**Supplemental Table 4. List of candidate off-target peptides shared by $TCR_{a3a}$, $TCR_{A3\text{-}05}$ and $TCR_{A3\text{-}10}$, as predicted from peptide scanning of the $MAGE\text{-}A3_{168\text{-}176}$ target using TnT-TCR cells as effectors, Related to Figure 6.**

| Pep No. | Protein | Start position | End position | Sequence | Pep No. | Protein | Start position | End position | Sequence | Pep No. | Protein | Start position | End position | Sequence | Pep No. | Protein | Start position | End position | Sequence | Pep No. | Protein | Start position | End position | Sequence | Pep No. | Protein | Start position | End position | Sequence |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5HT2A | 243 | 251 | FFIPLTIMV | 61 | CHSTE | 362 | 370 | FAYPLPNVT | 121 | FNDC8 | 287 | 295 | ENYPIQITV | 181 | MAGI1 | 540 | 548 | QSIPIGASV | 241 | PK1L2 | 367 | 375 | FGDPLWIQV | 301 | TFEC | 282 | 290 | FSDPLSYFT |
| 2 | A16L2 | 497 | 505 | QVIPVQGRV | 62 | CLD15 | 146 | 154 | FFDPLYPGT | 122 | FR1L6 | 977 | 985 | QIYPVPANI | 182 | MARE1 | 234 | 242 | ENDPVLQRI | 242 | PLD5 | 387 | 395 | ETDPLTFNF | 302 | THIL | 234 | 242 | EVIPVTVTV |
| 3 | A1CF | 71 | 79 | ELIPLCEKI | 63 | CND2 | 240 | 248 | EIDPMFQKT | 123 | FSD1L | 201 | 209 | EIDPVECLV | 183 | MED6 | 91 | 99 | QVIPLADYY | 243 | PP1R8 | 107 | 115 | QQIPIDSTV | 303 | TIF1A | 924 | 932 | FQDPVPLTV |
| 4 | AAK1 | 917 | 925 | EFDPIPVLI | 64 | CNOT1 | 710 | 718 | QIDPLAGMT | 124 | GATA1 | 76 | 84 | QVYPLLNCM | 184 | MEFV | 319 | 327 | EGDPVDGTC | 244 | PPM1H | 298 | 306 | EIIPMSSEF | 304 | TIGIT | 138 | 146 | FQIPLLGAM |
| 5 | ABCAC | 531 | 539 | QLIPIIEAM | 65 | CNOT4 | 377 | 385 | ETIPVSSST | 125 | GBG5 | 44 | 52 | QHDPLLTGV | 185 | MGST2 | 58 | 66 | EFYPIFIIT | 245 | PR14L | 705 | 713 | QTIPIQTKI | 305 | TITIN | 24337 | 24345 | ESDPIVAQY |
| 6 | ABCAC | 858 | 866 | QAIPMLQNT | 66 | CNOT9 | 162 | 170 | EIIPLCLRI | 126 | GFPT2 | 217 | 225 | EQIPILYRT | 186 | MNDA | 208 | 216 | QNDPVTVVV | 246 | PRC2B | 1957 | 1965 | QQIPISLHT | 306 | TKFC | 128 | 136 | EGIPVEMVV |
| 7 | ABCG4 | 357 | 365 | EVDPIESHT | 67 | CNTN3 | 524 | 532 | QHDPLLDII | 127 | GLT16 | 270 | 278 | EQIPLEQKM | 187 | MOCS1 | 549 | 557 | QLIPLCHHV | 247 | PRD16 | 862 | 870 | FMDPIYSRV | 307 | TM1L1 | 446 | 454 | EFDPLAPAV |
| 8 | ABEC4 | 259 | 267 | ESYPLNNAF | 68 | CO6A6 | 1892 | 1900 | EIIPVVITF | 128 | GPR18 | 196 | 204 | FLIPLFIMI | 188 | MOD5 | 85 | 93 | FVDPLVTNY | 248 | PRDM6 | 184 | 192 | EIIPLNQHT | 308 | TMM62 | 539 | 547 | FNIPLMAYM |
| 9 | ACACA | 2174 | 2182 | FLIPIYHQV | 69 | COG4 | 351 | 359 | ELDPILTEV | 129 | GRHL3 | 257 | 265 | QFYPVTLRT | 189 | MORC1 | 570 | 578 | QFIPVDEIT | 249 | PRDX1 | 42 | 50 | FFYPLDFTF | 309 | TPC11 | 993 | 1001 | ENIPIITTV |
| 10 | ACADM | 59 | 67 | EIIPVAAEY | 70 | COQ5 | 265 | 273 | QVIPVLGEV | 130 | GRIA1 | 531 | 539 | FLDPLAYEI | 190 | MROH8 | 70 | 78 | QQDPLSEAI | 250 | PRS10 | 114 | 122 | EVDPLVYNM | 310 | TR49B | 22 | 30 | FIDPVTIDC |
| 11 | ACL7A | 231 | 239 | EGYPLPSIT | 71 | CP2A6 | 390 | 398 | EVYPMLGSV | 131 | GST2 | 110 | 118 | FGIPLWVQV | 191 | MTFR2 | 56 | 64 | ELIPLLNSV | 251 | PTPRB | 1131 | 1139 | QVDPLVQSF | 311 | TR64C | 22 | 30 | FIDPVTTDC |
| 12 | AEBP1 | 916 | 924 | QGIPIANAT | 72 | CP3A5 | 215 | 223 | FLDPLFLSI | 132 | GTDC1 | 51 | 59 | QTIPISEHY | 192 | MXRA5 | 1804 | 1812 | QNIPMVSST | 252 | PUR6 | 92 | 100 | EMIPIEWVC | 312 | TRI11 | 23 | 31 | FTDPVMTDC |
| 13 | AFAD | 1217 | 1225 | EAYPIPTQT | 73 | CPED1 | 371 | 379 | FMYPVVLQV | 133 | HACD3 | 299 | 307 | QSIPIFNET | 193 | MXRA5 | 2544 | 2552 | FHDPISEKI | 253 | RAS4B | 289 | 297 | QLIPLIEET | 313 | TRI17 | 23 | 31 | FTDPVMTTC |
| 14 | AGRE4 | 300 | 308 | FMYPVGYGI | 74 | CPLN1 | 363 | 371 | EFIPLHPLI | 134 | HDAC4 | 996 | 1004 | ELDPLPEKV | 194 | MY15B | 737 | 745 | EAIPLAPGI | 254 | RBBP6 | 365 | 373 | QQDPLMIPV | 314 | TRI41 | 27 | 35 | FTDPVSIGC |
| 15 | AGRG6 | 716 | 724 | QVDPLASVI | 75 | CPLN1 | 2416 | 2424 | QLIPLENLI | 135 | HD | 2801 | 2809 | QLIPVISDY | 195 | MYBB | 388 | 396 | ELIPISPST | 255 | RBM25 | 753 | 761 | FAYPLDWSI | 315 | TRI51 | 22 | 30 | FLDPVTIDC |
| 16 | AGRL1 | 42 | 50 | EGYPIELRC | 76 | CRBG3 | 1635 | 1643 | EVIPMMPEV | 136 | HELQ | 1009 | 1017 | ELIPLMEVT | 196 | MYO1H | 174 | 182 | QGIPVGGHI | 256 | RBP1 | 190 | 198 | FGIPLADAV | 316 | TRI58 | 267 | 275 | ENIPMELKT |
| 17 | AGRL3 | 37 | 45 | ESYPIELRC | 77 | CRBG3 | 1706 | 1714 | EVIPVTLAM | 137 | HELZ2 | 612 | 620 | QTDPVTLQY | 197 | MYOZ2 | 242 | 250 | ENIPIVITT | 257 | RELCH | 541 | 549 | ELIPLILCT | 317 | TRIM4 | 19 | 27 | FQDPVSIEC |
| 18 | ALPK3 | 1702 | 1710 | EIIPLYLIY | 78 | CRBN | 79 | 87 | QVIPVLPQV | 138 | HERC1 | 4283 | 4291 | QQIPVLAGV | 198 | NCHL1 | 145 | 153 | EGDPIVLPC | 258 | RELN | 1226 | 1234 | QIIPVINPT | 318 | TRIO | 2687 | 2695 | FVIPLSEVT |
| 19 | AMPE | 711 | 719 | ELYPMIEEY | 79 | CSDE1 | 279 | 287 | QNDPLPGRI | 139 | HERC1 | 4647 | 4655 | EMIPLDSFV | 199 | NELFD | 571 | 579 | EHDPVTEFI | 259 | REV3L | 2317 | 2325 | EFDPICALF | 319 | TSH1 | 466 | 474 | QSIPLPPTT |
| 20 | AN13A | 377 | 385 | QVIPIIDLM | 80 | CSKP | 767 | 775 | FAYPIPHTT | 140 | HEXD | 82 | 90 | EVIPLVQTF | 200 | NEMF | 388 | 396 | QGDPVASAI | 260 | RFIP3 | 118 | 126 | ELDPLFSWT | 320 | TSHB | 95 | 103 | FSYPVALSC |
| 21 | ANO8 | 980 | 988 | QIIPLQGKF | 81 | CSPG2 | 1360 | 1368 | ETDPVHDLM | 141 | HMCN1 | 994 | 1002 | EGIPVTLPC | 201 | NEMF | 995 | 1003 | FAIPICAPY | 261 | RGPA2 | 1369 | 1377 | ELIPLTARM | 321 | TT21A | 441 | 449 | QGIPLGSEY |
| 22 | ANR16 | 147 | 155 | EGDPLILQY | 82 | CTR4 | 540 | 548 | FQIPMVPLI | 142 | HNRC1 | 250 | 258 | EGDPLDDDV | 202 | NEP1 | 178 | 186 | FSIPVVSDV | 262 | RHAG | 49 | 57 | ELYPLFQDV | 322 | TT30A | 438 | 446 | ENYPMVEKV |
| 23 | ARMD2 | 143 | 151 | QFIPILISF | 83 | CWC22 | 121 | 129 | ELDPLLTRT | 143 | HRH3 | 86 | 94 | FCIPLYVPY | 203 | NFE2 | 174 | 182 | EMYPVEYPY | 263 | RIPR1 | 720 | 728 | QADPMAPRT | 323 | TT30B | 438 | 446 | ENYPMVEKI |
| 24 | ARRD1 | 328 | 336 | FLDPVFLST | 84 | DDX1 | 56 | 64 | FSIPVIQIV | 144 | HSF2 | 259 | 267 | ENIPVIPET | 204 | NFIP2 | 169 | 177 | EFYPVPPPY | 264 | RM11 | 62 | 70 | EGIPLPTKI | 324 | TTC14 | 535 | 543 | ECYPVPANT |
| 25 | ARRD2 | 199 | 207 | EVIPVFAEI | 85 | DDX23 | 445 | 453 | FLIPLLVWI | 145 | HSP7E | 365 | 373 | EVIPIGAAI | 205 | NLGNX | 497 | 505 | FGIPMIGPT | 265 | RM40 | 81 | 89 | ELIPIEDFI | 325 | TTLL2 | 176 | 184 | QFIPLTFVM |
| 26 | ARRD4 | 210 | 218 | EAIPIYAEI | 86 | DDX24 | 247 | 255 | FAIPMIHAV | 146 | IDD | 43 | 51 | QCIPLPWQC | 206 | NMES1 | 12 | 20 | ELIPLVVFM | 266 | RNF37 | 263 | 271 | FLDPITLEI | 326 | TWF2 | 246 | 254 | EGDPLESVV |
| 27 | ARSG | 18 | 26 | FLYPLVDFC | 87 | DDX46 | 224 | 232 | ELDPLDAYM | 147 | IFNA2 | 74 | 82 | ETIPVLHEM | 207 | NOX3 | 397 | 405 | FHYPVCVCV | 267 | RP1 | 1070 | 1078 | QVDPIEEET | 327 | TX13C | 154 | 162 | QVYPMPQDF |
| 28 | ASH1L | 2748 | 2756 | EIIPLEAVV | 88 | DEN6B | 427 | 435 | FIIPLEHYM | 148 | IGSF2 | 35 | 43 | EGYPVSIGC | 208 | NPBW1 | 212 | 220 | FAIPVSTIC | 268 | RPAB2 | 86 | 94 | ETDPLLIAM | 328 | UBE2W | 76 | 84 | ENIPVHPHV |
| 29 | AT11B | 351 | 359 | FIIPISLYV | 89 | DHX9 | 1123 | 1131 | QLDPVNERM | 149 | IGSF3 | 159 | 167 | EQDPLELTC | 209 | NTRK2 | 609 | 617 | EGDPLIMVF | 269 | RRBP1 | 1284 | 1292 | EQDPVQLKT | 329 | UBP38 | 242 | 250 | QHIPLQMIT |
| 30 | AT11C | 356 | 364 | FIIPVSMYV | 90 | DIP2A | 1561 | 1569 | QLDPIYVAY | 150 | IL7RA | 237 | 245 | EMDPILLTI | 210 | NUBPL | 197 | 205 | QNIPITGAV | 270 | RSH6A | 527 | 535 | EGIPVLELV | 330 | UBP8 | 658 | 666 | FLDPITGTF |
| 31 | AT134 | 544 | 552 | QGDPLDLKM | 91 | DIP2B | 426 | 434 | EVIPVPIEV | 151 | IQCN | 341 | 349 | QTYPVVSVT | 211 | NUMB | 509 | 517 | QSYPVANGM | 271 | RUSD2 | 494 | 502 | ETDPLCAEC | 331 | URAS1 | 24 | 32 | FLIPVALRV |
| 32 | ATP7A | 660 | 668 | FCIPVMGLM | 92 | DLG1 | 822 | 830 | QLYPISIFI | 152 | IRF6 | 393 | 401 | QVIPVVARM | 212 | O51A7 | 27 | 35 | FSIPICLMY | 272 | S12A3 | 487 | 495 | QLYPLIGFF | 332 | UTP20 | 2326 | 2334 | FFIPLCLMT |
| 33 | ATP7B | 660 | 668 | FGIPVMALM | 93 | DLG2 | 788 | 796 | QLYPIAIFI | 153 | ITA8 | 1008 | 1016 | FSIPLWVII | 213 | ODAM | 107 | 115 | QVDPLQLQT | 273 | S15A1 | 10 | 18 | FGYPLSIFF | 333 | VAFNB | 87 | 95 | EMYPVPPIT |
| 34 | B3A3 | 930 | 938 | FGIPISILV | 94 | DLGP1 | 61 | 69 | FSDPLASST | 154 | ITB7 | 148 | 156 | EGYPVDLYY | 214 | OMA1 | 510 | 518 | EQIPLTYIV | 274 | S6A20 | 117 | 125 | FQDPLPWSV | 334 | VATA | 417 | 425 | FSDPVTSAT |
| 35 | B3GN7 | 321 | 329 | ELYPIDDVF | 95 | DNAI3 | 38 | 46 | EIYPLVLTT | 155 | JAK2 | 34 | 42 | QIDPVLQVY | 215 | OPLA | 732 | 740 | QLDPIQLSI | 275 | SCAF4 | 349 | 357 | QQDPMHHQV | 335 | VLDLR | 126 | 134 | QCIPVSWRC |
| 36 | B3GN8 | 64 | 72 | QTIPLPFAY | 96 | DND1 | 73 | 81 | QLIPLFQRV | 156 | JIP4 | 919 | 927 | FTDPLGVQI | 216 | OPRK | 235 | 243 | FVIPVLIII | 276 | SCAM1 | 256 | 264 | QNIPVGIMM | 336 | VW5B1 | 49 | 57 | FVYPLDECT |
| 37 | BCL7C | 179 | 187 | EAYPVFEPV | 97 | DSCAM | 714 | 722 | EGYPVPTIV | 157 | K1210 | 525 | 533 | QGYPMSAAY | 217 | OPSD | 212 | 220 | FTIPMIIIF | 277 | SCAP | 284 | 292 | ELIPLVTTY | 337 | WASH1 | 188 | 196 | FLDPLAGAV |
| 38 | BDH | 225 | 233 | EMYPLGVKV | 98 | DUS18 | 82 | 90 | FFDPIADHI | 158 | K154L | 1245 | 1253 | EVIPVTQET | 218 | OR1Q1 | 23 | 31 | EQIPLFLVF | 278 | SCN1A | 788 | 796 | EHYPMTDHF | 338 | WDFY4 | 313 | 321 | EGYPLLLKV |
| 39 | BEND4 | 348 | 356 | ESIPVPCQT | 99 | DUS21 | 84 | 92 | FFDPIADLI | 159 | KALRN | 2853 | 2861 | QGIPVSLGT | 219 | OR2J1 | 252 | 260 | FFIPVMCMY | 279 | SCN2A | 779 | 787 | EHYPMTEQF | 339 | WDR27 | 491 | 499 | EAYPVECAV |
| 40 | BRWD3 | 1007 | 1015 | FLDPISGKM | 100 | DYH11 | 3798 | 3806 | EIDPLELDF | 160 | KCNKI | 139 | 147 | FGIPLMFLV | 220 | OR5K4 | 202 | 210 | FSIPIQIFT | 280 | SCN4A | 598 | 606 | EHYPMTEHF | 340 | WFS1 | 343 | 351 | FFIPLVIFY |
| 41 | BUD13 | 541 | 549 | EGDPMANFI | 101 | DYH7 | 836 | 844 | QHIPLIQVI | 161 | KDM2A | 303 | 311 | FNIPMQLKI | 221 | OR6K6 | 55 | 63 | FFIPLLLIY | 281 | SCNNA | 110 | 118 | FSYPVSLNI | 341 | XPO2 | 40 | 48 | QNYPLLLLT |
| 42 | C19L1 | 418 | 426 | QVIPVPISC | 102 | EED | 107 | 115 | EGDPLVFAT | 162 | KDM7A | 486 | 494 | QGIPIVCPV | 222 | P2Y14 | 23 | 31 | QIIPVLYCM | 282 | SH3G1 | 139 | 147 | FIDPLQNLC | 342 | XPO2 | 913 | 921 | EHDPVGQMV |
| 43 | C1TC | 748 | 756 | FGIPVVVAV | 103 | EFS | 373 | 381 | EGIPMAEEY | 163 | KI67 | 1255 | 1263 | QSDPVDTPT | 223 | P3C2A | 196 | 204 | FSYPLTPAT | 283 | SIGL7 | 48 | 56 | FSYPVDSQT | 343 | XPOT | 741 | 749 | EFIPLINQI |
| 44 | C1TC | 899 | 907 | FLYPLVGTM | 104 | ELF5 | 26 | 34 | FCDPLMSWT | 164 | KICS2 | 3 | 11 | ESIPLAAPV | 224 | P4K2B | 274 | 282 | EADPLPENI | 284 | SIK3 | 341 | 349 | QVDPLNEDV | 344 | ZC3HE | 438 | 446 | QIDPVMAET |
| 45 | C1TM | 942 | 950 | FIYPLVGTM | 105 | EM55 | 310 | 318 | FVYPVPYTT | 165 | KLF14 | 114 | 122 | FSDPIPCSV | 225 | PAMR1 | 142 | 150 | ESYPLNAHC | 285 | SLC31 | 182 | 190 | EVDPIFGTM | 345 | ZDHC5 | 196 | 204 | FFIPVAGLT |
| 46 | CAR10 | 936 | 944 | EIYPIVIHV | 106 | ENR1 | 353 | 361 | FTDPVGELT | 166 | KLH40 | 444 | 452 | ESDPLPYVV | 226 | PAR11 | 139 | 147 | QLIPLHNQT | 286 | SLIP | 580 | 588 | QIDPVFGSI | 346 | ZDHC8 | 196 | 204 | FFIPVIGLT |
| 47 | CATIP | 238 | 246 | EGIPMSCQY | 107 | EOGT | 92 | 100 | FGYPVCSYV | 167 | KPBB | 401 | 409 | EGYPVVPKY | 227 | PC11X | 372 | 380 | ENIPLNTKI | 287 | SNTG1 | 294 | 302 | EQDPLQDRV | 347 | ZMYM2 | 902 | 910 | QNIPVPTTV |
| 48 | CC033 | 94 | 102 | EHIPITLPI | 108 | ERP29 | 113 | 121 | ESYPVFYLF | 168 | LAT4 | 511 | 519 | QGDPLWVNV | 228 | PCCB | 384 | 392 | FNIPLITFV | 288 | SPAST | 53 | 61 | FSYPLFVGF | 348 | ZMYM4 | 1005 | 1013 | FQIPVPMPV |
| 49 | CC107 | 130 | 138 | QLDPLFERV | 109 | ES8L1 | 97 | 105 | ESYPLGAIV | 169 | LCAT | 253 | 261 | QGIPIMSSI | 229 | PCD18 | 371 | 379 | EGDPIDTFV | 289 | SRPK2 | 662 | 670 | FLIPMLEMV | 349 | ZN395 | 416 | 424 | FQIPVSPHI |
| 50 | CCR6 | 223 | 231 | FFIPLMFMI | 110 | F110B | 240 | 248 | EADPVEPAC | 170 | LIGO2 | 53 | 61 | EGIPIETKI | 230 | PCD23 | 2458 | 2466 | ESIPVGYSV | 290 | SUCR1 | 196 | 204 | FLIPLFVMC | 350 | ZN541 | 916 | 924 | QSIPVVPVT |
| 51 | CD166 | 191 | 199 | EMDPVTQLY | 111 | FAT1 | 1369 | 1377 | ESDPVAHMI | 171 | LIPL | 119 | 127 | EHYPVSAGY | 231 | PCGF5 | 241 | 249 | QSYPMVLQY | 291 | SUV3 | 562 | 570 | QHIPLSLRV | 351 | ZN608 | 1382 | 1390 | FHYPVYGKM |
| 52 | CDHR1 | 63 | 71 | EGDPISYHI | 112 | FAT2 | 1360 | 1368 | ETDPVNHMV | 172 | LPAR4 | 213 | 221 | FIIPLILNV | 232 | PCSK6 | 160 | 168 | FNDPIWSNM | 292 | SYAP1 | 166 | 174 | QMYPVALVM | 352 | ZN791 | 393 | 401 | FNYPLDLKI |
| 53 | CDHR2 | 530 | 538 | QVDPVSGTV | 113 | FAT2 | 1671 | 1679 | ESIPVGSPI | 173 | LPAR6 | 193 | 201 | FFIPLILNV | 233 | PCX1 | 1192 | 1200 | QHIPVLFSI | 293 | TAGAP | 279 | 287 | ENIPVHSSI | 353 | ZNF8 | 240 | 248 | QAIPITELT |
| 54 | CE027 | 17 | 25 | QNIPLPFLI | 114 | FAT4 | 1431 | 1439 | ENIPIGTSV | 174 | LPIN1 | 97 | 105 | EVIPMHLAT | 234 | PDCL3 | 122 | 130 | QGIPLCALI | 294 | TCAB1 | 69 | 77 | EGDPVSLST | 354 | ZSWM8 | 488 | 496 | EAYPLPGVT |
| 55 | CEAM1 | 406 | 414 | QSDPIMLNV | 115 | FBX30 | 717 | 725 | EAIPLPCMC | 175 | LTBP4 | 1124 | 1132 | EFDPMTGRC | 235 | PGCA | 53 | 61 | FIDPMHPVT | 295 | TDRD9 | 414 | 422 | QVYPLHSSV | | | | | |
| 56 | CEAM8 | 225 | 233 | FSDPVTLNV | 116 | FCERA | 206 | 214 | FFIPLLVVI | 176 | LYAM2 | 357 | 365 | QQIPVCEAF | 236 | PHB2 | 75 | 83 | FQYPIIYDI | 296 | TEAD1 | 178 | 186 | QAYPIQPAV | | | | | |
| 57 | CENPK | 80 | 88 | ETIPLTEDV | 117 | FFAR2 | 188 | 196 | FFIPMAVTI | 177 | LZTS1 | 192 | 200 | QLDPLVTPV | 237 | PHIP | 1191 | 1199 | QAYPMYCTV | 297 | TEN1 | 278 | 286 | QNYPLTSNT | | | | | |
| 58 | CERS2 | 168 | 176 | EGYPIQSTI | 118 | FINC | 1307 | 1315 | EGIPIFEDF | 178 | MA13P | 164 | 172 | EVDPISHSC | 238 | PHOP1 | 94 | 102 | EAIPLSPGM | 298 | TERB2 | 165 | 173 | QNYPVNNMV | | | | | |
| 59 | CFA46 | 1969 | 1977 | QADPVHPTC | 119 | FIP1 | 200 | 208 | EVIPVTSTT | 179 | MAGA3 | 168 | 176 | EVDPIGHLY | 239 | PI4KA | 369 | 377 | FSDPLYLTM | 299 | TF3C4 | 449 | 457 | QLIPIFTDV | | | | | |
| 60 | CFA47 | 2661 | 2669 | QIIPLVNCT | 120 | FNBP1 | 240 | 248 | QVIPIIGKC | 180 | MAGA6 | 168 | 176 | EVDPIGHVY | 240 | PIGB | 362 | 370 | FIYPVLPFC | 300 | TF65 | 480 | 488 | QGIPVAPHT | | | | | |