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Supplemental Data

Genomic DNA Methylation Signatures Enable Concurrent Diagnosis and Clinical Genetic Variant Classification in Neurodevelopmental Syndromes

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Table S1 - Characteristics of the patient cohort used in the study

| Disease | Id | Sex | Age | Gene | Mutation |
|----------------|-----------|------------|------------|-------------|--|
| ATRX | MS0564 | m | 6.3 | <i>ATRX</i> | c.6254G>A; p.R2085H |
| ATRX | MS0565 | m | 18 | <i>ATRX</i> | c.736T>C; p.R246C |
| ATRX | MS0566 | m | 1.4 | <i>ATRX</i> | c.6593A>G; p.H2198R |
| ATRX | MS0568 | m | 18.5 | <i>ATRX</i> | c.758T>C; p.L253S |
| ATRX | MS0569 | m | | <i>ATRX</i> | c.109C>T; p.R37X |
| ATRX | MS0570 | m | 21 | <i>ATRX</i> | c.4817G>A; p.S1606N |
| ATRX | MS0571 | m | | <i>ATRX</i> | c.865T>C; p.C220R |
| ATRX | MS0572 | m | 0.7 | <i>ATRX</i> | c.5786A>G; p.K1929R |
| ATRX | MS0573 | m | 18 | <i>ATRX</i> | c.952G>T; p.G249C |
| ATRX | MS0574 | m | 14 | <i>ATRX</i> | c.730A>C; p.I244L |
| ATRX | MS0589 | m | 4.6 | <i>ATRX</i> | c.7156C>T; p.R2386X |
| ATRX | MS0591 | m | 4.6 | <i>ATRX</i> | c.536A>G, p.N179S |
| ATRX | MS0593 | m | 4.4 | <i>ATRX</i> | deletion of exon 207 |
| ATRX | MS0594 | m | | <i>ATRX</i> | c.109C>T; p.R37X |
| ATRX | MS0595 | m | 27 | <i>ATRX</i> | c.7366_7367 InsA; p.M2456N fs X42 |
| ATRX | MS0596 | m | 14.5 | <i>ATRX</i> | c.109C>T; p.R37X |
| ATRX | MS0597 | m | 2.5 | <i>ATRX</i> | c.736C>T; P.R246C |
| ATRX | MS0598 | m | 17.5 | <i>ATRX</i> | c.109C>T; p.R37X |
| ATRX | MS0599 | m | 14 | <i>ATRX</i> | c.109C>T; p.R37X |
| CHARGE | CHD7-1 | f | 4 | <i>CHD7</i> | c.7282C>T (p.Arg2428*) |
| CHARGE | CHD7-10 | f | 0.02 | <i>CHD7</i> | c.2905_2906del (p.Arg969Glyfs*25) |
| CHARGE | CHD7-11 | m | 12 | <i>CHD7</i> | c.7636G>T (p.Glu2546*) |
| CHARGE | CHD7-12 | m | 19 | <i>CHD7</i> | c.361delC (p.Gly121Valfs*90) |
| CHARGE | CHD7-13 | m | 19 | <i>CHD7</i> | c.2504_2508delATCTT (p.Arg835Serfs*14) |
| CHARGE | CHD7-14 | m | 4 | <i>CHD7</i> | c.7717-7720del (p.Gln2537*) |
| CHARGE | CHD7-15 | m | 11 | <i>CHD7</i> | c.5458C>T (p.Arg1820*) |
| CHARGE | CHD7-16 | m | 7 | <i>CHD7</i> | exon 1 deletion |

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|--------|---------|---|----|------|--|
| CHARGE | CHD7-17 | m | 15 | CHD7 | c.5405-17G>A |
| CHARGE | CHD7-18 | f | 10 | CHD7 | c.5405-7G>A |
| CHARGE | CHD7-19 | f | 4 | CHD7 | c.2097-1G>A |
| CHARGE | CHD7-2 | m | 6 | CHD7 | c.3526C>T (p.Gln1176*) |
| CHARGE | CHD7-3 | f | 14 | CHD7 | c.934C>T (p.Arg312*) |
| CHARGE | CHD7-34 | m | | CHD7 | c.5097dupA (p.Ala1700Serfs*37) |
| CHARGE | CHD7-36 | m | | CHD7 | c.799G>T (p.Glu267*) |
| CHARGE | CHD7-4 | m | 13 | CHD7 | c562C>T (p.Gly188*) |
| CHARGE | CHD7-40 | m | | CHD7 | c.1312C>T (p.Gln438*) |
| CHARGE | CHD7-41 | m | | CHD7 | c.6322G>A (p.Gly2108Arg) |
| CHARGE | CHD7-46 | f | | CHD7 | c.5050G>A (p.Gly1684Ser) |
| CHARGE | CHD7-47 | f | | CHD7 | c.5210+3A>G |
| CHARGE | CHD7-5 | m | 18 | CHD7 | c.1327delATGGG (p.Met443Asnfs*130) |
| CHARGE | CHD7-51 | f | | CHD7 | c.4087delC (p.Leu1363Serfs*9) |
| CHARGE | CHD7-52 | m | | CHD7 | c.2498+1G>T |
| CHARGE | CHD7-53 | f | | CHD7 | c.1918delG (p.Gly640Lysfs*71) |
| CHARGE | CHD7-55 | f | | CHD7 | c.604 C>T (p.Gln202*) |
| CHARGE | CHD7-56 | m | | CHD7 | c.4393C>T (p.Arg1465*) |
| CHARGE | CHD7-58 | f | | CHD7 | c.5029C>T (p.Arg1677*) |
| CHARGE | CHD7-6 | m | 24 | CHD7 | c.2504_2508delATCTT (p.Tyr835Serfs*14) |
| CHARGE | CHD7-60 | m | | CHD7 | c.3177T>G (p.Tyr1059*) |
| CHARGE | CHD7-61 | m | | CHD7 | c.2839C>T (p.Arg947*) |
| CHARGE | CHD7-63 | m | | CHD7 | c.4361_4362delAG (p.Gln1454Profs*21) |
| CHARGE | CHD7-64 | f | | CHD7 | c.2362C>T (p.Gln788*) |
| CHARGE | CHD7-68 | f | | CHD7 | c.8507delC (p.Pro2836Argfs*53) |
| CHARGE | CHD7-69 | f | | CHD7 | c.3655C>T (p.Arg1219*) |
| CHARGE | CHD7-7 | m | 3 | CHD7 | c.1990G>T (p.Glu664*) |
| CHARGE | CHD7-71 | f | | CHD7 | c.1141_1142delAT (p.Met381Alafs*23) |
| CHARGE | CHD7-72 | m | | CHD7 | c.3082A>G (p.Ile1028Val) |
| CHARGE | CHD7-8 | f | 6 | CHD7 | c.3377dupT (p.Leu1126Phefs*46) |

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|--------|--------|---|-------|-------------|--|
| CHARGE | CHD7-9 | m | 9 | <i>CHD7</i> | c.2585delA (p.Leu862Serfs*26) |
| CHARGE | MS0979 | f | 0.5 | <i>CHD7</i> | c.7252C>T, p.R2418X |
| CHARGE | MS0982 | m | 0.8 | <i>CHD7</i> | c.3655C>T, p.R1219X |
| CHARGE | MS0983 | f | 0.1 | <i>CHD7</i> | c.7282C>T, p.R2428X |
| CHARGE | MS0984 | f | 0.005 | <i>CHD7</i> | c.959_960delAG |
| CHARGE | MS0985 | m | 0.2 | <i>CHD7</i> | c.5607+1G>A |
| CHARGE | MS0987 | m | 0.001 | <i>CHD7</i> | c.4517dupG |
| CHARGE | MS0989 | f | 1.1 | <i>CHD7</i> | c.6716delA |
| CHARGE | MS0991 | f | 15.4 | <i>CHD7</i> | c.3654C>G, p.Y1218X |
| CHARGE | MS0992 | m | 2.1 | <i>CHD7</i> | c.3640C>T, p.Q1214X |
| CHARGE | MS0995 | m | 0.1 | <i>CHD7</i> | c.1972G>T, p.E658X |
| CHARGE | MS0996 | f | 3.2 | <i>CHD7</i> | c.3778+1G>A |
| CHARGE | MS1002 | m | 13.5 | <i>CHD7</i> | c.2464G>T, p.E822X |
| CHARGE | MS1003 | f | 0.8 | <i>CHD7</i> | c.7957C>T, p.R2653X |
| CHARGE | MS1004 | m | 24.7 | <i>CHD7</i> | c.4393C>T, p.R1465X |
| CHARGE | MS1005 | f | 0.01 | <i>CHD7</i> | c.1480C>T, p.R494X |
| CHARGE | MS1007 | m | 0.003 | <i>CHD7</i> | c.559C>T, p.Q187X |
| CHARGE | MS1011 | f | 1.5 | <i>CHD7</i> | c.4015C>T, p.R1339X |
| CHARGE | MS1012 | m | 0.01 | <i>CHD7</i> | c.2049delG |
| CHARGE | MS1013 | f | 3.5 | <i>CHD7</i> | c.6217C>T, p.Q2073X |
| CHARGE | MS1014 | m | 0.01 | <i>CHD7</i> | c.5050+1G>A |
| CHARGE | MS1015 | m | 0.7 | <i>CHD7</i> | c.5405-17G>A, abnormal splicing confirmed by RNA-Seq |
| CHARGE | MS1016 | m | 17.5 | <i>CHD7</i> | c.7047C>A, p.Y2349X |
| CHARGE | MS1019 | f | 0.01 | <i>CHD7</i> | c.7252C>T, p.R2418X |
| CHARGE | MS1021 | f | 8.7 | <i>CHD7</i> | c.5627C>G, p.S1876X |
| CHARGE | MS1022 | m | 0.01 | <i>CHD7</i> | c.1924_1931del8 |
| CHARGE | MS1023 | m | 0.5 | <i>CHD7</i> | c.7879C>T, p.R2627X |
| CHARGE | MS1024 | m | 0.001 | <i>CHD7</i> | c.6044delT |
| CHARGE | MS1027 | f | 0.3 | <i>CHD7</i> | c.3339delG |
| CHARGE | MS1029 | m | 0.1 | <i>CHD7</i> | c.4402delG |

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|-----------------------|----------|---|------|----------------|--|
| CHARGE | MS1030 | m | 0.2 | <i>CHD7</i> | c.5074G>T, p.G1692X |
| CHARGE | MS1032 | m | 1.5 | <i>CHD7</i> | c.3548 delA |
| CHARGE | MS1035 | m | 0.2 | <i>CHD7</i> | c.6243C>A, p.C2081X). |
| CHARGE | MS1036 | f | 0.9 | <i>CHD7</i> | c.5768dupG |
| CHARGE | MS1037 | f | 1 | <i>CHD7</i> | c.7282C>T, p.R2428X |
| CHARGE | MS1038 | m | 2.1 | <i>CHD7</i> | c.1152delA |
| CHARGE | MS1039 | f | 0.1 | <i>CHD7</i> | c.2614-2_2614-1dupAG |
| CHARGE | MS1044 | m | 0.1 | <i>CHD7</i> | c.5574delA |
| CHARGE | MS1045 | m | 0.2 | <i>CHD7</i> | c.4862G>A, p.W1621X |
| CHARGE | MS1046 | f | 0.1 | <i>CHD7</i> | c.3359delG |
| CHARGE | MS1049 | m | 10.1 | <i>CHD7</i> | 7219delA |
| Coffin-Siris Syndrome | MS0674 | m | | <i>ARID1B</i> | |
| Coffin-Siris Syndrome | MS0676 | f | | <i>ARID1B</i> | |
| Coffin-Siris Syndrome | MS0678 | f | | <i>ARID1B</i> | |
| Coffin-Siris Syndrome | MS0679 | f | | <i>SMARCB1</i> | |
| Coffin-Siris Syndrome | MS0680 | m | | <i>ARID1B</i> | |
| Coffin-Siris Syndrome | MS0681 | f | | <i>SMARCB1</i> | |
| Coffin-Siris Syndrome | MS0683 | m | | <i>SMARCB1</i> | |
| Coffin-Siris Syndrome | MS0684 | m | | <i>ARID1B</i> | |
| Coffin-Siris Syndrome | MS0685 | f | | <i>ARID1B</i> | |
| ADCA-DN | MS0494 | f | | <i>DNMT1</i> | DNMT1 - NM_001130823.1:c.1709C>T [p.Ala570Val] |
| ADCA-DN | MS0495 | f | | <i>DNMT1</i> | DNMT1 - NM_001130823.1:c.1709C>T [p.Ala570Val] |
| ADCA-DN | MS0496 | m | | <i>DNMT1</i> | DNMT1 - NM_001130823.1:c.1709C>T [p.Ala570Val] |
| ADCA-DN | MS0497 | m | | <i>DNMT1</i> | DNMT1 - NM_001130823.1:c.1709C>T [p.Ala570Val] |
| ADCA-DN | MS0498 | m | | <i>DNMT1</i> | DNMT1 - NM_001130823.1:c.1709C>T [p.Ala570Val] |
| Kabuki | KMT2D-1 | f | 15 | <i>KMT2D</i> | c.15061C>T (p.Arg5021*) |
| Kabuki | KMT2D-10 | m | 6 | <i>KMT2D</i> | c.4135_4136delA (p.Met1379Valfs*52) |
| Kabuki | KMT2D-11 | m | 16 | <i>KMT2D</i> | c.11710C>T (p.Gln3904*) |
| Kabuki | KMT2D-2 | m | 1 | <i>KMT2D</i> | c.16318delG (p.Glu5440Argfs*16) |

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|--------|----------|---|------|--------------|---------------------------------------|
| Kabuki | KMT2D-22 | f | | <i>KMT2D</i> | c.11158C>T (p.Gln3720*) |
| Kabuki | KMT2D-25 | f | | <i>KMT2D</i> | c.16521+1G>T |
| Kabuki | KMT2D-26 | f | | <i>KMT2D</i> | c.1940dupC (p.Pro648Thrfs*2) |
| Kabuki | KMT2D-29 | m | | <i>KMT2D</i> | c.15088C>T (p.Arg5030Cys) |
| Kabuki | KMT2D-3 | m | 18 | <i>KMT2D</i> | c15030dupA (p.Glu5011Argfs*13) |
| Kabuki | KMT2D-30 | m | | <i>KMT2D</i> | c.5135delA (p.Lys1712Argfs*10) |
| Kabuki | KMT2D-32 | m | | <i>KMT2D</i> | c.16052G>A (p.Arg5351Gln) |
| Kabuki | KMT2D-33 | f | | <i>KMT2D</i> | c.11203C>T (p.Gln3735*) |
| Kabuki | KMT2D-36 | f | | <i>KMT2D</i> | c.15536G>A (p.Arg5179His) |
| Kabuki | KMT2D-4 | f | 16 | <i>KMT2D</i> | c.8172_8173delC (p.Phe2724Glnfs*5) |
| Kabuki | KMT2D-5 | m | 15 | <i>KMT2D</i> | c.6595delT (p.Tyr2199Ilefs*65) |
| Kabuki | KMT2D-6 | m | 11 | <i>KMT2D</i> | c.14055-14056delCA (p.His4685Glnfs*4) |
| Kabuki | KMT2D-7 | m | 14 | <i>KMT2D</i> | c.6295C>T (p.Arg2099*) |
| Kabuki | KMT2D-8 | m | 20 | <i>KMT2D</i> | c.4135_4136delA (p.Met1379Valfs*52) |
| Kabuki | KMT2D-9 | m | 18 | <i>KMT2D</i> | c.12592C>T (p.Arg4198*) |
| Kabuki | MS0608 | m | 7 | <i>KMT2D</i> | MLL2 c.1801_1822dup 22 |
| Kabuki | MS0711 | f | 6.7 | <i>KMT2D</i> | c.13059delG |
| Kabuki | MS0713 | m | 1.9 | <i>KMT2D</i> | c.839+1delG |
| Kabuki | MS0719 | f | 3.9 | <i>KMT2D</i> | c.15844C>T (p.R5282X) |
| Kabuki | MS0720 | m | 21.6 | <i>KMT2D</i> | c.16294C>T (p.R5432W) |
| Kabuki | MS0721 | f | 0 | <i>KMT2D</i> | c.8488C>T (p.R2830X) |
| Kabuki | MS0738 | f | 3.8 | <i>KMT2D</i> | c.4168dupG |
| Kabuki | MS0740 | m | 4.3 | <i>KMT2D</i> | c.15289C>T (p.R5097X) |
| Kabuki | MS0744 | m | 2.6 | <i>KMT2D</i> | c.4419-2A>G |
| Kabuki | MS0774 | f | 16.6 | <i>KMT2D</i> | c.548delC |
| Kabuki | MS0776 | f | 3.3 | <i>KMT2D</i> | c.7411C>T (p.R2471X) |
| Kabuki | MS0778 | f | 24.1 | <i>KMT2D</i> | c.1966dupC |
| Kabuki | MS0782 | f | 9.5 | <i>KMT2D</i> | c.6200delA |
| Kabuki | MS0783 | f | 9.3 | <i>KMT2D</i> | c.7933C>T (p.R2645X) |
| Kabuki | MS0784 | f | 5.8 | <i>KMT2D</i> | c.13450C>T (p.R4484X) |

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|--------------|--------|---|------|--------------|---|
| Kabuki | MS0786 | f | 19.1 | <i>KMT2D</i> | c.16048A>T (p.K5350X) |
| Kabuki | MS0787 | m | 7.1 | <i>KMT2D</i> | c.10201C>T (p.Q3401X) |
| Kabuki | MS0788 | m | 3.4 | <i>KMT2D</i> | c.16360C>T (p.R5454X) |
| Kabuki | MS0790 | m | 3.1 | <i>KMT2D</i> | c.8692C>T (p.Q2898X) |
| Kabuki | MS0792 | f | 4.1 | <i>KMT2D</i> | c.14878C>T (p.R4960X) |
| Kabuki | MS0793 | f | 23.1 | <i>KMT2D</i> | c.6265A>T (p.K2089X) |
| Kabuki | MS0794 | f | 6.9 | <i>KMT2D</i> | c.10740+1G>A |
| Kabuki | MS0795 | m | 2.2 | <i>KMT2D</i> | c.13652T>A (p.L4551X) |
| Kabuki | MS0796 | f | 1 | <i>KMT2D</i> | c.11596C>T (p.Q3866X) |
| Kabuki | MS0842 | f | 4 | <i>KMT2D</i> | c. 4135_4136delAT |
| Claes-Jensen | MS0690 | m | 30 | <i>KDM5C</i> | c.1510G>A; p.V504M |
| Claes-Jensen | MS0691 | m | 6 | <i>KDM5C</i> | c.1439C>T; p.P480L |
| Claes-Jensen | MS0692 | m | 26 | <i>KDM5C</i> | c.4439_4440delAG; p.fsR1481fxX9 |
| Claes-Jensen | MS0693 | m | 42 | <i>KDM5C</i> | IVS11+5G>A; p.E468GfsX2 |
| Claes-Jensen | MS0695 | m | 8 | <i>KDM5C</i> | c.1510G>A; p.V504M |
| Claes-Jensen | MS0697 | m | 2 | <i>KDM5C</i> | c.1439C>T; p.P480L |
| Claes-Jensen | MS0723 | m | 37 | <i>KDM5C</i> | c.229G>A; p.A77T |
| Claes-Jensen | MS0726 | m | 28 | <i>KDM5C</i> | c.4439_4440delAG; p.fsR1481fxX9 |
| Claes-Jensen | MS0727 | m | 13 | <i>KDM5C</i> | c.229G>A; p.A77T |
| Claes-Jensen | MS0728 | m | 26 | <i>KDM5C</i> | c.1510G>A; p.V504M |
| Rett | MS0516 | f | 1 | <i>MECP2</i> | R106W |
| Rett | MS0517 | f | 25 | <i>MECP2</i> | R168X |
| Rett | MS0518 | f | 34 | <i>MECP2</i> | P302R |
| Rett | MS0519 | f | 2 | <i>MECP2</i> | c1085del1113 |
| Rett | MS0520 | f | 1 | <i>MECP2</i> | T158M |
| Rett | MS0521 | f | 3 | <i>MECP2</i> | 917_939del123 |
| Rett | MS0522 | f | 3 | <i>MECP2</i> | deletion in exon 4 |
| Rett | MS0523 | f | 1 | <i>MECP2</i> | T158M |
| Rett | MS0524 | f | 4 | <i>MECP2</i> | P225R |
| Rett | MS0525 | f | 6 | <i>MECP2</i> | 1157_1197 del 41c (c terminal deletion) |

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|--------------|----------|---|------|--------------|--|
| Rett | MS0526 | f | 1.5 | <i>MECP2</i> | R255X |
| Rett | MS0527 | m | 0.7 | <i>MECP2</i> | 507 insAG |
| Rett | MS0555 | f | 6 | <i>MECP2</i> | deletion in exon 3 and 4 |
| Rett | MS0557 | f | 29 | <i>MECP2</i> | R106W |
| Rett | MS0559 | f | 3 | <i>MECP2</i> | T158M |
| Rett | MS0561 | f | 11 | <i>MECP2</i> | R255X |
| Rett | MS0563 | f | 4 | <i>MECP2</i> | partial deletion of exon 4 |
| Coffin-Lowry | MS0513 | f | 6 | <i>RSK2</i> | c.1520insA; p. fs507X |
| Coffin-Lowry | MS0514 | m | | <i>RSK2</i> | c.1894C>T; p. R632X |
| Coffin-Lowry | MS0515 | m | 11.5 | <i>RSK2</i> | c.371G>S; p. fs372X |
| Coffin-Lowry | MS0528 | m | 11.5 | <i>RSK2</i> | c.2065C>T; p. Q688X |
| Coffin-Lowry | MS0530 | m | 4 | <i>RSK2</i> | c.2186G>A; p. R729Q |
| Coffin-Lowry | MS0532 | m | 1.3 | <i>RSK2</i> | c.340C>T; p. W114R |
| Coffin-Lowry | MS0533 | m | 13 | <i>RSK2</i> | c.727C>T; p. X243 |
| Coffin-Lowry | MS0534 | m | 22.8 | <i>RSK2</i> | IVS14+1G>A |
| Coffin-Lowry | MS0535 | m | 12 | <i>RSK2</i> | c.62bp deletion spanning 35bp at 3'end of intron 7 and 29 bp at 5' of exon 8 |
| Coffin-Lowry | MS0536 | m | 2 | <i>RSK2</i> | c.386insCTTT; p. fs 130 X141 |
| Coffin-Lowry | MS0538 | m | 8 | <i>RSK2</i> | c.1155delT; p. fs385-X40 codons downstream |
| Sotos | 11D/6637 | m | 10 | <i>NSDI</i> | ex15-19 del |
| Sotos | 11D/6718 | f | 10 | <i>NSDI</i> | c.1716delC (p.Cys573Valfs*26) |
| Sotos | 11D_0326 | f | 9 | <i>NSDI</i> | chr5:175,366,008-177,470,488 (hg19) |
| Sotos | 11D_0328 | f | 7 | <i>NSDI</i> | chr5:175,764,262-177,059,256 (hg19) |
| Sotos | A1208 | f | 3.5 | <i>NSDI</i> | c.6454C>T (p.Arg2152*) |
| Sotos | DL117330 | f | 13.2 | <i>NSDI</i> | c.5445C>G (p.Tyr1815*) |
| Sotos | DL122057 | m | 3 | <i>NSDI</i> | c.4843delT (p.Tyr1615Thrfs*27) |
| Sotos | DL151889 | m | 2.2 | <i>NSDI</i> | microdeletion of distal 5q35.2 |
| Sotos | DL159249 | f | 12 | <i>NSDI</i> | c.6349C>T (p.Arg2117*) |
| Sotos | DL168744 | m | 2.2 | <i>NSDI</i> | c.1492C>T (p.Arg498*) |
| Sotos | DL179067 | m | 18 | <i>NSDI</i> | c.6454C>T (p.Arg2152*) |
| Sotos | DL38402 | m | 19.7 | <i>NSDI</i> | c.1583delA (p.Lys528Argfs*8) |

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|-----------------|----------|---|------|--------------|---|
| Sotos | DL50448 | m | 8 | <i>NSDI</i> | c.2014-2018delACAGA (p.Thr672Glufs*9) |
| Sotos | DL50450 | m | 41 | <i>NSDI</i> | c.2014-2018delACAGA (p.Thr672Glufs*9) |
| Sotos | DL50452 | f | 2 | <i>NSDI</i> | c.2014-2018delACAGA (p.Thr672Glufs*9) |
| Sotos | DL76010 | f | 1.6 | <i>NSDI</i> | c.1810C>T (p.Arg604*) |
| Sotos | DL87406 | m | 0.5 | <i>NSDI</i> | 5q35.2-35.3 (RP11-67P18 to RP11-423H2), FISH BAC RP11-99N22 deleted |
| Sotos | DL89813 | m | 10.6 | <i>NSDI</i> | c.1801A>T (p.Lys601*) |
| Sotos | DL94609 | m | 20 | <i>NSDI</i> | 4977_4978insG (p.Arg1660Alafs*13) |
| Sotos | HK-10067 | m | | <i>NSDI</i> | c.6013C>T (p.Arg2005*) |
| Sotos | HK-11302 | f | | <i>NSDI</i> | c.5397_c.5398insT (p.Gly1800Trpfs*3) |
| Sotos | HK-11807 | f | | <i>NSDI</i> | c.5887A>T (p.Lys1963*) |
| Sotos | HK-13565 | f | | <i>NSDI</i> | c.2607_c.2608insA (p.Arg870Lysfs*5) |
| Sotos | HK-15164 | f | | <i>NSDI</i> | WGD-Whole gene deletion |
| Sotos | HK-1540 | m | | <i>NSDI</i> | WGD-Whole gene deletion |
| Sotos | HK-15438 | f | | <i>NSDI</i> | WGD-Whole gene deletion |
| Sotos | HK-2129 | f | | <i>NSDI</i> | c.4417C>T (p.Arg1473*) |
| Sotos | HK-4470 | f | | <i>NSDI</i> | c.1754C>G (p.Ser585*) |
| Sotos | HK-4913 | f | | <i>NSDI</i> | c.2362C>T (p.Arg788*) |
| Sotos | HK-5107 | f | | <i>NSDI</i> | WGD-Whole gene deletion |
| Sotos | HK-5439 | f | | <i>NSDI</i> | c.3728delG (p.Ser1243Thrfs*14) |
| Sotos | HK-5530 | m | | <i>NSDI</i> | c.2334_c.2335insA (p.His779Thrfs*30) |
| Sotos | HK-5533 | m | | <i>NSDI</i> | c.2314delG (p.Ala772Glnfs*19) |
| Sotos | HK-5589 | f | | <i>NSDI</i> | c.1310C>G (p.Ser437*) |
| Sotos | HK-5977 | f | | <i>NSDI</i> | c.6349C>T (p.Arg2117*) |
| Sotos | HK-6779 | m | | <i>NSDI</i> | c.3067C>T (p.Arg1023*) |
| Sotos | HK-6966 | f | | <i>NSDI</i> | c.5296C>A (R1766X p.= (p.Arg1766Arg)) |
| Sotos | HK-7783 | m | | <i>NSDI</i> | c.4217delGAAA (p.Arg1406Asnfs*12) |
| Floating Harbor | MS0433 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0434 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0435 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0437 | f | | <i>SRCAP</i> | |

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|--------------------------|--------|---|-------|--------------|--|
| Floating Harbor | MS0439 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0440 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0441 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0442 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0443 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0444 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0445 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0446 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0447 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0449 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0450 | f | | <i>SRCAP</i> | |
| Floating Harbor | MS0451 | m | | <i>SRCAP</i> | |
| Floating Harbor | MS0452 | f | | <i>SRCAP</i> | |
| Saethre-Chotzen Syndrome | MS0611 | f | 0.003 | <i>TWIST</i> | c.385_405dup21 |
| Saethre-Chotzen Syndrome | MS0612 | m | 5.7 | <i>TWIST</i> | c.261del13 |
| Saethre-Chotzen Syndrome | MS0613 | f | 0.9 | <i>TWIST</i> | c.156delC |
| Saethre-Chotzen Syndrome | MS0614 | m | 38 | <i>TWIST</i> | A G>T transversion at nucleotide 376 was detected (E126X) |
| Saethre-Chotzen Syndrome | MS0615 | m | 30 | <i>TWIST</i> | A 21 basepair insertion beginning at nucleotide 406 was detected. |
| Saethre-Chotzen Syndrome | MS0617 | f | 33.5 | <i>TWIST</i> | The deletion of a cytosine at nucleotide 156 was detected. |
| Saethre-Chotzen Syndrome | MS0618 | m | 17.7 | <i>TWIST</i> | Insertion of 21 base pairs beginning at nucleotide 418 |
| Saethre-Chotzen Syndrome | MS0624 | f | 20.7 | <i>TWIST</i> | c.211C>T, p.Q71X |
| Saethre-Chotzen Syndrome | MS0625 | m | 0.7 | <i>TWIST</i> | c.325C>T, p.Q109X |
| Saethre-Chotzen Syndrome | MS0626 | m | 0.1 | <i>TWIST</i> | c.396_416dup21 |
| Saethre-Chotzen Syndrome | MS0632 | f | 0.01 | <i>TWIST</i> | c.193G>T, p.E65X |
| Saethre-Chotzen Syndrome | MS0633 | f | 23.3 | <i>TWIST</i> | c.472T>C, p.F158L |
| Saethre-Chotzen Syndrome | MS0638 | f | 0.35 | <i>TWIST</i> | entire <i>TWIST</i> gene deleted |
| Saethre-Chotzen Syndrome | MS0648 | f | 0.003 | <i>TWIST</i> | MLPA analysis detected a full gene deletion involving the <i>TWIST</i> gene. |
| Saethre-Chotzen Syndrome | MS0653 | f | 0.7 | <i>TWIST</i> | A G>T transition at nucleotide 160 (stop codon for a glycine at amino acid 54) |
| Saethre-Chotzen Syndrome | MS0654 | f | 20.5 | <i>TWIST</i> | c.397_417dup21 |
| Saethre-Chotzen Syndrome | MS0656 | m | 0.6 | <i>TWIST</i> | c.120_145del26 |

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|--------------------------|----------|---|------|--------------|---|
| Saethre-Chotzen Syndrome | MS0657 | f | 23.5 | <i>TWIST</i> | c.149delC |
| Saethre-Chotzen Syndrome | MS0660 | f | 12.3 | <i>TWIST</i> | A 21 base pair deletion beginning at nucleotide 394 was detected. |
| Saethre-Chotzen Syndrome | MS0665 | f | 21.5 | <i>TWIST</i> | c.352C>G, p.R118G |
| Saethre-Chotzen Syndrome | MS0668 | f | 0.8 | <i>TWIST</i> | c.376G>T, p.Gln126X |
| Saethre-Chotzen Syndrome | MS0669 | f | 28.7 | <i>TWIST</i> | c.490C>T, p.Q164X |
| Saethre-Chotzen Syndrome | MS0688 | m | 0.02 | <i>TWIST</i> | c.149delC |
| Saethre-Chotzen Syndrome | MS0689 | f | 0.1 | <i>TWIST</i> | c.149delC |
| Saethre-Chotzen Syndrome | MS0844 | f | 23.5 | <i>TWIST</i> | full gene deletion of <i>TWIST</i> |
| Weaver | A117 | f | | <i>EZH2</i> | c.394C>T (p.Pro132Ser) |
| Weaver | A123 | m | | <i>EZH2</i> | c.457_459del (p.Tyr153del) |
| Weaver | A134 | f | | <i>EZH2</i> | c.2080C>T (p.His694Tyr) |
| Weaver | A1359 | m | | <i>EZH2</i> | c.2050C>T (p.Arg684Cys) |
| Weaver | A212 | f | | <i>EZH2</i> | c.398A>G (p.Tyr133Cys) |
| Weaver | DL129940 | m | | <i>EZH2</i> | c.1876G>A (p.Val626Met) |
| Weaver | F0123 | m | | <i>EZH2</i> | c.553G>C (p.Asp185His) |
| GTPTS | MS0673 | f | | <i>KAT6B</i> | |
| GTPTS | MS0675 | m | | <i>KAT6B</i> | |
| GTPTS | MS0677 | m | | <i>KAT6B</i> | |
| SBBYSS | MS0682 | f | | <i>KAT6B</i> | |

Age and mutation information from some of the samples have been masked to protect the identities. Reference sequence for all mutations is hg19, except for *NSD1* mutations (hg18, unless specified otherwise [11D-0326 and 11D-0328])

Table S2 – Probes shared by the epi-signatures of more than two conditions

| Probe | Chr | Position | Genes | Enhancer | CpG island | ADCA-DN | Floating Harbor | ATRX | Kabuki | CHARGE | Claes-Jensen | Sotos | GTPTS | SBYSS |
|------------|-------|-----------|---------------------|----------|------------|---------|-----------------|------|--------|--------|--------------|-------|-------|-------|
| cg20768358 | chr1 | 3574999 | <i>TP73</i> | | OpenSea | | | Yes | Yes | | | Yes | | |
| cg04015962 | chr1 | 10949192 | | | OpenSea | | | | Yes | | Yes | Yes | | |
| cg06790069 | chr1 | 40203513 | <i>PPIE</i> | | N_Shore | | Yes | | | Yes | | | | Yes |
| cg02283735 | chr1 | 44011587 | <i>PTPRF</i> | TRUE | OpenSea | | | | Yes | | Yes | Yes | | |
| cg06766016 | chr1 | 45278971 | <i>BTBD19</i> | | Island | | Yes | | | | Yes | Yes | | |
| cg19530728 | chr1 | 45279132 | <i>BTBD19</i> | | Island | | Yes | | | | Yes | Yes | | |
| cg04605287 | chr1 | 54953486 | | | N_Shore | | | | Yes | | Yes | Yes | | |
| cg08128444 | chr1 | 68966466 | | | S_Shelf | | | Yes | | Yes | | Yes | | |
| cg20457732 | chr1 | 71172486 | | TRUE | OpenSea | | Yes | | | | Yes | Yes | | |
| cg03847896 | chr1 | 112154295 | | TRUE | OpenSea | | Yes | Yes | | Yes | | | | |
| cg25066665 | chr1 | 150335507 | <i>RPRD2</i> | | N_Shore | | Yes | | | | Yes | Yes | | |
| cg15448220 | chr1 | 150897856 | <i>SETDB1</i> | | N_Shore | | Yes | | | | Yes | Yes | | |
| cg10589385 | chr1 | 150898437 | <i>SETDB1</i> | | N_Shore | | Yes | | | | Yes | Yes | | |
| cg13069100 | chr1 | 155035008 | <i>ADAM15;EFNA4</i> | | Island | | Yes | | | Yes | | | | Yes |
| cg09938479 | chr1 | 178455912 | | | Island | | Yes | | Yes | | Yes | Yes | | |
| cg26004771 | chr1 | 178456093 | | | Island | | Yes | | | | Yes | Yes | | |
| cg22790377 | chr1 | 228291668 | <i>C1orf35</i> | | S_Shore | | Yes | Yes | Yes | | | | | |
| cg20462561 | chr1 | 228890820 | | | Island | | Yes | | Yes | | | Yes | | |
| cg03982998 | chr1 | 238024671 | <i>LOC100130331</i> | | OpenSea | | | Yes | | Yes | | Yes | | |
| cg11166453 | chr1 | 247681781 | | | Island | | Yes | | | | Yes | Yes | | Yes |
| cg06362358 | chr1 | 248855545 | | | S_Shore | | Yes | Yes | Yes | | | | | |
| cg03701930 | chr10 | 1981436 | | | OpenSea | | | | Yes | Yes | | Yes | | |
| cg08584759 | chr10 | 11912126 | <i>C10orf47</i> | | Island | | | | Yes | Yes | | Yes | | |
| cg20137746 | chr10 | 27235598 | | | OpenSea | | Yes | Yes | | | | Yes | | |
| cg01001533 | chr10 | 44184868 | | | N_Shore | | | | Yes | | | Yes | Yes | |
| cg24530234 | chr10 | 44224014 | | | Island | | Yes | Yes | | | | Yes | | |
| cg12845268 | chr10 | 63657363 | | TRUE | OpenSea | | | | Yes | | Yes | Yes | | |

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|------------|-------|-----------|-------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg09411922 | chr10 | 75121857 | | | S_Shelf | | | Yes | | Yes | | Yes | | |
| cg12667595 | chr10 | 81743362 | | | Island | | Yes | | Yes | | | Yes | | |
| cg16844333 | chr10 | 89167457 | | | OpenSea | Yes | Yes | | | | | Yes | | |
| cg23615741 | chr10 | 101297642 | | TRUE | Island | | Yes | | Yes | | | | Yes | Yes |
| cg27245056 | chr10 | 122356491 | | | OpenSea | | Yes | Yes | | Yes | | | | |
| cg07040013 | chr10 | 132099553 | | | OpenSea | Yes | | | Yes | | | Yes | | |
| cg22079043 | chr11 | 1785631 | <i>CTSD;HCCA2</i> | | S_Shore | | Yes | | | | Yes | Yes | | |
| cg13924715 | chr11 | 10750890 | | | OpenSea | | | Yes | Yes | | | Yes | | |
| cg05488217 | chr11 | 58730897 | | TRUE | N_Shore | | Yes | | | Yes | | | Yes | |
| cg17379860 | chr11 | 61159602 | <i>TMEM216</i> | | N_Shore | | | Yes | | | Yes | Yes | | |
| cg04638150 | chr11 | 62273418 | <i>AHNAK</i> | TRUE | OpenSea | | | Yes | Yes | | | Yes | | |
| cg01178624 | chr11 | 65360327 | <i>KCNK7</i> | | Island | | Yes | | Yes | | | | | Yes |
| cg22203628 | chr11 | 69241075 | | | OpenSea | | Yes | | | Yes | | Yes | | |
| cg04006327 | chr11 | 72533487 | <i>ATG16L2</i> | TRUE | Island | | Yes | | | Yes | | | | Yes |
| cg03274739 | chr11 | 98437942 | | | OpenSea | | Yes | | | Yes | | Yes | | |
| cg06137123 | chr11 | 129444480 | | | OpenSea | | | Yes | Yes | Yes | | Yes | | |
| cg05237469 | chr11 | 133446415 | | | OpenSea | | | Yes | Yes | | Yes | | | |
| cg10635895 | chr12 | 2339439 | <i>CACNA1C</i> | | Island | | Yes | | | | Yes | Yes | | |
| cg01837362 | chr12 | 34492938 | | | N_Shore | | | Yes | Yes | | | Yes | | |
| cg16615454 | chr12 | 50475167 | <i>ACCN2</i> | | Island | | | Yes | | | | Yes | Yes | |
| cg03146625 | chr12 | 54448729 | <i>HOXC4</i> | | S_Shore | | | | Yes | Yes | | Yes | | |
| cg17970299 | chr12 | 54772804 | <i>ZNF385A</i> | TRUE | Island | | Yes | Yes | Yes | | | | | |
| cg08425810 | chr12 | 58132558 | <i>AGAP2</i> | | Island | | | | Yes | Yes | | Yes | | |
| cg00047843 | chr12 | 83321412 | <i>TMTC2</i> | TRUE | OpenSea | | | Yes | | Yes | | Yes | | |
| cg10082647 | chr12 | 107348855 | <i>C12orf23</i> | | N_Shore | | | | | | Yes | Yes | Yes | |
| cg11367159 | chr12 | 110044531 | | TRUE | OpenSea | | Yes | | | | Yes | Yes | | |
| cg10504392 | chr12 | 110044639 | | TRUE | OpenSea | | Yes | | | | Yes | Yes | | |
| cg13810723 | chr12 | 119592343 | <i>SRRM4</i> | | S_Shore | Yes | | Yes | | | | Yes | | |
| cg08083251 | chr13 | 23309930 | | | OpenSea | | Yes | | Yes | | | Yes | | |
| cg13614409 | chr13 | 31506752 | <i>C13orf26</i> | | OpenSea | | Yes | | Yes | | | Yes | | |

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|------------|-------|-----------|-------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg26168643 | chr13 | 88328009 | <i>SLITRK5</i> | | N_Shore | | | Yes | Yes | Yes | | | | |
| cg24626752 | chr13 | 88328274 | <i>SLITRK5</i> | | N_Shore | | | | Yes | Yes | | | | Yes |
| cg05757365 | chr13 | 88328471 | <i>SLITRK5</i> | | N_Shore | | | | Yes | Yes | | | | Yes |
| cg08602346 | chr13 | 113242997 | <i>TUBGCP3</i> | | S_Shore | | | | | | Yes | Yes | Yes | |
| cg14009504 | chr14 | 71555837 | <i>PCNX</i> | TRUE | OpenSea | | | Yes | | Yes | | Yes | | |
| cg09214243 | chr15 | 29968124 | | | S_Shore | | | | Yes | | Yes | Yes | | |
| cg12414681 | chr15 | 29968195 | | | S_Shore | | | | Yes | | Yes | Yes | | |
| cg09456065 | chr15 | 56759655 | | | S_Shelf | | | Yes | | Yes | | Yes | | |
| cg02703787 | chr15 | 93256789 | | | N_Shore | | Yes | Yes | | | | | Yes | |
| cg27009812 | chr16 | 3062597 | <i>CLDN9</i> | TRUE | N_Shore | | | | | Yes | Yes | Yes | | |
| cg04715503 | chr16 | 3062795 | <i>CLDN9</i> | TRUE | N_Shore | | | | | Yes | Yes | Yes | | |
| cg00524708 | chr16 | 31159558 | <i>PRSS36</i> | | N_Shore | | | Yes | Yes | | | Yes | | |
| cg10424751 | chr16 | 32289757 | | | Island | | | Yes | Yes | | | Yes | | |
| cg00130223 | chr16 | 33070551 | | | Island | | | | Yes | Yes | | Yes | | |
| cg03203197 | chr16 | 34587120 | | | Island | | | | Yes | Yes | | Yes | | |
| cg01517680 | chr16 | 49499006 | | TRUE | Island | | Yes | Yes | | | | Yes | | |
| cg12499872 | chr16 | 58019893 | <i>TEPP</i> | | Island | Yes | | Yes | | | | Yes | | |
| cg09482050 | chr16 | 67686832 | <i>RLTPR</i> | | N_Shore | | Yes | Yes | | | | Yes | | |
| cg06911613 | chr16 | 85846184 | | | S_Shore | | | | Yes | | | Yes | | Yes |
| cg04387835 | chr17 | 4649076 | <i>ZMYND15</i> | | OpenSea | | | Yes | Yes | | | Yes | | |
| cg17900689 | chr17 | 4649262 | <i>ZMYND15</i> | | OpenSea | | | Yes | Yes | | | Yes | | |
| cg03613822 | chr17 | 7115140 | <i>DLG4</i> | | N_Shelf | | Yes | Yes | Yes | | | | | |
| cg19786602 | chr17 | 7966326 | | | OpenSea | | | Yes | Yes | | | Yes | | |
| cg06663305 | chr17 | 8095813 | | | S_Shelf | | Yes | Yes | Yes | | | | | |
| cg16006004 | chr17 | 41278241 | <i>BRCA1;NBR2</i> | | Island | | Yes | | Yes | | | | | Yes |
| cg07075026 | chr17 | 47091521 | <i>IGF2BP1</i> | | Island | | Yes | | | Yes | | Yes | | |
| cg10950924 | chr17 | 47092072 | <i>IGF2BP1</i> | TRUE | Island | | Yes | | | Yes | | Yes | | |
| cg18040354 | chr17 | 53800484 | <i>TMEM100</i> | | OpenSea | | Yes | | | Yes | Yes | | | |
| cg12131208 | chr17 | 58499700 | <i>C17orf64</i> | TRUE | S_Shore | | | | Yes | | Yes | Yes | | |
| cg21122199 | chr17 | 58499720 | <i>C17orf64</i> | TRUE | S_Shore | Yes | | | | | Yes | Yes | | |

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|------------|-------|-----------|----------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg08122232 | chr17 | 74100132 | <i>EXOC7</i> | | S_Shore | | Yes | | | | Yes | Yes | Yes | |
| cg12082025 | chr19 | 1064218 | <i>ABCA7</i> | | Island | | Yes | Yes | | | | Yes | | |
| cg14576825 | chr19 | 1676136 | | | Island | Yes | | | | | | | Yes | Yes |
| cg18795569 | chr19 | 3480508 | <i>C19orf77</i> | | N_Shore | | Yes | Yes | | | | Yes | | |
| cg02085507 | chr19 | 6739192 | <i>TRIP10</i> | | N_Shore | | Yes | | Yes | | | Yes | | |
| cg22987448 | chr19 | 8591364 | <i>MYO1F</i> | | Island | | Yes | | Yes | Yes | | | | |
| cg08283130 | chr19 | 8591776 | <i>MYO1F</i> | | Island | | Yes | | Yes | Yes | | | | |
| cg14266237 | chr19 | 12995624 | <i>KLF1</i> | | N_Shore | | Yes | | | | Yes | | | Yes |
| cg19492423 | chr19 | 18700933 | <i>C19orf60</i> | | S_Shore | | Yes | Yes | Yes | | Yes | | | Yes |
| cg21977234 | chr19 | 18701320 | <i>C19orf60</i> | | S_Shore | | Yes | Yes | | | Yes | | | Yes |
| cg26931208 | chr19 | 49244592 | <i>IZUMO1</i> | | S_Shore | | Yes | Yes | | | | Yes | | |
| cg26750002 | chr19 | 49244674 | <i>IZUMO1;RASIP1</i> | | S_Shore | | Yes | Yes | | | | Yes | | |
| cg17434634 | chr19 | 49522954 | | TRUE | Island | | Yes | | | | | | Yes | Yes |
| cg05934682 | chr19 | 50394298 | <i>ILAI1</i> | TRUE | S_Shore | | | Yes | Yes | | | Yes | | |
| cg11383165 | chr19 | 56002283 | <i>SSC5D</i> | | Island | | | | Yes | | | Yes | | Yes |
| cg16151651 | chr2 | 1609119 | | | OpenSea | | Yes | | | | Yes | Yes | | |
| cg18396357 | chr2 | 50201413 | <i>NRXN1</i> | | OpenSea | | Yes | Yes | | Yes | | | | |
| cg09692695 | chr2 | 74668286 | <i>RTKN</i> | | Island | | | Yes | | | Yes | Yes | | |
| cg25334934 | chr2 | 121269348 | | TRUE | OpenSea | | | | Yes | | Yes | Yes | | |
| cg18478731 | chr2 | 129659682 | | | Island | | Yes | | Yes | | | Yes | | |
| cg11942181 | chr2 | 129659946 | | | Island | | Yes | | Yes | | | Yes | | |
| cg09015973 | chr2 | 131673771 | <i>ARHGEF4</i> | | Island | | | | Yes | | | Yes | | Yes |
| cg03727500 | chr2 | 232348334 | | TRUE | Island | | | | Yes | | Yes | Yes | | |
| cg11559198 | chr2 | 232348794 | | | Island | | | | Yes | | Yes | Yes | | |
| cg05857996 | chr20 | 2675418 | <i>EBF4</i> | TRUE | S_Shore | | | | Yes | | Yes | Yes | | |
| cg24263062 | chr20 | 2730191 | <i>EBF4</i> | | Island | | | | Yes | | Yes | Yes | | |
| cg12176783 | chr20 | 62694000 | <i>TCEA2</i> | | Island | | Yes | | Yes | | | | | Yes |
| cg05437132 | chr21 | 10990903 | <i>TPTE</i> | | Island | | | Yes | | Yes | | Yes | | |
| cg04767174 | chr21 | 15069190 | | | Island | | | Yes | Yes | | | Yes | | |
| cg08597025 | chr21 | 15077096 | | | Island | | | Yes | | Yes | | Yes | | |

| | | | | | | | | | | | | | | |
|------------|-------|-----------|--------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg21916358 | chr21 | 15077562 | | | Island | | | Yes | Yes | Yes | | Yes | | |
| cg10044179 | chr21 | 15352983 | <i>C21orf81</i> | | S_Shore | | | Yes | Yes | Yes | | Yes | | |
| cg23720384 | chr21 | 23747055 | | | OpenSea | | | Yes | Yes | | | | Yes | |
| cg14172108 | chr21 | 34405553 | | | N_Shore | | | | Yes | | Yes | Yes | | |
| cg00274965 | chr21 | 34405681 | | | Island | | | | Yes | | Yes | Yes | | |
| cg03389890 | chr22 | 16868045 | | | Island | | | | Yes | | | Yes | Yes | |
| cg16054907 | chr22 | 50706065 | <i>MAPK11</i> | | Island | | Yes | Yes | | Yes | | | | |
| cg07225641 | chr3 | 46618325 | <i>LRRC2;TDGF1</i> | | Island | Yes | | | | | | Yes | Yes | |
| cg08234664 | chr3 | 49170668 | <i>LAMB2</i> | | OpenSea | | Yes | | | Yes | | Yes | Yes | |
| cg14099457 | chr3 | 49170794 | <i>LAMB2</i> | | OpenSea | | | | | Yes | | Yes | Yes | |
| cg10313047 | chr3 | 52351355 | <i>DNAH1</i> | | OpenSea | | Yes | | | Yes | | | Yes | |
| cg00487142 | chr3 | 109056357 | <i>DPPA4</i> | | OpenSea | | Yes | Yes | | | | Yes | | |
| cg14836960 | chr3 | 109056618 | <i>DPPA4</i> | | OpenSea | | Yes | Yes | | | | Yes | | |
| cg21750709 | chr3 | 109056897 | <i>DPPA4</i> | | OpenSea | | Yes | Yes | | | | Yes | | |
| cg01571001 | chr3 | 128215433 | | | Island | | Yes | | | Yes | | | | Yes |
| cg01757168 | chr3 | 128215565 | | | Island | | Yes | | | Yes | Yes | | | Yes |
| cg09406615 | chr3 | 165555103 | <i>BCHE</i> | TRUE | OpenSea | | Yes | | | | | Yes | Yes | |
| cg10663765 | chr3 | 194014592 | | | Island | | | | | Yes | | Yes | Yes | |
| cg23855319 | chr4 | 2062392 | <i>NAT8L</i> | | Island | | Yes | | | | | Yes | Yes | |
| cg16091553 | chr4 | 46126245 | <i>GABRG1</i> | TRUE | OpenSea | | Yes | | | | Yes | Yes | | |
| cg19676181 | chr4 | 56660398 | | | S_Shore | | Yes | | | | | Yes | Yes | |
| cg06013872 | chr4 | 72203823 | <i>SLC4A4</i> | | OpenSea | | Yes | Yes | | | Yes | | | |
| cg03670393 | chr4 | 81128690 | | TRUE | Island | Yes | Yes | | | | | Yes | | |
| cg04511182 | chr4 | 103269584 | | | S_Shelf | | | Yes | | | Yes | | Yes | |
| cg13023646 | chr4 | 165898835 | <i>TRIM61</i> | | OpenSea | | Yes | | | | | Yes | Yes | |
| cg11685843 | chr4 | 176349171 | | | OpenSea | | Yes | Yes | Yes | Yes | | | | |
| cg09166973 | chr5 | 23507573 | <i>PRDM9</i> | | OpenSea | | | Yes | | | Yes | Yes | | |
| cg07011961 | chr5 | 23507594 | <i>PRDM9</i> | | OpenSea | | Yes | Yes | | | Yes | Yes | Yes | |
| cg25472530 | chr5 | 23507617 | <i>PRDM9</i> | | OpenSea | | Yes | Yes | | | Yes | | | |
| cg22079902 | chr5 | 23507644 | <i>PRDM9</i> | | OpenSea | | | Yes | | | Yes | Yes | | |

| | | | | | | | | | | | | | | |
|------------|------|-----------|--------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg01667892 | chr5 | 23507656 | <i>PRDM9</i> | | OpenSea | | | Yes | | | Yes | Yes | | |
| cg23688479 | chr5 | 42756851 | <i>CCDC152</i> | | OpenSea | | Yes | Yes | | | | Yes | | |
| cg16026035 | chr5 | 70742893 | | | OpenSea | | | Yes | | | Yes | Yes | | |
| cg06501366 | chr5 | 78365687 | <i>BHMT2</i> | TRUE | Island | | Yes | Yes | | | | Yes | | |
| cg08328513 | chr5 | 78365691 | <i>BHMT2;DMGDH</i> | TRUE | Island | | Yes | Yes | | | | Yes | | |
| cg04117076 | chr5 | 88991074 | | TRUE | OpenSea | | | Yes | | Yes | | Yes | | |
| cg14575983 | chr5 | 99922152 | <i>FAM174A</i> | | OpenSea | | | Yes | | Yes | | Yes | | |
| cg18665594 | chr5 | 101119420 | | | OpenSea | | Yes | | Yes | | | Yes | | |
| cg19526166 | chr5 | 110062729 | <i>TMEM232</i> | | OpenSea | | Yes | Yes | | | Yes | Yes | | |
| cg26817546 | chr5 | 135538704 | | TRUE | OpenSea | | Yes | | | | Yes | Yes | | |
| cg08951638 | chr5 | 141706213 | | TRUE | S_Shore | Yes | Yes | | | | | Yes | | |
| cg19731612 | chr5 | 176559334 | <i>NSD1</i> | TRUE | Island | | Yes | | | | Yes | Yes | | |
| cg17493885 | chr5 | 176559558 | <i>NSD1</i> | | Island | | Yes | | | | Yes | Yes | | |
| cg18121224 | chr5 | 176559563 | <i>NSD1</i> | | Island | | Yes | | | | Yes | Yes | | |
| cg26092675 | chr6 | 26225258 | <i>HIST1H3E</i> | | N_Shore | | Yes | Yes | | | Yes | | | Yes |
| cg13836098 | chr6 | 26225268 | <i>HIST1H3E</i> | | N_Shore | | Yes | Yes | | | Yes | | | Yes |
| cg22040809 | chr6 | 26522578 | <i>HCG11</i> | | Island | Yes | | | | | Yes | Yes | | |
| cg17762073 | chr6 | 34024220 | <i>GRM4</i> | TRUE | Island | | | Yes | | | Yes | Yes | | |
| cg20646500 | chr6 | 42536105 | <i>UBR2</i> | | S_Shelf | | Yes | Yes | | Yes | | | | |
| cg17097119 | chr6 | 49917872 | <i>DEFB133</i> | | OpenSea | | | Yes | | Yes | | Yes | | |
| cg00389785 | chr6 | 55035173 | | | N_Shelf | | Yes | Yes | | Yes | | Yes | | |
| cg18090145 | chr6 | 67741714 | | | OpenSea | | | Yes | Yes | Yes | | | | |
| cg14079463 | chr6 | 127796989 | <i>C6orf174</i> | | Island | | Yes | Yes | | | Yes | | | |
| cg04580344 | chr6 | 127797022 | <i>C6orf174</i> | | Island | Yes | | Yes | | | Yes | | | |
| cg08883853 | chr7 | 1026168 | <i>CYP2W1</i> | | Island | | | | | Yes | | Yes | | Yes |
| cg12995372 | chr7 | 11066024 | <i>PHF14</i> | | OpenSea | | | Yes | | Yes | | Yes | | |
| cg24231558 | chr7 | 16626326 | | | Island | | | Yes | | Yes | | Yes | | |
| cg18081818 | chr7 | 23246105 | | | Island | | | | | | Yes | Yes | Yes | |
| cg05407003 | chr7 | 23246146 | | | Island | | | | | | Yes | Yes | Yes | |
| cg11015251 | chr7 | 27170554 | <i>HOXA4</i> | TRUE | Island | | | | Yes | Yes | | | Yes | |

| | | | | | | | | | | | | | | |
|------------|------|-----------|---------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg20974609 | chr7 | 27181671 | HOXA5 | | N_Shore | | | | Yes | Yes | | | Yes | |
| cg11724970 | chr7 | 27182493 | HOXA5 | | N_Shore | | | | Yes | Yes | | | Yes | |
| cg05076221 | chr7 | 27182637 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg23936031 | chr7 | 27183133 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg04863892 | chr7 | 27183375 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg19759481 | chr7 | 27183401 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg02916332 | chr7 | 27183591 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg17569124 | chr7 | 27183643 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg02005600 | chr7 | 27183686 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg25307665 | chr7 | 27183694 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg14014955 | chr7 | 27183701 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg02646423 | chr7 | 27183794 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg20517050 | chr7 | 27183806 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg23204968 | chr7 | 27183816 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg20817131 | chr7 | 27184167 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg25390165 | chr7 | 27184188 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg14882265 | chr7 | 27184375 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg17432857 | chr7 | 27184438 | HOXA5 | | Island | Yes | | | Yes | Yes | | | Yes | |
| cg00969405 | chr7 | 27184441 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg03368099 | chr7 | 27184521 | HOXA5 | | Island | | | | Yes | Yes | | | Yes | |
| cg27151303 | chr7 | 27184821 | | | Island | | | | Yes | Yes | | | Yes | |
| cg24040595 | chr7 | 27185512 | HOXA6 | | Island | | | | Yes | Yes | | | Yes | |
| cg23129930 | chr7 | 27186993 | HOXA6 | | Island | | | | Yes | Yes | | | Yes | |
| cg05928186 | chr7 | 27187102 | HOXA6 | | Island | | | | Yes | Yes | | | Yes | |
| cg02943305 | chr7 | 31685368 | CCDC129 | TRUE | OpenSea | | Yes | Yes | | Yes | | | | |
| cg27385590 | chr7 | 49619841 | | TRUE | OpenSea | | Yes | | | | | Yes | Yes | |
| cg26766885 | chr7 | 96220185 | | TRUE | OpenSea | | | | | Yes | | Yes | | Yes |
| cg05715492 | chr7 | 98991138 | ARPC1B | TRUE | S_Shore | | Yes | | Yes | | | | | Yes |
| cg08234689 | chr7 | 127910927 | | | Island | | | Yes | | | Yes | Yes | | |
| cg26209990 | chr7 | 127911258 | | | Island | | | Yes | | | Yes | Yes | | |

| | | | | | | | | | | | | | | |
|------------|------|-----------|-------------------|------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| cg11688949 | chr8 | 27115956 | <i>STMN4</i> | | OpenSea | Yes | | | | | Yes | Yes | | |
| cg20893180 | chr8 | 36957379 | | TRUE | OpenSea | | | | | | Yes | Yes | Yes | |
| cg08620329 | chr8 | 67454546 | | TRUE | Island | | Yes | Yes | | | | Yes | | |
| cg12109823 | chr8 | 67454595 | | TRUE | Island | | Yes | Yes | | | | Yes | | |
| cg02173067 | chr8 | 111214984 | | | OpenSea | | Yes | | | | | Yes | Yes | |
| cg12873476 | chr8 | 142402728 | | TRUE | S_Shore | | Yes | Yes | | | Yes | | | |
| cg23171972 | chr8 | 143203477 | | | S_Shore | | | | | Yes | | Yes | | Yes |
| cg13746854 | chr9 | 34370894 | <i>KIAA1161</i> | TRUE | Island | | | | Yes | | Yes | | | Yes |
| cg11510586 | chr9 | 72027409 | | TRUE | Island | | Yes | | Yes | | | Yes | | |
| cg14035368 | chr9 | 139258938 | <i>CARD9;DNLZ</i> | | Island | | Yes | | | Yes | | Yes | | |

Table S3 - Top gene ontology terms found to be enriched in the genes harboring probes shared by the epi-signatures of more than two conditions

| Gene Ontology | Gene Ontology Term | N | DE | P-value |
|---------------|---|----|----|----------|
| GO:0007625 | grooming behavior | 17 | 3 | 3.80E-05 |
| GO:2000821 | regulation of grooming behavior | 4 | 2 | 0.000149 |
| GO:0097109 | neuroligin family protein binding | 5 | 2 | 0.000504 |
| GO:0033130 | acetylcholine receptor binding | 8 | 2 | 0.0007 |
| GO:0060484 | lung-associated mesenchyme development | 10 | 2 | 0.001066 |
| GO:0060044 | negative regulation of cardiac muscle cell proliferation | 10 | 2 | 0.001096 |
| GO:0018024 | histone-lysine N-methyltransferase activity | 43 | 3 | 0.001101 |
| GO:0016279 | protein-lysine N-methyltransferase activity | 55 | 3 | 0.001883 |
| GO:0016278 | lysine N-methyltransferase activity | 56 | 3 | 0.001955 |
| GO:0042054 | histone methyltransferase activity | 56 | 3 | 0.00215 |
| GO:0055022 | negative regulation of cardiac muscle tissue growth | 14 | 2 | 0.002192 |
| GO:0061117 | negative regulation of heart growth | 14 | 2 | 0.002192 |
| GO:0006978 | DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator | 16 | 2 | 0.002608 |
| GO:0001891 | phagocytic cup | 19 | 2 | 0.002654 |
| GO:0047865 | dimethylglycine dehydrogenase activity | 1 | 1 | 0.00278 |
| GO:0042772 | DNA damage response, signal transduction resulting in transcription | 17 | 2 | 0.003039 |
| GO:0061627 | S-methylmethionine-homocysteine S-methyltransferase activity | 1 | 1 | 0.003144 |
| GO:0033477 | S-methylmethionine metabolic process | 1 | 1 | 0.003144 |
| GO:0071625 | vocalization behavior | 15 | 2 | 0.003453 |
| GO:0072274 | metanephric glomerular basement membrane development | 1 | 1 | 0.003898 |

N: Number of genes in the GO term; DE: number of genes that are differentially methylated

Table S4 – Pathways enriched in the genes harboring probes shared by the epi-signatures of more than two conditions

| ID | Description | BgRatio | pvalue | p.adjust | qvalue | geneID | Count |
|---------------|---|----------|----------|----------|----------|-----------------------------------|-------|
| R-HSA-3214841 | PKMTs methylate histone lysines* | 73/10281 | 0.000116 | 0.025528 | 0.022841 | <i>PRDM9/SETDB1/HIST1H3E/NSD1</i> | 4 |
| R-HSA-6804759 | Regulation of TP53 Activity through Association with Co-factors | 14/10281 | 0.001057 | 0.104046 | 0.093094 | <i>ZNF385A/TP73</i> | 2 |
| R-HSA-3000171 | Non-integrin membrane-ECM interactions | 64/10281 | 0.001419 | 0.104046 | 0.093094 | <i>LAMB2/LAMC1/NRXN1</i> | 3 |
| R-HSA-6794362 | Protein-protein interactions at synapses | 71/10281 | 0.001914 | 0.105267 | 0.094186 | <i>PTPRF/DLG4/NRXN1</i> | 3 |
| R-HSA-8849932 | SALM protein interactions at the synapses | 21/10281 | 0.002401 | 0.105641 | 0.094521 | <i>PTPRF/DLG4</i> | 2 |
| R-HSA-3000157 | Laminin interactions | 33/10281 | 0.00588 | 0.184787 | 0.165336 | <i>LAMB2/LAMC1</i> | 2 |
| R-HSA-8874081 | MET activates PTK2 signaling | 33/10281 | 0.00588 | 0.184787 | 0.165336 | <i>LAMB2/LAMC1</i> | 2 |
| R-HSA-168638 | NOD1/2 Signaling Pathway | 36/10281 | 0.006969 | 0.191659 | 0.171484 | <i>CARD9/MAPK11</i> | 2 |

*Adjusted p-value<0.05

Table S5 – Probes used for development of a multiclass SVM classification model

| Probe | Chr | Position | Gene | Islands_Name | Relation_to_Island |
|------------|-------|-----------|------------------|---------------------------|--------------------|
| cg27619353 | chr22 | 38071651 | <i>LGALS1</i> | chr22:38073037-38073412 | N_Shore |
| cg19386379 | chr11 | 844284 | <i>TSPAN4</i> | chr11:842293-843396 | S_Shore |
| cg04234016 | chr12 | 7062109 | <i>PTPN6</i> | | OpenSea |
| cg12474798 | chr10 | 64565772 | <i>ADO</i> | chr10:64564435-64565818 | Island |
| cg02583484 | chr12 | 54677008 | <i>HNRNPA1</i> | chr12:54673322-54673550 | S_Shelf |
| cg03010887 | chr16 | 85600235 | | | OpenSea |
| cg13759905 | chr2 | 233741920 | | chr2:233740668-233741879 | S_Shore |
| cg06768599 | chr14 | 24785488 | <i>LTB4R</i> | chr14:24785147-24785869 | Island |
| cg04731926 | chr19 | 35758185 | <i>LSR</i> | chr19:35758201-35759670 | N_Shore |
| cg13298859 | chr7 | 2551996 | <i>LFNG</i> | | OpenSea |
| cg21886367 | chr14 | 24780825 | <i>LTB4R</i> | chr14:24779874-24780932 | Island |
| cg12464638 | chr11 | 844400 | <i>TSPAN4</i> | chr11:842293-843396 | S_Shore |
| cg07397616 | chr22 | 38035109 | <i>SH3BP1</i> | chr22:38035350-38035928 | N_Shore |
| cg18182216 | chr1 | 150978385 | <i>FAM63A</i> | chr1:150980735-150981092 | N_Shelf |
| cg15095327 | chr3 | 9944512 | <i>IL17RE</i> | | OpenSea |
| cg10582687 | chr8 | 48091424 | | | OpenSea |
| cg22091609 | chr22 | 20780508 | <i>SCARF2</i> | chr22:20779386-20780560 | Island |
| cg21721340 | chr20 | 62682309 | <i>SOX18</i> | chr20:62679424-62680883 | S_Shore |
| cg11545720 | chr19 | 4558377 | <i>SEMA6B</i> | chr19:4558363-4558579 | Island |
| cg17054691 | chr17 | 79813439 | <i>P4HB</i> | | OpenSea |
| cg06247837 | chr17 | 37820135 | <i>TCAP</i> | chr17:37823693-37824989 | N_Shelf |
| cg05551825 | chr7 | 5735129 | <i>RNF216</i> | | OpenSea |
| cg03043406 | chr1 | 45242356 | <i>RPS8</i> | chr1:45241013-45241900 | S_Shore |
| cg08255475 | chr16 | 88871329 | <i>CDT1</i> | chr16:88871850-88872056 | N_Shore |
| cg20978937 | chr14 | 105399321 | <i>PLD4</i> | chr14:105398076-105400079 | Island |
| cg01178624 | chr11 | 65360327 | <i>KCNK7</i> | chr11:65359292-65360328 | Island |
| cg00551910 | chr14 | 70037973 | <i>C14orf162</i> | chr14:70038108-70040302 | N_Shore |
| cg11225330 | chr1 | 1196747 | <i>UBE2J2</i> | | OpenSea |
| cg08818610 | chr6 | 24910720 | <i>FAM65B</i> | chr6:24910626-24911285 | Island |
| cg13710969 | chr17 | 79393463 | <i>BAHCC1</i> | chr17:79393341-79393742 | Island |
| cg24695071 | chr7 | 2419958 | <i>EIF3B</i> | chr7:2419808-2420340 | Island |
| cg03173827 | chr20 | 62688717 | <i>TCEA2</i> | chr20:62688551-62688878 | Island |
| cg16823042 | chr12 | 58119992 | <i>AGAP2</i> | chr12:58119909-58121551 | Island |
| cg06826457 | chr12 | 12867669 | | chr12:12869798-12871248 | N_Shelf |
| cg14707053 | chr6 | 42019127 | <i>TAF8</i> | chr6:42018139-42018604 | S_Shore |
| cg20543544 | chr10 | 81003657 | <i>ZMIZ1</i> | chr10:81002109-81003687 | Island |
| cg16565409 | chr17 | 27048223 | <i>RPL23A</i> | chr17:27046856-27047273 | S_Shore |
| cg07211044 | chr8 | 60032983 | <i>TOX</i> | chr8:60030134-60032356 | S_Shore |
| cg02774542 | chr19 | 11517152 | <i>RGL3</i> | chr19:11517059-11517284 | Island |
| cg09978353 | chr17 | 72759282 | <i>SLC9A3R1</i> | | OpenSea |
| cg10583997 | chr2 | 32583696 | <i>BIRC6</i> | chr2:32581746-32583265 | S_Shore |
| cg26372517 | chr1 | 36039159 | <i>TFAP2E</i> | chr1:36038927-36040051 | Island |
| cg06359132 | chr10 | 99160096 | <i>RRP12</i> | chr10:99160814-99161116 | N_Shore |
| cg15130459 | chr5 | 40834228 | <i>SNORD72</i> | chr5:40835241-40835873 | N_Shore |
| cg14371731 | chr10 | 81003175 | <i>ZMIZ1</i> | chr10:81002109-81003687 | Island |
| cg27413508 | chr20 | 30225517 | <i>COX4I2</i> | chr20:30225572-30225852 | N_Shore |
| cg14307477 | chr19 | 51330469 | <i>KLK15</i> | chr19:51330212-51330470 | Island |
| cg22721579 | chr1 | 36787932 | <i>FAM176B</i> | chr1:36786500-36789402 | Island |
| cg00973118 | chr16 | 374570 | <i>AXIN1</i> | chr16:374732-375328 | N_Shore |
| cg06577850 | chr7 | 84002356 | | | OpenSea |
| cg08636573 | chr7 | 100881842 | <i>CLDN15</i> | | OpenSea |
| cg08481464 | chr10 | 77871618 | <i>C10orf11</i> | chr10:77872083-77872305 | N_Shore |
| cg15620905 | chr1 | 44024150 | <i>PTPRF</i> | | OpenSea |
| cg06902698 | chr1 | 151137676 | <i>SCNMI</i> | | OpenSea |
| cg16443812 | chr22 | 50987294 | <i>KLHDC7B</i> | chr22:50984972-50988141 | Island |
| cg26858144 | chr19 | 54466702 | <i>CACNG8</i> | chr19:54466357-54466725 | Island |
| cg25073708 | chr9 | 132083538 | <i>C9orf106</i> | chr9:132082871-132083582 | Island |

| | | | | | |
|------------|-------|-----------|----------------|---------------------------|---------|
| cg01832549 | chr1 | 19774989 | <i>CAPZB</i> | | OpenSea |
| cg24869272 | chr11 | 850296 | <i>TSPAN4</i> | chr11:849087-850982 | Island |
| cg00525011 | chr16 | 122031 | <i>RHBDF1</i> | chr16:122017-122873 | Island |
| cg05202654 | chr16 | 88706241 | <i>IL17C</i> | chr16:88706211-88706492 | Island |
| cg23141851 | chr3 | 14615941 | | chr3:14615366-14615957 | Island |
| cg21570209 | chr19 | 46367987 | <i>FOXA3</i> | chr19:46366202-46366605 | S_Shore |
| cg00873601 | chr12 | 116044025 | | | OpenSea |
| cg19887750 | chr18 | 47813174 | <i>CXXC1</i> | chr18:47813434-47814546 | N_Shore |
| cg14244402 | chr9 | 130681102 | | chr9:130679120-130679612 | S_Shore |
| cg08122386 | chr6 | 26195954 | | chr6:26197070-26197537 | N_Shore |
| cg22828581 | chr9 | 93880502 | | chr9:93879725-93880618 | Island |
| cg18385190 | chr14 | 104940369 | | chr14:104940228-104940466 | Island |
| cg05507459 | chr9 | 91148748 | <i>NXNL2</i> | chr9:91149945-91150648 | N_Shore |
| cg19721065 | chr12 | 113549986 | <i>RASAL1</i> | chr12:113549885-113550165 | Island |
| cg05100067 | chr2 | 2295969 | <i>MYT1L</i> | | OpenSea |
| cg07816074 | chr4 | 8201560 | <i>SH3TC1</i> | | OpenSea |
| cg07588439 | chr2 | 198571554 | <i>MARS2</i> | chr2:198569911-198570948 | S_Shore |
| cg14653977 | chr9 | 136038692 | <i>GBGT1</i> | chr9:136038416-136039577 | Island |
| cg19131476 | chr11 | 64387923 | <i>NRXN2</i> | | OpenSea |
| cg18974224 | chr14 | 105603153 | | chr14:105603310-105603532 | N_Shore |
| cg02152233 | chr1 | 29189789 | <i>OPRDI</i> | chr1:29189307-29189952 | Island |
| cg11499091 | chr17 | 78735302 | <i>RPTOR</i> | | OpenSea |
| cg08498747 | chr17 | 41747669 | | | OpenSea |
| cg06951627 | chr6 | 26196580 | | chr6:26197070-26197537 | N_Shore |
| cg27539527 | chr7 | 156735656 | | chr7:156735245-156735665 | Island |
| cg08157684 | chr1 | 27675934 | <i>SYTL1</i> | chr1:27675919-27678016 | Island |
| cg16065768 | chr12 | 114107712 | | | OpenSea |
| cg26679004 | chr10 | 88023135 | <i>GRID1</i> | chr10:88022640-88023279 | Island |
| cg08234664 | chr3 | 49170668 | <i>LAMB2</i> | | OpenSea |
| cg02575092 | chr17 | 77100187 | <i>HRNBP3</i> | chr17:77099995-77100203 | Island |
| cg16875104 | chr7 | 30635889 | <i>GARS</i> | chr7:30634124-30635058 | S_Shore |
| cg10036013 | chr7 | 4778839 | <i>FOXK1</i> | | OpenSea |
| cg26038649 | chr1 | 27683501 | <i>MAP3K6</i> | chr1:27683277-27683590 | Island |
| cg20956548 | chr19 | 56618060 | <i>ZNF787</i> | chr19:56615088-56615955 | S_Shelf |
| cg05715492 | chr7 | 98991138 | <i>ARPC1B</i> | chr7:98990157-98990922 | S_Shore |
| cg04299200 | chr5 | 534332 | | chr5:535484-535814 | N_Shore |
| cg08182193 | chr14 | 105942243 | <i>CRIP2</i> | chr14:105940325-105941900 | S_Shore |
| cg13599248 | chr6 | 74364700 | <i>SLC17A5</i> | chr6:74363202-74364006 | S_Shore |
| cg05164926 | chr17 | 7255624 | <i>KCTD11</i> | chr17:7254622-7255808 | Island |
| cg01231141 | chr5 | 178692691 | <i>ADAMTS2</i> | | OpenSea |
| cg13541527 | chr6 | 31804078 | <i>C6orf48</i> | chr6:31802598-31802823 | S_Shore |
| cg25255429 | chr17 | 74023633 | <i>EVPL</i> | | OpenSea |
| cg06832677 | chr2 | 119976764 | | | OpenSea |
| cg02557179 | chr16 | 32822612 | | chr16:32822454-32822741 | Island |
| cg26823666 | chr1 | 228658397 | | chr1:228658937-228659152 | N_Shore |
| cg27053299 | chr13 | 100548780 | <i>CLYBL</i> | chr13:100547633-100548911 | Island |
| cg20698421 | chr2 | 65217623 | <i>SLCIA4</i> | chr2:65215598-65217212 | S_Shore |
| cg10364115 | chr7 | 2560976 | <i>LFNG</i> | chr7:2558371-2559967 | S_Shore |
| cg16017144 | chr17 | 77100082 | <i>HRNBP3</i> | chr17:77099995-77100203 | Island |
| cg17868694 | chr7 | 100841533 | <i>MOGAT3</i> | chr7:100845050-100845726 | N_Shelf |
| cg02380135 | chr2 | 149866270 | <i>KIF5C</i> | chr2:149866654-149866890 | N_Shore |
| cg00497905 | chr11 | 76903183 | <i>MYO7A</i> | | OpenSea |
| cg05620261 | chr19 | 34991070 | <i>WTIP</i> | chr19:34988748-34988951 | S_Shelf |
| cg12996100 | chr8 | 11470690 | | chr8:11471014-11471249 | N_Shore |
| cg19392379 | chr10 | 123909426 | <i>TACC2</i> | | OpenSea |
| cg17220161 | chr1 | 203242601 | | chr1:203242519-203242818 | Island |
| cg24247537 | chr11 | 457278 | <i>PTDSS2</i> | chr11:459088-459345 | N_Shore |
| cg02680050 | chr12 | 133179887 | | chr12:133179886-133180351 | Island |
| cg26328687 | chr11 | 96076794 | <i>MAML2</i> | | OpenSea |

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| cg18955367 | chr19 | 49002338 | <i>LMTK3</i> | chr19:49001748-49003087 | Island |
| cg08530537 | chr16 | 68014374 | <i>DPEP3</i> | chr16:68013967-68014545 | Island |
| cg22523072 | chr1 | 248300255 | | | OpenSea |
| cg04359915 | chr10 | 101825029 | <i>CPNI</i> | chr10:101824961-101825186 | Island |
| cg10555800 | chr1 | 168356606 | | | OpenSea |
| cg12845268 | chr10 | 63657363 | | | OpenSea |
| cg24996814 | chr11 | 68417376 | | | OpenSea |
| cg17740434 | chr2 | 179388064 | <i>MIR548N</i> | | OpenSea |
| cg02548777 | chr6 | 170338826 | | chr6:170338214-170339677 | Island |
| cg19280206 | chr3 | 196694932 | <i>PIGZ</i> | chr3:196695319-196697065 | N_Shore |
| cg23928920 | chr15 | 92944756 | <i>ST8SIA2</i> | | OpenSea |
| cg09970481 | chr19 | 42379744 | <i>CD79A</i> | | OpenSea |
| cg20744163 | chr10 | 80999841 | <i>ZMIZ1</i> | chr10:81002109-81003687 | N_Shelf |
| cg16276982 | chr15 | 29968032 | | chr15:29967209-29967621 | S_Shore |
| cg08856033 | chr2 | 121280078 | | chr2:121279842-121280183 | Island |
| cg04634427 | chr15 | 27087315 | | chr15:27083992-27084222 | S_Shelf |
| cg13842556 | chr10 | 88023243 | <i>GRID1</i> | chr10:88022640-88023279 | Island |
| cg03472000 | chr10 | 118084320 | <i>C10orf96</i> | | OpenSea |
| cg01001533 | chr10 | 44184868 | | chr10:44185039-44186132 | N_Shore |
| cg02661079 | chr20 | 44829722 | <i>CDH22</i> | chr20:44829506-44829848 | Island |
| cg18959207 | chr10 | 18549686 | <i>CACNB2</i> | | OpenSea |
| cg20248611 | chr12 | 34371861 | | chr12:34371627-34372304 | Island |
| cg10800226 | chr5 | 1850261 | | chr5:1851342-1851564 | N_Shore |
| cg05348875 | chr2 | 206628625 | <i>NRP2</i> | | OpenSea |
| cg10166889 | chr5 | 61028374 | | | OpenSea |
| cg05962028 | chr12 | 214000 | <i>IQSEC3</i> | chr12:213763-214227 | Island |
| cg18026225 | chr17 | 43198423 | <i>PLCD3</i> | chr17:43198277-43198773 | Island |
| cg15108641 | chr10 | 99263320 | <i>UBTD1</i> | chr10:99257940-99259520 | S_Shelf |
| cg00284153 | chr10 | 135171713 | <i>C10orf125</i> | chr10:135170645-135171954 | Island |
| cg10848724 | chr12 | 123380878 | <i>VPS37B</i> | chr12:123380333-123380894 | Island |
| cg05962511 | chr10 | 102730022 | | chr10:102729299-102729710 | S_Shore |
| cg20228731 | chr7 | 130646051 | <i>FLJ43663</i> | | OpenSea |
| cg21908488 | chr17 | 17991580 | <i>DRG2</i> | chr17:17991080-17991581 | Island |
| cg14971320 | chr10 | 43699070 | <i>RASGEF1A</i> | chr10:43697777-43698177 | S_Shore |
| cg02487233 | chr3 | 107810687 | <i>CD47</i> | chr3:107809375-107810543 | S_Shore |
| cg10003262 | chr17 | 1106589 | | chr17:1106812-1107379 | N_Shore |
| cg00466249 | chr17 | 79269884 | <i>SLC38A10</i> | chr17:79268367-79269467 | S_Shore |
| cg27069188 | chr16 | 285785 | <i>ITFG3</i> | chr16:284478-285395 | S_Shore |
| cg01912040 | chr17 | 1106553 | | chr17:1106812-1107379 | N_Shore |
| cg13809441 | chr6 | 6737631 | | | OpenSea |
| cg12817436 | chr19 | 1068561 | <i>HMHA1</i> | chr19:1068438-1068764 | Island |
| cg00131958 | chr5 | 134073552 | <i>CAMLG</i> | chr5:134074083-134074494 | N_Shore |
| cg12845975 | chr3 | 62305226 | <i>C3orf14</i> | chr3:62304514-62304780 | S_Shore |
| cg11380624 | chr12 | 56222881 | <i>DNAJC14</i> | chr12:56223263-56223598 | N_Shore |
| cg01450228 | chr16 | 27095462 | | | OpenSea |
| cg06376715 | chr1 | 3634918 | <i>TP73</i> | chr1:3634633-3635101 | Island |
| cg04041942 | chr8 | 28747613 | <i>INTS9</i> | chr8:28748070-28748431 | N_Shore |
| cg11718235 | chr19 | 56915184 | <i>ZNF583</i> | chr19:56915356-56915856 | N_Shore |
| cg02849695 | chr1 | 159869960 | <i>CCDC19</i> | chr1:159869901-159870143 | Island |
| cg04870460 | chr1 | 146644887 | <i>PRKAB2</i> | chr1:146643470-146644501 | S_Shore |
| cg09851528 | chr11 | 117778029 | <i>TMPRSS13</i> | | OpenSea |
| cg08479073 | chr1 | 207038584 | <i>IL20</i> | | OpenSea |
| cg03547757 | chr20 | 57425515 | <i>GNASAS</i> | chr20:57426729-57427047 | N_Shore |
| cg13316433 | chr5 | 83140500 | | | OpenSea |
| cg23634348 | chr4 | 967822 | <i>DGKQ</i> | chr4:966732-968137 | Island |
| cg07830134 | chr16 | 1249204 | <i>CACNA1H</i> | chr16:1248853-1249446 | Island |
| cg02604095 | chr9 | 32955790 | | chr9:32955651-32956278 | Island |
| cg17379860 | chr11 | 61159602 | <i>TMEM216</i> | chr11:61159836-61160285 | N_Shore |
| cg20016914 | chr14 | 69263267 | <i>C14orf181</i> | chr14:69259612-69262900 | S_Shore |

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| cg23061114 | chr2 | 95540265 | <i>TEKT4</i> | chr2:95540181-95540715 | Island |
| cg18591727 | chr10 | 8277320 | | | OpenSea |
| cg00075920 | chr5 | 177026190 | <i>B4GALT7</i> | chr5:177026715-177027519 | N_Shore |
| cg24011500 | chr11 | 61049230 | <i>VWCE</i> | | OpenSea |
| cg08044427 | chr2 | 20442131 | | | OpenSea |
| cg13909895 | chr22 | 51066142 | <i>ARSA</i> | chr22:51066107-51067051 | Island |
| cg03506502 | chr4 | 174443567 | | chr4:174443365-174443948 | Island |
| cg17164520 | chr19 | 49540241 | <i>CGB1</i> | | OpenSea |
| cg16316624 | chr11 | 61159649 | <i>TMEM216</i> | chr11:61159836-61160285 | N_Shore |
| cg27554551 | chr16 | 4421486 | <i>VASN</i> | chr16:4421642-4422240 | N_Shore |
| cg12974393 | chr11 | 107779099 | | | OpenSea |
| cg03647724 | chr16 | 10480289 | | chr16:10479686-10480254 | S_Shore |
| cg04078980 | chr1 | 228291486 | <i>C1orf35</i> | chr1:228289669-228291184 | S_Shore |
| cg14820927 | chr18 | 34408166 | <i>C18orf10</i> | chr18:34408558-34409289 | N_Shore |
| cg08209724 | chr17 | 30677138 | <i>MIR632</i> | chr17:30677001-30677460 | Island |
| cg12873476 | chr8 | 142402728 | | chr8:142401533-142402494 | S_Shore |
| cg20758593 | chr5 | 169659863 | <i>C5orf58</i> | chr5:169659830-169660229 | Island |
| cg13850825 | chr18 | 75998893 | | chr18:75998674-75999123 | Island |
| cg11893552 | chr6 | 168045268 | | | OpenSea |
| cg21196136 | chr19 | 48432069 | <i>SNAR-C1</i> | | OpenSea |
| cg19327213 | chr19 | 47988783 | <i>KPTN</i> | chr19:47987329-47987622 | S_Shore |
| cg00142402 | chr17 | 75956190 | | chr17:75953890-75955952 | S_Shore |
| cg08378220 | chr11 | 102678779 | | | OpenSea |
| cg10592521 | chr19 | 1560658 | <i>MEX3D</i> | chr19:1555539-1556866 | S_Shelf |
| cg13221347 | chr10 | 134062614 | <i>STK32C</i> | | OpenSea |
| cg12078229 | chr19 | 19245687 | <i>TMEM161A</i> | chr19:19249182-19249443 | N_Shelf |
| cg21218093 | chr20 | 44600160 | <i>ZNF335</i> | chr20:44599805-44601207 | Island |
| cg26581886 | chr22 | 17090862 | <i>psiTPTE22</i> | chr22:17090455-17091224 | Island |
| cg09313122 | chr11 | 27827916 | | | OpenSea |
| cg12493439 | chr17 | 22203419 | | | OpenSea |
| cg00093095 | chr17 | 76481380 | <i>DNAH17</i> | | OpenSea |
| cg11510523 | chr19 | 12306136 | | chr19:12305552-12306304 | Island |
| cg04517524 | chr14 | 94405342 | <i>ASB2</i> | chr14:94405235-94406170 | Island |
| cg22256960 | chr15 | 77711686 | | chr15:77711625-77712910 | Island |
| cg23934295 | chr14 | 85995655 | <i>FLRT2</i> | chr14:85996494-85996958 | N_Shore |
| cg01435791 | chr19 | 4585323 | | chr19:4584182-4585172 | S_Shore |
| cg00478479 | chr19 | 40904851 | <i>PRX</i> | chr19:40904444-40904955 | Island |
| cg01267709 | chr14 | 23623756 | <i>SLC7A8</i> | | OpenSea |
| cg20306694 | chr12 | 51718251 | <i>BIN2</i> | | OpenSea |
| cg05043349 | chr8 | 65290113 | | chr8:65290108-65290946 | Island |
| cg24346124 | chr19 | 49540073 | <i>CGB1</i> | | OpenSea |
| cg17241310 | chr1 | 91182856 | <i>BARHL2</i> | chr1:91182509-91182857 | Island |
| cg22790377 | chr1 | 228291668 | <i>C1orf35</i> | chr1:228289669-228291184 | S_Shore |
| cg25294185 | chr11 | 65487814 | <i>RNASEH2C</i> | chr11:65487660-65488348 | Island |
| cg03731646 | chr18 | 74499372 | | chr18:74499316-74499641 | Island |
| cg06960461 | chr12 | 132950559 | | | OpenSea |
| cg06026769 | chr12 | 20704492 | <i>PDE3A</i> | chr12:20704525-20706004 | N_Shore |
| cg27257453 | chr16 | 84096458 | <i>MBTPS1</i> | | OpenSea |
| cg11216554 | chr10 | 124638983 | <i>LOC399815</i> | chr10:124638743-124639793 | Island |
| cg03503812 | chr6 | 27357539 | <i>ZNF391</i> | chr6:27356492-27357020 | S_Shore |
| cg07229500 | chr1 | 143467252 | | chr1:143467293-143467675 | N_Shore |
| cg00689340 | chr2 | 74668672 | <i>RTKN</i> | chr2:74667593-74669403 | Island |
| cg03662997 | chr11 | 15963027 | | chr11:15962882-15963223 | Island |
| cg00664205 | chr17 | 77397758 | <i>HRNBP3</i> | | OpenSea |
| cg17762073 | chr6 | 34024220 | <i>GRM4</i> | chr6:34024201-34024457 | Island |
| cg13287964 | chr18 | 77905751 | <i>LOC100130522</i> | chr18:77905297-77905566 | S_Shore |
| cg13050716 | chr3 | 127416580 | <i>MGLL</i> | | OpenSea |
| cg20713174 | chr2 | 239048352 | <i>KLHL30</i> | chr2:239048071-239048454 | Island |
| cg17520215 | chr12 | 100967016 | <i>GAS2L3</i> | chr12:100967293-100967845 | N_Shore |

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| cg25397663 | chr4 | 124622 | <i>ZNF718</i> | chr4:124332-124841 | Island |
| cg14392652 | chr17 | 6927424 | <i>BCL6B</i> | chr17:6925400-6927527 | Island |
| cg16481667 | chr11 | 70023578 | <i>ANO1</i> | chr11:70023057-70023304 | S_Shore |
| cg26649251 | chr19 | 44598564 | <i>ZNF224</i> | chr19:44598374-44598854 | Island |
| cg12125332 | chr14 | 75536561 | <i>FAM164C</i> | chr14:75535825-75536376 | S_Shore |
| cg25963505 | chr7 | 135413023 | <i>SLC13A4</i> | | OpenSea |
| cg04584103 | chr14 | 94405267 | <i>ASB2</i> | chr14:94405235-94406170 | Island |
| cg06663305 | chr17 | 8095813 | | chr17:8092418-8093706 | S_Shelf |
| cg20353001 | chr6 | 1524618 | | chr6:1524153-1524543 | S_Shore |
| cg20777656 | chr15 | 22095674 | | chr15:22094182-22095519 | S_Shore |
| cg07903023 | chr2 | 239048072 | <i>KLHL30</i> | chr2:239048071-239048454 | Island |
| cg18363918 | chr19 | 51829984 | <i>IGLON5</i> | chr19:51830064-51831145 | N_Shore |
| cg15109207 | chr19 | 48614773 | <i>PLA2G4C</i> | | OpenSea |
| cg12497786 | chr6 | 3849577 | <i>FAM50B</i> | chr6:3849271-3851048 | Island |
| cg01993818 | chr14 | 34270437 | <i>NPAS3</i> | chr14:34268946-34270438 | Island |
| cg21923770 | chr17 | 1183159 | <i>TUSC5</i> | | OpenSea |
| cg14590369 | chr19 | 18113585 | <i>ARRDC2</i> | chr19:18111566-18112481 | S_Shore |
| cg11734329 | chr19 | 7460671 | <i>ARHGEF18</i> | chr19:7459779-7460376 | S_Shore |
| cg12135344 | chr1 | 6188120 | <i>CHD5</i> | chr1:6187743-6188235 | Island |
| cg02601352 | chr8 | 21640100 | <i>GFRA2</i> | chr8:21640161-21640365 | N_Shore |
| cg06289138 | chr6 | 33561186 | <i>C6orf227</i> | chr6:33560892-33561189 | Island |
| cg01621764 | chr19 | 8809175 | <i>ACTL9</i> | chr19:8807813-8808794 | S_Shore |
| cg00201779 | chr6 | 72131020 | <i>C6orf155</i> | chr6:72129508-72130756 | S_Shore |
| cg21695020 | chr16 | 68014626 | <i>DPEP3</i> | chr16:68013967-68014545 | S_Shore |
| cg08124399 | chr6 | 74104868 | <i>DDX43</i> | chr6:74104425-74104878 | Island |
| cg10631373 | chr1 | 89457642 | <i>RBMXL1</i> | chr1:89458034-89458604 | N_Shore |
| cg01534423 | chr17 | 18965556 | | chr17:18965477-18965728 | Island |
| cg17395619 | chr19 | 4607540 | | chr19:4607079-4607350 | S_Shore |
| cg20678665 | chr21 | 15096010 | | chr21:15095651-15096479 | Island |
| cg16054907 | chr22 | 50706065 | <i>MAPK11</i> | chr22:50705406-50706553 | Island |
| cg01517680 | chr16 | 49499006 | | chr16:49498889-49499405 | Island |
| cg19839825 | chr19 | 7616011 | <i>PNPLA6</i> | chr19:7614785-7615998 | S_Shore |
| cg22478447 | chr2 | 132588170 | | chr2:132585112-132588283 | Island |
| cg14264194 | chr1 | 211652549 | <i>RD3</i> | chr1:211652306-211652754 | Island |
| cg27009812 | chr16 | 3062597 | <i>CLDN9</i> | chr16:3063679-3063981 | N_Shore |
| cg01969701 | chr11 | 69286145 | | chr11:69285724-69286479 | Island |
| cg04752871 | chr2 | 121412432 | | chr2:121411983-121412315 | S_Shore |
| cg05816193 | chr6 | 26018127 | <i>HIST1H1A</i> | chr6:26020671-26021125 | N_Shelf |
| cg10197057 | chr1 | 42612518 | | chr1:42611485-42611691 | S_Shore |
| cg14836839 | chr17 | 42706084 | | | OpenSea |
| cg01781662 | chr9 | 132387805 | <i>METTL11A</i> | chr9:132388344-132388748 | N_Shore |
| cg19786602 | chr17 | 7966326 | | | OpenSea |
| cg25433316 | chr2 | 10197543 | <i>CYS1</i> | | OpenSea |
| cg22807681 | chr5 | 174622933 | | | OpenSea |
| cg14711997 | chr7 | 150652864 | <i>KCNH2</i> | chr7:150652807-150653080 | Island |
| cg25836232 | chr18 | 12306837 | <i>TUBB6</i> | chr18:12307554-12309043 | N_Shore |
| cg06501295 | chr6 | 147523200 | | chr6:147525374-147525848 | N_Shelf |
| cg19846667 | chr14 | 22191856 | | | OpenSea |
| cg27357306 | chr10 | 63657059 | | | OpenSea |
| cg01601573 | chr4 | 144256835 | <i>GAB1</i> | chr4:144256931-144258527 | N_Shore |
| cg26537280 | chr1 | 95699037 | <i>RWDD3</i> | chr1:95699725-95700142 | N_Shore |
| cg17277199 | chr2 | 24397845 | <i>C2orf84</i> | chr2:24397645-24398194 | Island |
| cg01812146 | chr1 | 94704178 | <i>ARHGAP29</i> | chr1:94702690-94703344 | S_Shore |
| cg04800569 | chr19 | 55888003 | <i>TMEM190</i> | chr19:55889005-55889476 | N_Shore |
| cg20638675 | chr10 | 45374906 | | | OpenSea |
| cg27384088 | chr6 | 72298275 | | chr6:72298274-72298528 | Island |
| cg12560020 | chr15 | 93823645 | | | OpenSea |
| cg06286618 | chr16 | 86987702 | | | OpenSea |
| cg13451000 | chr11 | 60383256 | <i>C11orf64</i> | | OpenSea |

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| cg02566259 | chr4 | 3043199 | | chr4:3043018-3043547 | Island |
| cg20949342 | chr13 | 20969084 | | chr13:20968851-20969220 | Island |
| cg21198712 | chr9 | 98534327 | | | OpenSea |
| cg23008871 | chr17 | 45949743 | | chr17:45949676-45949885 | Island |
| cg12243133 | chr11 | 66823616 | <i>RHOD</i> | chr11:66824118-66824621 | N_Shore |
| cg10697737 | chr19 | 1673498 | | chr19:1671995-1672574 | S_Shore |
| cg09362608 | chr4 | 6659805 | | chr4:6660372-6660817 | N_Shore |
| cg00337187 | chr6 | 3054716 | | | OpenSea |
| cg16844333 | chr10 | 89167457 | | | OpenSea |
| cg00469015 | chr15 | 69744684 | <i>RPLP1</i> | chr15:69745049-69745746 | N_Shore |
| cg00516481 | chr21 | 44073202 | <i>PDE9A</i> | chr21:44073201-44074650 | Island |
| cg24254488 | chr7 | 25991654 | | chr7:25990012-25991320 | S_Shore |
| cg02168442 | chr8 | 102236522 | | chr8:102236153-102236949 | Island |
| cg17181653 | chr6 | 144417537 | <i>SF3B5</i> | chr6:144416219-144416854 | S_Shore |
| cg24168538 | chr4 | 35527016 | | | OpenSea |
| cg25594486 | chr19 | 51165441 | <i>SHANK1</i> | chr19:51165249-51165775 | Island |
| cg23006519 | chr2 | 121223740 | <i>LOC84931</i> | | OpenSea |
| cg01120509 | chr16 | 698230 | <i>WDR90</i> | chr16:698826-700244 | N_Shore |
| cg09465703 | chr16 | 733842 | <i>JMJD8</i> | chr16:729438-735815 | Island |
| cg22005401 | chr19 | 18543829 | <i>SSBP4</i> | chr19:18543828-18549161 | Island |
| cg09663193 | chr17 | 7486821 | <i>MPDU1</i> | chr17:7486285-7487431 | Island |
| cg06931941 | chr17 | 7486770 | <i>MPDU1</i> | chr17:7486285-7487431 | Island |
| cg11874331 | chr17 | 7486562 | <i>MPDU1</i> | chr17:7486285-7487431 | Island |
| cg12244647 | chr22 | 50737978 | <i>PLXNB2</i> | chr22:50737809-50738961 | Island |
| cg13546736 | chr17 | 7486858 | <i>MPDU1</i> | chr17:7486285-7487431 | Island |
| cg02617560 | chr8 | 32785757 | | | OpenSea |
| cg03521774 | chr8 | 81478172 | | | OpenSea |
| cg06653052 | chr19 | 1275167 | <i>C19orf24</i> | chr19:1274469-1276358 | Island |
| cg02482603 | chr1 | 174843754 | <i>RABGAP1L</i> | | OpenSea |
| cg16009311 | chr8 | 119086762 | <i>EXT1</i> | | OpenSea |
| cg06833564 | chr16 | 4665307 | <i>FAM100A</i> | chr16:4664006-4666782 | Island |
| cg18033770 | chr9 | 139259074 | <i>CARD9</i> | chr9:139257842-139259075 | Island |
| cg03871267 | chr5 | 67483475 | | | OpenSea |
| cg16856833 | chr3 | 87138640 | | chr3:87138225-87138546 | S_Shore |
| cg11980800 | chr1 | 9748107 | <i>PIK3CD</i> | chr1:9749295-9750228 | N_Shore |
| cg21330831 | chr6 | 33283092 | <i>ZBTB22</i> | chr6:33282855-33283196 | Island |
| cg02213139 | chr1 | 85527754 | <i>WDR63</i> | | OpenSea |
| cg03870261 | chr19 | 2428514 | <i>LMNB2</i> | chr19:2428349-2428731 | Island |
| cg10955566 | chr1 | 1003126 | | chr1:1002663-1005318 | Island |
| cg09459982 | chr6 | 33386556 | <i>CUTA</i> | chr6:33385678-33386262 | S_Shore |
| cg21653641 | chr19 | 49222892 | <i>MAMSTR</i> | chr19:49223054-49223312 | N_Shore |
| cg13540341 | chr19 | 49222985 | <i>MAMSTR</i> | chr19:49223054-49223312 | N_Shore |
| cg03464655 | chr2 | 165811982 | <i>SLC38A11</i> | | OpenSea |
| cg06505619 | chr16 | 698072 | <i>WDR90</i> | chr16:698826-700244 | N_Shore |
| cg10404009 | chr19 | 49223845 | <i>MAMSTR</i> | chr19:49223833-49224276 | Island |
| cg10599948 | chr19 | 49244571 | <i>IZUMO1</i> | chr19:49242018-49242962 | S_Shore |
| cg01607625 | chr6 | 32847830 | <i>PPP1R2P1</i> | chr6:32847498-32847846 | Island |
| cg26343883 | chr2 | 164205032 | | chr2:164204740-164205039 | Island |
| cg22987448 | chr19 | 8591364 | <i>MYO1F</i> | chr19:8591294-8591842 | Island |
| cg23995446 | chr19 | 7934807 | | chr19:7933263-7934898 | Island |
| cg18804667 | chr5 | 58883392 | <i>PDE4D</i> | | OpenSea |
| cg09413013 | chr17 | 76137024 | <i>TMC8</i> | chr17:76136513-76137184 | Island |
| cg27475923 | chr11 | 63530997 | <i>C11orf95</i> | chr11:63529888-63531834 | Island |
| cg13526264 | chr6 | 113886304 | | | OpenSea |
| cg16404106 | chr11 | 86085623 | <i>CCDC81</i> | chr11:86085693-86086006 | N_Shore |
| cg19878214 | chr5 | 70742551 | | | OpenSea |
| cg27454064 | chr12 | 64215611 | | chr12:64215499-64215990 | Island |
| cg11334165 | chr5 | 145758782 | | chr5:145758569-145758882 | Island |
| cg01856645 | chr5 | 78365647 | <i>DMGDH</i> | chr5:78365298-78365711 | Island |

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| cg05358404 | chr20 | 62288950 | <i>RTEL1</i> | chr20:62288941-62290058 | Island |
| cg27576241 | chr1 | 155034570 | <i>ADAM15</i> | chr1:155034925-155036578 | N_Shore |
| cg22198044 | chr4 | 2819614 | <i>SH3BP2</i> | chr4:2819499-2820429 | Island |
| cg15967501 | chr19 | 49143404 | <i>SEC1</i> | chr19:49140156-49141131 | S_Shelf |
| cg26209676 | chr19 | 56154382 | <i>ZNF581</i> | chr19:56154041-56154405 | Island |
| cg04181892 | chr2 | 54936027 | | | OpenSea |
| cg16717549 | chr21 | 45705699 | <i>AIRE</i> | chr21:45705428-45706044 | Island |
| cg13069100 | chr1 | 155035008 | <i>ADAM15</i> | chr1:155034925-155036578 | Island |
| cg20734996 | chr17 | 7234027 | <i>NEURL4</i> | chr17:7232330-7233151 | S_Shore |
| cg21399832 | chr4 | 117847410 | | chr4:117847087-117847522 | Island |
| cg07716847 | chr16 | 67233549 | <i>ELMO3</i> | chr16:67233032-67233862 | Island |
| cg12176783 | chr20 | 62694000 | <i>TCEA2</i> | chr20:62693942-62695282 | Island |
| cg12082025 | chr19 | 1064218 | <i>ABCA7</i> | chr19:1063544-1064265 | Island |
| cg08941173 | chr11 | 125034971 | <i>PKNOX2</i> | chr11:125034896-125036426 | Island |
| cg27168291 | chr6 | 33282997 | <i>ZBTB22</i> | chr6:33282855-33283196 | Island |
| cg11921736 | chr3 | 113160437 | <i>WDR52</i> | chr3:113160299-113160641 | Island |
| cg21235532 | chr18 | 19476870 | | chr18:19476852-19477103 | Island |
| cg02472291 | chr8 | 67783002 | <i>C8orf45</i> | | OpenSea |
| cg23891273 | chr12 | 102036400 | <i>MYBPC1</i> | chr12:102036253-102036461 | Island |
| cg23378165 | chr17 | 9550256 | <i>USP43</i> | chr17:9548389-9549616 | S_Shore |
| cg16356856 | chr1 | 74663583 | <i>LRR1Q3</i> | chr1:74663826-74664035 | N_Shore |
| cg16415457 | chr3 | 23713441 | | | OpenSea |
| cg24602417 | chr8 | 102236283 | | chr8:102236153-102236949 | Island |
| cg08122232 | chr17 | 74100132 | <i>EXOC7</i> | chr17:74099738-74100055 | S_Shore |
| cg25043559 | chr18 | 12948780 | <i>SEH1L</i> | chr18:12947924-12948654 | S_Shore |
| cg22040809 | chr6 | 26522578 | <i>HCG11</i> | chr6:26521947-26522579 | Island |
| cg18605031 | chr3 | 49314155 | <i>C3orf62</i> | chr3:49314437-49314815 | N_Shore |
| cg15352671 | chr11 | 1331497 | <i>LOC255512</i> | chr11:1330390-1331498 | Island |
| cg20318748 | chr20 | 25605178 | <i>NANP</i> | chr20:25603815-25605187 | Island |
| cg13951491 | chr1 | 45793032 | <i>HPDL</i> | chr1:45792419-45793301 | Island |
| cg03614916 | chr18 | 22007271 | <i>IMPACT</i> | chr18:22006310-22007007 | S_Shore |
| cg23725986 | chr2 | 75938438 | <i>C2orf3</i> | chr2:75937657-75938139 | S_Shore |
| cg12924095 | chr5 | 151150029 | <i>G3BP1</i> | chr5:151150014-151152086 | Island |
| cg06638811 | chr9 | 137030555 | <i>RNU6ATAC</i> | chr9:137028717-137030556 | Island |
| cg08962798 | chr5 | 179106333 | <i>CBY3</i> | chr5:179105169-179106412 | Island |
| cg06480265 | chr6 | 24722060 | | chr6:24720387-24721920 | S_Shore |
| cg09159285 | chr1 | 6664134 | <i>KLHL21</i> | chr1:6661776-6663844 | S_Shore |
| cg14611683 | chr1 | 45452580 | <i>EIF2B3</i> | chr1:45452037-45452444 | S_Shore |
| cg18407136 | chr15 | 83681092 | <i>C15orf40</i> | chr15:83680007-83680532 | S_Shore |
| cg08602346 | chr13 | 113242997 | <i>TUBGCP3</i> | chr13:113241711-113241925 | S_Shore |
| cg14593033 | chr17 | 56296980 | <i>MKS1</i> | chr17:56296488-56296842 | S_Shore |
| cg12065943 | chr17 | 19881925 | <i>AKAP10</i> | chr17:19883325-19883610 | N_Shore |
| cg23373640 | chr14 | 65696480 | | | OpenSea |
| cg05465916 | chr17 | 7819762 | <i>LOC284023</i> | chr17:7818938-7819763 | Island |
| cg01039401 | chr12 | 3070406 | <i>TEAD4</i> | chr12:3067960-3069444 | S_Shore |
| cg06975979 | chr7 | 150020025 | <i>LRRC61</i> | chr7:150019950-150020752 | Island |
| cg21498471 | chr19 | 33183713 | <i>NUDT19</i> | chr19:33182609-33183562 | S_Shore |
| cg18427905 | chr2 | 232825958 | <i>DIS3L2</i> | chr2:232826077-232826836 | N_Shore |
| cg10045137 | chr2 | 25383940 | <i>POMC</i> | chr2:25383939-25384763 | Island |
| cg10441379 | chr5 | 72793693 | <i>BTF3</i> | chr5:72794040-72794641 | N_Shore |
| cg23915527 | chr1 | 161368787 | | chr1:161368863-161369932 | N_Shore |
| cg14870223 | chr3 | 39093076 | <i>WDR48</i> | chr3:39093469-39094025 | N_Shore |
| cg06868955 | chr12 | 54069197 | <i>ATP5G2</i> | chr12:54069625-54070177 | N_Shore |
| cg13430552 | chr2 | 25427652 | | chr2:25427101-25427577 | S_Shore |
| cg14576824 | chr1 | 213224402 | <i>RPS6KC1</i> | chr1:213224611-213224867 | N_Shore |
| cg01404873 | chr13 | 50701050 | <i>DLEU2</i> | chr13:50697984-50702286 | Island |
| cg06939851 | chr1 | 226112534 | <i>PYCR2</i> | chr1:226111642-226112552 | Island |
| cg04220541 | chr8 | 48172992 | <i>KIAA0146</i> | chr8:48172791-48172993 | Island |
| cg10105237 | chr8 | 135726091 | <i>ZFAT</i> | chr8:135724770-135725552 | S_Shore |

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| cg26751513 | chr16 | 1542910 | <i>TELO2</i> | chr16:1543098-1544426 | N_Shore |
| cg24435209 | chr22 | 17640972 | <i>CECR5</i> | chr22:17639481-17640714 | S_Shore |
| cg18829411 | chr21 | 40722023 | <i>HMGNI</i> | chr21:40720185-40721625 | S_Shore |
| cg12265130 | chr11 | 59437344 | <i>PATL1</i> | chr11:59436201-59437232 | S_Shore |
| cg12151328 | chr3 | 112709521 | <i>GTPBP8</i> | chr3:112709666-112710270 | N_Shore |
| cg14959908 | chr20 | 2736884 | <i>EBF4</i> | chr20:2732746-2733630 | S_Shelf |
| cg03456393 | chr3 | 193310565 | <i>OPA1</i> | chr3:193310824-193311188 | N_Shore |
| cg03804621 | chr10 | 124638756 | <i>FAM24B</i> | chr10:124638743-124639793 | Island |
| cg26312542 | chr11 | 112038104 | <i>TEX12</i> | | OpenSea |
| cg00373499 | chr5 | 137224723 | <i>PKD2L2</i> | chr5:137224986-137225477 | N_Shore |
| cg04861271 | chr14 | 23789531 | <i>PABPN1</i> | chr14:23790212-23790659 | N_Shore |
| cg05072008 | chr7 | 50518647 | <i>FIGNLI</i> | chr7:50517627-50518668 | Island |
| cg08558340 | chr7 | 100472263 | <i>SRRT</i> | chr7:100472375-100473393 | N_Shore |
| cg15661865 | chr2 | 27632926 | <i>PPM1G</i> | chr2:27631884-27632822 | S_Shore |
| cg13028113 | chr5 | 60458778 | <i>C5orf43</i> | chr5:60457840-60458654 | S_Shore |
| cg14307853 | chr9 | 91924749 | <i>CKS2</i> | chr9:91925372-91926639 | N_Shore |
| cg10432947 | chr4 | 2062441 | <i>NAT8L</i> | chr4:2059928-2063181 | Island |
| cg17055585 | chr5 | 25190850 | | chr5:25190503-25191113 | Island |
| cg22993195 | chr3 | 49756301 | <i>AMIGO3</i> | chr3:49755763-49757317 | Island |
| cg05868531 | chr2 | 232348602 | | chr2:232348216-232348866 | Island |
| cg22189786 | chr22 | 42395067 | <i>WBP2NL</i> | chr22:42394589-42395255 | Island |
| cg16740427 | chr22 | 42469976 | <i>FAM109B</i> | chr22:42470035-42470669 | N_Shore |
| cg25825627 | chr12 | 127631198 | | chr12:127630511-127631199 | Island |
| cg14625636 | chr9 | 100000026 | <i>KIAA1529</i> | chr9:100000463-100000820 | N_Shore |
| cg01290153 | chr19 | 55987415 | <i>ZNF628</i> | chr19:55987544-55988171 | N_Shore |
| cg26440467 | chr8 | 145654605 | <i>VPS28</i> | chr8:145654517-145654810 | Island |
| cg16245698 | chr18 | 43355989 | | chr18:43355318-43355698 | S_Shore |
| cg04036182 | chr15 | 45458818 | | chr15:45458801-45459580 | Island |
| cg11367159 | chr12 | 110044531 | | | OpenSea |
| cg05950212 | chr1 | 149860711 | <i>HIST2H2AB</i> | chr1:149857769-149859470 | S_Shore |
| cg05742863 | chr22 | 45809319 | <i>SMC1B</i> | chr22:45809191-45809953 | Island |
| cg17545182 | chr1 | 247694041 | <i>LOC148824</i> | chr1:247694035-247694501 | Island |
| cg12403142 | chr1 | 92012408 | | chr1:92012336-92012656 | Island |
| cg20744362 | chr22 | 50050164 | <i>C22orf34</i> | | OpenSea |
| cg11724970 | chr7 | 27182493 | <i>HOXA5</i> | chr7:27182613-27185562 | N_Shore |
| cg20974609 | chr7 | 27181671 | <i>HOXA5</i> | chr7:27182613-27185562 | N_Shore |
| cg23454797 | chr7 | 27183990 | <i>HOXA5</i> | chr7:27182613-27185562 | Island |
| cg09343092 | chr7 | 27185282 | <i>HOXA6</i> | chr7:27182613-27185562 | Island |
| cg03368099 | chr7 | 27184521 | <i>HOXA5</i> | chr7:27182613-27185562 | Island |
| cg17432857 | chr7 | 27184438 | <i>HOXA5</i> | chr7:27182613-27185562 | Island |
| cg20517050 | chr7 | 27183806 | <i>HOXA5</i> | chr7:27182613-27185562 | Island |
| cg05928186 | chr7 | 27187102 | <i>HOXA6</i> | chr7:27186927-27187692 | Island |
| cg23129930 | chr7 | 27186993 | <i>HOXA6</i> | chr7:27186927-27187692 | Island |
| cg05579037 | chr7 | 27184853 | | chr7:27182613-27185562 | Island |
| cg09650488 | chr7 | 1687007 | | chr7:1686716-1687008 | Island |
| cg27151303 | chr7 | 27184821 | | chr7:27182613-27185562 | Island |
| cg14853974 | chr17 | 8218887 | <i>ARHGEF15</i> | | OpenSea |
| cg04635635 | chr15 | 30163726 | | | OpenSea |
| cg02341556 | chr11 | 118781978 | <i>BCL9L</i> | chr11:118781060-118781732 | S_Shore |
| cg01687997 | chr7 | 1083072 | <i>C7orf50</i> | chr7:1084387-1084595 | N_Shore |
| cg04265576 | chr7 | 27187372 | <i>HOXA6</i> | chr7:27186927-27187692 | Island |
| cg07278425 | chr7 | 27137922 | | chr7:27135342-27136736 | S_Shore |
| cg23256343 | chr15 | 30163825 | | | OpenSea |
| cg05612279 | chr12 | 52241471 | | chr12:52240772-52242547 | Island |
| cg10601100 | chr3 | 64085148 | <i>PRICKLE2</i> | | OpenSea |
| cg03529432 | chr7 | 27187502 | <i>HOXA6</i> | chr7:27186927-27187692 | Island |
| cg24460369 | chr12 | 109549041 | | chr12:109548899-109549174 | Island |
| cg07441944 | chr11 | 44623459 | <i>CD82</i> | | OpenSea |
| cg24168308 | chr21 | 27372387 | <i>APP</i> | | OpenSea |

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| cg08319974 | chr6 | 164506861 | | | OpenSea |
| cg20370909 | chr7 | 4859229 | <i>RADIL</i> | chr7:4855990-4856212 | S_Shelf |
| cg17461234 | chr12 | 133373022 | <i>GOLGA3</i> | chr12:133369195-133370290 | S_Shelf |
| cg04226804 | chr1 | 16556249 | | chr1:16553326-16553660 | S_Shelf |
| cg25694032 | chr6 | 164507164 | | | OpenSea |
| cg11246938 | chr12 | 115112433 | <i>TBX3</i> | chr12:115112014-115112627 | Island |
| cg08380478 | chr10 | 132683454 | | | OpenSea |
| cg12444411 | chr7 | 2802554 | <i>GNA12</i> | chr7:2802440-2802698 | Island |
| cg20710519 | chr5 | 6775909 | | | OpenSea |
| cg03607916 | chr2 | 58478696 | | chr2:58478734-58478938 | N_Shore |
| cg10651121 | chr12 | 109549097 | | chr12:109548899-109549174 | Island |
| cg04053108 | chr12 | 6166028 | <i>VWF</i> | chr12:6165941-6166257 | Island |
| cg10482201 | chr16 | 3493423 | <i>ZNF597</i> | chr16:3493098-3493569 | Island |
| cg24095222 | chr5 | 161178787 | | | OpenSea |
| cg16278496 | chr14 | 98444476 | <i>C14orf64</i> | | OpenSea |
| cg00232832 | chr15 | 30163660 | | | OpenSea |
| cg27365295 | chr16 | 1483170 | | chr16:1482551-1483201 | Island |
| cg08959039 | chr13 | 111062266 | <i>COL4A2</i> | | OpenSea |
| cg13713522 | chr8 | 141109051 | <i>TRAPPC9</i> | chr8:141107837-141110984 | Island |
| cg11874426 | chr11 | 118781731 | <i>BCL9L</i> | chr11:118781060-118781732 | Island |
| cg23496597 | chr20 | 57463725 | <i>GNAS</i> | chr20:57463652-57467739 | Island |
| cg22469274 | chr7 | 27187553 | <i>HOXA6</i> | chr7:27186927-27187692 | Island |
| cg23355997 | chr17 | 7154831 | <i>DULLARD</i> | chr17:7154424-7156126 | Island |
| cg19163395 | chr17 | 42164433 | <i>HDAC5</i> | | OpenSea |
| cg07593523 | chr5 | 58082800 | <i>RAB3C</i> | | OpenSea |
| cg19254235 | chr13 | 48895173 | <i>RBI</i> | chr13:48892635-48893857 | S_Shore |
| cg09954631 | chr9 | 94648732 | <i>ROR2</i> | chr9:94648653-94648964 | Island |
| cg22872349 | chr15 | 81410745 | | chr15:81410715-81411067 | Island |
| cg00383793 | chr3 | 50488162 | <i>CACNA2D2</i> | | OpenSea |
| cg14660024 | chr17 | 7154518 | <i>C17orf81</i> | chr17:7154424-7156126 | Island |
| cg06388363 | chr6 | 164507305 | | | OpenSea |
| cg02088785 | chr13 | 99223336 | <i>STK24</i> | | OpenSea |
| cg03906434 | chr7 | 27231819 | | chr7:27231805-27233097 | Island |
| cg03395546 | chr19 | 41222599 | <i>ADCK4</i> | chr19:41222598-41223162 | Island |
| cg22755142 | chr2 | 16243377 | | | OpenSea |
| cg06495710 | chr2 | 167449521 | | | OpenSea |
| cg14160422 | chr19 | 10735548 | <i>SLC44A2</i> | chr19:10735999-10736396 | N_Shore |
| cg23712970 | chr14 | 23540735 | <i>ACIN1</i> | | OpenSea |
| cg15942979 | chr8 | 22497061 | <i>BIN3</i> | | OpenSea |
| cg02324835 | chr8 | 28919075 | | | OpenSea |
| cg14614581 | chr10 | 73844130 | <i>SPOCK2</i> | chr10:73846806-73848233 | N_Shelf |
| cg01156816 | chr4 | 132984152 | | | OpenSea |
| cg22040889 | chr11 | 64073594 | <i>ESRRA</i> | chr11:64072064-64073914 | Island |
| cg01748573 | chr20 | 57463530 | <i>GNAS</i> | chr20:57463652-57467739 | N_Shore |
| cg01320698 | chr1 | 9788517 | <i>PIK3CD</i> | chr1:9790292-9790704 | N_Shore |
| cg16522260 | chr11 | 114958426 | | | OpenSea |
| cg20337103 | chr11 | 118781778 | <i>BCL9L</i> | chr11:118781060-118781732 | S_Shore |
| cg01368900 | chr3 | 13113959 | <i>IQSEC1</i> | chr3:13114627-13115245 | N_Shore |
| cg23198262 | chr14 | 22978073 | | | OpenSea |
| cg13138954 | chr15 | 22546672 | | chr15:22545218-22547291 | Island |
| cg22989533 | chr13 | 82264223 | | | OpenSea |
| cg10543953 | chr15 | 35529612 | <i>LOC723972</i> | | OpenSea |
| cg02478023 | chr19 | 57351322 | <i>MIMT1</i> | chr19:57351283-57351995 | Island |
| cg16059991 | chr15 | 99975470 | | | OpenSea |
| cg07659054 | chr7 | 27134225 | <i>HOXA1</i> | chr7:27134097-27134303 | Island |
| cg09677938 | chr13 | 23423308 | | chr13:23422687-23422896 | S_Shore |
| cg08867825 | chr1 | 102312608 | <i>OLFM3</i> | | OpenSea |
| cg05637296 | chr17 | 76129475 | <i>TMCS8</i> | chr17:76127521-76128406 | S_Shore |
| cg01525879 | chr11 | 67207498 | <i>CORO1B</i> | chr11:67203319-67203662 | S_Shelf |

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| cg27376514 | chr17 | 17058422 | <i>MPRIIP</i> | chr17:17061857-17062186 | N_Shelf |
| cg18751141 | chr7 | 27138173 | | chr7:27135342-27136736 | S_Shore |
| cg10046893 | chr14 | 101456920 | <i>SNORD114-30</i> | | OpenSea |
| cg08884752 | chr1 | 2162001 | <i>SKI</i> | chr1:2158212-2161173 | S_Shore |
| cg03431524 | chr7 | 100142441 | <i>AGFG2</i> | | OpenSea |
| cg20918563 | chr3 | 196263520 | | | OpenSea |
| cg07512258 | chr10 | 75619420 | <i>CAMK2G</i> | | OpenSea |
| cg14192130 | chr6 | 167535764 | <i>CCR6</i> | | OpenSea |
| cg21417130 | chr1 | 19400922 | | | OpenSea |
| cg14506192 | chr12 | 122711988 | <i>DIABLO</i> | chr12:122710054-122711371 | S_Shore |
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| cg07757252 | chr3 | 52274561 | <i>TWF2</i> | chr3:52272839-52273631 | S_Shore |
| cg00537673 | chr6 | 43141823 | <i>SRF</i> | chr6:43142013-43142217 | N_Shore |
| cg02340818 | chr8 | 145808436 | <i>KIAA1688</i> | chr8:145806258-145806713 | S_Shore |
| cg16265553 | chr1 | 226911669 | <i>ITPKB</i> | | OpenSea |
| cg22471075 | chr22 | 49765229 | | chr22:49764995-49765272 | Island |
| cg26374305 | chr14 | 101293856 | <i>MEG3</i> | chr14:101293427-101294433 | Island |
| cg16880946 | chr7 | 27188465 | <i>HOXA6</i> | chr7:27190274-27191115 | N_Shore |
| cg22859054 | chr6 | 32847548 | <i>PPP1R2P1</i> | chr6:32847498-32847846 | Island |
| cg27500647 | chr19 | 51602230 | <i>CTUI</i> | chr19:51601822-51602260 | Island |
| cg15655154 | chr3 | 113604241 | <i>GRAMD1C</i> | chr3:113603863-113604246 | Island |
| cg08446215 | chr11 | 2721366 | <i>KCNQ1OT1</i> | chr11:2720410-2722087 | Island |
| cg01010328 | chr1 | 156551873 | <i>TTC24</i> | | OpenSea |
| cg01424562 | chr14 | 69256677 | <i>ZFP36L1</i> | chr14:69256676-69257036 | Island |
| cg14179389 | chr1 | 92947961 | <i>GFI1</i> | chr1:92945907-92952609 | Island |
| cg21106946 | chr13 | 65533500 | | | OpenSea |
| cg05346902 | chr19 | 47910374 | <i>MEIS3</i> | chr19:47910107-47910563 | Island |
| cg08145373 | chr11 | 2407008 | <i>CD81</i> | chr11:2406711-2406927 | S_Shore |
| cg06313676 | chr16 | 87978974 | | | OpenSea |
| cg24437859 | chr12 | 7066614 | <i>PTPN6</i> | | OpenSea |
| cg05321594 | chr8 | 330175 | | | OpenSea |
| cg02317251 | chr4 | 10116515 | <i>WDR1</i> | chr4:10117575-10118952 | N_Shore |
| cg21705506 | chr17 | 33842181 | <i>SLFN12L</i> | | OpenSea |
| cg25550279 | chr7 | 53254983 | | chr7:53254982-53255204 | Island |
| cg17220933 | chr1 | 206729613 | <i>RASSF5</i> | chr1:206730397-206730908 | N_Shore |
| cg21463790 | chr7 | 14025907 | <i>ETV1</i> | chr7:14029378-14029593 | N_Shelf |
| cg04042333 | chr17 | 1104665 | | chr17:1106812-1107379 | N_Shelf |
| cg20062691 | chr1 | 949392 | <i>ISG15</i> | chr1:949329-949851 | Island |
| cg18138400 | chr11 | 64073849 | <i>ESRRA</i> | chr11:64072064-64073914 | Island |
| cg07899411 | chr12 | 123604434 | | | OpenSea |
| cg23511824 | chr14 | 54816172 | | | OpenSea |
| cg06666376 | chr19 | 3480596 | <i>C19orf77</i> | chr19:3481782-3482048 | N_Shore |
| cg19655952 | chr7 | 114055204 | <i>FOXP2</i> | | OpenSea |
| cg08659421 | chr16 | 3117862 | <i>IL32</i> | | OpenSea |
| cg14658607 | chr2 | 139660341 | | chr2:139660186-139660395 | Island |
| cg09016797 | chr7 | 155790956 | | | OpenSea |
| cg08169020 | chr14 | 69256888 | <i>ZFP36L1</i> | chr14:69256676-69257036 | Island |
| cg09107344 | chr12 | 53612734 | <i>RARG</i> | chr12:53613716-53615103 | N_Shore |
| cg25198255 | chr10 | 134878094 | | chr10:134876330-134878539 | Island |
| cg17995557 | chr10 | 126289971 | <i>LHPP</i> | | OpenSea |
| cg17282688 | chr1 | 11516947 | | | OpenSea |
| cg00367649 | chr3 | 66702975 | | | OpenSea |
| cg21565496 | chr13 | 40762150 | | | OpenSea |
| cg17001153 | chr1 | 206742216 | <i>RASSF5</i> | | OpenSea |
| cg08883853 | chr7 | 1026168 | <i>CYP2W1</i> | chr7:1026167-1026395 | Island |
| cg02519218 | chr12 | 133424286 | <i>CHFR</i> | | OpenSea |
| cg23901967 | chr17 | 36890321 | <i>CISD3</i> | chr17:36886108-36886525 | S_Shelf |
| cg00106345 | chr7 | 27138396 | | chr7:27135342-27136736 | S_Shore |
| cg23629187 | chr8 | 125576109 | <i>MTSS1</i> | | OpenSea |

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| cg08196561 | chr16 | 87525539 | <i>ZCCHC14</i> | | OpenSea |
| cg00689612 | chr17 | 76899627 | <i>TIMP2</i> | chr17:76897078-76897298 | S_Shelf |
| cg22459924 | chr19 | 2607850 | <i>GNG7</i> | chr19:2607725-2607967 | Island |
| cg12756527 | chr10 | 11284548 | <i>CUGBP2</i> | | OpenSea |
| cg05066096 | chr7 | 4781872 | <i>FOXK1</i> | chr7:4784820-4785058 | N_Shelf |
| cg01490040 | chr2 | 151399444 | | | OpenSea |
| cg10782923 | chr12 | 56329731 | <i>DGKA</i> | chr12:56329518-56329790 | Island |
| cg11374834 | chr3 | 75263691 | | | OpenSea |
| cg15526535 | chr1 | 12238546 | <i>TNFRSF1B</i> | | OpenSea |
| cg17922695 | chr17 | 75451809 | <i>42987</i> | chr17:75447477-75447821 | S_Shelf |
| cg01246390 | chr12 | 9392651 | | chr12:9392459-9392686 | Island |
| cg16222326 | chr8 | 1708438 | | chr8:1711234-1712654 | N_Shelf |
| cg11733958 | chr17 | 17023057 | <i>MPRIIP</i> | | OpenSea |
| cg02082843 | chr14 | 92339595 | <i>FBLN5</i> | | OpenSea |
| cg16265859 | chr1 | 19401069 | <i>UBR4</i> | | OpenSea |
| cg26103719 | chr14 | 92336250 | <i>FBLN5</i> | | OpenSea |
| cg02668248 | chr19 | 16437789 | <i>KLF2</i> | chr19:16435202-16438064 | Island |
| cg06201717 | chr1 | 2949633 | | | OpenSea |
| cg05932042 | chr17 | 40822653 | <i>PLEKHH3</i> | chr17:40821935-40823573 | Island |
| cg16898066 | chr6 | 25726437 | <i>HIST1H2BA</i> | chr6:25726454-25726722 | N_Shore |
| cg05541267 | chr3 | 50647374 | <i>CISH</i> | chr3:50648939-50649829 | N_Shore |
| cg13390570 | chr5 | 1255616 | <i>TERT</i> | chr5:1256968-1257222 | N_Shore |
| cg21422623 | chr1 | 226912213 | <i>ITPKB</i> | | OpenSea |
| cg02640489 | chr2 | 219153935 | <i>PNKD</i> | chr2:219156977-219157380 | N_Shelf |
| cg25526001 | chr10 | 85939451 | <i>C10orf99</i> | | OpenSea |
| cg22241838 | chr11 | 60680006 | <i>TMEM109</i> | chr11:60681552-60682268 | N_Shore |
| cg16349277 | chr4 | 83323642 | | | OpenSea |
| cg17972213 | chr1 | 101704898 | <i>SIPRI</i> | chr1:101701785-101702068 | S_Shelf |
| cg21918313 | chr2 | 73496203 | <i>FBXO41</i> | chr2:73495920-73496910 | Island |
| cg24231380 | chr2 | 242813914 | <i>C2orf85</i> | chr2:242815056-242815599 | N_Shore |
| cg08978665 | chr16 | 3115707 | <i>IL32</i> | | OpenSea |
| cg16235962 | chr11 | 118754507 | <i>CXCR5</i> | | OpenSea |
| cg00589791 | chr5 | 30429329 | | | OpenSea |
| cg25382214 | chr1 | 3105252 | <i>PRDM16</i> | chr1:3104956-3105253 | Island |
| cg14843920 | chr17 | 75451932 | <i>42987</i> | | OpenSea |
| cg22572362 | chr5 | 501938 | <i>SLC9A3</i> | chr5:501835-502075 | Island |
| cg01984743 | chr5 | 172751331 | <i>STC2</i> | chr5:172754056-172757098 | N_Shelf |
| cg15607708 | chr19 | 54041308 | <i>ZNF331</i> | chr19:54040812-54041857 | Island |
| cg15079934 | chr11 | 1892307 | <i>LSP1</i> | chr11:1892037-1892556 | Island |
| cg03690763 | chr11 | 133734501 | | chr11:133734701-133735164 | N_Shore |
| cg25278298 | chr4 | 1305282 | <i>MAEA</i> | chr4:1303490-1303835 | S_Shore |
| cg26146569 | chr15 | 31637592 | <i>KLF13</i> | | OpenSea |
| cg08059678 | chr16 | 70728425 | <i>VAC14</i> | | OpenSea |
| cg04387073 | chr6 | 165415258 | | | OpenSea |
| cg04252928 | chr16 | 89168599 | <i>ACSF3</i> | chr16:89167116-89167482 | S_Shore |
| cg07692540 | chr3 | 38244838 | <i>OXSRI</i> | | OpenSea |
| cg04086531 | chr16 | 49732376 | <i>ZNF423</i> | chr16:49732348-49732712 | Island |
| cg12172478 | chr3 | 16357591 | <i>RFTN1</i> | | OpenSea |
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| cg00357958 | chr12 | 123215010 | <i>GPR81</i> | | OpenSea |
| cg02231590 | chr2 | 231737958 | <i>ITM2C</i> | | OpenSea |
| cg08039560 | chr21 | 45575832 | | chr21:45575451-45575833 | Island |
| cg15339435 | chr11 | 128169380 | | | OpenSea |
| cg11525252 | chr1 | 158041312 | <i>KIRREL</i> | | OpenSea |
| cg09312904 | chr1 | 117281442 | | chr1:117284383-117284627 | N_Shelf |
| cg00517080 | chr11 | 134098583 | <i>VPS26B</i> | chr11:134093696-134095491 | S_Shelf |
| cg09117448 | chr16 | 31439393 | <i>COX6A2</i> | chr16:31438891-31439682 | Island |
| cg06517940 | chr1 | 32717620 | <i>LCK</i> | chr1:32713918-32714186 | S_Shelf |
| cg26888227 | chr10 | 45697308 | | chr10:45693718-45694890 | S_Shelf |

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| cg25323888 | chr6 | 11933336 | | | OpenSea |
| cg07651189 | chr4 | 88753434 | <i>MEPE</i> | | OpenSea |
| cg04819180 | chr17 | 80829157 | <i>TBCD</i> | chr17:80829533-80829871 | N_Shore |
| cg00669330 | chr2 | 242810917 | <i>C2orf85</i> | chr2:242808405-242808618 | S_Shelf |
| cg10963061 | chr1 | 158147729 | | chr1:158147433-158147854 | Island |
| cg01579052 | chr16 | 788035 | <i>NARFL</i> | chr16:787070-787327 | S_Shore |
| cg19528654 | chr11 | 67251154 | <i>AIP</i> | chr11:67250344-67250864 | S_Shore |
| cg20997320 | chr21 | 47845610 | <i>PCNT</i> | chr21:47845595-47845864 | Island |
| cg01134260 | chr7 | 63924733 | | chr7:63924400-63924741 | Island |
| cg08109681 | chr6 | 166825084 | <i>RPS6KA2</i> | chr6:166825827-166826439 | N_Shore |
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| cg19752602 | chr5 | 153039227 | <i>GRIA1</i> | | OpenSea |
| cg18349306 | chr4 | 146267385 | | | OpenSea |
| cg05595469 | chr21 | 47845863 | <i>PCNT</i> | chr21:47845595-47845864 | Island |
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| cg02284273 | chr10 | 14051679 | <i>FRMD4A</i> | | OpenSea |
| cg10015572 | chr11 | 124071575 | | | OpenSea |
| cg18350391 | chr16 | 3115552 | <i>IL32</i> | | OpenSea |
| cg05437132 | chr21 | 10990903 | <i>TPTE</i> | chr21:10989913-10991413 | Island |
| cg26912105 | chr16 | 84553585 | | | OpenSea |
| cg12444081 | chr17 | 16521159 | | chr17:16520938-16521317 | Island |
| cg12047941 | chr11 | 315908 | | chr11:315739-316539 | Island |
| cg09163005 | chr12 | 14926986 | <i>H2AFJ</i> | chr12:14927291-14928023 | N_Shore |
| cg14690181 | chr5 | 115387984 | | | OpenSea |
| cg16239536 | chr19 | 1079617 | <i>HMHA1</i> | chr19:1079682-1081937 | N_Shore |
| cg08418872 | chr12 | 6442954 | <i>TNFRSF1A</i> | | OpenSea |
| cg24549912 | chr5 | 50692281 | | chr5:50694984-50695352 | N_Shelf |
| cg12077963 | chr17 | 4079306 | <i>ANKFY1</i> | | OpenSea |
| cg23026906 | chr1 | 207819196 | <i>CRIL</i> | chr1:207818389-207818952 | S_Shore |
| cg07499142 | chr1 | 9788715 | <i>PIK3CD</i> | chr1:9790292-9790704 | N_Shore |
| cg15997393 | chr7 | 1961869 | <i>MAD1L1</i> | | OpenSea |
| cg01123946 | chr16 | 89163343 | <i>ACSF3</i> | chr16:89167116-89167482 | N_Shelf |
| cg14378925 | chr11 | 64635728 | <i>EHD1</i> | | OpenSea |
| cg01945624 | chr4 | 8230847 | <i>SH3TC1</i> | | OpenSea |
| cg14085952 | chr9 | 139496844 | | | OpenSea |
| cg12413156 | chr20 | 62368256 | <i>LIME1</i> | chr20:62368955-62371962 | N_Shore |
| cg06329392 | chr13 | 40762435 | | | OpenSea |
| cg22022580 | chr19 | 37266605 | | chr19:37266594-37267027 | Island |
| cg18128536 | chr17 | 47092178 | <i>IGF2BP1</i> | chr17:47091973-47092211 | Island |
| cg25607383 | chr6 | 30853569 | <i>DDR1</i> | chr6:30852102-30852676 | S_Shore |
| cg11227278 | chr2 | 23749277 | <i>KLHL29</i> | chr2:23749086-23749291 | Island |
| cg04582263 | chr16 | 67973788 | <i>LCAT</i> | chr16:67969290-67970418 | S_Shelf |
| cg07970799 | chr6 | 6614719 | <i>LOC285780</i> | | OpenSea |
| cg20513976 | chr20 | 62367893 | <i>LIME1</i> | chr20:62368955-62371962 | N_Shore |
| cg13603599 | chr11 | 67251939 | <i>AIP</i> | chr11:67250344-67250864 | S_Shore |
| cg16787483 | chr13 | 88328251 | <i>SLITRK5</i> | chr13:88329394-88329885 | N_Shore |
| cg25225693 | chr7 | 99816988 | <i>GATS</i> | | OpenSea |
| cg25598685 | chr11 | 42617544 | | | OpenSea |
| cg07637658 | chr19 | 45887042 | <i>PPP1R13L</i> | chr19:45888768-45889465 | N_Shore |
| cg24741873 | chr10 | 82223998 | <i>TSPAN14</i> | | OpenSea |
| cg18030943 | chr3 | 182876556 | <i>LAMP3</i> | chr3:182880277-182880722 | N_Shelf |
| cg08006309 | chr16 | 1587810 | <i>IFT140</i> | chr16:1587683-1587899 | Island |
| cg01154505 | chr2 | 112940409 | <i>FBLN7</i> | chr2:112939287-112939563 | S_Shore |
| cg26472802 | chr21 | 45713719 | <i>AIRE</i> | chr21:45713509-45713813 | Island |
| cg18338046 | chr5 | 133452188 | <i>TCF7</i> | chr5:133449320-133451260 | S_Shore |
| cg13750061 | chr11 | 118214845 | <i>CD3G</i> | | OpenSea |
| cg14163311 | chr1 | 206729553 | <i>RASSF5</i> | chr1:206730397-206730908 | N_Shore |
| cg17709873 | chr6 | 31540456 | <i>LTA</i> | | OpenSea |

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| cg09985344 | chr16 | 84648441 | <i>COTL1</i> | chr16:84650960-84651565 | N_Shelf |
| cg09232358 | chr14 | 23015657 | | | OpenSea |
| cg13298528 | chr11 | 118763863 | <i>CXCR5</i> | | OpenSea |
| cg02119848 | chr3 | 125826288 | <i>ALDH1L1</i> | | OpenSea |
| cg26348243 | chr6 | 31540461 | <i>LTA</i> | | OpenSea |
| cg02324006 | chr19 | 1080034 | <i>HMHA1</i> | chr19:1079682-1081937 | Island |
| cg26752663 | chr2 | 25142016 | <i>ADCY3</i> | chr2:25142472-25143689 | N_Shore |
| cg20334591 | chr4 | 39775714 | <i>UBE2K</i> | chr4:39771679-39771944 | S_Shelf |
| cg12033075 | chr1 | 9788767 | <i>PIK3CD</i> | chr1:9790292-9790704 | N_Shore |
| cg21653586 | chr11 | 10530636 | | | OpenSea |
| cg24449463 | chr1 | 168025552 | <i>DCAF6</i> | chr1:168025508-168025722 | Island |
| cg18799102 | chr3 | 155760037 | | | OpenSea |
| cg22514722 | chr3 | 127473755 | <i>MGLL</i> | | OpenSea |
| cg06243989 | chr15 | 25425615 | <i>SNORD115-6</i> | | OpenSea |
| cg21482472 | chr13 | 81229358 | | chr13:81229047-81229445 | Island |
| cg09549073 | chr7 | 27183274 | <i>HOXA5</i> | chr7:27182613-27185562 | Island |
| cg14918744 | chr8 | 23018464 | <i>TNFRSF10D</i> | chr8:23021056-23021588 | N_Shelf |
| cg24973755 | chr4 | 1304972 | <i>MAEA</i> | chr4:1304768-1305114 | Island |
| cg02611934 | chr13 | 88329407 | <i>SLITRK5</i> | chr13:88329394-88329885 | Island |
| cg20805133 | chr2 | 242802192 | <i>PDCD1</i> | chr2:242805752-242806034 | N_Shelf |
| cg03363478 | chr6 | 170268808 | | | OpenSea |
| cg19529732 | chr12 | 122712101 | <i>DIABLO</i> | chr12:122710054-122711371 | S_Shore |
| cg21673175 | chr2 | 132202532 | <i>LOC401010</i> | chr2:132202265-132203257 | Island |
| cg23743554 | chr11 | 65321226 | <i>LTBP3</i> | chr11:65321225-65321823 | Island |
| cg25657218 | chr17 | 22017062 | | chr17:22016769-22017189 | Island |
| cg16385865 | chr12 | 132670412 | | chr12:132673993-132675241 | N_Shelf |
| cg18825594 | chr2 | 10184650 | <i>KLF11</i> | chr2:10182635-10184702 | Island |
| cg05163268 | chr5 | 180116385 | | | OpenSea |
| cg04520704 | chr22 | 18325160 | <i>MICAL3</i> | chr22:18324563-18324788 | S_Shore |
| cg24449629 | chr19 | 52646265 | | chr19:52642613-52642841 | S_Shelf |
| cg12827637 | chr14 | 69256791 | <i>ZFP36L1</i> | chr14:69256676-69257036 | Island |
| cg06357748 | chr12 | 1025529 | <i>RAD52</i> | | OpenSea |
| cg04006327 | chr11 | 72533487 | <i>ATG16L2</i> | chr11:72532612-72533774 | Island |
| cg09757087 | chr16 | 1585644 | <i>IFT140</i> | chr16:1583809-1584641 | S_Shore |
| cg24616382 | chr7 | 99767035 | <i>GAL3ST4</i> | chr7:99768884-99769559 | N_Shore |
| cg14356919 | chr21 | 46890997 | <i>COL18A1</i> | chr21:46890848-46891115 | Island |
| cg16093065 | chr22 | 40720633 | <i>TNRC6B</i> | | OpenSea |
| cg24331317 | chr3 | 19017607 | | | OpenSea |
| cg20793665 | chr2 | 232549224 | | chr2:232545347-232546143 | S_Shelf |
| cg24723883 | chr19 | 2608495 | <i>GNG7</i> | chr19:2607725-2607967 | S_Shore |
| cg10325497 | chr1 | 32739049 | <i>LCK</i> | chr1:32740710-32741544 | N_Shore |
| cg02963266 | chr14 | 99681710 | <i>BCL11B</i> | | OpenSea |
| cg14957089 | chr11 | 331092 | | chr11:330785-331110 | Island |
| cg25569480 | chr2 | 48844892 | <i>GTF2A1L</i> | chr2:48844751-48844985 | Island |
| cg19484299 | chr2 | 234775274 | <i>MSL3L2</i> | chr2:234776882-234777098 | N_Shore |
| cg08329113 | chr16 | 70771142 | <i>VAC14</i> | | OpenSea |
| cg08288818 | chr15 | 55920079 | <i>PRTG</i> | | OpenSea |
| cg11430096 | chr6 | 110968061 | <i>CDK19</i> | chr6:110967011-110967823 | S_Shore |
| cg17187762 | chr22 | 28070120 | | chr22:28073920-28074244 | N_Shelf |
| cg15739904 | chr8 | 125313885 | | chr8:125313572-125314097 | Island |
| cg08466385 | chr6 | 18368294 | | | OpenSea |
| cg01791634 | chr17 | 76130139 | <i>TMCS8</i> | chr17:76127521-76128406 | S_Shore |
| cg23939642 | chr17 | 79225757 | <i>SLC38A10</i> | | OpenSea |
| cg11015251 | chr7 | 27170554 | <i>HOXA4</i> | chr7:27169572-27170638 | Island |
| cg07114422 | chr1 | 2183438 | <i>SKI</i> | | OpenSea |
| cg27583010 | chr16 | 30198505 | <i>CORO1A</i> | chr16:30194747-30195357 | S_Shelf |
| cg26821758 | chr2 | 55515029 | <i>CCDC88A</i> | | OpenSea |
| cg19905757 | chr15 | 68924127 | <i>CORO2B</i> | | OpenSea |
| cg14457074 | chr5 | 180408785 | | | OpenSea |

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|------------|-------|-----------|---------------------|---------------------------|---------|
| cg09390241 | chr4 | 8174148 | | | OpenSea |
| cg16272981 | chr5 | 1489889 | <i>LPCAT1</i> | chr5:1489799-1490071 | Island |
| cg22726349 | chr1 | 2990678 | <i>PRDM16</i> | chr1:2990030-2990718 | Island |
| cg14977069 | chr20 | 62367698 | <i>LIME1</i> | chr20:62368955-62371962 | N_Shore |
| cg25417842 | chr7 | 150822987 | <i>AGAP3</i> | chr7:150822654-150823387 | Island |
| cg19933320 | chr7 | 64125401 | <i>ZNF107</i> | chr7:64126715-64126994 | N_Shore |
| cg08121102 | chr1 | 179805298 | | | OpenSea |
| cg15656347 | chr5 | 7289734 | | chr5:7289733-7290153 | Island |
| cg17508302 | chr1 | 161575716 | <i>HSPA7</i> | chr1:161575534-161576908 | Island |
| cg24704510 | chr17 | 38182512 | <i>MED24</i> | | OpenSea |
| cg22120095 | chr3 | 50488020 | <i>CACNA2D2</i> | | OpenSea |
| cg23768702 | chr18 | 44557673 | <i>TCEB3CL</i> | chr18:44554879-44556671 | S_Shore |
| cg23570810 | chr11 | 315102 | <i>IFITM1</i> | chr11:315739-316539 | N_Shore |
| cg20558320 | chr2 | 235210313 | | | OpenSea |
| cg10302285 | chr4 | 113063260 | | chr4:113066470-113067379 | N_Shelf |
| cg20368377 | chr13 | 23499360 | | chr13:23500589-23501398 | N_Shore |
| cg23463608 | chr19 | 2607757 | <i>GNG7</i> | chr19:2607725-2607967 | Island |
| cg07218880 | chr13 | 115046279 | <i>UPF3A</i> | chr13:115046754-115048034 | N_Shore |
| cg27276613 | chr11 | 72750477 | <i>FCHSD2</i> | | OpenSea |
| cg00810292 | chr13 | 75900518 | <i>TBC1D4</i> | | OpenSea |
| cg19798735 | chr7 | 110730805 | <i>IMMP2L</i> | | OpenSea |
| cg06257110 | chr16 | 21658497 | <i>METTL9</i> | | OpenSea |
| cg11839415 | chr1 | 43814764 | <i>MPL</i> | chr1:43814305-43815277 | Island |
| cg19627093 | chr8 | 1900892 | <i>ARHGEF10</i> | | OpenSea |
| cg22981104 | chr8 | 144255663 | | | OpenSea |
| cg02256315 | chr11 | 18500649 | <i>LDHAL6A</i> | | OpenSea |
| cg26234900 | chr6 | 32820214 | <i>TAPI</i> | chr6:32820849-32822370 | N_Shore |
| cg25211348 | chr1 | 111769665 | <i>CHI3L2</i> | | OpenSea |
| cg01367992 | chr1 | 160766535 | <i>LY9</i> | | OpenSea |
| cg11347531 | chr1 | 59090352 | | | OpenSea |
| cg17093855 | chr17 | 72834959 | <i>TMEM104</i> | chr17:72838812-72839751 | N_Shelf |
| cg04340595 | chr1 | 9789174 | <i>CLSTN1</i> | chr1:9790292-9790704 | N_Shore |
| cg09026253 | chr11 | 313267 | <i>IFITM1</i> | chr11:310728-311419 | S_Shore |
| cg06936108 | chr17 | 7894917 | | chr17:7893330-7893702 | S_Shore |
| cg03203197 | chr16 | 34587120 | | chr16:34586717-34587124 | Island |
| cg12754571 | chr1 | 247694271 | <i>LOC148824</i> | chr1:247694035-247694501 | Island |
| cg01083549 | chr16 | 89168371 | <i>ACSF3</i> | chr16:89167116-89167482 | S_Shore |
| cg01132696 | chr6 | 33048558 | <i>HLA-DPB1</i> | chr6:33048416-33048814 | Island |
| cg13440692 | chr1 | 1186357 | | chr1:1189396-1190245 | N_Shelf |
| cg25170017 | chr11 | 64644487 | <i>EHD1</i> | chr11:64645429-64646566 | N_Shore |
| cg10859442 | chr11 | 73716367 | <i>UCP3</i> | | OpenSea |
| cg11688093 | chr13 | 111178359 | <i>RAB20</i> | | OpenSea |
| cg02805052 | chr2 | 104973361 | | | OpenSea |
| cg08597025 | chr21 | 15077096 | | chr21:15077051-15077824 | Island |
| cg27280688 | chr21 | 43823809 | <i>UBASH3A</i> | | OpenSea |
| cg20055861 | chr15 | 68055293 | <i>MAP2K5</i> | | OpenSea |
| cg07212384 | chr7 | 99761053 | <i>GAL3ST4</i> | | OpenSea |
| cg18608055 | chr19 | 1130866 | <i>SBNO2</i> | | OpenSea |
| cg11674355 | chr2 | 65610261 | <i>SPRED2</i> | | OpenSea |
| cg17712928 | chr7 | 2124974 | <i>MAD1L1</i> | | OpenSea |
| cg17394978 | chr5 | 131824502 | <i>IRF1</i> | chr5:131825842-131826935 | N_Shore |
| cg05201185 | chr6 | 30459139 | <i>HLA-E</i> | chr6:30457369-30458175 | S_Shore |
| cg17001566 | chr1 | 2990490 | <i>PRDM16</i> | chr1:2990030-2990718 | Island |
| cg09847153 | chr1 | 38461540 | | chr1:38461584-38461988 | N_Shore |
| cg17461271 | chr1 | 172717683 | | | OpenSea |
| cg03639671 | chr4 | 145430689 | | | OpenSea |
| cg03982998 | chr1 | 238024671 | <i>LOC100130331</i> | | OpenSea |
| cg16351957 | chr6 | 71874784 | | | OpenSea |
| cg15787636 | chr17 | 80866113 | <i>TBCD</i> | chr17:80863327-80863743 | S_Shelf |

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|------------|-------|-----------|------------------|---------------------------|---------|
| cg05830220 | chr16 | 87757033 | <i>KLHDC4</i> | chr16:87754008-87754285 | S_Shelf |
| cg14113203 | chr9 | 97346942 | <i>FBP2</i> | | OpenSea |
| cg04333867 | chr14 | 24567446 | <i>PCK2</i> | chr14:24563256-24563886 | S_Shelf |
| cg08714433 | chr4 | 132896736 | | chr4:132896360-132896778 | Island |
| cg03448915 | chr16 | 66583078 | <i>TK2</i> | chr16:66583236-66584135 | N_Shore |
| cg05347965 | chr17 | 55663256 | <i>MSI2</i> | | OpenSea |
| cg08450017 | chr3 | 45984838 | <i>CXCR6</i> | | OpenSea |
| cg12355172 | chr11 | 67418315 | <i>ACY3</i> | | OpenSea |
| cg24445388 | chr1 | 2084391 | <i>PRKCZ</i> | chr1:2082314-2082529 | S_Shore |
| cg06208288 | chr1 | 58858074 | | | OpenSea |
| cg25637655 | chr6 | 29911542 | <i>HLA-A</i> | chr6:29910202-29911367 | S_Shore |
| cg02891314 | chr5 | 179741120 | <i>GFPT2</i> | chr5:179740710-179741121 | Island |
| cg12048225 | chr6 | 32808669 | <i>PSMB8</i> | chr6:32811494-32811839 | N_Shelf |
| cg05799811 | chr1 | 167487396 | <i>CD247</i> | | OpenSea |
| cg21916358 | chr21 | 15077562 | | chr21:15077051-15077824 | Island |
| cg07318204 | chr4 | 145566441 | <i>HHIP</i> | chr4:145566242-145567413 | Island |
| cg16727006 | chr16 | 87470545 | <i>ZCCHC14</i> | | OpenSea |
| cg26768584 | chr3 | 18480242 | <i>SATB1</i> | | OpenSea |
| cg13862711 | chr9 | 124989915 | <i>LHX6</i> | chr9:124987743-124991086 | Island |
| cg26313511 | chr3 | 125053815 | <i>ZNF148</i> | | OpenSea |
| cg09362796 | chr4 | 3204792 | <i>HTT</i> | | OpenSea |
| cg01312482 | chr5 | 178451176 | <i>ZNF879</i> | chr5:178450630-178451216 | Island |
| cg02932314 | chr17 | 42733698 | <i>C17orf104</i> | chr17:42733486-42734626 | Island |
| cg03890037 | chr5 | 115297989 | <i>LVRN</i> | chr5:115297607-115298093 | Island |
| cg04293259 | chr6 | 30434208 | | chr6:30434029-30434422 | Island |
| cg09257796 | chr15 | 27215971 | <i>GABRG3</i> | chr15:27215951-27216856 | Island |
| cg21429394 | chr12 | 100750899 | <i>SLC17A8</i> | | OpenSea |
| cg08513253 | chr6 | 107955362 | <i>SOBP</i> | chr6:107955163-107956693 | Island |
| cg12277666 | chr1 | 179560870 | <i>TDRD5</i> | chr1:179560751-179561596 | Island |
| cg12076931 | chr9 | 139427171 | <i>NOTCH1</i> | chr9:139428318-139428527 | N_Shore |
| cg01289544 | chr2 | 27887409 | <i>SUPT7L</i> | chr2:27886259-27887410 | Island |
| cg03896611 | chr8 | 99986344 | | chr8:99985733-99986983 | Island |
| cg16621833 | chr6 | 117587588 | <i>VGLL2</i> | chr6:117586482-117587156 | S_Shore |
| cg20185461 | chr19 | 18899082 | <i>COMP</i> | chr19:18899037-18902284 | Island |
| cg20692569 | chr7 | 72848481 | <i>FZD9</i> | chr7:72847933-72850032 | Island |
| cg04626491 | chr6 | 28584053 | | chr6:28583934-28584289 | Island |
| cg23193759 | chr10 | 71389896 | <i>C10orf35</i> | chr10:71389862-71390355 | Island |
| cg11807105 | chr6 | 28784852 | | chr6:28781857-28782302 | S_Shelf |
| cg01889893 | chr1 | 8085193 | <i>ERRF11</i> | chr1:8085554-8086854 | N_Shore |
| cg07906855 | chr3 | 9642468 | | chr3:9642387-9642695 | Island |
| cg03308652 | chr3 | 62354991 | | chr3:62354291-62355012 | Island |
| cg07465864 | chr5 | 112849162 | <i>YTHDC2</i> | chr5:112849265-112849982 | N_Shore |
| cg18457731 | chr8 | 139734484 | <i>COL22A1</i> | | OpenSea |
| cg23630442 | chr8 | 18245225 | | chr8:18244455-18245226 | Island |
| cg00986580 | chr14 | 22951241 | | | OpenSea |
| cg12190994 | chr7 | 4305061 | <i>SDK1</i> | chr7:4303079-4305062 | Island |
| cg09862733 | chr19 | 49631106 | <i>PPFIA3</i> | chr19:49631105-49631494 | Island |
| cg13932794 | chr14 | 100126196 | <i>HHIPL1</i> | chr14:100125671-100126694 | Island |
| cg16178091 | chr5 | 37844401 | | chr5:37836747-37840726 | S_Shelf |
| cg13718539 | chr5 | 140801354 | <i>PCDHGA4</i> | chr5:140802399-140802832 | N_Shore |
| cg07025583 | chr5 | 157078881 | <i>SOX30</i> | chr5:157078327-157079564 | Island |
| cg24411302 | chr14 | 74893183 | <i>TMEM90A</i> | chr14:74892466-74893184 | Island |
| cg08602008 | chr19 | 48076841 | | chr19:48076461-48076877 | Island |
| cg14064148 | chr19 | 10527576 | | chr19:10526982-10527755 | Island |
| cg21177456 | chr19 | 519611 | <i>C19orf20</i> | chr19:518847-519905 | Island |
| cg07852825 | chr3 | 172166182 | <i>GHSR</i> | chr3:172165372-172166738 | Island |
| cg15962375 | chr1 | 213563639 | | chr1:213562739-213562958 | S_Shore |
| cg20810675 | chr4 | 171604188 | | | OpenSea |
| cg06358300 | chr9 | 84302344 | <i>TLE1</i> | chr9:84302139-84305001 | Island |

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|------------|-------|-----------|-----------------|---------------------------|---------|
| cg24085707 | chr17 | 79615652 | <i>TSPAN10</i> | chr17:79614850-79615559 | S_Shore |
| cg19137818 | chr3 | 45837556 | <i>SLC6A20</i> | chr3:45837480-45838256 | Island |
| cg10304824 | chr2 | 177028804 | <i>HOXD3</i> | chr2:177029413-177029941 | N_Shore |
| cg12050497 | chr2 | 14773274 | <i>FAM84A</i> | chr2:14772377-14775809 | Island |
| cg08623383 | chr1 | 28205926 | <i>C1orf38</i> | | OpenSea |
| cg15009294 | chr1 | 214813712 | <i>CENPF</i> | | OpenSea |
| cg04096767 | chr11 | 32449450 | <i>WT1</i> | chr11:32448261-32449744 | Island |
| cg04290586 | chr12 | 108168987 | <i>ASCL4</i> | chr12:108168986-108169570 | Island |
| cg25782229 | chr11 | 32450692 | <i>WT1</i> | chr11:32452144-32452708 | N_Shore |
| cg23553442 | chr9 | 74062096 | | chr9:74061513-74062097 | Island |
| cg19027255 | chr10 | 78943401 | <i>KCNMA1</i> | | OpenSea |
| cg15726426 | chr1 | 111216839 | <i>KCNA3</i> | chr1:111216244-111217937 | Island |
| cg10640072 | chr8 | 99985888 | | chr8:99985733-99986983 | Island |
| cg19374779 | chr3 | 138341122 | <i>FAIM</i> | | OpenSea |
| cg15704225 | chr2 | 81427138 | | | OpenSea |
| cg22835435 | chr19 | 51111185 | | chr19:51111184-51111519 | Island |
| cg23713520 | chr16 | 57318087 | <i>PLLP</i> | chr16:57317967-57318964 | Island |
| cg05251389 | chr22 | 43525330 | <i>BIK</i> | | OpenSea |
| cg12289045 | chr19 | 51141361 | <i>SYT3</i> | chr19:51142284-51142986 | N_Shore |
| cg07472704 | chr13 | 113763758 | <i>F7</i> | chr13:113761566-113765534 | Island |
| cg20992319 | chr2 | 225813194 | <i>DOCK10</i> | | OpenSea |
| cg14829814 | chr12 | 108294894 | | chr12:108297426-108297743 | N_Shelf |
| cg18105725 | chr6 | 160554003 | <i>SLC22A1</i> | chr6:160554661-160555504 | N_Shore |
| cg07508429 | chr7 | 44448689 | <i>NUDCD3</i> | | OpenSea |
| cg10424892 | chr12 | 9602245 | <i>DDX12</i> | chr12:9600415-9601259 | S_Shore |
| cg01353448 | chr7 | 31726912 | <i>C7orf16</i> | | OpenSea |
| cg14905403 | chr17 | 39317349 | <i>KRTAP4-4</i> | | OpenSea |
| cg16119505 | chr1 | 97186464 | <i>PTBP2</i> | chr1:97187102-97187606 | N_Shore |
| cg14299369 | chr15 | 43560165 | <i>TGM5</i> | | OpenSea |
| cg16006141 | chr1 | 25167475 | <i>CLIC4</i> | | OpenSea |
| cg10221391 | chr6 | 29945726 | <i>HCG9</i> | chr6:29944402-29945169 | S_Shore |
| cg15115365 | chr5 | 88384656 | | | OpenSea |
| cg10207609 | chr7 | 80267619 | <i>CD36</i> | | OpenSea |
| cg22288927 | chr4 | 144482688 | | chr4:144480541-144480947 | S_Shore |
| cg27391117 | chr11 | 89442829 | <i>TRIM77</i> | | OpenSea |
| cg26825569 | chr6 | 46704077 | <i>PLA2G7</i> | chr6:46702736-46703316 | S_Shore |
| cg21424209 | chr6 | 148792600 | <i>SASH1</i> | | OpenSea |
| cg05753589 | chr1 | 2064765 | <i>PRKCZ</i> | chr1:2064628-2064855 | Island |
| cg15136953 | chr3 | 110793466 | <i>PVRL3</i> | chr3:110790149-110791401 | S_Shelf |
| cg18222192 | chr11 | 79104769 | <i>ODZ4</i> | | OpenSea |
| cg00919055 | chr5 | 149546946 | <i>CDX1</i> | chr5:149546027-149546988 | Island |
| cg14625770 | chr9 | 104295276 | <i>RNF20</i> | chr9:104295917-104296232 | N_Shore |
| cg22109694 | chr15 | 26360852 | | | OpenSea |
| cg13629358 | chr5 | 160112456 | <i>ATP10B</i> | | OpenSea |
| cg10992558 | chr1 | 95369272 | <i>CNN3</i> | | OpenSea |
| cg14081737 | chr9 | 116111377 | <i>BSPRY</i> | chr9:116111663-116112189 | N_Shore |

Table S6- Prediction scores generated for methylation data from 60 samples with different blood cell types

| Blood cell | Kabuki | ATRX | Sotos | CHARGE | Floating Harbor | ADCA-DN | Claes-Jensen | Non 7-disorder |
|------------|--------|-------|-------|--------|-----------------|---------|--------------|----------------|
| WB_1 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.001 | 0.002 | 0.987 |
| WB_2 | 0.002 | 0.003 | 0.002 | 0.006 | 0.002 | 0.001 | 0.003 | 0.980 |
| WB_3 | 0.003 | 0.004 | 0.002 | 0.002 | 0.002 | 0.001 | 0.003 | 0.983 |
| WB_4 | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.001 | 0.002 | 0.990 |
| WB_5 | 0.002 | 0.002 | 0.002 | 0.005 | 0.003 | 0.001 | 0.004 | 0.982 |
| WB_6 | 0.003 | 0.003 | 0.003 | 0.019 | 0.002 | 0.001 | 0.003 | 0.967 |
| PBMC_1 | 0.002 | 0.002 | 0.001 | 0.002 | 0.004 | 0.001 | 0.002 | 0.987 |
| PBMC_2 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 | 0.003 | 0.987 |
| PBMC_3 | 0.002 | 0.001 | 0.001 | 0.001 | 0.002 | 0.000 | 0.001 | 0.991 |
| PBMC_4 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.991 |
| PBMC_5 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.001 | 0.002 | 0.990 |
| PBMC_6 | 0.002 | 0.001 | 0.001 | 0.005 | 0.002 | 0.001 | 0.001 | 0.986 |
| Gran_1 | 0.001 | 0.003 | 0.003 | 0.005 | 0.001 | 0.001 | 0.003 | 0.983 |
| Gran_2 | 0.003 | 0.003 | 0.004 | 0.030 | 0.003 | 0.001 | 0.007 | 0.950 |
| Gran_3 | 0.003 | 0.004 | 0.003 | 0.007 | 0.002 | 0.001 | 0.006 | 0.974 |
| Gran_4 | 0.002 | 0.003 | 0.003 | 0.002 | 0.002 | 0.001 | 0.004 | 0.982 |
| Gran_5 | 0.002 | 0.002 | 0.002 | 0.017 | 0.002 | 0.001 | 0.005 | 0.968 |
| Gran_6 | 0.006 | 0.006 | 0.004 | 0.078 | 0.003 | 0.002 | 0.006 | 0.895 |
| CD4+_1 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.992 |
| CD4+_2 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.000 | 0.001 | 0.994 |
| CD4+_3 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.000 | 0.001 | 0.995 |
| CD4+_4 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.000 | 0.001 | 0.994 |
| CD4+_5 | 0.001 | 0.001 | 0.000 | 0.001 | 0.003 | 0.001 | 0.001 | 0.993 |
| CD4+_6 | 0.002 | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.001 | 0.992 |
| CD8+_1 | 0.010 | 0.002 | 0.001 | 0.003 | 0.018 | 0.002 | 0.002 | 0.962 |
| CD8+_2 | 0.003 | 0.001 | 0.001 | 0.001 | 0.005 | 0.001 | 0.001 | 0.988 |
| CD8+_3 | 0.003 | 0.001 | 0.001 | 0.001 | 0.004 | 0.001 | 0.001 | 0.988 |
| CD8+_4 | 0.002 | 0.001 | 0.001 | 0.001 | 0.004 | 0.001 | 0.001 | 0.990 |
| CD8+_5 | 0.003 | 0.001 | 0.000 | 0.001 | 0.005 | 0.001 | 0.001 | 0.989 |
| CD8+_6 | 0.006 | 0.001 | 0.001 | 0.002 | 0.004 | 0.001 | 0.001 | 0.984 |
| CD14+_1 | 0.001 | 0.004 | 0.003 | 0.007 | 0.002 | 0.001 | 0.003 | 0.979 |
| CD14+_2 | 0.003 | 0.005 | 0.006 | 0.053 | 0.003 | 0.001 | 0.008 | 0.921 |
| CD14+_3 | 0.002 | 0.004 | 0.003 | 0.008 | 0.002 | 0.001 | 0.004 | 0.976 |
| CD14+_4 | 0.002 | 0.002 | 0.003 | 0.002 | 0.001 | 0.001 | 0.003 | 0.987 |
| CD14+_5 | 0.002 | 0.002 | 0.002 | 0.015 | 0.002 | 0.001 | 0.005 | 0.971 |
| CD14+_6 | 0.005 | 0.007 | 0.006 | 0.116 | 0.003 | 0.002 | 0.007 | 0.855 |
| CD19+_1 | 0.006 | 0.008 | 0.006 | 0.012 | 0.010 | 0.002 | 0.004 | 0.951 |
| CD19+_2 | 0.004 | 0.006 | 0.008 | 0.025 | 0.006 | 0.001 | 0.004 | 0.944 |
| CD19+_3 | 0.027 | 0.009 | 0.009 | 0.015 | 0.016 | 0.002 | 0.007 | 0.916 |

| | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| CD19+_4 | 0.002 | 0.004 | 0.004 | 0.004 | 0.003 | 0.001 | 0.001 | 0.980 |
| CD19+_5 | 0.005 | 0.004 | 0.005 | 0.026 | 0.009 | 0.001 | 0.003 | 0.947 |
| CD19+_6 | 0.013 | 0.013 | 0.016 | 0.251 | 0.009 | 0.003 | 0.006 | 0.688 |
| CD56+_1 | 0.004 | 0.002 | 0.002 | 0.002 | 0.010 | 0.001 | 0.002 | 0.978 |
| CD56+_2 | 0.003 | 0.001 | 0.001 | 0.002 | 0.005 | 0.001 | 0.003 | 0.984 |
| CD56+_3 | 0.004 | 0.001 | 0.001 | 0.002 | 0.006 | 0.001 | 0.002 | 0.983 |
| CD56+_4 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.001 | 0.001 | 0.992 |
| CD56+_5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.003 | 0.001 | 0.001 | 0.992 |
| CD56+_6 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.000 | 0.001 | 0.993 |
| Neu_1 | 0.002 | 0.004 | 0.003 | 0.006 | 0.003 | 0.001 | 0.005 | 0.977 |
| Neu_2 | 0.002 | 0.003 | 0.003 | 0.007 | 0.002 | 0.001 | 0.006 | 0.976 |
| Neu_3 | 0.003 | 0.004 | 0.003 | 0.005 | 0.002 | 0.001 | 0.007 | 0.976 |
| Neu_4 | 0.002 | 0.003 | 0.002 | 0.004 | 0.001 | 0.001 | 0.005 | 0.981 |
| Neu_5 | 0.002 | 0.002 | 0.002 | 0.008 | 0.002 | 0.001 | 0.004 | 0.981 |
| Neu_6 | 0.004 | 0.003 | 0.003 | 0.024 | 0.002 | 0.001 | 0.004 | 0.959 |
| Eos_1 | 0.001 | 0.004 | 0.003 | 0.004 | 0.002 | 0.001 | 0.004 | 0.981 |
| Eos_2 | 0.003 | 0.004 | 0.005 | 0.023 | 0.003 | 0.001 | 0.010 | 0.951 |
| Eos_3 | 0.002 | 0.004 | 0.004 | 0.006 | 0.002 | 0.001 | 0.008 | 0.974 |
| Eos_4 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | 0.001 | 0.005 | 0.984 |
| Eos_5 | 0.002 | 0.002 | 0.002 | 0.007 | 0.002 | 0.001 | 0.006 | 0.978 |
| Eos_6 | 0.004 | 0.005 | 0.005 | 0.058 | 0.003 | 0.001 | 0.008 | 0.917 |

WB: Whole blood, PBMC: Peripheral blood mononuclear cells, Gran: Granulocytes, Neu: Neutrophil, Eos: Eosinophil

Table S7 - Probability scores and final predictions for undiagnosed cases and VUS variants

| Id | sex | age | Suspected phenotype | Screened Gene | Mutation | ACMG Variant classification | DNA methylation prediction | Kabuki | ATRX | Sotos | CHARGE | Floating Harbor | ADCA-DN | Claes-Jensen | Non 7-disorder |
|-----------|------------|------------|----------------------------|----------------------|--|------------------------------------|-----------------------------------|---------------|-------------|--------------|---------------|------------------------|----------------|---------------------|-----------------------|
| MS1050 | m | 4.3 | ATRX | ATRX | c.2254A>G; p.T752A | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0567 | m | 11.5 | ATRX | ATRX | c.5579A>G; p.N1860S | Benign | | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.97 |
| MS1020 | f | 2.5 | CHARGE | CHD7 | c.5041+5G>A | VUS | CHARGE | 0.03 | 0.01 | 0.01 | 0.82 | 0.02 | 0.01 | 0.01 | 0.1 |
| MS0978 | f | 0.8 | CHARGE | CHD7 | c.2788G>A, p.E930K | VUS | | 0 | 0 | 0 | 0 | 0.01 | 0 | 0 | 0.98 |
| MS0980 | m | 16 | CHARGE | CHD7 | c.6775+1G>A | VUS | CHARGE | 0.01 | 0.01 | 0.01 | 0.94 | 0.01 | 0.01 | 0.01 | 0 |
| MS0981 | m | 3.5 | CHARGE | CHD7 | c.2058insGCAAAA | VUS | | 0.02 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.97 |
| MS1028 | m | 4.3 | CHARGE | CHD7 | c.2185A>G, p.K729E | VUS | Kabuki | 0.92 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 |
| MS1031 | f | 7.5 | CHARGE | CHD7 | c.5405-17G>A (de novo) | Pathogenic | CHARGE | 0.04 | 0.02 | 0.01 | 0.65 | 0.01 | 0.01 | 0.01 | 0.25 |
| MS1034 | m | 0.01 | CHARGE | CHD7 | c.5405-17G>A | Pathogenic | CHARGE | 0.02 | 0.02 | 0.01 | 0.89 | 0.01 | 0.01 | 0.01 | 0.02 |
| MS0986 | m | 0.01 | CHARGE | CHD7 | c.5405-17G>A | VUS | | 0.02 | 0.04 | 0.01 | 0.2 | 0.01 | 0.01 | 0 | 0.71 |
| MS0988 | f | 2.5 | CHARGE | CHD7 | c.3990-58insA, c.5210+58insA, c.5535-68T>C | VUS | | 0.01 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0.91 |
| MS0990 | m | 10.1 | CHARGE | CHD7 | c.6104-22_6104-4del19 | VUS | CHARGE | 0.03 | 0.03 | 0.02 | 0.82 | 0.03 | 0.01 | 0.03 | 0.03 |
| MS0993 | f | 1.5 | CHARGE | CHD7 | c.2957+5delG | VUS | | 0.02 | 0.01 | 0 | 0.17 | 0.01 | 0.01 | 0 | 0.79 |
| MS1042 | f | 0.9 | CHARGE | CHD7 | c.2124T>C, p.S708S | VUS | | 0.01 | 0.01 | 0 | 0.15 | 0.01 | 0 | 0 | 0.81 |
| MS1043 | m | 0.2 | CHARGE | CHD7 | c.1565G>T, p.G522V | VUS | | 0 | 0 | 0 | 0.07 | 0 | 0 | 0 | 0.92 |
| MS1047 | m | 3 | CHARGE | CHD7 | No mutation was found in CHD7 | N/A | CHARGE | 0.02 | 0.01 | 0.01 | 0.91 | 0.02 | 0.01 | 0.01 | 0.02 |
| MS0994 | f | 13.1 | CHARGE | CHD7 | c.712G>A, p.V238M | VUS | | 0.04 | 0.02 | 0 | 0.01 | 0.01 | 0.01 | 0 | 0.91 |
| MS0997 | f | 0.4 | CHARGE | CHD7 | c.5534+16T>C | VUS | | 0 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0.97 |
| MS0998 | f | 4.4 | CHARGE | CHD7 | c.2915A>G, Q972R | VUS | CHARGE | 0.04 | 0.02 | 0.01 | 0.82 | 0.03 | 0.01 | 0.02 | 0.05 |
| MS0999 | f | 0.3 | CHARGE | CHD7 | c.2053_2058dup6, c.5517dupT | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.92 | 0.01 | 0.01 | 0.02 | 0.01 |
| MS1000 | f | 0.01 | CHARGE | CHD7 | c.2490C>A | VUS | CHARGE | 0.02 | 0.02 | 0.01 | 0.92 | 0.01 | 0.01 | 0.01 | 0.01 |
| MS1001 | m | 0.2 | CHARGE | CHD7 | c.4533+1G>A | Pathogenic | CHARGE | 0.03 | 0.02 | 0.01 | 0.8 | 0.01 | 0.01 | 0.03 | 0.09 |
| MS1006 | m | 0.001 | CHARGE | CHD7 | c.6321C>T, p.H2107H | VUS | | 0.01 | 0.01 | 0.01 | 0.18 | 0.01 | 0.01 | 0 | 0.78 |
| MS1008 | f | 0.9 | CHARGE | CHD7 | c.6937-1G>A | Pathogenic | CHARGE | 0.04 | 0.04 | 0.03 | 0.82 | 0.02 | 0.02 | 0.02 | 0.02 |
| CHD7-20 | f | 5 | CHARGE | CHD7 | c.6322G>T (p.Gly2108Trp) | VUS | | 0.02 | 0.01 | 0 | 0.15 | 0.01 | 0 | 0 | 0.75 |

| | | | | | | | | | | | | | | | |
|---------|---|------|--------|------|--|-----|--------|------|------|------|------|------|------|------|------|
| CHD7-21 | f | 3 | CHARGE | CHD7 | c.3746G>A (p.Arg1249Gln) | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.73 | 0.02 | 0 | 0.01 | 0.2 |
| CHD7-22 | f | 0.01 | CHARGE | CHD7 | c2751G>A (p.Thr917Thr) | VUS | | 0 | 0 | 0 | 0.08 | 0 | 0 | 0 | 0.9 |
| CHD7-23 | m | 0.5 | CHARGE | CHD7 | c.-15G>A | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.69 | 0.01 | 0.01 | 0.01 | 0.25 |
| CHD7-24 | m | 2 | CHARGE | CHD7 | c.4225G>A (p.Val1409Met) | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.74 | 0.01 | 0 | 0.01 | 0.2 |
| CHD7-25 | m | 13 | CHARGE | CHD7 | c.5436C>G (p.Asp1812Glu) | VUS | CHARGE | 0.02 | 0.02 | 0.02 | 0.83 | 0.01 | 0.01 | 0.02 | 0.07 |
| CHD7-26 | m | 4 | CHARGE | CHD7 | c.5633A>G (p.Asp1878Gly) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| CHD7-27 | m | 4 | CHARGE | CHD7 | c.5848G>A (p.Ala1950Thr) | VUS | | 0.01 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.97 |
| CHD7-28 | m | 13 | CHARGE | CHD7 | c.6304G>T (p.Val2102Phe) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.99 |
| CHD7-29 | m | 6 | CHARGE | CHD7 | c.3566G>A (p.Arg1189His) | VUS | | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0.95 |
| CHD7-30 | m | 0.08 | CHARGE | CHD7 | intron4:c2238+1del | VUS | CHARGE | 0.01 | 0.01 | 0.01 | 0.95 | 0 | 0 | 0.01 | 0 |
| CHD7-31 | m | 5 | CHARGE | CHD7 | c.2049_2050insAAAGCA (p.Ala685_Lys686dup) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| CHD7-32 | m | 9 | CHARGE | CHD7 | c.6377A>T (p.Asp2126Val) | VUS | | 0 | 0 | 0 | 0.04 | 0 | 0 | 0 | 0.95 |
| CHD7-33 | m | | CHARGE | CHD7 | c.4851T>G (p.=(p.Gly1617Gly)) | VUS | | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.97 |
| CHD7-35 | f | | CHARGE | CHD7 | c.8791 G>A (p.Val2931Met) | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.86 | 0.01 | 0 | 0 | 0.09 |
| CHD7-37 | m | | CHARGE | CHD7 | c.8802C>G (p.Ser2934Arg) | VUS | | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.98 |
| CHD7-38 | m | | CHARGE | CHD7 | c.2516_2518delAGT (p.Gln839_Trp840delinsArg) | VUS | CHARGE | 0.03 | 0.02 | 0.01 | 0.77 | 0.02 | 0.01 | 0.01 | 0.13 |
| CHD7-39 | f | | CHARGE | CHD7 | c.8759G>C (p.Gly2920Ala) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| CHD7-42 | f | | CHARGE | CHD7 | c.127A>G (p.Ile43Val) | VUS | CHARGE | 0.01 | 0.01 | 0 | 0.96 | 0.01 | 0 | 0 | 0 |
| CHD7-43 | m | | CHARGE | CHD7 | c.1405A>G (p.Arg469Gly) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| CHD7-44 | f | | CHARGE | CHD7 | c.7763A>G (p.Asn2588Ser) | VUS | CHARGE | 0.01 | 0.01 | 0 | 0.97 | 0 | 0 | 0.01 | 0 |
| CHD7-45 | m | | CHARGE | CHD7 | c.3871A>C (p.Lys1291Gln) | VUS | CHARGE | 0.01 | 0.01 | 0.01 | 0.95 | 0.01 | 0 | 0.01 | 0 |
| CHD7-48 | m | | CHARGE | CHD7 | c.6193C>T (p.Arg2065Cys) | VUS | CHARGE | 0.02 | 0.02 | 0.01 | 0.89 | 0.01 | 0.01 | 0.01 | 0.04 |
| CHD7-49 | f | | CHARGE | CHD7 | c.3762T>A (p.His1254Gln) | VUS | CHARGE | 0.02 | 0.01 | 0.01 | 0.91 | 0.02 | 0 | 0.01 | 0.01 |
| CHD7-50 | m | | CHARGE | CHD7 | c.583C>T (p.Arg195Cys) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.99 |
| CHD7-54 | f | | CHARGE | CHD7 | c.1562C>T (p.Pro521Leu) | VUS | | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0.97 |
| CHD7-57 | f | | CHARGE | CHD7 | c.5666-9C>G | VUS | CHARGE | 0.01 | 0.01 | 0.01 | 0.96 | 0.01 | 0 | 0.01 | 0 |
| CHD7-59 | m | | CHARGE | CHD7 | c.1797_1799delGAA (p.Lys602del) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| CHD7-62 | f | | CHARGE | CHD7 | c.5429G>C (p.Arg1810Pro) | VUS | CHARGE | 0.03 | 0.01 | 0 | 0.77 | 0.01 | 0.01 | 0.01 | 0.16 |
| CHD7-65 | m | | CHARGE | CHD7 | c.5827C>T (p.Arg1943Trp) | VUS | | 0.01 | 0 | 0 | 0.08 | 0 | 0 | 0.01 | 0.89 |

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|---------|---|------|------------------------|--------------|------------------------------------|---------------|--------|------|------|------|------|------|------|------|------|
| CHD7-66 | m | | CHARGE | <i>CHD7</i> | c.317A>G (p.His106Arg) | VUS | | 0.01 | 0 | 0 | 0.11 | 0 | 0 | 0 | 0.86 |
| CHD7-67 | m | | CHARGE | <i>CHD7</i> | c.6529G>A (p.Gln2177Lys) | VUS | | 0.01 | 0.02 | 0.02 | 0.15 | 0.01 | 0 | 0.01 | 0.79 |
| CHD7-70 | f | | CHARGE | <i>CHD7</i> | c.6356A>G (p.Asp2119Gly) | VUS | CHARGE | 0.03 | 0.01 | 0.01 | 0.81 | 0.02 | 0.01 | 0.01 | 0.1 |
| MS0694 | f | 54 | Claes-Jensen - carrier | <i>KDM5C</i> | c.1510G>A; p.V504M | Pathogenic | | 0.03 | 0.01 | 0.01 | 0.03 | 0.02 | 0.01 | 0.1 | 0.8 |
| MS0696 | f | 31 | Claes-Jensen - carrier | <i>KDM5C</i> | c.1510G>A; p.V504M | Pathogenic | | 0.01 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0.04 | 0.92 |
| MS0725 | f | 66 | Claes-Jensen - carrier | <i>KDM5C</i> | c.229G>A; p.A77T | Pathogenic | | 0.03 | 0.01 | 0.01 | 0.03 | 0.01 | 0.01 | 0.11 | 0.79 |
| MS0729 | f | 17 | Claes-Jensen - carrier | <i>KDM5C</i> | c.229G>A; p.A77T | Pathogenic | | 0.02 | 0.01 | 0.01 | 0.03 | 0.02 | 0 | 0.1 | 0.82 |
| MS0730 | f | 51 | Claes-Jensen - carrier | <i>KDM5C</i> | c.4439_4440DdelAG; p.fsR1481fxX9 | Pathogenic | | 0.02 | 0.01 | 0 | 0.02 | 0.01 | 0 | 0.05 | 0.89 |
| MS0731 | f | 39 | Claes-Jensen - carrier | <i>KDM5C</i> | c.229G>A; p.A77T | Pathogenic | | 0.06 | 0.03 | 0.02 | 0.1 | 0.04 | 0.02 | 0.27 | 0.66 |
| MS0732 | f | 55 | Claes-Jensen - carrier | <i>KDM5C</i> | c.229G>A; p.A77T | Pathogenic | | 0.02 | 0.01 | 0.01 | 0.03 | 0.01 | 0 | 0.08 | 0.85 |
| MS0733 | f | 54 | Claes-Jensen - carrier | <i>KDM5C</i> | c.1510G>A; p.V504M | Pathogenic | | 0.05 | 0.02 | 0.01 | 0.06 | 0.03 | 0.01 | 0.14 | 0.68 |
| KDM6A | f | | Kabuki | <i>KDM6A</i> | c.2668_2669dupTA (p.Pro891Thrfs*8) | Pathogenic | Kabuki | 0.65 | 0.01 | 0.01 | 0.07 | 0.02 | 0.01 | 0.02 | 0.21 |
| MS0710 | f | 9.1 | Kabuki | <i>KMT2D</i> | c.8382C>A (p.G2794G) | Likely_Benign | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0712 | m | 10.8 | Kabuki | <i>KMT2D</i> | c.2438C>T (p.P813L) | Benign | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0714 | f | 14.4 | Kabuki | <i>KMT2D</i> | c.15540G>C (p.V5180V) | Likely_Benign | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0715 | f | 9.3 | Kabuki | <i>KMT2D</i> | c.5868-25G>A | Likely_Benign | | 0.24 | 0.01 | 0 | 0.02 | 0.01 | 0 | 0.01 | 0.71 |
| MS0716 | f | 1.3 | Kabuki | <i>KMT2D</i> | c.16229G>A (p.G5410E) | VUS | Kabuki | 0.9 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.04 |
| MS0717 | f | 9.2 | Kabuki | <i>KMT2D</i> | c.1938C>G (p.P646P) | Likely_Benign | | 0.07 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.91 |
| MS0718 | m | 2.8 | Kabuki | <i>KMT2D</i> | c.4265G>C (p.W1422S) | VUS | Kabuki | 0.62 | 0.02 | 0.01 | 0.03 | 0.02 | 0.01 | 0.01 | 0.3 |
| MS0734 | f | 3.6 | Kabuki | <i>KMT2D</i> | c.15641G>T (p.R5214L) | VUS | Kabuki | 0.9 | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.04 |
| MS0736 | f | 1.4 | Kabuki | <i>KMT2D</i> | c.3907-15C>G | Likely_Benign | | 0.06 | 0.01 | 0 | 0.01 | 0.01 | 0 | 0.01 | 0.9 |
| MS0742 | m | 1.2 | Kabuki | <i>KMT2D</i> | c.11750_11758del9 | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.98 |
| MS0791 | f | 2.8 | Kabuki | <i>KMT2D</i> | c.10741-42G>A | Likely_Benign | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0797 | m | 13.8 | Kabuki | <i>KMT2D</i> | c.12889T>C (p.S4297P) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0775 | m | 1.8 | Kabuki | <i>KMT2D</i> | c.4143G>A (p.V1381V) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0777 | m | 13.4 | Kabuki | <i>KMT2D</i> | c.401-11delC | Likely_Benign | | 0.02 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.97 |
| MS0779 | m | 6.3 | Kabuki | <i>KMT2D</i> | c.12913G>A (p.V4305I) | Likely_Benign | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0780 | m | 1.3 | Kabuki | <i>KMT2D</i> | c.6752C>T (p.S2251L) | Likely_Benign | | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |

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|----------|---|-----|------------------|--------------|---|------------|--------|------|------|------|------|------|------|------|------|
| MS0781 | f | 4.3 | Kabuki | <i>KMT2D</i> | c.15108_15110del3 (p.H5036_E5037delinsQ) | VUS | Kabuki | 0.94 | 0.01 | 0 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| MS0785 | m | 7.7 | Kabuki | <i>KMT2D</i> | c.13644C>T (p.S4548S) | Benign | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| KMT2D-12 | f | 4.5 | Kabuki | <i>KMT2D</i> | c.15143G>A (p.Arg5048His) | VUS | Kabuki | 0.9 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.04 |
| KMT2D-13 | m | 5 | Kabuki | <i>KMT2D</i> | c.12028 T>C (p.Ser4010Pro) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| KMT2D-14 | f | 15 | Kabuki | <i>KMT2D</i> | c.16522-5_16522-4delTT | VUS | Kabuki | 0.69 | 0.01 | 0.01 | 0.06 | 0.01 | 0.01 | 0.02 | 0.19 |
| KMT2D-15 | m | 14 | Kabuki | <i>KMT2D</i> | c.15910A>G (p.Ile5304Val) | VUS | | 0.01 | 0 | 0 | 0.17 | 0.01 | 0 | 0.01 | 0.79 |
| KMT2D-16 | m | 17 | Kabuki | <i>KMT2D</i> | c.15659G>A (p.Arg5220His) | VUS | | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.96 |
| KMT2D-17 | m | 9 | Kabuki | <i>KMT2D</i> | c.10256A>G (p.Asp3419Gly) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| KMT2D-18 | f | 16 | Kabuki | <i>KMT2D</i> | c.8974G>A (p.Glu2992Lys) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| KMT2D-19 | f | 8 | Kabuki | <i>KMT2D</i> | c.8831A>G (p.Asn2944Ser) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| KMT2D-20 | f | 10 | Kabuki | <i>KMT2D</i> | c.832G>A (p.Ala278Thr) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.99 |
| KMT2D-21 | m | 6 | Kabuki | <i>KMT2D</i> | c.682C>G (p.Arg228Gly) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| KMT2D-23 | m | | Kabuki | <i>KMT2D</i> | c.15587T>A (p.Met5196Lys) | VUS | | 0 | 0 | 0.01 | 0.03 | 0 | 0 | 0 | 0.95 |
| KMT2D-24 | f | | Kabuki | <i>KMT2D</i> | c.11150A>C (p.Gln3717Pro) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.98 |
| KMT2D-27 | m | | Kabuki | <i>KMT2D</i> | c.11578_11580dupCAG (p.Gln3863dup) | VUS | | 0 | 0 | 0 | 0.06 | 0 | 0 | 0 | 0.93 |
| KMT2D-28 | m | | Kabuki | <i>KMT2D</i> | c.10909C>A (p.Pro3637Thr) | VUS | | 0.01 | 0.01 | 0 | 0.22 | 0 | 0 | 0 | 0.75 |
| KMT2D-31 | m | | Kabuki | <i>KMT2D</i> | c.12662_12664dupAGC (p.Gln4221dup) | VUS | | 0 | 0 | 0 | 0.03 | 0 | 0 | 0 | 0.96 |
| KMT2D-34 | f | | Kabuki | <i>KMT2D</i> | c.2334C>G (p.Cys778Trp) | VUS | | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0.88 |
| KMT2D-35 | f | | Kabuki | <i>KMT2D</i> | c.14731_14733delCCT (p.Pro4911del) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| KMT2D-37 | f | | Kabuki | <i>KMT2D</i> | c.15626G>T (p.Gly5209Val) | VUS | Kabuki | 0.79 | 0.01 | 0.01 | 0.04 | 0.01 | 0.01 | 0.01 | 0.11 |
| DL141677 | m | 18 | Sotos_fibroblast | <i>NSDI</i> | ex20-21 del (1860-2086 aa) | Pathogenic | Sotos | 0.03 | 0.1 | 0.65 | 0.03 | 0.05 | 0.01 | 0.03 | 0.1 |
| 51537F | f | 1.6 | Sotos_fibroblast | <i>NSDI</i> | c.1810C>T (p.Arg604*) | Pathogenic | Sotos | 0.05 | 0.1 | 0.58 | 0.04 | 0.05 | 0.01 | 0.03 | 0.13 |
| SF155 | f | | Sotos_fibroblast | <i>NSDI</i> | c.2362C>T (p.Arg788*) | Pathogenic | Sotos | 0.06 | 0.1 | 0.62 | 0.04 | 0.04 | 0.01 | 0.03 | 0.1 |
| DL208122 | m | 2.3 | Sotos | <i>NSDI</i> | c.6437G>C (p.Cys2146Ser) | VUS | Sotos | 0.03 | 0.03 | 0.68 | 0.06 | 0.01 | 0.01 | 0.02 | 0.17 |
| DL136303 | f | 5 | Sotos | <i>NSDI</i> | c.5779G>C (p.Ala1927Pro) | VUS | Sotos | 0.01 | 0.02 | 0.86 | 0.04 | 0.01 | 0.01 | 0.01 | 0.04 |
| DL199861 | m | 7 | Sotos | <i>NSDI</i> | c.6412T>C (p.Cys2138Arg) | VUS | Sotos | 0.03 | 0.03 | 0.65 | 0.06 | 0.02 | 0.01 | 0.02 | 0.19 |
| DL181344 | m | 13 | Sotos | <i>NSDI</i> | c.4949A>G (p.Asn1650Ser) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| DL73286 | m | 10 | Sotos | <i>NSDI</i> | c.3722G>C (p.Ser1241Thr) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.99 |

| | | | | | | | | | | | | | | | |
|----------|---|-----|-----------------------------------|--------------|--------------------------|------------|-----------------|------|------|------|------|------|------|------|------|
| DL159025 | m | 2.5 | Sotos | <i>NSDI</i> | c.6013C>G (p.Arg2005Gly) | VUS | Sotos | 0.01 | 0.02 | 0.9 | 0.02 | 0.01 | 0.01 | 0.01 | 0.03 |
| HK-9776 | f | | Sotos | <i>NSDI</i> | c.1070A>G (p.Asn357Ser) | VUS | | 0.01 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.98 |
| HK-12366 | f | | Sotos | <i>NSDI</i> | c.3446A>G (p.Asn1149Ser) | VUS | | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.97 |
| HK-5474 | f | | Sotos | <i>NSDI</i> | c.4817G>A (p.Cys1606Tyr) | VUS | Sotos | 0.01 | 0.02 | 0.84 | 0.06 | 0.01 | 0.01 | 0.01 | 0.03 |
| HK-11693 | f | | Sotos | <i>NSDI</i> | c.5177C>G (p.Pro1726Arg) | VUS | Sotos | 0.01 | 0.02 | 0.9 | 0.02 | 0.01 | 0 | 0.01 | 0.04 |
| HK-11767 | f | | Sotos | <i>NSDI</i> | c.5357A>G (p.Lys1786Arg) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| HK-5581 | m | | Sotos | <i>NSDI</i> | c.5903T>C (p.Val1968Ala) | VUS | | 0.03 | 0.02 | 0.1 | 0.17 | 0.01 | 0.01 | 0.02 | 0.59 |
| HK-3326 | f | | Sotos | <i>NSDI</i> | c.5990A>G (p.Tyr1997Cys) | VUS | Sotos | 0.02 | 0.02 | 0.81 | 0.04 | 0.01 | 0.01 | 0.01 | 0.08 |
| HK-435 | m | | Sotos | <i>NSDI</i> | c.6049C>T (p.Arg2017Trp) | VUS | Sotos | 0.01 | 0.02 | 0.89 | 0.03 | 0.01 | 0.01 | 0.01 | 0.03 |
| HK-6943 | m | | Sotos | <i>NSDI</i> | c.6674C>A (p.Pro2225Gln) | VUS | | 0 | 0 | 0 | 0.01 | 0 | 0 | 0 | 0.99 |
| HK-14867 | m | | Sotos | <i>NSDI</i> | c.7421A>G (p.Gln2474Arg) | VUS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.99 |
| MS0436 | f | 40 | Floating Harbor (Sex mismatch) | <i>SRCAP</i> | p.Arg2748* | Pathogenic | Floating Harbor | 0.02 | 0.02 | 0.01 | 0.02 | 0.87 | 0.01 | 0.02 | 0.03 |

Reference sequence for all mutations is hg19, except for NSDI mutations (hg18)