**S3 Table: List off all variants detected with Score > 100.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene Location** | **rs number** | **AA exchange** | **WT Allele** | **Zygosity** | **Score** |
| FTO\_Exon1 | rs73609956 | Thr6= | ref=T | hetero=TH\_1315318001\_P\_AG:45 | score=100 |
| FTO\_Exon1 | rs73609956 | Thr6= | ref=T | hetero=TH\_1715022001\_P\_AG:50 | score=164 |
| FTO\_Exon3 |  | Val82Leu | ref=G | hetero=TH\_418197001\_C\_AG:37 | score=195 |
| FTO\_Exon3 |  | Ala162Thr | ref=G | hetero=TH\_1315311001\_P\_AG:40 | score=144 |
| FTO\_Exon3 |  | Ala162Thr | ref=G | hetero=TH\_1815408001\_P\_AG:48 | score=285 |
| FTO\_Exon4 |  | Ser256Asn | ref=G | hetero=TH\_515046001\_P\_AG:47 | score=185 |
| FTO\_Exon4 |  | Ser256Asn | ref=G | hetero=TH\_418185001\_C\_AG:39 | score=168 |
| FTO\_Exon6 |  | Ile355= | ref=T | hetero=TH\_418136001\_C\_AG:46 | score=243 |
| FTO\_Exon8 | rs144100465 | Cys9Tyr | ref=G | hetero=TH\_418340001\_C\_AG:40 | score=141 |
| FTO\_Exon8 | rs2287142 | Lys20= | ref=G | source=TH\_1715088001\_P\_AG: 42 | score=204 |
| FTO\_Exon8 | rs2287142 | Lys20= | ref=G | hetero=TH\_515095001\_P\_AG:45 | score=329 |
| FTO\_Exon8 | rs2287142 | Lys20= | ref=G | source=TH\_4018046001\_C\_AG:33 | score=323 |
| FTO\_Exon8 | rs2287142 | Lys20= | ref=G | source=TH\_418141001\_C\_AG:29 | score=142 |
| MC4R\_Exon1 | rs52820871 | Ile251Phe | ref=T | hetero=TH\_1815396001\_P\_AG:46 | score=194 |
| MC4R\_Exon1 | rs52820871 | Ile251Phe | ref=T | hetero=TH\_1815408001\_P\_AG:46 | score=223 |
| MC4R\_Exon1 | rs52820871 | Ile251Phe | ref=T | hetero=TH\_418147001\_C\_AG:30 | score=116 |
| MC4R\_Exon1 | rs52820871 | Ile251Phe | ref=T | hetero=TH\_418165001\_C\_AG:50 | score=268 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_1415112001\_P\_AG:36 | score=231 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_1715012001\_P\_AG:50 | score=210 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_1715067001\_P\_AG:32 | score=180 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_1815293001\_P\_AG:43 | score=318 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_1815484001\_P\_AG:47 | score=312 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_715071001\_P\_AG:41 | score=180 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_4018015001\_C\_AG:50 | score=125 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_4018046001\_C\_AG:46 | score=325 |
| MC4R\_Exon1 | rs2229616 | Val103Ile | ref=C | hetero=TH\_418140001\_C\_AG:32 | score=138 |
| MC4R\_Exon1 |  | Thr101Asn | ref=G | hetero=TH\_515037001\_P\_AG:47 | score=325 |
| MC4R\_Exon1 | rs13447325 | Asp37Val | ref=T | hetero=TH\_1815284001\_P\_AG:41 | score=263 |
| MC4R\_Exon1 | rs13447325 | Asp37Val | ref=T | hetero=TH\_515247001\_P\_AG:48 | score=344 |
| MC4R\_Exon1 | rs13447324 | Tyr35Stop | ref=G | hetero=TH\_1815284001\_P\_AG:45 | score=284 |
| MC4R\_Exon1 | rs13447324 | Tyr35Stop | ref=G | hetero=TH\_515247001\_P\_AG:45 | score=331 |
| MSRA\_Exon1 |  | Thr5fs\*131 | mutations=del | |  |  |
| MSRA\_Exon10 |  | Gly187Ser | ref=G | hetero=TH\_515095001\_P\_AG:37 | score=164 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_1715022001\_P\_AG:47 | 272 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_1715030001\_P\_AG:40 | 134 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_1715064001\_P\_AG:43 | 105 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_1815221001\_P\_AG:50 | 100 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_515095001\_P\_AG:43 | 198 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_515223001\_P\_AG:50 | 122 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_715095001\_P\_AG:36 | 134 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_715104001\_P\_AG:37 | 174 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418136001\_C\_AG:45 | 155 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418142001\_C\_AG:30 | 104 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418146001\_C\_AG:42 | 118 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418156001\_C\_AG:43 | 170 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418165001\_C\_AG:42 | 147 |  |
| MSRA\_Exon10 | rs3750314 | Gly232= | ref=T | TH\_418168001\_C\_AG:28 | 107 |  |
| MSRA\_Exon6 |  | Asp142Tyr | ref=G | hetero=TH\_418132001\_C\_AG:50 | score=112 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | hetero=TH\_1315249001\_P\_AG:50 | score=133 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1315318001\_P\_AG:45 | 106 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1315342001\_P\_AG:45 | 291 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1415117001\_P\_AG:26 | 132 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1415154001\_P\_AG:29 | 120 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715003001\_P\_AG:45 | 311 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715021001\_P\_AG:45 | 337 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715022001\_P\_AG:44 | 296 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715067001\_P\_AG:30 | 157 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715080001\_P\_AG:34 | 169 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 117 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1715105001\_P\_AG:33 | 153 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1815241001\_P\_AG:45 | 261 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1815251001\_P\_AG:35 | 194 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1815293001\_P\_AG:41 | 288 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_1815337001\_P\_AG:48 | 289 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515015001\_P\_AG:45 | 292 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515018001\_P\_AG:43 | 218 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515035001\_P\_AG:44 | 260 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515046001\_P\_AG:40 | 146 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515055001\_P\_AG:50 | 264 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515095001\_P\_AG:39 | 300 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515099001\_P\_AG:31 | 100 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515112001\_P\_AG:41 | 261 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515121001\_P\_AG:37 | 265 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515132001\_P\_AG:50 | 178 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515151001\_P\_AG:47 | 256 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515162001\_P\_AG:46 | 328 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515165001\_P\_AG:47 | 352 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515180001\_P\_AG:50 | 133 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 178 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515206001\_P\_AG:50 | 220 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515211001\_P\_AG:43 | 135 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515223001\_P\_AG:47 | 252 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515244001\_P\_AG:48 | 260 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515262001\_P\_AG:42 | 184 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515285001\_P\_AG:50 | 117 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515294001\_P\_AG:47 | 330 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515297001\_P\_AG:50 | 126 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515303001\_P\_AG:43 | 128 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_515333001\_P\_AG:43 | 182 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_715088001\_P\_AG:46 | 216 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_715092001\_P\_AG:47 | 200 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_715184001\_P\_AG:48 | 317 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018004001\_C\_AG:34 | 129 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 108 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018009001\_C\_AG:40 | 197 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018010001\_C\_AG:38 | 277 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 129 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018021001\_C\_AG:32 | 130 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018051001\_C\_AG:40 | 232 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018054001\_C\_AG:50 | 134 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_4018066001\_C\_AG:45 | 309 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418119001\_C\_AG:39 | 232 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418121001\_C\_AG:50 | 263 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418122001\_C\_AG:46 | 210 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418133001\_C\_AG:33 | 152 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418135001\_C\_AG:47 | 183 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418136001\_C\_AG:43 | 256 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418137001\_C\_AG:45 | 197 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418156001\_C\_AG:50 | 195 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418158001\_C\_AG:47 | 174 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418162001\_C\_AG:41 | 199 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418165001\_C\_AG:48 | 280 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418167001\_C\_AG:44 | 273 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 138 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418171001\_C\_AG:24 | 181 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418178001\_C\_AG:50 | 150 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 102 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418194001\_C\_AG:33 | 146 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C |  | 117 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418304001\_C\_AG:42 | 327 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418306001\_C\_AG:45 | 230 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418325001\_C\_AG:45 | 107 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418357001\_C\_AG:44 | 204 |  |
| MSRA\_Exon9 | rs6601444 | Thr88Met | ref=C | TH\_418712001\_C\_AG:45 | 260 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 120 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1315376001\_P\_AG:46 | 147 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715012001\_P\_AG:34 | 127 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715021001\_P\_AG:40 | 203 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715022001\_P\_AG:40 | 214 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715034001\_P\_AG:45 | 206 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715040001\_P\_AG:47 | 118 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715053001\_P\_AG:37 | 152 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1715073001\_P\_AG:44 | 156 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815099001\_P\_AG:50 | 100 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815247001\_P\_AG:50 | 243 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815261001\_P\_AG:48 | 197 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815268001\_P\_AG:44 | 219 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 117 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815284001\_P\_AG:36 | 177 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815285001\_P\_AG:40 | 142 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815293001\_P\_AG:43 | 217 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815396001\_P\_AG:48 | 176 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_1815484001\_P\_AG:48 | 201 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515015001\_P\_AG:40 | 158 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515037001\_P\_AG:38 | 132 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515046001\_P\_AG:45 | 100 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515080001\_P\_AG:38 | 124 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 132 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515112001\_P\_AG:28 | 105 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515114001\_P\_AG:46 | 161 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515121001\_P\_AG:45 | 184 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515162001\_P\_AG:48 | 205 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 181 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515167001\_P\_AG:33 | 106 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 126 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 132 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515221001\_P\_AG:41 | 101 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515244001\_P\_AG:42 | 169 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_515293001\_P\_AG:47 | 110 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_715013001\_P\_AG:47 | 283 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_715092001\_P\_AG:43 | 123 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_715184001\_P\_AG:39 | 166 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_4018027001\_C\_AG:40 | 275 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 187 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418118001\_C\_AG:40 | 116 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 120 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418137001\_C\_AG:47 | 164 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418142001\_C\_AG:37 | 107 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418147001\_C\_AG:46 | 136 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418148001\_C\_AG:30 | 133 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418156001\_C\_AG:35 | 113 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418166001\_C\_AG:43 | 107 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418171001\_C\_AG:48 | 225 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418182001\_C\_AG:37 | 122 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418194001\_C\_AG:50 | 107 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418302001\_C\_AG:31 | 100 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 181 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418319001\_C\_AG:50 | 115 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418357001\_C\_AG:37 | 100 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418361001\_C\_AG:43 | 131 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A |  | 111 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418701001\_C\_AG:50 | 194 |  |
| SDCCAG8\_Exon11 | rs2275155 | Glu378Asp | ref=A | TH\_418739001\_C\_AG:45 | 135 |  |
| SDCCAG8\_Exon11 | rs79435766 | Thr398Met | ref=C | hetero=TH\_515195001\_P\_AG:45 | score=252 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1315304001\_P\_AG:45 | 187 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1315332001\_P\_AG:42 | 146 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 105 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1415115001\_P\_AG:42 | 148 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1415121001\_P\_AG:45 | 250 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1415145001\_P\_AG:38 | 277 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715003001\_P\_AG:41 | 180 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 111 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 102 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715022001\_P\_AG:50 | 260 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 108 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715034001\_P\_AG:37 | 259 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 147 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715050001\_P\_AG:45 | 247 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715051001\_P\_AG:38 | 164 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715053001\_P\_AG:32 | 164 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715065001\_P\_AG:41 | 120 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715067001\_P\_AG:43 | 119 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715073001\_P\_AG:39 | 153 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715093001\_P\_AG:42 | 139 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715099001\_P\_AG:42 | 125 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1715105001\_P\_AG:47 | 162 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 108 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815247001\_P\_AG:47 | 260 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815251001\_P\_AG:48 | 192 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 144 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815284001\_P\_AG:47 | 273 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815285001\_P\_AG:33 | 103 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815349001\_P\_AG:46 | 204 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815368001\_P\_AG:50 | 131 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_1815396001\_P\_AG:48 | 224 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515037001\_P\_AG:47 | 271 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515062001\_P\_AG:46 | 215 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515073001\_P\_AG:50 | 163 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 126 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515080001\_P\_AG:35 | 108 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 108 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515106001\_P\_AG:39 | 170 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515112001\_P\_AG:50 | 214 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515121001\_P\_AG:50 | 247 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515162001\_P\_AG:46 | 245 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515164001\_P\_AG:47 | 260 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515180001\_P\_AG:46 | 123 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515185001\_P\_AG:46 | 125 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515186001\_P\_AG:48 | 223 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 150 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515206001\_P\_AG:36 | 159 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515221001\_P\_AG:45 | 250 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 102 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515244001\_P\_AG:36 | 144 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 223 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515280001\_P\_AG:41 | 104 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 162 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_515308001\_P\_AG:45 | 101 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715006001\_P\_AG:37 | 113 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715063001\_P\_AG:47 | 168 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715064001\_P\_AG:40 | 180 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715069001\_P\_AG:46 | 149 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715071001\_P\_AG:42 | 142 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715087001\_P\_AG:37 | 161 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_715184001\_P\_AG:41 | 229 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018006001\_C\_AG:42 | 133 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018009001\_C\_AG:48 | 210 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 111 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018024001\_C\_AG:44 | 265 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018027001\_C\_AG:41 | 300 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018059001\_C\_AG:50 | 132 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_4018066001\_C\_AG:46 | 314 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418117001\_C\_AG:48 | 219 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418118001\_C\_AG:50 | 108 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418121001\_C\_AG:45 | 198 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418122001\_C\_AG:50 | 143 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 129 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418124001\_C\_AG:32 | 129 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418125001\_C\_AG:42 | 242 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418127001\_C\_AG:48 | 254 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418128001\_C\_AG:41 | 207 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418134001\_C\_AG:41 | 103 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418136001\_C\_AG:40 | 152 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418137001\_C\_AG:42 | 168 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418139001\_C\_AG:47 | 161 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418142001\_C\_AG:37 | 153 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418144001\_C\_AG:46 | 126 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418146001\_C\_AG:47 | 148 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418148001\_C\_AG:50 | 270 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418156001\_C\_AG:40 | 158 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418159001\_C\_AG:42 | 151 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418160001\_C\_AG:47 | 156 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418165001\_C\_AG:45 | 227 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418167001\_C\_AG:33 | 151 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418169001\_C\_AG:45 | 178 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418171001\_C\_AG:28 | 164 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418178001\_C\_AG:28 | 126 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418181001\_C\_AG:46 | 131 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418182001\_C\_AG:33 | 113 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418185001\_C\_AG:38 | 140 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418195001\_C\_AG:43 | 140 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418197001\_C\_AG:50 | 239 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418300001\_C\_AG:40 | 246 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418306001\_C\_AG:35 | 113 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418352001\_C\_AG:50 | 195 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418361001\_C\_AG:50 | 212 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G |  | 123 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418698001\_C\_AG:43 | 129 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418701001\_C\_AG:45 | 217 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418739001\_C\_AG:50 | 200 |  |
| SDCCAG8\_Exon15 | rs10927011 | Glu575= | ref=G | TH\_418748001\_C\_AG:44 | 289 |  |
| SDCCAG8\_Exon16 |  | Thr605= | ref=A | hetero=TH\_515095001\_P\_AG:50 | score=356 |  |
| SDCCAG8\_Exon3 |  | Ser89= | ref=T | hetero=TH\_418170001\_C\_AG:42 | score=228 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_1315347001\_P\_AG:47 | score=263 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_1715093001\_P\_AG:50 | score=232 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_1815408001\_P\_AG:48 | score=330 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_515106001\_P\_AG:40 | score=294 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_515213001\_P\_AG:43 | score=303 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_4018036001\_C\_AG:38 | score=112 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_418147001\_C\_AG:31 | score=109 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_418161001\_C\_AG:50 | score=112 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_418164001\_C\_AG:34 | score=161 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_418344001\_C\_AG:47 | score=166 |  |
| SDCCAG8\_Exon8 | rs976529 | Thr304= | ref=C | hetero=TH\_418358001\_C\_AG:44 | score=252 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 114 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1315249001\_P\_AG:36 | 126 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1315342001\_P\_AG:33 | 171 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 105 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 120 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1415117001\_P\_AG:45 | 256 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 138 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 135 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1415145001\_P\_AG:48 | 349 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1415146001\_P\_AG:35 | 119 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1415154001\_P\_AG:41 | 132 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715003001\_P\_AG:48 | 330 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 129 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715012001\_P\_AG:40 | 222 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 223 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 226 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 144 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 102 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 211 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 223 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 150 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715053001\_P\_AG:47 | 276 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715067001\_P\_AG:46 | 244 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715073001\_P\_AG:43 | 176 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 109 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715087001\_P\_AG:34 | 169 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1715090001\_P\_AG:43 | 146 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815079001\_P\_AG:46 | 269 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815099001\_P\_AG:38 | 233 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815131001\_P\_AG:44 | 258 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815247001\_P\_AG:46 | 277 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 147 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815261001\_P\_AG:43 | 241 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815268001\_P\_AG:46 | 300 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815272001\_P\_AG:41 | 169 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 152 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815313001\_P\_AG:39 | 192 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815349001\_P\_AG:47 | 228 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815396001\_P\_AG:45 | 246 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815408001\_P\_AG:47 | 265 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815443001\_P\_AG:47 | 162 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_1815484001\_P\_AG:46 | 319 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 117 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515015001\_P\_AG:42 | 241 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515016001\_P\_AG:40 | 149 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515018001\_P\_AG:45 | 246 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515035001\_P\_AG:40 | 209 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515037001\_P\_AG:43 | 304 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515039001\_P\_AG:43 | 293 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515055001\_P\_AG:37 | 174 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515062001\_P\_AG:38 | 148 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515074001\_P\_AG:37 | 242 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 162 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515080001\_P\_AG:36 | 123 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 143 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 205 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515106001\_P\_AG:31 | 193 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 150 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515121001\_P\_AG:49 | 334 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 108 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515151001\_P\_AG:37 | 218 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515162001\_P\_AG:45 | 302 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515164001\_P\_AG:46 | 316 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515178001\_P\_AG:33 | 128 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515188001\_P\_AG:42 | 249 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 174 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515201001\_P\_AG:45 | 186 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 144 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 111 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515213001\_P\_AG:40 | 163 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515215001\_P\_AG:42 | 309 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515221001\_P\_AG:45 | 290 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515223001\_P\_AG:48 | 287 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 153 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515247001\_P\_AG:45 | 343 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515280001\_P\_AG:43 | 183 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515294001\_P\_AG:45 | 333 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_515308001\_P\_AG:46 | 136 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715063001\_P\_AG:37 | 115 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715064001\_P\_AG:40 | 155 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715069001\_P\_AG:26 | 100 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715086001\_P\_AG:50 | 152 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715089001\_P\_AG:47 | 130 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715092001\_P\_AG:41 | 194 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 111 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715106001\_P\_AG:50 | 198 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_715184001\_P\_AG:40 | 273 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018001001\_C\_AG:42 | 156 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 105 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018004001\_C\_AG:42 | 184 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 117 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 114 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018010001\_C\_AG:42 | 287 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 102 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 129 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 250 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018027001\_C\_AG:48 | 336 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018046001\_C\_AG:48 | 328 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018050001\_C\_AG:37 | 106 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 132 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 117 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018054001\_C\_AG:41 | 152 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018057001\_C\_AG:50 | 172 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018058001\_C\_AG:38 | 127 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_4018066001\_C\_AG:43 | 304 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418117001\_C\_AG:41 | 229 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 138 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 126 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418123001\_C\_AG:29 | 188 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418124001\_C\_AG:43 | 174 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418127001\_C\_AG:42 | 273 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418128001\_C\_AG:41 | 249 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418132001\_C\_AG:45 | 105 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418135001\_C\_AG:36 | 175 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 111 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418137001\_C\_AG:46 | 194 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418139001\_C\_AG:38 | 161 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418141001\_C\_AG:36 | 119 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 126 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418144001\_C\_AG:36 | 168 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418146001\_C\_AG:45 | 217 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418148001\_C\_AG:24 | 135 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418156001\_C\_AG:32 | 164 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418159001\_C\_AG:33 | 119 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418163001\_C\_AG:46 | 119 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 117 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418165001\_C\_AG:50 | 244 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 132 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 132 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418171001\_C\_AG:35 | 253 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418178001\_C\_AG:34 | 145 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418182001\_C\_AG:47 | 162 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418195001\_C\_AG:35 | 196 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418198001\_C\_AG:44 | 146 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418300001\_C\_AG:46 | 369 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418304001\_C\_AG:47 | 338 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418344001\_C\_AG:50 | 180 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 114 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418357001\_C\_AG:34 | 193 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418358001\_C\_AG:47 | 193 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418360001\_C\_AG:41 | 232 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418361001\_C\_AG:36 | 138 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 193 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418692001\_C\_AG:48 | 260 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 105 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T |  | 135 |  |
| TBC1D1\_Exon1 | rs2279027 | Ser14Pro | ref=T | TH\_418748001\_C\_AG:44 | 351 |  |
| TBC1D1\_Exon1 | rs145529203 | Asp121= | ref=C | hetero=TH\_715104001\_P\_AG:41 | score=188 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | hetero=TH\_1315006001\_P\_AG:50 | score=104 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1315318001\_P\_AG:44 | 158 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415010001\_P\_AG:31 | 105 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415115001\_P\_AG:34 | 172 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415117001\_P\_AG:38 | 238 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415121001\_P\_AG:48 | 305 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415146001\_P\_AG:47 | 171 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1415154001\_P\_AG:46 | 199 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715003001\_P\_AG:49 | 303 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715005001\_P\_AG:43 | 217 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715012001\_P\_AG:43 | 256 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 126 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715022001\_P\_AG:39 | 269 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715029001\_P\_AG:40 | 129 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 105 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715034001\_P\_AG:41 | 310 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715050001\_P\_AG:50 | 287 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715051001\_P\_AG:35 | 191 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715053001\_P\_AG:32 | 206 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715067001\_P\_AG:50 | 221 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 108 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1715091001\_P\_AG:42 | 154 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815247001\_P\_AG:50 | 317 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815251001\_P\_AG:38 | 226 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815261001\_P\_AG:46 | 255 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815313001\_P\_AG:50 | 186 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815408001\_P\_AG:45 | 253 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_1815484001\_P\_AG:49 | 327 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515015001\_P\_AG:47 | 294 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515016001\_P\_AG:42 | 122 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515018001\_P\_AG:33 | 162 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515055001\_P\_AG:50 | 172 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515062001\_P\_AG:36 | 179 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515074001\_P\_AG:48 | 234 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 238 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515114001\_P\_AG:42 | 287 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515121001\_P\_AG:48 | 287 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 102 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515162001\_P\_AG:45 | 327 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515175001\_P\_AG:37 | 162 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515185001\_P\_AG:48 | 223 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515201001\_P\_AG:38 | 176 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515244001\_P\_AG:39 | 245 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 105 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515294001\_P\_AG:46 | 334 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_515333001\_P\_AG:44 | 206 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_715063001\_P\_AG:40 | 120 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_715069001\_P\_AG:26 | 101 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_715088001\_P\_AG:45 | 202 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_715104001\_P\_AG:41 | 187 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_715184001\_P\_AG:47 | 300 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018004001\_C\_AG:37 | 161 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018009001\_C\_AG:32 | 187 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018010001\_C\_AG:41 | 300 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018012001\_C\_AG:45 | 232 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018015001\_C\_AG:33 | 159 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018024001\_C\_AG:50 | 327 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_4018052001\_C\_AG:43 | 229 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418117001\_C\_AG:45 | 253 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418121001\_C\_AG:29 | 188 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418122001\_C\_AG:45 | 263 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418124001\_C\_AG:41 | 217 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418127001\_C\_AG:41 | 275 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418133001\_C\_AG:46 | 201 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418134001\_C\_AG:35 | 108 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418135001\_C\_AG:43 | 209 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418136001\_C\_AG:46 | 231 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418143001\_C\_AG:33 | 139 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418144001\_C\_AG:33 | 122 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418152001\_C\_AG:50 | 118 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418157001\_C\_AG:47 | 162 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418164001\_C\_AG:37 | 229 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418170001\_C\_AG:48 | 303 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418171001\_C\_AG:21 | 126 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418175001\_C\_AG:36 | 153 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418185001\_C\_AG:40 | 166 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418196001\_C\_AG:45 | 167 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418304001\_C\_AG:35 | 280 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418359001\_C\_AG:36 | 134 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T | TH\_418683001\_C\_AG:47 | 289 |  |
| TBC1D1\_Exon1 | rs2279026 | Ala122= | ref=T |  | 120 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715012001\_P\_AG:40 | 237 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715015001\_P\_AG:46 | 224 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715030001\_P\_AG:48 | 205 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715034001\_P\_AG:40 | 306 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715051001\_P\_AG:37 | 211 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715067001\_P\_AG:41 | 202 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1715093001\_P\_AG:29 | 119 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1815313001\_P\_AG:50 | 191 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1815408001\_P\_AG:41 | 257 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1815410001\_P\_AG:43 | 144 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_1815484001\_P\_AG:45 | 305 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515016001\_P\_AG:40 | 118 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515055001\_P\_AG:45 | 156 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515074001\_P\_AG:45 | 229 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515114001\_P\_AG:42 | 282 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515121001\_P\_AG:49 | 302 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515132001\_P\_AG:34 | 130 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515162001\_P\_AG:50 | 341 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515185001\_P\_AG:44 | 204 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_515333001\_P\_AG:44 | 197 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_715088001\_P\_AG:47 | 202 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_715184001\_P\_AG:48 | 296 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_4018004001\_C\_AG:40 | 181 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_4018012001\_C\_AG:47 | 232 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_4018015001\_C\_AG:39 | 202 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C |  | 102 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418117001\_C\_AG:39 | 216 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418122001\_C\_AG:41 | 243 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418127001\_C\_AG:41 | 269 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418134001\_C\_AG:33 | 106 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418136001\_C\_AG:44 | 218 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418143001\_C\_AG:36 | 164 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418152001\_C\_AG:50 | 119 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418157001\_C\_AG:50 | 165 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418164001\_C\_AG:43 | 254 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418171001\_C\_AG:22 | 145 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418175001\_C\_AG:32 | 144 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418196001\_C\_AG:47 | 198 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418304001\_C\_AG:38 | 298 |  |
| TBC1D1\_Exon1 | rs35859249 | Arg125Trp | ref=C | TH\_418683001\_C\_AG:47 | 288 |  |
| TBC1D1\_Exon12 | rs145177739 | Gln619Arg | ref=A | hetero=TH\_515039001\_P\_AG:38 | score=221 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | hetero=TH\_1315304001\_P\_AG:48 | score=285 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1315376001\_P\_AG:33 | 136 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1415120001\_P\_AG:31 | 244 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1415146001\_P\_AG:40 | 182 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715012001\_P\_AG:40 | 257 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715065001\_P\_AG:50 | 249 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715070001\_P\_AG:50 | 121 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715087001\_P\_AG:48 | 231 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715090001\_P\_AG:40 | 189 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715091001\_P\_AG:46 | 224 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715093001\_P\_AG:46 | 207 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1715101001\_P\_AG:46 | 212 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815221001\_P\_AG:44 | 250 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815231001\_P\_AG:32 | 131 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815278001\_P\_AG:47 | 341 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815313001\_P\_AG:41 | 235 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815333001\_P\_AG:43 | 180 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815349001\_P\_AG:45 | 300 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_1815443001\_P\_AG:45 | 199 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515003001\_P\_AG:43 | 238 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515016001\_P\_AG:34 | 170 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515037001\_P\_AG:42 | 339 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515185001\_P\_AG:37 | 164 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515223001\_P\_AG:39 | 265 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515285001\_P\_AG:46 | 272 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_515296001\_P\_AG:48 | 245 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_715006001\_P\_AG:38 | 171 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_715088001\_P\_AG:36 | 158 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018003001\_C\_AG:50 | 303 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018005001\_C\_AG:45 | 271 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C |  | 156 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018023001\_C\_AG:47 | 323 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018046001\_C\_AG:45 | 335 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018050001\_C\_AG:43 | 176 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018051001\_C\_AG:45 | 307 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018057001\_C\_AG:43 | 217 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_4018095001\_C\_AG:45 | 158 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418121001\_C\_AG:50 | 258 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418125001\_C\_AG:38 | 281 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418134001\_C\_AG:48 | 241 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418139001\_C\_AG:38 | 187 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418141001\_C\_AG:50 | 147 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418144001\_C\_AG:44 | 289 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418146001\_C\_AG:44 | 215 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418147001\_C\_AG:39 | 199 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418170001\_C\_AG:42 | 277 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418175001\_C\_AG:38 | 124 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418300001\_C\_AG:32 | 214 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418302001\_C\_AG:39 | 196 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418361001\_C\_AG:43 | 236 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418683001\_C\_AG:49 | 309 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418739001\_C\_AG:37 | 268 |  |
| TBC1D1\_Exon14 | rs58983546 | Arg695Cys | ref=C | TH\_418748001\_C\_AG:45 | 366 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_1715101001\_P\_AG:45 | 106 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_1815221001\_P\_AG:33 | 132 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_1815251001\_P\_AG:44 | 188 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_1815261001\_P\_AG:39 | 158 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515091001\_P\_AG:37 | 106 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515095001\_P\_AG:44 | 134 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515121001\_P\_AG:47 | 201 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515175001\_P\_AG:50 | 123 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515178001\_P\_AG:50 | 143 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_515262001\_P\_AG:33 | 122 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G |  | 108 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_715071001\_P\_AG:50 | 125 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_715184001\_P\_AG:37 | 183 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_4018012001\_C\_AG:42 | 203 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_4018046001\_C\_AG:48 | 296 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_418122001\_C\_AG:41 | 132 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_418133001\_C\_AG:43 | 143 |  |
| TBC1D1\_Exon16 | rs16994165 | Ser159= | ref=G | TH\_418167001\_C\_AG:38 | 113 |  |
| TBC1D1\_Exon19 |  | Leu838Val | ref=T | hetero=TH\_515035001\_P\_AG:48 | score=253 |  |
| TBC1D1\_Exon23 |  | Arg1091His | ref=G | hetero=TH\_1715040001\_P\_AG:47 | score=182 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | hetero=TH\_1715034001\_P\_AG:42 | score=175 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | TH\_515035001\_P\_AG:40 | 116 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | TH\_515095001\_P\_AG:42 | 106 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | TH\_515215001\_P\_AG:46 | 134 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | TH\_515221001\_P\_AG:40 | 104 |  |
| TBC1D1\_Exon24 | rs13110318 | Arg1136Gln | ref=G | TH\_418136001\_C\_AG:42 | 157 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | hetero=TH\_1715034001\_P\_AG:50 | score=365 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_515099001\_P\_AG:47 | 178 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_515148001\_P\_AG:50 | 140 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_715006001\_P\_AG:31 | 100 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_715039001\_P\_AG:40 | 117 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_4018015001\_C\_AG:50 | 167 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_418157001\_C\_AG:47 | 157 |  |
| TBC1D1\_Exon6 | rs112261209 | Arg327Lys | ref=G | TH\_418360001\_C\_AG:50 | 319 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | hetero=TH\_1715003001\_P\_AG:40 | score=171 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_1715051001\_P\_AG:43 | 128 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_1815099001\_P\_AG:31 | 110 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_1815337001\_P\_AG:46 | 190 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_515091001\_P\_AG:34 | 174 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_715064001\_P\_AG:40 | 152 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_715095001\_P\_AG:46 | 118 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_418165001\_C\_AG:31 | 119 |  |
| TBC1D1\_Exon7 | rs61731607 | Ala384Pro | ref=G | TH\_418300001\_C\_AG:47 | 326 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | hetero=TH\_1715003001\_P\_AG:40 | score=160 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_1715051001\_P\_AG:50 | 142 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_1815099001\_P\_AG:47 | 151 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_1815337001\_P\_AG:43 | 170 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_515091001\_P\_AG:41 | 200 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_715064001\_P\_AG:34 | 103 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_418165001\_C\_AG:33 | 105 |  |
| TBC1D1\_Exon7 | rs61731610 | Gly389Ser | ref=G | TH\_418300001\_C\_AG:41 | 305 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_1415121001\_P\_AG:42 | 206 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_1715012001\_P\_AG:50 | 157 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_1715034001\_P\_AG:44 | 226 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_1715090001\_P\_AG:47 | 160 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C |  | 105 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515003001\_P\_AG:43 | 136 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515046001\_P\_AG:42 | 106 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515055001\_P\_AG:42 | 109 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515078001\_P\_AG:47 | 226 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515112001\_P\_AG:42 | 239 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515114001\_P\_AG:42 | 186 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C |  | 150 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_515262001\_P\_AG:47 | 155 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_715184001\_P\_AG:41 | 199 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_4018012001\_C\_AG:32 | 117 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_4018015001\_C\_AG:46 | 114 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418119001\_C\_AG:50 | 158 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418127001\_C\_AG:40 | 157 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418137001\_C\_AG:38 | 100 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418143001\_C\_AG:46 | 113 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418147001\_C\_AG:42 | 149 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418164001\_C\_AG:43 | 183 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418178001\_C\_AG:46 | 130 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418344001\_C\_AG:46 | 104 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418361001\_C\_AG:36 | 116 |  |
| TBC1D1\_Exon7 | rs34119528 | Pro391= | ref=C | TH\_418701001\_C\_AG:44 | 215 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | hetero=TH\_1715029001\_P\_AG:43 | score=138 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_1715051001\_P\_AG:40 | 257 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_1715053001\_P\_AG:47 | 301 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_515062001\_P\_AG:41 | 145 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_515112001\_P\_AG:47 | 313 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_515333001\_P\_AG:39 | 164 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_715088001\_P\_AG:47 | 159 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_715089001\_P\_AG:37 | 122 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_4018097001\_C\_AG:40 | 103 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418166001\_C\_AG:25 | 104 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418171001\_C\_AG:23 | 169 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418178001\_C\_AG:42 | 200 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418304001\_C\_AG:41 | 291 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418344001\_C\_AG:47 | 211 |  |
| TBC1D1\_Exon8 | rs112435875 | Leu418= | ref=G | TH\_418683001\_C\_AG:48 | 273 |  |
| TBC1D1\_Exon9 |  | Arg443Stop bzw. Sec | ref=C | hetero=TH\_515078001\_P\_AG:37 | score=230 |  |
| TBC1D1\_Exon9 |  | Glu468= | ref=G | hetero=TH\_1315200001\_P\_AG:37 | score=172 |  |
| TMEM18\_Exon1 | rs3210390 | Val17= | ref=C | TH\_1815408001\_P\_AG:46 | 100 |  |
| TMEM18\_Exon1 | rs3210390 | Val17= | ref=C | TH\_418300001\_C\_AG:31 | 101 |  |
| TNKS\_Exon1 | rs33985989 | Ser142= | ref=T | TH\_1715034001\_P\_AG:43 | 203 |  |
| TNKS\_Exon1 | rs33985989 | Ser142= | ref=T | TH\_1815349001\_P\_AG:36 | 122 |  |
| TNKS\_Exon1 | rs33985989 | Ser142= | ref=T | TH\_418304001\_C\_AG:47 | 243 |  |
| TNKS\_Exon1 | rs35433754 | Ser148= | ref=G | hetero=TH\_1715022001\_P\_AG:38 | score=116 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | hetero=TH\_1315304001\_P\_AG:36 | score=119 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1415120001\_P\_AG:43 | 113 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1715050001\_P\_AG:48 | 195 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1715105001\_P\_AG:47 | 125 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815079001\_P\_AG:42 | 127 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815131001\_P\_AG:44 | 140 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815221001\_P\_AG:50 | 111 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815261001\_P\_AG:47 | 124 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815268001\_P\_AG:37 | 160 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815284001\_P\_AG:39 | 131 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815293001\_P\_AG:28 | 101 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815337001\_P\_AG:43 | 173 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_1815484001\_P\_AG:38 | 181 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515003001\_P\_AG:42 | 113 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515015001\_P\_AG:39 | 121 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515078001\_P\_AG:48 | 200 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515091001\_P\_AG:41 | 131 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G |  | 111 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515151001\_P\_AG:50 | 175 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515162001\_P\_AG:41 | 221 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515164001\_P\_AG:33 | 142 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515165001\_P\_AG:43 | 267 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515206001\_P\_AG:47 | 147 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515213001\_P\_AG:38 | 119 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_515247001\_P\_AG:50 | 286 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_715006001\_P\_AG:40 | 109 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_715184001\_P\_AG:48 | 222 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_4018023001\_C\_AG:45 | 151 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_4018024001\_C\_AG:41 | 174 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_4018027001\_C\_AG:45 | 293 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418122001\_C\_AG:35 | 107 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G |  | 108 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418124001\_C\_AG:50 | 129 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418125001\_C\_AG:50 | 185 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418136001\_C\_AG:50 | 164 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418148001\_C\_AG:31 | 169 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418159001\_C\_AG:38 | 145 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418160001\_C\_AG:42 | 110 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418167001\_C\_AG:41 | 119 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418168001\_C\_AG:47 | 146 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418171001\_C\_AG:48 | 219 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418300001\_C\_AG:45 | 313 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418352001\_C\_AG:50 | 157 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418360001\_C\_AG:44 | 180 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418683001\_C\_AG:45 | 212 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418701001\_C\_AG:38 | 124 |  |
| TNKS\_Exon1 | rs33945943 | Arg200= | ref=G | TH\_418748001\_C\_AG:46 | 296 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1315304001\_P\_AG:48 | 283 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1315332001\_P\_AG:30 | 113 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1415117001\_P\_AG:39 | 225 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1415120001\_P\_AG:49 | 275 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715015001\_P\_AG:46 | 279 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715041001\_P\_AG:46 | 113 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715050001\_P\_AG:49 | 304 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715053001\_P\_AG:42 | 251 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715091001\_P\_AG:42 | 110 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715093001\_P\_AG:26 | 105 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1715105001\_P\_AG:44 | 199 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815079001\_P\_AG:48 | 273 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815131001\_P\_AG:42 | 199 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815163001\_P\_AG:37 | 100 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815221001\_P\_AG:40 | 187 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815247001\_P\_AG:35 | 255 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815261001\_P\_AG:40 | 254 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815268001\_P\_AG:45 | 320 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815272001\_P\_AG:32 | 138 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815284001\_P\_AG:47 | 298 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G |  | 150 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815293001\_P\_AG:35 | 243 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815307001\_P\_AG:40 | 119 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815313001\_P\_AG:42 | 151 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815337001\_P\_AG:46 | 261 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_1815484001\_P\_AG:44 | 315 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515003001\_P\_AG:43 | 218 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515015001\_P\_AG:39 | 216 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515078001\_P\_AG:42 | 260 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515091001\_P\_AG:40 | 299 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G |  | 193 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515151001\_P\_AG:38 | 215 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515158001\_P\_AG:45 | 100 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515162001\_P\_AG:47 | 327 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515164001\_P\_AG:48 | 333 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515165001\_P\_AG:41 | 331 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515186001\_P\_AG:45 | 254 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515206001\_P\_AG:44 | 188 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515213001\_P\_AG:43 | 205 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515247001\_P\_AG:50 | 359 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515303001\_P\_AG:42 | 138 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_515333001\_P\_AG:43 | 178 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_715006001\_P\_AG:48 | 195 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_715069001\_P\_AG:40 | 141 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_715088001\_P\_AG:39 | 161 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G |  | 117 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_715184001\_P\_AG:33 | 243 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G |  | 129 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018014001\_C\_AG:36 | 111 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018023001\_C\_AG:44 | 225 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018024001\_C\_AG:49 | 320 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018027001\_C\_AG:43 | 329 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018051001\_C\_AG:50 | 295 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018059001\_C\_AG:46 | 130 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_4018066001\_C\_AG:40 | 296 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418122001\_C\_AG:40 | 228 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G |  | 168 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418124001\_C\_AG:42 | 168 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418125001\_C\_AG:39 | 276 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418135001\_C\_AG:45 | 221 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418136001\_C\_AG:33 | 138 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418140001\_C\_AG:40 | 115 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418148001\_C\_AG:31 | 236 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418158001\_C\_AG:46 | 125 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418159001\_C\_AG:50 | 217 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418160001\_C\_AG:37 | 172 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418163001\_C\_AG:45 | 199 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418167001\_C\_AG:50 | 248 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418168001\_C\_AG:45 | 212 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418171001\_C\_AG:45 | 325 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418193001\_C\_AG:44 | 177 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418300001\_C\_AG:34 | 292 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418302001\_C\_AG:42 | 163 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418340001\_C\_AG:43 | 119 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418344001\_C\_AG:42 | 155 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418352001\_C\_AG:40 | 171 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418360001\_C\_AG:39 | 253 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418683001\_C\_AG:48 | 310 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418692001\_C\_AG:48 | 248 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418698001\_C\_AG:41 | 197 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418701001\_C\_AG:40 | 238 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418742001\_C\_AG:34 | 142 |  |
| TNKS\_Exon1 | rs34790717 | Gly237Ala | ref=G | TH\_418748001\_C\_AG:50 | 367 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | hetero=TH\_1315304001\_P\_AG:33 | score=193 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1715064001\_P\_AG:41 | 197 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815241001\_P\_AG:39 | 203 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815261001\_P\_AG:37 | 208 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815272001\_P\_AG:33 | 102 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815285001\_P\_AG:41 | 267 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815337001\_P\_AG:30 | 186 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_1815484001\_P\_AG:47 | 329 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_515078001\_P\_AG:47 | 251 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_515091001\_P\_AG:30 | 183 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_515164001\_P\_AG:48 | 330 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_715184001\_P\_AG:44 | 277 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_4018023001\_C\_AG:47 | 275 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_4018027001\_C\_AG:50 | 342 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_4018051001\_C\_AG:45 | 265 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418123001\_C\_AG:46 | 284 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418124001\_C\_AG:32 | 136 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418135001\_C\_AG:46 | 227 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418136001\_C\_AG:45 | 192 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418148001\_C\_AG:17 | 102 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418163001\_C\_AG:35 | 111 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418193001\_C\_AG:35 | 111 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418360001\_C\_AG:44 | 224 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418692001\_C\_AG:34 | 135 |  |
| TNKS\_Exon11 | rs35052906 | Val573= | ref=C | TH\_418698001\_C\_AG:34 | 162 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 150 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 141 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 123 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 126 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T | hetero=TH\_1415121001\_P\_AG:44 | 252 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 334 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 184 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 141 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 117 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 214 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 159 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 168 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 238 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 153 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 132 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 117 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 108 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 111 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 111 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 135 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 138 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 108 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 108 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 165 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 123 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 193 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 114 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 114 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 118 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 150 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 117 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 126 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 134 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 147 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 141 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 120 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 129 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 238 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 171 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 104 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 132 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 190 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 153 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 126 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 187 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 214 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 298 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 144 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 114 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 193 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 144 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 135 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 117 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 313 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 174 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 199 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 412 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 120 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 111 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 141 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 108 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 208 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 138 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 149 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 415 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 246 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 129 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 346 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 111 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 132 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 129 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 119 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 129 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 153 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 171 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 147 |  |
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| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 168 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 574 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 161 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 102 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 120 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 126 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 147 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 105 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 122 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 123 |  |
| TNKS\_Exon12 | rs6601360 | Gly602= | ref=T |  | 428 |  |
| TNKS\_Exon16 | rs61752022 | Thr777= | ref=T | hetero=TH\_515074001\_P\_AG:50 | score=166 |  |
| TNKS\_Exon16 | rs61752022 | Thr777= | ref=T | hetero=TH\_515294001\_P\_AG:43 | score=232 |  |
| TNKS\_Exon16 | rs61752022 | Thr777= | ref=T | hetero=TH\_715092001\_P\_AG:46 | score=118 |  |
| TNKS\_Exon16 | rs61752022 | Thr777= | ref=T | hetero=TH\_418748001\_C\_AG:46 | score=332 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1315332001\_P\_AG:45 | 187 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1315347001\_P\_AG:35 | 169 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1315376001\_P\_AG:42 | 172 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1415117001\_P\_AG:46 | 218 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1415120001\_P\_AG:43 | 247 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1415121001\_P\_AG:50 | 273 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715015001\_P\_AG:36 | 174 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715050001\_P\_AG:44 | 252 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715053001\_P\_AG:42 | 246 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715064001\_P\_AG:44 | 115 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715091001\_P\_AG:50 | 127 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1715101001\_P\_AG:40 | 156 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815079001\_P\_AG:37 | 212 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815131001\_P\_AG:31 | 100 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815221001\_P\_AG:38 | 135 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G |  | 162 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815268001\_P\_AG:36 | 258 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815284001\_P\_AG:28 | 147 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815285001\_P\_AG:39 | 189 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815293001\_P\_AG:37 | 231 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815313001\_P\_AG:44 | 180 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_1815410001\_P\_AG:40 | 107 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515003001\_P\_AG:50 | 140 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515015001\_P\_AG:46 | 234 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515035001\_P\_AG:43 | 212 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515037001\_P\_AG:45 | 321 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515046001\_P\_AG:40 | 115 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515080001\_P\_AG:43 | 204 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G |  | 165 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515151001\_P\_AG:35 | 179 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515162001\_P\_AG:49 | 317 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515165001\_P\_AG:49 | 347 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515175001\_P\_AG:35 | 110 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515178001\_P\_AG:45 | 186 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515186001\_P\_AG:43 | 208 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515206001\_P\_AG:30 | 123 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515211001\_P\_AG:50 | 200 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515213001\_P\_AG:47 | 272 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515247001\_P\_AG:47 | 343 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515303001\_P\_AG:40 | 114 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_515333001\_P\_AG:46 | 109 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_715069001\_P\_AG:33 | 149 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_4018014001\_C\_AG:45 | 156 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_4018059001\_C\_AG:47 | 148 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418122001\_C\_AG:37 | 156 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418123001\_C\_AG:45 | 246 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418125001\_C\_AG:46 | 232 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418140001\_C\_AG:45 | 203 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418141001\_C\_AG:42 | 125 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418156001\_C\_AG:46 | 216 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418159001\_C\_AG:50 | 139 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G |  | 108 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418167001\_C\_AG:47 | 244 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418168001\_C\_AG:37 | 104 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418171001\_C\_AG:49 | 331 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418300001\_C\_AG:48 | 359 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418302001\_C\_AG:40 | 137 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418340001\_C\_AG:50 | 152 |  |
| TNKS\_Exon19 | rs13265931 | Ala1015= | ref=G | TH\_418344001\_C\_AG:50 | 106 |  |
| TNKS\_Exon2 |  | Pro275Ala | ref=C | hetero=TH\_1715050001\_P\_AG:48 | score=336 |  |
| TNKS\_Exon22 |  | Asn1103= | ref=T | hetero=TH\_418319001\_C\_AG:36 | score=131 |  |
| TNKS\_Exon26 |  | His1270= | ref=C | hetero=TH\_1415154001\_P\_AG:42 | score=163 |  |
| TNKS\_Exon7 |  | Val417= | ref=C | hetero=TH\_1715048001\_P\_AG:48 | score=367 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | hetero=TH\_1315304001\_P\_AG:48 | 202 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1315332001\_P\_AG:36 | 148 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 181 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1315347001\_P\_AG:39 | 208 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1315376001\_P\_AG:42 | 125 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1415112001\_P\_AG:39 | 151 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 108 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1415116001\_P\_AG:42 | 104 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1415117001\_P\_AG:40 | 230 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1415121001\_P\_AG:41 | 279 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 328 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 241 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715005001\_P\_AG:44 | 126 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 108 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 217 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 196 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715029001\_P\_AG:47 | 148 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715034001\_P\_AG:34 | 270 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715040001\_P\_AG:50 | 159 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 277 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715050001\_P\_AG:48 | 280 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 123 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715053001\_P\_AG:45 | 252 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715054001\_P\_AG:47 | 177 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 120 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715091001\_P\_AG:45 | 100 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1715093001\_P\_AG:45 | 166 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 120 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 111 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815079001\_P\_AG:40 | 224 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 138 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815131001\_P\_AG:46 | 247 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815163001\_P\_AG:50 | 147 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815221001\_P\_AG:42 | 139 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815241001\_P\_AG:45 | 251 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 165 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815261001\_P\_AG:38 | 232 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815268001\_P\_AG:50 | 334 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815278001\_P\_AG:36 | 241 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815284001\_P\_AG:46 | 301 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815293001\_P\_AG:44 | 311 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815307001\_P\_AG:45 | 167 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815337001\_P\_AG:48 | 246 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 162 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 138 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_1815484001\_P\_AG:46 | 301 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515015001\_P\_AG:48 | 255 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515016001\_P\_AG:38 | 153 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515018001\_P\_AG:34 | 175 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515035001\_P\_AG:47 | 269 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515037001\_P\_AG:46 | 338 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515039001\_P\_AG:36 | 250 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515046001\_P\_AG:36 | 148 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515062001\_P\_AG:43 | 184 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515074001\_P\_AG:48 | 284 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515078001\_P\_AG:37 | 204 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515091001\_P\_AG:41 | 241 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 206 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 102 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 153 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515112001\_P\_AG:39 | 278 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 171 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515151001\_P\_AG:45 | 260 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515162001\_P\_AG:49 | 320 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515164001\_P\_AG:49 | 327 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515165001\_P\_AG:44 | 345 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515167001\_P\_AG:47 | 180 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515178001\_P\_AG:41 | 214 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515186001\_P\_AG:42 | 233 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 156 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 193 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515201001\_P\_AG:34 | 157 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 126 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515206001\_P\_AG:43 | 170 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515211001\_P\_AG:45 | 190 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515215001\_P\_AG:44 | 320 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 153 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515223001\_P\_AG:50 | 232 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515247001\_P\_AG:50 | 343 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515277001\_P\_AG:44 | 162 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515280001\_P\_AG:43 | 135 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515285001\_P\_AG:43 | 147 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515293001\_P\_AG:47 | 324 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515294001\_P\_AG:43 | 324 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515308001\_P\_AG:30 | 109 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_515333001\_P\_AG:42 | 156 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 114 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_715069001\_P\_AG:47 | 163 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 135 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_715088001\_P\_AG:42 | 122 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_715089001\_P\_AG:42 | 179 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_715092001\_P\_AG:48 | 218 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_715184001\_P\_AG:39 | 264 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 153 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 108 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018006001\_C\_AG:47 | 248 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 196 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 156 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018014001\_C\_AG:45 | 176 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 120 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018023001\_C\_AG:48 | 267 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018024001\_C\_AG:44 | 326 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018027001\_C\_AG:47 | 350 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 286 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018051001\_C\_AG:44 | 241 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 111 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018057001\_C\_AG:38 | 138 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018059001\_C\_AG:45 | 166 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_4018060001\_C\_AG:50 | 114 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 397 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 108 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 156 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 102 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418122001\_C\_AG:47 | 258 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418125001\_C\_AG:47 | 247 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418127001\_C\_AG:36 | 238 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418133001\_C\_AG:42 | 208 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418135001\_C\_AG:43 | 177 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418136001\_C\_AG:46 | 227 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 117 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418140001\_C\_AG:26 | 101 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418141001\_C\_AG:31 | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418142001\_C\_AG:44 | 229 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418144001\_C\_AG:42 | 183 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 111 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418148001\_C\_AG:20 | 119 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418156001\_C\_AG:40 | 149 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418158001\_C\_AG:38 | 142 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418159001\_C\_AG:31 | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 126 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418165001\_C\_AG:50 | 256 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418167001\_C\_AG:45 | 225 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418168001\_C\_AG:29 | 123 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 111 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 147 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418171001\_C\_AG:31 | 232 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418175001\_C\_AG:40 | 154 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 105 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 114 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418193001\_C\_AG:42 | 120 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418196001\_C\_AG:42 | 201 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 111 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418198001\_C\_AG:42 | 108 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418300001\_C\_AG:48 | 365 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418302001\_C\_AG:36 | 141 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418304001\_C\_AG:41 | 302 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 129 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 117 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418360001\_C\_AG:36 | 228 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418361001\_C\_AG:50 | 208 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 190 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418692001\_C\_AG:31 | 106 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 178 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 135 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A |  | 141 |  |
| TNKS\_Exon8 | rs7006985 | Thr462= | ref=A | TH\_418748001\_C\_AG:43 | 345 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | hetero=TH\_1315304001\_P\_AG:47 | score=268 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1715064001\_P\_AG:43 | 203 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1715093001\_P\_AG:50 | 103 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815241001\_P\_AG:44 | 270 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815261001\_P\_AG:48 | 278 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815272001\_P\_AG:41 | 177 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815285001\_P\_AG:34 | 228 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815337001\_P\_AG:46 | 238 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_1815484001\_P\_AG:44 | 278 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_515078001\_P\_AG:42 | 214 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_515091001\_P\_AG:41 | 258 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_515164001\_P\_AG:48 | 311 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_515175001\_P\_AG:47 | 171 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_715088001\_P\_AG:47 | 149 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_4018023001\_C\_AG:44 | 265 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_4018051001\_C\_AG:42 | 266 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418123001\_C\_AG:47 | 270 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418124001\_C\_AG:47 | 272 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418135001\_C\_AG:33 | 138 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418136001\_C\_AG:33 | 134 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418148001\_C\_AG:32 | 238 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418163001\_C\_AG:48 | 218 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418193001\_C\_AG:47 | 149 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418360001\_C\_AG:40 | 210 |  |
| TNKS\_Exon8 | rs33944167 | Pro478= | ref=G | TH\_418692001\_C\_AG:40 | 121 |  |

All variants in the exonic regions of the screened genes *FTO*, *TMEM18*, *SDCCAG8*, *TKNS*, *MC4R*, *MSRA* and *TBC1D1* in 196 extremely obese children and adolescents and 176 lean adults. Every deviant call from wild type is listed in one line including the probability of heterozygousity (column “Zygosity”) and the score for the overall validity of the variant (column “Score”).