

Supplementary Table 1: List of overlapping peaks between Dpnl-seq and N6amt1 chIP-seq.

| Chr | Position | Distance_to_TSS_nearest | Gene_ID | distance_from_nearest_m6A |
|------|-----------|-------------------------|------------|---------------------------|
| chr1 | 9847946 | -335 | Sgk3 | 78 |
| chr1 | 24177502 | -108 | Col9a1 | 121 |
| chr1 | 26687498 | -39 | 4931408C20 | 35 |
| chr1 | 26687563 | -104 | 4931408C20 | 100 |
| chr1 | 28780382 | -131 | Gm597 | 70 |
| chr1 | 30863531 | -276 | Phf3 | 370 |
| chr1 | 31176247 | -188 | Lgsn | 72 |
| chr1 | 31176351 | -84 | Lgsn | 32 |
| chr1 | 31264475 | -372 | Gm4850 | 221 |
| chr1 | 37865531 | -453 | Tsga10 | 34 |
| chr1 | 40465992 | -14 | Il18r1 | 5 |
| chr1 | 43445537 | -214 | Nck2 | 248 |
| chr1 | 43828162 | -455 | Uxs1 | 105 |
| chr1 | 46853604 | -96 | Slc39a10 | 116 |
| chr1 | 52844761 | -285 | Hibch | 439 |
| chr1 | 57774723 | -138 | Spats2l | 27 |
| chr1 | 57984919 | -421 | Sgol2 | 287 |
| chr1 | 57985241 | -99 | Sgol2 | 29 |
| chr1 | 59704704 | -104 | Snord11 | 188 |
| chr1 | 64121837 | -449 | Klf7 | 61 |
| chr1 | 67122874 | -192 | Cps1 | 132 |
| chr1 | 74361766 | -342 | Gm216 | 59 |
| chr1 | 74935618 | -20 | Ccdc108 | 209 |
| chr1 | 75210537 | -292 | Stk16 | 205 |
| chr1 | 79761786 | -18 | Wdfy1 | 137 |
| chr1 | 82316491 | -88 | Rhbdd1 | 256 |
| chr1 | 88205802 | -55 | Dnajb3 | 31 |
| chr1 | 90914899 | -201 | Mlph | 203 |
| chr1 | 90969656 | -37 | Rab17 | 105 |
| chr1 | 91459348 | -21 | Per2 | 494 |
| chr1 | 91459679 | -352 | Per2 | 163 |
| chr1 | 92933956 | -452 | Capn10 | 192 |
| chr1 | 93373496 | -400 | Ano7 | 308 |
| chr1 | 93635913 | -187 | Stk25 | 23 |
| chr1 | 93635993 | -267 | Stk25 | 103 |
| chr1 | 97662216 | -199 | D1Ertd622e | 110 |
| chr1 | 105989923 | -483 | Zcchc2 | 1 |
| chr1 | 120265452 | -173 | Steap3 | 187 |
| chr1 | 133270128 | -321 | Gm19461 | 2 |
| chr1 | 133753780 | -34 | Atp2b4 | 25 |

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|-------|-----------|------|------------|-----|
| chr1 | 135168044 | -364 | Gpr37l1 | 45 |
| chr1 | 135258959 | -488 | Elf3 | 178 |
| chr1 | 135840472 | -389 | Tnnt2 | 236 |
| chr1 | 136467801 | -157 | Kif14 | 6 |
| chr1 | 136467904 | -54 | Kif14 | 2 |
| chr1 | 146495659 | -7 | Fam5c | 52 |
| chr1 | 152625188 | -78 | Rgl1 | 102 |
| chr1 | 160043996 | -384 | 4930523C07 | 27 |
| chr1 | 161071260 | 368 | Cenpl | 180 |
| chr1 | 162866716 | -169 | Fmo1 | 198 |
| chr1 | 163313847 | -198 | Prrx1 | 87 |
| chr1 | 164935710 | -201 | Xcl1 | 126 |
| chr1 | 167349975 | -16 | Aldh9a1 | 175 |
| chr1 | 170306374 | -43 | Gm7694 | 208 |
| chr1 | 170976204 | -134 | Fcgr2b | 186 |
| chr1 | 171196556 | -289 | Pcp4l1 | 381 |
| chr1 | 171346080 | 381 | Pfdn2 | 28 |
| chr1 | 180246422 | -473 | Psen2 | 24 |
| chr1 | 180256398 | -99 | Psen2 | 355 |
| chr1 | 184732639 | -147 | Hlx | 109 |
| chr1 | 187623900 | -335 | Mir5111 | 119 |
| chr1 | 187623909 | -326 | Mir5111 | 128 |
| chr1 | 189688236 | -151 | Cenpf | 434 |
| chr1 | 190924995 | -113 | Angel2 | 65 |
| chr10 | 4433099 | 494 | 1700052N19 | 303 |
| chr10 | 10605626 | -319 | Gm5177 | 17 |
| chr10 | 19015460 | -51 | Tnfaip3 | 176 |
| chr10 | 24869635 | -351 | Med23 | 152 |
| chr10 | 28923617 | -111 | 4930519F09 | 103 |
| chr10 | 39163895 | -102 | Wisp3 | 21 |
| chr10 | 41490355 | -84 | Ppil6 | 444 |
| chr10 | 44359649 | -27 | Mir1929 | 20 |
| chr10 | 59403563 | -122 | Pla2g12b | 41 |
| chr10 | 60283988 | -473 | Psap | 174 |
| chr10 | 61031186 | -117 | 4930565A17 | 418 |
| chr10 | 61695405 | -109 | Tysnd1 | 380 |
| chr10 | 61784286 | -423 | H2afy2 | 116 |
| chr10 | 62450120 | -428 | Supv3l1 | 9 |
| chr10 | 63339178 | -144 | Sirt1 | 419 |
| chr10 | 63386075 | -488 | Dnajc12 | 103 |
| chr10 | 75060403 | -493 | Bcr | 6 |
| chr10 | 75781535 | -122 | Gstt3 | 123 |

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|-------|-----------|------|-------------|-----|
| chr10 | 75822778 | -236 | Gstt4 | 378 |
| chr10 | 76449075 | -6 | 2610028H24 | 87 |
| chr10 | 76726352 | -309 | Col6a1 | 142 |
| chr10 | 77581638 | -129 | Pttg1ip | 482 |
| chr10 | 79017294 | -30 | Olfr1351 | 201 |
| chr10 | 79614514 | -490 | C2cd4c | 108 |
| chr10 | 79688559 | -461 | Gzmm | 5 |
| chr10 | 80826326 | -330 | Oaz1 | 52 |
| chr10 | 81230949 | -171 | Atcay | 184 |
| chr10 | 81230955 | -177 | Atcay | 178 |
| chr10 | 82492684 | -67 | Gm1553 | 104 |
| chr10 | 83722562 | -303 | 1500009L16F | 6 |
| chr10 | 85185147 | -94 | Cry1 | 97 |
| chr10 | 87858744 | -312 | Igf1 | 80 |
| chr10 | 88504423 | -454 | Chpt1 | 29 |
| chr10 | 88826816 | -3 | Utp20 | 116 |
| chr10 | 91082851 | -188 | Ikbip | 273 |
| chr10 | 93831095 | -460 | Usp44 | 372 |
| chr10 | 93891372 | -171 | Metap2 | 110 |
| chr10 | 95502003 | -77 | Mrpl42 | 269 |
| chr10 | 96616717 | -284 | Btg1 | 323 |
| chr10 | 99759406 | 251 | Csl | 69 |
| chr10 | 101681175 | -312 | Mgat4c | 203 |
| chr10 | 110745008 | -457 | E2f7 | 99 |
| chr10 | 115385205 | 246 | Zfc3h1 | 9 |
| chr10 | 116176886 | -372 | Ptprr | 320 |
| chr10 | 116581912 | -402 | Cnot2 | 435 |
| chr10 | 117045057 | -284 | Lrrc10 | 469 |
| chr10 | 121626601 | -286 | Xpot | 171 |
| chr10 | 127739295 | -243 | Zbtb39 | 46 |
| chr10 | 128083606 | 299 | Atp5b | 86 |
| chr10 | 128589778 | -278 | ErbB3 | 118 |
| chr10 | 128821573 | -198 | Sarnp | 124 |
| chr10 | 129112500 | -78 | Olfr769 | 226 |
| chr11 | 4257152 | -416 | Lif | 46 |
| chr11 | 4627788 | -23 | Gm11961 | 421 |
| chr11 | 4873969 | -34 | Nipsnap1 | 490 |
| chr11 | 6559814 | -369 | Ccm2 | 187 |
| chr11 | 7214137 | -215 | Igfbp3 | 280 |
| chr11 | 16257391 | -333 | Vstm2a | 81 |
| chr11 | 16951632 | 222 | Fbxo48 | 107 |
| chr11 | 29172626 | -281 | Smek2 | 241 |

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|-------|----------|------|-------------|-----|
| chr11 | 44519037 | 73 | Rnf145 | 147 |
| chr11 | 49086709 | -346 | Ifi47 | 91 |
| chr11 | 51635915 | -20 | Rmnd5b | 38 |
| chr11 | 53120196 | -141 | Gm11186 | 404 |
| chr11 | 53456993 | -212 | Shroom1 | 64 |
| chr11 | 54819483 | -436 | LOC432562 | 492 |
| chr11 | 55204144 | -196 | Slc36a1 | 363 |
| chr11 | 55312681 | -425 | Fat2 | 132 |
| chr11 | 58456186 | -207 | Olfr30 | 105 |
| chr11 | 58535207 | -383 | Olfr330 | 218 |
| chr11 | 58683584 | -291 | Olfr320 | 243 |
| chr11 | 58802146 | -187 | Fam183b | 308 |
| chr11 | 58802198 | -239 | Fam183b | 360 |
| chr11 | 59506816 | -177 | Zkscan17 | 3 |
| chr11 | 59571766 | -29 | Olfr222 | 195 |
| chr11 | 60139906 | -176 | Rai1 | 336 |
| chr11 | 61855130 | -39 | Ulk2 | 227 |
| chr11 | 62457977 | -483 | Pigl | 185 |
| chr11 | 63131064 | -446 | Pmp22 | 21 |
| chr11 | 63131317 | -193 | Pmp22 | 232 |
| chr11 | 66168986 | -436 | Dnahc9 | 253 |
| chr11 | 68991071 | -394 | Mir3062 | 26 |
| chr11 | 69921016 | 68 | Eif5a | 398 |
| chr11 | 70213588 | -322 | Slc16a11 | 159 |
| chr11 | 70239987 | -136 | Rnasek | 132 |
| chr11 | 70540133 | -31 | Pld2 | 102 |
| chr11 | 71019370 | -241 | Mis12 | 171 |
| chr11 | 74054908 | -131 | Olfr399 | 156 |
| chr11 | 74268957 | -434 | Olfr406-ps | 142 |
| chr11 | 79255036 | -342 | Wsb1 | 357 |
| chr11 | 79711539 | -430 | Mir193 | 420 |
| chr11 | 79711546 | -423 | Mir193 | 427 |
| chr11 | 81153058 | -156 | Accn1 | 150 |
| chr11 | 82057594 | -238 | Ccl11 | 98 |
| chr11 | 82911103 | -150 | Unc45b | 50 |
| chr11 | 82911228 | -25 | Unc45b | 175 |
| chr11 | 83437484 | -210 | 1700020L24F | 158 |
| chr11 | 84525638 | -22 | 1500016L03F | 43 |
| chr11 | 84870979 | -242 | Ggnbp2 | 81 |
| chr11 | 87890166 | -273 | Olfr462 | 15 |
| chr11 | 88852001 | -499 | Akap1 | 122 |
| chr11 | 90638512 | 328 | Cox11 | 143 |

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|-------|-----------|------|------------|-----|
| chr11 | 96024347 | -198 | Gip | 206 |
| chr11 | 96024350 | -195 | Gip | 203 |
| chr11 | 96317455 | 290 | Mir10a | 259 |
| chr11 | 97702970 | -464 | Psmb3 | 17 |
| chr11 | 97782034 | -269 | Snora21 | 286 |
| chr11 | 98664043 | -308 | Gsdma | 375 |
| chr11 | 100016660 | -449 | Krt33a | 242 |
| chr11 | 100261097 | -109 | Krt17 | 424 |
| chr11 | 101226929 | -480 | Ezh1 | 197 |
| chr11 | 101665467 | -74 | Arl4d | 249 |
| chr11 | 102836223 | -73 | Higd1b | 78 |
| chr11 | 108682254 | -355 | Ccdc46 | 77 |
| chr11 | 109543225 | -486 | Arsg | 43 |
| chr11 | 114796266 | -375 | Btbd17 | 337 |
| chr11 | 115062444 | -407 | Cd300e | 35 |
| chr11 | 115306774 | -389 | Otop2 | 164 |
| chr11 | 115514380 | -11 | Hn1 | 86 |
| chr11 | 115814849 | 110 | Tsen54 | 182 |
| chr11 | 116078244 | -284 | Unc13d | 273 |
| chr11 | 116454682 | -336 | Qrich2 | 94 |
| chr11 | 116843743 | 228 | 1110005A03 | 488 |
| chr11 | 117809343 | -324 | Syngn2 | 128 |
| chr11 | 117809586 | -81 | Syngn2 | 115 |
| chr11 | 120467942 | 307 | Hgs | 109 |
| chr11 | 120551626 | -495 | Ppp1r27 | 9 |
| chr11 | 121204345 | -88 | Hexdc | 134 |
| chr11 | 121204347 | -86 | Hexdc | 132 |
| chr12 | 4874498 | -140 | Mfsd2b | 105 |
| chr12 | 11150696 | 145 | Kcns3 | 357 |
| chr12 | 28623323 | -34 | Colec11 | 379 |
| chr12 | 30883972 | -352 | Fam150b | 488 |
| chr12 | 38783537 | -174 | Etv1 | 287 |
| chr12 | 55598786 | -131 | Insm2 | 7 |
| chr12 | 55598812 | -105 | Insm2 | 33 |
| chr12 | 59066717 | -202 | Pnn | 4 |
| chr12 | 69241798 | -34 | Klhdc1 | 453 |
| chr12 | 79028847 | -316 | Plekhh1 | 218 |
| chr12 | 79208535 | -379 | Rdh12 | 135 |
| chr12 | 80133288 | -445 | 2310015A10 | 363 |
| chr12 | 84285108 | -188 | Ptgr2 | 88 |
| chr12 | 84569694 | -158 | Vsx2 | 357 |
| chr12 | 84773115 | -155 | Isca2 | 270 |

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|-------|-----------|------|-------------|-----|
| chr12 | 85219136 | -377 | Eif2b2 | 81 |
| chr12 | 85219267 | -246 | Eif2b2 | 212 |
| chr12 | 85219330 | -183 | Eif2b2 | 274 |
| chr12 | 85280845 | -411 | Acyp1 | 287 |
| chr12 | 85746510 | -29 | Mfsd7c | 51 |
| chr12 | 95692005 | -221 | Flrt2 | 220 |
| chr12 | 98268161 | -496 | Gpr65 | 18 |
| chr12 | 98268512 | -145 | Gpr65 | 31 |
| chr12 | 100187535 | -433 | Gm10433 | 101 |
| chr12 | 100276461 | -148 | Gm10432 | 115 |
| chr12 | 100725183 | -156 | Rps6ka5 | 286 |
| chr12 | 102948857 | -2 | Unc79 | 221 |
| chr12 | 104262764 | -358 | Serpina3i | 375 |
| chr12 | 108179612 | -126 | Ccnk | 120 |
| chr12 | 109594050 | -456 | Mir434 | 430 |
| chr12 | 109713298 | -183 | Mir329 | 10 |
| chr12 | 110993992 | -406 | 6030440G07 | 146 |
| chr12 | 111377749 | -32 | Cdc42bpb | 2 |
| chr12 | 111971141 | -418 | Tdrd9 | 157 |
| chr12 | 117337024 | -13 | Gm5441 | 148 |
| chr13 | 3634013 | -63 | Asb13 | 225 |
| chr13 | 4523505 | -173 | Akr1c20 | 444 |
| chr13 | 9765429 | -116 | Zmynd11 | 96 |
| chr13 | 12107051 | -107 | Ryr2 | 330 |
| chr13 | 19697826 | -67 | Txndc3 | 14 |
| chr13 | 21073713 | -415 | Olfr1370 | 10 |
| chr13 | 21783669 | -273 | Hist1h3i | 250 |
| chr13 | 23571071 | -329 | Hist1h2bg | 150 |
| chr13 | 24614214 | -396 | Fam65b | 212 |
| chr13 | 27390893 | -48 | Prl2b1 | 42 |
| chr13 | 31557709 | -461 | Foxq1 | 90 |
| chr13 | 41605883 | -333 | Tmem170b | 408 |
| chr13 | 41649459 | 16 | Gm5082 | 240 |
| chr13 | 41847851 | -236 | 9530008L14F | 209 |
| chr13 | 45389376 | -366 | Mylip | 70 |
| chr13 | 45389540 | -202 | Mylip | 94 |
| chr13 | 48274021 | -138 | A330048O09 | 454 |
| chr13 | 49607647 | -424 | Ogn | 186 |
| chr13 | 54766730 | -291 | Sncb | 97 |
| chr13 | 56482406 | -161 | Il9 | 465 |
| chr13 | 58806811 | 215 | Ntrk2 | 113 |
| chr13 | 60029570 | -141 | A530065N20 | 288 |

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|-------|-----------|------|------------|-----|
| chr13 | 60601692 | -255 | Dapk1 | 96 |
| chr13 | 61358571 | -402 | Cts7 | 145 |
| chr13 | 73937667 | -171 | Brd9 | 8 |
| chr13 | 75089919 | -68 | Pcsk1 | 337 |
| chr13 | 94057770 | -26 | Lhfpl2 | 37 |
| chr13 | 96388136 | -158 | Poc5 | 386 |
| chr13 | 98263353 | 111 | Ankra2 | 39 |
| chr13 | 98984724 | -160 | 1700024P04 | 287 |
| chr13 | 99345275 | 489 | Mrps27 | 114 |
| chr13 | 100833885 | -459 | Slc30a5 | 468 |
| chr13 | 100833920 | -494 | Slc30a5 | 433 |
| chr13 | 112993567 | -301 | Gm6320 | 428 |
| chr13 | 119488369 | 14 | 3110070M22 | 183 |
| chr14 | 13284521 | -259 | Synpr | 106 |
| chr14 | 13670765 | -111 | Sntn | 324 |
| chr14 | 17981627 | -17 | Thrb | 490 |
| chr14 | 19824069 | -247 | 2700060E02 | 39 |
| chr14 | 20269339 | -178 | Kcnk16 | 122 |
| chr14 | 20389013 | -104 | Dnajc9 | 489 |
| chr14 | 20393681 | -127 | Mrps16 | 31 |
| chr14 | 21499776 | 6 | Myst4 | 331 |
| chr14 | 24490668 | -13 | Rps24 | 123 |
| chr14 | 25143593 | -353 | 4930572O13 | 462 |
| chr14 | 30548940 | -209 | Tkt | 394 |
| chr14 | 30715164 | -3 | Sfmbt1 | 31 |
| chr14 | 30715317 | 150 | Sfmbt1 | 122 |
| chr14 | 32466186 | -278 | Chat | 6 |
| chr14 | 33953752 | -270 | Rbp3 | 444 |
| chr14 | 36935703 | -136 | Gcap14 | 266 |
| chr14 | 38898147 | -155 | 4930529F24 | 49 |
| chr14 | 41069290 | -217 | Dydc2 | 101 |
| chr14 | 45219927 | 210 | Gpr137c | 305 |
| chr14 | 50681852 | -208 | Olfr747 | 229 |
| chr14 | 52016822 | -43 | G630016D24 | 379 |
| chr14 | 52068989 | -326 | Snord58b | 201 |
| chr14 | 52104298 | -271 | Hnrnpc | 265 |
| chr14 | 52104342 | -315 | Hnrnpc | 221 |
| chr14 | 52110597 | -306 | Rpgrip1 | 41 |
| chr14 | 52495798 | -104 | Olfr1507 | 217 |
| chr14 | 55591376 | -414 | Rnf31 | 89 |
| chr14 | 55900551 | -320 | Sdr39u1 | 135 |
| chr14 | 60264840 | -365 | Mtmr6 | 159 |

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|-------|-----------|------|------------|-----|
| chr14 | 60264879 | -326 | Mtmr6 | 120 |
| chr14 | 60378240 | -46 | Fam123a | 9 |
| chr14 | 60378258 | -28 | Fam123a | 27 |
| chr14 | 61309689 | -64 | Arl11 | 255 |
| chr14 | 62837381 | -309 | Wdfy2 | 461 |
| chr14 | 63177949 | -157 | Fdft1 | 250 |
| chr14 | 63436134 | -260 | Fam167a | 50 |
| chr14 | 65593364 | -253 | Elp3 | 283 |
| chr14 | 65954035 | -292 | Scara3 | 350 |
| chr14 | 69708065 | -486 | R3hcc1 | 72 |
| chr14 | 70289689 | -241 | Ppp3cc | 134 |
| chr14 | 70289887 | -439 | Ppp3cc | 332 |
| chr14 | 70457348 | -169 | Phyhip | 88 |
| chr14 | 70628637 | 409 | Epb4.9 | 46 |
| chr14 | 75592780 | 335 | Spert | 277 |
| chr14 | 75754567 | -75 | Cog3 | 257 |
| chr14 | 79302120 | -486 | 1190002H23 | 343 |
| chr14 | 101729598 | -330 | Lmo7 | 154 |
| chr14 | 101729625 | -303 | Lmo7 | 181 |
| chr14 | 118854907 | -43 | Cldn10 | 48 |
| chr14 | 121738966 | -38 | Dock9 | 126 |
| chr14 | 122983482 | -222 | Tmtc4 | 455 |
| chr14 | 123168833 | 330 | AA536875 | 326 |
| chr15 | 7129359 | -213 | Lifr | 428 |
| chr15 | 12824878 | 63 | Drosha | 117 |
| chr15 | 34082574 | -145 | Mtdh | 133 |
| chr15 | 34237909 | -117 | Laptm4b | 374 |
| chr15 | 34674812 | -261 | 4930413F20 | 213 |
| chr15 | 34674900 | -173 | 4930413F20 | 125 |
| chr15 | 55090550 | -73 | Dscc1 | 280 |
| chr15 | 75616633 | -52 | Zfp41 | 137 |
| chr15 | 76243915 | -476 | Parp10 | 100 |
| chr15 | 76294309 | -125 | Gm10345 | 319 |
| chr15 | 78718471 | -359 | Elfn2 | 50 |
| chr15 | 79505735 | -495 | Kcnj4 | 392 |
| chr15 | 80078844 | -266 | Snord83b | 82 |
| chr15 | 80173320 | -401 | Mgat3 | 438 |
| chr15 | 80233963 | -117 | Smcr7l | 406 |
| chr15 | 82127828 | -94 | Ccdc134 | 64 |
| chr15 | 82354423 | -133 | Ndufa6 | 30 |
| chr15 | 82794641 | -397 | Cyp2d26 | 61 |
| chr15 | 83172493 | -286 | Cyb5r3 | 436 |

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|-------|-----------|------|-------------|-----|
| chr15 | 83936526 | -432 | Efcab6 | 20 |
| chr15 | 85017070 | -71 | Upk3a | 40 |
| chr15 | 85580731 | -411 | AU022754 | 122 |
| chr15 | 85735411 | -153 | Ppara | 405 |
| chr15 | 88734495 | -277 | Brd1 | 117 |
| chr15 | 89141128 | -426 | Mapk12 | 108 |
| chr15 | 89374065 | -248 | Sco2 | 161 |
| chr15 | 91050093 | -146 | Kif21a | 221 |
| chr15 | 91838324 | -2 | Muc19 | 167 |
| chr15 | 97706225 | -404 | Rpap3 | 193 |
| chr15 | 97731509 | -105 | Endou | 106 |
| chr15 | 98221476 | -421 | Olfr287 | 42 |
| chr15 | 98898902 | -363 | Dhh | 98 |
| chr15 | 98899019 | -480 | Dhh | 19 |
| chr15 | 99875480 | -25 | Lima1 | 199 |
| chr15 | 100423545 | 352 | Gm5475 | 356 |
| chr15 | 101284196 | -105 | 9430023L20F | 202 |
| chr15 | 101503546 | -270 | Gm6042 | 273 |
| chr15 | 102208047 | -220 | Zfp740 | 0 |
| chr16 | 3909115 | 106 | Cluap1 | 76 |
| chr16 | 4719308 | -250 | Nmral1 | 175 |
| chr16 | 5013709 | -157 | Rogdi | 364 |
| chr16 | 8512976 | -453 | Abat | 89 |
| chr16 | 8638083 | 376 | Pmm2 | 251 |
| chr16 | 11065896 | -402 | Snn | 438 |
| chr16 | 11909506 | -84 | Cpped1 | 30 |
| chr16 | 14291801 | -394 | Myh11 | 82 |
| chr16 | 14906631 | -15 | Efcab1 | 101 |
| chr16 | 17124252 | -111 | Mir130b | 55 |
| chr16 | 17561957 | 72 | P2rx6 | 386 |
| chr16 | 18327522 | -58 | Mir185 | 48 |
| chr16 | 20516818 | -246 | Dvl3 | 392 |
| chr16 | 29578948 | -386 | Opa1 | 171 |
| chr16 | 30064868 | -489 | Hes1 | 473 |
| chr16 | 32099594 | -208 | 1500031L02F | 108 |
| chr16 | 32247170 | -57 | Wdr53 | 74 |
| chr16 | 32247309 | 56 | Wdr53 | 12 |
| chr16 | 32735752 | -134 | Muc4 | 228 |
| chr16 | 33380352 | -423 | Zfp148 | 51 |
| chr16 | 33967500 | -498 | Umps | 328 |
| chr16 | 35509774 | -356 | 1600019K03F | 403 |
| chr16 | 37916248 | -248 | Gpr156 | 90 |

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|-------|----------|------|------------|-----|
| chr16 | 44746414 | -52 | Gtpbp8 | 187 |
| chr16 | 44943304 | -374 | Cd200r3 | 15 |
| chr16 | 50732963 | -191 | 5330426P16 | 13 |
| chr16 | 56075104 | -305 | Senp7 | 136 |
| chr16 | 56886167 | -5 | Tmem45a | 260 |
| chr16 | 58995046 | -358 | Olfr183 | 110 |
| chr16 | 59303016 | -139 | Olfr203 | 397 |
| chr16 | 76373273 | -225 | Nrip1 | 41 |
| chr16 | 89975024 | -326 | Tiam1 | 202 |
| chr16 | 92400501 | -425 | Rcan1 | 242 |
| chr16 | 93358753 | -42 | 1810053B23 | 386 |
| chr16 | 94328149 | -273 | Ripply3 | 77 |
| chr16 | 97356329 | -399 | Bace2 | 179 |
| chr17 | 5440535 | -276 | 5730437N04 | 79 |
| chr17 | 6138084 | -64 | Tulp4 | 460 |
| chr17 | 13220783 | -405 | Smok2a | 137 |
| chr17 | 15241225 | -443 | Gm5091 | 14 |
| chr17 | 17064041 | -62 | Zfp960 | 2 |
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| chr17 | 20891140 | -490 | Vmn1r231 | 16 |
| chr17 | 21733225 | -499 | Zfp229 | 282 |
| chr17 | 23600403 | -453 | Zscan10 | 352 |
| chr17 | 23601166 | 310 | Zscan10 | 247 |
| chr17 | 23601180 | 324 | Zscan10 | 261 |
| chr17 | 24169511 | -83 | Atp6v0c | 153 |
| chr17 | 24632708 | 26 | Nthl1 | 5 |
| chr17 | 24695913 | -321 | Noxo1 | 262 |
| chr17 | 24727590 | -239 | Rpl3l | 173 |
| chr17 | 24727694 | -135 | Rpl3l | 106 |
| chr17 | 24895550 | 430 | Mrps34 | 393 |
| chr17 | 24895569 | 449 | Mrps34 | 374 |
| chr17 | 25133126 | -268 | Cln7 | 97 |
| chr17 | 26022093 | -234 | Rab11fip3 | 178 |
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| chr17 | 28328220 | -251 | Rpl10a | 97 |
| chr17 | 28549253 | -234 | Gm749 | 126 |
| chr17 | 29318462 | -420 | Pi16 | 26 |
| chr17 | 30954229 | -454 | Umodl1 | 165 |
| chr17 | 32917133 | -47 | Cyp4f14 | 332 |
| chr17 | 33139919 | -237 | Morc2b | 90 |
| chr17 | 34325540 | -135 | H2-Eb2 | 91 |
| chr17 | 35649675 | -33 | Sfta2 | 145 |

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| chr17 | 37445367 | -113 | Olfr108 | 388 |
| chr17 | 37768411 | -231 | Olfr122 | 82 |
| chr17 | 37768599 | -43 | Olfr122 | 52 |
| chr17 | 38131543 | -354 | Olfr132 | 214 |
| chr17 | 38131658 | -469 | Olfr132 | 99 |
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| chr17 | 38639000 | -447 | Gm20516 | 116 |
| chr17 | 44188402 | -170 | Clic5 | 147 |
| chr17 | 45433859 | -153 | Cdc5l | 200 |
| chr17 | 46327712 | 310 | Abcc10 | 402 |
| chr17 | 46711305 | -158 | Pex6 | 412 |
| chr17 | 47611501 | -95 | Med20 | 168 |
| chr17 | 47630242 | -448 | Usp49 | 83 |
| chr17 | 48316145 | -17 | B430306N03 | 104 |
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| chr17 | 55945551 | -293 | Zfp119b | 261 |
| chr17 | 56303056 | -281 | Uhrf1 | 196 |
| chr17 | 56303563 | 226 | Uhrf1 | 102 |
| chr17 | 56512384 | 98 | Znrf4 | 11 |
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| chr17 | 71475475 | -133 | Smchd1 | 334 |
| chr17 | 74316629 | -197 | Dpy30 | 74 |
| chr17 | 75005372 | -157 | Ltbp1 | 117 |
| chr17 | 75005422 | -107 | Ltbp1 | 67 |
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| chr17 | 84973767 | -285 | Ppm1b | 212 |
| chr17 | 87025696 | 135 | Cript | 252 |
| chr17 | 89379076 | -165 | Gm4719 | 159 |
| chr17 | 94750123 | 23 | 2700099C18 | 127 |
| chr18 | 3337803 | -215 | Crem | 192 |
| chr18 | 10785385 | -61 | Mir1b | 188 |
| chr18 | 10785390 | -56 | Mir1b | 193 |
| chr18 | 10785429 | -17 | Mir1b | 232 |
| chr18 | 20665235 | -15 | Ttr | 119 |
| chr18 | 21001327 | -14 | Rnf138 | 376 |
| chr18 | 37143891 | -78 | Pcdhac2 | 287 |
| chr18 | 37806291 | -119 | Pcdhgc3 | 132 |

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| chr18 | 44027616 | -253 | Spink14 | 121 |
| chr18 | 44661355 | -310 | A930012L18 | 184 |
| chr18 | 46212609 | -3 | Trim36 | 474 |
| chr18 | 46212645 | -39 | Trim36 | 438 |
| chr18 | 46574872 | -340 | Ticam2 | 14 |
| chr18 | 46958746 | -130 | Comm10 | 33 |
| chr18 | 48045067 | -268 | Gm5506 | 9 |
| chr18 | 48045269 | -66 | Gm5506 | 193 |
| chr18 | 56925600 | -53 | 3-Mar | 60 |
| chr18 | 61044703 | -447 | Pdgfrb | 277 |
| chr18 | 63692475 | -117 | Txn1 | 331 |
| chr18 | 65023059 | -468 | Nedd4l | 144 |
| chr18 | 65023205 | -322 | Nedd4l | 2 |
| chr18 | 72351397 | -329 | Dcc | 54 |
| chr18 | 75018274 | -498 | Dym | 71 |
| chr18 | 78142593 | -475 | Slc14a1 | 84 |
| chr18 | 80364320 | -67 | Kcng2 | 51 |
| chr18 | 84088331 | 173 | Zadh2 | 165 |
| chr18 | 84934596 | -429 | Fbxo15 | 171 |
| chr19 | 4854653 | -476 | Ctsf | 170 |
| chr19 | 4878682 | -8 | Zdhhc24 | 34 |
| chr19 | 4928344 | -58 | Dpp3 | 206 |
| chr19 | 5297914 | -417 | Gal3st3 | 71 |
| chr19 | 5637342 | -148 | Rela | 75 |
| chr19 | 5637459 | -31 | Rela | 42 |
| chr19 | 6068086 | -237 | Tm7sf2 | 67 |
| chr19 | 6085501 | 404 | Cdca5 | 46 |
| chr19 | 8592811 | -371 | Slc22a8 | 10 |
| chr19 | 11871704 | -491 | Olfr1419 | 21 |
| chr19 | 12282767 | -283 | Olfr1434 | 405 |
| chr19 | 12596622 | -57 | A330040F15 | 71 |
| chr19 | 13095814 | -169 | Olfr1457 | 307 |
| chr19 | 13164957 | -59 | Olfr1461 | 197 |
| chr19 | 13234087 | -165 | Olfr1463 | 13 |
| chr19 | 15924713 | -92 | Psat1 | 296 |
| chr19 | 17393913 | -130 | Rfk | 184 |
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| chr19 | 30175711 | -294 | Gldc | 356 |

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| chr19 | 46623018 | -383 | D19Wsu162e | 355 |
| chr19 | 52922787 | -394 | AA387883 | 48 |
| chr19 | 53464953 | -158 | 5830416P10 | 364 |
| chr19 | 55099509 | -63 | Gpam | 244 |
| chr19 | 57361274 | 265 | Fam160b1 | 119 |
| chr19 | 58670187 | -178 | Pnlip | 196 |
| chr19 | 59943901 | -248 | Rab11fip2 | 256 |
| chr19 | 60791050 | -358 | Eif3a | 134 |
| chr2 | 6193226 | -25 | A230108P19 | 455 |
| chr2 | 10475539 | 239 | Mir669k | 76 |
| chr2 | 10500340 | -482 | Mir467a-4 | 217 |
| chr2 | 11172303 | -79 | Prkcq | 215 |
| chr2 | 11172347 | -35 | Prkcq | 171 |
| chr2 | 14873588 | -68 | Cacnb2 | 210 |
| chr2 | 17731553 | -486 | Nebi | 363 |
| chr2 | 24214981 | -436 | Il1f6 | 257 |
| chr2 | 24975684 | -349 | Pnpla7 | 9 |
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| chr2 | 26389461 | 113 | Pmpca | 55 |
| chr2 | 26583825 | -39 | Egfl7 | 68 |
| chr2 | 30237443 | -326 | Lrrc8a | 63 |
| chr2 | 30594639 | -405 | Cstad | 332 |
| chr2 | 30803647 | 16 | 1700001022 | 43 |
| chr2 | 30845009 | -358 | Prrx2 | 52 |
| chr2 | 31152112 | -204 | Gpr107 | 133 |
| chr2 | 31152598 | 282 | Gpr107 | 16 |
| chr2 | 32395690 | -200 | Ptges2 | 438 |
| chr2 | 35621749 | -232 | Dab2ip | 398 |
| chr2 | 51935236 | -228 | Rbm43 | 194 |
| chr2 | 52339047 | -250 | Neb | 367 |
| chr2 | 59611845 | -199 | Tanc1 | 87 |
| chr2 | 60553472 | -165 | Pla2r1 | 296 |
| chr2 | 60722704 | -102 | Itgb6 | 118 |
| chr2 | 67445617 | -385 | Xirp2 | 13 |
| chr2 | 69206202 | -13 | Spc25 | 462 |
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| chr2 | 71055324 | -420 | Dcaf17 | 441 |

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| chr2 | 76338877 | -225 | Pde11a | 112 |
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| chr2 | 79255394 | -32 | Itga4 | 209 |
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| chr2 | 84839677 | 269 | Slc43a1 | 93 |
| chr2 | 84839771 | 363 | Slc43a1 | 85 |
| chr2 | 86182490 | -382 | Olfr52 | 178 |
| chr2 | 86255785 | -95 | Olfr1049 | 0 |
| chr2 | 86538932 | -20 | Olfr1079 | 61 |
| chr2 | 87001732 | -200 | Olfr1102 | 153 |
| chr2 | 88035202 | -66 | Olfr73 | 342 |
| chr2 | 88035632 | -496 | Olfr73 | 21 |
| chr2 | 88897938 | -344 | Olfr1208 | 288 |
| chr2 | 89250102 | -411 | Olfr1228 | 169 |
| chr2 | 90253200 | -215 | Olfr142 | 178 |
| chr2 | 93452471 | -348 | Gm10804 | 253 |
| chr2 | 93822602 | -35 | Ext2 | 135 |
| chr2 | 101839214 | -235 | Prr5l | 113 |
| chr2 | 104590005 | -479 | Cstf3 | 286 |
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| chr2 | 107290372 | -217 | Kcna4 | 122 |
| chr2 | 109692466 | 30 | Bdnf | 68 |
| chr2 | 110050876 | -398 | 1700024P03 | 33 |
| chr2 | 110305837 | -113 | Bbox1 | 260 |
| chr2 | 110362883 | 109 | Fibin | 28 |
| chr2 | 110597039 | -260 | Slc5a12 | 364 |
| chr2 | 117121039 | -411 | Spred1 | 104 |
| chr2 | 119208333 | -387 | Zfyve19 | 2 |
| chr2 | 119351010 | -232 | Chac1 | 294 |
| chr2 | 121036940 | -186 | Epb4.2 | 55 |
| chr2 | 121381392 | -453 | Strc | 293 |
| chr2 | 121956423 | -30 | Ctdspl2 | 30 |
| chr2 | 122781953 | -46 | Sqrdl | 10 |
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| chr2 | 128863777 | -155 | Fbln7 | 401 |
| chr2 | 130424602 | 38 | Fam113a | 109 |
| chr2 | 130424631 | 9 | Fam113a | 80 |
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| chr2 | 148875851 | -384 | Cst3 | 471 |
| chr2 | 152490300 | -163 | Defb22 | 120 |
| chr2 | 152490461 | -324 | Defb22 | 281 |
| chr2 | 152580505 | -194 | Defb19 | 433 |
| chr2 | 152623410 | -358 | Defb25 | 499 |
| chr2 | 152686885 | -263 | Mcts2 | 181 |
| chr2 | 153031680 | -172 | Xkr7 | 196 |
| chr2 | 153241588 | 56 | Pofut1 | 371 |
| chr2 | 153780629 | -250 | Efcab8 | 58 |
| chr2 | 154551425 | -351 | 1700007I08R | 57 |
| chr2 | 154613103 | -265 | Zfp341 | 281 |
| chr2 | 155133260 | -221 | Itch | 99 |
| chr2 | 157204860 | -327 | Rbl1 | 95 |
| chr2 | 158767670 | -429 | Fam83d | 425 |
| chr2 | 162987044 | -437 | Sgk2 | 217 |
| chr2 | 163054182 | -453 | Mybl2 | 284 |
| chr2 | 163645205 | -63 | Serinc3 | 90 |
| chr2 | 164911948 | -199 | Zfp335 | 294 |
| chr2 | 165035167 | -389 | Ncoa5 | 96 |
| chr2 | 165885167 | -417 | Zmynd8 | 458 |
| chr2 | 170143044 | -370 | Zfp217 | 311 |
| chr2 | 179414716 | -220 | 4930591A17 | 201 |
| chr2 | 180024959 | -28 | Lsm14b | 266 |
| chr2 | 180042923 | 440 | Ss181 | 150 |
| chr2 | 181314670 | -171 | Stmn3 | 208 |
| chr3 | 10301361 | -179 | Fabp12 | 114 |
| chr3 | 14578562 | -109 | E2f5 | 335 |
| chr3 | 19187248 | -81 | Mtfr1 | 77 |
| chr3 | 19894485 | -386 | 4632415L05F | 111 |
| chr3 | 20155213 | -118 | Gyg | 343 |
| chr3 | 26637399 | -232 | Spata16 | 440 |
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| chr3 | 27938420 | -260 | Pld1 | 438 |
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| chr3 | 35930570 | -497 | Dcun1d1 | 221 |
| chr3 | 36552425 | -181 | Exosc9 | 136 |
| chr3 | 41563942 | 191 | Phf17 | 3 |
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| chr3 | 86084247 | -187 | Sh3d19 | 278 |
| chr3 | 86140568 | 118 | Rnu73b | 239 |
| chr3 | 87618650 | -101 | Arhgef11 | 448 |
| chr3 | 88410693 | -378 | Pmf1 | 394 |
| chr3 | 88914223 | -274 | Msto1 | 5 |
| chr3 | 90669023 | -48 | S100a8 | 267 |
| chr3 | 90695894 | -204 | S100a9 | 271 |
| chr3 | 92373438 | -477 | Sprr2g | 101 |
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| chr3 | 92687509 | -300 | Lce1d | 265 |
| chr3 | 92687550 | -341 | Lce1d | 306 |
| chr3 | 92779265 | -367 | Lce1i | 146 |
| chr3 | 92870335 | -131 | 2310050C09 | 39 |
| chr3 | 92944282 | -204 | Lce3c | 104 |
| chr3 | 93796148 | -250 | Tdpoz4 | 108 |
| chr3 | 95559196 | -481 | Hormad1 | 274 |
| chr3 | 95904883 | -245 | Car14 | 340 |
| chr3 | 96219993 | 77 | Hist2h2ab | 109 |
| chr3 | 96629734 | -194 | Rbm8a | 226 |
| chr3 | 97031960 | -456 | Gja5 | 167 |
| chr3 | 97610285 | -96 | Chd1l | 496 |
| chr3 | 97628568 | -236 | Fmo5 | 130 |
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| chr3 | 98724960 | -418 | Hsd3b2 | 207 |
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| chr3 | 105458374 | -442 | Kcnd3 | 88 |
| chr3 | 105687771 | -201 | Ddx20 | 105 |
| chr3 | 105687960 | -390 | Ddx20 | 46 |
| chr3 | 106113303 | -79 | Chia | 50 |
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| chr4 | 148152129 | 5 | Fbxo6 | 37 |
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| chr5 | 17962354 | -216 | Gnat3 | 175 |
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| chr5 | 117867074 | -45 | Nos1 | 281 |
| chr5 | 120648510 | -312 | Rasal1 | 413 |
| chr5 | 120887736 | -139 | Oas1g | 9 |
| chr5 | 121503418 | -439 | Adam1b | 258 |
| chr5 | 121660810 | 224 | Brp | 378 |
| chr5 | 122900356 | -7 | Kdm2b | 444 |
| chr5 | 130002953 | -126 | Gusb | 185 |
| chr5 | 135251305 | -259 | Fzd9 | 219 |
| chr5 | 135632375 | -279 | Rhbdd2 | 359 |
| chr5 | 135744549 | -378 | Tmem120a | 474 |
| chr5 | 135778159 | -490 | Mdh2 | 230 |

| | | | | |
|------|-----------|------|-------------|-----|
| chr5 | 139200206 | -431 | Sun1 | 129 |
| chr5 | 142960291 | -64 | Fscn1 | 290 |
| chr5 | 143403674 | -146 | Kdelr2 | 354 |
| chr5 | 144050892 | -284 | Ocm | 358 |
| chr5 | 145009724 | -89 | Kpna7 | 122 |
| chr5 | 145167571 | 347 | Cpsf4 | 44 |
| chr5 | 146844704 | -367 | Rasl11a | 41 |
| chr5 | 147188670 | -26 | Gsx1 | 159 |
| chr5 | 147957253 | -67 | Mtus2 | 347 |
| chr6 | 6865164 | -15 | Dlx6as2 | 86 |
| chr6 | 8192698 | -82 | Col28a1 | 226 |
| chr6 | 8509144 | -452 | Glcci1 | 198 |
| chr6 | 13225379 | -415 | Vwde | 59 |
| chr6 | 13871509 | -60 | 1110019D14 | 485 |
| chr6 | 17463730 | -227 | Met | 319 |
| chr6 | 18109145 | -85 | Asz1 | 209 |
| chr6 | 24857803 | -194 | Hyal5 | 43 |
| chr6 | 24955783 | 341 | Tmem229a | 62 |
| chr6 | 35330700 | -146 | 1700065J11F | 33 |
| chr6 | 39725603 | -141 | Braf | 329 |
| chr6 | 40325406 | -72 | Agk | 310 |
| chr6 | 41847154 | -395 | Pip | 292 |
| chr6 | 48448180 | -49 | Sspo | 121 |
| chr6 | 48593777 | -106 | Repin1 | 343 |
| chr6 | 51544520 | -3 | Snx10 | 446 |
| chr6 | 52164945 | -115 | Hoxa2 | 4 |
| chr6 | 52165019 | -189 | Hoxa2 | 78 |
| chr6 | 52205051 | -465 | Hoxa5 | 209 |
| chr6 | 57257796 | -353 | Vmn1r15 | 473 |
| chr6 | 57979360 | -59 | Vmn1r25 | 160 |
| chr6 | 72303206 | -42 | Sftpb | 294 |
| chr6 | 82041562 | -66 | Fam176a | 179 |
| chr6 | 83742906 | -111 | Atp6v1b1 | 339 |
| chr6 | 87672197 | -30 | Aplf | 457 |
| chr6 | 88627483 | -39 | Kbtbd12 | 335 |
| chr6 | 88842377 | -477 | Gm15612 | 158 |
| chr6 | 89870663 | -135 | Vmn1r43 | 59 |
| chr6 | 89976110 | -61 | Vmn1r46 | 133 |
| chr6 | 91515612 | -423 | Lsm3 | 27 |
| chr6 | 92535158 | -298 | Prickle2 | 363 |
| chr6 | 97060468 | -58 | Fam19a4 | 285 |
| chr6 | 97617930 | -274 | Frm4b | 3 |

| | | | | |
|------|-----------|------|------------|-----|
| chr6 | 113471022 | -433 | Il17rc | 123 |
| chr6 | 115853052 | -476 | Ift122 | 344 |
| chr6 | 117907180 | 398 | Hnrnpf | 93 |
| chr6 | 117907309 | -495 | Hnrnpf | 36 |
| chr6 | 117907434 | -370 | Hnrnpf | 161 |
| chr6 | 117907498 | -306 | Hnrnpf | 225 |
| chr6 | 119174941 | -312 | Dcp1b | 205 |
| chr6 | 119848521 | 328 | 3110021A11 | 211 |
| chr6 | 120773386 | -382 | Slc25a18 | 104 |
| chr6 | 122952527 | 12 | Clec4a3 | 48 |
| chr6 | 122990270 | -97 | Clec4a4 | 130 |
| chr6 | 124415181 | -115 | Pex5 | 15 |
| chr6 | 124415191 | -125 | Pex5 | 5 |
| chr6 | 124840392 | -118 | Gnb3 | 25 |
| chr6 | 124998590 | -20 | C530028O21 | 23 |
| chr6 | 127149540 | -86 | 9330179D12 | 52 |
| chr6 | 128582069 | -464 | BC048546 | 270 |
| chr6 | 129045866 | -35 | Klrb1f | 132 |
| chr6 | 131686120 | -377 | Tas2r104 | 344 |
| chr6 | 132315189 | -447 | Prpmp5 | 4 |
| chr6 | 132981037 | -73 | Tas2r109 | 481 |
| chr6 | 133767640 | -238 | Gm5886 | 74 |
| chr6 | 134567353 | -441 | Lrp6 | 284 |
| chr6 | 134898057 | 96 | 2810454H06 | 88 |
| chr6 | 137170279 | 216 | Rerg | 237 |
| chr6 | 140041611 | 86 | Capza3 | 92 |
| chr6 | 140622717 | 54 | Aebp2 | 38 |
| chr6 | 141340151 | -402 | Gm10400 | 123 |
| chr6 | 143166821 | -409 | Etnk1 | 41 |
| chr6 | 145250568 | 16 | Gm15706 | 195 |
| chr6 | 148444412 | -61 | Tmtc1 | 24 |
| chr7 | 3220340 | -3 | Mir293 | 422 |
| chr7 | 4273804 | -339 | Pira6 | 27 |
| chr7 | 5015669 | 161 | Zfp524 | 276 |
| chr7 | 6363198 | -110 | Zfp78 | 302 |
| chr7 | 7171236 | -117 | Zfp418 | 36 |
| chr7 | 12880848 | -330 | Zfp128 | 186 |
| chr7 | 13623874 | -93 | Sult2a5 | 191 |
| chr7 | 16676058 | -354 | Ceacam15 | 421 |
| chr7 | 18987300 | -224 | Nanos2 | 123 |
| chr7 | 24369859 | -404 | Kcnn4 | 352 |
| chr7 | 24636490 | -80 | Lypd3 | 394 |

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|------|-----------|------|-------------|-----|
| chr7 | 24903284 | 298 | Arhgef1 | 202 |
| chr7 | 27674435 | -226 | C030039L03F | 193 |
| chr7 | 28071023 | -213 | Fcgbp | 65 |
| chr7 | 28129392 | -74 | 9530053A07 | 125 |
| chr7 | 28312255 | -210 | Timm50 | 149 |
| chr7 | 28437864 | 417 | Gmfg | 302 |
| chr7 | 29170571 | 181 | Ggn | 153 |
| chr7 | 29180978 | -306 | Psm8 | 50 |
| chr7 | 29282254 | -278 | Spint2 | 199 |
| chr7 | 29282285 | -309 | Spint2 | 168 |
| chr7 | 29815882 | -190 | Zfp790 | 330 |
| chr7 | 30169692 | -230 | Gm5113 | 92 |
| chr7 | 30184120 | -51 | Cox7a1 | 201 |
| chr7 | 30493540 | -118 | Prodh2 | 99 |
| chr7 | 34021209 | -358 | Abpa | 175 |
| chr7 | 34021228 | -339 | Abpa | 156 |
| chr7 | 34169027 | -499 | Uba2 | 83 |
| chr7 | 38183164 | -53 | 1600014C10 | 203 |
| chr7 | 39517620 | -146 | Zfp619 | 227 |
| chr7 | 44748881 | 252 | Vrk3 | 206 |
| chr7 | 45717572 | -499 | Rpl18 | 104 |
| chr7 | 45928307 | -91 | Ccdc114 | 144 |
| chr7 | 49778308 | -50 | Prmt3 | 84 |
| chr7 | 55962325 | -206 | A230056P14 | 254 |
| chr7 | 62376510 | -469 | Magel2 | 86 |
| chr7 | 75308273 | -423 | 1500012K07 | 3 |
| chr7 | 75308288 | -408 | 1500012K07 | 18 |
| chr7 | 78895920 | -7 | Aen | 53 |
| chr7 | 79387090 | -64 | Rlbp1 | 475 |
| chr7 | 79504821 | -443 | Mir9-3 | 65 |
| chr7 | 80024684 | -130 | Zfp710 | 175 |
| chr7 | 82335580 | -114 | Adamts13 | 184 |
| chr7 | 83584838 | -93 | Tmc3 | 5 |
| chr7 | 84528906 | -48 | Gm2115 | 382 |
| chr7 | 85961752 | -271 | Vmn2r74 | 116 |
| chr7 | 86172204 | -481 | Vmn2r75 | 166 |
| chr7 | 89338959 | -173 | Tmem135 | 492 |
| chr7 | 92062265 | -129 | Dlg2 | 39 |
| chr7 | 99766844 | -320 | Olfr521 | 25 |
| chr7 | 100882756 | -348 | Mir3102 | 395 |
| chr7 | 101450305 | -215 | Pde2a | 465 |
| chr7 | 101556300 | -499 | Art2a-ps | 91 |

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|------|-----------|------|-------------|-----|
| chr7 | 101921074 | -301 | Lrrc51 | 24 |
| chr7 | 103469977 | -64 | Olfr608 | 164 |
| chr7 | 103565627 | -351 | Olfr616 | 62 |
| chr7 | 103565682 | -406 | Olfr616 | 117 |
| chr7 | 103565702 | -426 | Olfr616 | 137 |
| chr7 | 103603292 | -297 | Olfr619 | 427 |
| chr7 | 105338127 | -414 | Olfr691 | 174 |
| chr7 | 105338190 | -477 | Olfr691 | 132 |
| chr7 | 106689923 | -195 | Olfr694 | 185 |
| chr7 | 106886938 | -124 | Olfr706 | 186 |
| chr7 | 107814371 | -215 | Olfr467 | 26 |
| chr7 | 108565983 | -191 | Olfr504 | 240 |
| chr7 | 109083535 | -212 | Ric3 | 235 |
| chr7 | 122219205 | -291 | 2010110P09 | 144 |
| chr7 | 126792914 | -444 | Ppp4c | 149 |
| chr7 | 126800750 | -304 | Aldoa | 69 |
| chr7 | 126831922 | -427 | 4930451I11R | 372 |
| chr7 | 127052213 | -237 | Zg16 | 164 |
| chr7 | 127726099 | -484 | Ctf2 | 106 |
| chr7 | 127947035 | -311 | Prss36 | 434 |
| chr7 | 128298168 | -38 | BC017158 | 194 |
| chr7 | 134938745 | -316 | Fam196a | 260 |
| chr7 | 137437607 | -41 | Glr3 | 33 |
| chr7 | 138845959 | -427 | Ppp2r2d | 27 |
| chr7 | 139616400 | -72 | E030019B06 | 179 |
| chr7 | 140847867 | -49 | Odf3 | 139 |
| chr7 | 140967806 | -270 | Ifitm1 | 293 |
| chr7 | 141434761 | -168 | Slc25a22 | 54 |
| chr7 | 141448018 | 368 | Rplp2 | 0 |
| chr7 | 141448082 | 432 | Rplp2 | 21 |
| chr7 | 141991901 | -278 | Mir3104 | 339 |
| chr7 | 142680011 | -304 | Ins2 | 315 |
| chr7 | 142900319 | -354 | Th | 155 |
| chr8 | 13404730 | -351 | Grk1 | 219 |
| chr8 | 13785519 | -96 | Upf3a | 459 |
| chr8 | 19210054 | -408 | Defa-ps12 | 35 |
| chr8 | 19210105 | -357 | Defa-ps12 | 17 |
| chr8 | 19300345 | -332 | Defa-ps13 | 316 |
| chr8 | 22186216 | -398 | Ckap2 | 217 |
| chr8 | 25602057 | -249 | Whsc111 | 314 |
| chr8 | 36952479 | -38 | Dlc1 | 149 |
| chr8 | 41827255 | -12 | 2810404M03 | 207 |

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|------|-----------|------|-------------|-----|
| chr8 | 46551937 | -132 | Mlf1ip | 171 |
| chr8 | 47675239 | -81 | Ing2 | 290 |
| chr8 | 47714175 | -245 | Cdkn2aip | 313 |
| chr8 | 47714358 | -428 | Cdkn2aip | 130 |
| chr8 | 48674817 | -128 | Odz3 | 328 |
| chr8 | 54724796 | -429 | Wdr17 | 304 |
| chr8 | 56294325 | -227 | Hpgd | 90 |
| chr8 | 61487465 | -269 | Cbr4 | 357 |
| chr8 | 69716723 | 178 | Zfp869 | 483 |
| chr8 | 70042334 | -479 | Sugp1 | 10 |
| chr8 | 70152508 | -270 | Mef2b | 94 |
| chr8 | 70234486 | -65 | Armc6 | 433 |
| chr8 | 70234852 | -431 | Armc6 | 67 |
| chr8 | 70673033 | -198 | Lsm4 | 179 |
| chr8 | 70754629 | -50 | Rab3a | 340 |
| chr8 | 72723109 | -179 | Sin3b | 300 |
| chr8 | 76900383 | -211 | Gm10649 | 117 |
| chr8 | 82402699 | -114 | Il15 | 2 |
| chr8 | 83389747 | -144 | Clgn | 175 |
| chr8 | 83458409 | -19 | Scoc | 81 |
| chr8 | 83566655 | -103 | Ndufb7 | 305 |
| chr8 | 83699331 | -153 | Pkn1 | 246 |
| chr8 | 84840742 | -102 | Rad23a | 52 |
| chr8 | 85059899 | -220 | Fbxw9 | 233 |
| chr8 | 85299362 | -270 | Orc6 | 11 |
| chr8 | 93197889 | -86 | Ces1d | 446 |
| chr8 | 94771834 | -346 | Cx3cl1 | 74 |
| chr8 | 94857206 | -244 | Polr2c | 63 |
| chr8 | 104293643 | -463 | Cmtm2a | 66 |
| chr8 | 105707857 | -446 | 4933405L10P | 53 |
| chr8 | 105708163 | -140 | 4933405L10P | 253 |
| chr8 | 105893114 | -456 | Nrn1l | 35 |
| chr8 | 107293107 | -363 | Nfat5 | 317 |
| chr8 | 107293294 | -176 | Nfat5 | 455 |
| chr8 | 109962585 | -381 | Marveld3 | 7 |
| chr8 | 110846642 | -382 | Cog4 | 108 |
| chr8 | 111300559 | -338 | Rfwd3 | 278 |
| chr8 | 115707027 | -134 | Maf | 152 |
| chr8 | 117498215 | -76 | Plcg2 | 99 |
| chr8 | 118283593 | -162 | Cdh13 | 130 |
| chr8 | 122376267 | -349 | Zc3h18 | 150 |
| chr8 | 122433099 | -160 | Cyba | 164 |

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|------|-----------|------|--------------|-----|
| chr8 | 123117079 | -295 | Cpne7 | 64 |
| chr9 | 7502051 | -309 | Mmp10 | 315 |
| chr9 | 13749160 | -21 | Mtmr2 | 236 |
| chr9 | 15302036 | -430 | 4931406C07 | 170 |
| chr9 | 19338250 | -209 | Olfr845 | 210 |
| chr9 | 20171738 | -170 | Olfr870 | 74 |
| chr9 | 21092024 | -17 | Raver1-fdx1l | 272 |
| chr9 | 21496588 | -25 | Mir199a-1 | 41 |
| chr9 | 22003423 | 388 | Prkcsh | 222 |
| chr9 | 22307750 | -113 | Zfp810 | 107 |
| chr9 | 24097939 | -79 | Npsr1 | 27 |
| chr9 | 24625083 | -102 | Cypt4 | 393 |
| chr9 | 32223782 | -467 | Arhgap32 | 383 |
| chr9 | 35570304 | -236 | Hyls1 | 310 |
| chr9 | 35844322 | -173 | 9230110F15F | 452 |
| chr9 | 37552821 | -77 | Nrgn | 444 |
| chr9 | 37854798 | -22 | Olfr877 | 94 |
| chr9 | 38647943 | -422 | Olfr915 | 174 |
| chr9 | 39127951 | -216 | Olfr27 | 294 |
| chr9 | 39128060 | -107 | Olfr27 | 185 |
| chr9 | 39494389 | -402 | Olfr44 | 196 |
| chr9 | 39551209 | -341 | Olfr958 | 81 |
| chr9 | 40964287 | -176 | 4931429I11R | 279 |
| chr9 | 41376184 | -377 | 3110039I08R | 282 |
| chr9 | 43259496 | -383 | D630033O11 | 334 |
| chr9 | 45936461 | -404 | Tagln | 232 |
| chr9 | 45936463 | -406 | Tagln | 230 |
| chr9 | 48341340 | -443 | Fam55b | 62 |
| chr9 | 49427038 | -18 | Ankk1 | 146 |
| chr9 | 54301800 | -231 | 1700104A03 | 167 |
| chr9 | 54301909 | -340 | 1700104A03 | 276 |
| chr9 | 59036533 | -93 | Neo1 | 202 |
| chr9 | 59578266 | -71 | Celf6 | 399 |
| chr9 | 59655933 | -435 | Pkm2 | 295 |
| chr9 | 59751555 | 381 | Myo9a | 128 |
| chr9 | 59950879 | -415 | Gm7616 | 284 |
| chr9 | 61294180 | -372 | B930092H01 | 158 |
| chr9 | 62026962 | -173 | Paqr5 | 127 |
| chr9 | 64281229 | -378 | Tipin | 222 |
| chr9 | 64341025 | 231 | Dis3l | 45 |
| chr9 | 65214230 | -460 | Parp16 | 39 |
| chr9 | 67044022 | -152 | Tpm1 | 59 |

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|------|-----------|------|-------------|-----|
| chr9 | 71485561 | 421 | Polr2m | 53 |
| chr9 | 72111983 | -165 | Tcf12 | 89 |
| chr9 | 72985462 | -89 | Ccpg1 | 65 |
| chr9 | 73039785 | 67 | 2310009A05 | 308 |
| chr9 | 73039832 | 114 | 2310009A05 | 261 |
| chr9 | 74953017 | -36 | BC031353 | 408 |
| chr9 | 75441478 | -46 | Leo1 | 300 |
| chr9 | 79978339 | -458 | Filip1 | 259 |
| chr9 | 83806415 | -111 | Elovl4 | 370 |
| chr9 | 83806589 | -285 | Elovl4 | 196 |
| chr9 | 87021870 | -159 | Cyb5r4 | 39 |
| chr9 | 87021874 | -155 | Cyb5r4 | 43 |
| chr9 | 92309321 | -56 | 1700057G04 | 68 |
| chr9 | 98422597 | -364 | Rbp1 | 162 |
| chr9 | 99875687 | 482 | Sox14 | 172 |
| chr9 | 100546196 | -144 | Nck1 | 312 |
| chr9 | 103304924 | -403 | Topbp1 | 77 |
| chr9 | 103423317 | -261 | 5830418P13 | 120 |
| chr9 | 105400450 | -338 | Aste1 | 192 |
| chr9 | 105400468 | -320 | Aste1 | 210 |
| chr9 | 105960842 | -200 | Col6a5 | 272 |
| chr9 | 106158411 | -274 | Glyctk | 256 |
| chr9 | 106449109 | 469 | Abhd14b | 53 |
| chr9 | 107568851 | -312 | Hyal2 | 135 |
| chr9 | 107667522 | -124 | Slc38a3 | 81 |
| chr9 | 108296593 | -329 | Amt | 118 |
| chr9 | 109931600 | -174 | Mtap4 | 362 |
| chr9 | 111272213 | 368 | Epm2aip1 | 370 |
| chr9 | 112217499 | -149 | Arpp21 | 58 |
| chr9 | 114730750 | -453 | Cmtm6 | 220 |
| chr9 | 119052325 | -453 | Vill | 146 |
| chr9 | 120092103 | -30 | Ccr8 | 179 |
| chr9 | 123113569 | 338 | Exosc7 | 7 |
| chr9 | 124423049 | -207 | 4930526I15R | 428 |
| | | | | |

Supplementary Table 2: Primers and antibodies list:

| qPCR primers for gene expression | | | |
|--|------------------------|-----------|----------------|
| N6amt1 LP | GAAGGGGAAAGTAGACCTGCT | | |
| N6amt1 RP | TCTTCAGGCGGAGTCACTACA | | |
| N6amt2 LP | CAGTGGTTCGACACTTTGT | | |
| N6amt2 RP | CTGGGGTTGACGGATTGCTT | | |
| B-actin LP | GGCTGTATTCCCCTCCATCG | | |
| B-actin RP | CCAGTTGGTAACAATGCCATGT | | |
| BDNF exon4 LP | GTGGACTCCCACCCACTTT | | |
| BDNF exon 4 RP | TATTACCTCCGCCATGCAAT | | |
| Rab3a LP | GTGGGCAAACCTCGTTCCT | | |
| Rab3a RP | TCCTCTTGTCGTTGCGGTAGA | | |
| BDNF Exon 1 LP | GCCGGCTGGTGCAGAAAAGC | | |
| BDNF Exon 2 RP | GCACGCCGATCCTTTGCCCA | | |
| qPCR primers for chIP | | | |
| BDNF proximal GATC LP | GTGGACTCCCACCCACTTT | | |
| BDNF proximal GATC RP | ATTGCATGGCGGAGGTAATA | | |
| BDNF distal GATC LP | GTTTAACAAAGCAGCAATCCA | | |
| BDNF distal GATC RP | AGTGGTCTTTGGACCGTTTTT | | |
| Rab3a GATC LP | GGCGGGAGGATCAAGAGTTC | | |
| Rab3a GATC RP | TGAGACGTGAAGCACTCAGG | | |
| BDNF p1 GATC LP | TAGTGGGAAGTGTAGTGGCC | | |
| BDNF p1 GATC RP | TGTAGGCTAGGAGGGGAAGA | | |
| shRNA or scrambled control sequence | | | |
| N6amt1 shRNA scrambled control | GCACATTCTCTGATTAGTTAT | | |
| N6amt1 shRNA | TGTTCTACTTAGTTACCGTAA | | |
| N6amt2 shRNA scrambled control | GCATCTGACAGGCTTAACCT | | |
| N6amt2 shRNA | CCGCTGTTACACGAACTATG | | |
| List of Antibodies | | | |
| Name | HOST | Cat# | Company |
| H4K4me3 | rabbit | 39915 | active motif |
| YY1 | rabbit | ab38422 | Abcam |
| Pol II | rabbit | sc-899X | Santa Cruz |
| m6dA | rabbit | 61495 | active motif |
| N6amt1 | rabbit | SC-83304 | Santa Cruz |
| N6amt2 | mouse | SC-390240 | Santa Cruz |
| IgG | Rabbit | 29293 | Cell signaling |
| IgG | mouse | SC-2025 | Santa Cruz |
| IgG | mouse | 103533 | active motif |
| Beta actin | mouse | SC-69879 | Santa Cruz |

| | | | |
|--------------|--------|---------------|------------|
| Beta tubulin | mouse | SC-55529 | Santa Cruz |
| NeuN-488 | Rabbit | Ab190195 | Abcam |
| Arc-647 | Rabbit | BS-0385R-A647 | Bioss |