

Table S8. CVE list

| # | Gene Symbol | Cancer gene census | Vogelstein list | Elledge list |
|----|-------------|--------------------|-----------------|--------------|
| 1 | ABCA10 | - | - | 0 |
| 2 | ABCB1 | - | - | 0 |
| 3 | ABI1 | 0 | - | 0 |
| 4 | ABL1 | 0 | 0 | - |
| 5 | ABL2 | 0 | - | - |
| 6 | ACADS | - | - | 0 |
| 7 | ACBD3 | - | - | 0 |
| 8 | ACSL3 | 0 | - | - |
| 9 | ACVR1B | - | 0 | 0 |
| 10 | ACVR2A | - | - | 0 |
| 11 | ADAMTS19 | - | - | 0 |
| 12 | ADRBK2 | - | - | 0 |
| 13 | AF15Q14 | 0 | - | - |
| 14 | AF1Q | 0 | - | - |
| 15 | AF3p21 | 0 | - | - |
| 16 | AF5q31 | 0 | - | - |
| 17 | AFF4 | - | - | 0 |
| 18 | AJUBA | - | - | 0 |
| 19 | AK8 | - | - | 0 |
| 20 | AKAP9 | 0 | - | - |
| 21 | AKT1 | 0 | 0 | 0 |
| 22 | AKT2 | 0 | - | - |
| 23 | ALDH1L2 | - | - | 0 |
| 24 | ALDH2 | 0 | - | - |
| 25 | ALK | 0 | 0 | 0 |
| 26 | ALO17 | 0 | - | - |
| 27 | AMBRA1 | - | - | 0 |
| 28 | AMER1 | - | - | 0 |
| 29 | AMOT | - | - | 0 |
| 30 | ANKRD46 | - | - | 0 |
| 31 | ANO3 | - | - | 0 |
| 32 | AOAH | - | - | 0 |
| 33 | APC | 0 | 0 | 0 |
| 34 | APPBP2 | - | - | 0 |
| 35 | AQP2 | - | - | 0 |
| 36 | AR | - | 0 | - |
| 37 | ARF4 | - | - | 0 |
| 38 | ARHGAP35 | - | - | 0 |
| 39 | ARHGAP5 | - | - | 0 |
| 40 | ARHGEF12 | 0 | - | - |
| 41 | ARHGEF33 | - | - | 0 |
| 42 | ARHH | 0 | - | - |
| 43 | ARID1A | 0 | 0 | 0 |
| 44 | ARID1B | - | 0 | 0 |
| 45 | ARID2 | 0 | 0 | 0 |
| 46 | ARNT | 0 | - | - |

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|----|---------|---|---|---|
| 47 | ASCC3 | - | - | 0 |
| 48 | ASPSCR1 | 0 | - | - |
| 49 | ASXL1 | 0 | 0 | 0 |
| 50 | ASXL2 | - | - | 0 |
| 51 | ATAD2 | - | - | 0 |
| 52 | ATF1 | 0 | - | - |
| 53 | ATG5 | - | - | 0 |
| 54 | ATIC | 0 | - | - |
| 55 | ATM | 0 | 0 | 0 |
| 56 | ATR | - | - | 0 |
| 57 | ATRX | 0 | 0 | 0 |
| 58 | AXIN1 | 0 | 0 | 0 |
| 59 | B2M | - | 0 | 0 |
| 60 | B3GNT5 | - | - | 0 |
| 61 | BAP1 | 0 | 0 | 0 |
| 62 | BAX | - | - | 0 |
| 63 | BCL10 | 0 | - | 0 |
| 64 | BCL11A | 0 | - | - |
| 65 | BCL11B | 0 | - | - |
| 66 | BCL2 | 0 | 0 | - |
| 67 | BCL3 | 0 | - | - |
| 68 | BCL5 | 0 | - | - |
| 69 | BCL6 | 0 | - | - |
| 70 | BCL7A | 0 | - | - |
| 71 | BCL9 | 0 | - | - |
| 72 | BCLAF1 | - | - | 0 |
| 73 | BCOR | 0 | 0 | 0 |
| 74 | BCR | 0 | - | - |
| 75 | BHD | 0 | - | - |
| 76 | BIRC3 | 0 | - | - |
| 77 | BIRC6 | - | - | 0 |
| 78 | BLM | 0 | - | - |
| 79 | BMPR1A | 0 | - | - |
| 80 | BMPR2 | - | - | 0 |
| 81 | BRAF | 0 | 0 | 0 |
| 82 | BRCA1 | 0 | 0 | 0 |
| 83 | BRCA2 | 0 | 0 | 0 |
| 84 | BRD3 | 0 | - | - |
| 85 | BRD4 | 0 | - | - |
| 86 | BRD7 | - | - | 0 |
| 87 | BRE | - | - | 0 |
| 88 | BRIP1 | 0 | - | - |
| 89 | BRSK1 | - | - | 0 |
| 90 | BRWD3 | - | - | 0 |
| 91 | BTBD11 | - | - | 0 |
| 92 | BTBD7 | - | - | 0 |
| 93 | BTG1 | 0 | - | - |
| 94 | BTG3 | - | - | 0 |

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|-----|-----------|---|---|---|
| 95 | BUB1B | 0 | - | - |
| 96 | BZW2 | - | - | 0 |
| 97 | C12orf9 | 0 | - | - |
| 98 | C15orf21 | 0 | - | - |
| 99 | C15orf55 | 0 | - | - |
| 100 | C16orf45 | - | - | 0 |
| 101 | C16orf75 | 0 | - | - |
| 102 | C16orf80 | - | - | 0 |
| 103 | C16orf87 | - | - | 0 |
| 104 | C2CD5 | - | - | 0 |
| 105 | C2orf44 | 0 | - | - |
| 106 | C3orf27 | - | - | 0 |
| 107 | CACNG3 | - | - | 0 |
| 108 | CACUL1 | - | - | 0 |
| 109 | CADPS | - | - | 0 |
| 110 | CAMTA1 | 0 | - | - |
| 111 | CANT1 | 0 | - | - |
| 112 | CAPRIN2 | - | - | 0 |
| 113 | CARD11 | 0 | 0 | - |
| 114 | CARM1 | - | - | 0 |
| 115 | CARS | 0 | - | - |
| 116 | CASP8 | - | 0 | 0 |
| 117 | CBFA2T1 | 0 | - | - |
| 118 | CBFA2T3 | 0 | - | - |
| 119 | CBFB | 0 | - | 0 |
| 120 | CBL | 0 | 0 | - |
| 121 | CBLB | 0 | - | - |
| 122 | CBLC | 0 | - | - |
| 123 | CCAR1 | - | - | 0 |
| 124 | CCDC120 | - | - | 0 |
| 125 | CCDC132 | - | - | 0 |
| 126 | CCDC144NL | - | - | 0 |
| 127 | CCDC36 | - | - | 0 |
| 128 | CCDC38 | - | - | 0 |
| 129 | CCDC6 | 0 | - | - |
| 130 | CCDC88A | - | - | 0 |
| 131 | CCNB1IP1 | 0 | - | - |
| 132 | CCND1 | 0 | 0 | - |
| 133 | CCND2 | 0 | - | - |
| 134 | CCND3 | 0 | - | 0 |
| 135 | CCNE1 | 0 | - | - |
| 136 | CD163 | - | - | 0 |
| 137 | CD273 | 0 | - | - |
| 138 | CD274 | 0 | - | - |
| 139 | CD58 | - | - | 0 |
| 140 | CD74 | 0 | - | - |
| 141 | CD79A | 0 | - | - |
| 142 | CD79B | 0 | - | - |

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|-----|-------------|---|---|---|
| 143 | CDC27 | - | - | 0 |
| 144 | CDC73 | - | 0 | 0 |
| 145 | CDH1 | 0 | 0 | 0 |
| 146 | CDH11 | 0 | - | - |
| 147 | CDH7 | - | - | 0 |
| 148 | CDK12 | 0 | - | 0 |
| 149 | CDK4 | 0 | - | - |
| 150 | CDK6 | 0 | - | - |
| 151 | CDKN1A | - | - | 0 |
| 152 | CDKN1B | - | - | 0 |
| 153 | CDKN2A | 0 | 0 | 0 |
| 154 | CDKN2a(p14) | 0 | - | - |
| 155 | CDKN2C | 0 | 0 | - |
| 156 | CDX2 | 0 | - | - |
| 157 | CEBPA | 0 | 0 | 0 |
| 158 | CEP1 | 0 | - | - |
| 159 | CEP128 | - | - | 0 |
| 160 | CERK | - | - | 0 |
| 161 | CHCHD7 | 0 | - | - |
| 162 | CHD2 | - | - | 0 |
| 163 | CHD3 | - | - | 0 |
| 164 | CHD4 | - | - | 0 |
| 165 | CHD8 | - | - | 0 |
| 166 | CHEK2 | 0 | - | - |
| 167 | CHIC2 | 0 | - | - |
| 168 | CHN1 | 0 | - | - |
| 169 | CIC | 0 | 0 | 0 |
| 170 | CIITA | 0 | - | - |
| 171 | CIZ1 | - | - | 0 |
| 172 | CLGN | - | - | 0 |
| 173 | CLTC | 0 | - | - |
| 174 | CLTCL1 | 0 | - | - |
| 175 | CMAS | - | - | 0 |
| 176 | CMKOR1 | 0 | - | - |
| 177 | CNOT3 | 0 | - | 0 |
| 178 | COL1A1 | 0 | - | - |
| 179 | COL4A2 | - | - | 0 |
| 180 | COL5A2 | - | - | 0 |
| 181 | COL8A2 | - | - | 0 |
| 182 | COL9A1 | - | - | 0 |
| 183 | COPEB | 0 | - | - |
| 184 | COQ9 | - | - | 0 |
| 185 | COX6C | 0 | - | - |
| 186 | CPB1 | - | - | 0 |
| 187 | CPEB2 | - | - | 0 |
| 188 | CREB1 | 0 | - | - |
| 189 | CREB3L1 | 0 | - | - |
| 190 | CREB3L2 | 0 | - | - |

| | | | | |
|-----|----------|---|---|---|
| 191 | CREBBP | 0 | 0 | 0 |
| 192 | CRIPAK | - | - | 0 |
| 193 | CRISPLD1 | - | - | 0 |
| 194 | CRLF2 | 0 | 0 | - |
| 195 | CRTC3 | 0 | - | - |
| 196 | CSDE1 | - | - | 0 |
| 197 | CSF1R | - | 0 | - |
| 198 | CSF3R | 0 | - | - |
| 199 | CSMD3 | - | - | 0 |
| 200 | CSNK1E | - | - | 0 |
| 201 | CSNK2A1 | - | - | 0 |
| 202 | CTCF | - | - | 0 |
| 203 | CTDNEP1 | - | - | 0 |
| 204 | CTNNB1 | 0 | 0 | 0 |
| 205 | CTNND1 | - | - | 0 |
| 206 | CUL1 | - | - | 0 |
| 207 | CUL3 | - | - | 0 |
| 208 | CYLD | 0 | 0 | 0 |
| 209 | D10S170 | 0 | - | - |
| 210 | DAAM1 | - | - | 0 |
| 211 | DACH1 | - | - | 0 |
| 212 | DAXX | 0 | 0 | - |
| 213 | DCLK1 | - | - | 0 |
| 214 | DDB2 | 0 | - | - |
| 215 | DDIT3 | 0 | - | - |
| 216 | DDX10 | 0 | - | - |
| 217 | DDX3X | - | - | 0 |
| 218 | DDX5 | 0 | - | - |
| 219 | DDX6 | 0 | - | - |
| 220 | DEK | 0 | - | - |
| 221 | DENND6A | - | - | 0 |
| 222 | DEPDC5 | - | - | 0 |
| 223 | DICER1 | 0 | - | 0 |
| 224 | DIP2C | - | - | 0 |
| 225 | DKK2 | - | - | 0 |
| 226 | DNER | - | - | 0 |
| 227 | DNM2 | 0 | - | - |
| 228 | DNMT1 | - | 0 | - |
| 229 | DNMT3A | 0 | 0 | 0 |
| 230 | DOPEY1 | - | - | 0 |
| 231 | DPY19L4 | - | - | 0 |
| 232 | DTX1 | - | - | 0 |
| 233 | DUSP16 | - | - | 0 |
| 234 | DUX4 | 0 | - | - |
| 235 | DYRK1A | - | - | 0 |
| 236 | EBF1 | 0 | - | - |
| 237 | EBPL | - | - | 0 |
| 238 | ECT2L | 0 | - | - |

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|-----|----------|---|---|---|
| 239 | EEF1B2 | - | - | 0 |
| 240 | EGFR | 0 | 0 | 0 |
| 241 | EIF1AX | - | - | 0 |
| 242 | EIF2AK3 | - | - | 0 |
| 243 | EIF4A2 | 0 | - | - |
| 244 | ELF3 | - | - | 0 |
| 245 | ELF4 | 0 | - | - |
| 246 | ELK4 | 0 | - | - |
| 247 | ELKS | 0 | - | - |
| 248 | ELL | 0 | - | - |
| 249 | ELN | 0 | - | - |
| 250 | EMG1 | - | - | 0 |
| 251 | EML4 | 0 | - | - |
| 252 | ENAH | - | - | 0 |
| 253 | EP300 | 0 | 0 | 0 |
| 254 | EPB41L4A | - | - | 0 |
| 255 | EPHA2 | - | - | 0 |
| 256 | EPHA6 | - | - | 0 |
| 257 | EPS15 | 0 | - | - |
| 258 | ERBB2 | 0 | 0 | 0 |
| 259 | ERBB3 | - | - | 0 |
| 260 | ERCC2 | 0 | - | - |
| 261 | ERCC3 | 0 | - | - |
| 262 | ERCC4 | 0 | - | - |
| 263 | ERCC5 | 0 | - | - |
| 264 | ERG | 0 | - | - |
| 265 | ERRFI1 | - | - | 0 |
| 266 | ETV1 | 0 | - | - |
| 267 | ETV4 | 0 | - | - |
| 268 | ETV5 | 0 | - | - |
| 269 | ETV6 | 0 | - | - |
| 270 | EVI1 | 0 | - | - |
| 271 | EWSR1 | 0 | - | - |
| 272 | EXO5 | - | - | 0 |
| 273 | EXT1 | 0 | - | - |
| 274 | EXT2 | 0 | - | - |
| 275 | EZH2 | 0 | 0 | 0 |
| 276 | EZR | 0 | - | - |
| 277 | FACL6 | 0 | - | - |
| 278 | FAM123B | - | 0 | - |
| 279 | FAM22A | 0 | - | - |
| 280 | FAM22B | 0 | - | - |
| 281 | FAM46C | 0 | - | - |
| 282 | FAM58A | - | - | 0 |
| 283 | FAM8A1 | - | - | 0 |
| 284 | FANCA | 0 | - | - |
| 285 | FANCC | 0 | - | - |
| 286 | FANCD2 | 0 | - | - |

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|-----|----------|---|---|---|
| 287 | FANCE | 0 | - | - |
| 288 | FANCF | 0 | - | - |
| 289 | FANCG | 0 | - | - |
| 290 | FANCM | - | - | 0 |
| 291 | FAS | - | - | 0 |
| 292 | FAT1 | - | - | 0 |
| 293 | FBXO11 | 0 | - | - |
| 294 | FBXW7 | 0 | 0 | 0 |
| 295 | FCGR2B | 0 | - | - |
| 296 | FEV | 0 | - | - |
| 297 | FGFR1 | 0 | - | - |
| 298 | FGFR1OP | 0 | - | - |
| 299 | FGFR2 | 0 | 0 | 0 |
| 300 | FGFR3 | 0 | 0 | 0 |
| 301 | FH | 0 | - | - |
| 302 | FHIT | 0 | - | - |
| 303 | FIP1L1 | 0 | - | - |
| 304 | FLI1 | 0 | - | - |
| 305 | FLJ27352 | 0 | - | - |
| 306 | FLT3 | 0 | 0 | 0 |
| 307 | FMNL3 | - | - | 0 |
| 308 | FNBP1 | 0 | - | - |
| 309 | FOSL2 | - | - | 0 |
| 310 | FOXA1 | - | - | 0 |
| 311 | FOXL2 | 0 | 0 | - |
| 312 | FOXO1A | 0 | - | - |
| 313 | FOXO3A | 0 | - | - |
| 314 | FOXP1 | 0 | - | - |
| 315 | FSTL3 | 0 | - | - |
| 316 | FUBP1 | 0 | 0 | 0 |
| 317 | FUS | 0 | - | - |
| 318 | FVT1 | 0 | - | - |
| 319 | GABRA1 | - | - | 0 |
| 320 | GABRA2 | - | - | 0 |
| 321 | GABRA5 | - | - | 0 |
| 322 | GABRG1 | - | - | 0 |
| 323 | GAPVD1 | - | - | 0 |
| 324 | GAS7 | 0 | - | - |
| 325 | GATA1 | 0 | 0 | - |
| 326 | GATA2 | 0 | 0 | - |
| 327 | GATA3 | 0 | 0 | 0 |
| 328 | GGCT | - | - | 0 |
| 329 | GGNBP2 | - | - | 0 |
| 330 | GIGYF2 | - | - | 0 |
| 331 | GJB3 | - | - | 0 |
| 332 | GK2 | - | - | 0 |
| 333 | GLTSCR1 | - | - | 0 |
| 334 | GMPS | 0 | - | - |

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|-----|-----------|---|---|---|
| 335 | GNA11 | 0 | 0 | - |
| 336 | GNA15 | - | - | 0 |
| 337 | GNAQ | 0 | 0 | - |
| 338 | GNAS | 0 | 0 | 0 |
| 339 | GNG4 | - | - | 0 |
| 340 | GNPTAB | - | - | 0 |
| 341 | GOLGA5 | 0 | - | - |
| 342 | GOPC | 0 | - | - |
| 343 | GOT2 | - | - | 0 |
| 344 | GPC3 | 0 | - | - |
| 345 | GPHN | 0 | - | - |
| 346 | GPR141 | - | - | 0 |
| 347 | GPR174 | - | - | 0 |
| 348 | GPS2 | - | - | 0 |
| 349 | GRAF | 0 | - | - |
| 350 | GRIA2 | - | - | 0 |
| 351 | GRIA3 | - | - | 0 |
| 352 | GRID1 | - | - | 0 |
| 353 | GRID2 | - | - | 0 |
| 354 | GRM5 | - | - | 0 |
| 355 | GRXCR1 | - | - | 0 |
| 356 | GSE1 | - | - | 0 |
| 357 | GTF2I | - | - | 0 |
| 358 | H3F3A | 0 | 0 | - |
| 359 | HARS2 | - | - | 0 |
| 360 | HAUS8 | - | - | 0 |
| 361 | HCMOGT-1 | 0 | - | - |
| 362 | HDAC2 | - | - | 0 |
| 363 | HEAB | 0 | - | - |
| 364 | HERC1 | - | - | 0 |
| 365 | HERPUD1 | 0 | - | - |
| 366 | HEY1 | 0 | - | - |
| 367 | HGF | - | - | 0 |
| 368 | HIP1 | 0 | - | - |
| 369 | HIST1H2BF | - | - | 0 |
| 370 | HIST1H3B | 0 | 0 | 0 |
| 371 | HIST1H4I | 0 | - | - |
| 372 | HLA-A | - | - | 0 |
| 373 | HLA-B | - | - | 0 |
| 374 | HLA-DRB1 | - | - | 0 |
| 375 | HLF | 0 | - | 0 |
| 376 | HLXB9 | 0 | - | - |
| 377 | HMCN1 | - | - | 0 |
| 378 | HMGA1 | 0 | - | - |
| 379 | HMGA2 | 0 | - | - |
| 380 | HNF1A | - | 0 | 0 |
| 381 | HNRNPA2B1 | 0 | - | - |
| 382 | HNRNPD | - | - | 0 |

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|-----|---------|---|---|---|
| 383 | HOOK3 | 0 | - | - |
| 384 | HOXA11 | 0 | - | - |
| 385 | HOXA13 | 0 | - | - |
| 386 | HOXA9 | 0 | - | - |
| 387 | HOXC11 | 0 | - | - |
| 388 | HOXC13 | 0 | - | - |
| 389 | HOXD11 | 0 | - | - |
| 390 | HOXD13 | 0 | - | - |
| 391 | HRAS | 0 | 0 | 0 |
| 392 | HRPT2 | 0 | - | - |
| 393 | HS6ST1 | - | - | 0 |
| 394 | HSPCA | 0 | - | - |
| 395 | HSPCB | 0 | - | - |
| 396 | ID3 | - | - | 0 |
| 397 | IDH1 | 0 | 0 | 0 |
| 398 | IDH2 | 0 | 0 | 0 |
| 399 | IFITM1 | - | - | 0 |
| 400 | IFNGR2 | - | - | 0 |
| 401 | IGH@ | 0 | - | - |
| 402 | IGK@ | 0 | - | - |
| 403 | IGL@ | 0 | - | - |
| 404 | IKZF1 | 0 | 0 | - |
| 405 | IL2 | 0 | - | - |
| 406 | IL21 | - | - | 0 |
| 407 | IL21R | 0 | - | - |
| 408 | IL32 | - | - | 0 |
| 409 | IL5RA | - | - | 0 |
| 410 | IL6ST | 0 | - | - |
| 411 | IL7R | 0 | - | - |
| 412 | INO80 | - | - | 0 |
| 413 | INPPL1 | - | - | 0 |
| 414 | INTS7 | - | - | 0 |
| 415 | IREB2 | - | - | 0 |
| 416 | IRF2 | - | - | 0 |
| 417 | IRF4 | 0 | - | - |
| 418 | IRTA1 | 0 | - | - |
| 419 | ITK | 0 | - | - |
| 420 | ITM2C | - | - | 0 |
| 421 | IWS1 | - | - | 0 |
| 422 | JAK1 | 0 | 0 | - |
| 423 | JAK2 | 0 | 0 | - |
| 424 | JAK3 | 0 | 0 | - |
| 425 | JAKMIP2 | - | - | 0 |
| 426 | JAZF1 | 0 | - | - |
| 427 | JMJD1C | - | - | 0 |
| 428 | JUN | 0 | - | 0 |
| 429 | KANSL1 | - | - | 0 |
| 430 | KAT8 | - | - | 0 |

| | | | | |
|-----|-----------|---|---|---|
| 431 | KBTBD7 | - | - | 0 |
| 432 | KCND3 | - | - | 0 |
| 433 | KCNJ5 | 0 | - | - |
| 434 | KCNMB2 | - | - | 0 |
| 435 | KCNQ5 | - | - | 0 |
| 436 | KCNT2 | - | - | 0 |
| 437 | KDM3B | - | - | 0 |
| 438 | KDM5A | 0 | - | - |
| 439 | KDM5C | 0 | 0 | 0 |
| 440 | KDM6A | 0 | 0 | 0 |
| 441 | KDR | 0 | - | - |
| 442 | KEAP1 | - | - | 0 |
| 443 | KIAA0907 | - | - | 0 |
| 444 | KIAA1549 | 0 | - | - |
| 445 | KIF5B | 0 | - | - |
| 446 | KIT | 0 | 0 | - |
| 447 | KLF4 | 0 | 0 | - |
| 448 | KLHL5 | - | - | 0 |
| 449 | KLK2 | 0 | - | - |
| 450 | KLK8 | - | - | 0 |
| 451 | KMT2A | - | - | 0 |
| 452 | KMT2B | - | - | 0 |
| 453 | KMT2C | - | - | 0 |
| 454 | KMT2D | - | - | 0 |
| 455 | KRAS | 0 | 0 | 0 |
| 456 | KRT15 | - | - | 0 |
| 457 | KRTAP4-11 | - | - | 0 |
| 458 | KRTAP4-5 | - | - | 0 |
| 459 | KTN1 | 0 | - | - |
| 460 | LAF4 | 0 | - | - |
| 461 | LARP4B | - | - | 0 |
| 462 | LASP1 | 0 | - | - |
| 463 | LCK | 0 | - | - |
| 464 | LCP1 | 0 | - | - |
| 465 | LCX | 0 | - | - |
| 466 | LDB1 | - | - | 0 |
| 467 | LEMD2 | - | - | 0 |
| 468 | LHFP | 0 | - | - |
| 469 | LHFPL1 | - | - | 0 |
| 470 | LIFR | 0 | - | - |
| 471 | LIMCH1 | - | - | 0 |
| 472 | LIN9 | - | - | 0 |
| 473 | LMO1 | 0 | 0 | - |
| 474 | LMO2 | 0 | - | - |
| 475 | LPA | - | - | 0 |
| 476 | LPHN3 | - | - | 0 |
| 477 | LPP | 0 | - | - |
| 478 | LRIG3 | 0 | - | - |

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|-----|---------------|---|---|---|
| 479 | LSM11 | - | - | 0 |
| 480 | LUC7L3 | - | - | 0 |
| 481 | LUM | - | - | 0 |
| 482 | LYL1 | 0 | - | - |
| 483 | LZTR1 | - | - | 0 |
| 484 | MADH4 | 0 | - | - |
| 485 | MAF | 0 | - | - |
| 486 | MAFB | 0 | - | - |
| 487 | MAGED1 | - | - | 0 |
| 488 | MAGI2 | - | - | 0 |
| 489 | MALT1 | 0 | - | - |
| 490 | MAML2 | 0 | - | - |
| 491 | MAP2K1 | 0 | 0 | 0 |
| 492 | MAP2K2 | 0 | - | - |
| 493 | MAP2K4 | 0 | 0 | 0 |
| 494 | MAP3K1 | - | 0 | 0 |
| 495 | MAP3K4 | - | - | 0 |
| 496 | MAPK1 | - | - | 0 |
| 497 | MAPK8 | - | - | 0 |
| 498 | MAPK8IP2 | - | - | 0 |
| 499 | MARCO | - | - | 0 |
| 500 | MAX | 0 | - | 0 |
| 501 | MB21D2 | - | - | 0 |
| 502 | MBD1 | - | - | 0 |
| 503 | MBD6 | - | - | 0 |
| 504 | MBOAT2 | - | - | 0 |
| 505 | MDGA2 | - | - | 0 |
| 506 | MDM2 | 0 | 0 | - |
| 507 | MDM4 | 0 | 0 | - |
| 508 | MDS1 | 0 | - | - |
| 509 | MDS2 | 0 | - | - |
| 510 | MECOM | - | - | 0 |
| 511 | MECT1 | 0 | - | - |
| 512 | MED12 | 0 | 0 | 0 |
| 513 | MED23 | - | - | 0 |
| 514 | MEF2B | - | - | 0 |
| 515 | MEF2BNB-MEF2B | - | - | 0 |
| 516 | MEN1 | 0 | 0 | 0 |
| 517 | MET | 0 | 0 | - |
| 518 | METTL14 | - | - | 0 |
| 519 | MFAP5 | - | - | 0 |
| 520 | MFF | - | - | 0 |
| 521 | MFGE8 | - | - | 0 |
| 522 | MGA | - | - | 0 |
| 523 | MICU3 | - | - | 0 |
| 524 | MITF | 0 | - | - |
| 525 | MKL1 | 0 | - | - |
| 526 | MKRN1 | - | - | 0 |

| | | | | |
|-----|--------|---|---|---|
| 527 | MLF1 | 0 | - | - |
| 528 | MLH1 | 0 | 0 | - |
| 529 | MLL | 0 | - | - |
| 530 | MLL2 | 0 | 0 | - |
| 531 | MLL3 | 0 | 0 | - |
| 532 | MLLT1 | 0 | - | - |
| 533 | MLLT10 | 0 | - | - |
| 534 | MLLT11 | - | - | 0 |
| 535 | MLLT2 | 0 | - | - |
| 536 | MLLT3 | 0 | - | - |
| 537 | MLLT4 | 0 | - | 0 |
| 538 | MLLT6 | 0 | - | - |
| 539 | MLLT7 | 0 | - | - |
| 540 | MN1 | 0 | - | - |
| 541 | MOAP1 | - | - | 0 |
| 542 | MORC4 | - | - | 0 |
| 543 | MPL | 0 | 0 | - |
| 544 | MRPL32 | - | - | 0 |
| 545 | MRPL49 | - | - | 0 |
| 546 | MS4A8 | - | - | 0 |
| 547 | MSF | 0 | - | - |
| 548 | MSH2 | 0 | 0 | - |
| 549 | MSH6 | 0 | 0 | - |
| 550 | MSI2 | 0 | - | - |
| 551 | MSN | 0 | - | - |
| 552 | MTCP1 | 0 | - | - |
| 553 | MTFR1L | - | - | 0 |
| 554 | MTOR | - | - | 0 |
| 555 | MUC1 | 0 | - | - |
| 556 | MUTYH | 0 | - | - |
| 557 | MYB | 0 | - | - |
| 558 | MYC | 0 | 0 | 0 |
| 559 | MYCL1 | 0 | 0 | - |
| 560 | MYCN | 0 | 0 | 0 |
| 561 | MYD88 | 0 | 0 | 0 |
| 562 | MYF5 | - | - | 0 |
| 563 | MYH11 | 0 | - | - |
| 564 | MYH2 | - | - | 0 |
| 565 | MYH9 | 0 | - | - |
| 566 | MYO1B | - | - | 0 |
| 567 | MYO3A | - | - | 0 |
| 568 | MYO6 | - | - | 0 |
| 569 | MYOT | - | - | 0 |
| 570 | MYST4 | 0 | - | - |
| 571 | NAA25 | - | - | 0 |
| 572 | NACA | 0 | - | - |
| 573 | NBPF1 | - | - | 0 |
| 574 | NBPF10 | - | - | 0 |

| | | | | |
|-----|----------|---|---|---|
| 575 | NBS1 | 0 | - | - |
| 576 | NCOA1 | 0 | - | - |
| 577 | NCOA2 | 0 | - | - |
| 578 | NCOA3 | - | 0 | - |
| 579 | NCOA4 | 0 | - | - |
| 580 | NCOR1 | - | 0 | 0 |
| 581 | NCOR2 | - | - | 0 |
| 582 | NDRG1 | 0 | - | - |
| 583 | NDUFS5 | - | - | 0 |
| 584 | NEK9 | - | - | 0 |
| 585 | NENF | - | - | 0 |
| 586 | NF1 | 0 | 0 | 0 |
| 587 | NF2 | 0 | 0 | 0 |
| 588 | NFATC4 | - | - | 0 |
| 589 | NFE2L2 | 0 | 0 | 0 |
| 590 | NFIB | 0 | - | - |
| 591 | NFKB2 | 0 | - | - |
| 592 | NIN | 0 | - | - |
| 593 | NIPBL | - | - | 0 |
| 594 | NKX2-1 | 0 | 0 | - |
| 595 | NNMT | - | - | 0 |
| 596 | NONO | 0 | - | - |
| 597 | NOTCH1 | 0 | 0 | 0 |
| 598 | NOTCH2 | 0 | 0 | 0 |
| 599 | NPM1 | 0 | 0 | 0 |
| 600 | NR4A3 | 0 | - | - |
| 601 | NRAP | - | - | 0 |
| 602 | NRAS | 0 | 0 | 0 |
| 603 | NRG3 | - | - | 0 |
| 604 | NSD1 | 0 | - | 0 |
| 605 | NSFL1C | - | - | 0 |
| 606 | NSMCE1 | - | - | 0 |
| 607 | NT5C2 | 0 | - | - |
| 608 | NTRK1 | 0 | - | - |
| 609 | NTRK3 | 0 | - | - |
| 610 | NUMA1 | 0 | - | - |
| 611 | NUP214 | 0 | - | - |
| 612 | NUP98 | 0 | - | 0 |
| 613 | NUTM2F | - | - | 0 |
| 614 | OLIG2 | 0 | - | - |
| 615 | OMD | 0 | - | - |
| 616 | OPRM1 | - | - | 0 |
| 617 | OR4M2 | - | - | 0 |
| 618 | OR511 | - | - | 0 |
| 619 | P2RY8 | 0 | - | - |
| 620 | PABPC3 | - | - | 0 |
| 621 | PAFAH1B2 | 0 | - | - |
| 622 | PALB2 | 0 | - | - |

| | | | | |
|-----|---------|---|---|---|
| 623 | PAX3 | 0 | - | - |
| 624 | PAX5 | 0 | 0 | - |
| 625 | PAX7 | 0 | - | - |
| 626 | PAX8 | 0 | - | - |
| 627 | PBRM1 | 0 | 0 | 0 |
| 628 | PBX1 | 0 | - | - |
| 629 | PCDH7 | - | - | 0 |
| 630 | PCM1 | 0 | - | - |
| 631 | PCMTD1 | - | - | 0 |
| 632 | PCSK7 | 0 | - | - |
| 633 | PDE4DIP | 0 | - | - |
| 634 | PDE7B | - | - | 0 |
| 635 | PDGFB | 0 | - | - |
| 636 | PDGFRA | 0 | 0 | - |
| 637 | PDGFRB | 0 | - | - |
| 638 | PDYN | - | - | 0 |
| 639 | PER1 | 0 | - | - |
| 640 | PEX2 | - | - | 0 |
| 641 | PGM5 | - | - | 0 |
| 642 | PHACTR4 | - | - | 0 |
| 643 | PHF6 | 0 | 0 | 0 |
| 644 | PHOX2B | 0 | - | - |
| 645 | PICALM | 0 | - | - |
| 646 | PIK3CA | 0 | 0 | 0 |
| 647 | PIK3CB | - | - | 0 |
| 648 | PIK3R1 | 0 | 0 | 0 |
| 649 | PIK3R5 | - | - | 0 |
| 650 | PIM1 | 0 | - | - |
| 651 | PLAC4 | - | - | 0 |
| 652 | PLAG1 | 0 | - | - |
| 653 | PLCL1 | - | - | 0 |
| 654 | PLEKHA6 | - | - | 0 |
| 655 | PLEKHM3 | - | - | 0 |
| 656 | PLK2 | - | - | 0 |
| 657 | PML | 0 | - | - |
| 658 | PMS1 | 0 | - | - |
| 659 | PMS2 | 0 | - | - |
| 660 | PMX1 | 0 | - | - |
| 661 | PNISR | - | - | 0 |
| 662 | PNUTL1 | 0 | - | - |
| 663 | POLE | - | - | 0 |
| 664 | POT1 | 0 | - | - |
| 665 | POTEG | - | - | 0 |
| 666 | POU2AF1 | 0 | - | - |
| 667 | POU5F1 | 0 | - | - |
| 668 | PPARG | 0 | - | - |
| 669 | PPM1D | - | - | 0 |
| 670 | PPP1R9A | - | - | 0 |

| | | | | |
|-----|----------|---|---|---|
| 671 | PPP2R1A | 0 | 0 | 0 |
| 672 | PPP3CC | - | - | 0 |
| 673 | PPP6C | - | - | 0 |
| 674 | PRCC | 0 | - | - |
| 675 | PRDM1 | 0 | 0 | - |
| 676 | PRDM16 | 0 | - | - |
| 677 | PRF1 | 0 | - | - |
| 678 | PRKAR1A | 0 | - | - |
| 679 | PRKCI | - | - | 0 |
| 680 | PRKRA | - | - | 0 |
| 681 | PRO1073 | 0 | - | - |
| 682 | PRPF40A | - | - | 0 |
| 683 | PRPF8 | - | - | 0 |
| 684 | PRRC2C | - | - | 0 |
| 685 | PRRX1 | - | - | 0 |
| 686 | PSIP1 | - | - | 0 |
| 687 | PSIP2 | 0 | - | - |
| 688 | PSMC3IP | - | - | 0 |
| 689 | PSPH | - | - | 0 |
| 690 | PTCH | 0 | - | - |
| 691 | PTCH1 | - | 0 | 0 |
| 692 | PTEN | 0 | 0 | 0 |
| 693 | PTN | - | - | 0 |
| 694 | PTPN11 | 0 | 0 | 0 |
| 695 | PTPRC | 0 | - | - |
| 696 | PTPRF | - | - | 0 |
| 697 | PTPRK | - | - | 0 |
| 698 | PTPRU | - | - | 0 |
| 699 | PUS7 | - | - | 0 |
| 700 | RAB5EP | 0 | - | - |
| 701 | RAC1 | 0 | - | 0 |
| 702 | RAD21 | 0 | - | 0 |
| 703 | RAD51L1 | 0 | - | - |
| 704 | RAF1 | 0 | - | - |
| 705 | RALGDS | 0 | - | - |
| 706 | RANBP17 | 0 | - | - |
| 707 | RAP1GDS1 | 0 | - | - |
| 708 | RAPGEF6 | - | - | 0 |
| 709 | RARA | 0 | - | - |
| 710 | RASA1 | - | - | 0 |
| 711 | RB1 | 0 | 0 | 0 |
| 712 | RBBP6 | - | - | 0 |
| 713 | RBM10 | - | - | 0 |
| 714 | RBM15 | 0 | - | 0 |
| 715 | RBM26 | - | - | 0 |
| 716 | RBM39 | - | - | 0 |
| 717 | RBMX | - | - | 0 |
| 718 | RECQL4 | 0 | - | - |

| | | | | |
|-----|---------|---|---|---|
| 719 | REL | 0 | - | - |
| 720 | RERE | - | - | 0 |
| 721 | RET | 0 | 0 | - |
| 722 | REXO2 | - | - | 0 |
| 723 | RGPD3 | - | - | 0 |
| 724 | RGS12 | - | - | 0 |
| 725 | RHBDL3 | - | - | 0 |
| 726 | RHOA | - | - | 0 |
| 727 | RIMS2 | - | - | 0 |
| 728 | RIT1 | - | - | 0 |
| 729 | RNF111 | - | - | 0 |
| 730 | RNF43 | 0 | 0 | 0 |
| 731 | ROS1 | 0 | - | - |
| 732 | RPL10 | 0 | - | - |
| 733 | RPL18 | - | - | 0 |
| 734 | RPL22 | 0 | - | 0 |
| 735 | RPL5 | 0 | - | 0 |
| 736 | RPN1 | 0 | - | - |
| 737 | RRAS2 | - | - | 0 |
| 738 | RUFY2 | - | - | 0 |
| 739 | RUNDC2A | 0 | - | - |
| 740 | RUNX1 | 0 | 0 | 0 |
| 741 | RUNXBP2 | 0 | - | - |
| 742 | RXRB | - | - | 0 |
| 743 | SAP30 | - | - | 0 |
| 744 | SBDS | 0 | - | - |
| 745 | SBNO1 | - | - | 0 |
| 746 | SCN3A | - | - | 0 |
| 747 | SCRN3 | - | - | 0 |
| 748 | SDC4 | 0 | - | - |
| 749 | SDH5 | 0 | - | - |
| 750 | SDHB | 0 | - | - |
| 751 | SDHC | 0 | - | - |
| 752 | SDHD | 0 | - | - |
| 753 | SEC22A | - | - | 0 |
| 754 | SEC63 | - | - | 0 |
| 755 | SEMG2 | - | - | 0 |
| 756 | SEPT14 | - | - | 0 |
| 757 | SEPT6 | 0 | - | - |
| 758 | SESTD1 | - | - | 0 |
| 759 | SET | 0 | - | - |
| 760 | SETBP1 | 0 | 0 | - |
| 761 | SETD2 | 0 | 0 | 0 |
| 762 | SF3B1 | 0 | 0 | 0 |
| 763 | SFPQ | 0 | - | 0 |
| 764 | SFRS3 | 0 | - | - |
| 765 | SH2B3 | 0 | - | - |
| 766 | SH3GL1 | 0 | - | - |

| | | | | |
|-----|---------|---|---|---|
| 767 | SHB | - | - | 0 |
| 768 | SIAH2 | - | - | 0 |
| 769 | SIK3 | - | - | 0 |
| 770 | SIL | 0 | - | - |
| 771 | SIN3A | - | - | 0 |
| 772 | SKAP2 | - | - | 0 |
| 773 | SKP2 | - | 0 | - |
| 774 | SLC23A2 | - | - | 0 |
| 775 | SLC34A2 | 0 | - | - |
| 776 | SLC35G3 | - | - | 0 |
| 777 | SLC45A3 | 0 | - | - |
| 778 | SMAD2 | - | 0 | 0 |
| 779 | SMAD4 | - | 0 | 0 |
| 780 | SMARCA1 | - | - | 0 |
| 781 | SMARCA2 | - | - | 0 |
| 782 | SMARCA4 | 0 | 0 | 0 |
| 783 | SMARCB1 | 0 | 0 | 0 |
| 784 | SMARCE1 | 0 | - | - |
| 785 | SMC4 | - | - | 0 |
| 786 | SMO | 0 | 0 | 0 |
| 787 | SMOC2 | - | - | 0 |
| 788 | SNRPN | - | - | 0 |
| 789 | SOCS1 | 0 | 0 | - |
| 790 | SOCS5 | - | - | 0 |
| 791 | SOS1 | - | - | 0 |
| 792 | SOX17 | - | - | 0 |
| 793 | SOX2 | 0 | - | - |
| 794 | SOX21 | - | - | 0 |
| 795 | SOX9 | - | 0 | 0 |
| 796 | SPATA6 | - | - | 0 |
| 797 | SPCS1 | - | - | 0 |
| 798 | SPEN | - | - | 0 |
| 799 | SPOP | - | 0 | 0 |
| 800 | SPPL3 | - | - | 0 |
| 801 | SPRED1 | - | - | 0 |
| 802 | SPRED2 | - | - | 0 |
| 803 | SPSB2 | - | - | 0 |
| 804 | SRC | - | - | 0 |
| 805 | SRGAP3 | 0 | - | - |
| 806 | SRSF11 | - | - | 0 |
| 807 | SRSF2 | 0 | 0 | - |
| 808 | SS18 | 0 | - | - |
| 809 | SS18L1 | 0 | - | - |
| 810 | SSX1 | 0 | - | - |
| 811 | SSX2 | 0 | - | - |
| 812 | SSX4 | 0 | - | - |
| 813 | STAG2 | - | 0 | 0 |
| 814 | STAT3 | 0 | - | 0 |

| | | | | |
|-----|----------|---|---|---|
| 815 | STAT5B | 0 | - | - |
| 816 | STK11 | 0 | 0 | 0 |
| 817 | STL | 0 | - | - |
| 818 | STRIP2 | - | - | 0 |
| 819 | STX7 | - | - | 0 |
| 820 | STXBP1 | - | - | 0 |
| 821 | STXBP6 | - | - | 0 |
| 822 | SUFU | 0 | - | - |
| 823 | SULT1C4 | - | - | 0 |
| 824 | SUZ12 | 0 | - | 0 |
| 825 | SYK | 0 | - | - |
| 826 | TAF1 | - | - | 0 |
| 827 | TAF15 | 0 | - | - |
| 828 | TAL1 | 0 | - | - |
| 829 | TAL2 | 0 | - | - |
| 830 | TAOK1 | - | - | 0 |
| 831 | TBC1D10C | - | - | 0 |
| 832 | TBL1XR1 | - | - | 0 |
| 833 | TBL1XR1 | 0 | - | - |
| 834 | TBX15 | - | - | 0 |
| 835 | TBX18 | - | - | 0 |
| 836 | TBX3 | - | - | 0 |
| 837 | TCEA1 | 0 | - | - |
| 838 | TCEB3 | - | - | 0 |
| 839 | TCF1 | 0 | - | - |
| 840 | TCF12 | 0 | - | 0 |
| 841 | TCF3 | 0 | - | - |
| 842 | TCF7L2 | 0 | - | 0 |
| 843 | TCL1A | 0 | - | - |
| 844 | TCL6 | 0 | - | - |
| 845 | TERT | 0 | - | - |
| 846 | TES | - | - | 0 |
| 847 | TET2 | 0 | 0 | 0 |
| 848 | TEX11 | - | - | 0 |
| 849 | TFE3 | 0 | - | - |
| 850 | TFEB | 0 | - | - |
| 851 | TFG | 0 | - | - |
| 852 | TFPT | 0 | - | - |
| 853 | TFRC | 0 | - | - |
| 854 | TGFBR2 | - | - | 0 |
| 855 | THRAP3 | 0 | - | 0 |
| 856 | THUMPD3 | - | - | 0 |
| 857 | TIF1 | 0 | - | - |
| 858 | TKTL2 | - | - | 0 |
| 859 | TLL1 | - | - | 0 |
| 860 | TLL2 | - | - | 0 |
| 861 | TLX1 | 0 | - | - |
| 862 | TLX3 | 0 | - | - |

| | | | | |
|-----|----------|---|---|---|
| 863 | TM2D3 | - | - | 0 |
| 864 | TMCO2 | - | - | 0 |
| 865 | TMEM11 | - | - | 0 |
| 866 | TMEM30A | - | - | 0 |
| 867 | TMPO | - | - | 0 |
| 868 | TMPRSS2 | 0 | - | - |
| 869 | TNFAIP3 | 0 | 0 | - |
| 870 | TNFRSF14 | 0 | - | - |
| 871 | TNFRSF17 | 0 | - | - |
| 872 | TNFRSF6 | 0 | - | - |
| 873 | TNIK | - | - | 0 |
| 874 | TNRC6B | - | - | 0 |
| 875 | TOP1 | 0 | - | - |
| 876 | TOR1A | - | - | 0 |
| 877 | TOX | - | - | 0 |
| 878 | TP53 | 0 | 0 | 0 |
| 879 | TP53BP1 | - | - | 0 |
| 880 | TPM3 | 0 | - | - |
| 881 | TPM4 | 0 | - | - |
| 882 | TPR | 0 | - | - |
| 883 | TRA@ | 0 | - | - |
| 884 | TRAF3 | - | - | 0 |
| 885 | TRAF7 | 0 | 0 | - |
| 886 | TRB@ | 0 | - | - |
| 887 | TRD@ | 0 | - | - |
| 888 | TRIM23 | - | - | 0 |
| 889 | TRIM27 | 0 | - | - |
| 890 | TRIM33 | 0 | - | - |
| 891 | TRIM48 | - | - | 0 |
| 892 | TRIP11 | 0 | - | - |
| 893 | TRIP12 | - | - | 0 |
| 894 | TRPC6 | - | - | 0 |
| 895 | TSC1 | 0 | 0 | - |
| 896 | TSC2 | 0 | - | - |
| 897 | TSHR | 0 | 0 | - |
| 898 | TTC18 | - | - | 0 |
| 899 | TTL | 0 | - | - |
| 900 | TUSC3 | - | - | 0 |
| 901 | TXNRD1 | - | - | 0 |
| 902 | TYRP1 | - | - | 0 |
| 903 | U2AF1 | 0 | 0 | 0 |
| 904 | UBE2QL1 | - | - | 0 |
| 905 | UBQLN2 | - | - | 0 |
| 906 | UBR5 | - | - | 0 |
| 907 | UBR5 | 0 | - | - |
| 908 | UGT2A2 | - | - | 0 |
| 909 | UGT8 | - | - | 0 |
| 910 | UPF3B | - | - | 0 |

| | | | | |
|-----|---------|---|---|---|
| 911 | USP28 | - | - | 0 |
| 912 | USP6 | 0 | - | - |
| 913 | USP9X | - | - | 0 |
| 914 | VHL | 0 | 0 | 0 |
| 915 | VPS13A | - | - | 0 |
| 916 | VTI1A | 0 | - | - |
| 917 | WAC | - | - | 0 |
| 918 | WAS | 0 | - | - |
| 919 | WBP1 | - | - | 0 |
| 920 | WBSCR17 | - | - | 0 |
| 921 | WDR17 | - | - | 0 |
| 922 | WDR33 | - | - | 0 |
| 923 | WDR47 | - | - | 0 |
| 924 | WHSC1 | 0 | - | - |
| 925 | WHSC1L1 | 0 | - | - |
| 926 | WIF1 | 0 | - | - |
| 927 | WNT11 | - | - | 0 |
| 928 | WRN | 0 | - | - |
| 929 | WT1 | 0 | 0 | 0 |
| 930 | WTX | 0 | - | - |
| 931 | WWC2 | - | - | 0 |
| 932 | WWTR1 | 0 | - | - |
| 933 | XPA | 0 | - | - |
| 934 | XPC | 0 | - | - |
| 935 | XPO1 | 0 | - | - |
| 936 | XPOT | - | - | 0 |
| 937 | XYLT1 | - | - | 0 |
| 938 | YLPM1 | - | - | 0 |
| 939 | YWHAE | 0 | - | - |
| 940 | ZBTB18 | - | - | 0 |
| 941 | ZBTB7A | - | - | 0 |
| 942 | ZC3H13 | - | - | 0 |
| 943 | ZC3H18 | - | - | 0 |
| 944 | ZFP2 | - | - | 0 |
| 945 | ZFP36L1 | - | - | 0 |
| 946 | ZFP36L2 | - | - | 0 |
| 947 | ZFR | - | - | 0 |
| 948 | ZMYM3 | - | - | 0 |
| 949 | ZMYM4 | - | - | 0 |
| 950 | ZNF117 | - | - | 0 |
| 951 | ZNF145 | 0 | - | - |
| 952 | ZNF181 | - | - | 0 |
| 953 | ZNF198 | 0 | - | - |
| 954 | ZNF234 | - | - | 0 |
| 955 | ZNF263 | - | - | 0 |
| 956 | ZNF278 | 0 | - | - |
| 957 | ZNF292 | - | - | 0 |
| 958 | ZNF318 | - | - | 0 |

| | | | | |
|-----|--------|---|---|---|
| 959 | ZNF319 | - | - | 0 |
| 960 | ZNF331 | 0 | - | - |
| 961 | ZNF384 | 0 | - | - |
| 962 | ZNF479 | - | - | 0 |
| 963 | ZNF521 | 0 | - | - |
| 964 | ZNF559 | - | - | 0 |
| 965 | ZNF750 | - | - | 0 |
| 966 | ZNF799 | - | - | 0 |
| 967 | ZNF844 | - | - | 0 |
| 968 | ZNF878 | - | - | 0 |
| 969 | ZNF9 | 0 | - | - |
| 970 | ZNRF3 | - | - | 0 |
| 971 | ZRSR2 | 0 | - | - |