

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-------------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr1 | 52947351 | 52947351 | Heterozygous A | - | - | Novel | ZCCHC11 | INTRONIC | |
| chr1 | 52947351 | 52947351 | Heterozygous A | - | - | Novel | ZCCHC11 | INTRONIC | |
| chr1 | 53158524 | 53158524 | Heterozygous A | C | - | Novel | C1orf163 | NON_SYNONYIV->G | |
| chr1 | 53384909 | 53384910 | Heterozygous AA | - | - | Novel | ECHDC2 | INTRONIC | |
| chr1 | 53377216 | 53377216 | Heterozygous G | C | - | Novel | ECHDC2 | INTRONIC | |
| chr1 | 54252940 | 54252940 | Heterozygous A | - | - | Novel | TMEM48 | INTRONIC | |
| chr1 | 54252940 | 54252940 | Heterozygous A | - | - | Novel | TMEM48 | INTRONIC | |
| chr1 | 54252940 | 54252940 | Heterozygous A | - | - | Novel | TMEM48 | INTRONIC | |
| chr1 | 54370235 | 54370236 | Heterozygous - | G | - | Novel | DIO1 | INTRONIC | |
| chr1 | 54370235 | 54370236 | Heterozygous - | G | - | Novel | DIO1 | INTRONIC | |
| chr1 | 54370235 | 54370236 | Heterozygous - | G | - | Novel | DIO1 | INTRONIC | |
| chr1 | 54370235 | 54370236 | Heterozygous - | G | - | Novel | DIO1 | INTRONIC | |
| chr1 | 54395674 | 54395674 | Heterozygous A | - | - | Novel | HSPB11 | INTRONIC | |
| chr1 | 55064898 | 55064898 | Homozygous A | T | - | Novel | ACOT11 | INTRONIC | |
| chr1 | 55064898 | 55064898 | Homozygous A | T | - | Novel | ACOT11 | INTRONIC | |
| chr1 | 55599890 | 55599890 | Heterozygous A | G | - | Novel | USP24 | INTRONIC | |
| chr1 | 57425889 | 57425889 | Heterozygous G | - | - | Novel | C8B | INTRONIC | |
| chr1 | 58521722 | 58521722 | Heterozygous T | - | - | Novel | DAB1 | INTRONIC | |
| chr1 | 60326045 | 60326045 | Heterozygous C | G | - | Novel | HOOK1 | INTRONIC | |
| chr1 | 64022709 | 64022709 | Heterozygous A | - | - | Novel | EFCAB7 | INTRONIC | |
| chr1 | 65129234 | 65129235 | Heterozygous AA | - | - | Novel | CACHD1 | INTRONIC | |
| chr1 | 65129234 | 65129235 | Heterozygous AA | -A | - | Novel | CACHD1 | INTRONIC | |
| chr1 | 65131893 | 65131893 | Heterozygous A | - | - | Novel | CACHD1 | INTRONIC | |
| chr1 | 67109410 | 67109411 | Heterozygous ---- | GTGTG | - | Novel | SGIP1 | SPICE_SITE | |
| chr1 | 67154731 | 67154732 | Heterozygous AA | - | - | Novel | SGIP1 | INTRONIC | |
| chr1 | 67154731 | 67154732 | Heterozygous AA | -A | - | Novel | SGIP1 | INTRONIC | |
| chr1 | 68952565 | 68952566 | Heterozygous AC | - | - | Novel | DEPDC1 | INTRONIC | |
| chr1 | 68952565 | 68952566 | Heterozygous AC | - | - | Novel | DEPDC1 | INTRONIC | |
| chr1 | 75814381 | 75814381 | Heterozygous T | - | - | Novel | LHX8 | INTRONIC | |
| chr1 | 78775659 | 78775659 | Heterozygous G | T | - | Novel | STGALNAC | INTRONIC | |
| chr1 | 78775659 | 78775659 | Heterozygous G | T | - | Novel | STGALNAC | INTRONIC | |
| chr1 | 77835178 | 77835178 | Heterozygous CTC | - | - | Novel | PIGK | INTRONIC | |
| chr1 | 78098575 | 78098575 | Heterozygous T | C | - | Novel | ZZZ3 | SYNONYMOUS_CODING | |
| chr1 | 78471050 | 78471050 | Heterozygous T | - | - | Novel | DNAJB4 | INTRONIC | |
| chr1 | 82435079 | 82435079 | Heterozygous C | T | - | Novel | LPHN2 | SPICE_SITE | |
| chr1 | 88909728 | 88909728 | Heterozygous C | T | - | Novel | GLCA2 | INTRONIC | |
| chr1 | 92708439 | 92708439 | Heterozygous G | C | - | Novel | C1orf148 | INTRONIC | |
| chr1 | 9389819 | 9389819 | Heterozygous A | G | - | Novel | ABCA4 | GENIC | |
| chr1 | 94544805 | 94544806 | Heterozygous - | CA | - | Novel | DPYD | INTRONIC | |
| chr1 | 98015088 | 98015088 | Heterozygous T | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 100379180 | 100379180 | Heterozygous G | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 100379180 | 100379180 | Heterozygous G | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 100379180 | 100379180 | Heterozygous G | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 100379180 | 100379180 | Heterozygous G | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 100379180 | 100379180 | Heterozygous G | A | - | Novel | AGL | NON_SYNONYIE->K | |
| chr1 | 103471457 | 103471457 | Heterozygous CAT | - | - | Novel | COL11A1 | INTRONIC | |
| chr1 | 103471457 | 103471457 | Heterozygous CAT | - | - | Novel | COL11A1 | INTRONIC | |
| chr1 | 103471457 | 103471457 | Heterozygous CAT | - | - | Novel | COL11A1 | INTRONIC | |
| chr1 | 103471457 | 103471457 | Heterozygous CAT | - | - | Novel | COL11A1 | INTRONIC | |
| chr1 | 109261321 | 109261322 | Heterozygous - | A | - | Novel | FNDC7 | INTRONIC | |
| chr1 | 109816144 | 109816144 | Heterozygous C | T | - | Novel | CELSR2 | NON_SYNONYIR->W | |
| chr1 | 109856844 | 109856844 | Heterozygous G | C | - | Novel | SORT1 | INTRONIC | |
| chr1 | 110199226 | 110199226 | Homozygous G | - | - | Novel | GSTM4 | INTRONIC | |
| chr1 | 110199226 | 110199226 | Homozygous G | - | - | Novel | GSTM4 | INTRONIC | |
| chr1 | 110199226 | 110199226 | Homozygous G | - | - | Novel | GSTM4 | INTRONIC | |
| chr1 | 110591955 | 110591955 | Heterozygous C | T | - | Novel | FAM40A | INTRONIC | |
| chr1 | 110592049 | 110592049 | Heterozygous T | - | - | Novel | FAM40A | INTRONIC | |
| chr1 | 110923541 | 110923541 | Heterozygous A | G | - | Novel | SLC16A4 | INTRONIC | |
| chr1 | 112305407 | 112305407 | Heterozygous A | - | - | Novel | DDX20 | SPICE_SITE | |
| chr1 | 114442355 | 114442356 | Heterozygous - | A | - | Novel | AP4B1 | INTRONIC | |
| chr1 | 114495348 | 114495348 | Heterozygous - | T | - | Novel | HIPK1 | INTRONIC | |
| chr1 | 114495348 | 114495349 | Heterozygous - | T | - | Novel | HIPK1 | INTRONIC | |
| chr1 | 114495348 | 114495349 | Heterozygous - | T | - | Novel | HIPK1 | UPSTREAM | |
| chr1 | 114495348 | 114495349 | Heterozygous - | T | - | Novel | HIPK1 | INTRONIC | |
| chr1 | 115185724 | 115185724 | Heterozygous A | G | - | Novel | DENND2C | SPICE_SITE | |
| chr1 | 115222966 | 115222966 | Heterozygous A | G | - | Novel | AMPD1 | SYNONYMOUS_CODING | |
| chr1 | 115222966 | 115222966 | Heterozygous A | G | - | Novel | AMPD1 | SYNONYMOUS_CODING | |
| chr1 | 115829134 | 115829134 | Heterozygous G | A | - | Novel | NGF | NON_SYNONYIR->C | |
| chr1 | 117860705 | 117860705 | Heterozygous C | T | - | Novel | TRIM45 | SYNONYMOUS_CODING | |
| chr1 | 117860705 | 117860705 | Heterozygous C | T | - | Novel | TRIM45 | SPICE_SITE | |
| chr1 | 118550555 | 118550555 | Homozygous T | G | - | Novel | SPAG17 | INTRONIC | |
| chr1 | 120295048 | 120295048 | Heterozygous C | T | - | Novel | HMGCS2 | INTRONIC | |
| chr1 | 120295048 | 120295048 | Heterozygous C | T | - | Novel | HMGCS2 | INTRONIC | |
| chr1 | 144220777 | 144220777 | Heterozygous T | C | - | Novel | GENIC | GENIC | |
| chr1 | 144220807 | 144220807 | Heterozygous A | C | - | Novel | GENIC | GENIC | |
| chr1 | 144220850 | 144220850 | Heterozygous T | G | - | Novel | GENIC | GENIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|------------------|-----------|----------|----------------------|-------------|----------------------|-------------------|
| chr1 | 144618043 | 144618043 | Heterozygous C | A | - | Novel | GENIC | GENIC | |
| chr1 | 144619507 | 144619507 | Heterozygous C | A | - | Novel | GENIC | GENIC | |
| chr1 | 144892285 | 144892285 | Heterozygous T | C | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144892285 | 144892285 | Heterozygous T | C | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144892285 | 144892285 | Heterozygous T | C | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144905993 | 144905993 | Heterozygous A | - | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144905993 | 144905993 | Heterozygous A | - | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144905993 | 144905993 | Heterozygous A | - | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 144821911 | 144821911 | Heterozygous T | C | - | Novel | PDE4DIP | NON_SYNONYIK->R | |
| chr1 | 144921911 | 144921911 | Heterozygous T | C | - | Novel | PDE4DIP | NON_SYNONYIK->R | |
| chr1 | 144923729 | 144923729 | Heterozygous T | - | - | Novel | PDE4DIP | NON_SYNONYIK->R | |
| chr1 | 144823729 | 144823729 | Heterozygous T | - | - | Novel | PDE4DIP | FRAMESHIFT_CODING | |
| chr1 | 144823729 | 144823729 | Heterozygous T | - | - | Novel | PDE4DIP | FRAMESHIFT_CODING | |
| chr1 | 145039691 | 145039691 | Heterozygous G | A | - | Novel | PDE4DIP | INTRONIC | |
| chr1 | 145304667 | 145304667 | Heterozygous C | T | - | Novel | NBPFF10 | INTRONIC | |
| chr1 | 145323056 | 145323056 | Heterozygous A | T | - | Novel | NBPFF10 | EXONIC | |
| chr1 | 145323757 | 145323757 | Heterozygous A | T | - | Novel | NBPFF10 | INTRONIC | |
| chr1 | 145368411 | 145368411 | Heterozygous C | G | - | Novel | NBPFF10 | INTRONIC | |
| chr1 | 145456733 | 145456733 | Heterozygous A | - | - | Novel | POLR3GL | INTRONIC | |
| chr1 | 145562375 | 145562375 | Heterozygous A | G | - | Novel | ANKRD35 | NON_SYNONYIE->G | |
| chr1 | 145850410 | 145850410 | Heterozygous A | G | - | Novel | RNF151 | INTRONIC | |
| chr1 | 145748588 | 145748589 | Heterozygous - | T | - | Novel | PDZK1 | ESSENTIAL_SPICE_SITE | |
| chr1 | 147380359 | 147380359 | Heterozygous G | A | - | Novel | GJAB | NON_SYNONYIV->M | |
| chr1 | 147400714 | 147400715 | Heterozygous - | AC | - | Novel | GPR98B | INTRONIC | |
| chr1 | 148008746 | 148008746 | Heterozygous G | C | - | Novel | NBPFF14 | INTRONIC | |
| chr1 | 148009349 | 148009349 | Heterozygous A | G | - | Novel | NBPFF14 | NON_SYNONYIM->T | |
| chr1 | 150932954 | 150932954 | Heterozygous A | - | - | Novel | SETDB1 | INTRONIC | |
| chr1 | 150932954 | 150932954 | Heterozygous A | - | - | Novel | SETDB1 | INTRONIC | |
| chr1 | 150989222 | 150989222 | Heterozygous T | - | - | Novel | PRUNE | INTRONIC | |
| chr1 | 151090057 | 151090057 | Heterozygous C | T | - | Novel | GABPB2 | INTRONIC | |
| chr1 | 151381321 | 151381321 | Heterozygous A | - | - | Novel | POGZ | INTRONIC | |
| chr1 | 151381321 | 151381321 | Heterozygous A | - | - | Novel | POGZ | INTRONIC | |
| chr1 | 151381321 | 151381321 | Heterozygous A | - | - | Novel | POGZ | INTRONIC | |
| chr1 | 151381321 | 151381321 | Heterozygous A | - | - | Novel | POGZ | INTRONIC | |
| chr1 | 152191809 | 152191809 | Heterozygous C | T | - | Novel | HRNR | NON_SYNONYIG->S | |
| chr1 | 152881889 | 152881889 | Heterozygous G | C | - | Novel | LGEA8 | SYNONYMOUS_CODING | |
| chr1 | 152759836 | 152759836 | Heterozygous C | A | - | Novel | LGE1E | NON_SYNONYIP->T | |
| chr1 | 153639469 | 153639470 | Heterozygous TA | - | - | Novel | ILF2 | INTRONIC | |
| chr1 | 153921484 | 153921484 | Heterozygous C | - | - | Novel | CRTC2 | INTRONIC | |
| chr1 | 153863995 | 153863996 | Heterozygous - | AG | - | Novel | RP527 | INTRONIC | |
| chr1 | 153863995 | 153863996 | Heterozygous - | AG | - | Novel | NUP210L | DOWNSTREAM | |
| chr1 | 153863995 | 153863996 | Heterozygous - | AG | - | Novel | NUP210L | DOWNSTREAM | |
| chr1 | 154042864 | 154042864 | Heterozygous C | T | - | Novel | NUP210L | INTRONIC | |
| chr1 | 154042864 | 154042864 | Heterozygous C | T | - | Novel | NUP210L | INTRONIC | |
| chr1 | 154067577 | 154067577 | Heterozygous A | G | - | Novel | NUP210L | NON_SYNONYIV->A | |
| chr1 | 154067577 | 154067577 | Heterozygous A | G | - | Novel | NUP210L | NON_SYNONYIV->A | |
| chr1 | 154112164 | 154112164 | Heterozygous A | - | - | Novel | NUP210L | INTRONIC | |
| chr1 | 154112164 | 154112164 | Heterozygous A | - | - | Novel | NUP210L | INTRONIC | |
| chr1 | 155583044 | 155583046 | Heterozygous AGG | - | - | Novel | MSTO1 | INTRONIC | |
| chr1 | 155658184 | 155658184 | Heterozygous C | A | - | Novel | YY1AP1 | INTRONIC | |
| chr1 | 155658184 | 155658184 | Heterozygous C | A | - | Novel | YY1AP1 | INTRONIC | |
| chr1 | 155658184 | 155658184 | Heterozygous C | A | - | Novel | DAP3 | UPSTREAM | |
| chr1 | 155658184 | 155658184 | Heterozygous C | A | - | Novel | DAP3 | UPSTREAM | |
| chr1 | 155734699 | 155734699 | Heterozygous T | C | - | Novel | GON4L | NON_SYNONYID->G | |
| chr1 | 155734699 | 155734699 | Heterozygous T | C | - | Novel | GON4L | INTRONIC | |
| chr1 | 155851325 | 155851325 | Heterozygous C | T | - | Novel | SYT11 | 3PRIME_UTR | |
| chr1 | 156256039 | 156256039 | Heterozygous A | T | - | Novel | TMEM79 | INTRONIC | |
| chr1 | 156256039 | 156256039 | Heterozygous A | T | - | Novel | TMEM79 | INTRONIC | |
| chr1 | 156518056 | 156518056 | Heterozygous C | T | - | Novel | IQGAP3 | INTRONIC | |
| chr1 | 156877575 | 156877575 | Heterozygous T | C | - | Novel | PEAR1 | INTRONIC | |
| chr1 | 156918096 | 156918096 | Heterozygous T | C | - | Novel | ARHGEF11 | INTRONIC | |
| chr1 | 156918096 | 156918096 | Heterozygous T | C | - | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|------------------------|-------------------|
| chr1 | 158326447 | 158326448 | Heterozygous | - | T | Novel | CD1E | INTRONIC | |
| chr1 | 158326447 | 158326448 | Heterozygous | - | T | Novel | CD1E | INTRONIC | |
| chr1 | 158596629 | 158596629 | Heterozygous | C | T | Novel | SPTA1 | NON_SYNONYMI(A)->T | |
| chr1 | 158645872 | 158645872 | Heterozygous | G | A | Novel | SPTA1 | INTRONIC | |
| chr1 | 159162271 | 159162271 | Heterozygous | C | T | Novel | CADM3 | INTRONIC | |
| chr1 | 159162271 | 159162271 | Heterozygous | C | T | Novel | CADM3 | INTRONIC | |
| chr1 | 159897682 | 159897683 | Heterozygous | AA | --- | Novel | IGSF9 | SPLICE_SITE | |
| chr1 | 159897682 | 159897683 | Heterozygous | AA | -A | Novel | IGSF9 | SPLICE_SITE | |
| chr1 | 159897682 | 159897683 | Heterozygous | AA | --- | Novel | IGSF9 | SPLICE_SITE | |
| chr1 | 159897682 | 159897683 | Heterozygous | AA | -A | Novel | IGSF9 | SPLICE_SITE | |
| chr1 | 160105964 | 160105964 | Heterozygous | G | A | Novel | ATP1A2 | INTRONIC | |
| chr1 | 160650966 | 160650966 | Heterozygous | C | G | Novel | CD48 | INTRONIC | |
| chr1 | 160970396 | 160970396 | Heterozygous | C | T | Novel | F11R | INTRONIC | |
| chr1 | 161019124 | 161019124 | Heterozygous | C | T | Novel | ARHGAP30 | NON_SYNONYMI(V)->M | |
| chr1 | 161019124 | 161019124 | Heterozygous | C | T | Novel | ARHGAP30 | NON_SYNONYMI(V)->M | |
| chr1 | 161162097 | 161162097 | Heterozygous | G | A | Novel | ADAMTS4 | INTRONIC | |
| chr1 | 161310262 | 161310262 | Heterozygous | A | - | Novel | SDHC | INTRONIC | |
| chr1 | 161310262 | 161310262 | Heterozygous | A | - | Novel | SDHC | INTRONIC | |
| chr1 | 161310262 | 161310262 | Heterozygous | A | - | Novel | SDHC | INTRONIC | |
| chr1 | 161310262 | 161310262 | Heterozygous | A | - | Novel | SDHC | INTRONIC | |
| chr1 | 162725579 | 162725579 | Heterozygous | A | T | Novel | DDR2 | INTRONIC | |
| chr1 | 162725579 | 162725579 | Heterozygous | A | T | Novel | DDR2 | INTRONIC | |
| chr1 | 163315722 | 163315722 | Heterozygous | C | T | Novel | NUP2 | INTRONIC | |
| chr1 | 163315722 | 163315722 | Heterozygous | C | T | Novel | NUP2 | INTRONIC | |
| chr1 | 167385178 | 167385178 | Heterozygous | G | A | Novel | POU2F1 | 3PRIME_UTR | |
| chr1 | 167814812 | 167814812 | Heterozygous | T | C | Novel | ADCY10 | NON_SYNONYMI(H)->R | |
| chr1 | 167814812 | 167814812 | Heterozygous | T | C | Novel | ADCY10 | NON_SYNONYMI(H)->R | |
| chr1 | 168260377 | 168260378 | Heterozygous | --- | GTTTC | Novel | TBX19 | INTRONIC | |
| chr1 | 169435305 | 169435306 | Heterozygous | - | A | Novel | SLC19A2 | INTRONIC | |
| chr1 | 169811763 | 169811763 | Heterozygous | G | C | Novel | C1orf112 | INTRONIC | |
| chr1 | 170501522 | 170501522 | Heterozygous | C | - | Novel | GORAB | INTRONIC | |
| chr1 | 170501522 | 170501522 | Heterozygous | C | - | Novel | GORAB | INTRONIC | |
| chr1 | 170501522 | 170501522 | Heterozygous | C | - | Novel | GORAB | INTRONIC | |
| chr1 | 170927571 | 170927571 | Heterozygous | T | - | Novel | C1orf129 | INTRONIC | |
| chr1 | 171514875 | 171514876 | Heterozygous | --- | ATTC | Novel | BAT2L2 | INTRONIC | |
| chr1 | 173490409 | 173490409 | Heterozygous | A | - | Novel | SLC9A11 | INTRONIC | |
| chr1 | 173506199 | 173506199 | Heterozygous | G | A | Novel | SLC9A11 | INTRONIC | |
| chr1 | 173933946 | 173933946 | Heterozygous | T | C | Novel | RC3H1 | INTRONIC | |
| chr1 | 175046779 | 175046779 | Heterozygous | G | A | Novel | TNN | SYNONYMOUS_CODING | |
| chr1 | 176926877 | 176926877 | Heterozygous | G | A | Novel | ASTN1 | SYNONYMOUS_CODING | |
| chr1 | 176926877 | 176926877 | Heterozygous | G | A | Novel | ASTN1 | SYNONYMOUS_CODING | |
| chr1 | 178359424 | 178359424 | Heterozygous | T | A | Novel | RASAL2 | INTRONIC | |
| chr1 | 178359424 | 178359424 | Heterozygous | T | A | Novel | RASAL2 | INTRONIC | |
| chr1 | 178490849 | 178490849 | Heterozygous | C | T | Novel | C1orf49 | INTRONIC | |
| chr1 | 178490849 | 178490849 | Heterozygous | C | T | Novel | C1orf49 | INTRONIC | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179100462 | 179100462 | Heterozygous | T | A | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179314049 | 179314049 | Heterozygous | C | T | Novel | ABL2 | SYNONYMOUS_CODING | |
| chr1 | 179398730 | 179398730 | Heterozygous | C | T | Novel | SOAT1 | INTRONIC | |
| chr1 | 179428319 | 179428319 | Heterozygous | G | A | Novel | C1orf125 | SYNONYMOUS_CODING | |
| chr1 | 179428319 | 179428319 | Heterozygous | G | A | Novel | C1orf125 | INTRONIC | |
| chr1 | 180002916 | 180002916 | Heterozygous | T | C | Novel | CEP350 | INTRONIC | |
| chr1 | 182378437 | 182378437 | Heterozygous | T | C | Novel | NCRNA00272 | EXONIC | |
| chr1 | 182550360 | 182550360 | Heterozygous | C | T | Novel | RNASEL | SYNONYMOUS_CODING,SPLI | |
| chr1 | 184702196 | 184702196 | Heterozygous | G | A | Novel | EDEM3 | INTRONIC | |
| chr1 | 184764727 | 184764727 | Heterozygous | A | G | Novel | FAM129A | NON_SYNONYMI(V)->A | |
| chr1 | 185976201 | 185976201 | Heterozygous | A | C | Novel | HMCN1 | INTRONIC | |
| chr1 | 186147954 | 186147954 | Heterozygous | A | G | Novel | HMCN1 | INTRONIC | |
| chr1 | 186310271 | 186310271 | Heterozygous | A | C | Novel | TPR | SYNONYMOUS_CODING | |
| chr1 | 196309700 | 196309700 | Heterozygous | G | T | Novel | KCNT2 | SYNONYMOUS_CODING,SPLI | |
| chr1 | 196757555 | 196757555 | Heterozygous | G | T | Novel | CFHR3 | INTRONIC | |
| chr1 | 196757555 | 196757555 | Heterozygous | G | T | Novel | CFHR3 | INTRONIC | |
| chr1 | 197104475 | 197104475 | Heterozygous | G | C | Novel | ASPM | INTRONIC | |
| chr1 | 200007922 | 200007923 | Heterozygous | - | T | Novel | NRS5A2 | INTRONIC | |
| chr1 | 200007922 | 200007923 | Heterozygous | - | T | Novel | NRS5A2 | INTRONIC | |
| chr1 | 200971526 | 200971527 | Heterozygous | - | G | Novel | KIF21B | INTRONIC | |
| chr1 | 201860486 | 201860486 | Heterozygous | T | C | Novel | | GENIC | |
| chr1 | 202194507 | 202194507 | Heterozygous | A | C | Novel | LGR6 | INTRONIC | |
| chr1 | 202194507 | 202194507 | Heterozygous | A | C | Novel | LGR6 | INTRONIC | |
| chr1 | 202194507 | 202194507 | Heterozygous | A | C | Novel | LGR6 | INTRONIC | |
| chr1 | 202794729 | 202794729 | Heterozygous | T | C | Novel | | GENIC | |
| chr1 | 202893987 | 202893988 | Heterozygous | CA | --- | Novel | KLHL12 | INTRONIC | |

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|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|--------------------|-------------------|
| chr1 | 202990111 | 202990113 | Heterozygous | TTT | --- | Novel | TMEM183A | INTRONIC | |
| chr1 | 203135001 | 203135001 | Heterozygous | T | C | Novel | ADORA1 | SYNONYMOUS_CODING | |
| chr1 | 203135001 | 203135001 | Heterozygous | T | C | Novel | ADORA1 | SYNONYMOUS_CODING | |
| chr1 | 203135001 | 203135001 | Heterozygous | T | C | Novel | MYBPB | DOWNSTREAM | |
| chr1 | 203708820 | 203708820 | Heterozygous | G | A | Novel | ATP2B4 | SYNONYMOUS_CODING | |
| chr1 | 203708820 | 203708820 | Heterozygous | G | A | Novel | ATP2B4 | 3PRIME_UTR | |
| chr1 | 204006551 | 204006551 | Heterozygous | C | T | Novel | C1orf157 | INTRONIC | |
| chr1 | 204438775 | 204438775 | Heterozygous | G | A | Novel | PIK3C2B | SYNONYMOUS_CODING | |
| chr1 | 205131391 | 205131391 | Heterozygous | C | T | Novel | DSTYK | INTRONIC | |
| chr1 | 205131391 | 205131391 | Heterozygous | C | T | Novel | DSTYK | INTRONIC | |
| chr1 | 205388353 | 205388353 | Heterozygous | G | A | Novel | LEM01 | SPLICE_SITE | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | IL24 | NON_SYNONYMI(L)->V | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | IL24 | NON_SYNONYMI(S)->R | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | IL24 | NON_SYNONYMI(L)->V | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | IL24 | NON_SYNONYMI(L)->V | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | FAIM3 | DOWNSTREAM | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | FAIM3 | DOWNSTREAM | |
| chr1 | 207076321 | 207076321 | Heterozygous | T | G | Novel | FAIM3 | DOWNSTREAM | |
| chr1 | 207134591 | 207134591 | Heterozygous | C | T | Novel | FCAMR | INTRONIC | |
| chr1 | 207134591 | 207134591 | Heterozygous | C | T | Novel | FCAMR | INTRONIC | |
| chr1 | 207134591 | 207134591 | Heterozygous | C | T | Novel | FCAMR | INTRONIC | |
| chr1 | 207787834 | 207787834 | Heterozygous | C | A | Novel | CR1 | NON_SYNONYMI(Q)->K | |
| chr1 | 207787834 | 207787834 | Heterozygous | C | A | Novel | CR1 | NON_SYNONYMI(Q)->K | |
| chr1 | 207851487 | 207851488 | Heterozygous | - | A | Novel | CR1L | INTRONIC | |
| chr1 | 208093134 | 208093134 | Heterozygous | C | T | Novel | CD34 | INTRONIC | |
| chr1 | 208093134 | 208093134 | Heterozygous | C | T | Novel | CD34 | INTRONIC | |
| chr1 | 208391121 | 208391121 | Heterozygous | G | A | Novel | PLXNA2 | SYNONYMOUS_CODING | |
| chr1 | 208870872 | 208870872 | Heterozygous | C | T | Novel | | GENIC | |
| chr1 | 209879006 | 209879006 | Heterozygous | C | T | Novel | HSD11B1 | INTRONIC | |
| chr1 | 209879006 | 209879006 | Heterozygous | C | T | Novel | HSD11B1 | INTRONIC | |
| chr1 | 212220719 | 212220719 | Heterozygous | A | G | Novel | DTL | SYNONYMOUS_CODING | |
| chr1 | 213068542 | 213068543 | Heterozygous | --- | TGAT | Novel | FLVCR1 | INTRONIC | |
| chr1 | 215823989 | 215823989 | Heterozygous | T | C | Novel | USH2A | INTRONIC | |
| chr1 | 215848845 | 215848845 | Heterozygous | T | C | Novel | USH2A | NON_SYNONYMI(Q)->R | |
| chr1 | 217856788 | 217856788 | Heterozygous | - | T | Novel | SPTA17 | INTRONIC | |
| chr1 | 218610663 | 218610663 | Heterozygous | T | - | Novel | TGF2 | INTRONIC | |
| chr1 | 218610663 | 218610663 | Heterozygous | T | - | Novel | TGF2 | INTRONIC | |
| chr1 | 220284113 | 220284113 | Heterozygous | T | - | Novel | IARS2 | INTRONIC | |
| chr1 | 220369746 | 220369746 | Heterozygous | A | - | Novel | RAB39A2 | SPLICE_SITE | |
| chr1 | 222823739 | 222823739 | Heterozygous | T | - | Novel | MI3 | INTRONIC | |
| chr1 | 222860921 | 222860921 | Heterozygous | T | - | Novel | AIDA | INTRONIC | |
| chr1 | 223408496 | 223408497 | Heterozygous | - | A | Novel | SUSD4 | INTRONIC | |
| chr1 | 223408496 | 223408497 | Heterozygous | - | A | Novel | SUSD4 | INTRONIC | |
| chr1 | 223984306 | 223984307 | Heterozygous | - | A | Novel | TP53BP2 | INTRONIC | |
| chr1 | 223984306 | 223984307 | Heterozygous | - | A | Novel | TP53BP2 | INTRONIC | |
| chr1 | 225155111 | 225155111 | Heterozygous | A | - | Novel | DNAH14 | INTRONIC | |
| chr1 | 225155111 | 225155111 | Heterozygous | A | - | Novel | DNAH14 | INTRONIC | |
| chr1 | 225155111 | 225155111 | Heterozygous | A | - | Novel | DNAH14 | INTRONIC | |
| chr1 | 225586738 | 225586738 | Heterozygous | T | - | Novel | DNAH14 | INTRONIC | |
| chr1 | 226059795 | 226059795 | Heterozygous | A | - | Novel | TMEM63A | INTRONIC | |
| chr1 | 226438485 | 226438488 | Heterozygous | CTCA | --- | Novel | LIN9 | INTRONIC | |
| chr1 | 228475733 | 228475733 | Heterozygous | G | A | Novel | OBSCN | INTRONIC | |
| chr1 | 228475733 | 228475733 | Heterozygous | G | A | Novel | OBSCN | INTRONIC | |
| chr1 | 228487935 | 228487935 | Heterozygous | G | A | Novel | OBSCN | INTRONIC | |
| chr1 | 228487935 | 228487935 | Heterozygous | G | A | Novel | OBSCN | INTRONIC | |
| chr1 | 228528327 | 228528327 | Heterozygous | G | C | Novel | OBSCN | SPLICE_SITE | |
| chr1 | 228528327 | 228528327 | Heterozygous | G | C | Novel | OBSCN | SPLICE_SITE | |
| chr1 | 228550979 | 228550979 | Heterozygous | G | A | Novel | OBSCN | NON_SYNONYMI(V)->I | |
| chr1 | 230907783 | 230907783 | Heterozygous | C | T | Novel | CAPN9 | SYNONYMOUS_CODING | |
| chr1 | 230907783 | 230907783 | Heterozygous | C | T | Novel | CAPN9 | SYNONYMOUS_CODING | |
| chr1 | 231047308 | 231047308 | Heterozygous | C | A | Novel | TTG13 | INTRONIC | </ |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr1 | 235490209 | 235490209 | Heterozygous | T | C | Novel | ARID4B | INTRONIC | |
| chr1 | 235490209 | 235490209 | Heterozygous | T | C | Novel | GGPS1 | UPSTREAM | |
| chr1 | 235490209 | 235490209 | Heterozygous | T | C | Novel | GGPS1 | UPSTREAM | |
| chr1 | 235490209 | 235490209 | Heterozygous | T | C | Novel | GGPS1 | UPSTREAM | |
| chr1 | 235918890 | 235918893 | Heterozygous | AAAG | | Novel | LYST | INTRONIC | |
| chr1 | 236711218 | 236711218 | Heterozygous | A | T | Novel | LGALS8 | INTRONIC | |
| chr1 | 236711218 | 236711218 | Heterozygous | A | T | Novel | LGALS8 | INTRONIC | |
| chr1 | 236711218 | 236711218 | Heterozygous | A | T | Novel | LGALS8 | INTRONIC | |
| chr1 | 236711218 | 236711218 | Heterozygous | A | T | Novel | LGALS8 | INTRONIC | |
| chr1 | 236711218 | 236711218 | Heterozygous | A | T | Novel | HEATR1 | DOWNSTREAM | |
| chr1 | 236716833 | 236716833 | Heterozygous | T | C | Novel | HEATR1 | INTRONIC | |
| chr1 | 237754389 | 237754389 | Heterozygous | T | C | Novel | RYP2 | INTRONIC | |
| chr1 | 237754403 | 237754403 | Heterozygous | T | C | Novel | RYP2 | INTRONIC | |
| chr1 | 240341403 | 240341403 | Heterozygous | A | G | Novel | FMN2 | INTRONIC | |
| chr1 | 240370985 | 240370985 | Heterozygous | C | T | Novel | FMN2 | NON_SYNONYMI_P->L | |
| chr1 | 240371028 | 240371028 | Heterozygous | A | G | Novel | FMN2 | SYNONYMOUS_CODING | |
| chr1 | 243335841 | 243335841 | Heterozygous | A | - | Novel | CEP170 | INTRONIC | |
| chr1 | 243335841 | 243335841 | Heterozygous | A | - | Novel | CEP170 | INTRONIC | |
| chr1 | 243335841 | 243335841 | Heterozygous | A | - | Novel | CEP170 | INTRONIC | |
| chr1 | 243738211 | 243738211 | Heterozygous | T | - | Novel | AKT3 | INTRONIC | |
| chr1 | 243738211 | 243738211 | Heterozygous | T | - | Novel | AKT3 | INTRONIC | |
| chr1 | 244848976 | 244848976 | Heterozygous | G | A | Novel | PPDPE1 | SPLICE_SITE | |
| chr1 | 245010043 | 245010044 | Heterozygous | - | A | Novel | FAM38A | DOWNSTREAM | |
| chr1 | 245010043 | 245010044 | Heterozygous | - | A | Novel | NCRNA00201 | EXONIC | |
| chr1 | 247587681 | 247587681 | Heterozygous | C | T | Novel | NLRP3 | SYNONYMOUS_CODING | |
| chr1 | 247587681 | 247587681 | Heterozygous | C | T | Novel | NLRP3 | SYNONYMOUS_CODING | |
| chr1 | 247587681 | 247587681 | Heterozygous | C | T | Novel | NLRP3 | SYNONYMOUS_CODING | |
| chr1 | 247587681 | 247587681 | Heterozygous | C | T | Novel | NLRP3 | SYNONYMOUS_CODING | |
| chr1 | 247587681 | 247587681 | Heterozygous | C | T | Novel | NLRP3 | SYNONYMOUS_CODING | |
| chr1 | 248085149 | 248085149 | Heterozygous | C | G | Novel | OR2T8 | EXONIC | |
| chr1 | 248247463 | 248247463 | Heterozygous | C | T | Novel | OR2L13 | INTRONIC | |
| chr2 | 271998 | 271999 | Heterozygous | - | A | Novel | ACP1 | INTRONIC | |
| chr2 | 271998 | 271999 | Heterozygous | - | A | Novel | ACP1 | INTRONIC | |
| chr2 | 271998 | 271999 | Heterozygous | - | A | Novel | ACP1 | INTRONIC | |
| chr2 | 271998 | 271999 | Heterozygous | - | A | Novel | ACP1 | INTRONIC | |
| chr2 | 905497 | 905497 | Heterozygous | C | T | Novel | ACPI | INTRONIC | |
| chr2 | 905581 | 905581 | Heterozygous | C | T | Novel | GENIC | | |
| chr2 | 1491511 | 1491511 | Heterozygous | A | - | Novel | TPO | INTRONIC | |
| chr2 | 1491511 | 1491511 | Heterozygous | A | - | Novel | TPO | INTRONIC | |
| chr2 | 1491511 | 1491511 | Heterozygous | A | - | Novel | TPO | INTRONIC | |
| chr2 | 1491511 | 1491511 | Heterozygous | A | - | Novel | TPO | INTRONIC | |
| chr2 | 1677512 | 1677512 | Heterozygous | T | C | Novel | PXDN | SYNONYMOUS_CODING | |
| chr2 | 3623444 | 3623444 | Heterozygous | C | T | Novel | RPS7 | NON_SYNONYMI_A->V | |
| chr2 | 7003721 | 7003721 | Heterozygous | C | T | Novel | CMPK2 | INTRONIC | |
| chr2 | 8910737 | 8910737 | Heterozygous | T | - | Novel | KIDINS220 | INTRONIC | |
| chr2 | 9885342 | 9885342 | Heterozygous | C | - | Novel | TAF1B | SPLICE_SITE | |
| chr2 | 9894508 | 9894508 | Heterozygous | A | G | Novel | TAF1B | SYNONYMOUS_CODING | |
| chr2 | 10717910 | 10717910 | Heterozygous | T | C | Novel | NOL10 | INTRONIC | |
| chr2 | 11728014 | 11728014 | Heterozygous | A | G | Novel | GREB1 | NON_SYNONYMI->R | |
| chr2 | 11728014 | 11728014 | Heterozygous | A | G | Novel | GREB1 | NON_SYNONYMI->R | |
| chr2 | 11728014 | 11728014 | Heterozygous | A | G | Novel | GREB1 | NON_SYNONYMI->R | |
| chr2 | 15319336 | 15319337 | Heterozygous | - | GT | Novel | NBAS | INTRONIC | |
| chr2 | 20818889 | 20818889 | Heterozygous | A | C | Novel | HS1BP3 | NON_SYNONYMI_V->G | |
| chr2 | 21252975 | 21252975 | Heterozygous | A | G | Novel | APOB | INTRONIC | |
| chr2 | 23698354 | 23698354 | Heterozygous | A | - | Novel | KLHL29 | INTRONIC | |
| chr2 | 24952713 | 24952713 | Heterozygous | T | - | Novel | NCOA1 | INTRONIC | |
| chr2 | 24952713 | 24952713 | Heterozygous | T | - | Novel | NCOA1 | INTRONIC | |
| chr2 | 24952713 | 24952713 | Heterozygous | T | - | Novel | NCOA1 | INTRONIC | |
| chr2 | 25022443 | 25022443 | Heterozygous | A | - | Novel | CENPO | INTRONIC | |
| chr2 | 25141218 | 25141218 | Heterozygous | C | A | Novel | ADCY3 | NON_SYNONYMI_Q->H | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 25754395 | 25754395 | Heterozygous | C | T | Novel | DTNB | SYNONYMOUS_CODING | |
| chr2 | 26507685 | 26507685 | Heterozygous | A | T | Novel | HADHB | INTRONIC | |
| chr2 | 26536026 | 26536026 | Heterozygous | G | A | Novel | GPR113 | INTRONIC | |
| chr2 | 26536026 | 26536026 | Heterozygous | G | A | Novel | GPR113 | INTRONIC | |
| chr2 | 26536026 | 26536026 | Heterozygous | G | A | Novel | GPR113 | INTRONIC | |
| chr2 | 26536026 | 26536026 | Heterozygous | G | A | Novel | GPR113 | INTRONIC | |
| chr2 | 26684679 | 26684679 | Heterozygous | G | A | Novel | OTOF | SYNONYMOUS_CODING | |
| chr2 | 26684679 | 26684679 | Heterozygous | G | A | Novel | OTOF | SYNONYMOUS_CODING | |
| chr2 | 26684679 | 26684679 | Heterozygous | G | A | Novel | OTOF | SYNONYMOUS_CODING | |
| chr2 | 26684679 | 26684679 | Heterozygous | G | A | Novel | OTOF | SYNONYMOUS_CODING | |
| chr2 | 26684679 | 26684679 | Heterozygous | G | A | Novel | OTOF | SYNONYMOUS_CODING | |
| chr2 | 27015141 | 27015142 | Heterozygous | - | C | Novel | CENPA | INTRONIC | |
| chr2 | 27015141 | 27015142 | Heterozygous | - | C | Novel | CENPA | INTRONIC | |
| chr2 | 27308050 | 27308050 | Heterozygous | G | A | Novel | EMILIN1 | SYNONYMOUS_CODING | |
| chr2 | 29355195 | 29355195 | Heterozygous | G | - | Novel | CLIP4 | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr2 | 29356469 | 29356470 | Heterozygous | - | TGGAA | Novel | CLIP4 | INTRONIC | |
| chr2 | 32666442 | 32666442 | Heterozygous | A | G | Novel | BIRC6 | NON_SYNONYMI_K->E | |
| chr2 | 32757201 | 32757201 | Heterozygous | C | T | Novel | BIRC6 | INTRONIC | |
| chr2 | 33518308 | 33518308 | Heterozygous | A | G | Novel | LTBP1 | NON_SYNONYMI_H->R | |
| chr2 | 33518308 | 33518308 | Heterozygous | A | G | Novel | LTBP1 | NON_SYNONYMI_H->R | |
| chr2 | 33518308 | 33518308 | Heterozygous | A | G | Novel | LTBP1 | NON_SYNONYMI_H->R | |
| chr2 | 33518308 | 33518308 | Heterozygous | A | G | Novel | LTBP1 | NON_SYNONYMI_H->R | |
| chr2 | 33518308 | 33518308 | Heterozygous | A | G | Novel | LTBP1 | NON_SYNONYMI_H->R | |
| chr2 | 33745110 | 33745110 | Heterozygous | G | A | Novel | RASGRP3 | INTRONIC | |
| chr2 | 33745110 | 33745110 | Heterozygous | G | A | Novel | RASGRP3 | INTRONIC | |
| chr2 | 33745110 | 33745110 | Heterozygous | G | A | Novel | RASGRP3 | INTRONIC | |
| chr2 | 33861708 | 33861708 | Heterozygous | G | A | Novel | GENIC | | |
| chr2 | 36994453 | 36994453 | Heterozygous | T | C | Novel | VIT | INTRONIC | |
| chr2 | 36994453 | 36994453 | Heterozygous | T | C | Novel | VIT | INTRONIC | |
| chr2 | 36994453 | 36994453 | Heterozygous | T | C | Novel | VIT | INTRONIC | |
| chr2 | 36994453 | 36994453 | Heterozygous | T | C | Novel | VIT | INTRONIC | |
| chr2 | 38527397 | 38527398 | Heterozygous | - | CT | Novel | ATL2 | INTRONIC | |
| chr2 | 38527397 | 38527398 | Heterozygous | - | CT | Novel | ATL2 | INTRONIC | |
| chr2 | 38527397 | 38527398 | Heterozygous | - | CT | Novel | ATL2 | INTRONIC | |
| chr2 | 38899221 | 38899221 | Heterozygous | T | C | Novel | HNRPLL | NON_SYNONYMI_Y->C | |
| chr2 | 38899221 | 38899221 | Heterozygous | T | C | Novel | HNRPLL | NON_SYNONYMI_Y->C | |
| chr2 | 38959112 | 38959112 | Heterozygous | A | C | Novel | GALM | INTRONIC | |
| chr2 | 38182870 | 38182870 | Heterozygous | A | G | Novel | ARHGAP33 | INTRONIC | |
| chr2 | 47233124 | 47233124 | Heterozygous | C | G | Novel | TTC7A | NON_SYNONYMI_Q->E | |
| chr2 | 48046013 | 48046013 | Heterozygous | A | - | Novel | FBXO11 | INTRONIC | |
| chr2 | 48046013 | 48046013 | Heterozygous | A | - | Novel | FBXO11 | INTRONIC | |
| chr2 | 54023248 | 54023248 | Heterozygous | T | - | Novel | ERLEC1 | INTRONIC | |
| chr2 | 54023248 | 54023248 | Heterozygous | T | - | Novel | ERLEC1 | INTRONIC | |
| chr2 | 54023248 | 54023248 | Heterozygous | T | - | Novel | ERLEC1 | INTRONIC | |
| chr2 | 54120745 | 54120745 | Heterozygous | G | C | Novel | PSME4 | INTRONIC | |
| chr2 | 54126897 | 54126897 | Heterozygous | G | A | Novel | PSME4 | INTRONIC | |
| chr2 | 55433513 | 55433514 | Heterozygous | - | T | Novel | C2orf63 | ESSENTIAL_SPLICE_SITE | |
| chr2 | 55433513 | 55433514 | Heterozygous | - | T | Novel | C2orf63 | ESSENTIAL_SPLICE_SITE | |
| chr2 | 55559652 | 55559652 | Heterozygous | - | A | Novel | CDDC88A | INTRONIC | |
| chr2 | 55559652 | 55559652 | Heterozygous | - | A | Novel | CDDC88A | INTRONIC | |
| chr2 | 55863360 | 55863361 | Heterozygous | - | A | Novel | PNPT1 | JPRIME UTR | |
| chr2 | 55864672 | 55864672 | Heterozygous | G | A | Novel | PNPT1 | INTRONIC | |
| chr2 | 61319728 | 61319729 | Heterozygous | - | T | Novel | KIAA1841 | SPLICE_SITE | |
| chr2 | 61319728 | 61319729 | Heterozygous | - | T | Novel | KIAA1841 | SPLICE_SITE | |
| chr2 | 61566824 | 61566824 | Heterozygous | T | C | Novel | USP34 | INTRONIC | |
| chr2 | 61822375 | 61822375 | Heterozygous | A | - | Novel | USP34 | SPLICE_SITE | |
| chr2 | 61715696 | 61715696 | Heterozygous | A | G | Novel | XPO1 | INTRONIC | |
| chr2 | 61720949 | 61720949 | Heterozygous | C | T | Novel | XPO1 | INTRONIC | |
| chr2 | 64139832 | 64139832 | Heterozygous | A | - | Novel | VP55A | INTRONIC | |
| chr2 | 64139832 | 64139832 | Heterozygous | A | - | Novel | VP55A | INTRONIC | |
| chr2 | 64210980 | 64210980 | Heterozygous | A | - | Novel | VP55A | INTRONIC | |
| chr2 | 64210980 | 64210980 | Heterozygous | A | - | Novel | VP55A | INTRONIC | |
| chr2 | 64318116 | 64318116 | Heterozygous | T | - | Novel | PELLI | INTRONIC | |
| chr2 | 70045902 | 70045902 | Heterozygous | A | T | Novel | ANXA4 | INTRONIC | |
| chr2 | 70186262 | 70186262 | Heterozygous | C | T | Novel | ASPRV1 | NON_SYNONYMI_V->I | |
| chr2 | 70457845 | 70457845 | Heterozygous | A | T | Novel | TIA1 | INTRONIC | |
| chr2 | 70457845 | 70457845 | Heterozygous | A | T | Novel | TIA1 | INTRONIC | |
| chr2 | 70463335 | 70463335 | Heterozygous | T | - | Novel | TIA1 | INTRONIC | |
| chr2 | 70463335 | 70463335 | Heterozygous | T | - | Novel | TIA1 | INTRONIC | |
| chr2 | 70502811 | 70502811 | Heterozygous | - | TCTG | Novel | PCYQX1 | INTRONIC | |
| chr2 | 71258775 | 71258775 | Heterozygous | G | A | Novel | QRT3P1 | EXONIC | |
| chr2 | 71360735 | 71360738 | Heterozygous | - | TCC | Novel | MPHOSPH10 | INTRONIC | |
| chr2 | 71801442 | 71801442 | Heterozygous | C | T | Novel | DYSF | NON_SYNONYMI_R->C | |
| chr2 | 71801442 | 71801442 | Heterozygous | C | T | Novel | DYSF | NON_SYNONYMI_R->C | |
| chr2 | 71801442 | 71801442 | Heterozygous | C | T | Novel | DYSF | NON_SYNONYMI_R->C | |
| chr2 | 71801442 | 71801442 | Heterozygous | C | T | Novel | DYSF | NON_SYNONYMI_R->C | |
| chr2 | 718 | | | | | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-----------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr2 | 74451947 | 74451947 | Heterozygous C | T | | Novel | SLC4A5 | INTRONIC | |
| chr2 | 74491243 | 74491243 | Heterozygous C | A | | Novel | SLC4A5 | INTRONIC | |
| chr2 | 74491243 | 74491243 | Heterozygous C | A | | Novel | SLC4A5 | INTRONIC | |
| chr2 | 74685880 | 74685880 | Heterozygous G | T | | Novel | IN080B | DOWNSTREAM | |
| chr2 | 74685880 | 74685880 | Heterozygous G | T | | Novel | WBP1 | INTRONIC | |
| chr2 | 74687268 | 74687268 | Heterozygous A | C | | Novel | WBP1 | INTRONIC | |
| chr2 | 74687268 | 74687268 | Heterozygous A | C | | Novel | MOGS | DOWNSTREAM | |
| chr2 | 74687268 | 74687268 | Heterozygous A | C | | Novel | MOGS | DOWNSTREAM | |
| chr2 | 74687270 | 74687270 | Heterozygous G | T | | Novel | WBP1 | INTRONIC | |
| chr2 | 74687270 | 74687270 | Heterozygous G | T | | Novel | MOGS | DOWNSTREAM | |
| chr2 | 74687270 | 74687270 | Heterozygous G | T | | Novel | MOGS | DOWNSTREAM | |
| chr2 | 75882133 | 75882133 | Heterozygous C | - | | Novel | MRPL19 | INTRONIC | |
| chr2 | 75899101 | 75899101 | Heterozygous T | C | | Novel | C2orf3 | NON_SYNONYI-E>G | |
| chr2 | 80772075 | 80772075 | Heterozygous C | T | | Novel | CTNNA2 | INTRONIC | |
| chr2 | 80772075 | 80772075 | Heterozygous C | T | | Novel | CTNNA2 | INTRONIC | |
| chr2 | 84755956 | 84755956 | Heterozygous T | A | | Novel | DNAH6 | INTRONIC | |
| chr2 | 84804548 | 84804548 | Heterozygous A | G | | Novel | DNAH6 | INTRONIC | |
| chr2 | 84945421 | 84945421 | Heterozygous C | T | | Novel | DNAH6 | SYNONYMOUS_CODING | |
| chr2 | 85571093 | 85571093 | Heterozygous G | A | | Novel | RETSAT | INTRONIC | |
| chr2 | 86107952 | 86107952 | Heterozygous A | - | | Novel | ST3GAL5 | INTRONIC | |
| chr2 | 86107952 | 86107952 | Heterozygous A | G | | Novel | ST3GAL5 | INTRONIC | |
| chr2 | 86343790 | 86343790 | Heterozygous T | C | | Novel | PTCD3 | INTRONIC | |
| chr2 | 86400745 | 86400745 | Homozygous T | G | | Novel | IMMT | INTRONIC | |
| chr2 | 86400745 | 86400745 | Homozygous T | G | | Novel | IMMT | INTRONIC | |
| chr2 | 86400745 | 86400745 | Homozygous T | G | | Novel | IMMT | INTRONIC | |
| chr2 | 89278103 | 89278103 | Homozygous T | C | | Novel | | GENIC | |
| chr2 | 89292401 | 89292401 | Homozygous T | C | | Novel | | GENIC | |
| chr2 | 90249415 | 90249415 | Heterozygous A | G | | Novel | | GENIC | |
| chr2 | 90249488 | 90249488 | Heterozygous C | T | | Novel | | GENIC | |
| chr2 | 90249478 | 90249478 | Heterozygous T | C | | Novel | | GENIC | |
| chr2 | 90249497 | 90249497 | Heterozygous T | A | | Novel | | GENIC | |
| chr2 | 90258888 | 90258888 | Heterozygous T | A | | Novel | | GENIC | |
| chr2 | 91872713 | 91872713 | Heterozygous T | C | | Novel | | GENIC | |
| chr2 | 91927382 | 91927382 | Heterozygous C | T | | Novel | | GENIC | |
| chr2 | 91935941 | 91935941 | Heterozygous G | T | | Novel | | GENIC | |
| chr2 | 92031302 | 92031302 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 92076693 | 92076693 | Heterozygous - | T | | Novel | | GENIC | |
| chr2 | 92102154 | 92102154 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 95513964 | 95513964 | Heterozygous T | C | | Novel | ANKRD20B | INTRONIC | |
| chr2 | 96574365 | 96574365 | Heterozygous T | C | | Novel | | GENIC | |
| chr2 | 96581651 | 96581652 | Heterozygous CC | -A | | Novel | | GENIC | |
| chr2 | 96589458 | 96589458 | Heterozygous A | G | | Novel | | GENIC | |
| chr2 | 96595093 | 96595093 | Heterozygous T | C | | Novel | | GENIC | |
| chr2 | 96607003 | 96607003 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 96607028 | 96607028 | Heterozygous T | C | | Novel | | GENIC | |
| chr2 | 96610811 | 96610811 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 96619799 | 96619799 | Heterozygous A | C | | Novel | | GENIC | |
| chr2 | 96920526 | 96920526 | Heterozygous C | G | | Novel | MEM127 | INTRONIC | |
| chr2 | 96920528 | 96920528 | Heterozygous C | G | | Novel | MEM127 | INTRONIC | |
| chr2 | 96943897 | 96943897 | Heterozygous C | G | | Novel | SNRNP200 | INTRONIC | |
| chr2 | 97855071 | 97855071 | Heterozygous G | T | | Novel | | GENIC | |
| chr2 | 97860529 | 97860529 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 97862600 | 97862600 | Heterozygous G | - | | Novel | | GENIC | |
| chr2 | 97869890 | 97869891 | Heterozygous - | T | | Novel | | GENIC | |
| chr2 | 97871680 | 97871680 | Heterozygous C | T | | Novel | | GENIC | |
| chr2 | 97877469 | 97877470 | Heterozygous TC | - | | Novel | | GENIC | |
| chr2 | 98165920 | 98165920 | Heterozygous A | G | | Novel | ANKRD36B | NON_SYNONYI-I>T | |
| chr2 | 98634597 | 98634597 | Heterozygous C | T | | Novel | TSGA10 | INTRONIC | |
| chr2 | 98634597 | 98634597 | Heterozygous C | T | | Novel | TSGA10 | INTRONIC | |
| chr2 | 101534247 | 101534247 | Heterozygous G | A | | Novel | NPAS2 | NON_SYNONYI-A->T | |
| chr2 | 101653872 | 101653872 | Heterozygous T | C | | Novel | TBC1D8 | INTRONIC | |
| chr2 | 102019083 | 102019083 | Heterozygous A | - | | Novel | RFK8 | NON_SYNONYI-G->S | |
| chr2 | 108999484 | 108999484 | Heterozygous A | - | | Novel | SULT1C4 | INTRONIC | |
| chr2 | 109123988 | 109123989 | Heterozygous - | T | | Novel | GC02 | INTRONIC | |
| chr2 | 109123988 | 109123989 | Heterozygous - | T | | Novel | GC02 | INTRONIC | |
| chr2 | 110049111 | 110049111 | Heterozygous G | C | | Novel | | GENIC | |
| chr2 | 113481267 | 113481267 | Heterozygous C | T | | Novel | | GENIC | |
| chr2 | 113950108 | 113950108 | Heterozygous C | T | | Novel | PSD4 | NON_SYNONYI-R>C | |
| chr2 | 114493510 | 114493510 | Heterozygous T | - | | Novel | SLC35F5 | INTRONIC | |
| chr2 | 114747596 | 114747596 | Heterozygous G | A | | Novel | LOC440900 | INTRONIC | |
| chr2 | 120076163 | 120076163 | Heterozygous C | T | | Novel | C2orf6 | INTRONIC | |
| chr2 | 120383293 | 120383294 | Heterozygous GC | AA | | Novel | | INTRONIC | |
| chr2 | 120404830 | 120404830 | Heterozygous T | - | | Novel | PCDP1 | SPICE_SITE | |
| chr2 | 121726411 | 121726411 | Heterozygous G | A | | Novel | GLJ2 | SYNONYMOUS_CODING | |
| chr2 | 121992899 | 121992899 | Heterozygous A | T | | Novel | TFCP2L1 | INTRONIC | |
| chr2 | 128324358 | 128324358 | Heterozygous C | T | | Novel | MYO7B | SYNONYMOUS_CODING | |
| chr2 | 128370111 | 128370111 | Heterozygous C | T | | Novel | MYO7B | NON_SYNONYI-R>W | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-----------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr2 | 128392285 | 128392285 | Heterozygous G | A | | Novel | MYO7B | INTRONIC | |
| chr2 | 128526579 | 128526580 | Heterozygous - | TAAA | | Novel | WDR33 | SPICE_SITE | |
| chr2 | 128526579 | 128526580 | Heterozygous - | TAAA | | Novel | WDR33 | SPICE_SITE | |
| chr2 | 128526579 | 128526580 | Heterozygous - | TAAA | | Novel | WDR33 | SPICE_SITE | |
| chr2 | 130900732 | 130900732 | Heterozygous A | G | | Novel | CCDC74B | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 130931283 | 130931283 | Heterozygous G | A | | Novel | SMPD4 | INTRONIC | |
| chr2 | 131414338 | 131414338 | Heterozygous G | A | | Novel | | GENIC | |
| chr2 | 132241548 | 132241548 | Heterozygous G | A | | Novel | TUBA3D | DOWNSTREAM | |
| chr2 | 132241548 | 132241548 | Heterozygous G | A | | Novel | MZT2A | SPRIME_UTR | |
| chr2 | 132367062 | 132367063 | Heterozygous - | T | | Novel | POTEKP | INTRONIC | |
| chr2 | 132558542 | 132558542 | Heterozygous C | T | | Novel | C2orf27B | SPRIME_UTR | |
| chr2 | 133066967 | 133066968 | Heterozygous - | GGT | | Novel | | GENIC | |
| chr2 | 133175168 | 133175168 | Heterozygous A | C | | Novel | GPR39 | NON_SYNONYI-S->R | |
| chr2 | 135215543 | 135215543 | Heterozygous C | T | | Novel | TMEM163 | INTRONIC | |
| chr2 | 136148395 | 136148396 | Heterozygous AA | - | | Novel | ZRAM3 | SPICE_SITE | |
| chr2 | 136567154 | 136567154 | Heterozygous C | T | | Novel | LCT | SYNONYMOUS_CODING | |
| chr2 | 149240658 | 149240658 | Heterozygous T | - | | Novel | | GENIC | |
| chr2 | 149528685 | 149528685 | Heterozygous T | G | | Novel | EPG2 | NON_SYNONYI-S->R | |
| chr2 | 152112190 | 152112190 | Heterozygous A | G | | Novel | RBM43 | NON_SYNONYI-V->A | |
| chr2 | 152318714 | 152318715 | Homozygous AT | - | | Novel | RIF1 | INTRONIC | |
| chr2 | 152318714 | 152318715 | Homozygous AT | - | | Novel | RIF1 | INTRONIC | |
| chr2 | 152318714 | 152318715 | Homozygous AT | - | | Novel | RIF1 | INTRONIC | |
| chr2 | 152318714 | 152318715 | Homozygous AT | - | | Novel | RIF1 | INTRONIC | |
| chr2 | 152318985 | 152318985 | Heterozygous G | A | | Novel | RIF1 | SPICE_SITE | |
| chr2 | 152318985 | 152318985 | Heterozygous G | A | | Novel | RIF1 | SPICE_SITE | |
| chr2 | 152318985 | 152318985 | Heterozygous G | A | | Novel | RIF1 | SPICE_SITE | |
| chr2 | 152318985 | 152318985 | Heterozygous G | A | | Novel | RIF1 | SPICE_SITE | |
| chr2 | 152388416 | 152388416 | Homozygous T | - | | Novel | NEB | SPICE_SITE | |
| chr2 | 152388416 | 152388416 | Homozygous T | - | | Novel | NEB | SPICE_SITE | |
| chr2 | 152388416 | 152388416 | Homozygous T | - | | Novel | NEB | SPICE_SITE | |
| chr2 | 152498988 | 152498988 | Heterozygous A | G | | Novel | NEB | INTRONIC | |
| chr2 | 152498988 | 152498988 | Heterozygous A | G | | Novel | NEB | INTRONIC | |
| chr2 | 152498988 | 152498988 | Heterozygous A | G | | Novel | NEB | INTRONIC | |
| chr2 | 152532022 | 152532022 | Heterozygous C | A | | Novel | NEB | INTRONIC | |
| chr2 | 152532022 | 152532022 | Heterozygous C | A | | Novel | NEB | INTRONIC | |
| chr2 | 152532022 | 152532022 | Heterozygous C | A | | Novel | NEB | INTRONIC | |
| chr2 | 152717360 | 152717360 | Heterozygous C | A | | Novel | CACNB4 | INTRONIC | |
| chr2 | 152717360 | 152717360 | Heterozygous C | A | | Novel | CACNB4 | INTRONIC | |
| chr2 | 152717360 | 152717360 | Heterozygous C | A | | Novel | CACNB4 | INTRONIC | |
| chr2 | 152717360 | 152717360 | Heterozygous C | A | | Novel | CACNB4 | INTRONIC | |
| chr2 | 158594852 | 158594852 | Heterozygous C | T | | Novel | ACVR1 | INTRONIC | |
| chr2 | 158594852 | 158594852 | Heterozygous C | T | | Novel | ACVR1 | INTRONIC | |
| chr2 | 159520015 | 159520016 | Heterozygous - | TT | | Novel | PKP4 | INTRONIC | |
| chr2 | 159520015 | 159520016 | Heterozygous - | TT | | Novel | PKP4 | INTRONIC | |
| chr2 | 160731896 | 160731896 | Heterozygous T | C | | Novel | PLA2R1 | INTRONIC | |
| chr2 | 160812399 | 160812399 | Heterozygous G | A | | Novel | PLA2R1 | INTRONIC | |
| chr2 | 160812399 | 160812399 | Heterozygous G | A | | Novel | PLA2R1 | INTRONIC | |
| chr2 | 160812399 | 160812399 | Heterozygous G | A | | Novel | PLA2R1 | INTRONIC | |
| chr2 | 160885358 | 160885358 | Heterozygous T | C | | Novel | PLA2R1 | SPICE_SITE | |
| chr2 | 160885358 | 160885358 | Heterozygous T | C | | Novel | PLA2R1 | SPICE_SITE | |
| chr2 | 160885358 | 160885358 | Heterozygous T | C | | Novel | PLA2R1 | SPICE_SITE | |
| chr2 | 160800318 | 160800318 | Heterozygous T | G | | Novel | SCN3A | NON_SYNONYI-R->S | |
| chr2 | 160800318 | 160800318 | Heterozygous T | G | | Novel | SCN3A | NON_SYNONYI-R->S | |
| chr2 | 160800318 | 160800318 | Heterozygous T | G | | Novel | SCN3A | NON_SYNONYI-R->S | |
| chr2 | 166166028 | 166166028 | Heterozygous T | G | | Novel | SCN2A | INTRONIC | |
| chr2 | 166166028 | 166166028 | Heterozygous T | G | | Novel | SCN2A | INTRONIC | |
| chr2 | 166166028 | 166166028 | Heterozygous T | G | | Novel | SCN2A | INTRONIC | |
| chr2 | 166606494 | 166606495 | Heterozygous AA | - | | Novel | GALNT3 | INTRONIC | |
| chr2 | 166747308 | 166747308 | Heterozygous A | G | | Novel | TTG21B | INTRONIC | |
| chr2 | 166758448 | 166758448 | Heterozygous A | - | | Novel | TTG21B | INTRONIC | |
| chr2 | 166905361 | | | | | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|------------------|-----------|----------|----------------------|-------------|--------------------|-------------------|
| chr2 | 189728070 | 189728072 | Heterozygous AAA | — | A | Novel | SPC25 | SPLICE_SITE | |
| chr2 | 170097960 | 170097960 | Heterozygous G | C | T | Novel | LRP2 | INTRONIC | |
| chr2 | 170344714 | 170344714 | Heterozygous A | T | C | Novel | BBS5 | INTRONIC | |
| chr2 | 173351878 | 173351878 | Heterozygous G | A | A | Novel | ITGA8 | INTRONIC | |
| chr2 | 173351878 | 173351878 | Heterozygous G | A | A | Novel | ITGA8 | INTRONIC | |
| chr2 | 173832212 | 173832212 | Heterozygous G | A | A | Novel | RAPGEF4 | INTRONIC | |
| chr2 | 173832212 | 173832212 | Heterozygous G | A | A | Novel | RAPGEF4 | INTRONIC | |
| chr2 | 179337629 | 179337629 | Heterozygous T | — | — | Novel | FKBP7 | INTRONIC | |
| chr2 | 179337629 | 179337629 | Heterozygous T | — | — | Novel | FKBP7 | INTRONIC | |
| chr2 | 179341914 | 179341914 | Heterozygous T | C | C | Novel | FKBP7 | NON_SYNONYMIK→R | |
| chr2 | 179341914 | 179341914 | Heterozygous T | C | C | Novel | FKBP7 | NON_SYNONYMIK→R | |
| chr2 | 179419223 | 179419223 | Heterozygous G | C | C | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179419223 | 179419223 | Heterozygous G | C | C | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179419223 | 179419223 | Heterozygous G | C | C | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179419223 | 179419223 | Heterozygous G | C | C | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179477333 | 179477333 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179477333 | 179477333 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179477333 | 179477333 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179477333 | 179477333 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179498153 | 179498153 | Heterozygous A | G | G | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179498153 | 179498153 | Heterozygous A | G | G | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179498153 | 179498153 | Heterozygous A | G | G | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179498153 | 179498153 | Heterozygous A | G | G | Novel | TTN | SYNONYMOUS_CODING | |
| chr2 | 179595578 | 179595578 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179595578 | 179595578 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179595578 | 179595578 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179595578 | 179595578 | Heterozygous T | — | — | Novel | TTN | INTRONIC | |
| chr2 | 179805005 | 179805005 | Heterozygous C | T | T | Novel | TTN | NON_SYNONYMI A→T | |
| chr2 | 179805005 | 179805005 | Heterozygous C | T | T | Novel | TTN | NON_SYNONYMI A→T | |
| chr2 | 179805005 | 179805005 | Heterozygous C | T | T | Novel | TTN | INTRONIC | |
| chr2 | 179805005 | 179805005 | Heterozygous C | T | T | Novel | TTN | NON_SYNONYMI A→T | |
| chr2 | 184025845 | 184025845 | Heterozygous A | G | G | Novel | NUP35 | NON_SYNONYMI M→V | |
| chr2 | 186878757 | 186878757 | Heterozygous G | A | A | Novel | — | GENIC | |
| chr2 | 187541681 | 187541683 | Heterozygous AAG | — | — | Novel | ITGAV | INTRONIC | |
| chr2 | 187541681 | 187541683 | Heterozygous AAG | — | — | Novel | ITGAV | INTRONIC | |
| chr2 | 187541681 | 187541683 | Heterozygous AAG | — | — | Novel | ITGAV | INTRONIC | |
| chr2 | 189859435 | 189859435 | Heterozygous T | — | — | Novel | COL3A1 | INTRONIC | |
| chr2 | 189862072 | 189862072 | Heterozygous A | T | T | Novel | COL5A2 | INTRONIC | |
| chr2 | 191161514 | 191161514 | Heterozygous T | C | C | Novel | HIBC8 | INTRONIC | |
| chr2 | 191161514 | 191161514 | Heterozygous T | C | C | Novel | HIBC8 | INTRONIC | |
| chr2 | 193058768 | 193058768 | Heterozygous — | A | A | Novel | TMEFF2 | INTRONIC | |
| chr2 | 197143140 | 197143140 | Heterozygous A | — | — | Novel | HECW2 | INTRONIC | |
| chr2 | 197654579 | 197654579 | Heterozygous A | — | — | Novel | GTF3C3 | INTRONIC | |
| chr2 | 197953376 | 197953376 | Heterozygous T | — | — | Novel | — | GENIC | |
| chr2 | 200790050 | 200790050 | Heterozygous A | G | G | Novel | C2orf89 | NON_SYNONYMI N→S | |
| chr2 | 202587706 | 202587707 | Heterozygous — | A | A | Novel | ALS2 | INTRONIC | |
| chr2 | 202964327 | 202964327 | Heterozygous G | A | A | Novel | — | GENIC | |
| chr2 | 203676632 | 203676632 | Heterozygous C | T | T | Novel | ICA1L | INTRONIC | |
| chr2 | 204304943 | 204304943 | Heterozygous G | A | A | Novel | RAPH1 | DOWNSTREAM | |
| chr2 | 204304943 | 204304943 | Heterozygous G | A | A | Novel | RAPH1 | SYNONYMOUS_CODING | |
| chr2 | 204594402 | 204594402 | Heterozygous C | A | A | Novel | CD28 | SYNONYMOUS_CODING | |
| chr2 | 207018261 | 207018261 | Heterozygous T | C | C | Novel | NDUFS1 | INTRONIC | |
| chr2 | 207161892 | 207161892 | Heterozygous G | T | T | Novel | ZDFB2 | INTRONIC | |
| chr2 | 208811700 | 208811700 | Heterozygous A | — | — | Novel | CNNYL1 | INTRONIC | |
| chr2 | 208811700 | 208811700 | Heterozygous A | — | — | Novel | CNNYL1 | INTRONIC | |
| chr2 | 208994151 | 208994151 | Heterozygous T | C | C | Novel | CRYGC | INTRONIC | |
| chr2 | 210884335 | 210884335 | Heterozygous G | T | T | Novel | RPE | INTRONIC | |
| chr2 | 210884335 | 210884335 | Heterozygous G | T | T | Novel | RPE | INTRONIC | |
| chr2 | 210884335 | 210884335 | Heterozygous G | T | T | Novel | RPE | INTRONIC | |
| chr2 | 211163064 | 211163065 | Heterozygous AC | — | — | Novel | C2orf67 | DOWNSTREAM | |
| chr2 | 211163064 | 211163065 | Heterozygous AC | — | — | Novel | MYL1 | INTRONIC | |
| chr2 | 211163064 | 211163065 | Heterozygous AC | — | — | Novel | MYL1 | INTRONIC | |
| chr2 | 212295590 | 212295591 | Heterozygous — | T | T | Novel | ERBB4 | INTRONIC | |
| chr2 | 212295590 | 212295591 | Heterozygous — | T | T | Novel | ERBB4 | INTRONIC | |
| chr2 | 215013820 | 215013820 | Heterozygous T | C | C | Novel | SPAG16 | INTRONIC | |
| chr2 | 215917212 | 215917212 | Heterozygous T | G | G | Novel | ABCA12 | NON_SYNONYMI K→T | |
| chr2 | 217012935 | 217012935 | Heterozygous C | G | G | Novel | XKRC5 | NON_SYNONYMI L→V | |
| chr2 | 218673230 | 218673231 | Heterozygous — | CA | CA | Novel | TNS1 | INTRONIC | |
| chr2 | 219127843 | 219127843 | Heterozygous G | A | A | Novel | GPBAR1 | STOP_GAINED W→Stop | |
| chr2 | 219127843 | 219127843 | Heterozygous G | A | A | Novel | GPBAR1 | STOP_GAINED W→Stop | |
| chr2 | 219127843 | 219127843 | Heterozygous G | A | A | Novel | GPBAR1 | STOP_GAINED W→Stop | |
| chr2 | 219127843 | 219127843 | Heterozygous G | A | A | Novel | AAMP | DOWNSTREAM | |
| chr2 | 219394628 | 219394629 | Heterozygous — | A | A | Novel | USP37 | INTRONIC | |
| chr2 | 219506741 | 219506741 | Heterozygous C | G | G | Novel | ZNF142 | INTRONIC | |
| chr2 | 219562743 | 219562743 | Heterozygous T | A | A | Novel | STK36 | INTRONIC | |
| chr2 | 219688347 | 219688347 | Heterozygous C | G | G | Novel | PRKAG3 | INTRONIC | |
| chr2 | 219688612 | 219688612 | Heterozygous G | A | A | Novel | PRKAG3 | INTRONIC | |
| chr2 | 220033661 | 220033661 | Heterozygous C | A | A | Novel | SLC23A3 | INTRONIC | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|------------------|-----------|----------|----------------------|-------------|--------------------|-------------------|
| chr2 | 220033661 | 220033661 | Heterozygous C | A | A | Novel | SLC23A3 | INTRONIC | |
| chr2 | 220033661 | 220033661 | Heterozygous C | A | A | Novel | SLC23A3 | INTRONIC | |
| chr2 | 220428179 | 220428180 | Heterozygous GC | AA | AA | Novel | OBSL1 | NON_SYNONYMI GP→GS | |
| chr2 | 220428179 | 220428180 | Heterozygous GC | AA | AA | Novel | OBSL1 | NON_SYNONYMI GP→GS | |
| chr2 | 220428179 | 220428180 | Heterozygous GC | AA | AA | Novel | OBSL1 | NON_SYNONYMI GP→GS | |
| chr2 | 225668719 | 225668719 | Heterozygous TG | — | — | Novel | DOCK10 | INTRONIC | |
| chr2 | 227966298 | 227966299 | Heterozygous — | A | A | Novel | COL4A4 | INTRONIC | |
| chr2 | 227967831 | 227967831 | Heterozygous A | — | — | Novel | COL4A4 | INTRONIC | |
| chr2 | 228102680 | 228102680 | Heterozygous C | T | T | Novel | COL4A3 | SPLICE_SITE | |
| chr2 | 228124680 | 228124680 | Heterozygous G | C | C | Novel | COL4A3 | INTRONIC | |
| chr2 | 228228494 | 228228494 | Heterozygous G | A | A | Novel | TMASF20 | SYNONYMOUS_CODING | |
| chr2 | 228356365 | 228356365 | Heterozygous T | — | — | Novel | AGF1 | INTRONIC | |
| chr2 | 228356365 | 228356365 | Heterozygous T | — | — | Novel | AGF1 | INTRONIC | |
| chr2 | 228356365 | 228356365 | Heterozygous T | — | — | Novel | AGF1 | INTRONIC | |
| chr2 | 228356365 | 228356365 | Heterozygous T | — | — | Novel | AGF1 | INTRONIC | |
| chr2 | 228680154 | 228680154 | Heterozygous T | — | — | Novel | COL20 | INTRONIC | |
| chr2 | 228680154 | 228680154 | Heterozygous T | — | — | Novel | COL20 | INTRONIC | |
| chr2 | 230914604 | 230914604 | Heterozygous C | A | A | Novel | SLC16A14 | NON_SYNONYMI L→F | |
| chr2 | 231405439 | 231405439 | Heterozygous C | A | A | Novel | SF100 | INTRONIC | |
| chr2 | 232135410 | 232135410 | Heterozygous A | G | G | Novel | ARM9 | INTRONIC | |
| chr2 | 233712225 | 233712226 | Heterozygous — | CG | CG | Novel | GIQYF2 | FRAMESHIFT_CODING | |
| chr2 | 233712225 | 233712226 | Heterozygous — | C- | C- | Novel | GIQYF2 | COMPLEX_VARIATION | |
| chr2 | 233712225 | 233712226 | Heterozygous — | CG | CG | Novel | GIQYF2 | FRAMESHIFT_CODING | |
| chr2 | 233712225 | 233712226 | Heterozygous — | C- | C- | Novel | GIQYF2 | COMPLEX_VARIATION | |
| chr2 | 233712225 | 233712226 | Heterozygous — | CG | CG | Novel | GIQYF2 | FRAMESHIFT_CODING | |
| chr2 | 233712225 | 233712226 | Heterozygous — | C- | C- | Novel | GIQYF2 | COMPLEX_VARIATION | |
| chr2 | 233712225 | 233712226 | Heterozygous — | CG | CG | Novel | GIQYF2 | FRAMESHIFT_CODING | |
| chr2 | 233712225 | 233712226 | Heterozygous — | C- | C- | Novel | GIQYF2 | COMPLEX_VARIATION | |
| chr2 | 234072626 | 234072626 | Homozygous T | C | C | Novel | — | GENIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A8 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A10 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A9 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A7 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A6 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A6 | INTRONIC | |
| chr2 | 234627431 | 234627431 | Heterozygous G | A | A | Novel | UGT1A5 | INTRONIC | |
| chr2 | 234740715 | 234740715 | Heterozygous C | T | T | Novel | UGT1A4 | UPSTREAM | |
| chr2 | 234916772 | 234916772 | Heterozygous T | — | — | Novel | TRPM8 | INTRONIC | |
| chr2 | 236706812 | 236706813 | Heterozygous — | T | T | Novel | AGAP1 | INTRONIC | |
| chr2 | 236706812 | 236706813 | Heterozygous — | T | T | Novel | AGAP1 | INTRONIC | |
| chr2 | 236708150 | 236708150 | Heterozygous G | A | A | Novel | AGAP1 | NON_SYNONYMI R→Q | |
| chr2 | 236708150 | 236708150 | Heterozygous G | A | A | Novel | AGAP1 | NON_SYNONYMI R→Q | |
| chr2 | 236708150 | 236708150 | Heterozygous G | A | A | Novel | AGAP1 | NON_SYNONYMI R→Q | |
| chr2 | 238285909 | 238285909 | Heterozygous G | A | A | Novel | COL6A3 | NON_SYNONYMI P→L | |
| chr2 | 238285909 | 238285909 | Heterozygous G | A | A | Novel | COL6A3 | NON_SYNONYMI P→L | |
| chr2 | 238285909 | 238285909 | Heterozygous G | A | A | Novel | COL6A3 | NON_SYNONYMI P→L | |
| chr2 | 238285909 | 238285909 | Heterozygous G | A | A | Novel | COL6A3 | NON_SYNONYMI P→L | |
| chr2 | 238457831 | 238457833 | Heterozygous TGA | — | — | Novel | MLPH | INTRONIC | |
| chr2 | 238457831 | 238457833 | Heterozygous TGA | — | — | Novel | MLPH | INTRONIC | |
| chr2 | 238500487 | 238500488 | Heterozygous — | A | A | Novel | RAB17 | UPSTREAM | |
| chr2 | 238500487 | 238500488 | Heterozygous — | A | A | Novel | RAB17 | UPSTREAM | |
| chr2 | 238558031 | 238558031 | Heterozygous A | — | — | Novel | LRRFIP1 | INTRONIC | |
| chr2 | 238558031 | 238558031 | Heterozygous A | — | — | Novel | LRRFIP1 | INTRONIC | |
| chr2 | 238558031 | 238558031 | Heterozygous A | — | — | Novel | LRRFIP1 | INTRONIC | |
| chr2 | 238558031 | 238558031 | Heterozygous A | — | — | Novel | LRRFIP1 | INTRONIC | |
| chr2 | 238672823 | 238672823 | Heterozygous G | A | A | Novel | LRRFIP1 | 3PRIME_UTR | |
| chr2 | 238672823 | 238672823 | Heterozygous G | A | A | Novel | LRRFIP1 | 3PRIME_UTR | |
| chr2 | 238672823 | 238672823 | Heterozygous G | A | A | Novel | | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | ΔSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------------|-----------|----------|---------------------|-------------|-------------------|-------------------|
| chr2 | 242694897 | 242694897 | Heterozygous G | C | T | Novel | D2HGDH | INTRONIC | |
| chr2 | 242756006 | 242756006 | Heterozygous G | C | T | Novel | NEU4 | INTRONIC | |
| chr2 | 242756006 | 242756006 | Heterozygous G | C | T | Novel | NEU4 | INTRONIC | |
| chr2 | 242756006 | 242756006 | Heterozygous G | C | T | Novel | NEU4 | INTRONIC | |
| chr2 | 243036991 | 243036992 | Heterozygous TT | — | — | Novel | LOC728323 | INTRONIC | |
| chr3 | 432911 | 432911 | Heterozygous C | A | Novel | CHL1 | INTRONIC | | |
| chr3 | 3085233 | 3085233 | Heterozygous G | A | Novel | CNTN4 | INTRONIC | | |
| chr3 | 3085233 | 3085233 | Heterozygous G | A | Novel | CNTN4 | INTRONIC | | |
| chr3 | 3085233 | 3085233 | Heterozygous G | A | Novel | CNTN4 | INTRONIC | | |
| chr3 | 4753377 | 4753377 | Homozygous T | C | C | Novel | ITPR1 | INTRONIC | |
| chr3 | 4753377 | 4753377 | Homozygous T | C | C | Novel | ITPR1 | INTRONIC | |
| chr3 | 4753377 | 4753377 | Homozygous T | C | C | Novel | ITPR1 | INTRONIC | |
| chr3 | 10088223 | 10088223 | Heterozygous T | G | G | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088223 | 10088223 | Heterozygous T | G | G | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088239 | 10088239 | Heterozygous G | A | A | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088239 | 10088239 | Heterozygous G | A | A | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088242 | 10088242 | Heterozygous G | A | A | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088242 | 10088242 | Heterozygous G | A | A | Novel | FANCD2 | INTRONIC | |
| chr3 | 10088404 | 10088404 | Heterozygous C | T | T | Novel | FANCD2 | SYNONYMOUS_CODING | |
| chr3 | 10088404 | 10088404 | Heterozygous C | T | T | Novel | FANCD2 | SYNONYMOUS_CODING | |
| chr3 | 10452493 | 10452493 | Homozygous G | A | A | Novel | ATP2B2 | NON_SYNONYMI_P>L | |
| chr3 | 10452493 | 10452493 | Homozygous G | A | A | Novel | ATP2B2 | NON_SYNONYMI_P>L | |
| chr3 | 10959387 | 10959387 | Homozygous C | T | T | Novel | SLC6A11 | INTRONIC | |
| chr3 | 11059035 | 11059035 | Homozygous G | A | A | Novel | SLC6A11 | SYNONYMOUS_CODING | |
| chr3 | 11374845 | 11374845 | Homozygous G | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 11374845 | 11374845 | Homozygous G | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 11374845 | 11374845 | Homozygous G | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 11551858 | 11551857 | Heterozygous - | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 11551858 | 11551857 | Heterozygous - | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 11551858 | 11551857 | Heterozygous - | A | A | Novel | ATG7 | INTRONIC | |
| chr3 | 14180860 | 14180860 | Homozygous C | T | T | Novel | TMEM43 | INTRONIC | |
| chr3 | 14183203 | 14183203 | Homozygous T | C | C | Novel | TMEM43 | NON_SYNONYMI_Y>H | |
| chr3 | 14548946 | 14548946 | Homozygous G | A | A | Novel | | GENIC | |
| chr3 | 16254129 | 16254129 | Homozygous C | A | A | Novel | GALNTL2 | NON_SYNONYMI_H>Q | |
| chr3 | 19594443 | 19594445 | Heterozygous AAG | --- | --- | Novel | KCNH8 | INTRONIC | |
| chr3 | 20156336 | 20156336 | Heterozygous T | - | - | Novel | KAT2B | INTRONIC | |
| chr3 | 23852857 | 23852857 | Heterozygous G | T | T | Novel | UBE2E1 | INTRONIC | |
| chr3 | 23852857 | 23852857 | Heterozygous G | T | T | Novel | UBE2E1 | INTRONIC | |
| chr3 | 27333013 | 27333013 | Heterozygous C | T | T | Novel | NEK10 | NON_SYNONYMI_A>T | |
| chr3 | 31659458 | 31659458 | Heterozygous T | G | G | Novel | STT3B | EXONIC | |
| chr3 | 31725673 | 31725673 | Heterozygous A | - | - | Novel | OSBPL10 | INTRONIC | |
| chr3 | 31725673 | 31725673 | Heterozygous A | - | - | Novel | OSBPL10 | INTRONIC | |
| chr3 | 32030580 | 32030580 | Heterozygous T | - | - | Novel | ZNF860 | FRAMESHIFT_CODING | |
| chr3 | 32233186 | 32233186 | Heterozygous A | - | - | Novel | | GENIC | |
| chr3 | 32995848 | 32995848 | Heterozygous C | T | T | Novel | CGR4 | NON_SYNONYMI_R>C | |
| chr3 | 38050159 | 38050159 | Heterozygous G | A | A | Novel | VILL | DOWNSTREAM | |
| chr3 | 38050159 | 38050159 | Heterozygous G | A | A | Novel | PLCD1 | INTRONIC | |
| chr3 | 38050159 | 38050159 | Heterozygous G | A | A | Novel | PLCD1 | INTRONIC | |
| chr3 | 38050159 | 38050159 | Heterozygous G | A | A | Novel | PLCD1 | INTRONIC | |
| chr3 | 38139241 | 38139241 | Heterozygous G | T | T | Novel | DLEC1 | NON_SYNONYMI_A>S | |
| chr3 | 38139241 | 38139241 | Heterozygous G | T | T | Novel | DLEC1 | NON_SYNONYMI_A>S | |
| chr3 | 38354854 | 38354857 | Heterozygous CTGA | ---- | ---- | Novel | SLC22A14 | INTRONIC | |
| chr3 | 38945566 | 38945566 | Heterozygous G | T | T | Novel | SCN11A | SYNONYMOUS_CODING | |
| chr3 | 38948848 | 38948848 | Homozygous T | C | C | Novel | SCN11A | INTRONIC | |
| chr3 | 40352356 | 40352357 | Heterozygous TT | -T | -T | Novel | E1F1B | INTRONIC | |
| chr3 | 40352356 | 40352357 | Heterozygous TT | - | - | Novel | E1F1B | INTRONIC | |
| chr3 | 40573556 | 40573556 | Heterozygous A | G | G | Novel | ZNF621 | NON_SYNONYMI>V | |
| chr3 | 40573556 | 40573556 | Heterozygous A | G | G | Novel | ZNF621 | NON_SYNONYMI>V | |
| chr3 | 41953112 | 41953112 | Heterozygous C | G | G | Novel | ULK4 | NON_SYNONYMI_K>N | |
| chr3 | 42265271 | 42265273 | Heterozygous CTC | --- | --- | Novel | TRAK1 | 3PRIME_UTR | |
| chr3 | 42265271 | 42265273 | Heterozygous CTC | --- | --- | Novel | TRAK1 | 3PRIME_UTR | |
| chr3 | 42680490 | 42680490 | Heterozygous T | CT- | CT- | Novel | NKTR | INTRONIC | |
| chr3 | 44332275 | 44332275 | Heterozygous G | A | A | Novel | C3orf77 | NON_SYNONYMI_G>R | |
| chr3 | 44373241 | 44373241 | Heterozygous C | G | G | Novel | C3orf77 | INTRONIC | |
| chr3 | 44621467 | 44621468 | Heterozygous - | G | G | Novel | ZNF167 | INTRONIC | |
| chr3 | 44761736 | 44761736 | Heterozygous C | T | T | Novel | ZNF502 | 3PRIME_UTR | |
| chr3 | 44761736 | 44761736 | Heterozygous C | T | T | Novel | ZNF502 | 3PRIME_UTR | |
| chr3 | 44761736 | 44761736 | Heterozygous C | T | T | Novel | ZNF502 | 3PRIME_UTR | |
| chr3 | 44761736 | 44761736 | Heterozygous C | T | T | Novel | ZNF502 | 3PRIME_UTR | |
| chr3 | 44826315 | 44826316 | Heterozygous - | Novel | Novel | Novel | KIF15 | INTRONIC | |
| chr3 | 44893895 | 44893895 | Heterozygous C | A | A | Novel | KIF15 | INTRONIC | |
| chr3 | 46713581 | 46713581 | Heterozygous A | G | G | Novel | ALS2CL | INTRONIC | |
| chr3 | 46713581 | 46713581 | Heterozygous A | G | G | Novel | ALS2CL | INTRONIC | |
| chr3 | 46713581 | 46713581 | Heterozygous A | G | G | Novel | ALS2CL | INTRONIC | |
| chr3 | 46713581 | 46713581 | Heterozygous A | G | G | Novel | ALS2CL | INTRONIC | |
| chr3 | 46784581 | 46784581 | Heterozygous G | A | A | Novel | PRSS45 | INTRONIC | |
| chr3 | 47455294 | 47455295 | Heterozygous ----- | GCCCC | Novel | Novel | PTPN23 | DOWNSTREAM | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | ΔSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|--------------------|-----------|----------|---------------------|-------------|-------------------|-------------------|
| chr3 | 47455294 | 47455295 | Heterozygous ----- | GCCCC | Novel | Novel | SCAP | 3PRIME_UTR | |
| chr3 | 47755844 | 47755844 | Heterozygous C | T | T | Novel | SMARCC1 | INTRONIC | |
| chr3 | 48218921 | 48218921 | Heterozygous C | T | T | Novel | CDC25A | SYNONYMOUS_CODING | |
| chr3 | 48218921 | 48218921 | Heterozygous C | T | T | Novel | CDC25A | SYNONYMOUS_CODING | |
| chr3 | 48685550 | 48685550 | Heterozygous C | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48685550 | 48685550 | Heterozygous C | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48685550 | 48685550 | Heterozygous C | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48685550 | 48685550 | Heterozygous C | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48689911 | 48689911 | Heterozygous C | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48689911 | 48689911 | Heterozygous G | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48689911 | 48689911 | Heterozygous G | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48689911 | 48689911 | Heterozygous G | A | A | Novel | SLC28A6 | INTRONIC | |
| chr3 | 48802398 | 48802398 | Heterozygous T | A | A | Novel | PRKAR2A | INTRONIC | |
| chr3 | 49298359 | 49298359 | Heterozygous C | - | - | Novel | | GENIC | |
| chr3 | 49354976 | 49354976 | Heterozygous T | - | - | Novel | USP4 | INTRONIC | |
| chr3 | 49354976 | 49354976 | Heterozygous T | - | - | Novel | USP4 | INTRONIC | |
| chr3 | 49456417 | 49456417 | Heterozygous G | A | A | Novel | AMT | SYNONYMOUS_CODING | |
| chr3 | 49456417 | 49456417 | Heterozygous G | A | A | Novel | AMT | EXONIC | |
| chr3 | 49456417 | 49456417 | Heterozygous G | A | A | Novel | AMT | SYNONYMOUS_CODING | |
| chr3 | 49456417 | 49456417 | Heterozygous G | A | A | Novel | AMT | SYNONYMOUS_CODING | |
| chr3 | 49456417 | 49456417 | Heterozygous G | A | A | Novel | AMT | SYNONYMOUS_CODING | |
| chr3 | 49946836 | 49946836 | Heterozygous G | A | A | Novel | AMT | SYNONYMOUS_CODING | |
| chr3 | 49946836 | 49946836 | Heterozygous G | A | A | Novel | MON1A | SPLICE_SITE | |
| chr3 | 50324405 | 50324405 | Heterozygous G | C | C | Novel | C3orf45 | INTRONIC | |
| chr3 | 50324405 | 50324405 | Heterozygous G | C | C | Novel | IFRD2 | DOWNSTREAM | |
| chr3 | 51268881 | 51268881 | Heterozygous A | - | - | Novel | DOCK3 | INTRONIC | |
| chr3 | 51429376 | 51429376 | Heterozygous G | T | T | Novel | RBM15B | SYNONYMOUS_CODING | |
| chr3 | 51457619 | 51457619 | Heterozygous G | A | A | Novel | VPRBP | SYNONYMOUS_CODING | |
| chr3 | 51457619 | 51457619 | Heterozygous G | A | A | Novel | VPRBP | SYNONYMOUS_CODING | |
| chr3 | 51458357 | 51458357 | Heterozygous C | T | T | Novel | VPRBP | SYNONYMOUS_CODING | |
| chr3 | 51458357 | 51458357 | Heterozygous C | T | T | Novel | VPRBP | SYNONYMOUS_CODING | |
| chr3 | 51679284 | 51679284 | Heterozygous C | G | G | Novel | RAD54L2 | INTRONIC | |
| chr3 | 51929361 | 51929361 | Heterozygous A | - | - | Novel | IQCF1 | INTRONIC | |
| chr3 | 52398873 | 52398873 | Heterozygous C | T | T | Novel | DNAH1 | NON_SYNONYMI_R>C | |
| chr3 | 52556632 | 52556632 | Heterozygous G | A | A | Novel | STAB1 | SYNONYMOUS_CODING | |
| chr3 | 52556632 | 52556632 | Heterozygous G | A | A | Novel | NTSDC2 | DOWNSTREAM | |
| chr3 | 52556632 | 52556632 | Heterozygous G | A | A | Novel | NTSDC2 | DOWNSTREAM | |
| chr3 | 53223270 | 53223270 | Heterozygous C | T | T | Novel | PRKCD | SPLICE_SITE | |
| chr3 | 53223270 | 53223270 | Heterozygous C | T | T | Novel | PRKCD | SPLICE_SITE | |
| chr3 | 53685000 | 53685001 | Heterozygous - | G | G | Novel | CACNA1D | INTRONIC | |
| chr3 | 53685000 | 53685001 | Heterozygous - | G | G | Novel | CACNA1D | INTRONIC | |
| chr3 | 53685000 | 53685001 | Heterozygous - | G | G | Novel | CACNA1D | INTRONIC | |
| chr3 | 53752295 | 53752295 | Heterozygous G | A | A | Novel | CACNA1D | INTRONIC | |
| chr3 | 53752295 | 53752295 | Heterozygous G | A | A | Novel | CACNA1D | INTRONIC | |
| chr3 | 53752295 | 53752295 | Heterozygous G | A | A | Novel | CACNA1D | INTRONIC | |
| chr3 | 55733265 | 55733265 | Heterozygous A | G | G | Novel | CACNA1D | INTRONIC | |
| chr3 | 56173467 | 56173467 | Heterozygous G | A | A | Novel | ERC2 | INTRONIC | |
| chr3 | 58296210 | 58296210 | Heterozygous T | - | - | Novel | RPP14 | INTRONIC | |
| chr3 | 58296210 | 58296210 | Heterozygous T | - | - | Novel | RPP14 | INTRONIC | |
| chr3 | 58410747 | 58410747 | Heterozygous C | G | G | Novel | PXK | 3PRIME_UTR | |
| chr3 | 63600785 | 63600785 | Heterozygous A | T | T | Novel | SYNPR | INTRONIC | |
| chr3 | 63600785 | 63600785 | Heterozygous A | T | T | Novel | SYNPR | INTRONIC | |
| chr3 | 64536461 | 64536461 | Heterozygous G | A | A | Novel | ADAMTS9 | INTRONIC | |
| chr3 | 67548727 | 67548729 | Heterozygous AAG | --- | --- | Novel | SUCLG2 | SPLICE_SITE | |
| chr3 | 67548727 | 67548729 | Heterozygous AAG | AA- | AA- | Novel | SUCLG2 | SPLICE_SITE | |
| chr3 | 69088918 | 69088919 | Heterozygous - | C | C | Novel | TFP1 | INTRONIC | |
| chr3 | 71008341 | 71008342 | Heterozygous - | T | T | Novel | FOX P1 | 3PRIME_UTR | |
| chr3 | 71102906 | 71102906 | Heterozygous T | C | C | Novel | FOX P1 | NON_SYNONYMI_V | |
| chr3 | 75397884 | 75397884 | Heterozygous C | T | T | Novel | | GENIC | |
| chr3 | 75476956 | 75476956 | Heterozygous G | A | A | Novel | FAM86DP | EXONIC | |
| chr3 | 77645947 | 77645947 | Heterozygous T | - | - | Novel | ROBO2 | INTRONIC | |
| chr3 | 77645947 | 77645947 | Heterozygous T | - | - | Novel | ROBO2 | INTRONIC | |
| chr3 | 78663772 | 78663772 | Heterozygous G | A | A | Novel | ROBO1 | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr3 | 101575878 | 101575878 | Heterozygous | T | - | Novel | NFKBIZ | INTRONIC | |
| chr3 | 101575878 | 101575878 | Heterozygous | T | - | Novel | NFKBIZ | INTRONIC | |
| chr3 | 107769592 | 107769592 | Heterozygous | G | A | Novel | CD47 | INTRONIC | |
| chr3 | 107769592 | 107769592 | Heterozygous | G | A | Novel | CD47 | INTRONIC | |
| chr3 | 108224685 | 108224685 | Heterozygous | C | A | Novel | MYH15 | INTRONIC | |
| chr3 | 108229437 | 108229438 | Heterozygous | - | A | Novel | MYH15 | SPLICE_SITE | |
| chr3 | 111983009 | 111983009 | Homozygous | A | G | Novel | SLC9A10 | INTRONIC | |
| chr3 | 112253193 | 112253194 | Heterozygous | C | AA | Novel | ATG3 | INTRONIC | |
| chr3 | 112253193 | 112253194 | Heterozygous | C | AA | Novel | ATG3 | INTRONIC | |
| chr3 | 112719791 | 112719791 | Heterozygous | C | A | Novel | GTPBP8 | 3PRIME_UTR | |
| chr3 | 112719791 | 112719791 | Heterozygous | C | A | Novel | GTPBP8 | 3PRIME_UTR | |
| chr3 | 112719791 | 112719791 | Heterozygous | C | A | Novel | C3orf17 | DOWNSTREAM | |
| chr3 | 112719791 | 112719791 | Heterozygous | C | A | Novel | C3orf17 | DOWNSTREAM | |
| chr3 | 113126005 | 113126008 | Heterozygous | ATTT | --- | Novel | WDR52 | INTRONIC | |
| chr3 | 113145206 | 113145206 | Heterozygous | A | G | Novel | WDR52 | INTRONIC | |
| chr3 | 113164080 | 113164080 | Heterozygous | A | G | Novel | SPICE1 | 3PRIME_UTR | |
| chr3 | 113166847 | 113166847 | Heterozygous | A | T | Novel | SPICE1 | INTRONIC | |
| chr3 | 113285185 | 113285189 | Heterozygous | TTGTG | GTTTG | Novel | SIDT1 | INTRONIC | |
| chr3 | 113285185 | 113285189 | Heterozygous | TTGTG | T---TG | Novel | SIDT1 | INTRONIC | |
| chr3 | 113285185 | 113285189 | Heterozygous | TTGTG | T--- | Novel | SIDT1 | INTRONIC | |
| chr3 | 113338687 | 113338687 | Heterozygous | G | T | Novel | SIDT1 | INTRONIC | |
| chr3 | 113499806 | 113499806 | Heterozygous | A | G | Novel | ATP8V1A | INTRONIC | |
| chr3 | 113507749 | 113507749 | Heterozygous | C | G | Novel | ATP8V1A | INTRONIC | |
| chr3 | 113508563 | 113508563 | Heterozygous | T | C | Novel | ATP8V1A | INTRONIC | |
| chr3 | 113517029 | 113517029 | Heterozygous | T | - | Novel | ATP8V1A | INTRONIC | |
| chr3 | 113737698 | 113737698 | Heterozygous | G | A | Novel | KIAA1407 | SYNONYMOUS_CODING | |
| chr3 | 118824042 | 118824043 | Heterozygous | --- | TTC | Novel | IGSF11 | 5PRIME_UTR | |
| chr3 | 119121264 | 119121265 | Heterozygous | --- | AGG | Novel | ARHGAP31 | INTRONIC | |
| chr3 | 119134577 | 119134577 | Heterozygous | C | T | Novel | ARHGAP31 | SYNONYMOUS_CODING | |
| chr3 | 121366101 | 121366101 | Heterozygous | T | C | Novel | HCL51 | INTRONIC | |
| chr3 | 121396049 | 121396050 | Heterozygous | - | A | Novel | GOLGB1 | INTRONIC | |
| chr3 | 121500480 | 121500481 | Heterozygous | AC | --- | Novel | IQCB1 | INTRONIC | |
| chr3 | 121500480 | 121500481 | Heterozygous | AC | --- | Novel | IQCB1 | INTRONIC | |
| chr3 | 121514459 | 121514459 | Heterozygous | A | - | Novel | IQCB1 | INTRONIC | |
| chr3 | 121514459 | 121514459 | Heterozygous | A | - | Novel | IQCB1 | INTRONIC | |
| chr3 | 121713035 | 121713035 | Heterozygous | G | A | Novel | ILDR1 | INTRONIC | |
| chr3 | 122471407 | 122471408 | Heterozygous | -A | AA | Novel | HSPBAP1 | INTRONIC | |
| chr3 | 122869205 | 122869205 | Heterozygous | G | A | Novel | PDI5 | NON_SYNONYMI->T | |
| chr3 | 122869205 | 122869205 | Heterozygous | G | A | Novel | PDI5 | EXONIC | |
| chr3 | 124117414 | 124117414 | Heterozygous | A | C | Novel | KALRN | INTRONIC | |
| chr3 | 124117414 | 124117414 | Heterozygous | A | C | Novel | KALRN | INTRONIC | |
| chr3 | 124129041 | 124129041 | Heterozygous | C | G | Novel | KALRN | INTRONIC | |
| chr3 | 124129041 | 124129041 | Heterozygous | A | G | Novel | KALRN | INTRONIC | |
| chr3 | 124160880 | 124160880 | Heterozygous | A | - | Novel | KALRN | INTRONIC | |
| chr3 | 124160880 | 124160880 | Heterozygous | A | - | Novel | KALRN | INTRONIC | |
| chr3 | 124731991 | 124731991 | Heterozygous | G | A | Novel | HEG1 | NON_SYNONYMI->I | |
| chr3 | 124739788 | 124739788 | Heterozygous | G | A | Novel | HEG1 | NON_SYNONYMI->M | |
| chr3 | 124951172 | 124951172 | Heterozygous | T | - | Novel | ZNF148 | 3PRIME_UTR | |
| chr3 | 125172825 | 125172825 | Heterozygous | T | G | Novel | SNX4 | INTRONIC | |
| chr3 | 125856688 | 125856688 | Heterozygous | C | G | Novel | ALDH1L1 | NON_SYNONYMI->H | |
| chr3 | 127399700 | 127399700 | Heterozygous | A | G | Novel | ABTB1 | 3PRIME_UTR | |
| chr3 | 127399700 | 127399700 | Heterozygous | A | G | Novel | ABTB1 | EXONIC | |
| chr3 | 127399700 | 127399700 | Heterozygous | A | G | Novel | ABTB1 | EXONIC | |
| chr3 | 127649129 | 127649131 | Heterozygous | AAG | --- | Novel | KBTD12 | SPLICE_SITE | |
| chr3 | 128859164 | 128859164 | Heterozygous | T | A | Novel | ISY1 | INTRONIC | |
| chr3 | 128996000 | 128996000 | Heterozygous | C | T | Novel | COPG | INTRONIC | |
| chr3 | 128996000 | 128996000 | Heterozygous | C | T | Novel | C3orf37 | UPSTREAM | |
| chr3 | 128996000 | 128996000 | Heterozygous | C | T | Novel | C3orf37 | UPSTREAM | |
| chr3 | 129112016 | 129112016 | Heterozygous | G | C | Novel | RP_L32P3 | INTRONIC | |
| chr3 | 129121514 | 129121514 | Heterozygous | C | T | Novel | C3orf25 | INTRONIC | |
| chr3 | 129177447 | 129177447 | Heterozygous | C | A | Novel | IFT122 | NON_SYNONYMI->S | |
| chr3 | 129177447 | 129177447 | Heterozygous | C | A | Novel | IFT122 | INTRONIC | |
| chr3 | 129177447 | 129177447 | Heterozygous | C | A | Novel | IFT122 | NON_SYNONYMI->S | |
| chr3 | 129177447 | 129177447 | Heterozygous | C | A | Novel | IFT122 | NON_SYNONYMI->S | |
| chr3 | 129179694 | 129179694 | Heterozygous | C | T | Novel | IFT122 | INTRONIC | |
| chr3 | 129179694 | 129179694 | Heterozygous | C | T | Novel | IFT122 | INTRONIC | |
| chr3 | 129179694 | 129179694 | Heterozygous | C | T | Novel | IFT122 | SPLICE_SITE | |
| chr3 | 129179694 | 129179694 | Heterozygous | C | T | Novel | IFT122 | INTRONIC | |
| chr3 | 129236523 | 129236523 | Heterozygous | G | C | Novel | IFT122 | INTRONIC | |
| chr3 | 129236523 | 129236523 | Heterozygous | G | C | Novel | IFT122 | INTRONIC | |
| chr3 | 129236523 | 129236523 | Heterozygous | G | C | Novel | IFT122 | INTRONIC | |
| chr3 | 129236523 | 129236523 | Heterozygous | G | C | Novel | IFT122 | INTRONIC | |
| chr3 | 129238472 | 129238472 | Heterozygous | G | A | Novel | IFT122 | NON_SYNONYMI->H | |
| chr3 | 129238472 | 129238472 | Heterozygous | G | A | Novel | IFT122 | NON_SYNONYMI->H | |
| chr3 | 129238472 | 129238472 | Heterozygous | G | A | Novel | IFT122 | NON_SYNONYMI->H | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr3 | 130174543 | 130174544 | Heterozygous | TAAA | --- | Novel | COL6A5 | INTRONIC | |
| chr3 | 130174543 | 130174544 | Heterozygous | TAAA | --- | Novel | COL6A5 | INTRONIC | |
| chr3 | 130361926 | 130361926 | Heterozygous | A | C | Novel | COL6A6 | INTRONIC | |
| chr3 | 130447531 | 130447531 | Heterozygous | A | - | Novel | PIK3R4 | SPLICE_SITE | |
| chr3 | 130734887 | 130734888 | Heterozygous | - | T | Novel | ATP2C1 | INTRONIC | |
| chr3 | 130734887 | 130734888 | Heterozygous | - | T | Novel | ATP2C1 | INTRONIC | |
| chr3 | 130734887 | 130734888 | Heterozygous | - | T | Novel | ATP2C1 | INTRONIC | |
| chr3 | 130734887 | 130734888 | Heterozygous | - | T | Novel | ASTE1 | INTRONIC | |
| chr3 | 130992284 | 130992284 | Heterozygous | C | T | Novel | NEK11 | INTRONIC | |
| chr3 | 130992284 | 130992284 | Heterozygous | C | T | Novel | NEK11 | INTRONIC | |
| chr3 | 132179073 | 132179073 | Heterozygous | T | - | Novel | DNAJC13 | INTRONIC | |
| chr3 | 132438748 | 132438749 | Heterozygous | AT | --- | Novel | NHPH3 | INTRONIC | |
| chr3 | 133087475 | 133087476 | Heterozygous | --- | CA | Novel | TMEM108 | INTRONIC | |
| chr3 | 133087475 | 133087476 | Heterozygous | --- | CA | Novel | TMEM108 | INTRONIC | |
| chr3 | 133356953 | 133356953 | Heterozygous | C | T | Novel | TOPBP1 | NON_SYNONYMI->T | |
| chr3 | 133356957 | 133356957 | Heterozygous | T | G | Novel | TOPBP1 | NON_SYNONYMI->F | |
| chr3 | 133654635 | 133654635 | Heterozygous | G | A | Novel | SLCO2A1 | SYNONYMOUS_CODING | |
| chr3 | 135742057 | 135742058 | Heterozygous | --- | TGTTT | Novel | PPP2R3A | INTRONIC | |
| chr3 | 135742057 | 135742058 | Heterozygous | --- | TGTTT | Novel | PPP2R3A | INTRONIC | |
| chr3 | 135742057 | 135742058 | Heterozygous | --- | TGTTT | Novel | PPP2R3A | INTRONIC | |
| chr3 | 136117509 | 136117509 | Heterozygous | C | T | Novel | STAG1 | INTRONIC | |
| chr3 | 137881014 | 137881014 | Heterozygous | A | - | Novel | DBR1 | NON_SYNONYMI->L | |
| chr3 | 138400783 | 138400783 | Heterozygous | A | - | Novel | PIK3CB | INTRONIC | |
| chr3 | 139257546 | 139257546 | Heterozygous | C | - | Novel | RBP1 | INTRONIC | |
| chr3 | 139257546 | 139257546 | Heterozygous | C | - | Novel | RBP1 | INTRONIC | |
| chr3 | 139257546 | 139257546 | Heterozygous | C | - | Novel | RBP1 | INTRONIC | |
| chr3 | 139894944 | 139894944 | Heterozygous | C | T | Novel | CLSTN2 | INTRONIC | |
| chr3 | 141595595 | 141595595 | Heterozygous | C | T | Novel | ATP1B3 | 3PRIME_UTR | |
| chr3 | 142275179 | 142275179 | Heterozygous | T | G | Novel | ATR | INTRONIC | |
| chr3 | 142277369 | 142277369 | Heterozygous | T | - | Novel | ATR | INTRONIC | |
| chr3 | 146167089 | 146167089 | Heterozygous | T | A | Novel | PLSCR2 | NON_SYNONYMI->S | |
| chr3 | 147108757 | 147108757 | Heterozygous | G | A | Novel | ZIC4 | NON_SYNONYMI->L | |
| chr3 | 147108757 | 147108757 | Heterozygous | G | A | Novel | ZIC4 | EXONIC | |
| chr3 | 147108757 | 147108757 | Heterozygous | G | A | Novel | ZIC4 | EXONIC | |
| chr3 | 147108757 | 147108757 | Heterozygous | G | A | Novel | ZIC4 | NON_SYNONYMI->L | |
| chr3 | 147108757 | 147108757 | Heterozygous | G | A | Novel | ZIC4 | NON_SYNONYMI->L | |
| chr3 | 147120656 | 147120656 | Heterozygous | G | C | Novel | ZIC4 | INTRONIC | |
| chr3 | 147120656 | 147120656 | Heterozygous | G | C | Novel | ZIC4 | INTRONIC | |
| chr3 | 147120656 | 147120656 | Heterozygous | G | C | Novel | ZIC4 | INTRONIC | |
| chr3 | 148888293 | 148888293 | Heterozygous | C | - | Novel | HPS3 | INTRONIC | |
| chr3 | 148888293 | 148888293 | Heterozygous | C | - | Novel | HPS3 | NON_SYNONYMI->L | |
| chr3 | 148884953 | 148884953 | Heterozygous | A | C | Novel | HPS3 | INTRONIC | |
| chr3 | 149050882 | 149050882 | Heterozygous | C | T | Novel | GENIC | | |
| chr3 | 150645752 | 150645752 | Heterozygous | T | C | Novel | CLRN1 | NON_SYNONYMI->A | |
| chr3 | 150645752 | 150645752 | Heterozygous | T | C | Novel | CLRN1 | INTRONIC | |
| chr3 | 150908881 | 150908881 | Heterozygous | A | G | Novel | MED12L | NON_SYNONYMI->G | |
| chr3 | 154001102 | 154001102 | Heterozygous | A | C | Novel | DXH36 | INTRONIC | |
| chr3 | 154001102 | 154001102 | Heterozygous | A | C | Novel | DXH36 | INTRONIC | |
| chr3 | 154145230 | 154145231 | Heterozygous | - | T | Novel | GPR149 | INTRONIC | |
| chr3 | 155198868 | 155198868 | Heterozygous | G | A | Novel | PLCH1 | NON_SYNONYMI->M | |
| chr3 | 155198868 | 155198868 | Heterozygous | G | A | Novel | PLCH1 | 3PRIME_UTR | |
| chr3 | 155198868 | 155198868 | Heterozygous | G | A | Novel | PLCH1 | NON_SYNONYMI->M | |
| chr3 | 155551510 | 155551510 | Heterozygous | A | T | Novel | SLC33A1 | INTRONIC | |
| chr3 | 155551510 | 155551510 | Heterozygous | A | T | Novel | SLC33A1 | INTRONIC | |
| chr3 | 155551510 | 155551510 | Heterozygous | A | T | Novel | SLC33A1 | INTRONIC | |
| chr3 | 156254379 | 156254379 | Heterozygous | - | T | Novel | QMP5 | INTRONIC | |
| chr3 | 156254379 | 156254379 | Heterozygous | T | C | Novel | KCNAB1 | INTRONIC | |
| chr3 | 156254379 | 156254379 | Heterozygous | T | C | Novel | KCNAB1 | INTRONIC | |
| chr3 | 156254379 | 156254379 | Heterozygous | T | C | Novel | KCNAB1 | INTRONIC | |
| chr3 | 157082077 | 157082077 | Heterozygous | C | A | Novel | VEPH1 | INTRONIC | |
| chr3 | 157082077 | 157082077 | Heterozygous | C | A | Novel | VEPH1 | INTRONIC | |
| chr3 | 157082077 | 157082077 | Heterozygous | C | A | Novel | VEPH1 | INTRONIC | |
| chr3 | 158369845 | 158369845 | Heterozygous | G | A | Novel | | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|------------------|-----------|----------|----------------------|----------------------|-------------|-------------------|
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 170857183 | 170857183 | Heterozygous A | G | Novel | TNIK | INTRONIC | | |
| chr3 | 172046695 | 172046696 | Heterozygous - | T | Novel | FND3C3B | INTRONIC | | |
| chr3 | 172046695 | 172046696 | Heterozygous - | T | Novel | FND3C3B | INTRONIC | | |
| chr3 | 172634022 | 172634022 | Heterozygous T | - | Novel | SPATA16 | INTRONIC | | |
| chr3 | 175181305 | 175181305 | Heterozygous A | C | Novel | NAALADL2 | INTRONIC | | |
| chr3 | 178543535 | 178543535 | Heterozygous A | G | Novel | KCNMB2 | SYNONYMOUS_CODING | | |
| chr3 | 178543535 | 178543535 | Heterozygous A | G | Novel | KCNMB2 | SYNONYMOUS_CODING | | |
| chr3 | 179437788 | 179437788 | Heterozygous C | T | Novel | USP13 | NON_SYNONYMI A->V | | |
| chr3 | 179525344 | 179525344 | Heterozygous C | T | Novel | PEX5L | INTRONIC | | |
| chr3 | 179525344 | 179525344 | Heterozygous C | T | Novel | PEX5L | INTRONIC | | |
| chr3 | 179754358 | 179754358 | Heterozygous C | C | Novel | PEX5L | INTRONIC | | |
| chr3 | 183778083 | 183778083 | Heterozygous C | G | Novel | HTR3G | SYNONYMOUS_CODING | | |
| chr3 | 183823863 | 183823864 | Heterozygous C | AAGA | Novel | HTR3E | INTRONIC | | |
| chr3 | 184063386 | 184063386 | Heterozygous C | T | Novel | CLGN2 | DOWNSTREAM | | |
| chr3 | 184063386 | 184063386 | Heterozygous C | T | Novel | CLGN2 | DOWNSTREAM | | |
| chr3 | 184063386 | 184063386 | Heterozygous C | T | Novel | CLGN2 | DOWNSTREAM | | |
| chr3 | 184063386 | 184063386 | Heterozygous C | T | Novel | CLGN2 | DOWNSTREAM | | |
| chr3 | 184429133 | 184429134 | Heterozygous - | TCC | Novel | MAGEF1 | NON_SYNONYMOUS_CODIN | | |
| chr3 | 184552422 | 184552423 | Heterozygous - | T | Novel | VPS8 | INTRONIC | | |
| chr3 | 184552422 | 184552423 | Heterozygous - | T | Novel | VPS8 | INTRONIC | | |
| chr3 | 184689600 | 184689600 | Heterozygous C | T | Novel | VPS8 | INTRONIC | | |
| chr3 | 184689600 | 184689600 | Heterozygous C | T | Novel | VPS8 | INTRONIC | | |
| chr3 | 185135385 | 185135387 | Heterozygous CTT | - | Novel | MAP3K13 | INTRONIC | | |
| chr3 | 185335163 | 185335163 | Heterozygous T | - | Novel | SNP2 | INTRONIC | | |
| chr3 | 186522294 | 186522294 | Heterozygous A | - | Novel | RFC4 | INTRONIC | | |
| chr3 | 186522294 | 186522294 | Heterozygous A | - | Novel | RFC4 | INTRONIC | | |
| chr3 | 186572249 | 186572249 | Heterozygous T | C | Novel | ADIPOQ | NON_SYNONYMI->T | | |
| chr3 | 186572249 | 186572249 | Heterozygous T | C | Novel | ADIPOQ | NON_SYNONYMI->T | | |
| chr3 | 186917405 | 186917405 | Heterozygous C | A | Novel | RTP1 | NON_SYNONYMI F->L | | |
| chr3 | 188326926 | 188326927 | Heterozygous - | T | Novel | LPP | INTRONIC | | |
| chr3 | 188326926 | 188326927 | Heterozygous - | T | Novel | LPP | INTRONIC | | |
| chr3 | 188937308 | 188937309 | Heterozygous AA | - | Novel | TPRG1 | INTRONIC | | |
| chr3 | 188937308 | 188937309 | Heterozygous AA | -A | Novel | TPRG1 | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1RAP | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1RAP | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1FAP | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1RAP | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1RAP | INTRONIC | | |
| chr3 | 190345100 | 190345100 | Heterozygous T | A | Novel | IL1RAP | INTRONIC | | |
| chr3 | 193120380 | 193120380 | Heterozygous A | - | Novel | ATP13A4 | 3PRIME_UTR | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 193385059 | 193385059 | Heterozygous G | A | Novel | OPA1 | SYNONYMOUS_CODING | | |
| chr3 | 194080259 | 194080259 | Heterozygous G | A | Novel | LRR315 | NON_SYNONYMI T->I | | |
| chr3 | 194080259 | 194080259 | Heterozygous G | A | Novel | LRR315 | NON_SYNONYMI T->I | | |
| chr3 | 195390904 | 195390904 | Heterozygous T | C | Novel | SDHAP2 | INTRONIC | | |
| chr3 | 195391111 | 195391111 | Heterozygous T | C | Novel | SDHAP2 | INTRONIC | | |
| chr3 | 195395565 | 195395565 | Heterozygous G | A | Novel | SDHAP2 | INTRONIC | | |
| chr3 | 195397926 | 195397926 | Heterozygous T | A | Novel | SDHAP2 | INTRONIC | | |
| chr3 | 195434971 | 195434971 | Heterozygous T | - | Novel | SDHAP2 | INTRONIC | | |
| chr3 | 195508249 | 195508249 | Heterozygous A | G | Novel | MUC4 | INTRONIC | | |
| chr3 | 195508249 | 195508249 | Heterozygous A | G | Novel | MUC4 | INTRONIC | | |
| chr3 | 195508249 | 195508249 | Heterozygous A | G | Novel | MUC4 | NON_SYNONYMI V->A | | |
| chr3 | 195511959 | 195511959 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195511959 | 195511959 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195511959 | 195511959 | Heterozygous G | A | Novel | MUC4 | SYNONYMOUS_CODING | | |
| chr3 | 195513461 | 195513461 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195513461 | 195513461 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195513831 | 195513831 | Heterozygous A | G | Novel | MUC4 | NON_SYNONYMI P->S | | |
| chr3 | 195513831 | 195513831 | Heterozygous A | G | Novel | MUC4 | INTRONIC | | |
| chr3 | 195513831 | 195513831 | Heterozygous A | G | Novel | MUC4 | SYNONYMOUS_CODING | | |
| chr3 | 195514948 | 195514948 | Homozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195514948 | 195514948 | Homozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195514948 | 195514948 | Homozygous G | A | Novel | MUC4 | NON_SYNONYMI P->L | | |
| chr3 | 195515008 | 195515008 | Heterozygous C | G | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515008 | 195515008 | Heterozygous C | G | Novel | MUC4 | INTRONIC | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-----------------|-----------|----------|----------------------|-----------------------|-------------|-------------------|
| chr3 | 195515008 | 195515008 | Heterozygous C | G | Novel | MUC4 | NON_SYNONYMI G->A | | |
| chr3 | 195515031 | 195515031 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515031 | 195515031 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515031 | 195515031 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515031 | 195515031 | Heterozygous G | A | Novel | MUC4 | SYNONYMOUS_CODING | | |
| chr3 | 195515449 | 195515449 | Heterozygous A | T | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515449 | 195515449 | Heterozygous A | T | Novel | MUC4 | INTRONIC | | |
| chr3 | 195515449 | 195515449 | Heterozygous A | T | Novel | MUC4 | INTRONIC | | |
| chr3 | 195518110 | 195518110 | Heterozygous A | A | Novel | MUC4 | NON_SYNONYMI V->E | | |
| chr3 | 195518110 | 195518110 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195518110 | 195518110 | Heterozygous G | A | Novel | MUC4 | INTRONIC | | |
| chr3 | 195518110 | 195518110 | Heterozygous G | A | Novel | MUC4 | NON_SYNONYMI A->V | | |
| chr3 | 196613111 | 196613111 | Heterozygous A | G | Novel | SENPE5 | NON_SYNONYMOUS_CODING | | |
| chr3 | 196857544 | 196857545 | Heterozygous - | A | Novel | DLG1 | ESSENTIAL_SPLICE_SITE | | |
| chr3 | 196857544 | 196857545 | Heterozygous - | A | Novel | DLG1 | ESSENTIAL_SPLICE_SITE | | |
| chr3 | 197846629 | 197846629 | Heterozygous G | A | Novel | DLG1 | GENIC | | |
| chr4 | 53310 | 53310 | Heterozygous C | T | Novel | ZNF595 | EXONIC | | |
| chr4 | 628648 | 628648 | Heterozygous G | A | Novel | PDE8B | INTRONIC | | |
| chr4 | 628648 | 628648 | Heterozygous G | A | Novel | PDE8B | INTRONIC | | |
| chr4 | 658026 | 658026 | Heterozygous G | A | Novel | PDE8B | INTRONIC | | |
| chr4 | 658026 | 658026 | Heterozygous G | A | Novel | PDE8B | INTRONIC | | |
| chr4 | 887100 | 887100 | Heterozygous C | A | Novel | GAK | INTRONIC | | |
| chr4 | 892043 | 892043 | Heterozygous G | A | Novel | GAK | INTRONIC | | |
| chr4 | 947025 | 947025 | Heterozygous G | A | Novel | TMEM175 | SYNONYMOUS_CODING | | |
| chr4 | 1388410 | 1388411 | Heterozygous AT | - | Novel | CRIPAK | FRAMESHIFT_CODING | | |
| chr4 | 1388755 | 1388755 | Heterozygous C | G | Novel | CRIPAK | SYNONYMOUS_CODING | | |
| chr4 | 1388757 | 1388757 | Heterozygous T | C | Novel | CRIPAK | NON_SYNONYMI M->T | | |
| chr4 | 1388759 | 1388759 | Heterozygous C | T | Novel | CRIPAK | NON_SYNONYMI R->W | | |
| chr4 | 1741589 | 1741589 | Heterozygous A | TCC | Novel | TACC3 | INTRONIC | | |
| chr4 | 1806013 | 1806013 | Heterozygous G | - | Novel | FGFR3 | INTRONIC | | |
| chr4 | 1806013 | 1806013 | Heterozygous G | - | Novel | FGFR3 | INTRONIC | | |
| chr4 | 1806013 | 1806013 | Heterozygous G | - | Novel | FGFR3 | INTRONIC | | |
| chr4 | 2684508 | 2684508 | Heterozygous T | G | Novel | FAM193A | INTRONIC | | |
| chr4 | 3952895 | 3952895 | Heterozygous G | A | Novel | LOC348926 | EXONIC | | |
| chr4 | 4176680 | 4176680 | Heterozygous C | T | Novel | LOC348926 | EXONIC | | |
| chr4 | 4176709 | 4176710 | Heterozygous T | - | Novel | | GENIC | | |
| chr4 | 4176709 | 4176710 | Heterozygous A | - | ACT | | GENIC | | |
| chr4 | 4864429 | 4864429 | Heterozygous G | TCT | Novel | | GENIC | | |
| chr4 | 6083530 | 6083530 | Heterozygous G | T | Novel | MSX1 | NON_SYNONYMI R->S | | |
| chr4 | 6083530 | 6083530 | Heterozygous G | A | Novel | JAKMIP1 | INTRONIC | | |
| chr4 | 6083530 | 6083530 | Heterozygous G | A | Novel | JAKMIP1 | INTRONIC | | |
| chr4 | 7780460 | 7780460 | Heterozygous G | C | Novel | AFAP1AS | EXONIC | | |
| chr4 | 7780460 | 7780460 | Heterozygous G | C | Novel | AFAP1 | INTRONIC | | |
| chr4 | 7780460 | 7780460 | Heterozygous G | C | Novel | AFAP1 | INTRONIC | | |
| chr4 | 8983474 | 8983474 | Heterozygous A | C | Novel | | GENIC | | |
| chr4 | 9157388 | 9157388 | Homozygous A | T | Novel | | GENIC | | |
| chr4 | 13338234 | 13338234 | Heterozygous G | - | Novel | HSP90A82P | EXONIC | | |
| chr4 | 15503994 | 15503995 | Heterozygous - | TTTT | Novel | CC2D2A | INTRONIC | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 15993863 | 15993863 | Heterozygous C | T | Novel | PROM1 | SPLICE_SITE | | |
| chr4 | 17581590 | 17581590 | Heterozygous T | A | Novel | LAP3 | INTRONIC | | |
| chr4 | 17590392 | 17590392 | Heterozygous T | C | Novel | LAP3 | INTRONIC | | |
| chr4 | 17638330 | 17638331 | Heterozygous - | C | Novel | FAM184B | INTRONIC | | |
| chr4 | 20535423 | 20535424 | Heterozygous - | A | Novel | SLT2 | INTRONIC | | |
| chr4 | 20543019 | 20543019 | Heterozygous G | A | Novel | SLT2 | INTRONIC | | |
| chr4 | 22394239 | 22394239 | Heterozygous T | G | Novel | GPR125 | NON_SYNONYMI K->N | | |
| chr4 | 22415234 | 22415234 | Heterozygous G | A | Novel | GPR125 | SYNONYMOUS_CODING | | |
| chr4 | 22449029 | 22449029 | Heterozygous A | - | Novel | GPR125 | INTRONIC | | |
| chr4 | 23810243 | 23810243 | Heterozygous A | - | Novel | PPARGC1A | INTRONIC | | |
| chr4 | 25835209 | 25835209 | Heterozygous G | C | Novel | SEL1L3 | INTRONIC | | |
| chr4 | 26483827 | 26483827 | Heterozygous A | T | Novel | CKAR | INTRONIC | | |
| chr4 | 27004738 | 27004738 | Heterozygous A | - | Novel | STIM2 | INTRONIC | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr4 | 41615536 | 41615536 | Heterozygous | C | T | Novel | L1MCH1 | SYNONYMOUS_CODING | |
| chr4 | 41615536 | 41615536 | Heterozygous | C | T | Novel | L1MCH1 | SYNONYMOUS_CODING | |
| chr4 | 41615536 | 41615536 | Heterozygous | C | T | Novel | L1MCH1 | SYNONYMOUS_CODING | |
| chr4 | 41615536 | 41615536 | Heterozygous | C | T | Novel | L1MCH1 | SYNONYMOUS_CODING | |
| chr4 | 42445708 | 42445708 | Heterozygous | T | G | Novel | ATP8A1 | INTRONIC | |
| chr4 | 42445708 | 42445708 | Heterozygous | T | G | Novel | ATP8A1 | INTRONIC | |
| chr4 | 44691795 | 44691796 | Heterozygous | - | A | Novel | GUF1 | INTRONIC | |
| chr4 | 47183235 | 47183235 | Heterozygous | T | - | Novel | GABRB1 | INTRONIC | |
| chr4 | 47565807 | 47565809 | Heterozygous | TTC | --- | Novel | ATP10B | INTRONIC | |
| chr4 | 47900187 | 47900189 | Heterozygous | AAA | --- | Novel | NFXL1 | INTRONIC | |
| chr4 | 48178281 | 48178281 | Heterozygous | T | A | Novel | TEC | INTRONIC | |
| chr4 | 48542756 | 48542756 | Heterozygous | C | A | Novel | FRYL | NON_SYNONYMI>I | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 48834584 | 48834584 | Heterozygous | T | G | Novel | OGIAD1 | INTRONIC | |
| chr4 | 52928353 | 52928353 | Heterozygous | T | - | Novel | SPATA18 | INTRONIC | |
| chr4 | 52948557 | 52948557 | Heterozygous | C | T | Novel | SPATA18 | NON_SYNONYMI>R>C | |
| chr4 | 54139978 | 54139978 | Heterozygous | T | - | Novel | SGFD2 | INTRONIC | |
| chr4 | 54327211 | 54327212 | Heterozygous | - | A | Novel | F1P1L1 | DOWNSTREAM | |
| chr4 | 54327211 | 54327212 | Heterozygous | - | A | Novel | F1P1L1 | DOWNSTREAM | |
| chr4 | 54327211 | 54327212 | Heterozygous | - | A | Novel | F1P1L1 | DOWNSTREAM | |
| chr4 | 54327211 | 54327212 | Heterozygous | - | A | Novel | LNK1 | ESSENTIAL_SPLICE_SITE | |
| chr4 | 54327211 | 54327212 | Heterozygous | - | A | Novel | LNK1 | ESSENTIAL_SPLICE_SITE | |
| chr4 | 55131002 | 55131002 | Heterozygous | A | - | Novel | PDGFRA | INTRONIC | |
| chr4 | 56304807 | 56304807 | Heterozygous | T | A | Novel | CLOCK | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | TTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | GTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | TTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | GTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | TTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 56738794 | 56738795 | Heterozygous | T | GTTTG | Novel | EXOC1 | INTRONIC | |
| chr4 | 57872900 | 57872901 | Homozygous | - | T | Novel | POLR2B | INTRONIC | |
| chr4 | 60286113 | 60286114 | Heterozygous | - | A | Novel | EPHA5 | INTRONIC | |
| chr4 | 60286113 | 60286114 | Heterozygous | - | A | Novel | EPHA5 | INTRONIC | |
| chr4 | 68956464 | 68956464 | Heterozygous | T | C | Novel | TPRS511F | INTRONIC | |
| chr4 | 70255709 | 70255709 | Heterozygous | T | G | Novel | | GENIC | |
| chr4 | 71099775 | 71099775 | Heterozygous | G | C | Novel | C4orf7 | SYNONYMOUS_CODING | |
| chr4 | 71113480 | 71113480 | Heterozygous | T | - | Novel | CSN3 | INTRONIC | |
| chr4 | 71114702 | 71114703 | Heterozygous | - | T | Novel | CSN3 | INTRONIC | |
| chr4 | 71824731 | 71824731 | Heterozygous | A | T | Novel | MOBK1A | NON_SYNONYMI>V | |
| chr4 | 72428071 | 72428071 | Heterozygous | A | G | Novel | SLC4A4 | INTRONIC | |
| chr4 | 72428071 | 72428071 | Heterozygous | A | G | Novel | SLC4A4 | INTRONIC | |
| chr4 | 72428071 | 72428071 | Heterozygous | A | G | Novel | SLC4A4 | INTRONIC | |
| chr4 | 74310696 | 74310696 | Heterozygous | - | T | Novel | AFP | INTRONIC | |
| chr4 | 74735429 | 74735429 | Heterozygous | C | A | Novel | CXGL1 | SYNONYMOUS_CODING | |
| chr4 | 76415693 | 76415694 | Homozygous | --- | TA | Novel | RCHY1 | INTRONIC | |
| chr4 | 76415693 | 76415694 | Homozygous | --- | TA | Novel | RCHY1 | INTRONIC | |
| chr4 | 76415693 | 76415694 | Homozygous | --- | TA | Novel | RCHY1 | INTRONIC | |
| chr4 | 77084391 | 77084391 | Heterozygous | C | T | Novel | SCARB2 | NON_SYNONYMI>E | |
| chr4 | 77091187 | 77091191 | Heterozygous | AGCTG | --- | Novel | SCARB2 | INTRONIC | |
| chr4 | 77317630 | 77317630 | Heterozygous | C | T | Novel | CCDC158 | NON_SYNONYMI>S>N | |
| chr4 | 78641637 | 78641637 | Heterozygous | T | G | Novel | CNOT6L | NON_SYNONYMI>H>P | |
| chr4 | 79460648 | 79460648 | Heterozygous | A | - | Novel | FRAS1 | INTRONIC | |
| chr4 | 83424232 | 83424232 | Heterozygous | T | C | Novel | TMEM150C | SYNONYMOUS_CODING | |
| chr4 | 86921609 | 86921610 | Heterozygous | - | C | Novel | ARHGAP24 | INTRONIC | |
| chr4 | 86921609 | 86921610 | Heterozygous | - | C | Novel | ARHGAP24 | INTRONIC | |
| chr4 | 86921609 | 86921610 | Heterozygous | - | C | Novel | ARHGAP24 | INTRONIC | |
| chr4 | 87022390 | 87022390 | Heterozygous | A | G | Novel | MAPK10 | INTRONIC | |
| chr4 | 87022390 | 87022390 | Heterozygous | A | G | Novel | MAPK10 | INTRONIC | |
| chr4 | 87022390 | 87022390 | Heterozygous | A | G | Novel | MAPK10 | INTRONIC | |
| chr4 | 8815239 | 8815239 | Heterozygous | T | - | Novel | | GENIC | |
| chr4 | 8815440 | 8815440 | Heterozygous | A | - | Novel | | GENIC | |
| chr4 | 94693161 | 94693161 | Heterozygous | T | - | Novel | GRID2 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 95508282 | 95508282 | Heterozygous | T | - | Novel | PDLM5 | INTRONIC | |
| chr4 | 100336450 | 100336450 | Heterozygous | T | - | Novel | ADH7 | INTRONIC | |
| chr4 | 100336450 | 100336450 | Heterozygous | T | - | Novel | ADH7 | INTRONIC | |
| chr4 | 104066176 | 104066177 | Heterozygous | - | A | Novel | CEMPE | INTRONIC | |
| chr4 | 106621258 | 106621258 | Heterozygous | T | C | Novel | INTS12 | INTRONIC | |
| chr4 | 106621258 | 106621258 | Heterozygous | T | C | Novel | INTS12 | INTRONIC | |
| chr4 | 109746287 | 109746287 | Heterozygous | T | A | Novel | COL25A1 | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr4 | 109746287 | 109746287 | Heterozygous | T | A | Novel | COL25A1 | INTRONIC | |
| chr4 | 109895719 | 109895719 | Heterozygous | A | - | Novel | COL25A1 | SPLICE_SITE | |
| chr4 | 109895719 | 109895719 | Heterozygous | A | - | Novel | COL25A1 | SPLICE_SITE | |
| chr4 | 114269501 | 114269501 | Heterozygous | T | C | Novel | ANK2 | INTRONIC | |
| chr4 | 114269501 | 114269501 | Heterozygous | T | C | Novel | ANK2 | INTRONIC | |
| chr4 | 114269501 | 114269501 | Heterozygous | T | C | Novel | ANK2 | INTRONIC | |
| chr4 | 115856318 | 115856318 | Heterozygous | A | G | Novel | ANK2 | INTRONIC | |
| chr4 | 126398497 | 126398497 | Heterozygous | G | A | Novel | NDST4 | INTRONIC | |
| chr4 | 128812230 | 128812231 | Heterozygous | - | T | Novel | FAT4 | SPLICE_SITE | |
| chr4 | 128812230 | 128812231 | Heterozygous | - | T | Novel | PLK4 | INTRONIC | |
| chr4 | 128812230 | 128812231 | Heterozygous | - | T | Novel | PLK4 | INTRONIC | |
| chr4 | 129782853 | 129782853 | Heterozygous | T | C | Novel | PHF17 | SPLICE_SITE | |
| chr4 | 129782853 | 129782853 | Heterozygous | T | C | Novel | PHF17 | SPLICE_SITE | |
| chr4 | 140811064 | 140811068 | Heterozygous | TGC | --- | Novel | MAML3 | COMPLEX_VARIATION | |
| chr4 | 141327114 | 141327114 | Heterozygous | T | C | Novel | CLGN | NON_SYNONYMI>D>G | |
| chr4 | 141327114 | 141327114 | Heterozygous | T | C | Novel | CLGN | NON_SYNONYMI>D>G | |
| chr4 | 141580930 | 141580930 | Heterozygous | T | G | Novel | TBC1D9 | INTRONIC | |
| chr4 | 144507270 | 144507271 | Heterozygous | - | T | Novel | FREM3 | INTRONIC | |
| chr4 | 144507270 | 144507278 | Heterozygous | A | T | Novel | FREM3 | INTRONIC | |
| chr4 | 144921516 | 144921518 | Heterozygous | A | C | Novel | GYPB | INTRONIC | |
| chr4 | 145038802 | 145038802 | Heterozygous | T | - | Novel | GYPB | INTRONIC | |
| chr4 | 145581172 | 145581172 | Heterozygous | T | C | Novel | HHIP | INTRONIC | |
| chr4 | 148457006 | 148457006 | Heterozygous | T | - | Novel | EDNRA | INTRONIC | |
| chr4 | 148457006 | 148457006 | Heterozygous | T | - | Novel | EDNRA | INTRONIC | |
| chr4 | 148457006 | 148457006 | Heterozygous | T | - | Novel | EDNRA | INTRONIC | |
| chr4 | 148578918 | 148578918 | Heterozygous | A | - | Novel | PRMT10 | INTRONIC | |
| chr4 | 155180653 | 155180656 | Heterozygous | CACA | --- | Novel | DCHS2 | INTRONIC | |
| chr4 | 155244402 | 155244405 | Heterozygous | TTTG | --- | Novel | DCHS2 | FRAMESHIFT_CODING | |
| chr4 | 155244402 | 155244405 | Heterozygous | TTTG | --- | Novel | DCHS2 | INTRONIC | |
| chr4 | 164436485 | 164436485 | Heterozygous | G | T | Novel | C4orf43 | NON_SYNONYMI>R>S | |
| chr4 | 166259081 | 166259081 | Heterozygous | C | G | Novel | SC4MOL | SPRIME_UTR | |
| chr4 | 166259081 | 166259081 | Heterozygous | C | G | Novel | SC4MOL | NON_SYNONYMI>P>A | |
| chr4 | 169212919 | 169212919 | Heterozygous | T | A | Novel | DDX60 | NON_SYNONYMI>M>L | |
| chr4 | 169325282 | 169325283 | Heterozygous | - | A | Novel | DDX60L | INTRONIC | |
| chr4 | 169337957 | 169337958 | Heterozygous | - | A | Novel | DDX60L | INTRONIC | |
| chr4 | 169589443 | 169589443 | Heterozygous | C | A | Novel | PALLD | NON_SYNONYMI>D>E | |
| chr4 | 169589443 | 169589443 | Heterozygous | C | A | Novel | PALLD | NON_SYNONYMI>D>E | |
| chr4 | 169589443 | 169589443 | Heterozygous | C | A | Novel | PALLD | SPRIME_UTR | |
| chr4 | 170077835 | 170077835 | Heterozygous | A | - | Novel | SH3RF1 | SPLICE_SITE | |
| chr4 | 170838892 | 170838893 | Homozygous | CT | --- | Novel | CLCN3 | INTRONIC | |
| chr4 | 170838892 | 170838893 | Homozygous | CT | --- | Novel | CLCN3 | INTRONIC | |
| chr4 | 170913321 | 170913321 | Homozygous | A | C | Novel | MFAP3L | SYNONYMOUS_CODING | |
| chr4 | 170913321 | 170913321 | Homozygous | A | C | Novel | MFAP3L | SYNONYMOUS_CODING | |
| chr4 | 177142820 | 177142820 | Heterozygous | C | T | Novel | ASB5 | SYNONYMOUS_CODING | |
| chr4 | 178256978 | 178256979 | Heterozygous | - | A | Novel | NEIL3 | ESSENTIAL_SPLICE_SITE | |
| chr4 | 178359978 | 178359978 | Heterozygous | T | C | Novel | AGA | NON_SYNONYMI>S | |
| chr4 | 178359978 | 178359978 | Heterozygous | T | C | Novel | AGA | EXONIC | |
| chr4 | 178359978 | 178359978 | Heterozygous | T | C | Novel | AGA | NON_SYNONYMI>S | |
| chr4 | 183522410 | 183522412 | Heterozygous | TTG | --- | Novel | ODZ3 | INTRONIC | |
| chr4 | 184570724 | 184570724 | Heterozygous | A | - | Novel | RWDD4A | SPLICE_SITE | |
| chr4 | 186274775 | 186274775 | Heterozygous | A | G | Novel | SNX25 | INTRONIC | |
| chr4 | 186288458 | 186288458 | Heterozygous | T | C | Novel | LRF2BP | INTRONIC | |
| chr4 | 187524405 | 187524405 | Heterozygous | T | C | Novel | FAT1 | NON_SYNONYMI>M>V | |
| chr4 | 187540883 | 187540883 | Heterozygous | A | C | Novel | FAT1 | NON_SYNONYMI>S>A | |
| chr4 | 187627660 | 187627661 | Heterozygous | AA | --- | Novel | FAT1 | INTRONIC | |
| chr4 | 187627660 | 187627661 | Heterozygous | AA | --- | Novel | FAT1 | INTRONIC | |
| chr4 | 190884228 | 190884228 | Heterozygous | --- | TTG | Novel | FRG1 | INTRONIC | |
| chr5 | 182098 | 182098 | Heterozygous | G | A | Novel | PLEKHG4B | INTRONIC | |
| chr5 | 472830 | 472830 | Heterozygous | C | A | Novel | LOC25845 | EXONIC | |
| chr5 | 472830 | 472830 | Heterozygous | C | A | Novel | SLG9A3 | DOWNSTREAM | |
| chr5 | 485359 | 485360 | Heterozygous | CG | C- | Novel | SLG9A3 | INTRONIC | |
| chr5 | 786041 | 786041 | Heterozygous | C | T | Novel | ZDHHC11 | SPRIME_UTR</ | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr5 | 35783699 | 35783699 | Heterozygous G | | C | Novel | SPEF2 | NON_SYNONYM>K->N | |
| chr5 | 37125561 | 37125565 | Heterozygous AGATA | | ---- | Novel | | GENIC | |
| chr5 | 37605123 | 37605123 | Heterozygous T | | - | Novel | WDR70 | INTRONIC | |
| chr5 | 37834720 | 37834720 | Heterozygous C | | T | Novel | | GENIC | |
| chr5 | 39002486 | 39002486 | Heterozygous G | | - | Novel | RICTOR | INTRONIC | |
| chr5 | 41049295 | 41049295 | Heterozygous T | | C | Novel | HEATR7B2 | INTRONIC | |
| chr5 | 45267103 | 45267103 | Heterozygous T | | G | Novel | HON1 | INTRONIC | |
| chr5 | 45304009 | 45304009 | Heterozygous A | | G | Novel | HON1 | INTRONIC | |
| chr5 | 49699283 | 49699283 | Heterozygous A | | G | Novel | EMB | SYNONYMOUS_CODING | |
| chr5 | 49963826 | 49963826 | Heterozygous G | | A | Novel | PARP8 | INTRONIC | |
| chr5 | 49963826 | 49963826 | Heterozygous G | | A | Novel | PARP8 | INTRONIC | |
| chr5 | 49963826 | 49963826 | Heterozygous G | | A | Novel | PARP8 | INTRONIC | |
| chr5 | 50125901 | 50125901 | Heterozygous T | | C | Novel | PARP8 | INTRONIC | |
| chr5 | 50125901 | 50125901 | Heterozygous T | | C | Novel | PARP8 | INTRONIC | |
| chr5 | 50125901 | 50125901 | Heterozygous T | | C | Novel | PARP8 | INTRONIC | |
| chr5 | 52201692 | 52201692 | Heterozygous T | | A | Novel | ITGA1 | NON_SYNONYM>M->K | |
| chr5 | 52954468 | 52954469 | Heterozygous - | | T | Novel | NDUFS4 | INTRONIC | |
| chr5 | 54645351 | 54645352 | Heterozygous --- | | GTA | Novel | SKIV2L2 | INTRONIC | |
| chr5 | 54710073 | 54710073 | Heterozygous T | | - | Novel | SKIV2L2 | SPLICE_SITE | |
| chr5 | 54948586 | 54948587 | Heterozygous - | | - | Novel | SLC38A9 | INTRONIC | |
| chr5 | 60062315 | 60062315 | Heterozygous G | | C | Novel | ELOVL7 | INTRONIC | |
| chr5 | 60062315 | 60062315 | Heterozygous G | | C | Novel | ELOVL7 | INTRONIC | |
| chr5 | 60982634 | 60982635 | Heterozygous - | | T | Novel | FLJ37543 | INTRONIC | |
| chr5 | 63510485 | 63510485 | Heterozygous A | | G | Novel | RNF180 | INTRONIC | |
| chr5 | 63510485 | 63510485 | Heterozygous A | | G | Novel | RNF180 | INTRONIC | |
| chr5 | 64099941 | 64099942 | Heterozygous - | | A | Novel | CWC27 | INTRONIC | |
| chr5 | 64766859 | 64766859 | Heterozygous T | | G | Novel | ADAMTS8 | SYNONYMOUS_CODING | |
| chr5 | 64859283 | 64859283 | Heterozygous G | | T | Novel | CENPK | UPSTREAM | |
| chr5 | 64859283 | 64859283 | Heterozygous G | | T | Novel | PPWD1 | NON_SYNONYM>R->L | |
| chr5 | 65372783 | 65372784 | Heterozygous - | | T | Novel | ERBB2IP | INTRONIC | |
| chr5 | 65372783 | 65372784 | Heterozygous - | | T | Novel | ERBB2IP | INTRONIC | |
| chr5 | 66438359 | 66438359 | Heterozygous A | | C | Novel | MAST4 | NON_SYNONYM>K->E | |
| chr5 | 66438359 | 66438359 | Heterozygous A | | C | Novel | MAST4 | NON_SYNONYM>K->E | |
| chr5 | 67589061 | 67589061 | Heterozygous T | | G | Novel | PIK3R1 | INTRONIC | |
| chr5 | 67589061 | 67589061 | Heterozygous T | | G | Novel | PIK3R1 | INTRONIC | |
| chr5 | 67589061 | 67589061 | Heterozygous T | | G | Novel | PIK3R1 | INTRONIC | |
| chr5 | 68467296 | 68467297 | Heterozygous - | | T | Novel | CNGB1 | INTRONIC | |
| chr5 | 68715804 | 68715804 | Heterozygous G | | A | Novel | MARVELD2 | NON_SYNONYM>V->M | |
| chr5 | 68804881 | 68804881 | Heterozygous A | | G | Novel | OCLN | INTRONIC | |
| chr5 | 69405856 | 69405856 | Heterozygous A | | G | Novel | | GENIC | |
| chr5 | 72192848 | 72192849 | Heterozygous - | | T | Novel | TNPO1 | INTRONIC | |
| chr5 | 72192848 | 72192849 | Heterozygous - | | T | Novel | TNPO1 | INTRONIC | |
| chr5 | 74638680 | 74638680 | Heterozygous A | | G | Novel | HMGCR | INTRONIC | |
| chr5 | 74638680 | 74638680 | Heterozygous A | | G | Novel | HMGCR | INTRONIC | |
| chr5 | 75964886 | 75964886 | Heterozygous G | | A | Novel | IQGAP2 | INTRONIC | |
| chr5 | 78416974 | 78416974 | Heterozygous A | | - | Novel | BHMT | INTRONIC | |
| chr5 | 79054469 | 79054472 | Heterozygous TATG | | ---- | Novel | CMYA5 | INTRONIC | |
| chr5 | 79279578 | 79279578 | Heterozygous G | | A | Novel | MTX3 | NON_SYNONYM>R->W | |
| chr5 | 79279578 | 79279578 | Heterozygous G | | A | Novel | MTX3 | 3PRIME_UTR | |
| chr5 | 79357882 | 79357883 | Heterozygous - | | T | Novel | THBS4 | INTRONIC | |
| chr5 | 80376074 | 80376074 | Heterozygous G | | C | Novel | RASGRF2 | INTRONIC | |
| chr5 | 80604837 | 80604837 | Heterozygous C | | T | Novel | ZCCHC9 | NON_SYNONYM>P->L | |
| chr5 | 80604837 | 80604837 | Heterozygous C | | T | Novel | ZCCHC9 | NON_SYNONYM>P->L | |
| chr5 | 80604837 | 80604837 | Heterozygous C | | T | Novel | ZCCHC9 | NON_SYNONYM>P->L | |
| chr5 | 81571858 | 81571858 | Heterozygous G | | A | Novel | RPS23 | 3PRIME_UTR | |
| chr5 | 81601158 | 81601158 | Heterozygous T | | G | Novel | ATP8A1P1 | UPSTREAM | |
| chr5 | 89814988 | 89814988 | Heterozygous G | | C | Novel | LYSMD3 | NON_SYNONYM>T->R | |
| chr5 | 89815142 | 89815142 | Heterozygous A | | C | Novel | LYSMD3 | NON_SYNONYM>S->A | |
| chr5 | 90077515 | 90077515 | Heterozygous A | | G | Novel | GPR98 | INTRONIC | |
| chr5 | 90077515 | 90077515 | Heterozygous A | | G | Novel | GPR98 | INTRONIC | |
| chr5 | 90086591 | 90086592 | Heterozygous TT | | --- | Novel | GPR98 | INTRONIC | |
| chr5 | 90086591 | 90086592 | Heterozygous TT | | --- | Novel | GPR98 | INTRONIC | |
| chr5 | 108168452 | 108168452 | Heterozygous T | | - | Novel | FER | INTRONIC | |
| chr5 | 108387230 | 108387230 | Heterozygous G | | - | Novel | FER | INTRONIC | |
| chr5 | 10891731 | 10891731 | Heterozygous A | | - | Novel | PJA2 | SPLICE_SITE | |
| chr5 | 114480554 | 114480554 | Heterozygous G | | T | Novel | TRIM36 | INTRONIC | |
| chr5 | 115628134 | 115628134 | Heterozygous G | | - | Novel | COMM1D0 | INTRONIC | |
| chr5 | 126771111 | 126771111 | Heterozygous C | | T | Novel | MEGF10 | SYNONYMOUS_CODING | |
| chr5 | 128326177 | 128326178 | Heterozygous - | | A | Novel | SLC27A6 | INTRONIC | |
| chr5 | 128326177 | 128326178 | Heterozygous - | | A | Novel | SLC27A6 | INTRONIC | |
| chr5 | 128351629 | 128351629 | Heterozygous C | | T | Novel | SLC27A6 | NON_SYNONYM>R->W | |
| chr5 | 128351629 | 128351629 | Heterozygous C | | T | Novel | SLC27A6 | NON_SYNONYM>R->W | |
| chr5 | 128864292 | 128864292 | Heterozygous A | | G | Novel | ADAMTS19 | NON_SYNONYM>K->R | |
| chr5 | 128989925 | 128989926 | Heterozygous - | | A | Novel | ADAMTS19 | INTRONIC | |
| chr5 | 130778259 | 130778259 | Heterozygous C | | A | Novel | RAPGEF5 | INTRONIC | |
| chr5 | 130778259 | 130778259 | Heterozygous C | | A | Novel | RAPGEF6 | INTRONIC | |
| chr5 | 130778259 | 130778259 | Heterozygous C | | A | Novel | RAPGEF6 | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-------------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr5 | 130778259 | 130778259 | Heterozygous C | | A | Novel | RAPGEF6 | INTRONIC | |
| chr5 | 130778259 | 130778259 | Heterozygous C | | A | Novel | RAPGEF6 | INTRONIC | |
| chr5 | 131323988 | 131323988 | Heterozygous G | | A | Novel | ACSL6 | INTRONIC | |
| chr5 | 131323988 | 131323988 | Heterozygous G | | A | Novel | ACSL6 | INTRONIC | |
| chr5 | 131606854 | 131606854 | Heterozygous C | | T | Novel | PDLIM4 | INTRONIC | |
| chr5 | 131606854 | 131606854 | Heterozygous C | | T | Novel | PDLIM4 | INTRONIC | |
| chr5 | 132023649 | 132023649 | Heterozygous AGAT | | ---- | Novel | | GENIC | |
| chr5 | 132403057 | 132403058 | Heterozygous - | | --- | Novel | KIF3A | INTRONIC | |
| chr5 | 133640050 | 133640050 | Heterozygous - | | A | Novel | HSPA4 | INTRONIC | |
| chr5 | 134785326 | 134785326 | Heterozygous C | | G | Novel | CPKL3 | INTRONIC | |
| chr5 | 137589877 | 137589877 | Heterozygous T | | - | Novel | GFR3A | NON_SYNONYM>V->I | |
| chr5 | 139884478 | 139884478 | Heterozygous G | | C | Novel | ANKHD1-EIF | NON_SYNONYM>C->S | |
| chr5 | 139884478 | 139884478 | Heterozygous G | | C | Novel | ANKHD1 | NON_SYNONYM>C->S | |
| chr5 | 140537157 | 140537157 | Heterozygous G | | C | Novel | PCDH17 | EXONIC | |
| chr5 | 145199606 | 145199606 | Heterozygous A | | C | Novel | PRELID2 | INTRONIC | |
| chr5 | 145199606 | 145199606 | Heterozygous A | | C | Novel | PRELID2 | INTRONIC | |
| chr5 | 145199606 | 145199606 | Heterozygous A | | C | Novel | PRELID2 | INTRONIC | |
| chr5 | 145851164 | 145851164 | Heterozygous T | | - | Novel | TCERG1 | INTRONIC | |
| chr5 | 145851164 | 145851164 | Heterozygous T | | - | Novel | TCERG1 | INTRONIC | |
| chr5 | 146030225 | 146030225 | Heterozygous G | | A | Novel | PPP2R2B | SYNONYMOUS_CODING | |
| chr5 | 146030225 | 146030225 | Heterozygous G | | A | Novel | PPP2R2B | SYNONYMOUS_CODING | |
| chr5 | 146030225 | 146030225 | Heterozygous G | | A | Novel | PPP2R2B | SYNONYMOUS_CODING | |
| chr5 | 146030225 | 146030225 | Heterozygous G | | A | Novel | PPP2R2B | SYNONYMOUS_CODING | |
| chr5 | 146030225 | 146030225 | Heterozygous G | | A | Novel | PPP2R2B | SYNONYMOUS_CODING | |
| chr5 | 147019336 | 147019337 | Heterozygous AA | | --- | Novel | JAKMIP2 | INTRONIC | |
| chr5 | 147484466 | 147484466 | Heterozygous A | | - | Novel | SPINK5 | INTRONIC | |
| chr5 | 147484466 | 147484466 | Heterozygous A | | - | Novel | SPINK5 | INTRONIC | |
| chr5 | 147484466 | 147484466 | Heterozygous A | | - | Novel | SPINK5 | INTRONIC | |
| chr5 | 147798804 | 147798804 | Heterozygous A | | T | Novel | FBXO38 | INTRONIC | |
| chr5 | 147798804 | 147798804 | Heterozygous A | | T | Novel | FBXO38 | INTRONIC | |
| chr5 | 149389589 | 149389590 | Heterozygous --- | | AT | Novel | HMGXB3 | INTRONIC | |
| chr5 | 149433844 | 149433844 | Heterozygous G | | A | Novel | HMGXB3 | DOWNSTREAM | |
| chr5 | 149441017 | 149441017 | Heterozygous G | | C | Novel | CSF1R | INTRONIC | |
| chr5 | 149513811 | 149513811 | Heterozygous A | | C | Novel | CSF1R | INTRONIC | |
| chr5 | 149582191 | 149582191 | Heterozygous A | | C | Novel | PDGFRB | INTRONIC | |
| chr5 | 149832822 | 149832822 | Heterozygous G | | A | Novel | SLC6A7 | NON_SYNONYM>G->S | |
| chr5 | 150052115 | 150052115 | Heterozygous A | | T | Novel | NDST1 | SYNONYMOUS_CODING | |
| chr5 | 150052115 | 150052115 | Heterozygous A | | T | Novel | MYO23 | INTRONIC | |
| chr5 | 150052115 | 150052115 | Heterozygous A | | T | Novel | MYO23 | INTRONIC | |
| chr5 | 150512740 | 150512740 | Heterozygous G | | A | Novel | ANKA4 | SYNONYMOUS_CODING | |
| chr5 | 150512740 | 150512740 | Heterozygous G | | A | Novel | ANKA4 | SYNONYMOUS_CODING | |
| chr5 | 150844000 | 150844041 | Heterozygous TC | | --- | Novel | SLC38A1 | INTRONIC | |
| chr5 | 150885100 | 150885100 | Heterozygous G | | A | Novel | FAT2 | 3PRIME_UTR | |
| chr5 | 151271781 | 151271781 | Heterozygous G | | A | Novel | GLRA1 | INTRONIC | |
| chr5 | 151271781 | 151271781 | Heterozygous G | | A | Novel | GLRA1 | INTRONIC | |
| chr5 | 154210349 | 154210340 | Heterozygous --- | | AGG | Novel | C5orf4 | INTRONIC | |
| chr5 | 155771421 | 155771422 | Homozygous - | | T | Novel | SGCD | INTRONIC | |
| chr5 | 155771421 | 155771422 | Homozygous - | | T | Novel | SGCD | INTRONIC | |
| chr5 | 155771421 | 155771422 | Homozygous - | | T | Novel | SGCD | INTRONIC | |
| chr5 | 155771421 | 155771422 | Homozygous - | | T | Novel | SGCD | INTRONIC | |
| chr5 | 156817572 | 156817572 | Heterozygous A | | G | Novel | CYFIP2 | NON_SYNONYM>I->V | |
| chr5 | 156817572 | 156817572 | Heterozygous A | | G | Novel | CYFIP2 | NON_SYNONYM>I->V | |
| chr5 | 156817572 | 156817572 | Heterozygous A | | G | Novel | CYFIP2 | NON_SYNONYM>I->V | |
| chr5 | 157075944 | 157075945 | Heterozygous AC | | --- | Novel | SOX30 | INTRONIC | |
| chr5 | 157075944 | 157075945 | Heterozygous AC | | --- | Novel | SOX30 | INTRONIC | |
| chr5 | 159478090 | 159478090 | Heterozygous T | | - | Novel | TT01 | INTRONIC | |
| chr5 | 159821054 | 159821054 | Heterozygous T | | C | Novel | C5orf5 | NON_SYNONYM>I->V | |
| chr5 | 161576406 | 161576406 | Heterozygous C | | G | Novel | GABRG2 | INTRONIC | |
| chr5 | 161576406 | 161576406 | Heterozygous C | | G | Novel | GABRG2 | INTRONIC | |
| chr5 | 161576406 | 161576406 | Heterozygous C | | G | Novel | GABRG2 | INTRONIC | |
| chr5 | 167642103 | 167642103 | Heterozygous G | | A | Novel | ODZ2 | NON_SYNONYM>V->M | |
| chr5 | 167858463 | 167858466 | Heterozygous CTGG | | ---- | Novel</ | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr8 | 128150764 | 128150764 | Heterozygous | T | C | Novel | THEMIS | NON_SYNONYMI<E>->G | |
| chr8 | 128150764 | 128150764 | Heterozygous | T | C | Novel | THEMIS | NON_SYNONYMI<E>->G | |
| chr8 | 129588259 | 129588259 | Heterozygous | G | T | Novel | LAMA2 | NON_SYNONYMI<W>->C | |
| chr8 | 129588259 | 129588259 | Heterozygous | G | T | Novel | LAMA2 | NON_SYNONYMI<W>->C | |
| chr8 | 130505372 | 130505372 | Heterozygous | A | G | Novel | SAMD3 | INTRONIC | |
| chr8 | 130505372 | 130505372 | Heterozygous | A | G | Novel | SAMD3 | INTRONIC | |
| chr8 | 131936325 | 131936327 | Heterozygous | TTT | --- | Novel | MED23 | INTRONIC | |
| chr8 | 131936325 | 131936327 | Heterozygous | TTT | --- | Novel | MED23 | INTRONIC | |
| chr8 | 131948470 | 131948470 | Heterozygous | A | - | Novel | MED23 | INTRONIC | |
| chr8 | 131948470 | 131948470 | Heterozygous | A | - | Novel | MED23 | INTRONIC | |
| chr8 | 133094153 | 133094153 | Heterozygous | G | A | Novel | C6orf192 | NON_SYNONYMI<P>->L | |
| chr8 | 133783626 | 133783628 | Heterozygous | TCT | --- | Novel | EY44 | INTRONIC | |
| chr8 | 133783626 | 133783628 | Heterozygous | TCT | --- | Novel | EY44 | INTRONIC | |
| chr8 | 133783626 | 133783628 | Heterozygous | TCT | --- | Novel | EY44 | INTRONIC | |
| chr8 | 134638476 | 134638476 | Heterozygous | A | G | Novel | SGK1 | INTRONIC | |
| chr8 | 135286439 | 135286439 | Heterozygous | A | - | Novel | HBS1L | INTRONIC | |
| chr8 | 135286439 | 135286439 | Heterozygous | A | - | Novel | HBS1L | INTRONIC | |
| chr8 | 135386010 | 135386010 | Heterozygous | T | C | Novel | HBS1L | INTRONIC | |
| chr8 | 135386010 | 135386010 | Heterozygous | T | C | Novel | HBS1L | INTRONIC | |
| chr8 | 135386010 | 135386010 | Heterozygous | T | C | Novel | HBS1L | INTRONIC | |
| chr8 | 136582143 | 136582143 | Heterozygous | A | G | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 136582143 | 136582143 | Heterozygous | A | G | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 136582143 | 136582143 | Heterozygous | A | G | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 136582194 | 136582195 | Heterozygous | --- | AAA | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 136582194 | 136582195 | Heterozygous | --- | AAA | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 136582194 | 136582195 | Heterozygous | --- | AAA | Novel | BCLAF1 | 3PRIME_UTR | |
| chr8 | 139226191 | 139226191 | Heterozygous | G | A | Novel | EC72L | DOWNSTREAM | |
| chr8 | 139226191 | 139226191 | Heterozygous | G | A | Novel | REPS1 | 3PRIME_UTR | |
| chr8 | 139226191 | 139226191 | Heterozygous | G | A | Novel | RFP51 | 3PRIME_UTR | |
| chr8 | 142487319 | 142487319 | Heterozygous | A | T | Novel | VT1A | INTRONIC | |
| chr8 | 142688811 | 142688811 | Homozygous | C | T | Novel | GPR126 | NON_SYNONYMI<T>->M | |
| chr8 | 142688811 | 142688811 | Homozygous | C | T | Novel | GPR126 | NON_SYNONYMI<T>->M | |
| chr8 | 142688811 | 142688811 | Homozygous | C | T | Novel | GPR126 | NON_SYNONYMI<T>->M | |
| chr8 | 142688811 | 142688811 | Homozygous | C | T | Novel | GPR126 | NON_SYNONYMI<T>->M | |
| chr8 | 142718738 | 142718738 | Heterozygous | A | C | Novel | GPR126 | INTRONIC | |
| chr8 | 142718738 | 142718738 | Heterozygous | A | C | Novel | GPR126 | INTRONIC | |
| chr8 | 142718738 | 142718738 | Heterozygous | A | C | Novel | GPR126 | INTRONIC | |
| chr8 | 142718738 | 142718738 | Heterozygous | A | C | Novel | GPR126 | INTRONIC | |
| chr8 | 143095351 | 143095351 | Heterozygous | C | T | Novel | HIVEP2 | NON_SYNONYMI<S>CODING | |
| chr8 | 143382255 | 143382256 | Heterozygous | GT | - | Novel | AI1 | INTRONIC | |
| chr8 | 144806004 | 144806004 | Heterozygous | G | A | Novel | UTRN | NON_SYNONYMI<S>CODING | |
| chr8 | 144837837 | 144837837 | Heterozygous | C | A | Novel | UTRN | INTRONIC | |
| chr8 | 144837920 | 144837921 | Heterozygous | - | T | Novel | UTRN | INTRONIC | |
| chr8 | 146287308 | 146287308 | Heterozygous | G | T | Novel | SHPRH | INTRONIC | |
| chr8 | 146287308 | 146287308 | Heterozygous | G | T | Novel | SHPRH | INTRONIC | |
| chr8 | 146875675 | 146875675 | Heterozygous | C | T | Novel | RAB32 | NON_SYNONYMI<S>CODING | |
| chr8 | 149691292 | 149691292 | Heterozygous | T | - | Novel | GENIC | | |
| chr8 | 149922946 | 149922946 | Heterozygous | A | G | Novel | KATNA1 | INTRONIC | |
| chr8 | 149982884 | 149982884 | Heterozygous | C | T | Novel | LATS1 | NON_SYNONYMI<R>->H | |
| chr8 | 150390118 | 150390118 | Heterozygous | C | T | Novel | ULBP3 | EXONIC | |
| chr8 | 151116696 | 151116696 | Heterozygous | T | A | Novel | PLEKHG1 | INTRONIC | |
| chr8 | 151197203 | 151197203 | Heterozygous | T | C | Novel | MTHFD1L | INTRONIC | |
| chr8 | 151870086 | 151870086 | Heterozygous | A | G | Novel | AKAP12 | NON_SYNONYMI<K>->R | |
| chr8 | 151870086 | 151870086 | Heterozygous | A | G | Novel | AKAP12 | NON_SYNONYMI<K>->R | |
| chr8 | 151870330 | 151870332 | Heterozygous | AGG | --- | Novel | AKAP12 | NON_SYNONYMI<S>CODING | |
| chr8 | 151870330 | 151870332 | Heterozygous | AGG | --- | Novel | AKAP12 | NON_SYNONYMI<S>CODING | |
| chr8 | 152557349 | 152557349 | Heterozygous | T | C | Novel | SYNE1 | NON_SYNONYMI<S>CODING | |
| chr8 | 152557349 | 152557349 | Heterozygous | T | C | Novel | SYNE1 | NON_SYNONYMI<S>CODING | |
| chr8 | 152557349 | 152557349 | Heterozygous | T | C | Novel | SYNE1 | NON_SYNONYMI<S>CODING | |
| chr8 | 152629773 | 152629773 | Heterozygous | A | - | Novel | SYNE1 | INTRONIC | |
| chr8 | 152629773 | 152629773 | Heterozygous | A | - | Novel | SYNE1 | INTRONIC | |
| chr8 | 152629773 | 152629773 | Heterozygous | A | - | Novel | SYNE1 | INTRONIC | |
| chr8 | 152629773 | 152629773 | Heterozygous | A | - | Novel | SYNE1 | INTRONIC | |
| chr8 | 157495952 | 157495952 | Heterozygous | T | - | Novel | ARID1B | INTRONIC | |
| chr8 | 157495952 | 157495952 | Heterozygous | T | - | Novel | ARID1B | INTRONIC | |
| chr8 | 157720997 | 157720997 | Heterozygous | C | T | Novel | C6orf35 | INTRONIC | |
| chr8 | 159462597 | 159462597 | Heterozygous | T | C | Novel | TAGAP | INTRONIC | |
| chr8 | 159462597 | 159462597 | Heterozygous | T | C | Novel | TAGAP | INTRONIC | |
| chr8 | 159462597 | 159462597 | Heterozygous | T | C | Novel | TAGAP | INTRONIC | |
| chr8 | 159462597 | 159462597 | Heterozygous | T | C | Novel | TAGAP | INTRONIC | |
| chr8 | 160221740 | 160221740 | Heterozygous | A | G | Novel | PNLDC1 | 5PRIME_UTR | |
| chr8 | 160914016 | 160914016 | Heterozygous | A | T | Novel | LPAL2 | INTRONIC | |
| chr8 | 160914016 | 160914016 | Heterozygous | A | T | Novel | LPAL2 | INTRONIC | |
| chr8 | 161519351 | 161519353 | Heterozygous | CTG | --- | Novel | MAP3K4 | INTRONIC | |
| chr8 | 161519351 | 161519353 | Heterozygous | CTG | --- | Novel | MAP3K4 | NON_SYNONYMI<S>CODING | |
| chr8 | 166401594 | 166401594 | Heterozygous | C | G | Novel | C6orf176 | UPSTREAM | |
| chr8 | 166401594 | 166401594 | Heterozygous | C | G | Novel | C6orf176 | UPSTREAM | |
| chr8 | 166401594 | 166401594 | Heterozygous | C | G | Novel | C6orf176 | UPSTREAM | |
| chr8 | 166743096 | 166743096 | Heterozygous | G | C | Novel | LOC441177 | EXONIC | |
| chr8 | 166743096 | 166743096 | Heterozygous | G | C | Novel | SFT2D1 | INTRONIC | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr8 | 167585803 | 167585803 | Homozygous | T | A | Novel | TCF10L2 | INTRONIC | |
| chr8 | 168084692 | 168084693 | Heterozygous | - | A | Novel | GENIC | | |
| chr8 | 169619834 | 169619834 | Heterozygous | T | A | Novel | THBS2 | INTRONIC | |
| chr8 | 170115868 | 170115868 | Heterozygous | A | - | Novel | PHF10 | INTRONIC | |
| chr8 | 170115868 | 170115868 | Heterozygous | A | - | Novel | PHF10 | INTRONIC | |
| chr8 | 170871043 | 170871043 | Heterozygous | G | A | Novel | TBP | NON_SYNONYMI<S>CODING | |
| chr8 | 170871043 | 170871043 | Heterozygous | G | A | Novel | TBP | NON_SYNONYMI<S>CODING | |
| chr8 | 170871052 | 170871052 | Heterozygous | G | A | Novel | TBP | NON_SYNONYMI<S>CODING | |
| chr8 | 170871052 | 170871052 | Heterozygous | G | A | Novel | TBP | NON_SYNONYMI<S>CODING | |
| chr7 | 716832 | 716832 | Heterozygous | C | T | Novel | PRKAR1B | INTRONIC | |
| chr7 | 716832 | 716832 | Heterozygous | C | T | Novel | PRKAR1B | INTRONIC | |
| chr7 | 716832 | 716832 | Heterozygous | C | T | Novel | PRKAR1B | INTRONIC | |
| chr7 | 822244 | 822244 | Heterozygous | C | T | Novel | HEATR2 | INTRONIC | |
| chr7 | 878560 | 878560 | Heterozygous | G | A | Novel | SUN1 | NON_SYNONYMI<G>->D | |
| chr7 | 878560 | 878560 | Heterozygous | G | A | Novel | SUN1 | NON_SYNONYMI<G>->D | |
| chr7 | 878560 | 878560 | Heterozygous | G | A | Novel | SUN1 | NON_SYNONYMI<G>->D | |
| chr7 | 878560 | 878560 | Heterozygous | G | A | Novel | SUN1 | NON_SYNONYMI<G>->D | |
| chr7 | 882829 | 882829 | Heterozygous | G | - | Novel | SUN1 | INTRONIC | |
| chr7 | 882829 | 882829 | Heterozygous | G | - | Novel | SUN1 | INTRONIC | |
| chr7 | 882829 | 882829 | Heterozygous | G | - | Novel | SUN1 | INTRONIC | |
| chr7 | 882829 | 882829 | Heterozygous | G | - | Novel | SUN1 | INTRONIC | |
| chr7 | 882829 | 882829 | Heterozygous | G | - | Novel | SUN1 | INTRONIC | |
| chr7 | 2625925 | 2625925 | Heterozygous | A | G | Novel | IQCE | NON_SYNONYMI<E>->G | |
| chr7 | 2625925 | 2625925 | Heterozygous | A | G | Novel | IQCE | NON_SYNONYMI<E>->G | |
| chr7 | 2968195 | 2968195 | Heterozygous | G | A | Novel | CARD11 | INTRONIC | |
| chr7 | 5239320 | 5239320 | Heterozygous | A | - | Novel | WIPI2 | INTRONIC | |
| chr7 | 5239320 | 5239320 | Heterozygous | A | - | Novel | WIPI2 | INTRONIC | |
| chr7 | 5239320 | 5239320 | Heterozygous | A | - | Novel | WIPI2 | INTRONIC | |
| chr7 | 5239320 | 5239320 | Heterozygous | A | - | Novel | WIPI2 | INTRONIC | |
| chr7 | 5330436 | 5330436 | Heterozygous | C | T | Novel | SLC29A4 | NON_SYNONYMI<S>CODING | |
| chr7 | 5330436 | 5330436 | Heterozygous | C | T | Novel | SLC29A4 | NON_SYNONYMI<S>CODING | |
| chr7 | 6026384 | 6026384 | Heterozygous | C | T | Novel | PMS2 | SPLICE_SITE | |
| chr7 | 6026384 | 6026384 | Heterozygous | C | T | Novel | PMS2 | SPLICE_SITE | |
| chr7 | 6037058 | 6037058 | Heterozygous | A | - | Novel | PMS2 | SPLICE_SITE | |
| chr7 | 6037058 | 6037058 | Heterozygous | A | - | Novel | PMS2 | SPLICE_SITE | |
| chr7 | 6064471 | 6064471 | Heterozygous | T | - | Novel | AMP2 | DOWNSTREAM | |
| chr7 | 6064471 | 6064471 | Heterozygous | T | - | Novel | AMP2 | DOWNSTREAM | |
| chr7 | 6064471 | 6064471 | Heterozygous | T | - | Novel | EIF2AK1 | INTRONIC | |
| chr7 | 6064471 | 6064471 | Heterozygous | T | - | Novel | EIF2AK1 | INTRONIC | |
| chr7 | 6068273 | 6068273 | Heterozygous | G | C | Novel | EIF2AK1 | INTRONIC | |
| chr7 | 6068273 | 6068273 | Heterozygous | G | C | Novel | EIF2AK1 | INTRONIC | |
| chr7 | 6080854 | 6080854 | Heterozygous | A | - | Novel | EIF2AK1 | SPLICE_SITE | |
| chr7 | 6080854 | 6080854 | Heterozygous | A | - | Novel | EIF2AK1 | SPLICE_SITE | |
| chr7 | 6179729 | 6179729 | Heterozygous | T | C | Novel | EIF2AK1 | SPLICE_SITE | |
| chr7 | 6183960 | 6183960 | Heterozygous | T | G | Novel | USP42 | INTRONIC | |
| chr7 | 11030275 | 11030275 | Heterozygous | T | - | Novel | PHF14 | INTRONIC | |
| chr7 | 11030275 | 11030275 | Heterozygous | T | - | Novel | PHF14 | INTRONIC | |
| chr7 | 11030275 | 11030275 | Heterozygous | T | - | Novel | PHF14 | INTRONIC | |
| chr7 | 14775822 | 14775822 | Heterozygous | G | - | Novel | DGKB | SPLICE_SITE | |
| chr7 | 14775822 | 14775822 | Heterozygous | G | - | Novel | DGKB | SPLICE_SITE | |
| chr7 | 15725798 | 15725800 | Heterozygous | TGG | --- | Novel | MEK2 | NON_SYNONYMI<S>CODING | |
| chr7 | 16502408 | 16502408 | Heterozygous | T | A | Novel | SOSTDC1 | NON_SYNONYMI<Q>->L | |
| chr7 | 16823022 | 16823022 | Heterozygous | T | - | Novel | TSPAN1L | INTRONIC | |
| chr7 | 18098091 | 18098091 | Heterozygous | A | G | Novel | PRPS1L1 | UPSTREAM | |
| chr7 | 19184524 | 19184524 | Heterozygous | G | A | Novel | FERD3L | NON_SYNONYMI<S>CODING | |
| chr7 | 19184761 | 19184761 | Heterozygous | T | C | Novel | FERD3L | NON_SYNONYMI<S>CODING | |
| chr7 | 23195557 | 23195557 | Homozygous | T | - | Novel | KLHL7 | INTRONIC | |
| chr7 | 23195557 | 23195557 | Homozygous | T | - | Novel | KLHL7 | INTRONIC | |
| chr7 | 2319 | | | | | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change | Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr7 | 33297109 | 33297110 | Heterozygous | CA | — | Novel | BBS9 | INTRONIC | | chr7 | 87774407 | 87774407 | Heterozygous | A | G | Novel | ADAM22 | INTRONIC | |
| chr7 | 33297109 | 33297110 | Heterozygous | CA | — | Novel | BBS9 | INTRONIC | | chr7 | 87778243 | 87778244 | Heterozygous | — | T | Novel | ADAM22 | INTRONIC | |
| chr7 | 33297109 | 33297110 | Heterozygous | CA | — | Novel | BBS9 | INTRONIC | | chr7 | 87778243 | 87778244 | Heterozygous | — | T | Novel | ADAM22 | INTRONIC | |
| chr7 | 33297109 | 33297110 | Heterozygous | CA | — | Novel | BBS9 | INTRONIC | | chr7 | 87778243 | 87778244 | Heterozygous | — | T | Novel | ADAM22 | INTRONIC | |
| chr7 | 35284707 | 35284707 | Heterozygous | T | C | Novel | TBX20 | INTRONIC | | chr7 | 87778243 | 87778244 | Heterozygous | — | T | Novel | ADAM22 | INTRONIC | |
| chr7 | 35284707 | 35284707 | Heterozygous | T | C | Novel | TBX20 | INTRONIC | | chr7 | 87778243 | 87778244 | Heterozygous | — | T | Novel | ADAM22 | INTRONIC | |
| chr7 | 37780436 | 37780436 | Heterozygous | G | A | Novel | GPR141 | SYNONYMOUS_CODING | | chr7 | 89867479 | 89867479 | Heterozygous | C | T | Novel | STEAP2 | DOWNSTREAM | |
| chr7 | 37954042 | 37954042 | Heterozygous | T | C | Novel | SFRP4 | NON_SYNONYMI-F | | chr7 | 89867479 | 89867479 | Heterozygous | C | T | Novel | STEAP2 | DOWNSTREAM | |
| chr7 | 38284737 | 38284737 | Heterozygous | T | C | Novel | | GENIC | | chr7 | 89867479 | 89867479 | Heterozygous | C | T | Novel | STEAP2 | DOWNSTREAM | |
| chr7 | 38305142 | 38305142 | Heterozygous | G | C | Novel | TARP | SYNONYMOUS_CODING | | chr7 | 90894459 | 90894460 | Heterozygous | — | CCG | Novel | FZD1 | NON_SYNONYMOUS_CODING | |
| chr7 | 38305142 | 38305142 | Heterozygous | G | C | Novel | TARP | 5PRIME_UTR | | chr7 | 91761050 | 91761051 | Heterozygous | — | T | Novel | CYP51A1 | INTRONIC | |
| chr7 | 38389410 | 38389410 | Homozygous | G | C | Novel | | GENIC | | chr7 | 91761050 | 91761051 | Heterozygous | — | T | Novel | CYP51A1 | INTRONIC | |
| chr7 | 38389319 | 38389319 | Heterozygous | T | G | Novel | | GENIC | | chr7 | 91774425 | 91774425 | Heterozygous | T | C | Novel | LOC401387 | INTRONIC | |
| chr7 | 39243942 | 39243942 | Heterozygous | T | G | Novel | | GENIC | | chr7 | 91793287 | 91793287 | Heterozygous | G | C | Novel | LOC401387 | SYNONYMOUS_CODING | |
| chr7 | 44012800 | 44012800 | Heterozygous | G | T | Novel | POLR2J4 | INTRONIC | | chr7 | 91924406 | 91924406 | Heterozygous | A | C | Novel | ANKIB1 | SYNONYMOUS_CODING | |
| chr7 | 44507433 | 44507433 | Heterozygous | A | C | Novel | NUDCD3 | INTRONIC | | chr7 | 92784432 | 92784432 | Heterozygous | C | A | Novel | SAMD9L | NON_SYNONYMI-R-W | |
| chr7 | 44735922 | 44735922 | Heterozygous | T | G | Novel | OGDH | INTRONIC | | chr7 | 93834322 | 93834322 | Heterozygous | C | A | Novel | BET1 | 5PRIME_UTR | |
| chr7 | 44735922 | 44735922 | Heterozygous | T | G | Novel | OGDH | INTRONIC | | chr7 | 94056847 | 94056847 | Heterozygous | C | — | Novel | COS1A2 | INTRONIC | |
| chr7 | 45776356 | 45776357 | Heterozygous | — | T | Novel | SEPT7P2 | INTRONIC | | chr7 | 94183941 | 94183941 | Heterozygous | C | A | Novel | CASD1 | INTRONIC | |
| chr7 | 47898222 | 47898223 | Heterozygous | — | G | Novel | PXD1L1 | INTRONIC | | chr7 | 95221928 | 95221928 | Heterozygous | A | — | Novel | PKA1 | INTRONIC | |
| chr7 | 48065498 | 48065498 | Heterozygous | G | A | Novel | SUN3 | NON_SYNONYMI-L-F | | chr7 | 95775776 | 95775777 | Heterozygous | — | A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48065498 | 48065498 | Heterozygous | G | A | Novel | SUN3 | NON_SYNONYMI-L-F | | chr7 | 95775776 | 95775777 | Heterozygous | — | A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48412113 | 48412114 | Heterozygous | AA | — | Novel | ABCA13 | INTRONIC | | chr7 | 95775776 | 95775777 | Heterozygous | — | A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48412113 | 48412114 | Heterozygous | AA | -A | Novel | ABCA13 | INTRONIC | | chr7 | 95775849 | 95775849 | Heterozygous | A | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48567714 | 48567714 | Heterozygous | A | G | Novel | ABCA13 | INTRONIC | | chr7 | 95775849 | 95775849 | Heterozygous | A | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48684186 | 48684188 | Heterozygous | TTT | — | Novel | ABCA13 | INTRONIC | | chr7 | 95775849 | 95775849 | Heterozygous | A | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48684186 | 48684188 | Heterozygous | TTT | -TT | Novel | ABCA13 | INTRONIC | | chr7 | 95818865 | 95818866 | Heterozygous | AA | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 48684186 | 48684188 | Heterozygous | TTT | -T | Novel | ABCA13 | INTRONIC | | chr7 | 95818865 | 95818866 | Heterozygous | AA | -A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 50571603 | 50571603 | Heterozygous | G | A | Novel | DDC | INTRONIC | | chr7 | 95818865 | 95818866 | Heterozygous | AA | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 50571603 | 50571603 | Heterozygous | G | A | Novel | DDC | INTRONIC | | chr7 | 95818865 | 95818866 | Heterozygous | AA | -A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 54610518 | 54610518 | Heterozygous | T | C | Novel | VSTM2A | | | chr7 | 95818865 | 95818866 | Heterozygous | AA | — | Novel | SLC25A13 | INTRONIC | |
| chr7 | 55863545 | 55863546 | Heterozygous | — | CAAT | Novel | SEPT14 | 3PRIME_UTR | | chr7 | 95818865 | 95818866 | Heterozygous | AA | -A | Novel | SLC25A13 | INTRONIC | |
| chr7 | 63680133 | 63680133 | Heterozygous | T | A | Novel | ZNF735 | EXONIC | | chr7 | 98115477 | 98115478 | Heterozygous | — | T | Novel | | GENIC | |
| chr7 | 63796823 | 63796823 | Heterozygous | T | A | Novel | ZNF736 | INTRONIC | | chr7 | 97937272 | 97937272 | Heterozygous | T | A | Novel | BAIAP2L1 | INTRONIC | |
| chr7 | 64169017 | 64169018 | Heterozygous | — | A | Novel | ZNF107 | FRAMESHIFT_CODING | | chr7 | 98636204 | 98636204 | Heterozygous | T | C | Novel | SMURF1 | INTRONIC | |
| chr7 | 64169017 | 64169018 | Heterozygous | — | A | Novel | ZNF107 | FRAMESHIFT_CODING | | chr7 | 98636204 | 98636204 | Heterozygous | T | C | Novel | SMURF1 | INTRONIC | |
| chr7 | 84275471 | 84275471 | Heterozygous | T | — | Novel | ZNF138 | INTRONIC | | chr7 | 98649756 | 98649756 | Heterozygous | A | — | Novel | SMURF1 | INTRONIC | |
| chr7 | 84275471 | 84275471 | Heterozygous | T | — | Novel | ZNF138 | INTRONIC | | chr7 | 98649756 | 98649756 | Heterozygous | A | — | Novel | SMURF1 | INTRONIC | |
| chr7 | 84275471 | 84275471 | Heterozygous | T | — | Novel | ZNF138 | INTRONIC | | chr7 | 99662136 | 99662136 | Heterozygous | G | A | Novel | ZSCAN21 | NON_SYNONYMI-G-R | |
| chr7 | 84275471 | 84275471 | Heterozygous | T | — | Novel | ZNF138 | INTRONIC | | chr7 | 99662136 | 99662136 | Heterozygous | G | A | Novel | ZNF3 | 3PRIME_UTR | |
| chr7 | 85444359 | 85444360 | Heterozygous | — | GA | Novel | GUSB | INTRONIC | | chr7 | 100034050 | 100034050 | Heterozygous | G | A | Novel | C7orf47 | 5PRIME_UTR | |
| chr7 | 86703568 | 86703568 | Heterozygous | G | T | Novel | TYW1 | 3PRIME_UTR | | chr7 | 100153102 | 100153102 | Heterozygous | A | C | Novel | AGF62 | INTRONIC | |
| chr7 | 70238520 | 70238520 | Heterozygous | C | T | Novel | AUTS2 | INTRONIC | | chr7 | 100371476 | 100371477 | Homozygous | — | G | Novel | ZAN | EXONIC | |
| chr7 | 70238520 | 70238520 | Heterozygous | C | T | Novel | AUTS2 | INTRONIC | | chr7 | 100371476 | 100371477 | Homozygous | — | G | Novel | ZAN | EXONIC | |
| chr7 | 72413618 | 72413618 | Heterozygous | T | C | Novel | POM121 | NON_SYNONYMI-T | | chr7 | 100389789 | 100389789 | Heterozygous | A | C | Novel | ZAN | INTRONIC | |
| chr7 | 72413649 | 72413649 | Heterozygous | G | A | Novel | POM121 | SYNONYMOUS_CODING | | chr7 | 100389789 | 100389789 | Heterozygous | A | C | Novel | ZAN | INTRONIC | |
| chr7 | 72413667 | 72413667 | Heterozygous | G | C | Novel | POM121 | SYNONYMOUS_CODING | | chr7 | 100643843 | 100643843 | Heterozygous | G | A | Novel | MUC12 | SYNONYMOUS_CODING | |
| chr7 | 73638035 | 73638035 | Heterozygous | A | G | Novel | LAT2 | INTRONIC | | chr7 | 100645731 | 100645731 | Heterozygous | C | T | Novel | MUC12 | NON_SYNONYMI-E-K | |
| chr7 | 73638035 | 73638035 | Heterozygous | A | G | Novel | LAT2 | INTRONIC | | chr7 | 100731925 | 100731925 | Heterozygous | C | T | Novel | TRIM56 | SYNONYMOUS_CODING | |
| chr7 | 73638035 | 73638035 | Heterozygous | A | G | Novel | LAT2 | INTRONIC | | chr7 | 100866058 | 100866058 | Heterozygous | — | AGGC | Novel | ZNFHT1 | SPICE_SITE | |
| chr7 | 73731906 | 73731906 | Heterozygous | C | T | Novel | CLIP2 | SYNONYMOUS_CODING | | chr7 | 101126481 | 101126481 | Heterozygous | T | — | Novel | EMID2 | INTRONIC | |
| chr7 | 73731906 | 73731906 | Heterozygous | C | T | Novel | CLIP2 | SYNONYMOUS_CODING | | chr7 | 101877468 | 101877468 | Heterozygous | C | T | Novel | CUX1 | INTRONIC | |
| chr7 | 73800945 | 73800945 | Heterozygous | C | T | Novel | CLIP2 | INTRONIC | | chr7 | 101877468 | 101877468 | Heterozygous | C | T | Novel | CUX1 | SYNONYMOUS_CODING | |
| chr7 | 73800945 | 73800945 | Heterozygous | C | T | Novel | CLIP2 | INTRONIC | | chr7 | 101877468 | 101877468 | Heterozygous | C | T | Novel | CUX1 | INTRONIC | |
| chr7 | 73973439 | 73973439 | Heterozygous | A | — | Novel | GTF2IRD1 | INTRONIC | | chr7 | 102212880 | 102212880 | Heterozygous | G | C | Novel | POLR2J3 | INTRONIC | |
| chr7 | 73973439 | 73973439 | Heterozygous | A | — | Novel | GTF2IRD1 | INTRONIC | | chr7 | 102212939 | 102212939 | Heterozygous | G | C | Novel | POLR2J3 | NON_SYNONYMI-F-L | |
| chr7 | 75123393 | 75123393 | Heterozygous | G | A | Novel | SPDYE5 | UPSTREAM | | chr7 | 102518914 | 102518914 | Heterozygous | A | G | Novel | FBXL13 | INTRONIC | |
| chr7 | 78239503 | 78239504 | Heterozygous | — | C | Novel | POMZP3 | 3PRIME_UTR | | chr7 | 102518914 | 102518914 | Heterozygous | A | G | Novel | FBXL13 | INTRONIC | |
| chr7 | 78239503 | 78239504 | Heterozygous | — | C | Novel | POMZP3 | 3PRIME_UTR | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 76631531 | 76631531 | Heterozygous | G | A | Novel | PMS2L11 | EXONIC | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 77584159 | 77584160 | Heterozygous | — | T | Novel | PHTF2 | INTRONIC | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 77584159 | 77584160 | Heterozygous | — | T | Novel | PHTF2 | INTRONIC | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 77584159 | 77584160 | Heterozygous | — | T | Novel | PHTF2 | INTRONIC | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 86468516 | 86468516 | Heterozygous | C | T | Novel | GRM3 | SYNONYMOUS_CODING | | chr7 | 102727052 | 102727052 | Heterozygous | T | — | Novel | ARMG10 | INTRONIC | |
| chr7 | 86802804 | 86802805 | Heterozygous | — | TTTTG | Novel | DMTF1 | INTRONIC | | chr7 | 103038295 | 103038295 | Heterozygous | T | C | Novel | SLC26A5 | INTRONIC | |
| chr7 | 86802804 | 86802805 | Heterozygous | — | TTTTG | Novel | DMTF1 | INTRONIC | | chr7 | 103038295 | 103038295 | Heterozygous | T | C | Novel | SLC26A5 | INTRONIC | |
| chr7 | 86802804 | 86802805 | Heterozygous | — | TTTTG | Novel | DMTF1 | INTRONIC | | chr7 | 103038295 | 103038295 | Heterozygous | T | C | Novel | SLC26A5 | INTRONIC | |
| chr7 | 86802804 | 86802805 | Heterozygous | — | TTTTG | Novel | DMTF1 | INTRONIC | | chr7 | 103038295 | 103038295 | Heterozygous | T | C | Novel | SLC26A5 | INTRONIC | |
| chr7 | 86802804 | 86802805 | Heterozygous | — | TTTTG | Novel | DMTF1 | INTRONIC | | chr7 | 103237008 | 103237008 | Heterozygous | T | G | Novel | RELN | NON_SYNONYMI-K-T | |
| chr7 | 86988663 | 86988663 | Heterozygous | T | C | Novel | CROT | INTRONIC | | chr7 | 103237008 | 103237008 | Heterozygous | T | G | Novel | RELN | NON_SYNONYMI-K-T | |
| chr7 | 86988663 | 86988663 | Heterozygous | T | C | Novel | CROT | EXONIC | | chr7 | 104719472 | 104719472 | Heterozygous | A | G | Novel | MLL5 | INTRONIC | |
| chr7 | 86988663 | 86988663 | Heterozygous | T | C | Novel | CROT | INTRONIC | | chr7 | 104719472 | 104719472 | Heterozygous | A | G | Novel | MLL5 | INTRONIC | |
| chr7 | 87528550 | 87528551 | Heterozygous | — | A | Novel | DBF4 | INTRONIC | | chr7 | | | | | | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-------------------|-----------|----------|----------------------|-------------|---------------------|-------------------|
| chr7 | 107576173 | 107576173 | Heterozygous T | C | Novel | | LAMB1 | INTRONIC | |
| chr7 | 107621308 | 107621308 | Heterozygous T | - | Novel | | LAMB1 | INTRONIC | |
| chr7 | 107817110 | 107817111 | Heterozygous - | A | Novel | | NRCAM | INTRONIC | |
| chr7 | 107817110 | 107817111 | Heterozygous - | A | Novel | | NRCAM | INTRONIC | |
| chr7 | 107817110 | 107817111 | Heterozygous - | A | Novel | | NRCAM | INTRONIC | |
| chr7 | 107817110 | 107817111 | Heterozygous - | A | Novel | | NRCAM | INTRONIC | |
| chr7 | 114563517 | 114563517 | Heterozygous T | A | Novel | | MDFC | INTRONIC | |
| chr7 | 114563517 | 114563517 | Heterozygous T | A | Novel | | MDFC | NON_SYNONYMI-L->H | |
| chr7 | 114563517 | 114563517 | Heterozygous T | A | Novel | | MDFC | INTRONIC | |
| chr7 | 115892595 | 115892595 | Heterozygous T | C | Novel | | TES | INTRONIC | |
| chr7 | 115892595 | 115892595 | Heterozygous T | C | Novel | | TES | INTRONIC | |
| chr7 | 124475296 | 124475297 | Heterozygous - | AAACA | Novel | | POT1 | INTRONIC | |
| chr7 | 124475296 | 124475297 | Heterozygous - | AAACA | Novel | | POT1 | INTRONIC | |
| chr7 | 124475296 | 124475297 | Heterozygous - | AAACA | Novel | | POT1 | INTRONIC | |
| chr7 | 124475296 | 124475297 | Heterozygous - | AAACA | Novel | | POT1 | INTRONIC | |
| chr7 | 124475296 | 124475297 | Heterozygous - | AAACA | Novel | | POT1 | INTRONIC | |
| chr7 | 124482947 | 124482947 | Heterozygous T | C | Novel | | POT1 | EXONIC | |
| chr7 | 124482947 | 124482947 | Heterozygous T | C | Novel | | POT1 | EXONIC | |
| chr7 | 124482947 | 124482947 | Heterozygous T | C | Novel | | POT1 | EXONIC | |
| chr7 | 124482947 | 124482947 | Heterozygous T | C | Novel | | POT1 | EXONIC | |
| chr7 | 124537278 | 124537281 | Heterozygous AAAG | ----- | Novel | | POT1 | INTRONIC | |
| chr7 | 124537278 | 124537281 | Heterozygous AAAG | ----- | Novel | | POT1 | INTRONIC | |
| chr7 | 124537278 | 124537281 | Heterozygous AAAG | ----- | Novel | | POT1 | INTRONIC | |
| chr7 | 124537278 | 124537281 | Heterozygous AAAG | ----- | Novel | | POT1 | INTRONIC | |
| chr7 | 124537278 | 124537281 | Heterozygous AAAG | ----- | Novel | | POT1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128035131 | 128035131 | Heterozygous C | - | Novel | | IMPDI1 | INTRONIC | |
| chr7 | 128312541 | 128312541 | Heterozygous G | T | Novel | | FAM71F2 | NON_SYNONYMI-Q->E | |
| chr7 | 128312541 | 128312541 | Heterozygous G | T | Novel | | FAM71F2 | NON_SYNONYMI-Q->E | |
| chr7 | 128315672 | 128315673 | Heterozygous --- | TTC | Novel | | FAM71F2 | INTRONIC | |
| chr7 | 128315672 | 128315673 | Heterozygous --- | TTC | Novel | | FAM71F2 | INTRONIC | |
| chr7 | 128317932 | 128317933 | Heterozygous TG | --- | Novel | | FAM71F2 | INTRONIC | |
| chr7 | 128317932 | 128317933 | Heterozygous TG | --- | Novel | | FAM71F2 | INTRONIC | |
| chr7 | 128413998 | 128413998 | Heterozygous T | - | Novel | | OPN1SW | INTRONIC | |
| chr7 | 128482294 | 128482294 | Heterozygous G | A | Novel | | FLNC | NON_SYNONYMI-G->S | |
| chr7 | 128482294 | 128482294 | Heterozygous G | A | Novel | | FLNC | NON_SYNONYMI-G->S | |
| chr7 | 129592276 | 129592276 | Heterozygous G | - | Novel | | UBE2H | INTRONIC | |
| chr7 | 129592276 | 129592276 | Heterozygous G | - | Novel | | UBE2H | INTRONIC | |
| chr7 | 132755062 | 132755062 | Heterozygous T | C | Novel | | CHCHD3 | INTRONIC | |
| chr7 | 133041032 | 133041032 | Heterozygous G | T | Novel | | EXOC4 | INTRONIC | |
| chr7 | 133041032 | 133041032 | Heterozygous G | T | Novel | | EXOC4 | INTRONIC | |
| chr7 | 137294228 | 137294228 | Heterozygous A | G | Novel | | DGKI | INTRONIC | |
| chr7 | 138189190 | 138189190 | Heterozygous C | T | Novel | | TRIM24 | INTRONIC | |
| chr7 | 138189190 | 138189190 | Heterozygous C | T | Novel | | TRIM24 | INTRONIC | |
| chr7 | 138417598 | 138417597 | Heterozygous - | A | Novel | | ATP6VOA4 | INTRONIC | |
| chr7 | 138417598 | 138417597 | Heterozygous - | A | Novel | | ATP6VOA4 | INTRONIC | |
| chr7 | 138417598 | 138417597 | Heterozygous - | A | Novel | | ATP6VOA4 | INTRONIC | |
| chr7 | 138857241 | 138857244 | Heterozygous TATG | ---- | Novel | | UBIN2 | INTRONIC | |
| chr7 | 139416537 | 139416537 | Heterozygous G | A | Novel | | GENIC | | |
| chr7 | 139796765 | 139796765 | Heterozygous G | T | Novel | | JHDM1D | NON_SYNONYMI-S->Y | |
| chr7 | 140395531 | 140395531 | Heterozygous G | C | Novel | | ADCK2 | DOWNSTREAM | |
| chr7 | 140395531 | 140395531 | Heterozygous G | C | Novel | | LOC1001347 | EXONIC | |
| chr7 | 140395531 | 140395531 | Heterozygous G | C | Novel | | NDUFB2 | UPSTREAM | |
| chr7 | 141708470 | 141708470 | Heterozygous C | T | Novel | | MGAM | STOP_GAINED_R->Stop | |
| chr7 | 141719233 | 141719233 | Heterozygous A | T | Novel | | MGAM | INTRONIC | |
| chr7 | 141759229 | 141759229 | Heterozygous C | T | Novel | | MGAM | INTRONIC | |
| chr7 | 141885945 | 141885945 | Heterozygous T | - | Novel | | LOC10012461 | INTRONIC | |
| chr7 | 141896632 | 141896632 | Heterozygous G | A | Novel | | LOC10012461 | INTRONIC | |
| chr7 | 141899660 | 141899661 | Heterozygous - | T | Novel | | LOC10012461 | INTRONIC | |
| chr7 | 141946852 | 141946852 | Homozygous G | A | Novel | | GENIC | | |
| chr7 | 141971083 | 141971083 | Homozygous A | C | Novel | | GENIC | | |
| chr7 | 142139271 | 142139272 | Homozygous TG | CA | Novel | | GENIC | | |
| chr7 | 142139277 | 142139277 | Heterozygous G | T | Novel | | GENIC | | |
| chr7 | 142149349 | 142149349 | Homozygous A | C | Novel | | GENIC | | |
| chr7 | 142334567 | 142334567 | Homozygous T | C | Novel | | GENIC | | |
| chr7 | 142334606 | 142334606 | Heterozygous G | A | Novel | | GENIC | | |
| chr7 | 142379096 | 142379096 | Homozygous T | C | Novel | | GENIC | | |
| chr7 | 142460261 | 142460261 | Homozygous T | A | Novel | | PRSS1 | INTRONIC | |
| chr7 | 142471799 | 142471799 | Heterozygous T | C | Novel | | GENIC | | |
| chr7 | 142471805 | 142471805 | Heterozygous A | C | Novel | | GENIC | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|-------------------|-----------|----------|----------------------|-------------|---------------------|-------------------|
| chr7 | 142830638 | 142830638 | Heterozygous T | C | Novel | | TRPV5 | 5PRIME_UTR | |
| chr7 | 142858741 | 142858741 | Heterozygous C | - | Novel | | KEL | INTRONIC | |
| chr7 | 143208738 | 143208738 | Heterozygous C | - | Novel | | | GENIC | |
| chr7 | 144707913 | 144707913 | Heterozygous C | - | Novel | | | GENIC | |
| chr7 | 148080865 | 148080865 | Heterozygous G | A | Novel | | CNTNAP2 | NON_SYNONYMI-CODING | |
| chr7 | 148700818 | 148700818 | Heterozygous G | G | Novel | | PDIA4 | 3PRIME_UTR | |
| chr7 | 150489244 | 150489244 | Heterozygous C | T | Novel | | LOC10012855 | DOWNSTREAM | |
| chr7 | 150489244 | 150489244 | Heterozygous C | T | Novel | | TMEM176B | NON_SYNONYMI-R->H | |
| chr7 | 150489244 | 150489244 | Heterozygous C | T | Novel | | TMEM176B | NON_SYNONYMI-R->H | |
| chr7 | 150489244 | 150489244 | Heterozygous C | T | Novel | | TMEM176B | NON_SYNONYMI-R->H | |
| chr7 | 150489244 | 150489244 | Heterozygous C | T | Novel | | TMEM176B | NON_SYNONYMI-R->H | |
| chr7 | 150918587 | 150918587 | Heterozygous T | - | Novel | | ABCF2 | INTRONIC | |
| chr7 | 150918587 | 150918587 | Heterozygous T | - | Novel | | ABCF2 | INTRONIC | |
| chr7 | 151843868 | 151843868 | Heterozygous - | A | Novel | | MLL3 | INTRONIC | |
| chr7 | 151882623 | 151882624 | Heterozygous AG | --- | Novel | | MLL3 | INTRONIC | |
| chr7 | 151933181 | 151933181 | Heterozygous C | G | Novel | | MLL3 | INTRONIC | |
| chr7 | 151945071 | 151945072 | Heterozygous - | T | Novel | | MLL3 | FRAMESHIFT_CODING | |
| chr7 | 151971053 | 151971053 | Heterozygous A | - | Novel | | MLL3 | INTRONIC | |
| chr7 | 158415690 | 158415690 | Heterozygous C | A | Novel | | GENIC | | |
| chr7 | 158441259 | 158441259 | Heterozygous C | G | Novel | | NCAPG2 | INTRONIC | |
| chr7 | 158441529 | 158441529 | Heterozygous T | C | Novel | | NCAPG2 | INTRONIC | |
| chr7 | 158441571 | 158441571 | Heterozygous T | C | Novel | | NCAPG2 | INTRONIC | |
| chr8 | 1874593 | 1874593 | Heterozygous G | A | Novel | | ARHGAP10 | NON_SYNONYMI-CODING | |
| chr8 | 2033459 | 2033459 | Heterozygous C | T | Novel | | MYO2 | NON_SYNONYMI-CODING | |
| chr8 | 6302541 | 6302541 | Heterozygous C | A | Novel | | MCPH1 | NON_SYNONYMI-S->Y | |
| chr8 | 6302541 | 6302541 | Heterozygous C | A | Novel | | MCPH1 | NON_SYNONYMI-S->Y | |
| chr8 | 6302541 | 6302541 | Heterozygous C | A | Novel | | MCPH1 | NON_SYNONYMI-S->Y | |
| chr8 | 6805151 | 6805151 | Homozygous T | G | Novel | | AGPAT5 | INTRONIC | |
| chr8 | 6805216 | 6805216 | Homozygous A | T | Novel | | AGPAT5 | NON_SYNONYMI-CODING | |
| chr8 | 9598577 | 9598577 | Homozygous A | G | Novel | | TNKS | INTRONIC | |
| chr8 | 9912220 | 9912220 | Homozygous C | A | Novel | | MSRA | INTRONIC | |
| chr8 | 9912220 | 9912220 | Homozygous C | A | Novel | | MSRA | INTRONIC | |
| chr8 | 10532162 | 10532162 | Homozygous C | G | Novel | | C8orf74 | NON_SYNONYMI-Q->E | |
| chr8 | 12042865 | 12042865 | Heterozygous G | - | Novel | | FAM86B1 | INTRONIC | |
| chr8 | 12042865 | 12042865 | Heterozygous G | - | Novel | | FAM86B1 | INTRONIC | |
| chr8 | 16921560 | 16921560 | Heterozygous A | G | Novel | | ELFIA2 | INTRONIC | |
| chr8 | 17401169 | 17401169 | Heterozygous C | T | Novel | | SLC7A2 | NON_SYNONYMI-CODING | |
| chr8 | 17401169 | 17401169 | Heterozygous C | T | Novel | | SLC7A2 | NON_SYNONYMI-CODING | |
| chr8 | 17406368 | 17406368 | Heterozygous T | - | Novel | | SLC7A2 | INTRONIC | |
| chr8 | 17406368 | 17406368 | Heterozygous T | - | Novel | | SLC7A2 | INTRONIC | |
| chr8 | 17446895 | 17446895 | Homozygous A | - | Novel | | PDGFRL | INTRONIC | |
| chr8 | 20072542 | 20072542 | Heterozygous A | G | Novel | | ATP6VB12 | INTRONIC | |
| chr8 | 21768381 | 21768384 | Heterozygous AGAG | ---- | Novel | | DKO2 | INTRONIC | |
| chr8 | 22463159 | 22463159 | Heterozygous G | T | Novel | | C8orf58 | DOWNSTREAM | |
| chr8 | 22463159 | 22463159 | Heterozygous G | T | Novel | | KIAA1967 | INTRONIC | |
| chr8 | 22463159 | 22463159 | Heterozygous G | T | Novel | | KIAA1967 | INTRONIC | |
| chr8 | 22464872 | 22464872 | Heterozygous A | T | Novel | | KIAA1967 | INTRONIC | |
| chr8 | 22464872 | 22464872 | Heterozygous A | T | Novel | | KIAA1967 | INTRONIC | |
| chr8 | 22472960 | 22472960 | Heterozygous T | C | Novel | | KIAA1967 | EXONIC | |
| chr8 | 22472960 | 22472960 | Heterozygous T | C | Novel | | KIAA1967 | NON_SYNONYMI-Y->H | |
| chr8 | 22481976 | 22481976 | Heterozygous C | T | Novel | | BIN3 | INTRONIC | |
| chr8 | 22502372 | 22502372 | Heterozygous C | T | Novel | | BIN3 | INTRONIC | |
| chr8 | 22974370 | 22974370 | Heterozygous G | A | Novel | | TNFRSF10C | NON_SYNONYMI-CODING | |
| chr8 | 24810483 | 24810483 | Heterozygous C | T | Novel | | NEFL | EXONIC | |
| chr8 | 25200059 | 25200059 | Heterozygous A | G | Novel | | DOCK5 | INTRONIC | |
| chr8 | 25247822 | 25247822 | Heterozygous A | - | Novel | | DOCK5 | INTRONIC | |
| chr8 | 25897666 | 25897666 | Heterozygous G | C | Novel | | EBF2 | INTRONIC | |
| chr8 | 26869311 | 26869311 | Heterozygous G | C | Novel | | GENIC | | |
| chr8 | 26869323 | 26869323 | Heterozygous C | T | Novel | | GENIC | | |
| chr8 | 27668678 | 27668678 | Heterozygous G | - | Novel | | PBK | INTRONIC | |
| chr8 | 29053182 | 29053182 | Heterozygous A | - | Novel | | KIP13B | INTRONIC | |
| chr8 | 30933849 | 30933849 | Heterozygous G | - | Novel | | WRN | INTRONIC | |
| chr8 | 38261902 | 38261902 | Heterozygous A | - | Novel | | LETM2 | INTRONIC | |
| chr8 | 38884345 | 38884346 | Heterozygous - | T | Novel | | ADAM9 | INTRONIC | |
| chr8 | 38884345 | 38884346 | Heterozygous - | T | Novel | | ADAM9 | INTRONIC | |
| chr8 | 38884345 | 38884346 | Heterozygous - | T | Novel | | ADAM9 | INTRONIC | |
| chr8 | 38884345 | 38884346 | Heterozygous - | T | Novel | | ADAM9 | INTRONIC | |
| chr8 | 39114677 | 39114 | | | | | | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr8 | 39506081 | 39506081 | Heterozygous | T | C | Novel | ADAM18 | INTRONIC | |
| chr8 | 39613315 | 39613316 | Heterozygous | --- | TT | Novel | ADAM2 | FRAMESHIFT_CODING | |
| chr8 | 41615739 | 41615739 | Heterozygous | A | C | Novel | ANK1 | INTRONIC | |
| chr8 | 41615739 | 41615739 | Heterozygous | A | C | Novel | ANK1 | INTRONIC | |
| chr8 | 41615739 | 41615739 | Heterozygous | A | C | Novel | ANK1 | INTRONIC | |
| chr8 | 41615739 | 41615739 | Heterozygous | A | C | Novel | ANK1 | INTRONIC | |
| chr8 | 41615739 | 41615739 | Heterozygous | A | C | Novel | ANK1 | INTRONIC | |
| chr8 | 41794797 | 41794799 | Heterozygous | TCT | --- | Novel | MYST3 | NON_SYNONYMOUS_CODING | |
| chr8 | 41794797 | 41794799 | Heterozygous | TCT | --- | Novel | MYST3 | NON_SYNONYMOUS_CODING | |
| chr8 | 41794797 | 41794799 | Heterozygous | TCT | --- | Novel | MYST3 | NON_SYNONYMOUS_CODING | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42177044 | 42177044 | Heterozygous | C | T | Novel | IKBK8 | INTRONIC | |
| chr8 | 42798335 | 42798335 | Heterozygous | T | - | Novel | HCSNAT | INTRONIC | |
| chr8 | 43002053 | 43002053 | Heterozygous | T | - | Novel | TMEM88 | SYNONYMOUS_CODING | |
| chr8 | 58668879 | 58668879 | Heterozygous | A | G | Novel | NMSMAF | INTRONIC | |
| chr8 | 58501283 | 58501283 | Heterozygous | C | A | Novel | NMSMAF | INTRONIC | |
| chr8 | 58501283 | 58501283 | Heterozygous | C | A | Novel | NMSMAF | INTRONIC | |
| chr8 | 58535859 | 58535861 | Heterozygous | ---TT | CGAA | Novel | NMSMAF | INTRONIC | |
| chr8 | 58535859 | 58535861 | Heterozygous | ---TT | CGAA | Novel | NMSMAF | INTRONIC | |
| chr8 | 70536515 | 70536516 | Heterozygous | - | A | Novel | SULF1 | INTRONIC | |
| chr8 | 70536515 | 70536516 | Heterozygous | - | A | Novel | SULF1 | INTRONIC | |
| chr8 | 70536515 | 70536516 | Heterozygous | - | A | Novel | SULF1 | INTRONIC | |
| chr8 | 70536515 | 70536516 | Heterozygous | - | A | Novel | SULF1 | INTRONIC | |
| chr8 | 72211437 | 72211437 | Heterozygous | C | A | Novel | EYA1 | NON_SYNONYMI_G->V | |
| chr8 | 72211437 | 72211437 | Heterozygous | C | A | Novel | EYA1 | NON_SYNONYMI_G->V | |
| chr8 | 72211437 | 72211437 | Heterozygous | C | A | Novel | EYA1 | NON_SYNONYMI_G->V | |
| chr8 | 72211437 | 72211437 | Heterozygous | C | A | Novel | EYA1 | NON_SYNONYMI_G->V | |
| chr8 | 72989979 | 72989979 | Heterozygous | T | A | Novel | LOC10013281 | DOWNSTREAM | |
| chr8 | 72989979 | 72989979 | Heterozygous | T | A | Novel | LOC10013281 | DOWNSTREAM | |
| chr8 | 72989979 | 72989979 | Heterozygous | T | A | Novel | TRPA1 | NON_SYNONYMI_N->Y | |
| chr8 | 74898836 | 74898837 | Heterozygous | - | T | Novel | TMEM70 | DOWNSTREAM | |
| chr8 | 74898836 | 74898837 | Heterozygous | - | T | Novel | TMEM70 | DOWNSTREAM | |
| chr8 | 74898836 | 74898837 | Heterozygous | - | T | Novel | TMEM70 | DOWNSTREAM | |
| chr8 | 79629738 | 79629738 | Heterozygous | C | A | Novel | FAM184A | 3PRIME_UTR | |
| chr8 | 80831394 | 80831394 | Heterozygous | A | - | Novel | MRPS28 | INTRONIC | |
| chr8 | 82355738 | 82355738 | Heterozygous | A | G | Novel | PMP2 | INTRONIC | |
| chr8 | 91929653 | 91929653 | Heterozygous | A | - | Novel | NECAB1 | INTRONIC | |
| chr8 | 92169542 | 92169542 | Heterozygous | C | T | Novel | LRRRC89 | INTRONIC | |
| chr8 | 95206774 | 95206774 | Heterozygous | A | G | Novel | GDH17 | INTRONIC | |
| chr8 | 95206774 | 95206774 | Heterozygous | A | G | Novel | GDH17 | INTRONIC | |
| chr8 | 95547005 | 95547006 | Heterozygous | - | T | Novel | KIAA1429 | INTRONIC | |
| chr8 | 95547005 | 95547006 | Heterozygous | - | T | Novel | KIAA1429 | INTRONIC | |
| chr8 | 95851786 | 95851786 | Heterozygous | T | - | Novel | INTS8 | INTRONIC | |
| chr8 | 98047806 | 98047807 | Heterozygous | - | A | Novel | C9orf88 | ESSENTIAL_SPLICE_SITE | |
| chr8 | 98712108 | 98712108 | Heterozygous | T | - | Novel | MTDH | INTRONIC | |
| chr8 | 98042892 | 98042893 | Heterozygous | - | T | Novel | MATN2 | INTRONIC | |
| chr8 | 98042892 | 98042893 | Heterozygous | - | T | Novel | MATN2 | INTRONIC | |
| chr8 | 99055037 | 99055037 | Heterozygous | C | T | Novel | RPL30 | INTRONIC | |
| chr8 | 99055037 | 99055037 | Heterozygous | C | T | Novel | SNORA72 | UPSTREAM | |
| chr8 | 100287518 | 100287518 | Heterozygous | T | - | Novel | VPS13B | INTRONIC | |
| chr8 | 100287518 | 100287518 | Heterozygous | T | - | Novel | VPS13B | INTRONIC | |
| chr8 | 100514125 | 100514128 | Heterozygous | TCCC | --- | Novel | VPS13B | INTRONIC | |
| chr8 | 100514125 | 100514128 | Heterozygous | TCCC | --- | Novel | VPS13B | INTRONIC | |
| chr8 | 100514154 | 100514154 | Heterozygous | C | T | Novel | VPS13B | INTRONIC | |
| chr8 | 100514154 | 100514154 | Heterozygous | C | T | Novel | VPS13B | INTRONIC | |
| chr8 | 101237471 | 101237471 | Heterozygous | C | T | Novel | SPAG1 | NON_SYNONYMI_P->S | |
| chr8 | 101237471 | 101237471 | Heterozygous | C | T | Novel | SPAG1 | NON_SYNONYMI_P->S | |
| chr8 | 106573525 | 106573525 | Heterozygous | A | - | Novel | ZFPM2 | INTRONIC | |
| chr8 | 116616281 | 116616281 | Heterozygous | C | T | Novel | TRPS1 | NON_SYNONYMI_V->I | |
| chr8 | 117954966 | 117954966 | Heterozygous | G | A | Novel | C9orf85 | 3PRIME_UTR | |
| chr8 | 120428892 | 120428892 | Heterozygous | T | G | Novel | NOV | INTRONIC | |
| chr8 | 121530385 | 121530386 | Heterozygous | TT | --- | Novel | MTBP | INTRONIC | |
| chr8 | 124358592 | 124358592 | Heterozygous | T | C | Novel | ATAD2 | INTRONIC | |
| chr8 | 126068846 | 126068846 | Heterozygous | T | G | Novel | KIAA0196 | INTRONIC | |
| chr8 | 130783857 | 130783857 | Heterozygous | C | A | Novel | GSDMC | INTRONIC | |
| chr8 | 131200298 | 131200299 | Heterozygous | - | A | Novel | ASAP1 | INTRONIC | |
| chr8 | 132966046 | 132966046 | Heterozygous | T | - | Novel | EFR3A | INTRONIC | |
| chr8 | 133146498 | 133146498 | Heterozygous | T | C | Novel | KCNQ3 | INTRONIC | |
| chr8 | 133789555 | 133789555 | Heterozygous | GA | --- | Novel | TMEM71 | INTRONIC | |
| chr8 | 133789555 | 133789555 | Heterozygous | GA | --- | Novel | TMEM71 | INTRONIC | |
| chr8 | 133978702 | 133978703 | Heterozygous | TC | --- | Novel | TG | INTRONIC | |
| chr8 | 133978702 | 133978703 | Heterozygous | TC | --- | Novel | TG | INTRONIC | |
| chr8 | 134082271 | 134082271 | Heterozygous | T | G | Novel | TG | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr8 | 134082271 | 134082271 | Heterozygous | T | G | Novel | SLA | INTRONIC | |
| chr8 | 134082271 | 134082271 | Heterozygous | T | G | Novel | SLA | INTRONIC | |
| chr8 | 134082271 | 134082271 | Heterozygous | T | G | Novel | SLA | INTRONIC | |
| chr8 | 135615238 | 135615238 | Heterozygous | A | G | Novel | ZFAT | INTRONIC | |
| chr8 | 135615238 | 135615238 | Heterozygous | A | G | Novel | ZFAT | INTRONIC | |
| chr8 | 135615238 | 135615238 | Heterozygous | A | G | Novel | ZFAT | INTRONIC | |
| chr8 | 135615238 | 135615238 | Heterozygous | A | G | Novel | ZFAT | INTRONIC | |
| chr8 | 135615238 | 135615238 | Heterozygous | A | G | Novel | ZFAT | INTRONIC | |
| chr8 | 139991996 | 139991999 | Heterozygous | GTTA | --- | Novel | COL22A1 | INTRONIC | |
| chr8 | 140631358 | 140631358 | Heterozygous | G | A | Novel | KCNK9 | INTRONIC | |
| chr8 | 141749052 | 141749053 | Heterozygous | - | T | Novel | PTK2 | INTRONIC | |
| chr8 | 141749052 | 141749053 | Heterozygous | - | T | Novel | PTK2 | INTRONIC | |
| chr8 | 142228210 | 142228210 | Heterozygous | C | T | Novel | SLC45A4 | NON_SYNONYMI_R->Q | |
| chr8 | 143832508 | 143832508 | Heterozygous | C | T | Novel | LYPD2 | NON_SYNONYMI_E->K | |
| chr8 | 144888269 | 144888269 | Heterozygous | C | T | Novel | SCRIB | NON_SYNONYMI_D->N | |
| chr8 | 144888269 | 144888269 | Heterozygous | C | T | Novel | SCRIB | NON_SYNONYMI_D->N | |
| chr8 | 144888269 | 144888269 | Heterozygous | C | T | Novel | SCRIB | NON_SYNONYMI_D->N | |
| chr8 | 144840290 | 144840290 | Heterozygous | C | G | Novel | EPHK1 | NON_SYNONYMI_D->H | |
| chr8 | 144840331 | 144840331 | Heterozygous | C | G | Novel | EPHK1 | NON_SYNONYMI_D->Q | |
| chr8 | 145623981 | 145623981 | Heterozygous | C | T | Novel | OPSF1 | INTRONIC | |
| chr8 | 145665903 | 145665903 | Heterozygous | C | T | Novel | NFKB1L2 | INTRONIC | |
| chr8 | 145689777 | 145689777 | Heterozygous | C | C | Novel | CYHR1 | SYNONYMOUS_CODING | |
| chr8 | 145689777 | 145689777 | Heterozygous | C | C | Novel | CYHR1 | INTRONIC | |
| chr8 | 145689777 | 145689777 | Heterozygous | C | C | Novel | CYHR1 | SYNONYMOUS_CODING | |
| chr8 | 145689777 | 145689777 | Heterozygous | C | C | Novel | CYHR1 | INTRONIC | |
| chr8 | 146158251 | 146158251 | Heterozygous | C | T | Novel | KIFC2 | UPSTREAM | |
| chr8 | 146158251 | 146158251 | Heterozygous | C | T | Novel | ZNF16 | NON_SYNONYMI_R->H | |
| chr8 | 146158251 | 146158251 | Heterozygous | C | T | Novel | ZNF16 | NON_SYNONYMI_R->H | |
| chr9 | 163928 | 163928 | Heterozygous | A | - | Novel | CBWD1 | INTRONIC | |
| chr9 | 163928 | 163928 | Heterozygous | A | - | Novel | CBWD1 | INTRONIC | |
| chr9 | 163928 | 163928 | Heterozygous | A | - | Novel | CBWD1 | INTRONIC | |
| chr9 | 389287 | 389287 | Heterozygous | - | G | Novel | DOCK8 | SPLICE_SITE | |
| chr9 | 389287 | 389287 | Heterozygous | - | G | Novel | DOCK8 | SPLICE_SITE | |
| chr9 | 734908 | 734908 | Heterozygous | G | C | Novel | KANK1 | INTRONIC | |
| chr9 | 734908 | 734908 | Heterozygous | G | C | Novel | KANK1 | INTRONIC | |
| chr9 | 742303 | 742303 | Heterozygous | C | T | Novel | KANK1 | SYNONYMOUS_CODING | |
| chr9 | 742303 | 742303 | Heterozygous | C | T | Novel | KANK1 | SYNONYMOUS_CODING | |
| chr9 | 2159068 | 2159070 | Heterozygous | GTT | --- | Novel | SMARCA2 | INTRONIC | |
| chr9 | 2159068 | 2159070 | Heterozygous | GTT | --- | Novel | SMARCA2 | INTRONIC | |
| chr9 | 4701842 | 4701842 | Heterozygous | T | - | Novel | CDC37L1 | INTRONIC | |
| chr9 | 4701842 | 4701842 | Heterozygous | T | G | Novel | CDC37L1 | INTRONIC | |
| chr9 | 5557582 | 5557582 | Heterozygous | T | C | Novel | PDCD1L2 | INTRONIC | |
| chr9 | 6499822 | 6499822 | Heterozygous | C | - | Novel | UHRF2 | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 8470931 | 8470931 | Heterozygous | G | - | Novel | PTRPD | INTRONIC | |
| chr9 | 13175716 | 13175716 | Heterozygous | GAG | --- | Novel | MPDZ | INTRONIC | |
| chr9 | 13222436 | 13222436 | Heterozygous | T | G | Novel | MPDZ | SYNONYMOUS_CODING | |
| chr9 | 14722146 | 14722147 | Heterozygous | - | G | Novel | CER1 | INTRONIC | |
| chr9 | 14756451 | 14756452 | Heterozygous | - | G | Novel | FREM1 | SPLICE_SITE | |
| chr9 | 14756451 | 14756452 | Heterozygous | - | G | Novel | FREM1 | SPLICE_SITE | |
| chr9 | 15458080 | 15458081 | Heterozygous | - | T | Novel | SNAPC3 | INTRONIC | |
| chr9 | 15465454 | 15465454 | Heterozygous | G | C | Novel | PSIP1 | 3PRIME_UTR | |
| chr9 | 15465454 | 15465454 | Heterozygous | G | C | Novel | PSIP1 | 3PRIME_UTR | |
| chr9 | 15510019 | 15510020 | Heterozygous | - | G | Novel | PSIP1 | INTRONIC | |
| chr9 | 15510019 | 15510020 | Heterozygous | - | G | Novel | PSIP1 | INTRONIC | |
| chr9 | 15510019 | 15510020 | Heterozygous | - | G | Novel | PSIP1 | INTRONIC | |
| chr9 | 16418970 | 16418970 | Heterozygous | T | C | Novel | BNG2 | 3PRIME_UTR | |
| chr9 | 18639427 | 18639427 | Heterozygous | A | C | Novel | ADAMTSL1 | INTRONIC | |
| chr9 | 18639427 | 18639427 | Heterozygous | A | C | Novel | ADAMTSL1 | INTRONIC | |
| chr9 | | | | | | | | | |

| Chromosome | Start | End | Zyosity | Reference | SNP Call | SNP Match Category | Gene Symbol | Consequence | Amino Acid Change | Chromosome | Start | End | Zyosity | Reference | SNP Call | SNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|-----------------|-----------|----------|--------------------|-------------------|-------------|-------------------|------------|-----------|-----------|----------------|-----------|----------|--------------------|-------------------|-------------|-------------------|
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTX | INTRONIC | | | chr9 | 97767724 | 97767724 | Heterozygous G | A | Novel | C9orf3 | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 97767724 | 97767724 | Heterozygous G | A | Novel | C9orf3 | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 99408080 | 99408080 | Heterozygous A | - | Novel | C9orf21 | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 99700407 | 99700407 | Homozygous G | T | Novel | FAM22G | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 99700407 | 99700407 | Homozygous G | T | Novel | FAM22G | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 100426607 | 100426607 | Heterozygous A | G | Novel | NCBP1 | INTRONIC | | |
| chr9 | 32988173 | 32988173 | Heterozygous A | G | Novel | APTXX | INTRONIC | | | chr9 | 104306989 | 104306989 | Heterozygous A | - | Novel | RNF20 | INTRONIC | | |
| chr9 | 33056972 | 33056972 | Heterozygous A | - | Novel | SMU1 | INTRONIC | | | chr9 | 108234163 | 108234164 | Heterozygous - | T | Novel | FSD1L | INTRONIC | | |
| chr9 | 33071662 | 33071662 | Heterozygous A | - | Novel | SMU1 | INTRONIC | | | chr9 | 108234163 | 108234164 | Heterozygous - | T | Novel | FSD1L | INTRONIC | | |
| chr9 | 33541050 | 33541050 | Heterozygous G | A | Novel | | GENIC | | | chr9 | 108234163 | 108234164 | Heterozygous - | T | Novel | FSD1L | INTRONIC | | |
| chr9 | 33566517 | 33566517 | Heterozygous G | A | Novel | | GENIC | | | chr9 | 112963497 | 112963497 | Heterozygous G | A | Novel | C9orf152 | NON_SYNONYML->F | | |
| chr9 | 33571222 | 33571222 | Homozygous T | - | Novel | | GENIC | | | chr9 | 113259016 | 113259016 | Heterozygous T | G | Novel | SVEP1 | INTRONIC | | |
| chr9 | 34254542 | 34254542 | Heterozygous T | C | Novel | KIF24 | INTRONIC | | | chr9 | 113431142 | 113431142 | Heterozygous G | A | Novel | MUSK | 5PRIME_UTR | | |
| chr9 | 34833081 | 34833081 | Heterozygous C | - | Novel | C9orf144 | EXONIC | | | chr9 | 113431142 | 113431142 | Heterozygous G | A | Novel | MUSK | 5PRIME_UTR | | |
| chr9 | 35105311 | 35105311 | Heterozygous G | A | Novel | KIAA1539 | SYNONYMOUS_CODING | | | chr9 | 113431142 | 113431142 | Heterozygous G | A | Novel | MUSK | 5PRIME_UTR | | |
| chr9 | 35382560 | 35382560 | Heterozygous T | - | Novel | UNC13B | INTRONIC | | | chr9 | 113496703 | 113496703 | Heterozygous G | A | Novel | MUSK | INTRONIC | | |
| chr9 | 35561253 | 35561253 | Heterozygous A | C | Novel | RUSC2 | SYNONYMOUS_CODING | | | chr9 | 113496703 | 113496703 | Heterozygous G | A | Novel | MUSK | INTRONIC | | |
| chr9 | 35561253 | 35561253 | Heterozygous A | C | Novel | RUSC2 | SYNONYMOUS_CODING | | | chr9 | 113496703 | 113496703 | Heterozygous G | A | Novel | MUSK | INTRONIC | | |
| chr9 | 35561253 | 35561253 | Heterozygous A | C | Novel | FAM166B | DOWNSTREAM | | | chr9 | 116039127 | 116039127 | Heterozygous G | A | Novel | CDG26 | UPSTREAM | | |
| chr9 | 35678288 | 35678288 | Heterozygous T | C | Novel | CA9 | SPICE_SITE | | | chr9 | 116039127 | 116039127 | Heterozygous G | A | Novel | PRPF4 | INTRONIC | | |
| chr9 | 35678288 | 35678288 | Heterozygous T | C | Novel | NPR2 | INTRONIC | | | chr9 | 116132023 | 116132023 | Heterozygous G | T | Novel | BSPRY | SYNONYMOUS_CODING | | |
| chr9 | 35678288 | 35678288 | Heterozygous T | C | Novel | RNF38 | INTRONIC | | | chr9 | 117400867 | 117400867 | Heterozygous A | T | Novel | C9orf91 | NON_SYNONYML->V | | |
| chr9 | 36356259 | 36356259 | Heterozygous T | G | Novel | RNF38 | INTRONIC | | | chr9 | 118164376 | 118164376 | Heterozygous T | - | Novel | DEC1 | INTRONIC | | |
| chr9 | 36356259 | 36356259 | Heterozygous T | G | Novel | RNF38 | INTRONIC | | | chr9 | 119249734 | 119249734 | Heterozygous G | A | Novel | ASTN2 | NON_SYNONYML->I | | |
| chr9 | 36356259 | 36356259 | Heterozygous T | G | Novel | RNF38 | INTRONIC | | | chr9 | 119249734 | 119249734 | Heterozygous G | A | Novel | ASTN2 | NON_SYNONYML->I | | |
| chr9 | 36356259 | 36356259 | Heterozygous T | G | Novel | RNF38 | INTRONIC | | | chr9 | 119249734 | 119249734 | Heterozygous G | A | Novel | ASTN2 | NON_SYNONYML->I | | |
| chr9 | 36356259 | 36356259 | Heterozygous T | G | Novel | RNF38 | INTRONIC | | | chr9 | 119249734 | 119249734 | Heterozygous G | A | Novel | ASTN2 | NON_SYNONYML->I | | |
| chr9 | 41954728 | 41954728 | Homozygous C | A | Novel | MGC21881 | INTRONIC | | | chr9 | 123177283 | 123177283 | Heterozygous G | A | Novel | CDK5RAP2 | INTRONIC | | |
| chr9 | 41954828 | 41954828 | Heterozygous C | T | Novel | MGC21881 | EXONIC | | | chr9 | 123177283 | 123177283 | Heterozygous G | A | Novel | CDK5RAP2 | INTRONIC | | |
| chr9 | 68517038 | 68517038 | Heterozygous G | A | Novel | | GENIC | | | chr9 | 123233948 | 123233948 | Heterozygous T | C | Novel | CDK5RAP2 | INTRONIC | | |
| chr9 | 68427939 | 68427940 | Heterozygous AT | - | Novel | | GENIC | | | chr9 | 123233948 | 123233948 | Heterozygous T | C | Novel | CDK5RAP2 | INTRONIC | | |
| chr9 | 68427946 | 68427946 | Heterozygous A | G | Novel | | GENIC | | | chr9 | 125242026 | 125242027 | Heterozygous - | TT | Novel | OR1J1 | UPSTREAM | | |
| chr9 | 69424049 | 69424049 | Heterozygous G | - | Novel | ANKRD20A4 | GENESHIPT_CCODING | | | chr9 | 130566876 | 130566876 | Heterozygous T | G | Novel | FPGS | INTRONIC | | |
| chr9 | 69846662 | 69846662 | Heterozygous C | A | Novel | | GENIC | | | chr9 | 130566876 | 130566876 | Heterozygous T | G | Novel | FPGS | INTRONIC | | |
| chr9 | 70993092 | 70993093 | Heterozygous - | T | Novel | PGM5 | INTRONIC | | | chr9 | 130605433 | 130605433 | Heterozygous G | A | Novel | ENG | SYNONYMOUS_CODING | | |
| chr9 | 72091082 | 72091082 | Heterozygous A | T | Novel | APBA1 | INTRONIC | | | chr9 | 130605433 | 130605433 | Heterozygous G | A | Novel | ENG | SYNONYMOUS_CODING | | |
| chr9 | 77353256 | 77353256 | Heterozygous G | C | Novel | TRPM6 | INTRONIC | | | chr9 | 131104703 | 131104703 | Heterozygous A | G | Novel | SLC27A4 | INTRONIC | | |
| chr9 | 77353256 | 77353256 | Heterozygous G | C | Novel | TRPM6 | INTRONIC | | | chr9 | 131583071 | 131583071 | Heterozygous C | A | Novel | ENDOG | NON_SYNONYML->R | | |
| chr9 | 77353256 | 77353256 | Heterozygous G | C | Novel | TRPM6 | INTRONIC | | | chr9 | 131583071 | 131583071 | Heterozygous C | A | Novel | C9orf114 | DOWNSTREAM | | |
| chr9 | 78748980 | 78748981 | Heterozygous - | T | Novel | PSK5 | INTRONIC | | | chr9 | 133231452 | 133231453 | Heterozygous - | C | Novel | | GENIC | | |
| chr9 | 79118632 | 79118632 | Heterozygous C | - | Novel | GCNT1 | 3PRIME_UTR | | | chr9 | 133233795 | 133233795 | Heterozygous A | T | Novel | | GENIC | | |
| chr9 | 79118632 | 79118632 | Heterozygous C | - | Novel | GCNT1 | 3PRIME_UTR | | | chr9 | 134098052 | 134098052 | Heterozygous C | T | Novel | NUP214 | INTRONIC | | |
| chr9 | 79118632 | 79118632 | Heterozygous C | - | Novel | GCNT1 | 3PRIME_UTR | | | chr9 | 135161767 | 135161767 | Heterozygous A | - | Novel | SETX | INTRONIC | | |
| chr9 | 79118632 | 79118632 | Heterozygous C | - | Novel | GCNT1 | 3PRIME_UTR | | | chr9 | 135763732 | 135763732 | Heterozygous G | A | Novel | C9orf9 | NON_SYNONYML->S | | |
| chr9 | 79244209 | 79244209 | Heterozygous A | - | Novel | PRUNE2 | SPICE_SITE | | | chr9 | 135919378 | 135919378 | Heterozygous G | A | Novel | GTF3C5 | INTRONIC | | |
| chr9 | 79814919 | 79814919 | Heterozygous T | C | Novel | VPS13A | INTRONIC | | | chr9 | 135919378 | 135919378 | Heterozygous G | A | Novel | GTF3C5 | INTRONIC | | |
| chr9 | 79814919 | 79814919 | Heterozygous T | C | Novel | VPS13A | INTRONIC | | | chr9 | 136380523 | 136380523 | Heterozygous C | A | Novel | TMEM8C | INTRONIC | | |
| chr9 | 79814919 | 79814919 | Heterozygous T | C | Novel | VPS13A | INTRONIC | | | chr9 | 136380599 | 136380599 | Heterozygous C | A | Novel | TMEM8C | INTRONIC | | |
| chr9 | 79814919 | 79814919 | Heterozygous T | C | Novel | VPS13A | INTRONIC | | | chr9 | 137293686 | 137293686 | Heterozygous G | A | Novel | XRRA | SYNONYMOUS_CODING | | |
| chr9 | 79955345 | 79955345 | Heterozygous G | A | Novel | VPS13A | NON_SYNONYML->N | | | chr9 | 137314208 | 137314208 | Heterozygous C | T | Novel | XRRA | INTRONIC | | |
| chr9 | 79955345 | 79955345 | Heterozygous G | A | Novel | VPS13A | NON_SYNONYML->N | | | chr9 | 137333961 | 137333961 | Heterozygous A | C | Novel | COL5A1 | INTRONIC | | |
| chr9 | 79955345 | 79955345 | Heterozygous G | A | Novel | VPS13A | NON_SYNONYML->N | | | chr9 | 138555222 | 138555222 | Heterozygous G | A | Novel | LCN9 | EXONIC | | |
| chr9 | 80881524 | 80881524 | Heterozygous C | T | Novel | CEP78 | NON_SYNONYML->L | | | chr9 | 138742110 | 138742110 | Heterozygous G | C | Novel | CAMSAP1 | INTRONIC | | |
| chr9 | 82264839 | 82264839 | Heterozygous - | T | Novel | TLE4 | INTRONIC | | | chr9 | 139270976 | 139270976 | Heterozygous G | A | Novel | TLE4 | INTRONIC | | |
| chr9 | 85926894 | 85926894 | Heterozygous A | - | Novel | FRMD3 | SPICE_SITE | | | chr9 | 139270976 | 139270976 | Heterozygous G | A | Novel | SNAP4 | INTRONIC | | |
| chr9 | 86518190 | 86518190 | Heterozygous C | T | Novel | KIF27 | NON_SYNONYML->I | | | chr9 | 139686290 | 139686290 | Heterozygous C | A | Novel | TMEM141 | INTRONIC | | |
| chr9 | 86914709 | 86914710 | Heterozygous - | T | Novel | SLC28A3 | INTRONIC | | | chr9 | 139748635 | 139748635 | Homozygous G | A | Novel | MAMDC4 | INTRONIC | | |
| chr9 | 88257811 | 88257811 | Heterozygous T | A | Novel | AGTPBP1 | NON_SYNONYML->D | | | chr9 | 139753246 | 139753246 | Homozygous C | T | Novel | MAMDC4 | NON_SYNONYML->L | | |
| chr9 | 88953635 | 88953635 | Heterozygous T | C | Novel | ZCCHC9 | INTRONIC | | | chr9 | 139874591 | 139874591 | Homozygous G | A | Novel | PTGS5 | INTRONIC | | |
| chr9 | 88953635 | 88953635 | Heterozygous T | C | Novel | ZCCHC9 | INTRONIC | | | chr9 | 139973553 | 139973553 | Heterozygous A | G | Novel | MAN1B1 | INTRONIC | | |
| chr9 | 88953635 | 88953635 | Heterozygous T | C | Novel | ZCCHC9 | INTRONIC | | | chr9 | 14007466 | 14007466 | Homozygous G | A | Novel | PPP7 | NON_SYNONYML->V | | |
| chr9 | 90345437 | 90345437 | Heterozygous C | T | Novel | CTSL1 | INTRONIC | | | chr9 | 140051217 | 140051217 | Heterozygous G | C | Novel | GRIN1 | SYNONYMOUS_CODING | | |
| chr9 | 90345437 | 90345437 | Heterozygous C | T | Novel | CTSL1 | INTRONIC | | | chr9 | 140051217 | 140051217 | Heterozygous G | C | Novel | GRIN1 | SYNONYMOUS_CODING | | |
| chr9 | 90401855 | 90401855 | Heterozygous C | T | Novel | CTSL3 | DOWNSTREAM | | | chr9 | 140051217 | 140051217 | Heterozygous G | C | Novel | GRIN1 | SYNONYMOUS_CODING | | |
| chr9 | 90746809 | 90746809 | Heterozygous C | T | Novel | FAM75C2 | SYNONYMOUS_CODING | | | chr9 | 140051217 | 140051217 | Heterozygous G | C | Novel | GRIN1 | SYNONYMOUS_CODING | | |
| chr9 | 94118287 | 94118288 | Heterozygous - | A | Novel | AUH | INTRONIC | | | chr9 | 140108868 | 140108868 | Heterozygous G | A | Novel | NDOR1 | SPICE_SITE | | |
| chr9 | 94487101 | 94487101 | Heterozygous C | T | Novel | ROR2 | NON_SYNONYML->S | | | chr9 | 140108868 | 140108868 | Heterozygous G | A | Novel | NDOR1 | SPICE_SITE | | |
| chr9 | 95085695 | 95085695 | Heterozygous C | T | Novel | NOL8 | INTRONIC | | | chr9 | 140108868 | 140108868 | Heterozygous G | A | Novel | NDOR1 | SPICE_SITE | | |
| chr9 | 95085695 | 95085695 | Heterozygous C | T | Novel | NOL8 | INTRONIC | | | chr9 | 140108868 | 140108868 | Heterozygous G | A | Novel | NDOR1 | SPICE_SITE | | |
| chr9 | 95618606 | 95618606 | Heterozygous A | - | Novel | ZNF484 | SPICE_SITE | | | chr9 | 140109141 | 140109141 | Heterozygous C | T | Novel | NDOR1 | NON_SYNONYML->L | | |
| chr9 | 95618606 | 95618606 | Heterozygous A | - | Novel | ZNF484 | SPICE_SITE | | | chr9 | 140109141 | 140109141 | Heterozygous C | T | Novel | NDOR1 | NON_SYNONYML->L | | |
| chr9 | 95689892 | 95689892 | Heterozygous C | T | Novel | C9orf89 | INTRONIC | | | chr9 | 140109141 | 140109141 | Heterozygous C | T | Novel | NDOR1 | NON_SYNONYML->L | | |
| chr9 | 97081252 | 97081252 | Heterozygous G | C | Novel | FAM22F | NON_SYNONYML->G | | | chr9 | 140109141 | 140109141 | Heterozygous C | | | | | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr10 | 75135993 | 75135993 | Heterozygous | T | C | Novel | ANXA7 | INTRONIC | |
| chr10 | 75135993 | 75135993 | Heterozygous | T | C | Novel | ANXA7 | INTRONIC | |
| chr10 | 75186570 | 75186570 | Heterozygous | C | T | Novel | ZMYND17 | INTRONIC | |
| chr10 | 75214138 | 75214138 | Heterozygous | A | - | Novel | PPP3CB | INTRONIC | |
| chr10 | 75214138 | 75214138 | Heterozygous | A | - | Novel | PPP3CB | INTRONIC | |
| chr10 | 75214138 | 75214138 | Heterozygous | A | - | Novel | PPP3CB | INTRONIC | |
| chr10 | 75532864 | 75532864 | Heterozygous | T | G | Novel | SEC24C | DOWNSTREAM | |
| chr10 | 75532864 | 75532864 | Heterozygous | T | G | Novel | SEC24C | DOWNSTREAM | |
| chr10 | 75532864 | 75532864 | Heterozygous | T | G | Novel | FUT11 | INTRONIC | |
| chr10 | 79593652 | 79593652 | Heterozygous | G | A | Novel | DLG5 | INTRONIC | |
| chr10 | 81317741 | 81317741 | Heterozygous | G | C | Novel | SFTPA2 | INTRONIC | |
| chr10 | 81667395 | 81667400 | Heterozygous | TTTGTT | TTTGTT | Novel | | GENIC | |
| chr10 | 81667395 | 81667400 | Heterozygous | TTTGTT | TTTGTT | Novel | | GENIC | |
| chr10 | 81667403 | 81667403 | Heterozygous | TGT | TTTGTT | Novel | | GENIC | |
| chr10 | 84745277 | 84745277 | Heterozygous | C | G | Novel | | GENIC | |
| chr10 | 84745277 | 84745277 | Heterozygous | C | G | Novel | NRG3 | SYNONYMOUS_CODING | |
| chr10 | 84745277 | 84745277 | Heterozygous | C | G | Novel | NRG3 | SYNONYMOUS_CODING | |
| chr10 | 84745277 | 84745277 | Heterozygous | C | G | Novel | NRG3 | SYNONYMOUS_CODING | |
| chr10 | 88834244 | 88834245 | Heterozygous | - | A | Novel | GLUD1 | INTRONIC | |
| chr10 | 90497523 | 90497523 | Heterozygous | G | A | Novel | LIPK | EXONIC | |
| chr10 | 90562705 | 90562705 | Heterozygous | T | A | Novel | LIPM | NON_SYNONYMI>R | |
| chr10 | 90733157 | 90733157 | Heterozygous | C | T | Novel | ACTA2 | INTRONIC | |
| chr10 | 91483916 | 91483917 | Heterozygous | - | T | Novel | KIF20B | INTRONIC | |
| chr10 | 92503408 | 92503408 | Heterozygous | C | G | Novel | HTR7 | INTRONIC | |
| chr10 | 92503408 | 92503408 | Heterozygous | C | G | Novel | HTR7 | INTRONIC | |
| chr10 | 92503408 | 92503408 | Heterozygous | C | G | Novel | HTR7 | INTRONIC | |
| chr10 | 93588248 | 93588248 | Heterozygous | T | - | Novel | TKNS2 | INTRONIC | |
| chr10 | 93593602 | 93593602 | Heterozygous | T | C | Novel | TKNS2 | SPICE_SITE | |
| chr10 | 95088378 | 95088378 | Heterozygous | C | T | Novel | MYOF | INTRONIC | |
| chr10 | 95088378 | 95088378 | Heterozygous | C | T | Novel | MYOF | INTRONIC | |
| chr10 | 95266811 | 95266811 | Heterozygous | G | T | Novel | CEP55 | NON_SYNONYMI>Y | |
| chr10 | 95266811 | 95266811 | Heterozygous | G | T | Novel | CEP55 | NON_SYNONYMI>Y | |
| chr10 | 95431667 | 95431668 | Heterozygous | -A | TG | Novel | FRA10A | INTRONIC | |
| chr10 | 95892073 | 95892073 | Heterozygous | T | C | Novel | PLCE1 | NON_SYNONYMI>A | |
| chr10 | 95892073 | 95892073 | Heterozygous | T | C | Novel | PLCE1 | NON_SYNONYMI>A | |
| chr10 | 96353423 | 96353423 | Heterozygous | T | - | Novel | HELLS | INTRONIC | |
| chr10 | 99198508 | 99198508 | Heterozygous | T | - | Novel | EXOSC1 | INTRONIC | |
| chr10 | 99350308 | 99350308 | Heterozygous | G | A | Novel | DHDP5L | INTRONIC | |
| chr10 | 99350308 | 99350308 | Heterozygous | G | A | Novel | DHDP5L | INTRONIC | |
| chr10 | 99350308 | 99350308 | Heterozygous | G | A | Novel | C10orf82 | SYNONYMOUS_CODING | |
| chr10 | 99428973 | 99428973 | Heterozygous | C | T | Novel | PI4K2A | INTRONIC | |
| chr10 | 101554311 | 101554311 | Heterozygous | T | A | Novel | ABCC2 | INTRONIC | |
| chr10 | 102705058 | 102705059 | Heterozygous | - | T | Novel | FAM178A | INTRONIC | |
| chr10 | 102705058 | 102705059 | Heterozygous | - | T | Novel | FAM178A | INTRONIC | |
| chr10 | 102732979 | 102732979 | Heterozygous | G | A | Novel | SEMA4G | NON_SYNONYMI>Q | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | MRPL43 | UPSTREAM | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | MRPL43 | UPSTREAM | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | MRPL43 | UPSTREAM | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | MRPL43 | UPSTREAM | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | C10orf2 | INTRONIC | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | C10orf2 | INTRONIC | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | C10orf2 | INTRONIC | |
| chr10 | 102749232 | 102749232 | Heterozygous | A | G | Novel | C10orf2 | INTRONIC | |
| chr10 | 102750196 | 102750196 | Heterozygous | T | C | Novel | C10orf2 | SYNONYMOUS_CODING | |
| chr10 | 102750196 | 102750196 | Heterozygous | T | C | Novel | C10orf2 | SYNONYMOUS_CODING | |
| chr10 | 102750196 | 102750196 | Heterozygous | T | C | Novel | C10orf2 | SYNONYMOUS_CODING | |
| chr10 | 104120732 | 104120732 | Heterozygous | A | - | Novel | GBF1 | INTRONIC | |
| chr10 | 105365517 | 105365517 | Heterozygous | A | G | Novel | SH3PX2A | INTRONIC | |
| chr10 | 106125594 | 106125594 | Heterozygous | G | A | Novel | CCDC147 | NON_SYNONYMI>H | |
| chr10 | 111440633 | 111440633 | Heterozygous | A | A | Novel | | GENIC | |
| chr10 | 111624859 | 111624859 | Heterozygous | G | A | Novel | XPNPEP1 | 3PRIME_UTR | |
| chr10 | 111624859 | 111624859 | Heterozygous | G | A | Novel | XPNPEP1 | 3PRIME_UTR | |
| chr10 | 111624859 | 111624859 | Heterozygous | G | A | Novel | XPNPEP1 | EXONIC | |
| chr10 | 111633158 | 111633158 | Heterozygous | T | C | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111633158 | 111633158 | Heterozygous | T | C | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111633158 | 111633158 | Heterozygous | T | C | Novel | XPNPEP1 | EXONIC | |
| chr10 | 111642270 | 111642270 | Heterozygous | G | A | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111642270 | 111642270 | Heterozygous | G | A | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111642270 | 111642270 | Heterozygous | G | A | Novel | XPNPEP1 | EXONIC | |
| chr10 | 111642325 | 111642325 | Heterozygous | G | A | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111642325 | 111642325 | Heterozygous | G | A | Novel | XPNPEP1 | SYNONYMOUS_CODING | |
| chr10 | 111642325 | 111642325 | Heterozygous | G | A | Novel | XPNPEP1 | EXONIC | |
| chr10 | 11228650 | 11228651 | Heterozygous | - | T | Novel | SMC3 | INTRONIC | |
| chr10 | 112540591 | 112540591 | Heterozygous | C | T | Novel | RBM20 | NON_SYNONYMI>L | |
| chr10 | 113913470 | 113913470 | Heterozygous | A | - | Novel | GPAM | INTRONIC | |
| chr10 | 115357687 | 115357687 | Heterozygous | G | T | Novel | NRAP | INTRONIC | |
| chr10 | 115357687 | 115357687 | Heterozygous | G | T | Novel | NRAP | INTRONIC | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------|-----------|----------|----------------------|-------------|-------------------|-------------------|
| chr10 | 115896939 | 115896939 | Heterozygous | G | A | Novel | C10orf118 | SPLICE_SITE | |
| chr10 | 115910911 | 115910911 | Heterozygous | G | A | Novel | C10orf118 | SYNONYMOUS_CODING | |
| chr10 | 115970719 | 115970719 | Heterozygous | G | A | Novel | TDRD1 | SYNONYMOUS_CODING | |
| chr10 | 116307462 | 116307462 | Heterozygous | C | T | Novel | ABLIM1 | SYNONYMOUS_CODING | |
| chr10 | 116307462 | 116307462 | Heterozygous | C | T | Novel | ABLIM1 | SYNONYMOUS_CODING | |
| chr10 | 116307462 | 116307462 | Heterozygous | C | T | Novel | ABLIM1 | SYNONYMOUS_CODING | |
| chr10 | 119966161 | 119966162 | Heterozygous | GT | --- | Novel | CASC2 | INTRONIC | |
| chr10 | 119966161 | 119966162 | Heterozygous | GT | --- | Novel | CASC2 | INTRONIC | |
| chr10 | 120631519 | 120631520 | Heterozygous | - | T | Novel | | GENIC | |
| chr10 | 120907173 | 120907174 | Heterozygous | - | G | Novel | SFXN4 | INTRONIC | |
| chr10 | 121541048 | 121541049 | Heterozygous | - | T | Novel | INPP5F | INTRONIC | |
| chr10 | 121541048 | 121541049 | Heterozygous | - | T | Novel | INPP5F | INTRONIC | |
| chr10 | 123997610 | 123997610 | Heterozygous | C | T | Novel | TACC2 | INTRONIC | |
| chr10 | 123997610 | 123997610 | Heterozygous | C | T | Novel | TACC2 | INTRONIC | |
| chr10 | 123997610 | 123997610 | Heterozygous | C | T | Novel | TACC2 | INTRONIC | |
| chr10 | 123997610 | 123997610 | Heterozygous | C | T | Novel | TACC2 | INTRONIC | |
| chr10 | 124340301 | 124340301 | Heterozygous | T | C | Novel | DMBT1 | INTRONIC | |
| chr10 | 124340301 | 124340301 | Heterozygous | T | C | Novel | DMBT1 | INTRONIC | |
| chr10 | 124340301 | 124340301 | Heterozygous | T | C | Novel | DMBT1 | INTRONIC | |
| chr10 | 124340406 | 124340406 | Heterozygous | G | C | Novel | DMBT1 | NON_SYNONYMI>T | |
| chr10 | 124340406 | 124340406 | Heterozygous | G | C | Novel | DMBT1 | NON_SYNONYMI>T | |
| chr10 | 124340406 | 124340406 | Heterozygous | G | C | Novel | DMBT1 | NON_SYNONYMI>T | |
| chr10 | 124457238 | 124457238 | Heterozygous | C | T | Novel | C10orf120 | 3PRIME_UTR | |
| chr10 | 124654348 | 124654348 | Heterozygous | T | - | Novel | LOC398985 | INTRONIC | |
| chr10 | 126831045 | 126831045 | Heterozygous | C | T | Novel | ZRANB1 | 5PRIME_UTR | |
| chr10 | 126831344 | 126831344 | Heterozygous | A | G | Novel | ZRANB1 | SYNONYMOUS_CODING | |
| chr10 | 129864291 | 129864291 | Heterozygous | G | T | Novel | PTPRE | INTRONIC | |
| chr10 | 129864291 | 129864291 | Heterozygous | G | T | Novel | PTPRE | INTRONIC | |
| chr10 | 134752008 | 134752008 | Homozygous | C | - | Novel | C10orf93 | INTRONIC | |
| chr10 | 134997524 | 134997525 | Heterozygous | --- | TTTG | Novel | KNDC1 | INTRONIC | |
| chr11 | 700196 | 700196 | Heterozygous | C | G | Novel | TMEM80 | NON_SYNONYMI>V | |
| chr11 | 700196 | 700196 | Heterozygous | C | G | Novel | TMEM80 | NON_SYNONYMI>V | |
| chr11 | 1015828 | 1015828 | Heterozygous | C | T | Novel | MUC6 | NON_SYNONYMI>T | |
| chr11 | 1016618 | 1016618 | Heterozygous | G | C | Novel | MUC6 | SYNONYMOUS_CODING | |
| chr11 | 1016795 | 1016795 | Heterozygous | C | G | Novel | MUC6 | NON_SYNONYMI>H | |
| chr11 | 1016825 | 1016825 | Heterozygous | G | A | Novel | MUC6 | SYNONYMOUS_CODING | |
| chr11 | 1027955 | 1027955 | Heterozygous | G | A | Novel | MUC6 | INTRONIC | |
| chr11 | 1092388 | 1092388 | Heterozygous | A | C | Novel | MUC2 | NON_SYNONYMI>P | |
| chr11 | 1462163 | 1462163 | Heterozygous | G | - | Novel | BRSK2 | SPLICE_SITE | |
| chr11 | 1905147 | 1905147 | Heterozygous | T | - | Novel | LSP1 | INTRONIC | |
| chr11 | 1905147 | 1905147 | Heterozygous | T | - | Novel | LSP1 | INTRONIC | |
| chr11 | 1905147 | 1905147 | Heterozygous | T | - | Novel | LSP1 | INTRONIC | |
| chr11 | 1905147 | 1905147 | Heterozygous | T | - | Novel | LSP1 | INTRONIC | |
| chr11 | 2018137 | 2018137 | Heterozygous | C | G | Novel | H19 | EXONIC | |
| chr11 | 2426173 | 2426173 | Heterozygous | G | A | Novel | TSSC4 | DOWNSTREAM | |
| chr11 | 2426173 | 2426173 | Heterozygous | G | A | Novel | TRPM5 | SYNONYMOUS_CODING | |
| chr11 | 3381799 | 3381799 | Heterozygous | A | - | Novel | ZNF195 | SPLICE_SITE | |
| chr11 | 3381799 | 3381799 | Heterozygous | A | - | Novel | ZNF195 | SPLICE_SITE | |
| chr11 | 3381799 | 3381799 | Heterozygous | A | - | Novel | ZNF195 | SPLICE_SITE | |
| chr11 | 3381799 | 3381799 | Heterozygous | A | - | Novel | ZNF195 | SPLICE_SITE | |
| chr11 | 3733699 | 3733699 | Heterozygous | C | T | Novel | NUP98 | 3PRIME_UTR | |
| chr11 | 3733699 | 3733699 | Heterozygous | C | T | Novel | NUP98 | INTRONIC | |
| chr11 | 3733699 | 3733699 | Heterozygous | C | T | Novel | NUP98 | 3PRIME_UTR | |
| chr11 | 3733699 | 3733699 | Heterozygous | C | T | Novel | NUP98 | INTRONIC | |
| chr11 | 3742063 | 3742063 | Heterozygous | A | C | Novel | NUP98 | SPLICE_SITE | |
| chr11 | 3742063 | 3742063 | Heterozygous | A | C | Novel | NUP98 | SPLICE_SITE | |
| chr11 | 3742063 | 3742063 | Heterozygous | A | C | Novel | NUP98 | SPLICE_SITE | |
| chr11 | 4139451 | 4139451 | Heterozygous | T | - | Novel | RRM1 | INTRONIC | |
| chr11 | 4827273 | 4827273 | Heterozygous | A | - | Novel | OR52R1 | UPSTREAM | |
| chr11 | 5020511 | 5020511 | Heterozygous | A | G | Novel | OR5L1 | EXONIC | |
| chr11 | 5080771 | 5080771 | Heterozygous | G | A | Novel | OR52E2 | EXONIC | |
| chr11 | 5373845 | 5373845 | Heterozygous | G | A | Novel | OR51B6 | EXONIC | |
| | | | | | | | | | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|-------------------|-----------|----------|----------------------|-------------|-----------------------|-------------------|
| chr11 | 10820664 | 10820665 | Heterozygous AA | — | A | Novel | E1F4G2 | SPLICE_SITE | |
| chr11 | 10820664 | 10820665 | Heterozygous AA | — | A | Novel | E1F4G2 | SPLICE_SITE | |
| chr11 | 10820664 | 10820665 | Heterozygous AA | — | A | Novel | E1F4G2 | SPLICE_SITE | |
| chr11 | 10823575 | 10823576 | Heterozygous GC | AA | A | Novel | E1F4G2 | INTRONIC | |
| chr11 | 10823575 | 10823576 | Heterozygous GC | AA | A | Novel | E1F4G2 | INTRONIC | |
| chr11 | 10823575 | 10823576 | Heterozygous GC | AA | A | Novel | E1F4G2 | INTRONIC | |
| chr11 | 10823575 | 10823576 | Heterozygous GC | AA | A | Novel | SNORD97 | UPSTREAM | |
| chr11 | 11941854 | 11941854 | Heterozygous A | G | A | Novel | USP47 | INTRONIC | |
| chr11 | 11964077 | 11964077 | Heterozygous G | A | A | Novel | USP47 | NON_SYNONYMI-E>K | |
| chr11 | 11977681 | 11977681 | Heterozygous T | C | A | Novel | USP47 | NON_SYNONYMI-Y>H | |
| chr11 | 12020321 | 12020321 | Heterozygous G | C | A | Novel | DKK3 | SYNONYMOUS_CODING | |
| chr11 | 12020321 | 12020321 | Heterozygous G | C | A | Novel | DKK3 | SYNONYMOUS_CODING | |
| chr11 | 12020321 | 12020321 | Heterozygous G | C | A | Novel | DKK3 | SYNONYMOUS_CODING | |
| chr11 | 12024049 | 12024049 | Heterozygous A | — | A | Novel | DKK3 | INTRONIC | |
| chr11 | 12024049 | 12024049 | Heterozygous A | — | A | Novel | DKK3 | INTRONIC | |
| chr11 | 12024049 | 12024049 | Heterozygous A | — | A | Novel | DKK3 | INTRONIC | |
| chr11 | 14539316 | 14539316 | Heterozygous A | — | A | Novel | PSMA1 | INTRONIC | |
| chr11 | 14539316 | 14539316 | Heterozygous A | — | A | Novel | PSMA1 | INTRONIC | |
| chr11 | 14539316 | 14539316 | Heterozygous A | — | A | Novel | PSMA1 | INTRONIC | |
| chr11 | 18812551 | 18812551 | Heterozygous C | T | A | Novel | PK3C2A | SPLICE_SITE | |
| chr11 | 17111198 | 17111199 | Heterozygous GT | — | A | Novel | PK3C2A | 3PRIME_UTR | |
| chr11 | 17591914 | 17591914 | Heterozygous T | G | A | Novel | GENIC | GENIC | |
| chr11 | 17615771 | 17615771 | Heterozygous C | T | A | Novel | GENIC | GENIC | |
| chr11 | 17827330 | 17827330 | Heterozygous G | A | A | Novel | GENIC | GENIC | |
| chr11 | 18743271 | 18743271 | Heterozygous C | T | A | Novel | IGSF22 | INTRONIC | |
| chr11 | 20639429 | 20639450 | Heterozygous | TAAG | A | Novel | SLC6A5 | INTRONIC | |
| chr11 | 21596579 | 21596579 | Heterozygous G | A | A | Novel | NELL1 | 3PRIME_UTR | |
| chr11 | 21596579 | 21596579 | Heterozygous G | A | A | Novel | NELL1 | 3PRIME_UTR | |
| chr11 | 22297607 | 22297607 | Heterozygous T | — | A | Novel | ANO5 | INTRONIC | |
| chr11 | 22297607 | 22297607 | Heterozygous T | — | A | Novel | ANO5 | INTRONIC | |
| chr11 | 25004568 | 25004568 | Heterozygous A | G | A | Novel | LUZP2 | INTRONIC | |
| chr11 | 26713916 | 26713916 | Heterozygous C | T | A | Novel | SLC5A12 | INTRONIC | |
| chr11 | 30900264 | 30900264 | Heterozygous A | — | A | Novel | DDCC5 | SPLICE_SITE | |
| chr11 | 31123626 | 31123626 | Heterozygous A | — | A | Novel | GENIC | GENIC | |
| chr11 | 33080407 | 33080407 | Homozygous G | C | A | Novel | TCP11L1 | INTRONIC | |
| chr11 | 33080407 | 33080407 | Homozygous G | C | A | Novel | TCP11L1 | INTRONIC | |
| chr11 | 33087551 | 33087551 | Heterozygous A | C | A | Novel | TCP11L1 | NON_SYNONYMI-H>P | |
| chr11 | 33087551 | 33087551 | Heterozygous A | C | A | Novel | TCP11L1 | NON_SYNONYMI>Y>X | |
| chr11 | 34154735 | 34154735 | Heterozygous T | G | A | Novel | NAT10 | INTRONIC | |
| chr11 | 34154735 | 34154735 | Heterozygous T | G | A | Novel | NAT10 | INTRONIC | |
| chr11 | 36440836 | 36440836 | Homozygous A | G | A | Novel | PRR5L | NON_SYNONYMI>V | |
| chr11 | 36440836 | 36440836 | Homozygous A | G | A | Novel | PRR5L | NON_SYNONYMI>V | |
| chr11 | 36440836 | 36440836 | Homozygous A | G | A | Novel | PRR5L | NON_SYNONYMI>V | |
| chr11 | 43467447 | 43467447 | Heterozygous A | G | A | Novel | TTG17 | INTRONIC | |
| chr11 | 44193045 | 44193046 | Heterozygous CC | — | A | Novel | EXT2 | INTRONIC | |
| chr11 | 44193045 | 44193046 | Heterozygous CC | — | A | Novel | EXT2 | INTRONIC | |
| chr11 | 44193045 | 44193046 | Heterozygous CC | — | A | Novel | EXT2 | INTRONIC | |
| chr11 | 44257777 | 44257777 | Heterozygous G | C | A | Novel | EXT2 | INTRONIC | |
| chr11 | 44257777 | 44257777 | Heterozygous G | C | A | Novel | EXT2 | INTRONIC | |
| chr11 | 44257777 | 44257777 | Heterozygous G | C | A | Novel | EXT2 | INTRONIC | |
| chr11 | 46333864 | 46333864 | Heterozygous T | C | A | Novel | CREB3L1 | INTRONIC | |
| chr11 | 47187072 | 47187072 | Heterozygous A | — | A | Novel | C11orf49 | DOWNSTREAM | |
| chr11 | 47187072 | 47187072 | Heterozygous A | — | A | Novel | ARFGAP2 | INTRONIC | |
| chr11 | 48373897 | 48373897 | Heterozygous C | T | A | Novel | OR4C45 | EXONIC | |
| chr11 | 48994541 | 48994544 | Heterozygous TTTA | — | A | Novel | GENIC | GENIC | |
| chr11 | 49000314 | 49000314 | Homozygous T | — | A | Novel | GENIC | GENIC | |
| chr11 | 49056227 | 49056228 | Heterozygous C- | GT | A | Novel | GENIC | GENIC | |
| chr11 | 49056227 | 49056228 | Heterozygous C- | TT | A | Novel | GENIC | GENIC | |
| chr11 | 55136252 | 55136252 | Heterozygous C | A | A | Novel | ORA4A15 | EXONIC | |
| chr11 | 55523336 | 55523336 | Heterozygous C | T | A | Novel | GENIC | GENIC | |
| chr11 | 55633014 | 55633014 | Heterozygous G | C | A | Novel | GENIC | GENIC | |
| chr11 | 55635353 | 55635353 | Heterozygous G | A | A | Novel | SPRYD5 | INTRONIC | |
| chr11 | 56237879 | 56237879 | Heterozygous A | G | A | Novel | OR5M3 | EXONIC | |
| chr11 | 57243584 | 57243584 | Heterozygous C | T | A | Novel | RTN4RL2 | INTRONIC | |
| chr11 | 57982107 | 57982107 | Heterozygous C | T | A | Novel | OR1S1 | UPSTREAM | |
| chr11 | 58920339 | 58920339 | Heterozygous T | C | A | Novel | FAM111A | NON_SYNONYMI>W>R | |
| chr11 | 58920339 | 58920339 | Heterozygous T | C | A | Novel | FAM111A | NON_SYNONYMI>W>R | |
| chr11 | 58920339 | 58920339 | Heterozygous T | C | A | Novel | FAM111A | NON_SYNONYMI>W>R | |
| chr11 | 58920339 | 58920339 | Heterozygous T | C | A | Novel | FAM111A | NON_SYNONYMI>W>R | |
| chr11 | 58920339 | 58920339 | Heterozygous T | C | A | Novel | FAM111A | NON_SYNONYMI>W>R | |
| chr11 | 59282595 | 59282595 | Heterozygous C | T | A | Novel | OR4D9 | EXONIC | |
| chr11 | 60698185 | 60698185 | Heterozygous T | C | A | Novel | TMEM132A | INTRONIC | |
| chr11 | 60698185 | 60698185 | Heterozygous T | C | A | Novel | TMEM132A | INTRONIC | |
| chr11 | 61058941 | 61058941 | Heterozygous C | T | A | Novel | TMEM132A | INTRONIC | |
| chr11 | 61161357 | 61161357 | Heterozygous T | G | A | Novel | TMEM216 | SYNONYMOUS_CODING_SPL | |
| chr11 | 61161357 | 61161357 | Heterozygous T | G | A | Novel | TMEM216 | SYNONYMOUS_CODING_SPL | |
| chr11 | 61161357 | 61161357 | Heterozygous T | G | A | Novel | TMEM216 | SPLICE_SITE | |

| Chromosome | Start | End | Zygosity | Reference | SNP Call | dbSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|----------|----------|-----------------|-----------|----------|----------------------|-------------|---------------------|-------------------|
| chr11 | 61977874 | 61977874 | Heterozygous T | C | A | Novel | SCGB2A1 | INTRONIC | |
| chr11 | 62038507 | 62038507 | Heterozygous G | A | A | Novel | SCGB2A2 | SYNONYMOUS_CODING | |
| chr11 | 62343414 | 62343414 | Heterozygous G | A | A | Novel | EEF1G | UPSTREAM | |
| chr11 | 62343414 | 62343414 | Heterozygous G | A | A | Novel | TUT1 | NON_SYNONYMI>P>S | |
| chr11 | 62361452 | 62361452 | Heterozygous C | T | A | Novel | MTA2 | SYNONYMOUS_CODING | |
| chr11 | 63413965 | 63413966 | Heterozygous AT | — | A | Novel | ATL3 | INTRONIC | |
| chr11 | 64011554 | 64011555 | Heterozygous - | A | A | Novel | FKBP2 | 3PRIME_UTR | |
| chr11 | 64011554 | 64011555 | Heterozygous - | A | A | Novel | FKBP2 | 3PRIME_UTR | |
| chr11 | 64011554 | 64011555 | Heterozygous - | A | A | Novel | FKBP2 | 3PRIME_UTR | |
| chr11 | 64011554 | 64011555 | Heterozygous - | A | A | Novel | PPP1R14B | DOWNSTREAM | |
| chr11 | 64361219 | 64361219 | Heterozygous G | A | A | Novel | SLC22A12 | STOP_GAINED_W->Stop | |
| chr11 | 64361219 | 64361219 | Heterozygous G | A | A | Novel | SLC22A12 | STOP_GAINED_W->Stop | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64573024 | 64573024 | Heterozygous C | T | A | Novel | MEM1 | INTRONIC | |
| chr11 | 64678544 | 64678544 | Heterozygous G | A | A | Novel | ATG2A | NON_SYNONYMI>R>C | |
| chr11 | 64895380 | 64895380 | Heterozygous G | A | A | Novel | PPP2R5B | SYNONYMOUS_CODING | |
| chr11 | 65380805 | 65380805 | Heterozygous C | T | A | Novel | MAPK11 | NON_SYNONYMI>R>Q | |
| chr11 | 65385508 | 65385508 | Heterozygous G | A | A | Novel | PGNXL3 | SYNONYMOUS_CODING | |
| chr11 | 66258954 | 66258954 | Heterozygous G | A | A | Novel | DPP3 | INTRONIC | |
| chr11 | 66258954 | 66258954 | Heterozygous G | A | A | Novel | DPP3 | INTRONIC | |
| chr11 | 66260064 | 66260064 | Heterozygous C | T | A | Novel | DPP3 | INTRONIC | |
| chr11 | 66260064 | 66260064 | Heterozygous C | T | A | Novel | DPP3 | INTRONIC | |
| chr11 | 66472843 | 66472843 | Heterozygous G | A | A | Novel | SPTBN2 | NON_SYNONYMI>A>V | |
| chr11 | 66611582 | 66611582 | Heterozygous T | C | A | Novel | C11orf80 | DOWNSTREAM | |
| chr11 | 66611582 | 66611582 | Heterozygous T | C | A | Novel | RCE1 | INTRONIC | |
| chr11 | 66611582 | 66611582 | Heterozygous T | C | A | Novel | RCE1 | INTRONIC | |
| chr11 | 68986651 | 68986651 | Heterozygous G | T | A | Novel | KDM2A | INTRONIC | |
| chr11 | 68986651 | 68986651 | Heterozygous G | T | A | Novel | KDM2A | INTRONIC | |
| chr11 | 67163338 | 67163338 | Heterozygous T | C | A | Novel | RAD9A | INTRONIC | |
| chr11 | 67400234 | 67400234 | Heterozygous C | T | A | Novel | TBX10 | INTRONIC | |
| chr11 | 71249121 | 71249121 | Heterozygous C | G | A | Novel | KRTAP5-8 | NON_SYNONYMI>S>C | |
| chr11 | 71249125 | 71249125 | Heterozygous A | G | A | Novel | KRTAP5-8 | SYNONYMOUS_CODING | |
| chr11 | 71249529 | 71249529 | Heterozygous G | A | A | Novel | KRTAP5-8 | NON_SYNONYMI>R>Y | |
| chr11 | 71249605 | 71249605 | Heterozygous C | T | A | Novel | KRTAP5-8 | SYNONYMOUS_CODING | |
| chr11 | 71276702 | 71276702 | Heterozygous C | T | A | Novel | KRTAP5-10 | NON_SYNONYMI>S>C | |
| chr11 | 71305139 | 71305139 | Homozygous G | A | A | Novel | GENIC | GENIC | |
| chr11 | 71305192 | 71305192 | Heterozygous G | A | A | Novel | GENIC | GENIC | |
| chr11 | 72300892 | 72300892 | Heterozygous G | A | A | Novel | PDE2A | INTRONIC | |
| chr11 | 72300892 | 72300892 | Heterozygous G | A | A | Novel | PDE2A | INTRONIC | |
| chr11 | 72300892 | 72300892 | Heterozygous G | A | A | Novel | PDE2A | INTRONIC | |
| chr11 | 73067103 | 73067103 | Heterozygous G | A | A | Novel | ARHGAP17 | INTRONIC | |
| chr11 | 73101988 | 73101988 | Heterozygous G | T | A | Novel | RELT | INTRONIC | |
| chr11 | 73101988 | 73101988 | Heterozygous G | T | A | Novel | RELT | INTRONIC | |
| chr11 | 73765731 | 73765731 | Heterozygous A | C | A | Novel | C2CD3 | INTRONIC | |
| chr11 | 73984702 | 73984702 | Heterozygous G | A | A | Novel | P4HA3 | INTRONIC | |
| chr11 | 74980155 | 74980155 | Heterozygous C | T | A | Novel | ARB1 | INTRONIC | |
| chr11 | 74980155 | 74980155 | Heterozygous C | T | A | Novel | ARB1 | INTRONIC | |
| chr11 | 75480097 | 75480097 | Heterozygous G | A | A | Novel | DGAT2 | NON_SYNONYMI>D>N | |
| chr11 | 77824907 | 77824907 | Heterozygous G | A | A | Novel | ALG8 | INTRONIC | |
| chr11 | 77824907 | 77824907 | Heterozygous G | A | A | Novel | ALG8 | INTRONIC | |
| chr11 | 78380609 | 78380609 | Heterozygous G | A | A | Novel | ODZ4 | SYNONYMOUS_CODING | |
| chr11 | 78600757 | 78600757 | Heterozygous G | A | A | Novel | ODZ4 | INTRONIC | |
| chr11 | 8298494 | | | | | | | | |

| Chromosome | Start | End | Zygoty | Reference | SNP Call | dSNP Match Category | Gene Symbol | Consequence | Amino Acid Change | Chromosome | Start | End | Zygoty | Reference | SNP Call | dSNP Match Category | Gene Symbol | Consequence | Amino Acid Change |
|------------|-----------|-----------|--------------------|-----------|----------|---------------------|-------------|-------------------|-------------------|------------|----------|----------|------------------|-----------|----------|---------------------|-------------|-----------------------|-------------------|
| chr11 | 93462769 | 93462770 | Heterozygous - | C | C | Novel | KIAA1731 | INTRONIC | | chr12 | 538114 | 538114 | Heterozygous C | T | T | Novel | CGDC77 | INTRONIC | |
| chr11 | 93462769 | 93462770 | Heterozygous - | C | C | Novel | SNORA25 | DOWNSTREAM | | chr12 | 645360 | 645360 | Heterozygous C | A | A | Novel | BAGALNT3 | INTRONIC | |
| chr11 | 93462769 | 93462770 | Heterozygous - | C | C | Novel | SNORA32 | DOWNSTREAM | | chr12 | 970128 | 970128 | Heterozygous T | G | G | Novel | WNK1 | INTRONIC | |
| chr11 | 93462769 | 93462770 | Heterozygous - | C | C | Novel | SNORD8 | DOWNSTREAM | | chr12 | 970128 | 970128 | Heterozygous T | G | G | Novel | WNK1 | INTRONIC | |
| chr11 | 93469568 | 93469568 | Heterozygous G | C | C | Novel | SNORA40 | UPSTREAM | | chr12 | 970128 | 970128 | Heterozygous T | G | G | Novel | WNK1 | INTRONIC | |
| chr11 | 93469568 | 93469568 | Heterozygous G | C | C | Novel | TAF1D | INTRONIC | | chr12 | 970128 | 970128 | Heterozygous T | G | G | Novel | WNK1 | INTRONIC | |
| chr11 | 93493077 | 93493077 | Heterozygous T | G | G | Novel | C11orf54 | INTRONIC | | chr12 | 1225157 | 1225157 | Heterozygous C | T | T | Novel | ERF1 | SYNONYMOUS_CODING | |
| chr11 | 93837699 | 93837699 | Heterozygous C | A | A | Novel | HEPHL1 | SYNONYMOUS_CODING | | chr12 | 1225157 | 1225157 | Heterozygous C | T | T | Novel | ERF1 | SYNONYMOUS_CODING | |
| chr11 | 93843984 | 93843987 | Heterozygous TTTA | --- | --- | Novel | HEPHL1 | INTRONIC | | chr12 | 1225157 | 1225157 | Heterozygous C | T | T | Novel | ERF1 | EXONIC | |
| chr11 | 100807184 | 100807185 | Heterozygous - | T | T | Novel | ARHGAP42 | INTRONIC | | chr12 | 1225157 | 1225157 | Heterozygous C | T | T | Novel | ERF1 | EXONIC | |
| chr11 | 102649558 | 102649558 | Heterozygous T | G | G | Novel | MMP10 | INTRONIC | | chr12 | 1225157 | 1225157 | Heterozygous C | T | T | Novel | ERF1 | INTRONIC | |
| chr11 | 103228883 | 103228883 | Heterozygous C | T | T | Novel | DYNC2H1 | INTRONIC | | chr12 | 2082323 | 2082324 | Heterozygous --- | TGC | TGC | Novel | DCP1B | NON_SYNONYMOUS_CODING | |
| chr11 | 103228883 | 103228883 | Heterozygous C | T | T | Novel | DYNC2H1 | INTRONIC | | chr12 | 3320759 | 3320760 | Heterozygous TT | -T | -T | Novel | TSKAN9 | INTRONIC | |
| chr11 | 107686742 | 107686743 | Heterozygous AC | --- | --- | Novel | SLC35F2 | INTRONIC | | chr12 | 3320759 | 3320760 | Heterozygous TT | -T | -T | Novel | TSKAN9 | INTRONIC | |
| chr11 | 108043827 | 108043827 | Heterozygous C | T | T | Novel | NPAT | SYNONYMOUS_CODING | | chr12 | 3320759 | 3320760 | Heterozygous TT | -T | -T | Novel | TSKAN9 | INTRONIC | |
| chr11 | 108141958 | 108141958 | Heterozygous T | --- | --- | Novel | ATM | INTRONIC | | chr12 | 3320759 | 3320760 | Heterozygous TT | -T | -T | Novel | TSKAN9 | INTRONIC | |
| chr11 | 110104184 | 110104184 | Heterozygous G | A | A | Novel | RDX | SYNONYMOUS_CODING | | chr12 | 3677777 | 3677777 | Heterozygous G | - | - | Novel | PRMT8 | INTRONIC | |
| chr11 | 110150487 | 110150487 | Heterozygous A | - | - | Novel | RDX | SPLICE_SITE | | chr12 | 6428698 | 6428698 | Heterozygous T | G | G | Novel | PLEKHG6 | INTRONIC | |
| chr11 | 110450664 | 110450664 | Heterozygous G | A | A | Novel | ARHGAP20 | SYNONYMOUS_CODING | | chr12 | 6428698 | 6428698 | Heterozygous T | G | G | Novel | PLEKHG6 | INTRONIC | |
| chr11 | 111783959 | 111783959 | Heterozygous C | T | T | Novel | CRYAB | UPSTREAM | | chr12 | 6428698 | 6428698 | Heterozygous T | G | G | Novel | PLEKHG6 | INTRONIC | |
| chr11 | 111783959 | 111783959 | Heterozygous C | T | T | Novel | HSPB2 | INTRONIC | | chr12 | 6943013 | 6943013 | Homozygous C | T | T | Novel | LEPREL2 | INTRONIC | |
| chr11 | 112053564 | 112053565 | Heterozygous ----- | TAAAA | TAAAA | Novel | BCO2 | INTRONIC | | chr12 | 7024871 | 7024871 | Homozygous C | T | T | Novel | LRRC23 | DOWNSTREAM | |
| chr11 | 112053564 | 112053565 | Heterozygous ----- | TAAAA | TAAAA | Novel | BCO2 | INTRONIC | | chr12 | 7024871 | 7024871 | Homozygous C | T | T | Novel | LRRC23 | DOWNSTREAM | |
| chr11 | 114276552 | 114276553 | Heterozygous - | A | A | Novel | RC3H1 | INTRONIC | | chr12 | 7024871 | 7024871 | Homozygous C | T | T | Novel | LRRC23 | DOWNSTREAM | |
| chr11 | 118719894 | 118719894 | Heterozygous T | A | A | Novel | SIK3 | NON_SYNONYMIH>R | | chr12 | 7024871 | 7024871 | Homozygous C | T | T | Novel | ENO2 | INTRONIC | |
| chr11 | 117064508 | 117064508 | Heterozygous T | G | G | Novel | SIDT2 | INTRONIC | | chr12 | 7044943 | 7044943 | Homozygous G | A | A | Novel | ATN1 | SYNONYMOUS_CODING | |
| chr11 | 117241728 | 117241728 | Heterozygous T | C | C | Novel | CEP164 | INTRONIC | | chr12 | 7044943 | 7044943 | Homozygous G | A | A | Novel | ATN1 | SYNONYMOUS_CODING | |
| chr11 | 117307692 | 117307692 | Heterozygous T | G | G | Novel | DSCAML1 | INTRONIC | | chr12 | 7045889 | 7045889 | Heterozygous C | - | - | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 118245971 | 118245972 | Heterozygous --- | TG | TG | Novel | UBE4A | INTRONIC | | chr12 | 7045889 | 7045889 | Heterozygous C | - | - | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 118773140 | 118773140 | Heterozygous C | A | A | Novel | BCL9L | NON_SYNONYMI A>S | | chr12 | 7045891 | 7045891 | Heterozygous A | G | G | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 119050352 | 119050352 | Heterozygous T | C | C | Novel | NLRX1 | INTRONIC | | chr12 | 7045891 | 7045891 | Heterozygous A | - | - | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 119050352 | 119050352 | Heterozygous T | C | C | Novel | NLRX1 | INTRONIC | | chr12 | 7045891 | 7045891 | Heterozygous A | G | G | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 119063920 | 119063920 | Heterozygous T | C | C | Novel | CGDC153 | NON_SYNONYMI D>G | | chr12 | 7241211 | 7241211 | Heterozygous T | G | G | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 119229034 | 119229034 | Heterozygous T | - | - | Novel | USP2 | INTRONIC | | chr12 | 7241211 | 7241211 | Heterozygous T | G | G | Novel | ATN1 | FRAMESHIFT_CODING | |
| chr11 | 119229034 | 119229034 | Heterozygous T | - | - | Novel | USP2 | INTRONIC | | chr12 | 7289332 | 7289332 | Heterozygous T | G | G | Novel | GENIC | | |
| chr11 | 122724593 | 122724593 | Heterozygous T | - | - | Novel | CRTAM | INTRONIC | | chr12 | 7342855 | 7342855 | Heterozygous G | A | A | Novel | CLSTN3 | INTRONIC | |
| chr11 | 122738064 | 122738064 | Heterozygous A | - | - | Novel | CRTAM | INTRONIC | | chr12 | 7342855 | 7342855 | Heterozygous G | A | A | Novel | PEX5 | UPSTREAM | |
| chr11 | 122817188 | 122817188 | Heterozygous T | - | - | Novel | C11orf83 | INTRONIC | | chr12 | 7342855 | 7342855 | Heterozygous G | A | A | Novel | PEX5 | INTRONIC | |
| chr11 | 122928935 | 122928936 | Heterozygous AA | --- | --- | Novel | HSPA8 | INTRONIC | | chr12 | 7342855 | 7342855 | Heterozygous G | A | A | Novel | PEX5 | INTRONIC | |
| chr11 | 122928935 | 122928936 | Heterozygous AA | -A | -A | Novel | HSPA8 | INTRONIC | | chr12 | 7342855 | 7342855 | Heterozygous G | A | A | Novel | PEX5 | INTRONIC | |
| chr11 | 122928935 | 122928936 | Heterozygous AA | --- | --- | Novel | HSPA8 | INTRONIC | | chr12 | 7521564 | 7521565 | Heterozygous GA | A | A | Novel | CD183L1 | SPLICE_SITE | |
| chr11 | 122928935 | 122928936 | Heterozygous AA | -A | -A | Novel | HSPA8 | INTRONIC | | chr12 | 7981418 | 7981418 | Heterozygous C | A | A | Novel | SLC2A14 | SYNONYMOUS_CODING | |
| chr11 | 122930127 | 122930128 | Heterozygous ----- | CGAGT | CGAGT | Novel | HSPA8 | INTRONIC | | chr12 | 8048082 | 8048082 | Heterozygous T | C | C | Novel | GENIC | | |
| chr11 | 122930127 | 122930128 | Heterozygous ----- | CGAGT | CGAGT | Novel | HSPA8 | INTRONIC | | chr12 | 8387026 | 8387026 | Heterozygous G | A | A | Novel | LOC653113 | EXONIC | |
| chr11 | 123483377 | 123483377 | Heterozygous G | A | A | Novel | GRAMD1B | INTRONIC | | chr12 | 8388356 | 8388356 | Heterozygous C | G | G | Novel | LOC653113 | INTRONIC | |
| chr11 | 123755288 | 123755288 | Heterozygous G | A | A | Novel | TMEM225 | SYNONYMOUS_CODING | | chr12 | 8391243 | 8391243 | Heterozygous G | A | A | Novel | LOC653113 | INTRONIC | |
| chr11 | 123777820 | 123777820 | Heterozygous A | C | C | Novel | OR8D4 | EXONIC | | chr12 | 8757819 | 8757819 | Heterozygous G | A | A | Novel | AIGDA | NON_SYNONYMI T>I | |
| chr11 | 123894670 | 123894670 | Heterozygous A | T | T | Novel | OR10G9 | DOWNSTREAM | | chr12 | 9010538 | 9010539 | Heterozygous - | T | T | Novel | A2ML1 | SPLICE_SITE | |
| chr11 | 123894714 | 123894715 | Heterozygous TG | CA | CA | Novel | OR10G9 | DOWNSTREAM | | chr12 | 9087907 | 9087909 | Heterozygous TAG | --- | --- | Novel | PHC1 | INTRONIC | |
| chr11 | 123894730 | 123894730 | Heterozygous T | C | C | Novel | OR10G9 | DOWNSTREAM | | chr12 | 9693848 | 9693848 | Homozygous A | G | G | Novel | GENIC | | |
| chr11 | 123894736 | 123894736 | Heterozygous G | A | A | Novel | OR10G9 | DOWNSTREAM | | chr12 | 10586978 | 10586979 | Heterozygous - | T | T | Novel | KLRC2 | INTRONIC | |
| chr11 | 124007460 | 124007461 | Heterozygous CG | AT | AT | Novel | VWASA | INTRONIC | | chr12 | 11001964 | 11001964 | Heterozygous T | - | - | Novel | PRR4 | INTRONIC | |
| chr11 | 124007460 | 124007461 | Heterozygous CG | AT | AT | Novel | VWASA | INTRONIC | | chr12 | 11001964 | 11001964 | Heterozygous T | - | - | Novel | PRR4 | INTRONIC | |
| chr11 | 124007701 | 124007702 | Heterozygous - | T | T | Novel | VWASA | INTRONIC | | chr12 | 11183752 | 11183752 | Heterozygous T | C | C | Novel | PRR4 | INTRONIC | |
| chr11 | 124007701 | 124007702 | Heterozygous - | T | T | Novel | VWASA | INTRONIC | | chr12 | 11183752 | 11183752 | Heterozygous T | C | C | Novel | PRH1 | INTRONIC | |
| chr11 | 125351440 | 125351440 | Heterozygous G | A | A | Novel | FEZ1 | NON_SYNONYMI S>F | | chr12 | 11183752 | 11183752 | Heterozygous T | C | C | Novel | TAS2R31 | SYNONYMOUS_CODING | |
| chr11 | 125442504 | 125442504 | Heterozygous T | - | - | Novel | EI24 | INTRONIC | | chr12 | 11420399 | 11420370 | Heterozygous AA | GG | GG | Novel | PRB3 | INTRONIC | |
| chr11 | 125442504 | 125442504 | Heterozygous T | - | - | Novel | EI24 | INTRONIC | | chr12 | 11506583 | 11506583 | Homozygous A | G | G | Novel | PRB1 | NON_SYNONYMI Stop>R | |
| chr11 | 125452222 | 125452222 | Heterozygous T | - | - | Novel | EI24 | INTRONIC | | chr12 | 11506583 | 11506583 | Homozygous A | G | G | Novel | PRB1 | INTRONIC | |
| chr11 | 125452222 | 125452222 | Heterozygous T | - | - | Novel | EI24 | INTRONIC | | chr12 | 11506583 | 11506583 | Homozygous A | G | G | Novel | PRB1 | INTRONIC | |
| chr11 | 125452300 | 125452301 | Homozygous - | C | C | Novel | EI24 | EXONIC | | chr12 | 11506593 | 11506593 | Homozygous A | G | G | Novel | PRB1 | INTRONIC | |
| chr11 | 125452300 | 125452301 | Homozygous - | C | C | Novel | EI24 | EXONIC | | chr12 | 11546742 | 11546742 | Heterozygous C | C | C | Novel | PRB2 | SYNONYMOUS_CODING | |
| chr11 | 128677100 | 128677100 | Heterozygous G | C | C | Novel | FLI1 | SYNONYMOUS_CODING | | chr12 | 13243644 | 13243644 | Heterozygous C | A | A | Novel | GSG1 | NON_SYNONYMI->L | |
| chr11 | 128677100 | 128677100 | Heterozygous G | C | C | Novel | FLI1 | | | | | | | | | | | | |