500,000 | 25,650,000 | 341 | 1402 | 0.182770563 | |
| 26 | 25,575,000 | 25,725,000 | 342 | 1419 | 0.275464504 | ENSBTAG00000010522 |
| 26 | 25,650,000 | 25,800,000 | 343 | 1424 | 0.025799163 | ENSBTAG00000010522,ENSBTAG00000046727 |
| 26 | 25,725,000 | 25,875,000 | 344 | 1556 | -0.112952654 | ECHS1,FUOM,MTG1,PAOX,SPRN,ENSBTAG00000010522,ENSBTAG00000046727 |
| 26 | 25,800,000 | 25,950,000 | 345 | 1726 | -0.035776252 | CALY,ECHS1,FUOM,MTG1,PAOX,PRAP1,SPRN,TUBGCP2,ZNF511,ENSBTAG00000046499 |
| 26 | 25,875,000 | 26,025,000 | 346 | 1572 | 0.32555263 | ADAM8,CALY,FUOM,PRAP1,TUBGCP2,UTF1,ZNF511,ENSBTAG00000046499 |
| 26 | 25,950,000 | 26,100,000 | 347 | 1385 | 0.804463367 | ADAM8,TUBGCP2,UTF1 |
| 26 | 26,025,000 | 26,175,000 | 348 | 1322 | 0.890540234 | |
| 26 | 26,100,000 | 26,250,000 | 349 | 1004 | 0.057381611 | |
| 26 | 26,175,000 | 26,325,000 | 350 | 1142 | -0.475905179 | SORCS3 |
| 26 | 26,250,000 | 26,400,000 | 351 | 1374 | -0.158634764 | SORCS3 |
| 26 | 26,325,000 | 26,475,000 | 352 | 1344 | -0.25718496 | SORCS3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------|
| 26 | 26,400,000 | 26,550,000 | 353 | 1220 | -0.162051441 | |
| 26 | 26,475,000 | 26,625,000 | 354 | 1069 | 0.24861906 | |
| 26 | 26,550,000 | 26,700,000 | 355 | 1055 | -0.202778247 | |
| 26 | 26,625,000 | 26,775,000 | 356 | 1346 | 0.29268677 | |
| 26 | 26,700,000 | 26,850,000 | 357 | 1330 | 0.481049409 | |
| 26 | 26,775,000 | 26,925,000 | 358 | 752 | 0.408267441 | |
| 26 | 26,850,000 | 27,000,000 | 359 | 573 | -1.041496884 | |
| 26 | 26,925,000 | 27,075,000 | 360 | 805 | -1.25281897 | |
| 26 | 27,000,000 | 27,150,000 | 361 | 992 | -0.05138339 | |
| 26 | 27,075,000 | 27,225,000 | 362 | 1036 | -0.313445462 | |
| 26 | 27,150,000 | 27,300,000 | 363 | 912 | -0.709676698 | |
| 26 | 27,225,000 | 27,375,000 | 364 | 1119 | 0.516917083 | |
| 26 | 27,300,000 | 27,450,000 | 365 | 956 | 0.984167483 | |
| 26 | 27,375,000 | 27,525,000 | 366 | 725 | 0.924330101 | |
| 26 | 27,450,000 | 27,600,000 | 367 | 1138 | 0.106472821 | |
| 26 | 27,525,000 | 27,675,000 | 368 | 1215 | -0.381977368 | |
| 26 | 27,600,000 | 27,750,000 | 369 | 1339 | 0.651570102 | |
| 26 | 27,675,000 | 27,825,000 | 370 | 1520 | 1.092030308 | SORCS1 |
| 26 | 27,750,000 | 27,900,000 | 371 | 1408 | 1.034186477 | SORCS1 |
| 26 | 27,825,000 | 27,975,000 | 372 | 1192 | 0.609476046 | SORCS1 |
| 26 | 27,900,000 | 28,050,000 | 373 | 1060 | -0.07575499 | SORCS1 |
| 26 | 27,975,000 | 28,125,000 | 374 | 773 | -0.331481691 | SORCS1 |
| 26 | 28,050,000 | 28,200,000 | 375 | 843 | -1.357756521 | SORCS1 |
| 26 | 28,125,000 | 28,275,000 | 376 | 952 | -1.155058463 | SORCS1 |
| 26 | 28,200,000 | 28,350,000 | 377 | 917 | -0.393305634 | SORCS1 |
| 26 | 28,275,000 | 28,425,000 | 378 | 1001 | 0.208402818 | SORCS1 |
| 26 | 28,350,000 | 28,500,000 | 379 | 759 | 0.952572442 | SORCS1 |
| 26 | 28,425,000 | 28,575,000 | 380 | 750 | -0.5170831 | |
| 26 | 28,500,000 | 28,650,000 | 381 | 1037 | -0.787204616 | |
| 26 | 28,575,000 | 28,725,000 | 382 | 904 | -0.507127353 | |
| 26 | 28,650,000 | 28,800,000 | 383 | 894 | -0.761846918 | |
| 26 | 28,725,000 | 28,875,000 | 384 | 1018 | -0.814583265 | |
| 26 | 28,800,000 | 28,950,000 | 385 | 553 | -0.672512912 | |
| 26 | 28,875,000 | 29,025,000 | 386 | 219 | -0.605100996 | |
| 26 | 28,950,000 | 29,100,000 | 387 | 208 | -0.569085509 | |
| 26 | 29,025,000 | 29,175,000 | 388 | 609 | -0.050532283 | |
| 26 | 29,100,000 | 29,250,000 | 389 | 918 | -0.029554695 | |
| 26 | 29,175,000 | 29,325,000 | 390 | 1055 | 0.410419443 | |
| 26 | 29,250,000 | 29,400,000 | 391 | 985 | 0.957718868 | |
| 26 | 29,325,000 | 29,475,000 | 392 | 1067 | 0.759806614 | |
| 26 | 29,400,000 | 29,550,000 | 393 | 1265 | 0.729387937 | |
| 26 | 29,475,000 | 29,625,000 | 394 | 1074 | 0.656772624 | |
| 26 | 29,550,000 | 29,700,000 | 395 | 1171 | 0.476913926 | |
| 26 | 29,625,000 | 29,775,000 | 396 | 1153 | 0.399680974 | |
| 26 | 29,700,000 | 29,850,000 | 397 | 1086 | 0.36517424 | |
| 26 | 29,775,000 | 29,925,000 | 398 | 1095 | 0.040786735 | |
| 26 | 29,850,000 | 30,000,000 | 399 | 1137 | 0.143126586 | |
| 26 | 29,925,000 | 30,075,000 | 400 | 1404 | 0.713208609 | |
| 26 | 30,000,000 | 30,150,000 | 401 | 1567 | 0.984264958 | |
| 26 | 30,075,000 | 30,225,000 | 402 | 1368 | 0.90075008 | |
| 26 | 30,150,000 | 30,300,000 | 403 | 1328 | -0.018537766 | |
| 26 | 30,225,000 | 30,375,000 | 404 | 1223 | -0.345043154 | |
| 26 | 30,300,000 | 30,450,000 | 405 | 1091 | 0.647799796 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------------------------|
| 26 | 30,375,000 | 30,525,000 | 406 | 1137 | 0.947991944 | |
| 26 | 30,450,000 | 30,600,000 | 407 | 877 | 0.547834738 | |
| 26 | 30,525,000 | 30,675,000 | 408 | 856 | 0.204445425 | |
| 26 | 30,600,000 | 30,750,000 | 409 | 1199 | 0.339902222 | XPNPEP1 |
| 26 | 30,675,000 | 30,825,000 | 410 | 1175 | 0.678341726 | XPNPEP1 |
| 26 | 30,750,000 | 30,900,000 | 411 | 885 | 0.774919274 | ADD3 |
| 26 | 30,825,000 | 30,975,000 | 412 | 864 | 0.073296798 | ADD3 |
| 26 | 30,900,000 | 31,050,000 | 413 | 888 | -0.062115428 | ADD3,MXI1 |
| 26 | 30,975,000 | 31,125,000 | 414 | 964 | 0.425692805 | MXI1 |
| 26 | 31,050,000 | 31,200,000 | 415 | 1036 | 0.50989329 | MXI1,SMNDC1 |
| 26 | 31,125,000 | 31,275,000 | 416 | 985 | 0.2726572 | MXI1,SMNDC1 |
| 26 | 31,200,000 | 31,350,000 | 417 | 1020 | 0.475455206 | DUSP5 |
| 26 | 31,275,000 | 31,425,000 | 418 | 914 | 0.489407046 | DUSP5,SMC3 |
| 26 | 31,350,000 | 31,500,000 | 419 | 719 | 0.801449501 | RBM20,SMC3 |
| 26 | 31,425,000 | 31,575,000 | 420 | 909 | 0.555252267 | RBM20,SMC3 |
| 26 | 31,500,000 | 31,650,000 | 421 | 1133 | 0.175769941 | RBM20,ENSBTAG00000047270 |
| 26 | 31,575,000 | 31,725,000 | 422 | 810 | 0.323972152 | PDCD4,RBM20,ENSBTAG00000047270 |
| 26 | 31,650,000 | 31,800,000 | 423 | 348 | 0.46544894 | PDCD4,RBM20,SHOC2,ENSBTAG00000046362 |
| 26 | 31,725,000 | 31,875,000 | 424 | 262 | -0.243045707 | PDCD4,SHOC2,ENSBTAG00000046362 |
| 26 | 31,800,000 | 31,950,000 | 425 | 333 | -0.173516302 | SHOC2 |
| 26 | 31,875,000 | 32,025,000 | 426 | 439 | 0.243342662 | |
| 26 | 31,950,000 | 32,100,000 | 427 | 799 | 0.45499814 | |
| 26 | 32,025,000 | 32,175,000 | 428 | 1295 | 0.271299508 | |
| 26 | 32,100,000 | 32,250,000 | 429 | 1048 | 0.173214129 | |
| 26 | 32,175,000 | 32,325,000 | 430 | 880 | 0.807240068 | |
| 26 | 32,250,000 | 32,400,000 | 431 | 1172 | 0.902928553 | |
| 26 | 32,325,000 | 32,475,000 | 432 | 1218 | 0.279657039 | |
| 26 | 32,400,000 | 32,550,000 | 433 | 1096 | -0.018414891 | |
| 26 | 32,475,000 | 32,625,000 | 434 | 899 | 0.554511439 | |
| 26 | 32,550,000 | 32,700,000 | 435 | 664 | -0.330598343 | |
| 26 | 32,625,000 | 32,775,000 | 436 | 780 | -0.729178913 | |
| 26 | 32,700,000 | 32,850,000 | 437 | 1124 | -0.062166184 | |
| 26 | 32,775,000 | 32,925,000 | 438 | 1116 | -0.231393836 | |
| 26 | 32,850,000 | 33,000,000 | 439 | 685 | -0.807561981 | GPAM |
| 26 | 32,925,000 | 33,075,000 | 440 | 305 | -1.318554405 | GPAM |
| 26 | 33,000,000 | 33,150,000 | 441 | 433 | -0.642315914 | GPAM,TECTB |
| 26 | 33,075,000 | 33,225,000 | 442 | 725 | 0.614591785 | ACSL5,TECTB |
| 26 | 33,150,000 | 33,300,000 | 443 | 828 | 0.775886077 | ACSL5,VTI1A,ZDHHC6 |
| 26 | 33,225,000 | 33,375,000 | 444 | 700 | -0.527537381 | ACSL5,VTI1A,ZDHHC6 |
| 26 | 33,300,000 | 33,450,000 | 445 | 785 | -0.232775305 | VTI1A |
| 26 | 33,375,000 | 33,525,000 | 446 | 920 | -0.000483976 | |
| 26 | 33,450,000 | 33,600,000 | 447 | 901 | -0.333850125 | |
| 26 | 33,525,000 | 33,675,000 | 448 | 914 | 0.016403159 | |
| 26 | 33,600,000 | 33,750,000 | 449 | 1107 | 0.116776887 | |
| 26 | 33,675,000 | 33,825,000 | 450 | 1052 | -0.138312643 | TCFL2 |
| 26 | 33,750,000 | 33,900,000 | 451 | 800 | 0.258412702 | TCFL2 |
| 26 | 33,825,000 | 33,975,000 | 452 | 699 | 0.161012172 | TCFL2 |
| 26 | 33,900,000 | 34,050,000 | 453 | 664 | -0.498540107 | TCFL2 |
| 26 | 33,975,000 | 34,125,000 | 454 | 868 | -1.504809831 | |
| 26 | 34,050,000 | 34,200,000 | 455 | 792 | -1.658871484 | |
| 26 | 34,125,000 | 34,275,000 | 456 | 698 | 0.234691956 | |
| 26 | 34,200,000 | 34,350,000 | 457 | 1031 | 0.435241957 | HABP2,NRAP |
| 26 | 34,275,000 | 34,425,000 | 458 | 1211 | 0.675343383 | HABP2,NRAP |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 26 | 34,350,000 | 34,500,000 | 459 | 962 | 0.631009453 | CASP7,NRAP |
| 26 | 34,425,000 | 34,575,000 | 460 | 618 | 0.31746401 | CASP7,DCLRE1A,PLEKHS1 |
| 26 | 34,500,000 | 34,650,000 | 461 | 459 | 0.628895926 | DCLRE1A,NHLRC2,PLEKHS1 |
| 26 | 34,575,000 | 34,725,000 | 462 | 573 | 0.325445219 | DCLRE1A,NHLRC2 |
| 26 | 34,650,000 | 34,800,000 | 463 | 638 | -0.395357643 | |
| 26 | 34,725,000 | 34,875,000 | 464 | 483 | -0.524754643 | ADRB1 |
| 26 | 34,800,000 | 34,950,000 | 465 | 414 | 0.490026928 | ADRB1,CCDC186,TDRD1 |
| 26 | 34,875,000 | 35,025,000 | 466 | 635 | 0.588856827 | CCDC186,TDRD1,VWA2 |
| 26 | 34,950,000 | 35,100,000 | 467 | 851 | 0.193107055 | AFAP1L2,TDRD1,VWA2 |
| 26 | 35,025,000 | 35,175,000 | 468 | 765 | -0.555082966 | AFAP1L2,VWA2 |
| 26 | 35,100,000 | 35,250,000 | 469 | 940 | -0.881988643 | ABLIM1,AFAP1L2 |
| 26 | 35,175,000 | 35,325,000 | 470 | 1119 | -0.510486777 | ABLIM1 |
| 26 | 35,250,000 | 35,400,000 | 471 | 1040 | -0.858015949 | ABLIM1 |
| 26 | 35,325,000 | 35,475,000 | 472 | 1012 | -0.168764191 | ABLIM1,ENSBTAG00000013820 |
| 26 | 35,400,000 | 35,550,000 | 473 | 1074 | 0.553639982 | ENSBTAG00000013820 |
| 26 | 35,475,000 | 35,625,000 | 474 | 1137 | -0.149208648 | FAM160B1 |
| 26 | 35,550,000 | 35,700,000 | 475 | 1090 | -0.309145206 | FAM160B1,TRUB1 |
| 26 | 35,625,000 | 35,775,000 | 476 | 1127 | 0.29927744 | TRUB1 |
| 26 | 35,700,000 | 35,850,000 | 477 | 1060 | 0.663161107 | TRUB1 |
| 26 | 35,775,000 | 35,925,000 | 478 | 1043 | 1.049308641 | ATRNL1 |
| 26 | 35,850,000 | 36,000,000 | 479 | 1019 | 1.121325067 | ATRNL1 |
| 26 | 35,925,000 | 36,075,000 | 480 | 1255 | 0.974005088 | ATRNL1 |
| 26 | 36,000,000 | 36,150,000 | 481 | 1113 | 0.916215447 | ATRNL1 |
| 26 | 36,075,000 | 36,225,000 | 482 | 604 | 0.408917344 | ATRNL1 |
| 26 | 36,150,000 | 36,300,000 | 483 | 626 | -0.405164438 | ATRNL1 |
| 26 | 36,225,000 | 36,375,000 | 484 | 809 | -0.741207484 | |
| 26 | 36,300,000 | 36,450,000 | 485 | 824 | 0.087620989 | |
| 26 | 36,375,000 | 36,525,000 | 486 | 770 | 0.586513262 | |
| 26 | 36,450,000 | 36,600,000 | 487 | 918 | 0.347465821 | |
| 26 | 36,525,000 | 36,675,000 | 488 | 1194 | 0.642837716 | |
| 26 | 36,600,000 | 36,750,000 | 489 | 1417 | -0.161972121 | |
| 26 | 36,675,000 | 36,825,000 | 490 | 1351 | -1.069887323 | GFRA1 |
| 26 | 36,750,000 | 36,900,000 | 491 | 811 | -0.511322088 | GFRA1 |
| 26 | 36,825,000 | 36,975,000 | 492 | 653 | -0.797331052 | GFRA1 |
| 26 | 36,900,000 | 37,050,000 | 493 | 953 | -0.185122703 | GFRA1 |
| 26 | 36,975,000 | 37,125,000 | 494 | 757 | 0.628480867 | CCDC172,GFRA1 |
| 26 | 37,050,000 | 37,200,000 | 495 | 564 | 0.12738415 | CCDC172,PNLIPRP3 |
| 26 | 37,125,000 | 37,275,000 | 496 | 561 | 0.357554613 | CCDC172,PNLIPRP3 |
| 26 | 37,200,000 | 37,350,000 | 497 | 787 | 0.964260138 | PNLIP,PNLIPRP2,PNLIPRP3 |
| 26 | 37,275,000 | 37,425,000 | 498 | 932 | 0.329485834 | C10orf82,HSPA12A,PNLIP,PNLIPRP2 |
| 26 | 37,350,000 | 37,500,000 | 499 | 749 | -1.530077596 | C10orf82,HSPA12A,PNLIPRP2 |
| 26 | 37,425,000 | 37,575,000 | 500 | 535 | -1.288899571 | ENO4,HSPA12A |
| 26 | 37,500,000 | 37,650,000 | 501 | 458 | -0.396880545 | ENO4,KIAA1598 |
| 26 | 37,575,000 | 37,725,000 | 502 | 532 | -2.168076259 | ENO4,KIAA1598 |
| 26 | 37,650,000 | 37,800,000 | 503 | 506 | -1.807738802 | KIAA1598,VAX1 |
| 26 | 37,725,000 | 37,875,000 | 504 | 742 | -0.034978206 | KCNK18,VAX1 |
| 26 | 37,800,000 | 37,950,000 | 505 | 966 | 0.227453334 | KCNK18,PDZD8,SLC18A2,VAX1 |
| 26 | 37,875,000 | 38,025,000 | 506 | 645 | 0.214015314 | PDZD8,SLC18A2 |
| 26 | 37,950,000 | 38,100,000 | 507 | 611 | -0.593533948 | PDZD8 |
| 26 | 38,025,000 | 38,175,000 | 508 | 751 | -1.075561819 | EMX2 |
| 26 | 38,100,000 | 38,250,000 | 509 | 608 | -1.285852015 | EMX2 |
| 26 | 38,175,000 | 38,325,000 | 510 | 533 | -0.369675137 | |
| 26 | 38,250,000 | 38,400,000 | 511 | 500 | 0.66829302 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 26 | 38,325,000 | 38,475,000 | 512 | 551 | 1.21815328 | |
| 26 | 38,400,000 | 38,550,000 | 513 | 477 | 1.136358733 | |
| 26 | 38,475,000 | 38,625,000 | 514 | 254 | 0.678596911 | RAB11FIP2 |
| 26 | 38,550,000 | 38,700,000 | 515 | 318 | 0.363918236 | RAB11FIP2 |
| 26 | 38,625,000 | 38,775,000 | 516 | 474 | 0.932230232 | RAB11FIP2 |
| 26 | 38,700,000 | 38,850,000 | 517 | 586 | 0.742356905 | |
| 26 | 38,775,000 | 38,925,000 | 518 | 690 | 0.425030519 | FAM204A |
| 26 | 38,850,000 | 39,000,000 | 519 | 657 | 0.021232328 | FAM204A |
| 26 | 38,925,000 | 39,075,000 | 520 | 707 | -0.859776786 | FAM204A |
| 26 | 39,000,000 | 39,150,000 | 521 | 707 | -0.169299006 | |
| 26 | 39,075,000 | 39,225,000 | 522 | 603 | 0.400993346 | PRLHR |
| 26 | 39,150,000 | 39,300,000 | 523 | 458 | 0.02636535 | CACUL1,PRLHR |
| 26 | 39,225,000 | 39,375,000 | 524 | 403 | 1.062241858 | CACUL1 |
| 26 | 39,300,000 | 39,450,000 | 525 | 494 | 1.206799462 | CACUL1 |
| 26 | 39,375,000 | 39,525,000 | 526 | 613 | 0.306078334 | |
| 26 | 39,450,000 | 39,600,000 | 527 | 591 | -0.090712713 | EIF3A |
| 26 | 39,525,000 | 39,675,000 | 528 | 489 | -0.134543235 | EIF3A,FAM45A,PRDX3,SFXN4 |
| 26 | 39,600,000 | 39,750,000 | 529 | 477 | -0.340161535 | EIF3A,FAM45A,GRK5,PRDX3,SFXN4 |
| 26 | 39,675,000 | 39,825,000 | 530 | 571 | 0.010028012 | GRK5,PRDX3 |
| 26 | 39,750,000 | 39,900,000 | 531 | 673 | -0.278082314 | GRK5 |
| 26 | 39,825,000 | 39,975,000 | 532 | 1040 | 0.270118365 | GRK5 |
| 26 | 39,900,000 | 40,050,000 | 533 | 1286 | 0.46388848 | GRK5,RGS10,TIAL1 |
| 26 | 39,975,000 | 40,125,000 | 534 | 1107 | 0.737223132 | BAG3,RGS10,TIAL1 |
| 26 | 40,050,000 | 40,200,000 | 535 | 907 | 0.86490176 | BAG3,TIAL1 |
| 26 | 40,125,000 | 40,275,000 | 536 | 597 | 0.392225542 | BAG3 |
| 26 | 40,200,000 | 40,350,000 | 537 | 676 | 0.974414386 | MCMBP,SEC23IP,ENSBTAG00000021801 |
| 26 | 40,275,000 | 40,425,000 | 538 | 1046 | 0.122498007 | MCMBP,SEC23IP,ENSBTAG00000021801 |
| 26 | 40,350,000 | 40,500,000 | 539 | 986 | -0.919528114 | SEC23IP |
| 26 | 40,425,000 | 40,575,000 | 540 | 1233 | 0.068804869 | |
| 26 | 40,500,000 | 40,650,000 | 541 | 1590 | 0.681108053 | |
| 26 | 40,575,000 | 40,725,000 | 542 | 1626 | -2.802042917 | |
| 26 | 40,650,000 | 40,800,000 | 543 | 1306 | -3.366072498 | |
| 26 | 40,725,000 | 40,875,000 | 544 | 994 | -0.446844339 | |
| 26 | 40,800,000 | 40,950,000 | 545 | 1032 | 0.028742848 | PPAPDC1A |
| 26 | 40,875,000 | 41,025,000 | 546 | 1012 | 0.339204791 | PPAPDC1A |
| 26 | 40,950,000 | 41,100,000 | 547 | 1105 | 0.761736846 | PPAPDC1A |
| 26 | 41,025,000 | 41,175,000 | 548 | 1274 | 0.322896995 | PPAPDC1A |
| 26 | 41,100,000 | 41,250,000 | 549 | 1262 | -0.304658426 | BRWD2 |
| 26 | 41,175,000 | 41,325,000 | 550 | 885 | -0.061184841 | BRWD2 |
| 26 | 41,250,000 | 41,400,000 | 551 | 586 | 0.252743011 | BRWD2 |
| 26 | 41,325,000 | 41,475,000 | 552 | 603 | 0.063687902 | |
| 26 | 41,400,000 | 41,550,000 | 553 | 813 | -1.174362246 | |
| 26 | 41,475,000 | 41,625,000 | 554 | 1042 | -0.086356174 | |
| 26 | 41,550,000 | 41,700,000 | 555 | 1366 | 1.134554983 | |
| 26 | 41,625,000 | 41,775,000 | 556 | 1693 | 0.78577461 | |
| 26 | 41,700,000 | 41,850,000 | 557 | 1594 | 0.575577531 | FGFR2 |
| 26 | 41,775,000 | 41,925,000 | 558 | 1063 | 0.652545414 | FGFR2 |
| 26 | 41,850,000 | 42,000,000 | 559 | 892 | 1.037512801 | FGFR2 |
| 26 | 41,925,000 | 42,075,000 | 560 | 894 | 1.020280503 | ATE1,FGFR2 |
| 26 | 42,000,000 | 42,150,000 | 561 | 670 | 0.680788535 | ATE1 |
| 26 | 42,075,000 | 42,225,000 | 562 | 759 | 0.846858379 | ATE1,NSMCE4A,ENSBTAG00000047642 |
| 26 | 42,150,000 | 42,300,000 | 563 | 864 | 0.820817836 | ATE1,NSMCE4A,ENSBTAG00000047642 |
| 26 | 42,225,000 | 42,375,000 | 564 | 908 | 0.480834472 | NSMCE4A,TACC2 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 42,300,000 | 42,450,000 | 565 | 1235 | 0.59787465 | TACC2 |
| 26 | 42,375,000 | 42,525,000 | 566 | 1443 | 0.377979764 | BTBD16,TACC2 |
| 26 | 42,450,000 | 42,600,000 | 567 | 1443 | -0.161649871 | BTBD16,PLEKHA1,TACC2 |
| 26 | 42,525,000 | 42,675,000 | 568 | 1327 | 0.432802409 | BTBD16,HTRA1,PLEKHA1 |
| 26 | 42,600,000 | 42,750,000 | 569 | 1651 | 1.123126177 | HTRA1,PLEKHA1 |
| 26 | 42,675,000 | 42,825,000 | 570 | 1655 | 0.889706738 | DMBT1,HTRA1,ENSBTAG00000038684 |
| 26 | 42,750,000 | 42,900,000 | 571 | 1451 | 0.391808186 | C26H10orf120,DMBT1,SPADH1,SPADH2,ENSBTAG00000038684 |
| 26 | 42,825,000 | 42,975,000 | 572 | 1835 | 0.648072987 | C26H10orf120,SPADH1,SPADH2,ENSBTAG00000038684,ENSBTAG00000039755 |
| 26 | 42,900,000 | 43,050,000 | 573 | 1897 | 1.03473566 | ENSBTAG00000023845,ENSBTAG00000039755 |
| 26 | 42,975,000 | 43,125,000 | 574 | 1424 | 0.976487548 | IKZF5,PSTK,ENSBTAG00000023845,ENSBTAG0000003846,ENSBTAG00000039755 |
| 26 | 43,050,000 | 43,200,000 | 575 | 1051 | 0.416756692 | ACADSB,IKZF5,PSTK,ENSBTAG00000023845,ENSBTAG00000023846,ENSBTAG00000048256 |
| 26 | 43,125,000 | 43,275,000 | 576 | 905 | 0.792153602 | ACADSB,HMX2,HMX3,IKZF5,ENSBTAG00000048256 |
| 26 | 43,200,000 | 43,350,000 | 577 | 925 | 1.262658043 | BUB3,HMX2,HMX3 |
| 26 | 43,275,000 | 43,425,000 | 578 | 1351 | 1.131829459 | BUB3 |
| 26 | 43,350,000 | 43,500,000 | 579 | 1271 | 0.652005973 | |
| 26 | 43,425,000 | 43,575,000 | 580 | 936 | 0.536322627 | |
| 26 | 43,500,000 | 43,650,000 | 581 | 1112 | 0.469825095 | |
| 26 | 43,575,000 | 43,725,000 | 582 | 1394 | -0.400527123 | |
| 26 | 43,650,000 | 43,800,000 | 583 | 1494 | -0.706079323 | GPR26 |
| 26 | 43,725,000 | 43,875,000 | 584 | 1166 | -0.800890336 | CPXM2,GPR26 |
| 26 | 43,800,000 | 43,950,000 | 585 | 843 | -1.58620788 | CPXM2 |
| 26 | 43,875,000 | 44,025,000 | 586 | 1109 | -0.748201669 | CPXM2 |
| 26 | 43,950,000 | 44,100,000 | 587 | 1414 | 0.19999051 | CHST15,CPXM2 |
| 26 | 44,025,000 | 44,175,000 | 588 | 1165 | -0.095894467 | CHST15 |
| 26 | 44,100,000 | 44,250,000 | 589 | 1083 | 0.408463059 | |
| 26 | 44,175,000 | 44,325,000 | 590 | 1344 | 0.649947942 | |
| 26 | 44,250,000 | 44,400,000 | 591 | 1433 | 0.139584755 | OAT |
| 26 | 44,325,000 | 44,475,000 | 592 | 1483 | -0.00848033 | LHPP,NKX1-2,OAT |
| 26 | 44,400,000 | 44,550,000 | 593 | 1526 | 0.115033441 | LHPP,NKX1-2 |
| 26 | 44,475,000 | 44,625,000 | 594 | 1227 | 0.296513927 | FAM53B,LHPP |
| 26 | 44,550,000 | 44,700,000 | 595 | 708 | 0.754111288 | FAM53B,LHPP |
| 26 | 44,625,000 | 44,775,000 | 596 | 484 | 1.162285581 | FAM175B,FAM53B |
| 26 | 44,700,000 | 44,850,000 | 597 | 404 | -0.264151463 | FAM175B,ZRANB1 |
| 26 | 44,775,000 | 44,925,000 | 598 | 518 | -0.381588954 | CTBP2,ZRANB1 |
| 26 | 44,850,000 | 45,000,000 | 599 | 977 | 0.611801501 | CTBP2,ZRANB1 |
| 26 | 44,925,000 | 45,075,000 | 600 | 907 | 0.876869662 | CTBP2 |
| 26 | 45,000,000 | 45,150,000 | 601 | 748 | 0.680921998 | |
| 26 | 45,075,000 | 45,225,000 | 602 | 1033 | 0.051412266 | |
| 26 | 45,150,000 | 45,300,000 | 603 | 1138 | 0.076038326 | |
| 26 | 45,225,000 | 45,375,000 | 604 | 1166 | 0.167520191 | |
| 26 | 45,300,000 | 45,450,000 | 605 | 1210 | 0.414559534 | |
| 26 | 45,375,000 | 45,525,000 | 606 | 1446 | 1.177526809 | |
| 26 | 45,450,000 | 45,600,000 | 607 | 1831 | 1.349419868 | EDRF1,TEX36 |
| 26 | 45,525,000 | 45,675,000 | 608 | 2132 | 0.872971478 | BCCIP,EDRF1,TEX36,UROS |
| 26 | 45,600,000 | 45,750,000 | 609 | 2299 | 0.679940917 | BCCIP,DHX32,EDRF1,FANK1,UROS |
| 26 | 45,675,000 | 45,825,000 | 610 | 2059 | 0.718597145 | BCCIP,DHX32,FANK1 |
| 26 | 45,750,000 | 45,900,000 | 611 | 1703 | 0.59055085 | ADAM12,FANK1 |
| 26 | 45,825,000 | 45,975,000 | 612 | 1336 | 0.596318887 | ADAM12,FANK1 |
| 26 | 45,900,000 | 46,050,000 | 613 | 1419 | 1.042826938 | ADAM12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 26 | 45,975,000 | 46,125,000 | 614 | 1418 | 0.888070322 | ADAM12 |
| 26 | 46,050,000 | 46,200,000 | 615 | 1258 | 0.005897882 | ADAM12 |
| 26 | 46,125,000 | 46,275,000 | 616 | 1380 | 0.369264502 | ADAM12,C10orf90 |
| 26 | 46,200,000 | 46,350,000 | 617 | 1007 | 0.540367913 | ADAM12,C10orf90 |
| 26 | 46,275,000 | 46,425,000 | 618 | 746 | 0.34698985 | C10orf90 |
| 26 | 46,350,000 | 46,500,000 | 619 | 785 | -0.378443145 | C10orf90 |
| 26 | 46,425,000 | 46,575,000 | 620 | 1166 | -4.658057531 | |
| 26 | 46,500,000 | 46,650,000 | 621 | 1412 | -3.053359126 | |
| 26 | 46,575,000 | 46,725,000 | 622 | 1246 | 0.123842372 | |
| 26 | 46,650,000 | 46,800,000 | 623 | 1023 | -0.526671605 | DOCK1 |
| 26 | 46,725,000 | 46,875,000 | 624 | 1311 | 0.740241833 | DOCK1 |
| 26 | 46,800,000 | 46,950,000 | 625 | 1598 | 0.239144982 | DOCK1 |
| 26 | 46,875,000 | 47,025,000 | 626 | 1271 | -0.502094342 | DOCK1,FAM196A |
| 26 | 46,950,000 | 47,100,000 | 627 | 1169 | 0.210758942 | DOCK1,FAM196A |
| 26 | 47,025,000 | 47,175,000 | 628 | 1647 | 0.024390309 | DOCK1 |
| 26 | 47,100,000 | 47,250,000 | 629 | 1915 | -0.081580588 | DOCK1 |
| 26 | 47,175,000 | 47,325,000 | 630 | 1670 | 0.199212211 | DOCK1 |
| 26 | 47,250,000 | 47,400,000 | 631 | 1549 | -0.719918498 | DOCK1 |
| 26 | 47,325,000 | 47,475,000 | 632 | 1359 | -0.712792873 | |
| 26 | 47,400,000 | 47,550,000 | 633 | 1382 | 0.687980393 | FOXI2 |
| 26 | 47,475,000 | 47,625,000 | 634 | 1739 | 0.525405578 | FOXI2 |
| 26 | 47,550,000 | 47,700,000 | 635 | 1783 | 0.646491666 | CLRN3 |
| 26 | 47,625,000 | 47,775,000 | 636 | 1382 | 0.921658877 | CLRN3 |
| 26 | 47,700,000 | 47,850,000 | 637 | 1124 | 0.39098259 | PTPRE |
| 26 | 47,775,000 | 47,925,000 | 638 | 1166 | -0.360528228 | MKI67,PTPRE |
| 26 | 47,850,000 | 48,000,000 | 639 | 1257 | -0.266555787 | MKI67 |
| 26 | 47,925,000 | 48,075,000 | 640 | 1181 | 0.632434573 | |
| 26 | 48,000,000 | 48,150,000 | 641 | 1610 | 1.168641419 | |
| 26 | 48,075,000 | 48,225,000 | 642 | 2374 | 0.683697097 | |
| 26 | 48,150,000 | 48,300,000 | 643 | 2294 | 0.335112606 | |
| 26 | 48,225,000 | 48,375,000 | 644 | 2081 | 0.958485076 | |
| 26 | 48,300,000 | 48,450,000 | 645 | 2130 | 1.066418522 | |
| 26 | 48,375,000 | 48,525,000 | 646 | 2060 | 0.632307751 | |
| 26 | 48,450,000 | 48,600,000 | 647 | 1844 | 0.455738902 | |
| 26 | 48,525,000 | 48,675,000 | 648 | 1707 | 0.264244132 | |
| 26 | 48,600,000 | 48,750,000 | 649 | 1662 | 0.197607596 | |
| 26 | 48,675,000 | 48,825,000 | 650 | 1488 | 0.791918301 | |
| 26 | 48,750,000 | 48,900,000 | 651 | 1291 | 0.46511054 | |
| 26 | 48,825,000 | 48,975,000 | 652 | 1229 | 0.084789104 | |
| 26 | 48,900,000 | 49,050,000 | 653 | 1168 | 0.357365614 | |
| 26 | 48,975,000 | 49,125,000 | 654 | 1099 | 0.286191165 | |
| 26 | 49,050,000 | 49,200,000 | 655 | 1168 | 0.469830557 | |
| 26 | 49,125,000 | 49,275,000 | 656 | 1111 | 0.380692459 | |
| 26 | 49,200,000 | 49,350,000 | 657 | 942 | 0.172632316 | |
| 26 | 49,275,000 | 49,425,000 | 658 | 1194 | 0.357419025 | |
| 26 | 49,350,000 | 49,500,000 | 659 | 1282 | 0.749771207 | |
| 26 | 49,425,000 | 49,575,000 | 660 | 865 | 1.048790542 | EBF3 |
| 26 | 49,500,000 | 49,650,000 | 661 | 537 | 0.42188094 | EBF3,ENSBTAG00000047164 |
| 26 | 49,575,000 | 49,725,000 | 662 | 538 | -3.023273516 | ENSBTAG00000047164 |
| 26 | 49,650,000 | 49,800,000 | 663 | 861 | -1.713410908 | GLRX3 |
| 26 | 49,725,000 | 49,875,000 | 664 | 1423 | -0.57260314 | GLRX3 |
| 26 | 49,800,000 | 49,950,000 | 665 | 1695 | -0.418501302 | |
| 26 | 49,875,000 | 50,025,000 | 666 | 1652 | 0.359262846 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 26 | 49,950,000 | 50,100,000 | 667 | 1400 | -0.660695194 | |
| 26 | 50,025,000 | 50,175,000 | 668 | 1038 | -1.477529202 | |
| 26 | 50,100,000 | 50,250,000 | 669 | 1069 | 0.280448278 | |
| 26 | 50,175,000 | 50,325,000 | 670 | 1171 | 0.523820815 | |
| 26 | 50,250,000 | 50,400,000 | 671 | 1627 | 0.760864307 | |
| 26 | 50,325,000 | 50,475,000 | 672 | 1952 | 0.767556671 | |
| 26 | 50,400,000 | 50,550,000 | 673 | 1472 | 0.234090777 | SYCE1 |
| 26 | 50,475,000 | 50,625,000 | 674 | 1039 | 0.182644252 | CYP2E1,SYCE1,ENSBTAG00000005267 |
| 26 | 50,550,000 | 50,700,000 | 675 | 1201 | 0.340413522 | CYP2E1,ENSBTAG00000005267,ENSBTAG0000000724 8,ENSBTAG00000010461,ENSBTAG00000026185 |
| 26 | 50,625,000 | 50,775,000 | 676 | 1895 | 0.847113889 | ENSBTAG0000007248,ENSBTAG00000010461,ENSBT AG00000026185 |
| 26 | 50,700,000 | 50,850,000 | 677 | 2079 | 0.43249418 | KNDC1 |
| 26 | 50,775,000 | 50,925,000 | 678 | 1576 | 0.077410524 | GPR123,KNDC1 |
| 26 | 50,850,000 | 51,000,000 | 679 | 1497 | 0.547143826 | GPR123 |
| 26 | 50,925,000 | 51,075,000 | 680 | 1736 | 0.271901969 | CFAP46 |
| 26 | 51,000,000 | 51,150,000 | 681 | 1502 | 0.198228009 | CFAP46,INPP5A,ENSBTAG00000015651 |
| 26 | 51,075,000 | 51,225,000 | 682 | 1341 | 0.860776226 | INPP5A,ENSBTAG00000015651 |
| 26 | 51,150,000 | 51,300,000 | 683 | 1584 | 0.86986906 | INPP5A |
| 26 | 51,225,000 | 51,375,000 | 684 | 1831 | 0.33858058 | BNIP3 |
| 26 | 51,300,000 | 51,450,000 | 685 | 2135 | 0.030968325 | BNIP3 |
| 26 | 51,375,000 | 51,525,000 | 686 | 1941 | 0.192460834 | DPYSL4,JAKMIP3 |
| 26 | 51,450,000 | 51,600,000 | 687 | 1739 | 0.501222394 | DPYSL4,JAKMIP3,STK32C |
| 26 | 51,525,000 | 51,675,000 | 688 | 1551 | 0.565197644 | DPYSL4,LRRC27,PWWP2B,STK32C |
| 26 | 51,600,000 | 51,681,464 | 689 | 655 | 0.347810915 | LRRC27,PWWP2B,STK32C |
| 27 | 0 | 150,000 | 1 | 722 | -0.471134039 | CLN8 |
| 27 | 75,000 | 225,000 | 2 | 1319 | 0.041251867 | ARHGEF10,CLN8 |
| 27 | 150,000 | 300,000 | 3 | 1436 | 0.412937018 | ARHGEF10,KBTBD11 |
| 27 | 225,000 | 375,000 | 4 | 1165 | 0.467826264 | ARHGEF10,KBTBD11,MYOM2 |
| 27 | 300,000 | 450,000 | 5 | 827 | -1.077576131 | MYOM2 |
| 27 | 375,000 | 525,000 | 6 | 656 | -2.416211789 | MYOM2 |
| 27 | 450,000 | 600,000 | 7 | 572 | -1.895081375 | |
| 27 | 525,000 | 675,000 | 8 | 418 | -0.188116451 | |
| 27 | 600,000 | 750,000 | 9 | 343 | -0.069588598 | |
| 27 | 675,000 | 825,000 | 10 | 630 | -4.253004135 | |
| 27 | 750,000 | 900,000 | 11 | 1020 | -2.530886195 | |
| 27 | 825,000 | 975,000 | 12 | 862 | -0.280465218 | |
| 27 | 900,000 | 1,050,000 | 13 | 980 | 0.368499276 | CSMD1 |
| 27 | 975,000 | 1,125,000 | 14 | 1201 | 0.564816167 | CSMD1 |
| 27 | 1,050,000 | 1,200,000 | 15 | 947 | 0.603912773 | CSMD1 |
| 27 | 1,125,000 | 1,275,000 | 16 | 961 | 0.02543792 | CSMD1 |
| 27 | 1,200,000 | 1,350,000 | 17 | 1524 | 0.388229576 | CSMD1 |
| 27 | 1,275,000 | 1,425,000 | 18 | 1909 | 0.776679174 | CSMD1 |
| 27 | 1,350,000 | 1,500,000 | 19 | 1434 | 0.887640061 | CSMD1 |
| 27 | 1,425,000 | 1,575,000 | 20 | 1257 | 0.952625228 | |
| 27 | 1,500,000 | 1,650,000 | 21 | 1641 | 0.933928817 | |
| 27 | 1,575,000 | 1,725,000 | 22 | 1481 | 0.008615922 | |
| 27 | 1,650,000 | 1,800,000 | 23 | 1389 | -0.422668392 | |
| 27 | 1,725,000 | 1,875,000 | 24 | 1369 | 0.895010684 | |
| 27 | 1,800,000 | 1,950,000 | 25 | 1176 | 1.102091533 | |
| 27 | 1,875,000 | 2,025,000 | 26 | 1253 | 1.152938618 | |
| 27 | 1,950,000 | 2,100,000 | 27 | 1454 | 0.918784924 | |
| 27 | 2,025,000 | 2,175,000 | 28 | 1700 | 0.516163055 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 27 | 2,100,000 | 2,250,000 | 29 | 1559 | 0.370104205 | |
| 27 | 2,175,000 | 2,325,000 | 30 | 1172 | 0.627774333 | |
| 27 | 2,250,000 | 2,400,000 | 31 | 998 | 0.87506457 | |
| 27 | 2,325,000 | 2,475,000 | 32 | 953 | 1.004686949 | |
| 27 | 2,400,000 | 2,550,000 | 33 | 1193 | 0.212178673 | |
| 27 | 2,475,000 | 2,625,000 | 34 | 1531 | 0.005622461 | |
| 27 | 2,550,000 | 2,700,000 | 35 | 1702 | 0.515383676 | |
| 27 | 2,625,000 | 2,775,000 | 36 | 1823 | 0.832704121 | |
| 27 | 2,700,000 | 2,850,000 | 37 | 1715 | 0.030786148 | |
| 27 | 2,775,000 | 2,925,000 | 38 | 1549 | -0.442338866 | |
| 27 | 2,850,000 | 3,000,000 | 39 | 1328 | 0.050193049 | |
| 27 | 2,925,000 | 3,075,000 | 40 | 1137 | -1.060110142 | |
| 27 | 3,000,000 | 3,150,000 | 41 | 1067 | -0.777952948 | |
| 27 | 3,075,000 | 3,225,000 | 42 | 1050 | -0.079707624 | ENSBTAG00000035013 |
| 27 | 3,150,000 | 3,300,000 | 43 | 1223 | -0.707164279 | ENSBTAG00000035013 |
| 27 | 3,225,000 | 3,375,000 | 44 | 1476 | -0.289174769 | |
| 27 | 3,300,000 | 3,450,000 | 45 | 1357 | 0.273650855 | |
| 27 | 3,375,000 | 3,525,000 | 46 | 1336 | -0.73013646 | |
| 27 | 3,450,000 | 3,600,000 | 47 | 1685 | 0.143921901 | |
| 27 | 3,525,000 | 3,675,000 | 48 | 1678 | 0.722167679 | |
| 27 | 3,600,000 | 3,750,000 | 49 | 1453 | -0.343177444 | |
| 27 | 3,675,000 | 3,825,000 | 50 | 1077 | -0.553503358 | |
| 27 | 3,750,000 | 3,900,000 | 51 | 1166 | 0.241655161 | |
| 27 | 3,825,000 | 3,975,000 | 52 | 1081 | 0.577379627 | |
| 27 | 3,900,000 | 4,050,000 | 53 | 469 | 0.136800453 | |
| 27 | 3,975,000 | 4,125,000 | 54 | 378 | -0.470205554 | |
| 27 | 4,050,000 | 4,200,000 | 55 | 408 | 0.095189888 | |
| 27 | 4,125,000 | 4,275,000 | 56 | 753 | 1.251170952 | |
| 27 | 4,200,000 | 4,350,000 | 57 | 1056 | 1.051897888 | MCPH1 |
| 27 | 4,275,000 | 4,425,000 | 58 | 642 | 0.348682947 | ANGPT2,MCPH1 |
| 27 | 4,350,000 | 4,500,000 | 59 | 393 | 0.838180283 | ANGPT2,MCPH1 |
| 27 | 4,425,000 | 4,575,000 | 60 | 757 | 1.053067178 | ANGPT2,MCPH1 |
| 27 | 4,500,000 | 4,650,000 | 61 | 894 | 1.087541422 | MCPH1 |
| 27 | 4,575,000 | 4,725,000 | 62 | 744 | 0.176271502 | AGPAT5 |
| 27 | 4,650,000 | 4,800,000 | 63 | 942 | 0.0229981 | AGPAT5,XKR5,ENSBTAG00000007477,ENSBTAG00000008519 |
| 27 | 4,725,000 | 4,875,000 | 64 | 1082 | 0.145802887 | AGPAT5,XKR5,ENSBTAG00000007477,ENSBTAG00000008519 |
| 27 | 4,800,000 | 4,950,000 | 65 | 910 | 0.065227603 | DEFB300,SPAG11,TAP,ENSBTAG00000007477,ENSBTAG00000008519 |
| 27 | 4,875,000 | 5,025,000 | 66 | 669 | 0.437278059 | DEFB300,SPAG11,TAP,ZNF705A,ENSBTAG00000007340 |
| 27 | 4,950,000 | 5,100,000 | 67 | 1020 | 0.888375406 | ZNF705A,ENSBTAG00000007340 |
| 27 | 5,025,000 | 5,175,000 | 68 | 1172 | 0.542692064 | LAP,ENSBTAG00000007340,ENSBTAG00000046937,ENSBTAG00000047421 |
| 27 | 5,100,000 | 5,250,000 | 69 | 708 | 0.01919285 | DEFB7,LAP,ENSBTAG00000039856,ENSBTAG00000046937,ENSBTAG00000047421,ENSBTAG00000047740 |
| 27 | 5,175,000 | 5,325,000 | 70 | 990 | 0.559242911 | DEFB7,ENSBTAG00000039856,ENSBTAG00000047740 |
| 27 | 5,250,000 | 5,400,000 | 71 | 1510 | 0.771781357 | ENSBTAG00000023157,ENSBTAG00000047363 |
| 27 | 5,325,000 | 5,475,000 | 72 | 1273 | 0.823659468 | DEFB,ENSBTAG00000023157,ENSBTAG00000047284,ENSBTAG00000047363 |
| 27 | 5,400,000 | 5,550,000 | 73 | 1069 | 0.45966822 | DEFB,EBD,ENSBTAG00000047284 |

| | | | | | | |
|----|-----------|-----------|-----|------|--------------|---|
| 27 | 5,475,000 | 5,625,000 | 74 | 878 | 0.430245544 | DEFB5,EBD |
| 27 | 5,550,000 | 5,700,000 | 75 | 560 | 0.485833383 | DEFB5 |
| 27 | 5,625,000 | 5,775,000 | 76 | 775 | 0.600455102 | ENSBTAG00000010248 |
| 27 | 5,700,000 | 5,850,000 | 77 | 1201 | 0.790620186 | DEFB1,ENSBTAG00000010248,ENSBTAG00000046405 |
| 27 | 5,775,000 | 5,925,000 | 78 | 1069 | 0.656127269 | DEFB1,ENSBTAG00000046405 |
| 27 | 5,850,000 | 6,000,000 | 79 | 1286 | 0.331431387 | |
| 27 | 5,925,000 | 6,075,000 | 80 | 1233 | 0.354730467 | ENSBTAG00000038504 |
| 27 | 6,000,000 | 6,150,000 | 81 | 317 | 0.383979669 | ENSBTAG00000038504 |
| 27 | 6,075,000 | 6,225,000 | 82 | 386 | 0.310952174 | DEFB405 |
| 27 | 6,150,000 | 6,300,000 | 83 | 962 | -0.005193625 | DEFB405,GPM6A |
| 27 | 6,225,000 | 6,375,000 | 84 | 1250 | 0.179133406 | GPM6A |
| 27 | 6,300,000 | 6,450,000 | 85 | 1379 | 0.754431869 | GPM6A |
| 27 | 6,375,000 | 6,525,000 | 86 | 1577 | 0.010982807 | GPM6A,ENSBTAG00000046071 |
| 27 | 6,450,000 | 6,600,000 | 87 | 1524 | -0.263639026 | ENSBTAG00000046071 |
| 27 | 6,525,000 | 6,675,000 | 88 | 1412 | 0.688878178 | SPATA4,WDR17 |
| 27 | 6,600,000 | 6,750,000 | 89 | 1325 | 0.917620535 | ASB5,SPATA4,WDR17 |
| 27 | 6,675,000 | 6,825,000 | 90 | 1061 | 0.494262978 | ASB5,SPATA4,SPCS3 |
| 27 | 6,750,000 | 6,900,000 | 91 | 992 | 0.516848965 | SPCS3 |
| 27 | 6,825,000 | 6,975,000 | 92 | 977 | -1.037510096 | |
| 27 | 6,900,000 | 7,050,000 | 93 | 644 | -1.585150172 | VEGFC |
| 27 | 6,975,000 | 7,125,000 | 94 | 311 | 0.407302624 | VEGFC |
| 27 | 7,050,000 | 7,200,000 | 95 | 346 | 0.661165456 | VEGFC |
| 27 | 7,125,000 | 7,275,000 | 96 | 417 | 1.216016997 | |
| 27 | 7,200,000 | 7,350,000 | 97 | 536 | 1.369650828 | |
| 27 | 7,275,000 | 7,425,000 | 98 | 659 | 1.118922228 | |
| 27 | 7,350,000 | 7,500,000 | 99 | 682 | 0.865964395 | |
| 27 | 7,425,000 | 7,575,000 | 100 | 808 | 0.038256127 | NEIL3 |
| 27 | 7,500,000 | 7,650,000 | 101 | 959 | -0.098172828 | NEIL3 |
| 27 | 7,575,000 | 7,725,000 | 102 | 750 | 0.104528961 | AGA,NEIL3 |
| 27 | 7,650,000 | 7,800,000 | 103 | 786 | 0.416662867 | AGA |
| 27 | 7,725,000 | 7,875,000 | 104 | 878 | 0.389571883 | |
| 27 | 7,800,000 | 7,950,000 | 105 | 1032 | -0.412511555 | |
| 27 | 7,875,000 | 8,025,000 | 106 | 1194 | 0.097174873 | |
| 27 | 7,950,000 | 8,100,000 | 107 | 1000 | 0.27975218 | |
| 27 | 8,025,000 | 8,175,000 | 108 | 744 | -1.181092045 | |
| 27 | 8,100,000 | 8,250,000 | 109 | 712 | -1.408400312 | |
| 27 | 8,175,000 | 8,325,000 | 110 | 1040 | -0.575895206 | |
| 27 | 8,250,000 | 8,400,000 | 111 | 1184 | -0.003453207 | |
| 27 | 8,325,000 | 8,475,000 | 112 | 1169 | -0.20372861 | |
| 27 | 8,400,000 | 8,550,000 | 113 | 900 | -1.299816851 | |
| 27 | 8,475,000 | 8,625,000 | 114 | 513 | -1.593939896 | |
| 27 | 8,550,000 | 8,700,000 | 115 | 532 | -2.60958169 | |
| 27 | 8,625,000 | 8,775,000 | 116 | 576 | -2.901280795 | |
| 27 | 8,700,000 | 8,850,000 | 117 | 1106 | 0.627681097 | |
| 27 | 8,775,000 | 8,925,000 | 118 | 1450 | 0.453552007 | |
| 27 | 8,850,000 | 9,000,000 | 119 | 1196 | 0.018844893 | |
| 27 | 8,925,000 | 9,075,000 | 120 | 1335 | -0.283381354 | |
| 27 | 9,000,000 | 9,150,000 | 121 | 1447 | 0.515819403 | |
| 27 | 9,075,000 | 9,225,000 | 122 | 1086 | 0.918777586 | |
| 27 | 9,150,000 | 9,300,000 | 123 | 600 | -0.0179101 | |
| 27 | 9,225,000 | 9,375,000 | 124 | 841 | 0.667393206 | |
| 27 | 9,300,000 | 9,450,000 | 125 | 971 | 0.911459647 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 27 | 9,375,000 | 9,525,000 | 126 | 832 | 0.027688413 | |
| 27 | 9,450,000 | 9,600,000 | 127 | 865 | -0.64096407 | |
| 27 | 9,525,000 | 9,675,000 | 128 | 656 | -0.245434849 | |
| 27 | 9,600,000 | 9,750,000 | 129 | 410 | 0.478748174 | |
| 27 | 9,675,000 | 9,825,000 | 130 | 508 | 0.85903871 | |
| 27 | 9,750,000 | 9,900,000 | 131 | 683 | 0.936942396 | |
| 27 | 9,825,000 | 9,975,000 | 132 | 959 | 0.539147626 | |
| 27 | 9,900,000 | 10,050,000 | 133 | 901 | -0.514048906 | |
| 27 | 9,975,000 | 10,125,000 | 134 | 747 | -1.519192625 | |
| 27 | 10,050,000 | 10,200,000 | 135 | 848 | 0.151895097 | |
| 27 | 10,125,000 | 10,275,000 | 136 | 799 | -0.973227633 | |
| 27 | 10,200,000 | 10,350,000 | 137 | 909 | -0.770966579 | |
| 27 | 10,275,000 | 10,425,000 | 138 | 943 | 0.624545268 | |
| 27 | 10,350,000 | 10,500,000 | 139 | 1191 | 0.978199778 | |
| 27 | 10,425,000 | 10,575,000 | 140 | 1320 | 1.079584946 | |
| 27 | 10,500,000 | 10,650,000 | 141 | 821 | 0.990767457 | |
| 27 | 10,575,000 | 10,725,000 | 142 | 679 | -0.246251399 | |
| 27 | 10,650,000 | 10,800,000 | 143 | 942 | 0.052090173 | |
| 27 | 10,725,000 | 10,875,000 | 144 | 1066 | -1.375538146 | |
| 27 | 10,800,000 | 10,950,000 | 145 | 1192 | -0.445761603 | |
| 27 | 10,875,000 | 11,025,000 | 146 | 1235 | 0.891117045 | |
| 27 | 10,950,000 | 11,100,000 | 147 | 1408 | 0.605179591 | |
| 27 | 11,025,000 | 11,175,000 | 148 | 1185 | 0.681396511 | |
| 27 | 11,100,000 | 11,250,000 | 149 | 801 | 0.831163766 | |
| 27 | 11,175,000 | 11,325,000 | 150 | 827 | 0.737688757 | |
| 27 | 11,250,000 | 11,400,000 | 151 | 875 | 0.450831148 | |
| 27 | 11,325,000 | 11,475,000 | 152 | 1099 | 0.614620656 | |
| 27 | 11,400,000 | 11,550,000 | 153 | 1241 | 0.943304539 | |
| 27 | 11,475,000 | 11,625,000 | 154 | 1229 | 1.154836713 | |
| 27 | 11,550,000 | 11,700,000 | 155 | 1209 | 0.953664782 | |
| 27 | 11,625,000 | 11,775,000 | 156 | 955 | 0.549877382 | |
| 27 | 11,700,000 | 11,850,000 | 157 | 533 | 0.248230618 | |
| 27 | 11,775,000 | 11,925,000 | 158 | 583 | -2.027232925 | |
| 27 | 11,850,000 | 12,000,000 | 159 | 566 | -2.177920794 | |
| 27 | 11,925,000 | 12,075,000 | 160 | 659 | -0.129614569 | |
| 27 | 12,000,000 | 12,150,000 | 161 | 828 | 0.316078645 | |
| 27 | 12,075,000 | 12,225,000 | 162 | 597 | 0.568070871 | |
| 27 | 12,150,000 | 12,300,000 | 163 | 665 | 0.202494233 | |
| 27 | 12,225,000 | 12,375,000 | 164 | 869 | 0.371664769 | ENSBTAG00000047749 |
| 27 | 12,300,000 | 12,450,000 | 165 | 912 | 0.319128164 | ENSBTAG00000047749 |
| 27 | 12,375,000 | 12,525,000 | 166 | 1078 | 0.222180305 | ENSBTAG00000047749 |
| 27 | 12,450,000 | 12,600,000 | 167 | 1209 | -0.268490679 | |
| 27 | 12,525,000 | 12,675,000 | 168 | 1042 | -0.446319008 | ENSBTAG00000021133 |
| 27 | 12,600,000 | 12,750,000 | 169 | 1087 | -0.210182208 | ENSBTAG00000021133 |
| 27 | 12,675,000 | 12,825,000 | 170 | 1004 | -0.175915703 | ENSBTAG00000021133 |
| 27 | 12,750,000 | 12,900,000 | 171 | 1056 | 0.962506302 | ENSBTAG00000021133 |
| 27 | 12,825,000 | 12,975,000 | 172 | 1300 | 0.631546703 | DCTD |
| 27 | 12,900,000 | 13,050,000 | 173 | 886 | -0.004569684 | DCTD |
| 27 | 12,975,000 | 13,125,000 | 174 | 482 | 0.337402607 | |
| 27 | 13,050,000 | 13,200,000 | 175 | 640 | 0.510123511 | WWC2 |
| 27 | 13,125,000 | 13,275,000 | 176 | 842 | 0.589508869 | WWC2,ENSBTAG00000012207,ENSBTAG0000001220 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 27 | 13,200,000 | 13,350,000 | 177 | 677 | -0.218067443 | CDKN2AIP,ING2,WWC2,ENSBTAG00000012207,ENSBTAG00000012209 |
| 27 | 13,275,000 | 13,425,000 | 178 | 783 | -1.159936059 | CDKN2AIP,ING2,RWDD4A,TRAPPC11 |
| 27 | 13,350,000 | 13,500,000 | 179 | 880 | -1.560216495 | RWDD4A,STOX2,TRAPPC11 |
| 27 | 13,425,000 | 13,575,000 | 180 | 793 | -1.013905957 | STOX2,TRAPPC11 |
| 27 | 13,500,000 | 13,650,000 | 181 | 639 | 0.001317842 | STOX2 |
| 27 | 13,575,000 | 13,725,000 | 182 | 409 | 0.930517169 | STOX2 |
| 27 | 13,650,000 | 13,800,000 | 183 | 417 | 0.923990756 | ENPP6,STOX2 |
| 27 | 13,725,000 | 13,875,000 | 184 | 466 | -1.005667033 | ENPP6 |
| 27 | 13,800,000 | 13,950,000 | 185 | 518 | -2.749773245 | ENPP6,IRF2 |
| 27 | 13,875,000 | 14,025,000 | 186 | 540 | -2.509629764 | IRF2 |
| 27 | 13,950,000 | 14,100,000 | 187 | 706 | -0.205933084 | CASP3,IRF2 |
| 27 | 14,025,000 | 14,175,000 | 188 | 1021 | 0.474888804 | CASP3,CENPU,PRIMPOL |
| 27 | 14,100,000 | 14,250,000 | 189 | 1215 | 0.713289304 | ACSL1,CASP3,CENPU,PRIMPOL |
| 27 | 14,175,000 | 14,325,000 | 190 | 873 | -0.57366379 | ACSL1,CENPU |
| 27 | 14,250,000 | 14,400,000 | 191 | 603 | -2.059177936 | ACSL1 |
| 27 | 14,325,000 | 14,475,000 | 192 | 478 | -0.880103172 | HELT |
| 27 | 14,400,000 | 14,550,000 | 193 | 596 | -0.364170331 | HELT,SLC25A4 |
| 27 | 14,475,000 | 14,625,000 | 194 | 729 | -0.361578633 | CFAP97,SLC25A4,SNX25 |
| 27 | 14,550,000 | 14,700,000 | 195 | 931 | 0.852793369 | CFAP97,LRP2BP,SLC25A4,SNX25 |
| 27 | 14,625,000 | 14,775,000 | 196 | 942 | 0.905697519 | ANKRD37,C4orf47,CCDC110,LRP2BP,PDLIM3,SNX25,UFSP2 |
| 27 | 14,700,000 | 14,850,000 | 197 | 521 | 0.280072645 | ANKRD37,C4orf47,CCDC110,PDLIM3,UFSP2 |
| 27 | 14,775,000 | 14,925,000 | 198 | 659 | 0.627246177 | PDLIM3,SORBS2 |
| 27 | 14,850,000 | 15,000,000 | 199 | 947 | -0.16269441 | SORBS2 |
| 27 | 14,925,000 | 15,075,000 | 200 | 1026 | -0.150775805 | SORBS2 |
| 27 | 15,000,000 | 15,150,000 | 201 | 992 | 0.773440094 | SORBS2 |
| 27 | 15,075,000 | 15,225,000 | 202 | 1071 | 0.213525796 | |
| 27 | 15,150,000 | 15,300,000 | 203 | 1173 | -0.274570349 | FAM149A,TLR3 |
| 27 | 15,225,000 | 15,375,000 | 204 | 1135 | -0.940540657 | CYP4V2,F11,FAM149A,KLKB1,TLR3 |
| 27 | 15,300,000 | 15,450,000 | 205 | 1348 | -0.690728716 | CYP4V2,F11,FAM149A,KLKB1,MTNR1A |
| 27 | 15,375,000 | 15,525,000 | 206 | 1329 | -0.142665493 | FAT1,MTNR1A |
| 27 | 15,450,000 | 15,600,000 | 207 | 1073 | 0.008906368 | FAT1,MTNR1A |
| 27 | 15,525,000 | 15,675,000 | 208 | 1138 | 0.637444143 | FAT1 |
| 27 | 15,600,000 | 15,750,000 | 209 | 1258 | -0.160520166 | FAT1 |
| 27 | 15,675,000 | 15,825,000 | 210 | 1072 | -1.220276319 | |
| 27 | 15,750,000 | 15,900,000 | 211 | 748 | -0.644601126 | |
| 27 | 15,825,000 | 15,975,000 | 212 | 747 | -0.932349189 | |
| 27 | 15,900,000 | 16,050,000 | 213 | 942 | -0.306746086 | |
| 27 | 15,975,000 | 16,125,000 | 214 | 800 | 0.21236665 | |
| 27 | 16,050,000 | 16,200,000 | 215 | 682 | 0.837023183 | |
| 27 | 16,125,000 | 16,275,000 | 216 | 787 | 0.929038675 | |
| 27 | 16,200,000 | 16,350,000 | 217 | 854 | 0.297728725 | |
| 27 | 16,275,000 | 16,425,000 | 218 | 909 | 0.18365213 | |
| 27 | 16,350,000 | 16,500,000 | 219 | 842 | -0.988321846 | |
| 27 | 16,425,000 | 16,575,000 | 220 | 846 | -0.849176548 | |
| 27 | 16,500,000 | 16,650,000 | 221 | 786 | 0.232005123 | ZFP42 |
| 27 | 16,575,000 | 16,725,000 | 222 | 1023 | 0.151534175 | TRIML2,ZFP42 |
| 27 | 16,650,000 | 16,800,000 | 223 | 1414 | 0.351913792 | TRIML1,TRIML2 |
| 27 | 16,725,000 | 16,875,000 | 224 | 1446 | -0.047888229 | TRIML1,ENSBTAG00000045531 |
| 27 | 16,800,000 | 16,950,000 | 225 | 1365 | 0.121532555 | ENSBTAG00000045531 |
| 27 | 16,875,000 | 17,025,000 | 226 | 1379 | 0.379495136 | |
| 27 | 16,950,000 | 17,100,000 | 227 | 1083 | -0.610877719 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------|
| 27 | 17,025,000 | 17,175,000 | 228 | 775 | -1.823623893 | |
| 27 | 17,100,000 | 17,250,000 | 229 | 965 | -0.487211824 | |
| 27 | 17,175,000 | 17,325,000 | 230 | 812 | 0.699453597 | |
| 27 | 17,250,000 | 17,400,000 | 231 | 600 | 0.755423319 | |
| 27 | 17,325,000 | 17,475,000 | 232 | 698 | 0.790122301 | |
| 27 | 17,400,000 | 17,550,000 | 233 | 589 | 0.12802261 | ENSBTAG00000047159 |
| 27 | 17,475,000 | 17,625,000 | 234 | 499 | -0.136593948 | ENSBTAG00000047159 |
| 27 | 17,550,000 | 17,700,000 | 235 | 700 | -1.630354957 | |
| 27 | 17,625,000 | 17,775,000 | 236 | 797 | -2.620308225 | |
| 27 | 17,700,000 | 17,850,000 | 237 | 1078 | -0.923053048 | |
| 27 | 17,775,000 | 17,925,000 | 238 | 1015 | -0.098610662 | |
| 27 | 17,850,000 | 18,000,000 | 239 | 377 | 0.40176441 | |
| 27 | 17,925,000 | 18,075,000 | 240 | 152 | -0.177393742 | |
| 27 | 18,000,000 | 18,150,000 | 241 | 137 | 0.496614462 | |
| 27 | 18,075,000 | 18,225,000 | 242 | 347 | 1.323923399 | |
| 27 | 18,150,000 | 18,300,000 | 243 | 484 | 0.830216123 | ASAH1,FRG1 |
| 27 | 18,225,000 | 18,375,000 | 244 | 297 | 0.319578294 | ASAH1,FRG1,PCM1 |
| 27 | 18,300,000 | 18,450,000 | 245 | 215 | 1.081756784 | ASAH1,PCM1 |
| 27 | 18,375,000 | 18,525,000 | 246 | 337 | 1.31202499 | FGL1,PCM1 |
| 27 | 18,450,000 | 18,600,000 | 247 | 404 | 1.225368916 | FGL1,MTUS1 |
| 27 | 18,525,000 | 18,675,000 | 248 | 817 | 0.443499425 | MTUS1 |
| 27 | 18,600,000 | 18,750,000 | 249 | 1164 | 0.032587413 | MTUS1,PDGFRL |
| 27 | 18,675,000 | 18,825,000 | 250 | 980 | 0.057184124 | MTUS1,PDGFRL,SLC7A2 |
| 27 | 18,750,000 | 18,900,000 | 251 | 598 | 0.307861191 | PDGFRL,SLC7A2 |
| 27 | 18,825,000 | 18,975,000 | 252 | 379 | 0.56699658 | MTMR7 |
| 27 | 18,900,000 | 19,050,000 | 253 | 536 | -1.325562141 | MTMR7,VPS37A |
| 27 | 18,975,000 | 19,125,000 | 254 | 685 | -1.810931976 | CNOT7,MTMR7,VPS37A,ZDHHC2 |
| 27 | 19,050,000 | 19,200,000 | 255 | 511 | -0.555958844 | CNOT7,MICU3,VPS37A,ZDHHC2 |
| 27 | 19,125,000 | 19,275,000 | 256 | 264 | 0.338007687 | FGF20,MICU3 |
| 27 | 19,200,000 | 19,350,000 | 257 | 539 | 0.02751061 | FGF20,MICU3 |
| 27 | 19,275,000 | 19,425,000 | 258 | 771 | 0.574861178 | FGF20 |
| 27 | 19,350,000 | 19,500,000 | 259 | 742 | 1.132690408 | |
| 27 | 19,425,000 | 19,575,000 | 260 | 857 | 1.252024128 | |
| 27 | 19,500,000 | 19,650,000 | 261 | 951 | 1.382475838 | |
| 27 | 19,575,000 | 19,725,000 | 262 | 681 | 0.723474464 | |
| 27 | 19,650,000 | 19,800,000 | 263 | 467 | -0.858382395 | |
| 27 | 19,725,000 | 19,875,000 | 264 | 574 | -0.439090731 | |
| 27 | 19,800,000 | 19,950,000 | 265 | 757 | 0.685419815 | |
| 27 | 19,875,000 | 20,025,000 | 266 | 741 | 0.779804738 | MSR1 |
| 27 | 19,950,000 | 20,100,000 | 267 | 808 | 0.453432622 | MSR1 |
| 27 | 20,025,000 | 20,175,000 | 268 | 940 | 0.725446585 | MSR1 |
| 27 | 20,100,000 | 20,250,000 | 269 | 875 | 0.69696531 | ENSBTAG00000022767 |
| 27 | 20,175,000 | 20,325,000 | 270 | 902 | -0.558773954 | ENSBTAG00000022767 |
| 27 | 20,250,000 | 20,400,000 | 271 | 1043 | -0.455063773 | |
| 27 | 20,325,000 | 20,475,000 | 272 | 806 | 0.147243864 | TUSC3 |
| 27 | 20,400,000 | 20,550,000 | 273 | 572 | 0.534472042 | TUSC3 |
| 27 | 20,475,000 | 20,625,000 | 274 | 1051 | 1.146675034 | TUSC3,ENSBTAG00000045830 |
| 27 | 20,550,000 | 20,700,000 | 275 | 1152 | 1.333044558 | TUSC3,ENSBTAG00000045830 |
| 27 | 20,625,000 | 20,775,000 | 276 | 849 | 0.454691823 | TUSC3 |
| 27 | 20,700,000 | 20,850,000 | 277 | 1214 | -0.132762706 | |
| 27 | 20,775,000 | 20,925,000 | 278 | 1428 | 0.012493707 | |
| 27 | 20,850,000 | 21,000,000 | 279 | 1060 | 0.38379846 | |
| 27 | 20,925,000 | 21,075,000 | 280 | 1068 | 0.989227559 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 21,000,000 | 21,150,000 | 281 | 1219 | 1.275776112 | |
| 27 | 21,075,000 | 21,225,000 | 282 | 989 | 1.303263731 | |
| 27 | 21,150,000 | 21,300,000 | 283 | 688 | 1.006083483 | |
| 27 | 21,225,000 | 21,375,000 | 284 | 811 | -0.176979928 | |
| 27 | 21,300,000 | 21,450,000 | 285 | 1022 | -0.300239431 | |
| 27 | 21,375,000 | 21,525,000 | 286 | 749 | 0.081255313 | |
| 27 | 21,450,000 | 21,600,000 | 287 | 550 | 0.597072479 | |
| 27 | 21,525,000 | 21,675,000 | 288 | 968 | -0.35837059 | |
| 27 | 21,600,000 | 21,750,000 | 289 | 1325 | -0.537507294 | |
| 27 | 21,675,000 | 21,825,000 | 290 | 965 | -0.202183312 | |
| 27 | 21,750,000 | 21,900,000 | 291 | 629 | -0.408339404 | |
| 27 | 21,825,000 | 21,975,000 | 292 | 1302 | -0.675433338 | |
| 27 | 21,900,000 | 22,050,000 | 293 | 1245 | -0.414358345 | |
| 27 | 21,975,000 | 22,125,000 | 294 | 1064 | 0.300788282 | |
| 27 | 22,050,000 | 22,200,000 | 295 | 1294 | 0.143590086 | |
| 27 | 22,125,000 | 22,275,000 | 296 | 1113 | 0.125166521 | |
| 27 | 22,200,000 | 22,350,000 | 297 | 1138 | -0.017575191 | |
| 27 | 22,275,000 | 22,425,000 | 298 | 1074 | -0.092854479 | ENSBTAG00000045990 |
| 27 | 22,350,000 | 22,500,000 | 299 | 971 | 0.851268215 | C27H8orf48,ENSBTAG00000045990 |
| 27 | 22,425,000 | 22,575,000 | 300 | 754 | 0.311227683 | C27H8orf48,ENSBTAG00000024526 |
| 27 | 22,500,000 | 22,650,000 | 301 | 506 | -1.339841033 | C27H8orf48,ENSBTAG00000024526 |
| 27 | 22,575,000 | 22,725,000 | 302 | 460 | -0.030289219 | ENSBTAG00000024526 |
| 27 | 22,650,000 | 22,800,000 | 303 | 531 | 0.627724062 | |
| 27 | 22,725,000 | 22,875,000 | 304 | 444 | 0.610155927 | DLC1 |
| 27 | 22,800,000 | 22,950,000 | 305 | 494 | 0.406809711 | DLC1 |
| 27 | 22,875,000 | 23,025,000 | 306 | 510 | 0.327662874 | DLC1 |
| 27 | 22,950,000 | 23,100,000 | 307 | 499 | 0.470026385 | DLC1,KIAA1456 |
| 27 | 23,025,000 | 23,175,000 | 308 | 736 | -0.327956707 | KIAA1456 |
| 27 | 23,100,000 | 23,250,000 | 309 | 1066 | -1.170031772 | KIAA1456 |
| 27 | 23,175,000 | 23,325,000 | 310 | 1090 | -0.631360948 | LONRF1 |
| 27 | 23,250,000 | 23,400,000 | 311 | 709 | 0.052732531 | LONRF1 |
| 27 | 23,325,000 | 23,475,000 | 312 | 661 | 0.301865738 | LONRF1,ENSBTAG00000000357 |
| 27 | 23,400,000 | 23,550,000 | 313 | 663 | 0.262367066 | ENSBTAG00000000357 |
| 27 | 23,475,000 | 23,625,000 | 314 | 562 | 0.579041151 | ENSBTAG00000000357 |
| 27 | 23,550,000 | 23,700,000 | 315 | 584 | 0.368470097 | |
| 27 | 23,625,000 | 23,775,000 | 316 | 455 | -0.397262553 | |
| 27 | 23,700,000 | 23,850,000 | 317 | 477 | -0.133906679 | |
| 27 | 23,775,000 | 23,925,000 | 318 | 578 | 0.257718699 | CLDN23 |
| 27 | 23,850,000 | 24,000,000 | 319 | 802 | 0.460941074 | CLDN23 |
| 27 | 23,925,000 | 24,075,000 | 320 | 893 | 0.314705863 | |
| 27 | 24,000,000 | 24,150,000 | 321 | 572 | 0.004235164 | MFHAS1 |
| 27 | 24,075,000 | 24,225,000 | 322 | 430 | 0.299502174 | MFHAS1,THEX1 |
| 27 | 24,150,000 | 24,300,000 | 323 | 540 | 0.490484399 | THEX1 |
| 27 | 24,225,000 | 24,375,000 | 324 | 602 | 0.55400234 | PPP1R3B |
| 27 | 24,300,000 | 24,450,000 | 325 | 592 | 0.731018953 | PPP1R3B |
| 27 | 24,375,000 | 24,525,000 | 326 | 665 | 0.183927518 | |
| 27 | 24,450,000 | 24,600,000 | 327 | 671 | -0.056364902 | |
| 27 | 24,525,000 | 24,675,000 | 328 | 908 | 0.471083927 | TNKS |
| 27 | 24,600,000 | 24,750,000 | 329 | 1358 | 0.764654602 | TNKS |
| 27 | 24,675,000 | 24,825,000 | 330 | 992 | 0.8514034 | DUSP4,TNKS |
| 27 | 24,750,000 | 24,900,000 | 331 | 527 | 0.100030373 | DUSP4,TNKS |
| 27 | 24,825,000 | 24,975,000 | 332 | 459 | -0.195781142 | DUSP4 |
| 27 | 24,900,000 | 25,050,000 | 333 | 445 | 0.503607786 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 24,975,000 | 25,125,000 | 334 | 496 | 0.390168876 | |
| 27 | 25,050,000 | 25,200,000 | 335 | 632 | 0.940767516 | |
| 27 | 25,125,000 | 25,275,000 | 336 | 817 | 0.908607396 | |
| 27 | 25,200,000 | 25,350,000 | 337 | 972 | 0.37766334 | |
| 27 | 25,275,000 | 25,425,000 | 338 | 1238 | 0.61409243 | LEPROTL1,TMEM66 |
| 27 | 25,350,000 | 25,500,000 | 339 | 1061 | 0.811555411 | DCTN6,LEPROTL1,MBOAT4,TMEM66 |
| 27 | 25,425,000 | 25,575,000 | 340 | 896 | 0.471184496 | DCTN6,LEPROTL1,MBOAT4 |
| 27 | 25,500,000 | 25,650,000 | 341 | 1152 | -0.124090747 | RBPMS |
| 27 | 25,575,000 | 25,725,000 | 342 | 1182 | -0.116468279 | RBPMS |
| 27 | 25,650,000 | 25,800,000 | 343 | 1180 | 0.25618154 | RBPMS |
| 27 | 25,725,000 | 25,875,000 | 344 | 1113 | 0.702446766 | GTF2E2,RPMS |
| 27 | 25,800,000 | 25,950,000 | 345 | 892 | 0.732213975 | GSR,GTF2E2,RPMS |
| 27 | 25,875,000 | 26,025,000 | 346 | 763 | 0.577888721 | GSR,GTF2E2,UBXN8 |
| 27 | 25,950,000 | 26,100,000 | 347 | 790 | -0.35839112 | GSR,PPP2CB,TEX15,UBXN8 |
| 27 | 26,025,000 | 26,175,000 | 348 | 612 | -0.669921068 | PPP2CB,TEX15,UBXN8 |
| 27 | 26,100,000 | 26,250,000 | 349 | 682 | 0.769345489 | |
| 27 | 26,175,000 | 26,325,000 | 350 | 1193 | 1.180313771 | PURG,WRN |
| 27 | 26,250,000 | 26,400,000 | 351 | 733 | 1.390438111 | PURG,WRN |
| 27 | 26,325,000 | 26,475,000 | 352 | 661 | 0.507535671 | WRN |
| 27 | 26,400,000 | 26,550,000 | 353 | 853 | 0.554942387 | WRN |
| 27 | 26,475,000 | 26,625,000 | 354 | 1053 | 0.642093162 | |
| 27 | 26,550,000 | 26,700,000 | 355 | 1477 | 0.751668146 | |
| 27 | 26,625,000 | 26,775,000 | 356 | 1135 | 0.944495952 | |
| 27 | 26,700,000 | 26,850,000 | 357 | 1060 | 0.596395402 | |
| 27 | 26,775,000 | 26,925,000 | 358 | 1061 | 0.288441497 | |
| 27 | 26,850,000 | 27,000,000 | 359 | 918 | 0.174810541 | |
| 27 | 26,925,000 | 27,075,000 | 360 | 1026 | 0.497521555 | |
| 27 | 27,000,000 | 27,150,000 | 361 | 1080 | 0.193784398 | |
| 27 | 27,075,000 | 27,225,000 | 362 | 737 | -0.289344581 | |
| 27 | 27,150,000 | 27,300,000 | 363 | 522 | 0.064612714 | |
| 27 | 27,225,000 | 27,375,000 | 364 | 663 | 0.455333765 | |
| 27 | 27,300,000 | 27,450,000 | 365 | 989 | -0.026951794 | |
| 27 | 27,375,000 | 27,525,000 | 366 | 1282 | -0.188731371 | |
| 27 | 27,450,000 | 27,600,000 | 367 | 1174 | 0.166302356 | |
| 27 | 27,525,000 | 27,675,000 | 368 | 962 | 0.721237527 | GGFBPP5 |
| 27 | 27,600,000 | 27,750,000 | 369 | 1004 | 1.088252317 | GGFBPP5 |
| 27 | 27,675,000 | 27,825,000 | 370 | 873 | -0.283699357 | GGFBPP5 |
| 27 | 27,750,000 | 27,900,000 | 371 | 803 | -0.287616819 | GGFBPP5 |
| 27 | 27,825,000 | 27,975,000 | 372 | 1007 | 0.714884942 | GGFBPP5 |
| 27 | 27,900,000 | 28,050,000 | 373 | 1054 | 0.201178404 | |
| 27 | 27,975,000 | 28,125,000 | 374 | 1223 | -1.305504223 | |
| 27 | 28,050,000 | 28,200,000 | 375 | 1143 | -0.972362191 | |
| 27 | 28,125,000 | 28,275,000 | 376 | 930 | 0.81057978 | |
| 27 | 28,200,000 | 28,350,000 | 377 | 845 | -0.604748506 | FUT10,PSIP1 |
| 27 | 28,275,000 | 28,425,000 | 378 | 759 | -0.85274084 | C27H8ORF41,FUT10,MAK16,PSIP1 |
| 27 | 28,350,000 | 28,500,000 | 379 | 580 | -0.251899532 | C27H8ORF41,FUT10,MAK16,RNF122 |
| 27 | 28,425,000 | 28,575,000 | 380 | 187 | -0.823895009 | C27H8ORF41,RNF122 |
| 27 | 28,500,000 | 28,650,000 | 381 | 3 | -4.50786958 | |
| 27 | 28,575,000 | 28,725,000 | 382 | 5 | -0.237944925 | |
| 27 | 28,650,000 | 28,800,000 | 383 | 6 | -0.874623316 | |
| 27 | 28,725,000 | 28,875,000 | 384 | 4 | 0.433026847 | |
| 27 | 28,800,000 | 28,950,000 | 385 | 40 | -4.589520984 | |
| 27 | 28,875,000 | 29,025,000 | 386 | 519 | 0.050084754 | DUSP26 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 27 | 28,950,000 | 29,100,000 | 387 | 755 | -0.217717495 | DUSP26 |
| 27 | 29,025,000 | 29,175,000 | 388 | 583 | -0.933807767 | |
| 27 | 29,100,000 | 29,250,000 | 389 | 736 | 0.187906463 | |
| 27 | 29,175,000 | 29,325,000 | 390 | 946 | -0.450040438 | |
| 27 | 29,250,000 | 29,400,000 | 391 | 1388 | 0.346879955 | |
| 27 | 29,325,000 | 29,475,000 | 392 | 1394 | 1.174805312 | |
| 27 | 29,400,000 | 29,550,000 | 393 | 914 | 1.062157119 | |
| 27 | 29,475,000 | 29,625,000 | 394 | 577 | -0.690464176 | |
| 27 | 29,550,000 | 29,700,000 | 395 | 395 | -1.481212983 | |
| 27 | 29,625,000 | 29,775,000 | 396 | 627 | 0.113867294 | |
| 27 | 29,700,000 | 29,850,000 | 397 | 1031 | 0.622739331 | |
| 27 | 29,775,000 | 29,925,000 | 398 | 1141 | 0.928977977 | |
| 27 | 29,850,000 | 30,000,000 | 399 | 874 | 0.681034255 | |
| 27 | 29,925,000 | 30,075,000 | 400 | 966 | -0.113514843 | |
| 27 | 30,000,000 | 30,150,000 | 401 | 1026 | 0.273678132 | |
| 27 | 30,075,000 | 30,225,000 | 402 | 671 | -0.067685656 | |
| 27 | 30,150,000 | 30,300,000 | 403 | 757 | -0.538179068 | |
| 27 | 30,225,000 | 30,375,000 | 404 | 813 | -0.800782576 | |
| 27 | 30,300,000 | 30,450,000 | 405 | 849 | -0.12595428 | UNC5D |
| 27 | 30,375,000 | 30,525,000 | 406 | 1128 | 0.197370869 | UNC5D |
| 27 | 30,450,000 | 30,600,000 | 407 | 1077 | -0.282370275 | UNC5D |
| 27 | 30,525,000 | 30,675,000 | 408 | 1172 | -0.739300372 | UNC5D |
| 27 | 30,600,000 | 30,750,000 | 409 | 1328 | -0.740794719 | UNC5D |
| 27 | 30,675,000 | 30,825,000 | 410 | 1190 | -0.294509412 | UNC5D |
| 27 | 30,750,000 | 30,900,000 | 411 | 950 | 0.263633455 | UNC5D |
| 27 | 30,825,000 | 30,975,000 | 412 | 658 | 0.17629988 | UNC5D |
| 27 | 30,900,000 | 31,050,000 | 413 | 610 | -1.009479548 | UNC5D |
| 27 | 30,975,000 | 31,125,000 | 414 | 700 | 0.163920336 | UNC5D |
| 27 | 31,050,000 | 31,200,000 | 415 | 604 | -0.328713546 | UNC5D,ENSBTAG00000026515 |
| 27 | 31,125,000 | 31,275,000 | 416 | 835 | -1.724513788 | ENSBTAG00000026515 |
| 27 | 31,200,000 | 31,350,000 | 417 | 1136 | -0.908182586 | |
| 27 | 31,275,000 | 31,425,000 | 418 | 717 | -0.096029425 | |
| 27 | 31,350,000 | 31,500,000 | 419 | 678 | -0.108922451 | |
| 27 | 31,425,000 | 31,575,000 | 420 | 776 | -0.917178224 | |
| 27 | 31,500,000 | 31,650,000 | 421 | 486 | -1.694610998 | |
| 27 | 31,575,000 | 31,725,000 | 422 | 704 | -0.223614574 | |
| 27 | 31,650,000 | 31,800,000 | 423 | 1041 | 0.624601799 | |
| 27 | 31,725,000 | 31,875,000 | 424 | 1057 | 0.662808954 | KCNU1 |
| 27 | 31,800,000 | 31,950,000 | 425 | 1103 | 0.189605495 | KCNU1 |
| 27 | 31,875,000 | 32,025,000 | 426 | 1251 | 0.199708939 | KCNU1 |
| 27 | 31,950,000 | 32,100,000 | 427 | 1235 | 0.542260377 | KCNU1 |
| 27 | 32,025,000 | 32,175,000 | 428 | 951 | 1.024284623 | |
| 27 | 32,100,000 | 32,250,000 | 429 | 1119 | 1.163855312 | |
| 27 | 32,175,000 | 32,325,000 | 430 | 1112 | 0.556391403 | |
| 27 | 32,250,000 | 32,400,000 | 431 | 743 | -0.431573221 | |
| 27 | 32,325,000 | 32,475,000 | 432 | 642 | -0.257279305 | ENSBTAG00000033381 |
| 27 | 32,400,000 | 32,550,000 | 433 | 759 | 0.314869768 | ENSBTAG00000033381 |
| 27 | 32,475,000 | 32,625,000 | 434 | 912 | 0.940632912 | |
| 27 | 32,550,000 | 32,700,000 | 435 | 622 | 1.023735394 | ZNF703 |
| 27 | 32,625,000 | 32,775,000 | 436 | 484 | 0.576044058 | ERLIN2,GPR124,PROSC,ZNF703 |
| 27 | 32,700,000 | 32,850,000 | 437 | 764 | -0.053382288 | BRF2,ERLIN2,GPR124,PROSC,RAB11FIP1 |
| 27 | 32,775,000 | 32,925,000 | 438 | 992 | -0.286905745 | ADRB3,BRF2,GOT1L1,GPR124,RAB11FIP1 |
| 27 | 32,850,000 | 33,000,000 | 439 | 1042 | -0.766075073 | ADRB3,ASH2L,EIF4EBP1,GOT1L1,RAB11FIP1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 27 | 32,925,000 | 33,075,000 | 440 | 871 | -0.767700129 | ASH2L,BAG4,EIF4EBP1,LSM1,PPAPDC1B,STAR |
| 27 | 33,000,000 | 33,150,000 | 441 | 519 | -0.062574972 | ASH2L,BAG4,DDHD2,LSM1,PPAPDC1B,STAR,WHSC1L1 |
| 27 | 33,075,000 | 33,225,000 | 442 | 388 | -0.282598965 | BAG4,DDHD2,WHSC1L1 |
| 27 | 33,150,000 | 33,300,000 | 443 | 442 | -0.58633165 | FGFR1,LETM2,WHSC1L1 |
| 27 | 33,225,000 | 33,375,000 | 444 | 476 | -0.447180397 | FGFR1,LETM2,WHSC1L1 |
| 27 | 33,300,000 | 33,450,000 | 445 | 487 | 0.457080248 | |
| 27 | 33,375,000 | 33,525,000 | 446 | 678 | 0.389151487 | |
| 27 | 33,450,000 | 33,600,000 | 447 | 1222 | -0.42516456 | TACC1 |
| 27 | 33,525,000 | 33,675,000 | 448 | 1271 | 0.344080901 | TACC1 |
| 27 | 33,600,000 | 33,750,000 | 449 | 864 | 0.413229619 | PLEKHA2,TACC1 |
| 27 | 33,675,000 | 33,825,000 | 450 | 745 | -0.040184381 | ADAM-9,HTRA4,PLEKHA2,TM2D2 |
| 27 | 33,750,000 | 33,900,000 | 451 | 741 | 0.308483969 | ADAM-9,HTRA4,PLEKHA2,TM2D2 |
| 27 | 33,825,000 | 33,975,000 | 452 | 899 | 0.537060301 | ADAM-9,ADAM32 |
| 27 | 33,900,000 | 34,050,000 | 453 | 1061 | 0.838553103 | ADAM32 |
| 27 | 33,975,000 | 34,125,000 | 454 | 778 | 0.571970941 | ADAM32,ENSBTAG00000040445 |
| 27 | 34,050,000 | 34,200,000 | 455 | 540 | 0.478981897 | ADAM32,ENSBTAG00000040445 |
| 27 | 34,125,000 | 34,275,000 | 456 | 581 | 0.318916608 | ADAM2,ENSBTAG00000009406,ENSBTAG00000040445 |
| 27 | 34,200,000 | 34,350,000 | 457 | 628 | -0.105538362 | ADAM2,ENSBTAG00000009406,ENSBTAG00000040445 |
| 27 | 34,275,000 | 34,425,000 | 458 | 931 | 0.883262093 | ADAM2,ENSBTAG00000033312 |
| 27 | 34,350,000 | 34,500,000 | 459 | 1113 | 1.130095414 | ADAM2,ENSBTAG00000033312 |
| 27 | 34,425,000 | 34,575,000 | 460 | 766 | 0.835725228 | ADAM18,ENSBTAG00000033312 |
| 27 | 34,500,000 | 34,650,000 | 461 | 886 | 0.884501903 | ADAM18 |
| 27 | 34,575,000 | 34,725,000 | 462 | 1157 | 0.33244588 | ADAM18,IDO1,IDO2 |
| 27 | 34,650,000 | 34,800,000 | 463 | 995 | -0.380623527 | IDO1,IDO2 |
| 27 | 34,725,000 | 34,875,000 | 464 | 844 | 0.380331726 | IDO2 |
| 27 | 34,800,000 | 34,950,000 | 465 | 598 | 0.695901191 | C27H8orf4,ENSBTAG00000018713 |
| 27 | 34,875,000 | 35,025,000 | 466 | 740 | 0.447814617 | C27H8orf4,ENSBTAG00000018713 |
| 27 | 34,950,000 | 35,100,000 | 467 | 1337 | 0.595757211 | |
| 27 | 35,025,000 | 35,175,000 | 468 | 1532 | 0.517039794 | |
| 27 | 35,100,000 | 35,250,000 | 469 | 1419 | 0.131909717 | ZMAT4 |
| 27 | 35,175,000 | 35,325,000 | 470 | 1656 | 0.498299789 | ZMAT4 |
| 27 | 35,250,000 | 35,400,000 | 471 | 1597 | 1.028537062 | ZMAT4 |
| 27 | 35,325,000 | 35,475,000 | 472 | 1246 | 0.95324602 | ZMAT4 |
| 27 | 35,400,000 | 35,550,000 | 473 | 1049 | 0.339311238 | ZMAT4 |
| 27 | 35,475,000 | 35,625,000 | 474 | 920 | 0.471329264 | ZMAT4 |
| 27 | 35,550,000 | 35,700,000 | 475 | 1060 | 0.890052488 | ZMAT4 |
| 27 | 35,625,000 | 35,775,000 | 476 | 1300 | 1.025942068 | |
| 27 | 35,700,000 | 35,850,000 | 477 | 1006 | 0.509080631 | |
| 27 | 35,775,000 | 35,925,000 | 478 | 704 | 0.226440482 | SFRP1 |
| 27 | 35,850,000 | 36,000,000 | 479 | 862 | 0.309449186 | SFRP1 |
| 27 | 35,925,000 | 36,075,000 | 480 | 982 | 0.222803924 | SFRP1 |
| 27 | 36,000,000 | 36,150,000 | 481 | 803 | 0.484478878 | GINS4,GOLGA7 |
| 27 | 36,075,000 | 36,225,000 | 482 | 634 | -0.259498728 | AGPAT6,GINS4,GOLGA7 |
| 27 | 36,150,000 | 36,300,000 | 483 | 807 | -0.3058376 | AGPAT6,ANK1,GINS4,NKX6-3 |
| 27 | 36,225,000 | 36,375,000 | 484 | 1357 | 0.456462551 | AGPAT6,ANK1,NKX6-3 |
| 27 | 36,300,000 | 36,450,000 | 485 | 1730 | 0.518751703 | ANK1 |
| 27 | 36,375,000 | 36,525,000 | 486 | 1486 | 0.61203289 | |
| 27 | 36,450,000 | 36,600,000 | 487 | 933 | 0.908849047 | KAT6A |
| 27 | 36,525,000 | 36,675,000 | 488 | 525 | 0.967844936 | KAT6A |
| 27 | 36,600,000 | 36,750,000 | 489 | 428 | 0.609969471 | AP3M2,KAT6A,PLAT |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------------|
| 27 | 36,675,000 | 36,825,000 | 490 | 491 | 0.816711965 | AP3M2,IKBKB,PLAT |
| 27 | 36,750,000 | 36,900,000 | 491 | 739 | 1.21117326 | IKBKB,PLAT,POLB |
| 27 | 36,825,000 | 36,975,000 | 492 | 783 | 1.032429035 | DKK4,IKBKB,POLB,SLC20A2,VDAC3 |
| 27 | 36,900,000 | 37,050,000 | 493 | 798 | 0.011923505 | DKK4,POLB,SLC20A2,VDAC3 |
| 27 | 36,975,000 | 37,125,000 | 494 | 870 | -0.032913438 | SLC20A2,SMIM19 |
| 27 | 37,050,000 | 37,200,000 | 495 | 899 | 0.320388707 | CHRNA6,CHRN3,SMIM19 |
| 27 | 37,125,000 | 37,275,000 | 496 | 1015 | 0.537644085 | CHRNA6,CHRN3,RNF170,THAP1 |
| 27 | 37,200,000 | 37,350,000 | 497 | 1313 | 0.764314459 | CHRNA6,HOOK3,RNF170,THAP1 |
| 27 | 37,275,000 | 37,425,000 | 498 | 1684 | 1.045497909 | FNTA,HOOK3,POMK |
| 27 | 37,350,000 | 37,500,000 | 499 | 1690 | 1.194988304 | FNTA,HGSNAT,HOOK3,INTS10,POMK |
| 27 | 37,425,000 | 37,575,000 | 500 | 988 | -0.268112054 | HGSNAT,INTS10,POMK |
| 27 | 37,500,000 | 37,650,000 | 501 | 189 | -2.742643286 | INTS10 |
| 27 | 37,575,000 | 37,725,000 | 502 | 201 | 0.111697673 | |
| 27 | 37,650,000 | 37,800,000 | 503 | 574 | 0.062696611 | |
| 27 | 37,725,000 | 37,875,000 | 504 | 824 | 0.459961477 | CSGALNACT1 |
| 27 | 37,800,000 | 37,950,000 | 505 | 1049 | -0.037428046 | CSGALNACT1 |
| 27 | 37,875,000 | 38,025,000 | 506 | 1044 | -0.026566167 | CSGALNACT1 |
| 27 | 37,950,000 | 38,100,000 | 507 | 1128 | 0.475395843 | CSGALNACT1,SH2D4A |
| 27 | 38,025,000 | 38,175,000 | 508 | 1628 | -0.012183943 | SH2D4A |
| 27 | 38,100,000 | 38,250,000 | 509 | 2070 | -0.036201271 | |
| 27 | 38,175,000 | 38,325,000 | 510 | 2013 | 0.401694782 | |
| 27 | 38,250,000 | 38,400,000 | 511 | 1743 | 0.912719782 | |
| 27 | 38,325,000 | 38,475,000 | 512 | 1721 | 1.06255614 | |
| 27 | 38,400,000 | 38,550,000 | 513 | 1587 | 1.01846361 | PSD3 |
| 27 | 38,475,000 | 38,625,000 | 514 | 1317 | 0.518808702 | PSD3 |
| 27 | 38,550,000 | 38,700,000 | 515 | 1268 | -0.165937676 | PSD3 |
| 27 | 38,625,000 | 38,775,000 | 516 | 1738 | -0.603433161 | PSD3 |
| 27 | 38,700,000 | 38,850,000 | 517 | 1627 | -1.43070395 | PSD3 |
| 27 | 38,775,000 | 38,925,000 | 518 | 1262 | -1.168739806 | NAT1,PSD3 |
| 27 | 38,850,000 | 39,000,000 | 519 | 1456 | 0.544169171 | NAT1 |
| 27 | 38,925,000 | 39,075,000 | 520 | 1682 | 0.052424895 | |
| 27 | 39,000,000 | 39,150,000 | 521 | 1390 | -1.345414204 | LRRC3B |
| 27 | 39,075,000 | 39,225,000 | 522 | 824 | -0.152916248 | LRRC3B |
| 27 | 39,150,000 | 39,300,000 | 523 | 788 | 1.174647187 | |
| 27 | 39,225,000 | 39,375,000 | 524 | 1096 | 0.864375314 | |
| 27 | 39,300,000 | 39,450,000 | 525 | 1158 | 0.382662866 | |
| 27 | 39,375,000 | 39,525,000 | 526 | 1070 | -0.114661528 | |
| 27 | 39,450,000 | 39,600,000 | 527 | 1129 | -0.58187666 | |
| 27 | 39,525,000 | 39,675,000 | 528 | 957 | -2.298865157 | |
| 27 | 39,600,000 | 39,750,000 | 529 | 796 | -2.277943019 | |
| 27 | 39,675,000 | 39,825,000 | 530 | 1092 | -0.331052811 | |
| 27 | 39,750,000 | 39,900,000 | 531 | 1065 | -0.168019671 | NGLY1,OXSM |
| 27 | 39,825,000 | 39,975,000 | 532 | 887 | 0.429631107 | NGLY1,OXSM |
| 27 | 39,900,000 | 40,050,000 | 533 | 1109 | -0.245369231 | NGLY1,TOP2B |
| 27 | 39,975,000 | 40,125,000 | 534 | 1213 | -1.413243213 | TOP2B |
| 27 | 40,050,000 | 40,200,000 | 535 | 1439 | -1.477130694 | RARB,TOP2B |
| 27 | 40,125,000 | 40,275,000 | 536 | 944 | -1.239275064 | RARB |
| 27 | 40,200,000 | 40,350,000 | 537 | 378 | 0.342091467 | RARB |
| 27 | 40,275,000 | 40,425,000 | 538 | 606 | 0.62026844 | |
| 27 | 40,350,000 | 40,500,000 | 539 | 936 | 0.484219592 | |
| 27 | 40,425,000 | 40,575,000 | 540 | 1011 | 0.653834885 | |
| 27 | 40,500,000 | 40,650,000 | 541 | 898 | 1.006165653 | |
| 27 | 40,575,000 | 40,725,000 | 542 | 836 | 0.38676616 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 27 | 40,650,000 | 40,800,000 | 543 | 698 | -0.377222435 | |
| 27 | 40,725,000 | 40,875,000 | 544 | 761 | -0.803206748 | |
| 27 | 40,800,000 | 40,950,000 | 545 | 840 | -0.717992131 | |
| 27 | 40,875,000 | 41,025,000 | 546 | 644 | 0.251451101 | |
| 27 | 40,950,000 | 41,100,000 | 547 | 518 | 0.686157407 | MCM4,ENSBTAG00000045690 |
| 27 | 41,025,000 | 41,175,000 | 548 | 562 | 0.306898667 | MCM4,ENSBTAG00000045690 |
| 27 | 41,100,000 | 41,250,000 | 549 | 593 | -0.049163913 | |
| 27 | 41,175,000 | 41,325,000 | 550 | 938 | 0.297025912 | |
| 27 | 41,250,000 | 41,400,000 | 551 | 1209 | 0.138858481 | |
| 27 | 41,325,000 | 41,475,000 | 552 | 898 | -0.301629595 | |
| 27 | 41,400,000 | 41,550,000 | 553 | 609 | -0.755335188 | |
| 27 | 41,475,000 | 41,625,000 | 554 | 626 | -0.583058259 | |
| 27 | 41,550,000 | 41,700,000 | 555 | 744 | 0.252152801 | THRB |
| 27 | 41,625,000 | 41,775,000 | 556 | 872 | -0.541479486 | THRB |
| 27 | 41,700,000 | 41,850,000 | 557 | 786 | -1.02121926 | THRB |
| 27 | 41,775,000 | 41,925,000 | 558 | 544 | 0.218279612 | NR1D2 |
| 27 | 41,850,000 | 42,000,000 | 559 | 563 | 0.661725933 | NKIRAS1,NR1D2,RPL15 |
| 27 | 41,925,000 | 42,075,000 | 560 | 575 | 0.773211225 | NKIRAS1,RPL15 |
| 27 | 42,000,000 | 42,150,000 | 561 | 468 | 0.557255621 | |
| 27 | 42,075,000 | 42,225,000 | 562 | 522 | -0.088062967 | UBE2E2 |
| 27 | 42,150,000 | 42,300,000 | 563 | 659 | -0.80767479 | UBE2E2 |
| 27 | 42,225,000 | 42,375,000 | 564 | 732 | -1.454640418 | UBE2E2 |
| 27 | 42,300,000 | 42,450,000 | 565 | 602 | -0.961498677 | ENSBTAG00000021882 |
| 27 | 42,375,000 | 42,525,000 | 566 | 456 | 0.795918625 | ENSBTAG00000021882 |
| 27 | 42,450,000 | 42,600,000 | 567 | 504 | 0.725460745 | ENSBTAG00000021882 |
| 27 | 42,525,000 | 42,675,000 | 568 | 487 | 0.952550882 | |
| 27 | 42,600,000 | 42,750,000 | 569 | 632 | 1.024962964 | |
| 27 | 42,675,000 | 42,825,000 | 570 | 973 | 0.153176009 | |
| 27 | 42,750,000 | 42,900,000 | 571 | 1280 | 0.471348838 | |
| 27 | 42,825,000 | 42,975,000 | 572 | 1410 | 1.182124817 | |
| 27 | 42,900,000 | 43,050,000 | 573 | 937 | 0.983182592 | |
| 27 | 42,975,000 | 43,125,000 | 574 | 941 | 0.600090658 | |
| 27 | 43,050,000 | 43,200,000 | 575 | 988 | 0.52966995 | |
| 27 | 43,125,000 | 43,275,000 | 576 | 990 | 0.818116391 | |
| 27 | 43,200,000 | 43,350,000 | 577 | 1574 | -0.122284664 | |
| 27 | 43,275,000 | 43,425,000 | 578 | 1791 | -1.764471473 | |
| 27 | 43,350,000 | 43,500,000 | 579 | 1496 | -2.71592372 | |
| 27 | 43,425,000 | 43,575,000 | 580 | 712 | -3.123493592 | |
| 27 | 43,500,000 | 43,650,000 | 581 | 501 | -1.719035827 | |
| 27 | 43,575,000 | 43,725,000 | 582 | 931 | -0.529784524 | |
| 27 | 43,650,000 | 43,800,000 | 583 | 1226 | -0.32306502 | |
| 27 | 43,725,000 | 43,875,000 | 584 | 1457 | 0.044376563 | |
| 27 | 43,800,000 | 43,950,000 | 585 | 1233 | 0.362137134 | |
| 27 | 43,875,000 | 44,025,000 | 586 | 933 | 0.110959224 | |
| 27 | 43,950,000 | 44,100,000 | 587 | 1108 | 0.47905675 | |
| 27 | 44,025,000 | 44,175,000 | 588 | 1285 | 0.511516234 | |
| 27 | 44,100,000 | 44,250,000 | 589 | 1006 | 0.110005833 | |
| 27 | 44,175,000 | 44,325,000 | 590 | 1084 | 0.749369579 | |
| 27 | 44,250,000 | 44,400,000 | 591 | 1300 | 0.919959674 | |
| 27 | 44,325,000 | 44,475,000 | 592 | 1151 | -0.372655898 | |
| 27 | 44,400,000 | 44,550,000 | 593 | 920 | -1.586150869 | |
| 27 | 44,475,000 | 44,625,000 | 594 | 787 | 0.130746188 | |
| 27 | 44,550,000 | 44,700,000 | 595 | 1035 | 0.814901464 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 27 | 44,625,000 | 44,775,000 | 596 | 1015 | 0.62839084 | |
| 27 | 44,700,000 | 44,850,000 | 597 | 726 | 0.53543761 | |
| 27 | 44,775,000 | 44,925,000 | 598 | 682 | 0.327941245 | |
| 27 | 44,850,000 | 45,000,000 | 599 | 825 | -0.354734012 | |
| 27 | 44,925,000 | 45,075,000 | 600 | 981 | -0.250629844 | |
| 27 | 45,000,000 | 45,150,000 | 601 | 1007 | -0.004314987 | |
| 27 | 45,075,000 | 45,225,000 | 602 | 857 | 0.57707477 | |
| 27 | 45,150,000 | 45,300,000 | 603 | 1313 | 0.312496664 | |
| 27 | 45,225,000 | 45,375,000 | 604 | 1102 | -0.152262272 | |
| 27 | 45,300,000 | 45,407,902 | 605 | 389 | -1.17739966 | |
| 28 | 0 | 150,000 | 1 | 1109 | 0.215300178 | |
| 28 | 75,000 | 225,000 | 2 | 1223 | -0.516416857 | RAB4A |
| 28 | 150,000 | 300,000 | 3 | 1422 | -0.56035919 | CCSAP,RAB4A |
| 28 | 225,000 | 375,000 | 4 | 1620 | -1.595131419 | CCSAP,RAB4A |
| 28 | 300,000 | 450,000 | 5 | 1172 | -2.185842608 | ACTA1,NUP133 |
| 28 | 375,000 | 525,000 | 6 | 779 | -0.080278425 | ABCB10,ACTA1,NUP133 |
| 28 | 450,000 | 600,000 | 7 | 644 | 0.667014606 | ABCB10,NUP133,TAF5L,URB2 |
| 28 | 525,000 | 675,000 | 8 | 884 | -0.148537581 | ABCB10,TAF5L,URB2 |
| 28 | 600,000 | 750,000 | 9 | 1013 | 0.019490922 | URB2 |
| 28 | 675,000 | 825,000 | 10 | 838 | 0.105484028 | |
| 28 | 750,000 | 900,000 | 11 | 762 | -0.357924109 | |
| 28 | 825,000 | 975,000 | 12 | 506 | 0.378595176 | |
| 28 | 900,000 | 1,050,000 | 13 | 1031 | 0.643045618 | |
| 28 | 975,000 | 1,125,000 | 14 | 1024 | 0.586941046 | |
| 28 | 1,050,000 | 1,200,000 | 15 | 683 | 0.578506363 | GALNT2 |
| 28 | 1,125,000 | 1,275,000 | 16 | 1121 | 0.728117965 | GALNT2 |
| 28 | 1,200,000 | 1,350,000 | 17 | 1172 | -0.345896848 | GALNT2,PGBD5 |
| 28 | 1,275,000 | 1,425,000 | 18 | 1321 | -1.077508576 | GALNT2,PGBD5 |
| 28 | 1,350,000 | 1,500,000 | 19 | 1658 | 0.418611097 | PGBD5 |
| 28 | 1,425,000 | 1,575,000 | 20 | 1747 | 0.822473235 | |
| 28 | 1,500,000 | 1,650,000 | 21 | 1990 | 0.022122915 | |
| 28 | 1,575,000 | 1,725,000 | 22 | 2045 | 0.074346051 | ENSBTAG00000048153 |
| 28 | 1,650,000 | 1,800,000 | 23 | 1647 | 0.452855276 | ENSBTAG00000048153 |
| 28 | 1,725,000 | 1,875,000 | 24 | 1595 | 0.440338812 | ENSBTAG00000048153 |
| 28 | 1,800,000 | 1,950,000 | 25 | 1283 | -1.091503412 | |
| 28 | 1,875,000 | 2,025,000 | 26 | 976 | -1.383218599 | |
| 28 | 1,950,000 | 2,100,000 | 27 | 1256 | 0.503457763 | |
| 28 | 2,025,000 | 2,175,000 | 28 | 1234 | 1.05042894 | RHOU |
| 28 | 2,100,000 | 2,250,000 | 29 | 1011 | 0.583595195 | RHOU |
| 28 | 2,175,000 | 2,325,000 | 30 | 1018 | 0.380469723 | RHOU |
| 28 | 2,250,000 | 2,400,000 | 31 | 1057 | 0.575762057 | |
| 28 | 2,325,000 | 2,475,000 | 32 | 874 | 0.474422293 | |
| 28 | 2,400,000 | 2,550,000 | 33 | 967 | 0.482104704 | |
| 28 | 2,475,000 | 2,625,000 | 34 | 959 | -0.180886478 | OR5AS1,ENSBTAG00000033555,ENSBTAG00000039837 |
| 28 | 2,550,000 | 2,700,000 | 35 | 533 | -2.289748472 | OR5AS1,ENSBTAG00000033555,ENSBTAG00000039837 |
| 28 | 2,625,000 | 2,775,000 | 36 | 298 | -1.155629017 | OR5D14,ENSBTAG00000038418 |
| 28 | 2,700,000 | 2,850,000 | 37 | 297 | -0.847014327 | OR5D14,ENSBTAG00000004217,ENSBTAG00000038418 |
| 28 | 2,775,000 | 2,925,000 | 38 | 635 | -0.061765101 | OR4P4,ENSBTAG00000004217 |
| 28 | 2,850,000 | 3,000,000 | 39 | 1092 | 0.420443606 | OR4P4 |
| 28 | 2,925,000 | 3,075,000 | 40 | 1087 | 0.235964358 | TSNAX |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 28 | 3,000,000 | 3,150,000 | 41 | 1088 | 0.455494591 | TSNAX |
| 28 | 3,075,000 | 3,225,000 | 42 | 857 | 0.855661805 | TSNAX,ENSBTAG00000004624 |
| 28 | 3,150,000 | 3,300,000 | 43 | 519 | 0.146234539 | ENSBTAG00000004624,ENSBTAG000000045608 |
| 28 | 3,225,000 | 3,375,000 | 44 | 490 | -0.028182595 | EXOC8,SPRTN,ENSBTAG00000010500,ENSBTAG00000045608 |
| 28 | 3,300,000 | 3,450,000 | 45 | 556 | 0.292788607 | C1orf131,EXOC8,GNPAT,SPRTN,ENSBTAG00000010500 |
| 28 | 3,375,000 | 3,525,000 | 46 | 707 | 0.191978652 | C1orf131,GNPAT,TRIM67 |
| 28 | 3,450,000 | 3,600,000 | 47 | 963 | 0.467438655 | C1orf131,TRIM67 |
| 28 | 3,525,000 | 3,675,000 | 48 | 787 | 0.74458614 | FAM89A |
| 28 | 3,600,000 | 3,750,000 | 49 | 390 | 0.486579682 | ARV1,FAM89A,TTC13 |
| 28 | 3,675,000 | 3,825,000 | 50 | 749 | 0.980629028 | ARV1,FAM89A,TTC13 |
| 28 | 3,750,000 | 3,900,000 | 51 | 1053 | 0.725862385 | C1orf198,TTC13 |
| 28 | 3,825,000 | 3,975,000 | 52 | 988 | 0.283875435 | C1orf198,ENSBTAG00000045932 |
| 28 | 3,900,000 | 4,050,000 | 53 | 1384 | -1.062243054 | ENSBTAG00000039845,ENSBTAG00000045932 |
| 28 | 3,975,000 | 4,125,000 | 54 | 1304 | -1.656212373 | FMN2,ENSBTAG00000039845 |
| 28 | 4,050,000 | 4,200,000 | 55 | 797 | -1.680079041 | FMN2 |
| 28 | 4,125,000 | 4,275,000 | 56 | 529 | -0.786813532 | FMN2 |
| 28 | 4,200,000 | 4,350,000 | 57 | 348 | 0.239704526 | FMN2 |
| 28 | 4,275,000 | 4,425,000 | 58 | 483 | -0.06659351 | FMN2 |
| 28 | 4,350,000 | 4,500,000 | 59 | 651 | 0.024116363 | FMN2 |
| 28 | 4,425,000 | 4,575,000 | 60 | 668 | 0.698505135 | FMN2 |
| 28 | 4,500,000 | 4,650,000 | 61 | 1046 | 0.392659281 | |
| 28 | 4,575,000 | 4,725,000 | 62 | 1124 | 0.33400089 | |
| 28 | 4,650,000 | 4,800,000 | 63 | 793 | 0.47205937 | |
| 28 | 4,725,000 | 4,875,000 | 64 | 947 | 0.846847708 | |
| 28 | 4,800,000 | 4,950,000 | 65 | 1157 | 0.878342737 | |
| 28 | 4,875,000 | 5,025,000 | 66 | 987 | -0.10035322 | |
| 28 | 4,950,000 | 5,100,000 | 67 | 695 | -0.286490618 | |
| 28 | 5,025,000 | 5,175,000 | 68 | 982 | 0.675264923 | |
| 28 | 5,100,000 | 5,250,000 | 69 | 1248 | 0.835000485 | |
| 28 | 5,175,000 | 5,325,000 | 70 | 1146 | 1.015700223 | SIPA1L2 |
| 28 | 5,250,000 | 5,400,000 | 71 | 1108 | 1.000131572 | SIPA1L2 |
| 28 | 5,325,000 | 5,475,000 | 72 | 864 | 0.026261564 | SIPA1L2 |
| 28 | 5,400,000 | 5,550,000 | 73 | 841 | 0.52111549 | |
| 28 | 5,475,000 | 5,625,000 | 74 | 1220 | 0.863691745 | |
| 28 | 5,550,000 | 5,700,000 | 75 | 1011 | 0.636290256 | |
| 28 | 5,625,000 | 5,775,000 | 76 | 1020 | 0.84670398 | MAP10 |
| 28 | 5,700,000 | 5,850,000 | 77 | 1414 | 1.10489355 | MAP10 |
| 28 | 5,775,000 | 5,925,000 | 78 | 1748 | 1.32829061 | NTPCR,PCNXL2 |
| 28 | 5,850,000 | 6,000,000 | 79 | 1706 | 0.892025662 | NTPCR,PCNXL2 |
| 28 | 5,925,000 | 6,075,000 | 80 | 1072 | -0.000775511 | PCNXL2 |
| 28 | 6,000,000 | 6,150,000 | 81 | 746 | 0.473890481 | PCNXL2 |
| 28 | 6,075,000 | 6,225,000 | 82 | 708 | 1.054481473 | PCNXL2 |
| 28 | 6,150,000 | 6,300,000 | 83 | 752 | 1.399992676 | PCNXL2,ENSBTAG00000021183 |
| 28 | 6,225,000 | 6,375,000 | 84 | 1160 | 1.38995512 | PCNXL2,ENSBTAG00000021183 |
| 28 | 6,300,000 | 6,450,000 | 85 | 1328 | 1.4402828 | |
| 28 | 6,375,000 | 6,525,000 | 86 | 1107 | 1.277641672 | KCNK1 |
| 28 | 6,450,000 | 6,600,000 | 87 | 1574 | 0.759361155 | KCNK1 |
| 28 | 6,525,000 | 6,675,000 | 88 | 1667 | 0.78399049 | KCNK1 |
| 28 | 6,600,000 | 6,750,000 | 89 | 1442 | 1.135009524 | |
| 28 | 6,675,000 | 6,825,000 | 90 | 1166 | 0.945880106 | SLC35F3 |
| 28 | 6,750,000 | 6,900,000 | 91 | 1251 | 0.673149569 | SLC35F3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------|
| 28 | 6,825,000 | 6,975,000 | 92 | 1501 | 0.407471937 | SLC35F3 |
| 28 | 6,900,000 | 7,050,000 | 93 | 1299 | 0.108332523 | SLC35F3 |
| 28 | 6,975,000 | 7,125,000 | 94 | 1105 | -0.75433115 | SLC35F3 |
| 28 | 7,050,000 | 7,200,000 | 95 | 641 | -2.047484903 | SLC35F3 |
| 28 | 7,125,000 | 7,275,000 | 96 | 585 | -0.420343951 | SLC35F3,TARBP1 |
| 28 | 7,200,000 | 7,350,000 | 97 | 1033 | 0.663618327 | TARBP1 |
| 28 | 7,275,000 | 7,425,000 | 98 | 924 | 0.863027872 | TARBP1 |
| 28 | 7,350,000 | 7,500,000 | 99 | 527 | 0.800443315 | IRF2BP2 |
| 28 | 7,425,000 | 7,575,000 | 100 | 605 | -0.259553266 | IRF2BP2 |
| 28 | 7,500,000 | 7,650,000 | 101 | 700 | -1.265558878 | |
| 28 | 7,575,000 | 7,725,000 | 102 | 691 | -1.516386465 | |
| 28 | 7,650,000 | 7,800,000 | 103 | 618 | -0.889378612 | |
| 28 | 7,725,000 | 7,875,000 | 104 | 769 | -0.485811283 | |
| 28 | 7,800,000 | 7,950,000 | 105 | 767 | -0.042485653 | RBM34,TOMM20 |
| 28 | 7,875,000 | 8,025,000 | 106 | 501 | 0.535857128 | ARID4B,RBM34,TOMM20 |
| 28 | 7,950,000 | 8,100,000 | 107 | 375 | -0.226793444 | ARID4B,RBM34 |
| 28 | 8,025,000 | 8,175,000 | 108 | 386 | -0.372254089 | ARID4B,GGPS1,TBCE |
| 28 | 8,100,000 | 8,250,000 | 109 | 748 | 0.084723843 | ARID4B,B3GALNT2,GGPS1,TBCE |
| 28 | 8,175,000 | 8,325,000 | 110 | 1246 | -0.047036078 | B3GALNT2,TBCE |
| 28 | 8,250,000 | 8,400,000 | 111 | 1834 | -0.074210264 | B3GALNT2,GNG4 |
| 28 | 8,325,000 | 8,475,000 | 112 | 1652 | -0.204150512 | GNG4,LYST |
| 28 | 8,400,000 | 8,550,000 | 113 | 848 | -0.478587369 | GNG4,LYST |
| 28 | 8,475,000 | 8,625,000 | 114 | 750 | 0.925347119 | LYST |
| 28 | 8,550,000 | 8,700,000 | 115 | 917 | 0.639991439 | LYST |
| 28 | 8,625,000 | 8,775,000 | 116 | 1031 | 0.526017406 | NID1 |
| 28 | 8,700,000 | 8,850,000 | 117 | 724 | 0.481131198 | NID1 |
| 28 | 8,775,000 | 8,925,000 | 118 | 447 | -0.93833466 | GPR137B,NID1 |
| 28 | 8,850,000 | 9,000,000 | 119 | 404 | -2.415849878 | ERO1LB,GPR137B |
| 28 | 8,925,000 | 9,075,000 | 120 | 534 | -2.857434263 | ERO1LB,GPR137B |
| 28 | 9,000,000 | 9,150,000 | 121 | 1121 | -2.19231267 | EDARADD,ERO1LB |
| 28 | 9,075,000 | 9,225,000 | 122 | 1145 | -1.385885987 | EDARADD,LGALS8 |
| 28 | 9,150,000 | 9,300,000 | 123 | 787 | -0.089591443 | EDARADD,HEATR1,LGALS8 |
| 28 | 9,225,000 | 9,375,000 | 124 | 835 | -0.551504317 | HEATR1,LGALS8 |
| 28 | 9,300,000 | 9,450,000 | 125 | 663 | -0.411033112 | ACTN2 |
| 28 | 9,375,000 | 9,525,000 | 126 | 483 | -0.365073623 | ACTN2,MTR |
| 28 | 9,450,000 | 9,600,000 | 127 | 706 | 0.414185189 | ACTN2,MTR |
| 28 | 9,525,000 | 9,675,000 | 128 | 1233 | 0.469485447 | MTR |
| 28 | 9,600,000 | 9,750,000 | 129 | 1221 | -0.15219814 | |
| 28 | 9,675,000 | 9,825,000 | 130 | 658 | -0.890549487 | |
| 28 | 9,750,000 | 9,900,000 | 131 | 755 | -1.27216919 | |
| 28 | 9,825,000 | 9,975,000 | 132 | 1237 | -1.284562666 | RYR2 |
| 28 | 9,900,000 | 10,050,000 | 133 | 1221 | -0.881082747 | RYR2 |
| 28 | 9,975,000 | 10,125,000 | 134 | 1190 | -2.476684348 | RYR2 |
| 28 | 10,050,000 | 10,200,000 | 135 | 1528 | -1.075818036 | RYR2 |
| 28 | 10,125,000 | 10,275,000 | 136 | 1366 | 0.856512835 | RYR2 |
| 28 | 10,200,000 | 10,350,000 | 137 | 1254 | 0.833175235 | RYR2 |
| 28 | 10,275,000 | 10,425,000 | 138 | 1121 | 0.666106309 | RYR2 |
| 28 | 10,350,000 | 10,500,000 | 139 | 643 | 0.232046167 | RYR2 |
| 28 | 10,425,000 | 10,575,000 | 140 | 852 | 0.088326097 | RYR2 |
| 28 | 10,500,000 | 10,650,000 | 141 | 1351 | -0.580650732 | RYR2 |
| 28 | 10,575,000 | 10,725,000 | 142 | 1151 | 0.063921448 | ZP4 |
| 28 | 10,650,000 | 10,800,000 | 143 | 1088 | 0.562015116 | ZP4 |
| 28 | 10,725,000 | 10,875,000 | 144 | 1024 | -0.070812175 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 10,800,000 | 10,950,000 | 145 | 983 | 0.377165633 | |
| 28 | 10,875,000 | 11,025,000 | 146 | 1357 | 0.663609862 | |
| 28 | 10,950,000 | 11,100,000 | 147 | 1005 | 0.742020219 | |
| 28 | 11,025,000 | 11,175,000 | 148 | 648 | 0.880419589 | |
| 28 | 11,100,000 | 11,250,000 | 149 | 997 | 0.829835206 | |
| 28 | 11,175,000 | 11,325,000 | 150 | 1174 | 1.06587919 | ENSBTAG00000004702 |
| 28 | 11,250,000 | 11,400,000 | 151 | 792 | 1.063563172 | ENSBTAG00000004702 |
| 28 | 11,325,000 | 11,475,000 | 152 | 555 | 0.449314543 | |
| 28 | 11,400,000 | 11,550,000 | 153 | 824 | 1.000037979 | |
| 28 | 11,475,000 | 11,625,000 | 154 | 1289 | 0.108072983 | |
| 28 | 11,550,000 | 11,700,000 | 155 | 1285 | -0.32004793 | |
| 28 | 11,625,000 | 11,775,000 | 156 | 987 | 0.501139265 | |
| 28 | 11,700,000 | 11,850,000 | 157 | 1030 | -0.382748315 | |
| 28 | 11,775,000 | 11,925,000 | 158 | 1237 | -0.920666414 | |
| 28 | 11,850,000 | 12,000,000 | 159 | 1195 | -0.110316428 | |
| 28 | 11,925,000 | 12,075,000 | 160 | 793 | 0.250216836 | |
| 28 | 12,000,000 | 12,150,000 | 161 | 813 | -0.60687592 | |
| 28 | 12,075,000 | 12,225,000 | 162 | 1157 | -0.342845686 | |
| 28 | 12,150,000 | 12,300,000 | 163 | 1190 | 0.435383562 | |
| 28 | 12,225,000 | 12,375,000 | 164 | 881 | 0.576808039 | |
| 28 | 12,300,000 | 12,450,000 | 165 | 636 | 0.751204157 | |
| 28 | 12,375,000 | 12,525,000 | 166 | 453 | 1.103593365 | |
| 28 | 12,450,000 | 12,600,000 | 167 | 394 | 0.334776453 | |
| 28 | 12,525,000 | 12,675,000 | 168 | 729 | 0.293567752 | |
| 28 | 12,600,000 | 12,750,000 | 169 | 770 | 0.284370451 | |
| 28 | 12,675,000 | 12,825,000 | 170 | 627 | 0.712379702 | CHRM3 |
| 28 | 12,750,000 | 12,900,000 | 171 | 884 | 0.273687116 | CHRM3 |
| 28 | 12,825,000 | 12,975,000 | 172 | 1123 | 0.451985959 | ZNF33B,ENSBTAG00000018960 |
| 28 | 12,900,000 | 13,050,000 | 173 | 1161 | 0.926153461 | ZNF33B,ENSBTAG00000018960 |
| 28 | 12,975,000 | 13,125,000 | 174 | 914 | 0.723355921 | ENSBTAG00000047340 |
| 28 | 13,050,000 | 13,200,000 | 175 | 559 | 0.306546246 | ZNF25,ENSBTAG00000002955,ENSBTAG00000047340 |
| 28 | 13,125,000 | 13,275,000 | 176 | 531 | 0.21335473 | ZNF248,ZNF25,ENSBTAG00000002955 |
| 28 | 13,200,000 | 13,350,000 | 177 | 861 | 0.893104894 | BMS1,ZNF248 |
| 28 | 13,275,000 | 13,425,000 | 178 | 1310 | 0.509226592 | BMS1 |
| 28 | 13,350,000 | 13,500,000 | 179 | 1624 | -0.597527568 | |
| 28 | 13,425,000 | 13,575,000 | 180 | 1218 | -0.728292096 | RET |
| 28 | 13,500,000 | 13,650,000 | 181 | 981 | -1.370752685 | RET |
| 28 | 13,575,000 | 13,725,000 | 182 | 1023 | -1.095723239 | CSGALNACT2,RASGEF1A,RET |
| 28 | 13,650,000 | 13,800,000 | 183 | 1026 | -0.255166783 | CSGALNACT2,RASGEF1A |
| 28 | 13,725,000 | 13,875,000 | 184 | 1178 | -0.287600393 | |
| 28 | 13,800,000 | 13,950,000 | 185 | 810 | -0.070875845 | HNRNPF |
| 28 | 13,875,000 | 14,025,000 | 186 | 629 | -0.051479424 | HNRNPF |
| 28 | 13,950,000 | 14,100,000 | 187 | 565 | -0.594254525 | |
| 28 | 14,025,000 | 14,175,000 | 188 | 775 | 0.060753486 | |
| 28 | 14,100,000 | 14,250,000 | 189 | 951 | 0.685746133 | |
| 28 | 14,175,000 | 14,325,000 | 190 | 617 | 0.737191954 | |
| 28 | 14,250,000 | 14,400,000 | 191 | 568 | 0.017079466 | BICC1 |
| 28 | 14,325,000 | 14,475,000 | 192 | 605 | -0.09522836 | BICC1 |
| 28 | 14,400,000 | 14,550,000 | 193 | 603 | 0.835430107 | BICC1 |
| 28 | 14,475,000 | 14,625,000 | 194 | 653 | 0.205124665 | |
| 28 | 14,550,000 | 14,700,000 | 195 | 774 | -0.77653722 | |
| 28 | 14,625,000 | 14,775,000 | 196 | 734 | -0.420370689 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------|
| 28 | 14,700,000 | 14,850,000 | 197 | 574 | 0.350482583 | |
| 28 | 14,775,000 | 14,925,000 | 198 | 521 | 0.553534946 | PHYHIPL |
| 28 | 14,850,000 | 15,000,000 | 199 | 711 | 0.757132109 | FAM13C,PHYHIPL |
| 28 | 14,925,000 | 15,075,000 | 200 | 863 | 0.900038632 | FAM13C,PHYHIPL |
| 28 | 15,000,000 | 15,150,000 | 201 | 778 | 0.485935394 | FAM13C |
| 28 | 15,075,000 | 15,225,000 | 202 | 617 | 0.153910852 | FAM13C |
| 28 | 15,150,000 | 15,300,000 | 203 | 566 | 0.41176227 | |
| 28 | 15,225,000 | 15,375,000 | 204 | 476 | 0.580239159 | |
| 28 | 15,300,000 | 15,450,000 | 205 | 240 | 0.338551935 | SLC16A9 |
| 28 | 15,375,000 | 15,525,000 | 206 | 502 | -0.123232607 | SLC16A9 |
| 28 | 15,450,000 | 15,600,000 | 207 | 728 | 0.200272393 | CCDC6,SLC16A9 |
| 28 | 15,525,000 | 15,675,000 | 208 | 728 | 0.53986588 | CCDC6 |
| 28 | 15,600,000 | 15,750,000 | 209 | 798 | 0.511056892 | CCDC6 |
| 28 | 15,675,000 | 15,825,000 | 210 | 796 | 0.619835239 | ANK3 |
| 28 | 15,750,000 | 15,900,000 | 211 | 612 | 0.608147744 | ANK3 |
| 28 | 15,825,000 | 15,975,000 | 212 | 568 | 0.052412567 | ANK3 |
| 28 | 15,900,000 | 16,050,000 | 213 | 835 | 0.711424382 | ANK3 |
| 28 | 15,975,000 | 16,125,000 | 214 | 939 | 0.827800787 | ANK3 |
| 28 | 16,050,000 | 16,200,000 | 215 | 895 | 0.419183525 | ANK3 |
| 28 | 16,125,000 | 16,275,000 | 216 | 771 | 0.746861777 | |
| 28 | 16,200,000 | 16,350,000 | 217 | 626 | 0.070391154 | |
| 28 | 16,275,000 | 16,425,000 | 218 | 784 | -0.249763552 | |
| 28 | 16,350,000 | 16,500,000 | 219 | 993 | 0.817112025 | |
| 28 | 16,425,000 | 16,575,000 | 220 | 1215 | 0.852649408 | |
| 28 | 16,500,000 | 16,650,000 | 221 | 1226 | 0.204369286 | CDK1 |
| 28 | 16,575,000 | 16,725,000 | 222 | 888 | -0.589809439 | CDK1 |
| 28 | 16,650,000 | 16,800,000 | 223 | 814 | -1.41686389 | RHOBTB1 |
| 28 | 16,725,000 | 16,875,000 | 224 | 849 | -1.892794392 | RHOBTB1 |
| 28 | 16,800,000 | 16,950,000 | 225 | 1189 | 0.064334578 | RHOBTB1 |
| 28 | 16,875,000 | 17,025,000 | 226 | 1089 | 0.231658675 | |
| 28 | 16,950,000 | 17,100,000 | 227 | 609 | -0.369017998 | |
| 28 | 17,025,000 | 17,175,000 | 228 | 686 | 0.52495283 | |
| 28 | 17,100,000 | 17,250,000 | 229 | 921 | 0.87432601 | |
| 28 | 17,175,000 | 17,325,000 | 230 | 994 | 0.797571033 | |
| 28 | 17,250,000 | 17,400,000 | 231 | 1026 | 0.522703566 | TMEM26 |
| 28 | 17,325,000 | 17,475,000 | 232 | 783 | 0.832353792 | TMEM26 |
| 28 | 17,400,000 | 17,550,000 | 233 | 581 | 0.575241134 | TMEM26 |
| 28 | 17,475,000 | 17,625,000 | 234 | 695 | 0.22977264 | |
| 28 | 17,550,000 | 17,700,000 | 235 | 692 | 0.372153115 | C10ORF107 |
| 28 | 17,625,000 | 17,775,000 | 236 | 627 | 0.493613904 | C10ORF107 |
| 28 | 17,700,000 | 17,850,000 | 237 | 458 | 0.437371636 | C10ORF107 |
| 28 | 17,775,000 | 17,925,000 | 238 | 712 | 1.126718868 | |
| 28 | 17,850,000 | 18,000,000 | 239 | 1055 | 1.277364774 | |
| 28 | 17,925,000 | 18,075,000 | 240 | 904 | 0.895287185 | ARID5B |
| 28 | 18,000,000 | 18,150,000 | 241 | 706 | -0.210493229 | ARID5B |
| 28 | 18,075,000 | 18,225,000 | 242 | 534 | -1.061612936 | ARID5B |
| 28 | 18,150,000 | 18,300,000 | 243 | 384 | -0.554652249 | ARID5B |
| 28 | 18,225,000 | 18,375,000 | 244 | 366 | 0.2638076 | RTKN2 |
| 28 | 18,300,000 | 18,450,000 | 245 | 366 | 0.578814463 | RTKN2 |
| 28 | 18,375,000 | 18,525,000 | 246 | 494 | 0.519170231 | RTKN2 |
| 28 | 18,450,000 | 18,600,000 | 247 | 603 | -0.229478093 | RTKN2,ZNF365 |
| 28 | 18,525,000 | 18,675,000 | 248 | 532 | -0.777813672 | ZNF365 |
| 28 | 18,600,000 | 18,750,000 | 249 | 450 | 0.0572502 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------|
| 28 | 18,675,000 | 18,825,000 | 250 | 329 | 0.711381646 | |
| 28 | 18,750,000 | 18,900,000 | 251 | 240 | 0.503430889 | |
| 28 | 18,825,000 | 18,975,000 | 252 | 373 | 1.018642265 | |
| 28 | 18,900,000 | 19,050,000 | 253 | 562 | 0.727401762 | ADO,EGR2 |
| 28 | 18,975,000 | 19,125,000 | 254 | 630 | 0.261829821 | ADO,EGR2 |
| 28 | 19,050,000 | 19,200,000 | 255 | 553 | 0.437465659 | |
| 28 | 19,125,000 | 19,275,000 | 256 | 606 | 0.357595543 | |
| 28 | 19,200,000 | 19,350,000 | 257 | 791 | -0.52595348 | |
| 28 | 19,275,000 | 19,425,000 | 258 | 599 | -0.694076754 | JMJD1C,NRBF2 |
| 28 | 19,350,000 | 19,500,000 | 259 | 323 | 0.342172253 | JMJD1C,NRBF2 |
| 28 | 19,425,000 | 19,575,000 | 260 | 646 | 0.857703849 | JMJD1C |
| 28 | 19,500,000 | 19,650,000 | 261 | 881 | 0.513731443 | JMJD1C |
| 28 | 19,575,000 | 19,725,000 | 262 | 804 | 0.101980884 | JMJD1C,REEP3 |
| 28 | 19,650,000 | 19,800,000 | 263 | 654 | 0.259569904 | JMJD1C,REEP3 |
| 28 | 19,725,000 | 19,875,000 | 264 | 671 | 0.635675916 | REEP3 |
| 28 | 19,800,000 | 19,950,000 | 265 | 758 | -0.06844253 | REEP3 |
| 28 | 19,875,000 | 20,025,000 | 266 | 568 | -0.603585153 | |
| 28 | 19,950,000 | 20,100,000 | 267 | 524 | 0.111894581 | |
| 28 | 20,025,000 | 20,175,000 | 268 | 961 | 0.39717185 | |
| 28 | 20,100,000 | 20,250,000 | 269 | 987 | 0.241289859 | |
| 28 | 20,175,000 | 20,325,000 | 270 | 762 | 0.291698313 | |
| 28 | 20,250,000 | 20,400,000 | 271 | 943 | 0.412217618 | |
| 28 | 20,325,000 | 20,475,000 | 272 | 925 | 0.559612879 | |
| 28 | 20,400,000 | 20,550,000 | 273 | 1477 | 0.929001182 | |
| 28 | 20,475,000 | 20,625,000 | 274 | 1881 | 0.553616634 | |
| 28 | 20,550,000 | 20,700,000 | 275 | 1460 | 0.085806781 | |
| 28 | 20,625,000 | 20,775,000 | 276 | 1275 | -0.607511958 | |
| 28 | 20,700,000 | 20,850,000 | 277 | 1584 | -1.015627473 | |
| 28 | 20,775,000 | 20,925,000 | 278 | 1694 | -0.59836105 | |
| 28 | 20,850,000 | 21,000,000 | 279 | 1363 | -0.439810046 | |
| 28 | 20,925,000 | 21,075,000 | 280 | 1244 | -0.04608842 | |
| 28 | 21,000,000 | 21,150,000 | 281 | 1479 | 0.718302867 | |
| 28 | 21,075,000 | 21,225,000 | 282 | 1698 | 0.97215037 | |
| 28 | 21,150,000 | 21,300,000 | 283 | 1654 | 0.664484007 | |
| 28 | 21,225,000 | 21,375,000 | 284 | 1855 | 0.326110851 | |
| 28 | 21,300,000 | 21,450,000 | 285 | 2139 | 0.868886372 | |
| 28 | 21,375,000 | 21,525,000 | 286 | 1611 | 1.213249852 | |
| 28 | 21,450,000 | 21,600,000 | 287 | 1231 | 0.666164585 | |
| 28 | 21,525,000 | 21,675,000 | 288 | 1791 | 0.809002728 | |
| 28 | 21,600,000 | 21,750,000 | 289 | 1970 | 0.546883322 | |
| 28 | 21,675,000 | 21,825,000 | 290 | 1992 | 0.128345191 | |
| 28 | 21,750,000 | 21,900,000 | 291 | 2030 | 0.070536196 | |
| 28 | 21,825,000 | 21,975,000 | 292 | 1383 | 0.045640321 | |
| 28 | 21,900,000 | 22,050,000 | 293 | 1408 | 1.034128966 | |
| 28 | 21,975,000 | 22,125,000 | 294 | 1694 | 0.980810982 | |
| 28 | 22,050,000 | 22,200,000 | 295 | 1639 | 1.139376958 | |
| 28 | 22,125,000 | 22,275,000 | 296 | 1780 | 0.931378483 | |
| 28 | 22,200,000 | 22,350,000 | 297 | 1783 | -0.127421479 | |
| 28 | 22,275,000 | 22,425,000 | 298 | 1941 | 0.07859855 | CTNNA3 |
| 28 | 22,350,000 | 22,500,000 | 299 | 1868 | 0.401994206 | CTNNA3 |
| 28 | 22,425,000 | 22,575,000 | 300 | 1545 | 0.213621274 | CTNNA3 |
| 28 | 22,500,000 | 22,650,000 | 301 | 1578 | 0.555343364 | CTNNA3 |
| 28 | 22,575,000 | 22,725,000 | 302 | 1340 | 0.899968223 | CTNNA3 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 22,650,000 | 22,800,000 | 303 | 1097 | 0.670825122 | CTNNA3 |
| 28 | 22,725,000 | 22,875,000 | 304 | 1167 | 0.804347721 | CTNNA3 |
| 28 | 22,800,000 | 22,950,000 | 305 | 1435 | 1.086357489 | CTNNA3 |
| 28 | 22,875,000 | 23,025,000 | 306 | 1459 | 0.934367721 | CTNNA3 |
| 28 | 22,950,000 | 23,100,000 | 307 | 1441 | 0.636384726 | CTNNA3 |
| 28 | 23,025,000 | 23,175,000 | 308 | 1617 | 0.756334632 | CTNNA3 |
| 28 | 23,100,000 | 23,250,000 | 309 | 1461 | 0.875697157 | CTNNA3 |
| 28 | 23,175,000 | 23,325,000 | 310 | 1335 | 0.636218773 | CTNNA3 |
| 28 | 23,250,000 | 23,400,000 | 311 | 1441 | 0.759273345 | CTNNA3 |
| 28 | 23,325,000 | 23,475,000 | 312 | 1464 | 0.559070764 | CTNNA3 |
| 28 | 23,400,000 | 23,550,000 | 313 | 1258 | 0.52710542 | CTNNA3,LRRTM3 |
| 28 | 23,475,000 | 23,625,000 | 314 | 1219 | 0.987846854 | CTNNA3,LRRTM3 |
| 28 | 23,550,000 | 23,700,000 | 315 | 1337 | 0.472526123 | CTNNA3,LRRTM3 |
| 28 | 23,625,000 | 23,775,000 | 316 | 1352 | 0.682544338 | CTNNA3,LRRTM3,ENSBTAG00000045493 |
| 28 | 23,700,000 | 23,850,000 | 317 | 1132 | 0.407397037 | CTNNA3,LRRTM3,ENSBTAG00000045493 |
| 28 | 23,775,000 | 23,925,000 | 318 | 668 | -0.485730613 | CTNNA3 |
| 28 | 23,850,000 | 24,000,000 | 319 | 402 | 0.312505107 | CTNNA3 |
| 28 | 23,925,000 | 24,075,000 | 320 | 452 | -0.061747552 | CTNNA3 |
| 28 | 24,000,000 | 24,150,000 | 321 | 441 | -0.015255415 | CTNNA3 |
| 28 | 24,075,000 | 24,225,000 | 322 | 727 | 1.256975017 | CTNNA3 |
| 28 | 24,150,000 | 24,300,000 | 323 | 978 | 1.049321718 | CTNNA3 |
| 28 | 24,225,000 | 24,375,000 | 324 | 1066 | 0.719031532 | CTNNA3 |
| 28 | 24,300,000 | 24,450,000 | 325 | 991 | 0.782565513 | DNAJC12 |
| 28 | 24,375,000 | 24,525,000 | 326 | 900 | 0.97708337 | DNAJC12 |
| 28 | 24,450,000 | 24,600,000 | 327 | 830 | 1.001460804 | HERC4,SIRT1 |
| 28 | 24,525,000 | 24,675,000 | 328 | 513 | 0.801904473 | HERC4,SIRT1 |
| 28 | 24,600,000 | 24,750,000 | 329 | 358 | 0.954366611 | HERC4,MYPN |
| 28 | 24,675,000 | 24,825,000 | 330 | 300 | 0.803408964 | HERC4,MYPN |
| 28 | 24,750,000 | 24,900,000 | 331 | 316 | 0.038612208 | ATOH7,MYPN,PBLD |
| 28 | 24,825,000 | 24,975,000 | 332 | 356 | -0.450395895 | ATOH7,DNA2,MYPN,PBLD,RUFY2,ENSBTAG00000014316 |
| 28 | 24,900,000 | 25,050,000 | 333 | 362 | 0.169687755 | DNA2,RUFY2,SLC25A16,ENSBTAG00000014316 |
| 28 | 24,975,000 | 25,125,000 | 334 | 440 | 0.635004441 | DNA2,SLC25A16,TET1 |
| 28 | 25,050,000 | 25,200,000 | 335 | 412 | 0.829144675 | TET1 |
| 28 | 25,125,000 | 25,275,000 | 336 | 333 | 1.042009497 | CCAR1,STOX1,TET1,ENSBTAG00000033457 |
| 28 | 25,200,000 | 25,350,000 | 337 | 428 | 1.113685049 | CCAR1,DDX50,STOX1,ENSBTAG00000033457 |
| 28 | 25,275,000 | 25,425,000 | 338 | 830 | 0.990648856 | DDX21,DDX50,KBP,STOX1 |
| 28 | 25,350,000 | 25,500,000 | 339 | 953 | 0.580197504 | DDX21,DDX50,KBP |
| 28 | 25,425,000 | 25,575,000 | 340 | 1354 | -0.851340541 | KBP |
| 28 | 25,500,000 | 25,650,000 | 341 | 1647 | -0.623107794 | SRGN |
| 28 | 25,575,000 | 25,725,000 | 342 | 917 | 0.374191694 | SRGN,SUPV3L1,VPS26A |
| 28 | 25,650,000 | 25,800,000 | 343 | 925 | -2.5524728 | HKDC1,SUPV3L1,VPS26A |
| 28 | 25,725,000 | 25,875,000 | 344 | 1143 | -2.123612148 | HK1,HKDC1,SUPV3L1 |
| 28 | 25,800,000 | 25,950,000 | 345 | 1136 | -0.115663707 | HK1,TACR2 |
| 28 | 25,875,000 | 26,025,000 | 346 | 1176 | 0.416464966 | HK1,TACR2,TSPAN15 |
| 28 | 25,950,000 | 26,100,000 | 347 | 1132 | 0.194042471 | NEUROG3,TSPAN15 |
| 28 | 26,025,000 | 26,175,000 | 348 | 1335 | -1.068843228 | C28H10ORF35,NEUROG3 |
| 28 | 26,100,000 | 26,250,000 | 349 | 1168 | -0.489111117 | C28H10ORF35 |
| 28 | 26,175,000 | 26,325,000 | 350 | 959 | -0.708185686 | COL13A1 |
| 28 | 26,250,000 | 26,400,000 | 351 | 1101 | -0.936185029 | COL13A1 |
| 28 | 26,325,000 | 26,475,000 | 352 | 1138 | 0.189331547 | COL13A1,H2AFY2 |
| 28 | 26,400,000 | 26,550,000 | 353 | 926 | -0.142436654 | AIFM2,COL13A1,H2AFY2,SAR1A,TYSND1 |
| 28 | 26,475,000 | 26,625,000 | 354 | 884 | 0.181647144 | AIFM2,H2AFY2,PPA1,SAR1A,TYSND1 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 26,550,000 | 26,700,000 | 355 | 1028 | 0.87866269 | LRRC20,NPFFR1,PPA1,SAR1A |
| 28 | 26,625,000 | 26,775,000 | 356 | 801 | -0.006754016 | EIF4EBP2,LRRC20,NPFFR1 |
| 28 | 26,700,000 | 26,850,000 | 357 | 638 | -0.318335983 | EIF4EBP2,LRRC20,NODAL |
| 28 | 26,775,000 | 26,925,000 | 358 | 928 | 0.59496463 | EIF4EBP2,KIAA1274,NODAL,ENSBTAG00000047227 |
| 28 | 26,850,000 | 27,000,000 | 359 | 870 | 0.605318512 | ADAMTS14,KIAA1274,PRF1,ENSBTAG00000047227 |
| 28 | 26,925,000 | 27,075,000 | 360 | 842 | -0.233261082 | ADAMTS14,PRF1 |
| 28 | 27,000,000 | 27,150,000 | 361 | 939 | -0.012152777 | ADAMTS14,SGPL1,TBATA |
| 28 | 27,075,000 | 27,225,000 | 362 | 614 | 0.667945287 | ADAMTS14,SGPL1,TBATA |
| 28 | 27,150,000 | 27,300,000 | 363 | 637 | -0.006263028 | PCBD1,SGPL1 |
| 28 | 27,225,000 | 27,375,000 | 364 | 917 | 0.327168524 | PCBD1 |
| 28 | 27,300,000 | 27,450,000 | 365 | 935 | 0.844358508 | |
| 28 | 27,375,000 | 27,525,000 | 366 | 751 | 0.678648245 | UNC5B |
| 28 | 27,450,000 | 27,600,000 | 367 | 795 | 0.504278818 | UNC5B |
| 28 | 27,525,000 | 27,675,000 | 368 | 935 | 0.116322508 | UNC5B,ENSBTAG00000047119 |
| 28 | 27,600,000 | 27,750,000 | 369 | 1030 | -0.069676171 | CDH23,SLC29A3,ENSBTAG00000047119 |
| 28 | 27,675,000 | 27,825,000 | 370 | 1171 | -0.762295097 | CDH23,SLC29A3 |
| 28 | 27,750,000 | 27,900,000 | 371 | 1068 | -1.418765995 | CDH23 |
| 28 | 27,825,000 | 27,975,000 | 372 | 1086 | 0.252294305 | CDH23 |
| 28 | 27,900,000 | 28,050,000 | 373 | 926 | -0.161874431 | C10orf105,CDH23 |
| 28 | 27,975,000 | 28,125,000 | 374 | 1044 | -0.248375014 | C10orf105,CDH23,MGC151567,PSAP |
| 28 | 28,050,000 | 28,200,000 | 375 | 1325 | 0.678346306 | CDH23,MGC151567,PSAP |
| 28 | 28,125,000 | 28,275,000 | 376 | 1159 | 0.398949339 | CHST3,PSAP |
| 28 | 28,200,000 | 28,350,000 | 377 | 1147 | -1.189630881 | ASCC1,CHST3,SPOCK2 |
| 28 | 28,275,000 | 28,425,000 | 378 | 1284 | -2.563725195 | ASCC1,SPOCK2 |
| 28 | 28,350,000 | 28,500,000 | 379 | 1201 | -1.729592239 | ANAPC16,ASCC1,DDIT4 |
| 28 | 28,425,000 | 28,575,000 | 380 | 1029 | -0.714832433 | ANAPC16,ASCC1,DDIT4,DNAJB12,MICU1 |
| 28 | 28,500,000 | 28,650,000 | 381 | 1278 | -0.49062358 | DNAJB12,MICU1 |
| 28 | 28,575,000 | 28,725,000 | 382 | 1507 | -0.527852061 | MICU1 |
| 28 | 28,650,000 | 28,800,000 | 383 | 1457 | -0.342980007 | MICU1 |
| 28 | 28,725,000 | 28,875,000 | 384 | 1793 | -1.002294128 | MCU,MICU1 |
| 28 | 28,800,000 | 28,950,000 | 385 | 2010 | -1.024776371 | MCU |
| 28 | 28,875,000 | 29,025,000 | 386 | 1575 | -0.372826813 | MCU |
| 28 | 28,950,000 | 29,100,000 | 387 | 1200 | -0.36598447 | MCU,ENSBTAG00000009348,ENSBTAG00000047323 |
| 28 | 29,025,000 | 29,175,000 | 388 | 1408 | 0.323888573 | MCU,PLA2G12B,ENSBTAG00000009348,ENSBTAG000047323 |
| 28 | 29,100,000 | 29,250,000 | 389 | 1972 | 0.900731177 | P4HA1,PLA2G12B,ENSBTAG00000009348 |
| 28 | 29,175,000 | 29,325,000 | 390 | 1559 | 1.145732326 | P4HA1 |
| 28 | 29,250,000 | 29,400,000 | 391 | 986 | 1.067757057 | ECD,FAM149B1,NUDT13,P4HA1 |
| 28 | 29,325,000 | 29,475,000 | 392 | 1005 | 0.21554631 | DNAJC9,ECD,FAM149B1,MRPS16,NUDT13,P4HA1 |
| 28 | 29,400,000 | 29,550,000 | 393 | 1155 | 0.100250623 | DNAJC9,FAM149B1,MRPS16 |
| 28 | 29,475,000 | 29,625,000 | 394 | 1061 | 0.507873677 | ANXA7,MSS51,PPP3CB,ENSBTAG00000019525 |
| 28 | 29,550,000 | 29,700,000 | 395 | 715 | 0.891571032 | ANXA7,MSS51,PPP3CB,USP54,ENSBTAG00000019525 |
| 28 | 29,625,000 | 29,775,000 | 396 | 783 | 0.680161195 | USP54,ENSBTAG00000019525 |
| 28 | 29,700,000 | 29,850,000 | 397 | 750 | 0.781750392 | FUT11,MYOZ1,SEC24C,SYNPO2L,USP54 |
| 28 | 29,775,000 | 29,925,000 | 398 | 714 | 0.23181699 | CAMK2G,CHCHD1,FUT11,MYOZ1,NDST2,SEC24C,SYNPO2L,ZSWIM8 |
| 28 | 29,850,000 | 30,000,000 | 399 | 912 | -0.191068629 | CAMK2G,CHCHD1,NDST2,PLAU,ZSWIM8 |
| 28 | 29,925,000 | 30,075,000 | 400 | 1061 | 0.43860591 | CAMK2G,PLAU,VCL,ENSBTAG00000046355,ENSBTAG00000048036 |
| 28 | 30,000,000 | 30,150,000 | 401 | 1045 | 1.022106964 | VCL,ENSBTAG00000046355,ENSBTAG00000048036 |
| 28 | 30,075,000 | 30,225,000 | 402 | 891 | 0.222201009 | AP3M1,VCL,ENSBTAG00000011072 |
| 28 | 30,150,000 | 30,300,000 | 403 | 1061 | 0.104610644 | AP3M1,VCL,ENSBTAG00000011072 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 28 | 30,225,000 | 30,375,000 | 404 | 1032 | 0.851216534 | ENSBTAG00000011072 |
| 28 | 30,300,000 | 30,450,000 | 405 | 1239 | 0.566487552 | ENSBTAG00000011072 |
| 28 | 30,375,000 | 30,525,000 | 406 | 1522 | 0.256719912 | ENSBTAG00000011072 |
| 28 | 30,450,000 | 30,600,000 | 407 | 937 | 0.275197171 | ENSBTAG00000011072 |
| 28 | 30,525,000 | 30,675,000 | 408 | 760 | 0.694473108 | ENSBTAG00000011072 |
| 28 | 30,600,000 | 30,750,000 | 409 | 751 | 0.78969083 | ENSBTAG00000011072 |
| 28 | 30,675,000 | 30,825,000 | 410 | 632 | 0.484237315 | KAT6B,ENSBTAG00000011072 |
| 28 | 30,750,000 | 30,900,000 | 411 | 676 | 0.555402588 | KAT6B |
| 28 | 30,825,000 | 30,975,000 | 412 | 698 | 0.641199872 | KAT6B |
| 28 | 30,900,000 | 31,050,000 | 413 | 879 | 0.23754398 | DUPD1,KAT6B,ENSBTAG00000023039 |
| 28 | 30,975,000 | 31,125,000 | 414 | 850 | 0.045403115 | DUPD1,KAT6B,SAMD8,ENSBTAG00000023039 |
| 28 | 31,050,000 | 31,200,000 | 415 | 729 | 0.250246063 | COMTD1,SAMD8,VDAC2,ENSBTAG00000023039 |
| 28 | 31,125,000 | 31,275,000 | 416 | 787 | 0.419478918 | COMTD1,VDAC2,ENSBTAG00000013585 |
| 28 | 31,200,000 | 31,350,000 | 417 | 779 | 0.4622956 | ZNF503,ENSBTAG00000013585 |
| 28 | 31,275,000 | 31,425,000 | 418 | 763 | 0.409409918 | ZNF503 |
| 28 | 31,350,000 | 31,500,000 | 419 | 845 | 0.293061192 | |
| 28 | 31,425,000 | 31,575,000 | 420 | 866 | 0.571152051 | |
| 28 | 31,500,000 | 31,650,000 | 421 | 839 | 0.93490491 | |
| 28 | 31,575,000 | 31,725,000 | 422 | 1127 | 0.379352749 | |
| 28 | 31,650,000 | 31,800,000 | 423 | 1205 | 0.386339577 | |
| 28 | 31,725,000 | 31,875,000 | 424 | 955 | 0.741686518 | |
| 28 | 31,800,000 | 31,950,000 | 425 | 883 | 0.795664823 | |
| 28 | 31,875,000 | 32,025,000 | 426 | 1013 | 0.748561611 | |
| 28 | 31,950,000 | 32,100,000 | 427 | 1292 | 0.820613297 | |
| 28 | 32,025,000 | 32,175,000 | 428 | 1482 | 0.919722914 | |
| 28 | 32,100,000 | 32,250,000 | 429 | 1484 | 0.747931615 | |
| 28 | 32,175,000 | 32,325,000 | 430 | 1441 | 0.445858373 | |
| 28 | 32,250,000 | 32,400,000 | 431 | 1143 | -0.160868665 | |
| 28 | 32,325,000 | 32,475,000 | 432 | 772 | -0.736736553 | |
| 28 | 32,400,000 | 32,550,000 | 433 | 576 | -0.481595026 | |
| 28 | 32,475,000 | 32,625,000 | 434 | 645 | 0.044473288 | |
| 28 | 32,550,000 | 32,700,000 | 435 | 908 | 0.262165791 | |
| 28 | 32,625,000 | 32,775,000 | 436 | 1264 | 0.140983964 | |
| 28 | 32,700,000 | 32,850,000 | 437 | 1228 | -0.014666684 | KCNMA1 |
| 28 | 32,775,000 | 32,925,000 | 438 | 939 | 0.103336768 | KCNMA1,ENSBTAG00000047535 |
| 28 | 32,850,000 | 33,000,000 | 439 | 775 | 0.371213386 | KCNMA1,ENSBTAG00000047535 |
| 28 | 32,925,000 | 33,075,000 | 440 | 532 | 0.10815079 | KCNMA1 |
| 28 | 33,000,000 | 33,150,000 | 441 | 568 | -0.003647457 | KCNMA1 |
| 28 | 33,075,000 | 33,225,000 | 442 | 552 | 0.38842375 | KCNMA1 |
| 28 | 33,150,000 | 33,300,000 | 443 | 549 | 0.684281145 | KCNMA1 |
| 28 | 33,225,000 | 33,375,000 | 444 | 688 | 0.102158288 | KCNMA1 |
| 28 | 33,300,000 | 33,450,000 | 445 | 1059 | -0.316911199 | KCNMA1 |
| 28 | 33,375,000 | 33,525,000 | 446 | 1541 | -0.114751581 | KCNMA1 |
| 28 | 33,450,000 | 33,600,000 | 447 | 1300 | 0.245035172 | KCNMA1 |
| 28 | 33,525,000 | 33,675,000 | 448 | 612 | 0.07940685 | KCNMA1 |
| 28 | 33,600,000 | 33,750,000 | 449 | 239 | -1.497056087 | DLG5 |
| 28 | 33,675,000 | 33,825,000 | 450 | 416 | 0.098040852 | DLG5 |
| 28 | 33,750,000 | 33,900,000 | 451 | 652 | -0.08774688 | DLG5,POLR3A |
| 28 | 33,825,000 | 33,975,000 | 452 | 786 | 0.180150573 | DLG5,POLR3A,RPS24 |
| 28 | 33,900,000 | 34,050,000 | 453 | 1257 | 0.88503575 | POLR3A,RPS24 |
| 28 | 33,975,000 | 34,125,000 | 454 | 1499 | 0.131614031 | |
| 28 | 34,050,000 | 34,200,000 | 455 | 1456 | -0.104359179 | |
| 28 | 34,125,000 | 34,275,000 | 456 | 1310 | -0.174927037 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 34,200,000 | 34,350,000 | 457 | 1221 | 0.301162674 | |
| 28 | 34,275,000 | 34,425,000 | 458 | 1269 | 0.744224516 | |
| 28 | 34,350,000 | 34,500,000 | 459 | 1509 | 0.808875331 | |
| 28 | 34,425,000 | 34,575,000 | 460 | 1469 | 0.467026156 | |
| 28 | 34,500,000 | 34,650,000 | 461 | 938 | 0.581100655 | |
| 28 | 34,575,000 | 34,725,000 | 462 | 642 | 0.771246798 | |
| 28 | 34,650,000 | 34,800,000 | 463 | 622 | -0.378201553 | |
| 28 | 34,725,000 | 34,875,000 | 464 | 751 | -0.557842608 | |
| 28 | 34,800,000 | 34,950,000 | 465 | 655 | -0.464187683 | |
| 28 | 34,875,000 | 35,025,000 | 466 | 578 | 0.568628745 | |
| 28 | 34,950,000 | 35,100,000 | 467 | 719 | 0.353760985 | ZMIZ1 |
| 28 | 35,025,000 | 35,175,000 | 468 | 855 | 0.158536916 | PIIF,ZMIZ1 |
| 28 | 35,100,000 | 35,250,000 | 469 | 1093 | 0.510883788 | PIIF,ZCCHC24,ZMIZ1 |
| 28 | 35,175,000 | 35,325,000 | 470 | 1068 | 1.028992573 | ANXA11,ZCCHC24 |
| 28 | 35,250,000 | 35,400,000 | 471 | 776 | 1.116302919 | ANXA11,PLAC9,ZCCHC24 |
| 28 | 35,325,000 | 35,475,000 | 472 | 934 | -0.386470207 | ANXA11,PLAC9,TMEM254,ENSBTAG00000045788 |
| 28 | 35,400,000 | 35,550,000 | 473 | 1309 | -0.453983491 | TMEM254,ENSBTAG00000045788 |
| 28 | 35,475,000 | 35,625,000 | 474 | 1052 | 0.593315933 | CGN1 |
| 28 | 35,550,000 | 35,700,000 | 475 | 751 | 0.425318224 | CGN1,CL46 |
| 28 | 35,625,000 | 35,775,000 | 476 | 745 | 0.066428808 | CL43,CL46 |
| 28 | 35,700,000 | 35,850,000 | 477 | 954 | 0.702714085 | CL43,CL46,SFTPA1,SFTPD |
| 28 | 35,775,000 | 35,925,000 | 478 | 1281 | 0.580314218 | DYDC1,MAT1A,SFTPA1,SFTPD |
| 28 | 35,850,000 | 36,000,000 | 479 | 1284 | 0.231176508 | DYDC1,DYDC2,MAT1A,SFTPA1 |
| 28 | 35,925,000 | 36,075,000 | 480 | 1171 | 0.27675186 | DYDC1,DYDC2,FAM213A |
| 28 | 36,000,000 | 36,150,000 | 481 | 776 | -0.353030192 | FAM213A,SH2D4B,TSPAN14 |
| 28 | 36,075,000 | 36,225,000 | 482 | 860 | -1.318324168 | SH2D4B,TSPAN14 |
| 28 | 36,150,000 | 36,300,000 | 483 | 1091 | -1.897457363 | SH2D4B |
| 28 | 36,225,000 | 36,375,000 | 484 | 1353 | -1.283847472 | |
| 28 | 36,300,000 | 36,450,000 | 485 | 1419 | -0.422707432 | |
| 28 | 36,375,000 | 36,525,000 | 486 | 1115 | 0.175783232 | |
| 28 | 36,450,000 | 36,600,000 | 487 | 1312 | 0.117374914 | |
| 28 | 36,525,000 | 36,675,000 | 488 | 1310 | -0.039858276 | |
| 28 | 36,600,000 | 36,750,000 | 489 | 1302 | 0.577602713 | |
| 28 | 36,675,000 | 36,825,000 | 490 | 969 | 0.729560789 | |
| 28 | 36,750,000 | 36,900,000 | 491 | 709 | -0.502923817 | |
| 28 | 36,825,000 | 36,975,000 | 492 | 844 | -0.287633348 | |
| 28 | 36,900,000 | 37,050,000 | 493 | 941 | 0.214929155 | |
| 28 | 36,975,000 | 37,125,000 | 494 | 913 | -0.078015429 | |
| 28 | 37,050,000 | 37,200,000 | 495 | 836 | -4.031445123 | |
| 28 | 37,125,000 | 37,275,000 | 496 | 762 | -4.09991327 | |
| 28 | 37,200,000 | 37,350,000 | 497 | 722 | 0.112284756 | |
| 28 | 37,275,000 | 37,425,000 | 498 | 928 | 0.342283977 | |
| 28 | 37,350,000 | 37,500,000 | 499 | 867 | -0.094849606 | |
| 28 | 37,425,000 | 37,575,000 | 500 | 861 | -0.237268157 | |
| 28 | 37,500,000 | 37,650,000 | 501 | 1026 | -0.300599455 | |
| 28 | 37,575,000 | 37,725,000 | 502 | 1278 | -1.021403016 | |
| 28 | 37,650,000 | 37,800,000 | 503 | 1539 | -0.871025309 | |
| 28 | 37,725,000 | 37,875,000 | 504 | 1605 | -0.171731941 | |
| 28 | 37,800,000 | 37,950,000 | 505 | 1435 | 0.340757063 | |
| 28 | 37,875,000 | 38,025,000 | 506 | 1545 | -0.098030295 | |
| 28 | 37,950,000 | 38,100,000 | 507 | 1721 | -0.397288467 | |
| 28 | 38,025,000 | 38,175,000 | 508 | 1847 | -0.472533374 | |
| 28 | 38,100,000 | 38,250,000 | 509 | 1833 | -0.451785141 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 28 | 38,175,000 | 38,325,000 | 510 | 1251 | -0.702206258 | NRG3 |
| 28 | 38,250,000 | 38,400,000 | 511 | 959 | -1.577984857 | NRG3 |
| 28 | 38,325,000 | 38,475,000 | 512 | 750 | -1.131977292 | NRG3 |
| 28 | 38,400,000 | 38,550,000 | 513 | 746 | 0.572157667 | |
| 28 | 38,475,000 | 38,625,000 | 514 | 960 | 1.176786996 | |
| 28 | 38,550,000 | 38,700,000 | 515 | 1219 | 1.195879548 | |
| 28 | 38,625,000 | 38,775,000 | 516 | 1499 | 1.325940005 | |
| 28 | 38,700,000 | 38,850,000 | 517 | 1397 | 0.707834447 | |
| 28 | 38,775,000 | 38,925,000 | 518 | 1428 | -0.547508487 | |
| 28 | 38,850,000 | 39,000,000 | 519 | 1397 | 0.077857191 | |
| 28 | 38,925,000 | 39,075,000 | 520 | 1459 | 0.818918667 | |
| 28 | 39,000,000 | 39,150,000 | 521 | 1231 | 0.515865725 | |
| 28 | 39,075,000 | 39,225,000 | 522 | 831 | -1.529936083 | |
| 28 | 39,150,000 | 39,300,000 | 523 | 783 | -1.748197187 | |
| 28 | 39,225,000 | 39,375,000 | 524 | 404 | -0.960926557 | |
| 28 | 39,300,000 | 39,450,000 | 525 | 770 | 0.139810353 | GHITM |
| 28 | 39,375,000 | 39,525,000 | 526 | 1318 | 0.450591874 | CDHR1,GHITM,LRIT1,LRIT2 |
| 28 | 39,450,000 | 39,600,000 | 527 | 1146 | 0.538109747 | CDHR1,LRIT1,LRIT2,RGR |
| 28 | 39,525,000 | 39,675,000 | 528 | 956 | 0.408864494 | CCSER2,LRIT1,RGR |
| 28 | 39,600,000 | 39,750,000 | 529 | 645 | -0.472298589 | CCSER2 |
| 28 | 39,675,000 | 39,825,000 | 530 | 940 | -1.965447233 | CCSER2 |
| 28 | 39,750,000 | 39,900,000 | 531 | 1109 | -2.039242113 | |
| 28 | 39,825,000 | 39,975,000 | 532 | 921 | -0.946366714 | |
| 28 | 39,900,000 | 40,050,000 | 533 | 874 | 0.00531373 | |
| 28 | 39,975,000 | 40,125,000 | 534 | 653 | 0.216294995 | |
| 28 | 40,050,000 | 40,200,000 | 535 | 682 | 0.54712623 | |
| 28 | 40,125,000 | 40,275,000 | 536 | 579 | 0.929099045 | |
| 28 | 40,200,000 | 40,350,000 | 537 | 538 | 0.800377974 | |
| 28 | 40,275,000 | 40,425,000 | 538 | 705 | 0.803331918 | |
| 28 | 40,350,000 | 40,500,000 | 539 | 748 | 0.169580883 | |
| 28 | 40,425,000 | 40,575,000 | 540 | 1017 | 0.490053492 | |
| 28 | 40,500,000 | 40,650,000 | 541 | 1156 | 0.608198701 | |
| 28 | 40,575,000 | 40,725,000 | 542 | 1085 | -0.475356768 | |
| 28 | 40,650,000 | 40,800,000 | 543 | 975 | -0.96758679 | GRID1 |
| 28 | 40,725,000 | 40,875,000 | 544 | 1009 | -0.963244482 | GRID1 |
| 28 | 40,800,000 | 40,950,000 | 545 | 1161 | 0.086060071 | GRID1 |
| 28 | 40,875,000 | 41,025,000 | 546 | 1279 | 0.372645579 | GRID1 |
| 28 | 40,950,000 | 41,100,000 | 547 | 1211 | -0.076243105 | GRID1 |
| 28 | 41,025,000 | 41,175,000 | 548 | 813 | 0.12468953 | |
| 28 | 41,100,000 | 41,250,000 | 549 | 844 | 0.704958495 | |
| 28 | 41,175,000 | 41,325,000 | 550 | 936 | 0.093286503 | |
| 28 | 41,250,000 | 41,400,000 | 551 | 988 | -0.328672386 | |
| 28 | 41,325,000 | 41,475,000 | 552 | 1022 | -0.453210474 | |
| 28 | 41,400,000 | 41,550,000 | 553 | 592 | -0.997238704 | WAPAL |
| 28 | 41,475,000 | 41,625,000 | 554 | 316 | -0.467926687 | WAPAL |
| 28 | 41,550,000 | 41,700,000 | 555 | 543 | -1.218277338 | LDB3,OPN4,WAPAL |
| 28 | 41,625,000 | 41,775,000 | 556 | 754 | -0.552611751 | LDB3,OPN4 |
| 28 | 41,700,000 | 41,850,000 | 557 | 978 | 0.898752406 | BMPR-IA,LDB3 |
| | | | | | | BMPR- |
| 28 | 41,775,000 | 41,925,000 | 558 | 1072 | 0.981936817 | IA,C28H10ORF116,MMRN2,SNCG,ENSBTAG00000017 |
| | | | | | | 946 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 28 | 41,850,000 | 42,000,000 | 559 | 966 | 1.133129332 | BMPR- IA,C28H10ORF116,GLUD1,MMRN2,SNCG,ENSBTAG0000017946 |
| 28 | 41,925,000 | 42,075,000 | 560 | 860 | 0.055202265 | FAM35A,GLUD1 |
| 28 | 42,000,000 | 42,150,000 | 561 | 847 | -0.564152136 | FAM35A,GPRIN2,ENSBTAG00000018356 |
| 28 | 42,075,000 | 42,225,000 | 562 | 996 | -0.188011537 | FAM35A,GPRIN2,ENSBTAG00000018356 |
| 28 | 42,150,000 | 42,300,000 | 563 | 989 | -0.652424597 | ANXA8,PPYR1 |
| 28 | 42,225,000 | 42,375,000 | 564 | 743 | -0.957463098 | ANTXRL,ANXA8,PPYR1 |
| 28 | 42,300,000 | 42,450,000 | 565 | 716 | 0.031915361 | ANTXRL,ANXA8 |
| 28 | 42,375,000 | 42,525,000 | 566 | 887 | 0.161450805 | |
| 28 | 42,450,000 | 42,600,000 | 567 | 1122 | 0.076117582 | RBP3 |
| 28 | 42,525,000 | 42,675,000 | 568 | 1063 | 0.228370796 | GDF10,GDF2,RBP3 |
| 28 | 42,600,000 | 42,750,000 | 569 | 799 | 0.125102705 | GDF10,GDF2,RBP3 |
| 28 | 42,675,000 | 42,825,000 | 570 | 1029 | -0.916610976 | |
| 28 | 42,750,000 | 42,900,000 | 571 | 1291 | -0.669367888 | ENSBTAG00000014938 |
| 28 | 42,825,000 | 42,975,000 | 572 | 1025 | 0.253144746 | ENSBTAG00000005568,ENSBTAG00000014938 |
| 28 | 42,900,000 | 43,050,000 | 573 | 680 | 0.114573066 | ENSBTAG00000005568 |
| 28 | 42,975,000 | 43,125,000 | 574 | 526 | -0.224391722 | ENSBTAG00000005568 |
| 28 | 43,050,000 | 43,200,000 | 575 | 396 | -0.636246025 | MAPK8 |
| 28 | 43,125,000 | 43,275,000 | 576 | 515 | -1.640122421 | ARHGAP22,MAPK8 |
| 28 | 43,200,000 | 43,350,000 | 577 | 915 | -0.041352201 | ARHGAP22 |
| 28 | 43,275,000 | 43,425,000 | 578 | 904 | 0.577437719 | |
| 28 | 43,350,000 | 43,500,000 | 579 | 766 | 0.31294427 | WDFY4 |
| 28 | 43,425,000 | 43,575,000 | 580 | 900 | -0.008946126 | WDFY4 |
| 28 | 43,500,000 | 43,650,000 | 581 | 1264 | -0.605710013 | LRRC18,WDFY4 |
| 28 | 43,575,000 | 43,725,000 | 582 | 1365 | -0.436161085 | LRRC18,VSTM4,WDFY4 |
| 28 | 43,650,000 | 43,800,000 | 583 | 958 | -0.169271074 | FAM170B,VSTM4,WDFY4 |
| 28 | 43,725,000 | 43,875,000 | 584 | 777 | -0.079567956 | C10orf128,FAM170B,VSTM4 |
| 28 | 43,800,000 | 43,950,000 | 585 | 885 | 0.207131745 | C10orf128,C10orf71 |
| 28 | 43,875,000 | 44,025,000 | 586 | 1175 | 0.452962356 | C10orf71,DRGX,ERCC6 |
| 28 | 43,950,000 | 44,100,000 | 587 | 1483 | 0.537121849 | DRGX,ERCC6 |
| 28 | 44,025,000 | 44,175,000 | 588 | 1617 | -0.055418453 | CHAT,ERCC6,SLC18A3 |
| 28 | 44,100,000 | 44,250,000 | 589 | 1211 | -0.734614727 | C28H10orf53,CHAT,OGDHL,SLC18A3 |
| 28 | 44,175,000 | 44,325,000 | 590 | 821 | -0.534589931 | C28H10orf53,CHAT,OGDHL,PARG |
| 28 | 44,250,000 | 44,400,000 | 591 | 670 | -0.210624902 | OGDHL,PARG,TIMM23 |
| 28 | 44,325,000 | 44,475,000 | 592 | 850 | -2.127379981 | MSMB,NCOA4,PARG,TIMM23 |
| 28 | 44,400,000 | 44,550,000 | 593 | 1239 | -1.081205787 | ANUBL1,MSMB,NCOA4,TIMM23,ENSBTAG00000018915 |
| 28 | 44,475,000 | 44,625,000 | 594 | 1118 | -0.109494361 | ANUBL1,MARCH8,ENSBTAG00000018915 |
| 28 | 44,550,000 | 44,700,000 | 595 | 818 | 0.362625673 | ANUBL1,MARCH8 |
| 28 | 44,625,000 | 44,775,000 | 596 | 829 | 0.635433721 | ALOX5,MARCH8 |
| 28 | 44,700,000 | 44,850,000 | 597 | 865 | 0.415749242 | ALOX5,MARCH8,OR13A1,ENSBTAG00000009763 |
| 28 | 44,775,000 | 44,925,000 | 598 | 666 | 0.485118364 | ALOX5,OR13A1,ENSBTAG00000009763,ENSBTAG000048311 |
| 28 | 44,850,000 | 45,000,000 | 599 | 546 | 0.274143953 | C28H10ORF10,RASSF4,ENSBTAG00000024811,ENSBTAG00000048311 |
| 28 | 44,925,000 | 45,075,000 | 600 | 573 | 0.110954485 | C28H10ORF10,RASSF4,TMEM72,ENSBTAG00000024811,ENSBTAG00000047666 |
| 28 | 45,000,000 | 45,150,000 | 601 | 712 | 0.092985215 | RASSF4,TMEM72,ENSBTAG00000047666 |
| 28 | 45,075,000 | 45,225,000 | 602 | 973 | 0.066256584 | |
| 28 | 45,150,000 | 45,300,000 | 603 | 1146 | 0.324542189 | |
| 28 | 45,225,000 | 45,375,000 | 604 | 1309 | 0.680454455 | |
| 28 | 45,300,000 | 45,450,000 | 605 | 1055 | 0.277462613 | CXCL12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 28 | 45,375,000 | 45,525,000 | 606 | 765 | -1.589028218 | CXCL12 |
| 28 | 45,450,000 | 45,600,000 | 607 | 679 | -1.029040016 | |
| 28 | 45,525,000 | 45,675,000 | 608 | 889 | 0.582653561 | |
| 28 | 45,600,000 | 45,750,000 | 609 | 1276 | -0.132956896 | |
| 28 | 45,675,000 | 45,825,000 | 610 | 1059 | -1.295376914 | |
| 28 | 45,750,000 | 45,900,000 | 611 | 853 | -1.908427184 | |
| 28 | 45,825,000 | 45,975,000 | 612 | 788 | -1.059317998 | |
| 28 | 45,900,000 | 46,050,000 | 613 | 915 | 0.044870073 | ZNF32,ENSBTAG00000032655 |
| 28 | 45,975,000 | 46,125,000 | 614 | 1152 | 0.564953201 | TFAM,ZNF239,ZNF32,ENSBTAG00000032655 |
| 28 | 46,050,000 | 46,200,000 | 615 | 996 | 0.390792444 | AGT,COG2,TFAM,ZNF239 |
| 28 | 46,125,000 | 46,275,000 | 616 | 662 | -1.01687596 | AGT,COG2 |
| 28 | 46,200,000 | 46,312,546 | 617 | 401 | -0.569344938 | COG2 |
| 29 | 0 | 150,000 | 1 | 134 | -0.020392796 | ENSBTAG00000005930 |
| 29 | 75,000 | 225,000 | 2 | 108 | 0.729132821 | ENSBTAG00000005930 |
| 29 | 150,000 | 300,000 | 3 | 102 | 0.974532188 | |
| 29 | 225,000 | 375,000 | 4 | 109 | 0.330950606 | |
| 29 | 300,000 | 450,000 | 5 | 143 | -0.149322934 | |
| 29 | 375,000 | 525,000 | 6 | 162 | -0.061015531 | |
| 29 | 450,000 | 600,000 | 7 | 231 | 0.195083387 | PANX1 |
| 29 | 525,000 | 675,000 | 8 | 484 | 0.170614889 | HEPHL1,PANX1 |
| 29 | 600,000 | 750,000 | 9 | 620 | -0.472074246 | HEPHL1,PANX1 |
| 29 | 675,000 | 825,000 | 10 | 434 | -0.878468565 | HEPHL1 |
| 29 | 750,000 | 900,000 | 11 | 416 | 0.867648209 | |
| 29 | 825,000 | 975,000 | 12 | 679 | 0.829813019 | |
| 29 | 900,000 | 1,050,000 | 13 | 795 | -0.476038286 | C11orf54,MED17,VSTM5 |
| 29 | 975,000 | 1,125,000 | 14 | 612 | -1.110807452 | C11orf54,KIAA1731,MED17,TAF1D,VSTM5 |
| 29 | 1,050,000 | 1,200,000 | 15 | 1057 | -0.553105134 | C11orf54,KIAA1731,TAF1D |
| 29 | 1,125,000 | 1,275,000 | 16 | 1469 | -0.806016647 | |
| 29 | 1,200,000 | 1,350,000 | 17 | 1567 | -0.935044899 | SMCO4 |
| 29 | 1,275,000 | 1,425,000 | 18 | 1410 | -0.780056044 | CCDC67,SMCO4 |
| 29 | 1,350,000 | 1,500,000 | 19 | 992 | -1.987837707 | CCDC67,SMCO4 |
| 29 | 1,425,000 | 1,575,000 | 20 | 1214 | -4.229009995 | CCDC67 |
| 29 | 1,500,000 | 1,650,000 | 21 | 1442 | -2.747962414 | |
| 29 | 1,575,000 | 1,725,000 | 22 | 1405 | -0.604888931 | SLC36A4 |
| 29 | 1,650,000 | 1,800,000 | 23 | 1274 | -0.314915725 | SLC36A4 |
| 29 | 1,725,000 | 1,875,000 | 24 | 1155 | 0.312345557 | |
| 29 | 1,800,000 | 1,950,000 | 25 | 1117 | 0.07812638 | ENSBTAG00000013398,ENSBTAG00000047614 |
| 29 | 1,875,000 | 2,025,000 | 26 | 1049 | -0.184028624 | FAT3,ENSBTAG00000013398,ENSBTAG00000047614 |
| 29 | 1,950,000 | 2,100,000 | 27 | 885 | -0.64303646 | FAT3 |
| 29 | 2,025,000 | 2,175,000 | 28 | 1022 | 0.313501487 | FAT3 |
| 29 | 2,100,000 | 2,250,000 | 29 | 1349 | 0.614359708 | FAT3 |
| 29 | 2,175,000 | 2,325,000 | 30 | 1676 | 0.290280662 | FAT3 |
| 29 | 2,250,000 | 2,400,000 | 31 | 1874 | 0.568447771 | FAT3 |
| 29 | 2,325,000 | 2,475,000 | 32 | 1805 | 0.918862757 | FAT3 |
| 29 | 2,400,000 | 2,550,000 | 33 | 1915 | 0.281394457 | FAT3 |
| 29 | 2,475,000 | 2,625,000 | 34 | 2065 | -0.699587693 | FAT3 |
| 29 | 2,550,000 | 2,700,000 | 35 | 1804 | -0.473295751 | FAT3 |
| 29 | 2,625,000 | 2,775,000 | 36 | 1634 | 0.498277528 | |
| 29 | 2,700,000 | 2,850,000 | 37 | 1698 | 0.647176123 | |
| 29 | 2,775,000 | 2,925,000 | 38 | 1876 | 0.101620014 | |
| 29 | 2,850,000 | 3,000,000 | 39 | 2095 | 0.173009072 | |
| 29 | 2,925,000 | 3,075,000 | 40 | 2066 | 0.015609128 | |
| 29 | 3,000,000 | 3,150,000 | 41 | 1468 | 0.014722371 | |

| | | | | | | |
|----|-----------|-----------|----|------|--------------|---|
| 29 | 3,075,000 | 3,225,000 | 42 | 1224 | -0.370425402 | |
| 29 | 3,150,000 | 3,300,000 | 43 | 1288 | 0.015136585 | |
| 29 | 3,225,000 | 3,375,000 | 44 | 1150 | 0.034505523 | |
| 29 | 3,300,000 | 3,450,000 | 45 | 1063 | -0.937241364 | |
| 29 | 3,375,000 | 3,525,000 | 46 | 1042 | -2.509397125 | |
| 29 | 3,450,000 | 3,600,000 | 47 | 1077 | -3.236098034 | |
| 29 | 3,525,000 | 3,675,000 | 48 | 803 | -2.611836004 | |
| 29 | 3,600,000 | 3,750,000 | 49 | 1042 | -0.495597036 | |
| 29 | 3,675,000 | 3,825,000 | 50 | 1264 | -0.25471706 | |
| 29 | 3,750,000 | 3,900,000 | 51 | 1443 | -0.529739018 | |
| 29 | 3,825,000 | 3,975,000 | 52 | 1430 | 0.095109611 | |
| 29 | 3,900,000 | 4,050,000 | 53 | 1269 | 0.018990797 | |
| 29 | 3,975,000 | 4,125,000 | 54 | 1362 | -0.547976444 | |
| 29 | 4,050,000 | 4,200,000 | 55 | 1277 | -0.266413931 | |
| 29 | 4,125,000 | 4,275,000 | 56 | 1130 | 0.082412154 | |
| 29 | 4,200,000 | 4,350,000 | 57 | 1562 | -1.130026275 | |
| 29 | 4,275,000 | 4,425,000 | 58 | 2308 | 0.154969535 | |
| 29 | 4,350,000 | 4,500,000 | 59 | 2366 | 1.226622356 | |
| 29 | 4,425,000 | 4,575,000 | 60 | 1949 | 1.160963453 | |
| 29 | 4,500,000 | 4,650,000 | 61 | 1399 | 0.18433272 | |
| 29 | 4,575,000 | 4,725,000 | 62 | 1016 | -0.307333231 | |
| 29 | 4,650,000 | 4,800,000 | 63 | 1159 | 0.288048867 | |
| 29 | 4,725,000 | 4,875,000 | 64 | 989 | -0.239954463 | |
| 29 | 4,800,000 | 4,950,000 | 65 | 709 | -1.756284773 | |
| 29 | 4,875,000 | 5,025,000 | 66 | 1196 | 0.539284711 | |
| 29 | 4,950,000 | 5,100,000 | 67 | 1331 | 0.849351488 | CHORDC1,NAALAD2 |
| 29 | 5,025,000 | 5,175,000 | 68 | 1039 | -1.183914497 | CHORDC1,NAALAD2 |
| 29 | 5,100,000 | 5,250,000 | 69 | 1075 | -2.519794454 | NAALAD2,RNF18,ENSBTAG00000034940,ENSBTAG0000046740 |
| 29 | 5,175,000 | 5,325,000 | 70 | 1084 | -1.262805567 | RNF18,ENSBTAG00000034940,ENSBTAG00000046740,ENSBTAG00000046789 |
| 29 | 5,250,000 | 5,400,000 | 71 | 1023 | -0.503587884 | ENSBTAG00000033656,ENSBTAG00000046789 |
| 29 | 5,325,000 | 5,475,000 | 72 | 1371 | 0.147537347 | ENSBTAG00000033656,ENSBTAG00000046202 |
| 29 | 5,400,000 | 5,550,000 | 73 | 1398 | -0.655892036 | ENSBTAG00000046202 |
| 29 | 5,475,000 | 5,625,000 | 74 | 1064 | -0.674053379 | |
| 29 | 5,550,000 | 5,700,000 | 75 | 1185 | -0.702350135 | TRIM43,ENSBTAG00000034891 |
| 29 | 5,625,000 | 5,775,000 | 76 | 1354 | -0.551813437 | TRIM43,ENSBTAG00000034891,ENSBTAG00000034921,ENSBTAG00000038209 |
| 29 | 5,700,000 | 5,850,000 | 77 | 1062 | -0.162995708 | ENSBTAG00000034921,ENSBTAG00000038169,ENSBTAG00000038209 |
| 29 | 5,775,000 | 5,925,000 | 78 | 1070 | -0.256237717 | FOLH1,ENSBTAG00000038169,ENSBTAG00000039825 |
| 29 | 5,850,000 | 6,000,000 | 79 | 1376 | -0.251805931 | FOLH1,ENSBTAG00000038169,ENSBTAG00000039825 |
| 29 | 5,925,000 | 6,075,000 | 80 | 1594 | -0.259276006 | FOLH1 |
| 29 | 6,000,000 | 6,150,000 | 81 | 1431 | 0.206404541 | NOX4 |
| 29 | 6,075,000 | 6,225,000 | 82 | 1461 | 0.244720305 | NOX4 |
| 29 | 6,150,000 | 6,300,000 | 83 | 1739 | -1.382501341 | NOX4 |
| 29 | 6,225,000 | 6,375,000 | 84 | 1281 | -3.154715487 | NOX4,TYR |
| 29 | 6,300,000 | 6,450,000 | 85 | 1088 | -1.802208094 | NOX4,TYR |
| 29 | 6,375,000 | 6,525,000 | 86 | 974 | 0.042450485 | TYR |
| 29 | 6,450,000 | 6,600,000 | 87 | 928 | -0.315868578 | TYR |
| 29 | 6,525,000 | 6,675,000 | 88 | 1325 | -1.03656823 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------------|
| 29 | 6,600,000 | 6,750,000 | 89 | 1527 | -1.640591017 | |
| 29 | 6,675,000 | 6,825,000 | 90 | 1536 | -1.762975232 | |
| 29 | 6,750,000 | 6,900,000 | 91 | 1317 | -0.291799657 | |
| 29 | 6,825,000 | 6,975,000 | 92 | 967 | 0.520933681 | |
| 29 | 6,900,000 | 7,050,000 | 93 | 1074 | 0.377711465 | |
| 29 | 6,975,000 | 7,125,000 | 94 | 1209 | 0.503976272 | |
| 29 | 7,050,000 | 7,200,000 | 95 | 1233 | 0.733432042 | GRM5 |
| 29 | 7,125,000 | 7,275,000 | 96 | 1418 | 0.813052936 | GRM5 |
| 29 | 7,200,000 | 7,350,000 | 97 | 1234 | 0.172486599 | GRM5 |
| 29 | 7,275,000 | 7,425,000 | 98 | 1291 | -0.98158601 | ENSBTAG00000034845 |
| 29 | 7,350,000 | 7,500,000 | 99 | 1507 | -0.462997437 | CTSC,ENSBTAG00000034845 |
| 29 | 7,425,000 | 7,575,000 | 100 | 1643 | -0.045428819 | CTSC,RAB38,ENSBTAG00000046360 |
| 29 | 7,500,000 | 7,650,000 | 101 | 1596 | 0.00264562 | RAB38,ENSBTAG00000046360 |
| 29 | 7,575,000 | 7,725,000 | 102 | 1814 | 0.882975592 | DENR,RAB38 |
| 29 | 7,650,000 | 7,800,000 | 103 | 1753 | 0.994694692 | DENR |
| 29 | 7,725,000 | 7,875,000 | 104 | 1220 | 1.285070205 | DENR |
| 29 | 7,800,000 | 7,950,000 | 105 | 1153 | 1.419484185 | |
| 29 | 7,875,000 | 8,025,000 | 106 | 1182 | 0.638980225 | |
| 29 | 7,950,000 | 8,100,000 | 107 | 1196 | 0.843914121 | |
| 29 | 8,025,000 | 8,175,000 | 108 | 1179 | 0.7885869 | |
| 29 | 8,100,000 | 8,250,000 | 109 | 1380 | -0.68215328 | |
| 29 | 8,175,000 | 8,325,000 | 110 | 1187 | -2.302190906 | TMEM135 |
| 29 | 8,250,000 | 8,400,000 | 111 | 806 | -2.142133051 | TMEM135 |
| 29 | 8,325,000 | 8,475,000 | 112 | 604 | -0.130662623 | TMEM135 |
| 29 | 8,400,000 | 8,550,000 | 113 | 417 | -0.470197581 | |
| 29 | 8,475,000 | 8,625,000 | 114 | 339 | -0.610442724 | |
| 29 | 8,550,000 | 8,700,000 | 115 | 429 | -0.675571425 | FZD4 |
| 29 | 8,625,000 | 8,775,000 | 116 | 1197 | 0.645936541 | FZD4 |
| 29 | 8,700,000 | 8,850,000 | 117 | 1466 | 0.571921797 | PRSS23 |
| 29 | 8,775,000 | 8,925,000 | 118 | 1065 | 0.316935224 | PRSS23 |
| 29 | 8,850,000 | 9,000,000 | 119 | 1117 | 0.287722372 | ME3 |
| 29 | 8,925,000 | 9,075,000 | 120 | 1732 | -0.150673457 | ME3 |
| 29 | 9,000,000 | 9,150,000 | 121 | 2134 | 0.150483663 | ME3 |
| 29 | 9,075,000 | 9,225,000 | 122 | 1774 | 0.502879228 | CCDC81,ME3 |
| 29 | 9,150,000 | 9,300,000 | 123 | 1133 | 0.357417648 | C29H11orf73,CCDC81,ME3 |
| 29 | 9,225,000 | 9,375,000 | 124 | 659 | -0.3714938 | C29H11orf73,CCDC81,EED |
| 29 | 9,300,000 | 9,450,000 | 125 | 525 | -0.39222514 | C29H11orf73,EED |
| 29 | 9,375,000 | 9,525,000 | 126 | 795 | 0.514428378 | |
| 29 | 9,450,000 | 9,600,000 | 127 | 724 | 0.643306213 | |
| 29 | 9,525,000 | 9,675,000 | 128 | 322 | -0.564121625 | PICALM |
| 29 | 9,600,000 | 9,750,000 | 129 | 366 | -2.425793901 | CCDC83,PICALM |
| 29 | 9,675,000 | 9,825,000 | 130 | 469 | -1.53094097 | CCDC83,SYTL2 |
| 29 | 9,750,000 | 9,900,000 | 131 | 656 | -0.815938418 | CCDC83,SYTL2 |
| 29 | 9,825,000 | 9,975,000 | 132 | 991 | 0.047452598 | CCDC89,CREBZF,SYTL2,TMEM126A |
| 29 | 9,900,000 | 10,050,000 | 133 | 1114 | 0.338946185 | CCDC89,CREBZF,SYTL2,TMEM126A,TMEM126B |
| 29 | 9,975,000 | 10,125,000 | 134 | 928 | -0.991233987 | TMEM126B |
| 29 | 10,050,000 | 10,200,000 | 135 | 847 | -0.323665711 | |
| 29 | 10,125,000 | 10,275,000 | 136 | 992 | 0.847472177 | |
| 29 | 10,200,000 | 10,350,000 | 137 | 1151 | 0.580207415 | |
| 29 | 10,275,000 | 10,425,000 | 138 | 1402 | 0.736059461 | |
| 29 | 10,350,000 | 10,500,000 | 139 | 1369 | 1.06358824 | |
| 29 | 10,425,000 | 10,575,000 | 140 | 1218 | 0.379082308 | |
| 29 | 10,500,000 | 10,650,000 | 141 | 1372 | -2.485089318 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|-------------------------|
| 29 | 10,575,000 | 10,725,000 | 142 | 1213 | -3.743640036 | |
| 29 | 10,650,000 | 10,800,000 | 143 | 986 | -1.589659099 | ENSBTAG00000047436 |
| 29 | 10,725,000 | 10,875,000 | 144 | 1298 | -1.147746755 | ENSBTAG00000047436 |
| 29 | 10,800,000 | 10,950,000 | 145 | 1391 | -0.826259649 | |
| 29 | 10,875,000 | 11,025,000 | 146 | 1366 | -0.216814965 | |
| 29 | 10,950,000 | 11,100,000 | 147 | 1750 | -0.360525117 | |
| 29 | 11,025,000 | 11,175,000 | 148 | 1657 | -0.307668263 | |
| 29 | 11,100,000 | 11,250,000 | 149 | 979 | -0.024385432 | |
| 29 | 11,175,000 | 11,325,000 | 150 | 1073 | 0.58267976 | |
| 29 | 11,250,000 | 11,400,000 | 151 | 1413 | 0.468258742 | |
| 29 | 11,325,000 | 11,475,000 | 152 | 1043 | -0.087372663 | |
| 29 | 11,400,000 | 11,550,000 | 153 | 790 | -1.121596018 | |
| 29 | 11,475,000 | 11,625,000 | 154 | 920 | -1.407754613 | |
| 29 | 11,550,000 | 11,700,000 | 155 | 1115 | -0.181041668 | |
| 29 | 11,625,000 | 11,775,000 | 156 | 1140 | 0.098504304 | |
| 29 | 11,700,000 | 11,850,000 | 157 | 1083 | -1.234773958 | |
| 29 | 11,775,000 | 11,925,000 | 158 | 1352 | -1.080765732 | |
| 29 | 11,850,000 | 12,000,000 | 159 | 1573 | 0.324137769 | |
| 29 | 11,925,000 | 12,075,000 | 160 | 1092 | 0.346507679 | |
| 29 | 12,000,000 | 12,150,000 | 161 | 728 | -2.307125926 | DLG2 |
| 29 | 12,075,000 | 12,225,000 | 162 | 824 | -0.837615346 | DLG2,ENSBTAG00000017735 |
| 29 | 12,150,000 | 12,300,000 | 163 | 840 | 0.112060624 | DLG2,ENSBTAG00000017735 |
| 29 | 12,225,000 | 12,375,000 | 164 | 785 | -0.001978039 | DLG2 |
| 29 | 12,300,000 | 12,450,000 | 165 | 940 | -0.786988768 | DLG2 |
| 29 | 12,375,000 | 12,525,000 | 166 | 873 | -1.51946708 | ANKRD42,CCDC90B |
| 29 | 12,450,000 | 12,600,000 | 167 | 487 | -0.711641371 | ANKRD42,CCDC90B,PCF11 |
| 29 | 12,525,000 | 12,675,000 | 168 | 600 | 0.517604601 | ANKRD42,PCF11,RAB30 |
| 29 | 12,600,000 | 12,750,000 | 169 | 904 | 0.113462882 | RAB30 |
| 29 | 12,675,000 | 12,825,000 | 170 | 618 | -0.383928641 | DDIAS,PRCP,RAB30 |
| 29 | 12,750,000 | 12,900,000 | 171 | 276 | 0.872696959 | DDIAS,PRCP,RAB30 |
| 29 | 12,825,000 | 12,975,000 | 172 | 372 | 0.861399635 | PRCP |
| 29 | 12,900,000 | 13,050,000 | 173 | 560 | 0.151079071 | FAM181B,PRCP |
| 29 | 12,975,000 | 13,125,000 | 174 | 970 | 0.569387794 | FAM181B |
| 29 | 13,050,000 | 13,200,000 | 175 | 1141 | 1.168519446 | |
| 29 | 13,125,000 | 13,275,000 | 176 | 1410 | 0.876704942 | |
| 29 | 13,200,000 | 13,350,000 | 177 | 1793 | 0.830325874 | |
| 29 | 13,275,000 | 13,425,000 | 178 | 1184 | 1.22809416 | |
| 29 | 13,350,000 | 13,500,000 | 179 | 699 | -0.047522807 | ENSBTAG00000010970 |
| 29 | 13,425,000 | 13,575,000 | 180 | 843 | 0.078741505 | ENSBTAG00000010970 |
| 29 | 13,500,000 | 13,650,000 | 181 | 1204 | 0.020556431 | ENSBTAG00000022427 |
| 29 | 13,575,000 | 13,725,000 | 182 | 1439 | -0.51050422 | ENSBTAG00000022427 |
| 29 | 13,650,000 | 13,800,000 | 183 | 1338 | -0.647193116 | |
| 29 | 13,725,000 | 13,875,000 | 184 | 1292 | -0.488830522 | |
| 29 | 13,800,000 | 13,950,000 | 185 | 1367 | 0.621629109 | |
| 29 | 13,875,000 | 14,025,000 | 186 | 1605 | 0.77432669 | |
| 29 | 13,950,000 | 14,100,000 | 187 | 1432 | 0.25758122 | |
| 29 | 14,025,000 | 14,175,000 | 188 | 1173 | -0.31345854 | |
| 29 | 14,100,000 | 14,250,000 | 189 | 1101 | 0.430698197 | |
| 29 | 14,175,000 | 14,325,000 | 190 | 871 | 0.216324478 | |
| 29 | 14,250,000 | 14,400,000 | 191 | 806 | 0.075644579 | |
| 29 | 14,325,000 | 14,475,000 | 192 | 768 | 0.079881251 | |
| 29 | 14,400,000 | 14,550,000 | 193 | 907 | 0.570731652 | |
| 29 | 14,475,000 | 14,625,000 | 194 | 1042 | 0.749002164 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---------------------------------|
| 29 | 14,550,000 | 14,700,000 | 195 | 1064 | -1.573073699 | |
| 29 | 14,625,000 | 14,775,000 | 196 | 1747 | -0.634524966 | |
| 29 | 14,700,000 | 14,850,000 | 197 | 1730 | 0.3239951 | |
| 29 | 14,775,000 | 14,925,000 | 198 | 1211 | 0.212613403 | |
| 29 | 14,850,000 | 15,000,000 | 199 | 1330 | -1.144897669 | |
| 29 | 14,925,000 | 15,075,000 | 200 | 1149 | -1.021734561 | |
| 29 | 15,000,000 | 15,150,000 | 201 | 980 | 1.058787286 | |
| 29 | 15,075,000 | 15,225,000 | 202 | 1259 | -0.374439355 | |
| 29 | 15,150,000 | 15,300,000 | 203 | 1466 | -0.913127361 | |
| 29 | 15,225,000 | 15,375,000 | 204 | 1367 | 0.245948058 | |
| 29 | 15,300,000 | 15,450,000 | 205 | 1442 | 0.251651725 | |
| 29 | 15,375,000 | 15,525,000 | 206 | 1139 | -0.360501418 | |
| 29 | 15,450,000 | 15,600,000 | 207 | 806 | 0.427383406 | |
| 29 | 15,525,000 | 15,675,000 | 208 | 1111 | 0.696244873 | |
| 29 | 15,600,000 | 15,750,000 | 209 | 1428 | 0.302118596 | |
| 29 | 15,675,000 | 15,825,000 | 210 | 1741 | 0.229578571 | |
| 29 | 15,750,000 | 15,900,000 | 211 | 1755 | 0.2204695 | |
| 29 | 15,825,000 | 15,975,000 | 212 | 1055 | -0.841910418 | |
| 29 | 15,900,000 | 16,050,000 | 213 | 819 | -1.295431029 | |
| 29 | 15,975,000 | 16,125,000 | 214 | 1239 | 0.438748099 | |
| 29 | 16,050,000 | 16,200,000 | 215 | 1350 | -0.054602209 | |
| 29 | 16,125,000 | 16,275,000 | 216 | 1155 | -0.784698116 | |
| 29 | 16,200,000 | 16,350,000 | 217 | 1147 | -0.605104641 | |
| 29 | 16,275,000 | 16,425,000 | 218 | 1119 | -1.61078988 | |
| 29 | 16,350,000 | 16,500,000 | 219 | 967 | -1.799534965 | |
| 29 | 16,425,000 | 16,575,000 | 220 | 1028 | -0.040389313 | |
| 29 | 16,500,000 | 16,650,000 | 221 | 1053 | 0.099237191 | |
| 29 | 16,575,000 | 16,725,000 | 222 | 860 | 0.435660638 | |
| 29 | 16,650,000 | 16,800,000 | 223 | 769 | -0.587307748 | |
| 29 | 16,725,000 | 16,875,000 | 224 | 1106 | -0.888900412 | |
| 29 | 16,800,000 | 16,950,000 | 225 | 1137 | -0.569298429 | |
| 29 | 16,875,000 | 17,025,000 | 226 | 893 | -0.351133335 | |
| 29 | 16,950,000 | 17,100,000 | 227 | 1021 | 0.062502165 | TENM4 |
| 29 | 17,025,000 | 17,175,000 | 228 | 1073 | 0.462739942 | TENM4 |
| 29 | 17,100,000 | 17,250,000 | 229 | 1014 | 0.521421626 | TENM4 |
| 29 | 17,175,000 | 17,325,000 | 230 | 1328 | 0.505699855 | TENM4 |
| 29 | 17,250,000 | 17,400,000 | 231 | 1613 | 0.204093007 | TENM4 |
| 29 | 17,325,000 | 17,475,000 | 232 | 1625 | -0.886516949 | TENM4 |
| 29 | 17,400,000 | 17,550,000 | 233 | 1310 | -1.196122361 | NARS2,TENM4,ENSBTAG00000040202 |
| 29 | 17,475,000 | 17,625,000 | 234 | 773 | -0.920599719 | NARS2,TENM4,ENSBTAG00000040202 |
| 29 | 17,550,000 | 17,700,000 | 235 | 516 | -1.161781673 | NARS2 |
| 29 | 17,625,000 | 17,775,000 | 236 | 416 | -1.996474237 | NARS2 |
| 29 | 17,700,000 | 17,850,000 | 237 | 290 | -2.604754169 | ENSBTAG00000002922 |
| 29 | 17,775,000 | 17,925,000 | 238 | 366 | -0.775411656 | USP35,ENSBTAG00000002922 |
| 29 | 17,850,000 | 18,000,000 | 239 | 365 | -0.699365196 | KCTD21,USP35,ENSBTAG00000002922 |
| 29 | 17,925,000 | 18,075,000 | 240 | 232 | -1.759261541 | ALG8,KCTD21,NDUFC2,USP35 |
| 29 | 18,000,000 | 18,150,000 | 241 | 227 | -2.231543242 | ALG8,INTS4,KCTD14,NDUFC2,THRSP |
| 29 | 18,075,000 | 18,225,000 | 242 | 250 | -1.167093636 | INTS4,KCTD14,NDUFC2,THRSP |
| 29 | 18,150,000 | 18,300,000 | 243 | 232 | 0.740406162 | AAMDC,INTS4,RSF1 |
| 29 | 18,225,000 | 18,375,000 | 244 | 251 | 0.65586378 | AAMDC,INTS4,RSF1 |
| 29 | 18,300,000 | 18,450,000 | 245 | 400 | 0.699313275 | CLNS1A,RSF1 |
| 29 | 18,375,000 | 18,525,000 | 246 | 640 | 0.928400275 | AQP11,CLNS1A,RSF1 |
| 29 | 18,450,000 | 18,600,000 | 247 | 845 | 0.74416389 | AQP11,CLNS1A |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--------------------|
| 29 | 18,525,000 | 18,675,000 | 248 | 956 | 0.339830611 | |
| 29 | 18,600,000 | 18,750,000 | 249 | 946 | 0.510956024 | PAK1 |
| 29 | 18,675,000 | 18,825,000 | 250 | 704 | 0.629313639 | PAK1 |
| 29 | 18,750,000 | 18,900,000 | 251 | 643 | 0.103241054 | PAK1 |
| 29 | 18,825,000 | 18,975,000 | 252 | 949 | 0.277570264 | |
| 29 | 18,900,000 | 19,050,000 | 253 | 1110 | -1.027327983 | |
| 29 | 18,975,000 | 19,125,000 | 254 | 1061 | -2.038166245 | ENSBTAG00000034536 |
| 29 | 19,050,000 | 19,200,000 | 255 | 907 | -1.706832979 | ENSBTAG00000034536 |
| 29 | 19,125,000 | 19,275,000 | 256 | 1264 | -0.114671074 | ENSBTAG00000034536 |
| 29 | 19,200,000 | 19,350,000 | 257 | 1668 | 0.413190785 | |
| 29 | 19,275,000 | 19,425,000 | 258 | 1344 | 0.75114979 | |
| 29 | 19,350,000 | 19,500,000 | 259 | 1114 | 1.079908321 | |
| 29 | 19,425,000 | 19,575,000 | 260 | 1098 | 1.019216678 | |
| 29 | 19,500,000 | 19,650,000 | 261 | 1103 | 0.852373152 | |
| 29 | 19,575,000 | 19,725,000 | 262 | 1339 | 1.109735444 | |
| 29 | 19,650,000 | 19,800,000 | 263 | 1785 | 0.972405454 | |
| 29 | 19,725,000 | 19,875,000 | 264 | 1909 | 0.889099494 | |
| 29 | 19,800,000 | 19,950,000 | 265 | 1835 | 0.723809717 | |
| 29 | 19,875,000 | 20,025,000 | 266 | 1635 | 0.906613796 | |
| 29 | 19,950,000 | 20,100,000 | 267 | 1177 | 0.712607195 | |
| 29 | 20,025,000 | 20,175,000 | 268 | 1246 | -0.916043672 | |
| 29 | 20,100,000 | 20,250,000 | 269 | 1469 | 0.076410517 | |
| 29 | 20,175,000 | 20,325,000 | 270 | 1446 | -0.165352512 | MGC157332 |
| 29 | 20,250,000 | 20,400,000 | 271 | 1093 | -0.474252213 | MGC157332 |
| 29 | 20,325,000 | 20,475,000 | 272 | 1140 | -0.69344854 | MGC157332 |
| 29 | 20,400,000 | 20,550,000 | 273 | 1207 | -0.917926712 | MGC157332 |
| 29 | 20,475,000 | 20,625,000 | 274 | 1093 | 0.767519521 | MGC157332 |
| 29 | 20,550,000 | 20,700,000 | 275 | 1125 | 0.775543901 | MGC157332 |
| 29 | 20,625,000 | 20,775,000 | 276 | 1193 | 0.825868522 | |
| 29 | 20,700,000 | 20,850,000 | 277 | 1472 | 1.055869511 | |
| 29 | 20,775,000 | 20,925,000 | 278 | 1450 | 1.181775159 | |
| 29 | 20,850,000 | 21,000,000 | 279 | 1477 | 1.19186883 | |
| 29 | 20,925,000 | 21,075,000 | 280 | 1750 | 0.920449665 | |
| 29 | 21,000,000 | 21,150,000 | 281 | 2035 | 0.091633712 | |
| 29 | 21,075,000 | 21,225,000 | 282 | 1610 | -0.423633541 | |
| 29 | 21,150,000 | 21,300,000 | 283 | 1345 | 0.073225481 | |
| 29 | 21,225,000 | 21,375,000 | 284 | 1660 | 0.309083939 | |
| 29 | 21,300,000 | 21,450,000 | 285 | 1778 | 0.463631242 | |
| 29 | 21,375,000 | 21,525,000 | 286 | 1699 | -0.108210781 | |
| 29 | 21,450,000 | 21,600,000 | 287 | 1413 | 0.526910044 | |
| 29 | 21,525,000 | 21,675,000 | 288 | 1397 | 1.010043909 | |
| 29 | 21,600,000 | 21,750,000 | 289 | 1509 | 0.852199937 | |
| 29 | 21,675,000 | 21,825,000 | 290 | 1033 | 0.724991015 | |
| 29 | 21,750,000 | 21,900,000 | 291 | 807 | 0.569531264 | |
| 29 | 21,825,000 | 21,975,000 | 292 | 1048 | -0.345088116 | |
| 29 | 21,900,000 | 22,050,000 | 293 | 1019 | -1.157741399 | |
| 29 | 21,975,000 | 22,125,000 | 294 | 879 | 0.193134629 | |
| 29 | 22,050,000 | 22,200,000 | 295 | 1143 | 0.272021444 | |
| 29 | 22,125,000 | 22,275,000 | 296 | 1115 | 0.411967571 | |
| 29 | 22,200,000 | 22,350,000 | 297 | 1015 | 0.432302949 | GAS2 |
| 29 | 22,275,000 | 22,425,000 | 298 | 802 | 0.141249839 | GAS2 |
| 29 | 22,350,000 | 22,500,000 | 299 | 326 | 0.411468713 | FANCF,GAS2 |
| 29 | 22,425,000 | 22,575,000 | 300 | 617 | -0.819762192 | FANCF |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------------------|
| 29 | 22,500,000 | 22,650,000 | 301 | 805 | -0.434737287 | |
| 29 | 22,575,000 | 22,725,000 | 302 | 761 | 0.55816954 | SLC17A6 |
| 29 | 22,650,000 | 22,800,000 | 303 | 564 | 0.572455692 | ANO5,SLC17A6 |
| 29 | 22,725,000 | 22,875,000 | 304 | 464 | 0.644148661 | ANO5,SLC17A6 |
| 29 | 22,800,000 | 22,950,000 | 305 | 1092 | 0.456589899 | ANO5 |
| 29 | 22,875,000 | 23,025,000 | 306 | 1789 | 0.703521432 | |
| 29 | 22,950,000 | 23,100,000 | 307 | 1889 | 0.732718036 | |
| 29 | 23,025,000 | 23,175,000 | 308 | 1364 | -0.216164241 | |
| 29 | 23,100,000 | 23,250,000 | 309 | 965 | 0.728232314 | |
| 29 | 23,175,000 | 23,325,000 | 310 | 964 | 1.039827147 | |
| 29 | 23,250,000 | 23,400,000 | 311 | 1409 | 0.636644246 | |
| 29 | 23,325,000 | 23,475,000 | 312 | 1835 | 0.59549894 | |
| 29 | 23,400,000 | 23,550,000 | 313 | 1662 | 0.561148093 | |
| 29 | 23,475,000 | 23,625,000 | 314 | 1669 | 0.274228521 | |
| 29 | 23,550,000 | 23,700,000 | 315 | 1604 | 0.223212564 | |
| 29 | 23,625,000 | 23,775,000 | 316 | 1280 | 0.313415312 | |
| 29 | 23,700,000 | 23,850,000 | 317 | 1178 | 0.517275383 | |
| 29 | 23,775,000 | 23,925,000 | 318 | 1370 | 0.387188006 | |
| 29 | 23,850,000 | 24,000,000 | 319 | 1821 | -0.201510926 | |
| 29 | 23,925,000 | 24,075,000 | 320 | 1677 | -0.14875738 | |
| 29 | 24,000,000 | 24,150,000 | 321 | 1004 | 0.353923856 | |
| 29 | 24,075,000 | 24,225,000 | 322 | 655 | 0.755669729 | |
| 29 | 24,150,000 | 24,300,000 | 323 | 1176 | 0.625778759 | |
| 29 | 24,225,000 | 24,375,000 | 324 | 1198 | 0.241260515 | |
| 29 | 24,300,000 | 24,450,000 | 325 | 624 | -1.364129552 | |
| 29 | 24,375,000 | 24,525,000 | 326 | 768 | -1.858493461 | |
| 29 | 24,450,000 | 24,600,000 | 327 | 884 | -0.635113023 | SLC6A5 |
| 29 | 24,525,000 | 24,675,000 | 328 | 676 | -0.399175387 | SLC6A5 |
| 29 | 24,600,000 | 24,750,000 | 329 | 519 | -0.40176276 | PRMT3,SLC6A5 |
| 29 | 24,675,000 | 24,825,000 | 330 | 451 | 1.012730799 | HTATIP2,PRMT3 |
| 29 | 24,750,000 | 24,900,000 | 331 | 385 | 0.738118668 | HTATIP2,PRMT3,ENSBTAG00000008684 |
| 29 | 24,825,000 | 24,975,000 | 332 | 711 | 0.450252737 | ENSBTAG00000008684 |
| 29 | 24,900,000 | 25,050,000 | 333 | 998 | 0.422677103 | DBX1,NAV2 |
| 29 | 24,975,000 | 25,125,000 | 334 | 937 | 0.909905029 | DBX1,NAV2 |
| 29 | 25,050,000 | 25,200,000 | 335 | 1011 | 0.576614633 | NAV2 |
| 29 | 25,125,000 | 25,275,000 | 336 | 939 | -0.544271439 | NAV2 |
| 29 | 25,200,000 | 25,350,000 | 337 | 769 | -0.02497292 | NAV2 |
| 29 | 25,275,000 | 25,425,000 | 338 | 669 | 0.046044326 | NAV2 |
| 29 | 25,350,000 | 25,500,000 | 339 | 944 | -0.031769428 | NAV2 |
| 29 | 25,425,000 | 25,575,000 | 340 | 956 | -0.575222602 | |
| 29 | 25,500,000 | 25,650,000 | 341 | 587 | -2.249498632 | |
| 29 | 25,575,000 | 25,725,000 | 342 | 787 | -2.212997831 | |
| 29 | 25,650,000 | 25,800,000 | 343 | 1002 | -1.382777121 | |
| 29 | 25,725,000 | 25,875,000 | 344 | 877 | 0.356134109 | |
| 29 | 25,800,000 | 25,950,000 | 345 | 839 | 0.863629401 | E2F8 |
| 29 | 25,875,000 | 26,025,000 | 346 | 753 | 0.525449078 | CSRP3,E2F8,ZDHHC13 |
| 29 | 25,950,000 | 26,100,000 | 347 | 569 | -0.0010599 | CSRP3,E2F8,ZDHHC13 |
| 29 | 26,025,000 | 26,175,000 | 348 | 610 | -0.255686053 | MRGPRX2,ZDHHC13 |
| 29 | 26,100,000 | 26,250,000 | 349 | 710 | -0.551959701 | MRGPRX2,PTPN5 |
| 29 | 26,175,000 | 26,325,000 | 350 | 732 | -0.403887685 | PTPN5,TMEM86A |
| 29 | 26,250,000 | 26,400,000 | 351 | 802 | 0.210433539 | PTPN5,SPTY2D1,TMEM86A,UEVLD |
| 29 | 26,325,000 | 26,475,000 | 352 | 829 | -0.132780389 | SPTY2D1,TSG101,UEVLD |
| 29 | 26,400,000 | 26,550,000 | 353 | 692 | -2.122055467 | LDHA,LDHC,TSG101,UEVLD |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 26,475,000 | 26,625,000 | 354 | 703 | -2.479078432 | GTF2H1,HPS5,LDHA,LDHC,TSG101 |
| 29 | 26,550,000 | 26,700,000 | 355 | 880 | -2.21290881 | GTF2H1,HPS5,LDHA,SAA3,ENSBTAG00000022395 |
| 29 | 26,625,000 | 26,775,000 | 356 | 1094 | -0.836248766 | HPS5,M- SAA3.2,SAA1,SAA3,SAA4,ENSBTAG00000022395 |
| 29 | 26,700,000 | 26,850,000 | 357 | 1131 | -0.196887993 | M-SAA3.2,OR4D5,OR6M1,OR8D4,SAA1,SAA4 OR4D5,OR6M1,OR8D4,ENSBTAG00000038590,ENSBT |
| 29 | 26,775,000 | 26,925,000 | 358 | 1080 | -0.491182961 | AG00000046745,ENSBTAG00000047090,ENSBTAG000 00048240 ENSBTAG00000038590,ENSBTAG00000046459,ENSBT |
| 29 | 26,850,000 | 27,000,000 | 359 | 1213 | 0.651973223 | AG00000046745,ENSBTAG00000047090,ENSBTAG000 00048222,ENSBTAG00000048240 OR10G6,ENSBTAG00000046459,ENSBTAG000000473 |
| 29 | 26,925,000 | 27,075,000 | 360 | 1507 | 0.601188839 | 04,ENSBTAG00000047557,ENSBTAG00000048192,EN SBTAG00000048222 OR10G6,ENSBTAG00000047267,ENSBTAG000000473 |
| 29 | 27,000,000 | 27,150,000 | 361 | 1503 | 0.703851981 | 04,ENSBTAG00000047463,ENSBTAG00000047557,EN SBTAG00000048192 VWA5A,ENSBTAG00000022384,ENSBTAG0000003975 |
| 29 | 27,075,000 | 27,225,000 | 362 | 1334 | 0.639817088 | 7,ENSBTAG00000047267,ENSBTAG00000047463,ENS BTAG00000047934 OR10D3,VWA5A,ENSBTAG00000022384,ENSBTAG000 |
| 29 | 27,150,000 | 27,300,000 | 363 | 1522 | 0.119594099 | 00039517,ENSBTAG00000039757,ENSBTAG00000047 934,ENSBTAG00000048043 OR10D3,ENSBTAG00000005112,ENSBTAG000000395 |
| 29 | 27,225,000 | 27,375,000 | 364 | 1576 | -0.109525172 | 17,ENSBTAG00000046247,ENSBTAG00000047530,EN SBTAG00000048043 ENSBTAG00000005112,ENSBTAG00000039964,ENSBT |
| 29 | 27,300,000 | 27,450,000 | 365 | 1529 | -0.568510629 | AG00000046247,ENSBTAG00000046299,ENSBTAG000 00047530 ENSBTAG00000039964,ENSBTAG00000040239,ENSBT |
| 29 | 27,375,000 | 27,525,000 | 366 | 1711 | 0.195677029 | AG00000046299 TMEM225,ENSBTAG00000040239 |
| 29 | 27,450,000 | 27,600,000 | 367 | 2092 | 0.506656286 | TMEM225,ENSBTAG00000047151,ENSBTAG00000047 916 ENSBTAG00000017495,ENSBTAG00000046665,ENSBT |
| 29 | 27,525,000 | 27,675,000 | 368 | 2269 | -0.364731955 | AG00000047151,ENSBTAG00000047916 ENSBTAG00000017495,ENSBTAG00000035631,ENSBT |
| 29 | 27,600,000 | 27,750,000 | 369 | 2435 | -0.864794429 | AG00000047151,ENSBTAG00000047916 ENSBTAG00000017495,ENSBTAG00000035631,ENSBT |
| 29 | 27,675,000 | 27,825,000 | 370 | 2071 | -0.605506635 | AG00000037623,ENSBTAG00000040250,ENSBTAG000 00046665 ENSBTAG00000035631,ENSBTAG00000037623,ENSBT |
| 29 | 27,750,000 | 27,900,000 | 371 | 1430 | -0.247628764 | AG00000040250,ENSBTAG00000046086,ENSBTAG000 00047100,ENSBTAG00000047204,ENSBTAG00000047 753,ENSBTAG00000047840 ENSBTAG00000046086,ENSBTAG00000046130,ENSBT |
| 29 | 27,825,000 | 27,975,000 | 372 | 1455 | -0.494171998 | AG00000047020,ENSBTAG00000047100,ENSBTAG000 00047204,ENSBTAG00000047310,ENSBTAG00000047 730,ENSBTAG00000047753,ENSBTAG00000047840 ENSBTAG00000046130,ENSBTAG00000047020,ENSBT |
| 29 | 27,900,000 | 28,050,000 | 373 | 1556 | 0.11716635 | AG00000047310,ENSBTAG00000047730 ENSBTAG00000005199,ENSBTAG00000006629,ENSBT |
| 29 | 27,975,000 | 28,125,000 | 374 | 1398 | 1.010842461 | AG00000014305,ENSBTAG00000037467 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 28,050,000 | 28,200,000 | 375 | 1190 | 0.801376423 | OR8B8,ENSBTAG00000005199,ENSBTAG0000000662 9,ENSBTAG00000014305,ENSBTAG00000033480,ENS BTAG00000037467 |
| 29 | 28,125,000 | 28,275,000 | 376 | 1233 | 0.476966506 | OR8B8,ENSBTAG00000033480,ENSBTAG0000004641 0,ENSBTAG00000047716,ENSBTAG00000048018 ENSBTAG00000022376,ENSBTAG00000022378,ENSBT AG00000033476,ENSBTAG00000033477,ENSBTAG000 00038182,ENSBTAG00000039676,ENSBTAG00000046 410,ENSBTAG00000047716,ENSBTAG00000048018 ENSBTAG00000022376,ENSBTAG00000022378,ENSBT AG00000024769,ENSBTAG00000033476,ENSBTAG000 00033477,ENSBTAG00000038182,ENSBTAG00000039 676,ENSBTAG00000040090 |
| 29 | 28,200,000 | 28,350,000 | 377 | 1284 | 0.368674105 | PANX3,SIAE,TBRG1,ENSBTAG00000024769,ENSBTAG 00000033476,ENSBTAG00000040090 |
| 29 | 28,275,000 | 28,425,000 | 378 | 1211 | 0.424640889 | PANX3,SIAE,SPA17,TBRG1 |
| 29 | 28,350,000 | 28,500,000 | 379 | 1045 | 0.304298396 | ESAM,MSANTD2,NRGN,SIAE,SPA17,VSIG2 |
| 29 | 28,425,000 | 28,575,000 | 380 | 1027 | -1.531888261 | ESAM,MSANTD2,NRGN,ROBO3,ROBO4,VSIG2 |
| 29 | 28,500,000 | 28,650,000 | 381 | 1051 | -2.242397664 | CCDC15,HEPACAM,ROBO3,ROBO4 |
| 29 | 28,575,000 | 28,725,000 | 382 | 945 | 0.048701396 | CCDC15,HEPACAM,ROBO4,SLC37A2 |
| 29 | 28,650,000 | 28,800,000 | 383 | 1007 | -0.350799235 | CCDC15,SLC37A2,TMEM218 |
| 29 | 28,725,000 | 28,875,000 | 384 | 879 | -0.498608115 | SLC37A2,TMEM218 |
| 29 | 28,800,000 | 28,950,000 | 385 | 729 | 0.868630758 | |
| 29 | 28,875,000 | 29,025,000 | 386 | 844 | -0.182536525 | |
| 29 | 28,950,000 | 29,100,000 | 387 | 748 | -0.714179833 | |
| 29 | 29,025,000 | 29,175,000 | 388 | 812 | 0.597826719 | |
| 29 | 29,100,000 | 29,250,000 | 389 | 972 | 0.190984699 | PKNOX2 |
| 29 | 29,175,000 | 29,325,000 | 390 | 1165 | 0.224314862 | FEZ1,PKNOX2 |
| 29 | 29,250,000 | 29,400,000 | 391 | 1124 | -0.032594183 | EI24,FEZ1,PKNOX2,STT3A |
| 29 | 29,325,000 | 29,475,000 | 392 | 663 | -1.339854639 | ACRV1,CHEK1,EI24,SSLP1,STT3A |
| 29 | 29,400,000 | 29,550,000 | 393 | 799 | -0.679959302 | ACRV1,CHEK1,SSLP1,ENSBTAG00000023300,ENSBTA G00000023301 |
| 29 | 29,475,000 | 29,625,000 | 394 | 735 | -0.2026443 | HYLS1,PATE2,PUS3,ENSBTAG00000023300,ENSBTAG0 0000023301,ENSBTAG00000033377 |
| 29 | 29,550,000 | 29,700,000 | 395 | 269 | -0.658558093 | CDON,DDX25,HYLS1,PATE2,PUS3,ENSBTAG00000033 377 |
| 29 | 29,625,000 | 29,775,000 | 396 | 468 | -2.776505424 | CDON,DDX25,HYLS1 |
| 29 | 29,700,000 | 29,850,000 | 397 | 701 | -0.990985325 | CDON |
| 29 | 29,775,000 | 29,925,000 | 398 | 957 | -0.088678598 | RPUSD4 |
| 29 | 29,850,000 | 30,000,000 | 399 | 1023 | -1.143603651 | FAM118B,FOXRED1,RPUSD4,SRPR,ENSBTAG0000004 8137 |
| 29 | 29,925,000 | 30,075,000 | 400 | 934 | -2.340240322 | DCPS,FAM118B,FOXRED1,RPUSD4,SRPR,ST3GAL- IV,TIRAP,ENSBTAG00000048137 |
| 29 | 30,000,000 | 30,150,000 | 401 | 1039 | -1.29388537 | DCPS,KIRREL3,ST3GAL-IV,TIRAP |
| 29 | 30,075,000 | 30,225,000 | 402 | 851 | -0.515890666 | KIRREL3,ST3GAL-IV |
| 29 | 30,150,000 | 30,300,000 | 403 | 332 | -0.244775023 | KIRREL3 |
| 29 | 30,225,000 | 30,375,000 | 404 | 5 | -2.434033962 | |
| 29 | 30,300,000 | 30,450,000 | 405 | 315 | 0.421591039 | |
| 29 | 30,375,000 | 30,525,000 | 406 | 821 | -0.233795017 | |
| 29 | 30,450,000 | 30,600,000 | 407 | 895 | 0.224859363 | |
| 29 | 30,525,000 | 30,675,000 | 408 | 990 | -0.737926345 | |
| 29 | 30,600,000 | 30,750,000 | 409 | 1179 | -1.065957458 | |
| 29 | 30,675,000 | 30,825,000 | 410 | 1298 | 0.114974611 | |
| 29 | 30,750,000 | 30,900,000 | 411 | 1304 | -0.092225771 | |
| 29 | 30,825,000 | 30,975,000 | 412 | 1135 | 0.091705973 | |

| | | | | | | |
|----|------------|------------|-----|------|--------------|----------------------|
| 29 | 30,900,000 | 31,050,000 | 413 | 1159 | 0.524032941 | |
| 29 | 30,975,000 | 31,125,000 | 414 | 1093 | 0.519945052 | |
| 29 | 31,050,000 | 31,200,000 | 415 | 1163 | 0.189588879 | |
| 29 | 31,125,000 | 31,275,000 | 416 | 1279 | -0.396549825 | |
| 29 | 31,200,000 | 31,350,000 | 417 | 1286 | -1.318547495 | |
| 29 | 31,275,000 | 31,425,000 | 418 | 1539 | -0.517672189 | |
| 29 | 31,350,000 | 31,500,000 | 419 | 1526 | -0.417668247 | |
| 29 | 31,425,000 | 31,575,000 | 420 | 1515 | -0.319710481 | |
| 29 | 31,500,000 | 31,650,000 | 421 | 1878 | 0.046293948 | |
| 29 | 31,575,000 | 31,725,000 | 422 | 2284 | -1.255900558 | |
| 29 | 31,650,000 | 31,800,000 | 423 | 2349 | -0.731176037 | |
| 29 | 31,725,000 | 31,875,000 | 424 | 1934 | 0.674537601 | |
| 29 | 31,800,000 | 31,950,000 | 425 | 1613 | 0.269162591 | |
| 29 | 31,875,000 | 32,025,000 | 426 | 1668 | 0.428293139 | |
| 29 | 31,950,000 | 32,100,000 | 427 | 1464 | 0.781327524 | |
| 29 | 32,025,000 | 32,175,000 | 428 | 1068 | 1.044627008 | |
| 29 | 32,100,000 | 32,250,000 | 429 | 858 | 0.867646879 | |
| 29 | 32,175,000 | 32,325,000 | 430 | 913 | 0.147932013 | |
| 29 | 32,250,000 | 32,400,000 | 431 | 1139 | 0.83978671 | ETS1 |
| 29 | 32,325,000 | 32,475,000 | 432 | 990 | 1.046426246 | ETS1 |
| 29 | 32,400,000 | 32,550,000 | 433 | 1095 | -0.007885111 | ETS1 |
| 29 | 32,475,000 | 32,625,000 | 434 | 1072 | -0.180922241 | |
| 29 | 32,550,000 | 32,700,000 | 435 | 756 | 0.199827947 | FLI1 |
| 29 | 32,625,000 | 32,775,000 | 436 | 791 | -0.140128529 | FLI1,KCNJ1 |
| 29 | 32,700,000 | 32,850,000 | 437 | 1124 | -0.706965868 | FLI1,KCNJ1,KCNJ5 |
| 29 | 32,775,000 | 32,925,000 | 438 | 1273 | -0.547531928 | ARHGAP32,KCNJ1,KCNJ5 |
| 29 | 32,850,000 | 33,000,000 | 439 | 1039 | 0.13312612 | ARHGAP32 |
| 29 | 32,925,000 | 33,075,000 | 440 | 692 | 0.526911122 | ARHGAP32 |
| 29 | 33,000,000 | 33,150,000 | 441 | 418 | 0.702516934 | ARHGAP32 |
| 29 | 33,075,000 | 33,225,000 | 442 | 420 | 0.395035557 | |
| 29 | 33,150,000 | 33,300,000 | 443 | 548 | 0.037547355 | BARX2 |
| 29 | 33,225,000 | 33,375,000 | 444 | 714 | -0.27358339 | BARX2 |
| 29 | 33,300,000 | 33,450,000 | 445 | 785 | -0.600095345 | |
| 29 | 33,375,000 | 33,525,000 | 446 | 1081 | 0.13095535 | |
| 29 | 33,450,000 | 33,600,000 | 447 | 1446 | 0.115461137 | JAM3 |
| 29 | 33,525,000 | 33,675,000 | 448 | 1201 | 0.030070842 | JAM3 |
| 29 | 33,600,000 | 33,750,000 | 449 | 766 | 0.608335476 | IGSF9B |
| 29 | 33,675,000 | 33,825,000 | 450 | 686 | -0.15633857 | IGSF9B,SPATA19 |
| 29 | 33,750,000 | 33,900,000 | 451 | 651 | -0.698394877 | SPATA19 |
| 29 | 33,825,000 | 33,975,000 | 452 | 1011 | 0.392726724 | |
| 29 | 33,900,000 | 34,050,000 | 453 | 1551 | 0.521286616 | |
| 29 | 33,975,000 | 34,125,000 | 454 | 1414 | 0.705495815 | |
| 29 | 34,050,000 | 34,200,000 | 455 | 1434 | 0.719656833 | |
| 29 | 34,125,000 | 34,275,000 | 456 | 1679 | 0.735657155 | |
| 29 | 34,200,000 | 34,350,000 | 457 | 1229 | 0.504493256 | |
| 29 | 34,275,000 | 34,425,000 | 458 | 807 | -0.185969247 | |
| 29 | 34,350,000 | 34,500,000 | 459 | 967 | 0.755665702 | |
| 29 | 34,425,000 | 34,575,000 | 460 | 1037 | 0.563227587 | OPCML |
| 29 | 34,500,000 | 34,650,000 | 461 | 906 | 0.196683444 | OPCML |
| 29 | 34,575,000 | 34,725,000 | 462 | 984 | -0.254127024 | OPCML |
| 29 | 34,650,000 | 34,800,000 | 463 | 1066 | -0.622927978 | OPCML |
| 29 | 34,725,000 | 34,875,000 | 464 | 954 | -0.452522513 | OPCML |
| 29 | 34,800,000 | 34,950,000 | 465 | 748 | 0.382372405 | OPCML |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 34,875,000 | 35,025,000 | 466 | 909 | -0.527664037 | OPCML |
| 29 | 34,950,000 | 35,100,000 | 467 | 1340 | -0.481176544 | OPCML,ENSBTAG00000033030 |
| 29 | 35,025,000 | 35,175,000 | 468 | 1332 | 0.157830127 | NTM,OPCML,ENSBTAG00000033030 |
| 29 | 35,100,000 | 35,250,000 | 469 | 1026 | 0.342253567 | NTM |
| 29 | 35,175,000 | 35,325,000 | 470 | 1338 | -0.438612997 | NTM |
| 29 | 35,250,000 | 35,400,000 | 471 | 1294 | -0.564978824 | NTM |
| 29 | 35,325,000 | 35,475,000 | 472 | 982 | 0.314714254 | NTM |
| 29 | 35,400,000 | 35,550,000 | 473 | 1066 | 0.520921728 | NTM |
| 29 | 35,475,000 | 35,625,000 | 474 | 652 | 0.425593687 | NTM |
| 29 | 35,550,000 | 35,700,000 | 475 | 538 | 0.661803019 | NTM |
| 29 | 35,625,000 | 35,775,000 | 476 | 977 | 0.681618252 | |
| 29 | 35,700,000 | 35,850,000 | 477 | 994 | 0.308114742 | |
| 29 | 35,775,000 | 35,925,000 | 478 | 841 | -0.046158338 | |
| 29 | 35,850,000 | 36,000,000 | 479 | 688 | 0.631090333 | |
| 29 | 35,925,000 | 36,075,000 | 480 | 703 | 0.316894371 | |
| 29 | 36,000,000 | 36,150,000 | 481 | 1031 | -2.383679878 | |
| 29 | 36,075,000 | 36,225,000 | 482 | 1266 | -2.172848605 | |
| 29 | 36,150,000 | 36,300,000 | 483 | 1149 | -0.228719772 | |
| 29 | 36,225,000 | 36,375,000 | 484 | 900 | -0.600741944 | |
| 29 | 36,300,000 | 36,450,000 | 485 | 1045 | -0.229520454 | |
| 29 | 36,375,000 | 36,525,000 | 486 | 1304 | 0.624540459 | |
| 29 | 36,450,000 | 36,600,000 | 487 | 1612 | 0.623351729 | |
| 29 | 36,525,000 | 36,675,000 | 488 | 1354 | 0.56719693 | NFRKB,TMEM45B |
| 29 | 36,600,000 | 36,750,000 | 489 | 864 | 0.326642739 | NFRKB,PRDM10,TMEM45B |
| 29 | 36,675,000 | 36,825,000 | 490 | 801 | -0.283997616 | NFRKB,PRDM10,ZNF740 |
| 29 | 36,750,000 | 36,900,000 | 491 | 767 | -0.075533298 | APLP2,ZNF740 |
| 29 | 36,825,000 | 36,975,000 | 492 | 925 | 0.755176528 | APLP2,ST14,ENSBTAG00000033237 |
| 29 | 36,900,000 | 37,050,000 | 493 | 785 | 0.556313154 | APLP2,ST14,ZBTB44,ENSBTAG00000033237 |
| 29 | 36,975,000 | 37,125,000 | 494 | 542 | 0.293547718 | ADAMTS8,ZBTB44 |
| 29 | 37,050,000 | 37,200,000 | 495 | 770 | 0.411406153 | ADAMTS15,ADAMTS8 |
| 29 | 37,125,000 | 37,275,000 | 496 | 1008 | 0.58558988 | ADAMTS15 |
| 29 | 37,200,000 | 37,350,000 | 497 | 908 | 0.807566934 | |
| 29 | 37,275,000 | 37,425,000 | 498 | 624 | 1.030430344 | |
| 29 | 37,350,000 | 37,500,000 | 499 | 726 | 0.962497593 | ENSBTAG00000046647 |
| 29 | 37,425,000 | 37,575,000 | 500 | 1132 | 0.582244635 | SNX19,ENSBTAG00000046647 |
| 29 | 37,500,000 | 37,650,000 | 501 | 1229 | 0.643715038 | MS4A8B,SNX19 |
| 29 | 37,575,000 | 37,725,000 | 502 | 958 | 0.692376775 | MS4A10,MS4A15,MS4A18,MS4A8B |
| 29 | 37,650,000 | 37,800,000 | 503 | 774 | 0.868525632 | MS4A10,MS4A15,MS4A18,MS4A8B,PTGDR2,ENSBTAG00000014215 |
| 29 | 37,725,000 | 37,875,000 | 504 | 726 | 0.885686734 | MS4A10,PRPF19,PTGDR2,SLC15A3,TMEM109,TMEM132A,ENSBTAG00000014215 |
| 29 | 37,800,000 | 37,950,000 | 505 | 1029 | 0.5388174 | CD6,PRPF19,SLC15A3,TMEM109,TMEM132A |
| 29 | 37,875,000 | 38,025,000 | 506 | 1177 | 0.903865429 | CD5,CD6 |
| 29 | 37,950,000 | 38,100,000 | 507 | 1113 | 1.159716558 | CD5,VPS37C |
| 29 | 38,025,000 | 38,175,000 | 508 | 1204 | 0.84333418 | CD5,PAG10,PAG2,VPS37C |
| 29 | 38,100,000 | 38,250,000 | 509 | 1218 | 0.516220649 | PAG10,PAG12,PAG2 |
| 29 | 38,175,000 | 38,325,000 | 510 | 1320 | 0.48223578 | PAG12,ENSBTAG00000024611,ENSBTAG00000045802,ENSBTAG00000048298 |
| 29 | 38,250,000 | 38,400,000 | 511 | 1604 | 0.449150268 | ENSBTAG00000024611,ENSBTAG00000045802,ENSBTAG00000046127,ENSBTAG00000047145,ENSBTAG00000048298 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 38,325,000 | 38,475,000 | 512 | 1645 | -0.297878089 | PAG- 18,ENSBTAG00000045802,ENSBTAG00000046127,EN SBTAG00000047145 |
| 29 | 38,400,000 | 38,550,000 | 513 | 1283 | -0.618910677 | PAG-18,PAG7,ENSBTAG00000047145 |
| 29 | 38,475,000 | 38,625,000 | 514 | 1683 | 0.771216919 | PAG7,ENSBTAG00000007849,ENSBTAG00000045670 |
| 29 | 38,550,000 | 38,700,000 | 515 | 2141 | 0.969046683 | PAG- 15,PAG7,ENSBTAG00000007849,ENSBTAG000000456 70 |
| 29 | 38,625,000 | 38,775,000 | 516 | 1707 | 0.256921641 | PAG-15,ENSBTAG00000046038 |
| 29 | 38,700,000 | 38,850,000 | 517 | 1443 | 0.099497832 | PAG4,ENSBTAG00000040140,ENSBTAG00000046038 |
| 29 | 38,775,000 | 38,925,000 | 518 | 1532 | 0.541239857 | PAG4,ENSBTAG00000040140,ENSBTAG00000046497, ENSBTAG00000047989 |
| 29 | 38,850,000 | 39,000,000 | 519 | 1246 | 1.129219356 | ENSBTAG00000039045,ENSBTAG00000039970,ENSBT AG00000046497,ENSBTAG00000047989 |
| 29 | 38,925,000 | 39,075,000 | 520 | 1054 | 1.339436523 | PAG- 21,PAG20,ENSBTAG00000039045,ENSBTAG00000039 970,ENSBTAG00000047989 |
| 29 | 39,000,000 | 39,150,000 | 521 | 1662 | 1.002026463 | PAG-21,PAG20,ENSBTAG00000047758 |
| 29 | 39,075,000 | 39,225,000 | 522 | 1740 | 0.878323426 | PAG1,ENSBTAG00000047758,ENSBTAG00000048202 |
| 29 | 39,150,000 | 39,300,000 | 523 | 1557 | 1.102278503 | PAG1,PAG19,ENSBTAG00000048202 |
| 29 | 39,225,000 | 39,375,000 | 524 | 1548 | 0.78532395 | PAG19,ENSBTAG00000034244,ENSBTAG00000047419 ,ENSBTAG00000048202 |
| 29 | 39,300,000 | 39,450,000 | 525 | 1332 | -0.142580433 | ENSBTAG00000034244,ENSBTAG00000047419,ENSBT AG00000048073 |
| 29 | 39,375,000 | 39,525,000 | 526 | 1451 | -0.873374122 | MGC157408,ENSBTAG00000047419,ENSBTAG000000 48073 |
| 29 | 39,450,000 | 39,600,000 | 527 | 1494 | -0.691411929 | MGC157408,ENSBTAG00000035736,ENSBTAG000000 38918 |
| 29 | 39,525,000 | 39,675,000 | 528 | 1437 | 0.007024666 | PAG17,ENSBTAG00000035736,ENSBTAG00000038918 ,ENSBTAG00000046085 |
| 29 | 39,600,000 | 39,750,000 | 529 | 1940 | -0.354661139 | MGC157405,PAG17,ENSBTAG00000038918,ENSBTAG 00000046085,ENSBTAG00000046686 |
| 29 | 39,675,000 | 39,825,000 | 530 | 1973 | -0.993684377 | MGC157405,ENSBTAG00000038506,ENSBTAG000000 46686 |
| 29 | 39,750,000 | 39,900,000 | 531 | 1528 | -0.790618225 | PAG9,ENSBTAG00000003236,ENSBTAG00000038506, ENSBTAG00000048190 |
| 29 | 39,825,000 | 39,975,000 | 532 | 1524 | 0.317320131 | HRASLS5,PAG9,ENSBTAG00000003236,ENSBTAG0000 0048190 |
| 29 | 39,900,000 | 40,050,000 | 533 | 1287 | 0.407479206 | HRASLS5,ENSBTAG00000003236,ENSBTAG000000223 48,ENSBTAG00000047172 |
| 29 | 39,975,000 | 40,125,000 | 534 | 1075 | -0.274436213 | PAG6,ENSBTAG00000022348,ENSBTAG00000046870, ENSBTAG00000047172 |
| 29 | 40,050,000 | 40,200,000 | 535 | 1194 | -0.255442881 | PAG6,ENSBTAG00000022759,ENSBTAG00000046870 |
| 29 | 40,125,000 | 40,275,000 | 536 | 1305 | 0.608682212 | ENSBTAG00000013214,ENSBTAG00000022759 |
| 29 | 40,200,000 | 40,350,000 | 537 | 1397 | 0.297296011 | ENSBTAG00000013214,ENSBTAG00000040257 |
| 29 | 40,275,000 | 40,425,000 | 538 | 1292 | -0.413627893 | ENSBTAG00000019226,ENSBTAG00000040257 |
| 29 | 40,350,000 | 40,500,000 | 539 | 1186 | -0.157979241 | PGA,VWCE,ENSBTAG00000019226 |
| 29 | 40,425,000 | 40,575,000 | 540 | 927 | 0.472586429 | CYB561A3,DAK,DDB1,PGA,TMEM138,VWCE,ENSBTAG 00000019226 |
| 29 | 40,500,000 | 40,650,000 | 541 | 630 | 0.218463042 | CPSF7,CYB561A3,DAK,DDB1,PPP1R32,SDHAF2,TMEM 138,TMEM216,VWCE |
| 29 | 40,575,000 | 40,725,000 | 542 | 656 | 0.693221429 | CPSF7,LRR10B,PPP1R32,SDHAF2,SYT7,TMEM216 |
| 29 | 40,650,000 | 40,800,000 | 543 | 794 | 0.373169308 | LRR10B,PPP1R32,SYT7 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 40,725,000 | 40,875,000 | 544 | 910 | -0.171061445 | DAGLA |
| 29 | 40,800,000 | 40,950,000 | 545 | 719 | -0.293371796 | DAGLA,FADS1,FEN1,MYRF,TMEM258 |
| 29 | 40,875,000 | 41,025,000 | 546 | 719 | -0.027675117 | DAGLA,FADS1,FEN1,MYRF,TMEM258 |
| 29 | 40,950,000 | 41,100,000 | 547 | 906 | 0.337526688 | FADS1,FADS2,FADS3 |
| 29 | 41,025,000 | 41,175,000 | 548 | 868 | 0.293896291 | BEST1,FADS2,FADS3,FTH1,RAB3IL1 |
| 29 | 41,100,000 | 41,250,000 | 549 | 954 | -0.05449824 | BEST1,FADS3,FTH1,RAB3IL1 |
| 29 | 41,175,000 | 41,325,000 | 550 | 1200 | -0.898836466 | FTH1 |
| 29 | 41,250,000 | 41,400,000 | 551 | 1309 | -0.975023443 | SCGB1D,SCGB2A2 |
| 29 | 41,325,000 | 41,475,000 | 552 | 1048 | -0.281777389 | ASRGL1,SCGB1D,SCGB2A2 |
| 29 | 41,400,000 | 41,550,000 | 553 | 821 | -0.773193351 | ASRGL1,SCGB1A1,SCGB2A2 |
| 29 | 41,475,000 | 41,625,000 | 554 | 830 | -0.655417768 | AHNAK,EEF1G,SCGB1A1 |
| 29 | 41,550,000 | 41,700,000 | 555 | 616 | 0.163988847 | AHNAK,B3GAT3,EEF1G,EML3,GANAB,KIAA1698,METT L12,MGC134282,MTA2,ROM1,TUT1,UQCC3 |
| 29 | 41,625,000 | 41,775,000 | 556 | 759 | -0.262345178 | B3GAT3,BSCL2,EML3,GANAB,GNG3,HNRNPUL2,KIAA1 698,LRRN4CL,METTL12,MGC134282,MTA2,ROM1,TTC 9C,TUT1,UBXN1,UQCC3,ZBTB3 |
| 29 | 41,700,000 | 41,850,000 | 557 | 894 | -0.100621943 | BSCL2,GNG3,HNRNPUL2,LRRN4CL,NXF1,POLR2G,STX 5,TAF6L,TMEM179B,TMEM223,TTC9C,UBXN1,WDR74, ZBTB3 |
| 29 | 41,775,000 | 41,925,000 | 558 | 720 | 0.247155128 | CHRM1,NXF1,POLR2G,SLC3A2,STX5,TAF6L,TMEM179 B,TMEM223,WDR74 |
| 29 | 41,850,000 | 42,000,000 | 559 | 677 | 0.132181884 | CHRM1,SLC22A6,SLC3A2,ENSBTAG00000047110 |
| 29 | 41,925,000 | 42,075,000 | 560 | 793 | 0.326132284 | OAT3,SLC22A6,ENSBTAG00000000518,ENSBTAG0000 0047110 |
| 29 | 42,000,000 | 42,150,000 | 561 | 992 | 0.17461568 | OAT3,ENSBTAG00000000518,ENSBTAG00000037570 |
| 29 | 42,075,000 | 42,225,000 | 562 | 895 | 0.377594228 | ENSBTAG00000000518,ENSBTAG00000037570 |
| 29 | 42,150,000 | 42,300,000 | 563 | 790 | 0.540919294 | ENSBTAG00000014584,ENSBTAG00000037570,ENSBT AG00000038655 |
| 29 | 42,225,000 | 42,375,000 | 564 | 1106 | 0.267378508 | ENSBTAG00000014584,ENSBTAG00000038655,ENSBT AG00000039463 |
| 29 | 42,300,000 | 42,450,000 | 565 | 1428 | 0.109270055 | LGALS12,ENSBTAG00000014584,ENSBTAG000000376 45,ENSBTAG00000039463,ENSBTAG00000039511 |
| 29 | 42,375,000 | 42,525,000 | 566 | 1823 | -0.272090177 | LGALS12,ENSBTAG00000011019,ENSBTAG000000376 45,ENSBTAG00000039511 |
| 29 | 42,450,000 | 42,600,000 | 567 | 1818 | -1.074695748 | PLA2G16,ENSBTAG00000011019,ENSBTAG000000376 45 |
| 29 | 42,525,000 | 42,675,000 | 568 | 1155 | -1.305738432 | ATL3,PLA2G16,RTN3 |
| 29 | 42,600,000 | 42,750,000 | 569 | 722 | -0.013899704 | ATL3,C11orf95,PLA2G16,RTN3,ENSBTAG00000045971 |
| 29 | 42,675,000 | 42,825,000 | 570 | 661 | -0.01191634 | C11orf95,C29H11orf84,RTN3,ENSBTAG00000045971 |
| 29 | 42,750,000 | 42,900,000 | 571 | 611 | -0.202656973 | C29H11orf84,MACROD1,MARK2,OTUB1,RCOR2,RTN3 |
| 29 | 42,825,000 | 42,975,000 | 572 | 522 | -1.654384249 | MACROD1,MARK2,OTUB1,RCOR2 |
| 29 | 42,900,000 | 43,050,000 | 573 | 635 | -1.333797485 | FLRT1,MACROD1,NAT11,ENSBTAG00000006386 |
| 29 | 42,975,000 | 43,125,000 | 574 | 588 | -0.61540605 | FLRT1,MACROD1,NAT11,STIP1,ENSBTAG0000000638 6 |
| 29 | 43,050,000 | 43,200,000 | 575 | 403 | -2.578828375 | BAD,DNAJC4,FERMT3,FKBP2,FLRT1,MACROD1,NUDT 22,PLCB3,STIP1,TRPT1,VEGFB,ENSBTAG00000016551, ENSBTAG00000047265 |
| 29 | 43,125,000 | 43,275,000 | 576 | 376 | -2.628814206 | BAD,CCDC88B,DNAJC4,ESRRA,FERMT3,FKBP2,GPR13 7,KCNK4,NUDT22,PLCB3,PRDX5,RPS6KA4,TRMT112,T RPT1,VEGFB,ENSBTAG00000016551,ENSBTAG000000 47265 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 43,200,000 | 43,350,000 | 577 | 744 | 0.222893027 | BAD,CCDC88B,ESRRA,GPR137,KCNK4,PRDX5,RPS6KA4,TRMT112 |
| 29 | 43,275,000 | 43,425,000 | 578 | 948 | -0.081439829 | RPS6KA4,SLC22A11 |
| 29 | 43,350,000 | 43,500,000 | 579 | 658 | -0.577730609 | NRXN2,SLC22A11,SLC22A12 |
| 29 | 43,425,000 | 43,575,000 | 580 | 383 | 0.306947407 | NRXN2,SLC22A11,SLC22A12 |
| 29 | 43,500,000 | 43,650,000 | 581 | 309 | 0.126887346 | MAP4K2,NRXN2,PYGM,RASGRP2,SF1 |
| 29 | 43,575,000 | 43,725,000 | 582 | 337 | -0.87586133 | CDC42BPG,EHD1,MAP4K2,MEN1,NRXN2,PYGM,RASGRP2,SF1 |
| 29 | 43,650,000 | 43,800,000 | 583 | 355 | -0.837927413 | ATG2A,C11orf85,CDC42BPG,EHD1,GPHA2,MAP4K2,MEN1,PPP2R5B |
| 29 | 43,725,000 | 43,875,000 | 584 | 440 | 0.767457672 | ARL2,ATG2A,BATF2,C11orf85,GPHA2,PPP2R5B |
| 29 | 43,800,000 | 43,950,000 | 585 | 470 | 1.180210997 | ARL2,BATF2,C11orf85,CDCA5,NAALADL1,SAC3D1,SNX15 |
| 29 | 43,875,000 | 44,025,000 | 586 | 574 | 0.859671254 | CDCA5,FAU,MRPL49,NAALADL1,SAC3D1,SNX15,SYVN1,TM7SF2,VPS51,ZFPL1,ZNHIT2 |
| 29 | 43,950,000 | 44,100,000 | 587 | 751 | 0.81982591 | CAPN1,CDCA5,FAU,MRPL49,SPDYC,SYVN1,TM7SF2,VPS51,ZFPL1,ZNHIT2,ENSBTAG00000010233 |
| 29 | 44,025,000 | 44,175,000 | 588 | 997 | 0.497574771 | CAPN1,POLA2,SPDYC,ENSBTAG00000010233 |
| 29 | 44,100,000 | 44,250,000 | 589 | 1038 | -0.499544156 | CDC42EP2,DPF2,FRMD8,POLA2,SLC25A45,TIGD3,ENSBTAG00000010233 |
| 29 | 44,175,000 | 44,325,000 | 590 | 892 | -1.035416328 | CDC42EP2,DPF2,FRMD8,SLC25A45,TIGD3 |
| 29 | 44,250,000 | 44,400,000 | 591 | 760 | -0.537601876 | FRMD8,LTBP3,SCYL1 |
| 29 | 44,325,000 | 44,475,000 | 592 | 431 | -0.427677603 | EHBP1L1,KCNK7,LTBP3,MAP3K11,MGC140823,PCNXL3,SCYL1,SSSCA1 |
| 29 | 44,400,000 | 44,550,000 | 593 | 330 | 1.346126101 | EHBP1L1,KAT5,KCNK7,LTBP3,MAP3K11,MGC140823,PCNXL3,RELA,SIPA1,SSSCA1 |
| 29 | 44,475,000 | 44,625,000 | 594 | 472 | 1.127152746 | AP5B1,KAT5,OVOL1,PCNXL3,RELA,RNASEH2C,SIPA1,ENSBTAG00000046150,ENSBTAG00000047811 |
| 29 | 44,550,000 | 44,700,000 | 595 | 501 | 1.048551007 | AP5B1,C29H11orf68,CCDC85B,CFL1,CTSW,DRAP1,EFEMP2,FIBP,FOSL1,KAT5,MUS81,OVOL1,RNASEH2C,SNX32,ENSBTAG00000046150,ENSBTAG00000047811 |
| 29 | 44,625,000 | 44,775,000 | 596 | 482 | 1.294447872 | BANF1,C29H11orf68,CATSPER1,CCDC85B,CFL1,CST6,CTSW,DRAP1,EFEMP2,EIF1AD,FIBP,FOSL1,MUS81,SART1,SNX32,TSGA10IP,ENSBTAG00000046587 |
| 29 | 44,700,000 | 44,850,000 | 597 | 405 | 1.13460528 | BANF1,CATSPER1,CST6,EIF1AD,GAL3ST3,SART1,SF3B2,TSGA10IP,ENSBTAG00000046587 |
| 29 | 44,775,000 | 44,925,000 | 598 | 376 | -0.430657227 | CATSPER1,GAL3ST3,PACS1,SF3B2 |
| 29 | 44,850,000 | 45,000,000 | 599 | 413 | -1.427861359 | KLC2,PACS1,RAB1B,TMEM151A,YIF1A |
| 29 | 44,925,000 | 45,075,000 | 600 | 359 | -0.619114952 | B3GNT1,BRMS1,CD248,KLC2,PACS1,RAB1B,RIN1,SLC29A2,TMEM151A,YIF1A |
| 29 | 45,000,000 | 45,150,000 | 601 | 422 | 0.091468007 | B3GNT1,BRMS1,CD248,MRPL11,NPAS4,RIN1,SLC29A2 |
| 29 | 45,075,000 | 45,225,000 | 602 | 407 | -0.562748909 | DPP3,MRPL11,NPAS4,PELI3,ZDHHC24,ENSBTAG0000020147 |
| 29 | 45,150,000 | 45,300,000 | 603 | 395 | -1.077191756 | ACTN3,CCDC87,CCS,CTSF,DPP3,PELI3,RBM14,ZDHHC24,ENSBTAG00000020147 |
| 29 | 45,225,000 | 45,375,000 | 604 | 606 | -0.025954959 | ACTN3,CCDC87,CCS,CTSF,RBM14,RBM4,RBM4B,SPTBN2,ZDHHC24 |
| 29 | 45,300,000 | 45,450,000 | 605 | 768 | 0.232146571 | C11orf80,RBM14,RBM4,RBM4B,SPTBN2 |
| 29 | 45,375,000 | 45,525,000 | 606 | 722 | 0.313049246 | C11orf80,LRFN4,PC,RCE1,SPTBN2 |
| 29 | 45,450,000 | 45,600,000 | 607 | 861 | -4.109711018 | C11orf80,LRFN4,PC,RCE1 |
| 29 | 45,525,000 | 45,675,000 | 608 | 899 | -3.742568627 | C29H11orf86,PC,SYT12 |
| 29 | 45,600,000 | 45,750,000 | 609 | 700 | 0.269681319 | C29H11orf86,PC,RHOD,SYT12 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|--|
| 29 | 45,675,000 | 45,825,000 | 610 | 640 | 0.712917977 | KDM2A,RHOD,SYT12 |
| 29 | 45,750,000 | 45,900,000 | 611 | 391 | 0.579471654 | ADRBK1,ANKRD13D,KDM2A,POLD4,SSH3 |
| 29 | 45,825,000 | 45,975,000 | 612 | 244 | 0.033379987 | ADRBK1,ANKRD13D,CARNS1,CLCF1,CORO1B,POLD4, PTPRCAP,RAD9A,RPS6KB2,SSH3,TBC1D10C,ENSBTAG 00000012146 |
| 29 | 45,900,000 | 46,050,000 | 613 | 325 | 0.070907462 | AIP,CABP2,CABP4,CARNS1,CDK2AP2,CLCF1,CORO1B, GPR152,PITPNM1,POLD4,PTPRCAP,RAD9A,RPS6KB2,T BC1D10C,TMEM134,ENSBTAG00000012146 |
| 29 | 45,975,000 | 46,125,000 | 614 | 612 | -3.560284886 | AIP,CABP2,CABP4,CDK2AP2,CORO1B,DOC2G,GPR152, GSTP1,NDUFV1,NUDT8,PITPNM1,TMEM134,ENSBTA G00000038054 |
| 29 | 46,050,000 | 46,200,000 | 615 | 784 | -2.910324022 | ALDH3B1,ALDH3B2,DOC2G,GSTP1,NDUFV1,NUDT8,T BX10,UNC93B1,ENSBTAG00000038054 |
| 29 | 46,125,000 | 46,275,000 | 616 | 527 | -0.06959167 | ALDH3B1,ALDH3B2,CHKA,NDUFS8,NUDT8,TBX10,TCI RG1,UNC93B1 |
| 29 | 46,200,000 | 46,350,000 | 617 | 393 | -0.136768462 | ALDH3B1,CHKA,NDUFS8,SUV420H1,TCIRG1 |
| 29 | 46,275,000 | 46,425,000 | 618 | 474 | 0.074390685 | C11orf24,SUV420H1 |
| 29 | 46,350,000 | 46,500,000 | 619 | 469 | 0.872260021 | C11orf24,LRP5 |
| 29 | 46,425,000 | 46,575,000 | 620 | 713 | 1.136158652 | LRP5 |
| 29 | 46,500,000 | 46,650,000 | 621 | 762 | 0.916547685 | LRP5,SAPS3 |
| 29 | 46,575,000 | 46,725,000 | 622 | 433 | 0.437013038 | SAPS3 |
| 29 | 46,650,000 | 46,800,000 | 623 | 421 | 0.042601875 | GAL,SAPS3 |
| 29 | 46,725,000 | 46,875,000 | 624 | 712 | -1.196495233 | CPT1A,GAL |
| 29 | 46,800,000 | 46,950,000 | 625 | 708 | -1.501592208 | CPT1A,IGHMBP2,MRPL21 |
| 29 | 46,875,000 | 47,025,000 | 626 | 735 | -1.821656995 | IGHMBP2,MRGPRF,MRPL21,ENSBTAG00000016774,E NSBTAG00000046090 |
| 29 | 46,950,000 | 47,100,000 | 627 | 872 | -0.824450421 | MRGPRF,TPCN2,ENSBTAG00000016774,ENSBTAG000 00046090 |
| 29 | 47,025,000 | 47,175,000 | 628 | 788 | 0.314723475 | TPCN2 |
| 29 | 47,100,000 | 47,250,000 | 629 | 668 | -0.017070429 | |
| 29 | 47,175,000 | 47,325,000 | 630 | 710 | -0.371748884 | |
| 29 | 47,250,000 | 47,400,000 | 631 | 744 | -0.367221274 | |
| 29 | 47,325,000 | 47,475,000 | 632 | 558 | 0.633433111 | |
| 29 | 47,400,000 | 47,550,000 | 633 | 655 | -0.880057085 | CCND1 |
| 29 | 47,475,000 | 47,625,000 | 634 | 778 | -0.411477333 | CCND1,FGF19,ORAOV1 |
| 29 | 47,550,000 | 47,700,000 | 635 | 683 | 0.543309473 | CCND1,FGF19,FGF3,FGF4,ORAOV1 |
| 29 | 47,625,000 | 47,775,000 | 636 | 732 | 0.697238957 | FGF3,FGF4 |
| 29 | 47,700,000 | 47,850,000 | 637 | 973 | 0.624293024 | |
| 29 | 47,775,000 | 47,925,000 | 638 | 1162 | 0.863066228 | ANO1 |
| 29 | 47,850,000 | 48,000,000 | 639 | 910 | 1.064352926 | ANO1 |
| 29 | 47,925,000 | 48,075,000 | 640 | 721 | 1.13857459 | ANO1,FADD,ENSBTAG00000008477 |
| 29 | 48,000,000 | 48,150,000 | 641 | 728 | 1.122412293 | ANO1,FADD,PPFIA1,ENSBTAG00000008477 |
| 29 | 48,075,000 | 48,225,000 | 642 | 561 | 0.43602305 | CTTN,PPFIA1,SHANK2 |
| 29 | 48,150,000 | 48,300,000 | 643 | 824 | 0.457195933 | CTTN,PPFIA1,SHANK2 |
| 29 | 48,225,000 | 48,375,000 | 644 | 1359 | -0.071548113 | SHANK2 |
| 29 | 48,300,000 | 48,450,000 | 645 | 1338 | -0.432298639 | SHANK2 |
| 29 | 48,375,000 | 48,525,000 | 646 | 1037 | 0.039958529 | SHANK2 |
| 29 | 48,450,000 | 48,600,000 | 647 | 1243 | 0.656459918 | |
| 29 | 48,525,000 | 48,675,000 | 648 | 1744 | 0.780925381 | |
| 29 | 48,600,000 | 48,750,000 | 649 | 1903 | 0.08820381 | |
| 29 | 48,675,000 | 48,825,000 | 650 | 1520 | 0.260024287 | |
| 29 | 48,750,000 | 48,900,000 | 651 | 1237 | 0.354773641 | ENSBTAG00000004212 |
| 29 | 48,825,000 | 48,975,000 | 652 | 1089 | -0.087307719 | DHCR7,NADSYN1,ENSBTAG00000004212 |

| | | | | | | |
|----|------------|------------|-----|------|--------------|---|
| 29 | 48,900,000 | 49,050,000 | 653 | 1191 | 0.713431589 | DHCR7,MRGPRG,NADSYN1,ENSBTAG00000000776,ENSBTAG00000004212 |
| 29 | 48,975,000 | 49,125,000 | 654 | 1090 | 0.569321546 | MRGPRG,NADSYN1,OSBPL5,ENSBTAG00000000776 |
| 29 | 49,050,000 | 49,200,000 | 655 | 857 | 0.701975164 | OSBPL5,TNFRSF10A |
| 29 | 49,125,000 | 49,275,000 | 656 | 1005 | 0.488162286 | CARS,NAP1L4,OSBPL5,TNFRSF10A |
| 29 | 49,200,000 | 49,350,000 | 657 | 739 | -0.03708134 | CARS,NAP1L4,PHLDA2,SLC22A18 |
| 29 | 49,275,000 | 49,425,000 | 658 | 486 | 0.404281468 | CDKN1C,NAP1L4,PHLDA2,SLC22A18 |
| 29 | 49,350,000 | 49,500,000 | 659 | 456 | 0.080578544 | CDKN1C,SLC22A18 |
| 29 | 49,425,000 | 49,575,000 | 660 | 348 | -1.955200534 | |
| 29 | 49,500,000 | 49,650,000 | 661 | 268 | -3.014681695 | |
| 29 | 49,575,000 | 49,725,000 | 662 | 291 | -3.816609062 | KCNQ1 |
| 29 | 49,650,000 | 49,800,000 | 663 | 402 | -3.491440411 | KCNQ1,ENSBTAG00000047349 |
| 29 | 49,725,000 | 49,875,000 | 664 | 409 | -1.65481578 | CD81,TRPM5,TSSC4,ENSBTAG00000047349 |
| 29 | 49,800,000 | 49,950,000 | 665 | 463 | -0.173800427 | CD81,TRPM5,TSPAN32,TSSC4 |
| 29 | 49,875,000 | 50,025,000 | 666 | 595 | -0.125312657 | ASCL2,TSPAN32 |
| 29 | 49,950,000 | 50,100,000 | 667 | 530 | -0.099047693 | ASCL2,IGF2,INS,TH |
| 29 | 50,025,000 | 50,175,000 | 668 | 452 | 0.017635166 | IGF2,INS,TH |
| 29 | 50,100,000 | 50,250,000 | 669 | 443 | -0.071775309 | LSP1,MRPL23,TNNT3 |
| 29 | 50,175,000 | 50,325,000 | 670 | 556 | 0.213813219 | LSP1,MRPL23,SYT8,TNNI2,TNNT3 |
| 29 | 50,250,000 | 50,400,000 | 671 | 1149 | 0.19936672 | CATD,CRLF2,LSP1,SYT8,TNNI2 |
| 29 | 50,325,000 | 50,475,000 | 672 | 1552 | 0.324694843 | AP2A2,CATD,CRLF2,IFITM10 |
| 29 | 50,400,000 | 50,550,000 | 673 | 1390 | 0.569171178 | AP2A2,CHID1,IFITM10 |
| 29 | 50,475,000 | 50,625,000 | 674 | 1328 | 0.597489853 | CHID1,TSPAN4 |
| 29 | 50,550,000 | 50,700,000 | 675 | 1523 | -0.401295546 | CD151,CHID1,POLR2L,TSPAN4,ENSBTAG00000019579 |
| 29 | 50,625,000 | 50,775,000 | 676 | 1366 | -0.948556362 | CD151,CRACR2B,PIDD1,PNPLA2,POLR2L,RPLP2,ENSBTAG00000019579 |
| 29 | 50,700,000 | 50,850,000 | 677 | 1111 | 0.028580611 | CD151,CEND1,CRACR2B,PDDC1,PIDD1,PNPLA2,RPLP2,SCT,SLC25A22 |
| 29 | 50,775,000 | 50,925,000 | 678 | 1146 | 0.88995893 | CEND1,DUSP8,IRF7,MUPCDH,PDDC1,PHRF1,PIDD1,SCT,SLC25A22,TALDO1 |
| 29 | 50,850,000 | 51,000,000 | 679 | 1268 | 0.690347782 | DUSP8,EP8L2,IRF7,MOB2,MUPCDH,PDDC1,PHRF1,TALDO1 |
| 29 | 50,925,000 | 51,075,000 | 680 | 1034 | 0.194542551 | BRSK2,DUSP8,EP8L2,LMNTD2,MOB2,PHRF1,RASSF7,TMEM80 |
| 29 | 51,000,000 | 51,150,000 | 681 | 776 | -0.640074374 | BRSK2,HRAS,LMNTD2,LRRC56,MOB2,RASSF7,TMEM80 |
| 29 | 51,075,000 | 51,225,000 | 682 | 1005 | -0.741166178 | BRSK2,HRAS,LMNTD2,LRRC56,ENSBTAG00000047697 |
| 29 | 51,150,000 | 51,300,000 | 683 | 1355 | -0.343796277 | B4GALNT4,PKP3,SIGIRR,ENSBTAG00000047697 |
| 29 | 51,225,000 | 51,375,000 | 684 | 1340 | -0.19998667 | B4GALNT4,IFITM3,MUC5B,PKP3,SIGIRR,TOLLIP |
| 29 | 51,300,000 | 51,450,000 | 685 | 1195 | 0.167263701 | B4GALNT4,IFITM3,MUC5B,TOLLIP,ENSBTAG00000038262 |
| 29 | 51,375,000 | 51,505,224 | 686 | 1229 | 0.084058094 | MUC5B,ENSBTAG00000038262 |