

>1A1CL\_HUMAN|Q96QU6 : USER001  
383 - 389 ARLKAAH

>2A5D\_HUMAN|Q14738 : USER001  
331 - 337 HKVKSLs

>2A5G\_HUMAN|Q13362 : USER001  
255 - 261 HKVKSLs

>2DOA\_HUMAN|Q9TQD3 : USER001  
90 - 96 AAIKAHL

>3BP1\_HUMAN|Q9Y3L3 : USER001  
137 - 143 AILKHKK

>4EBP1\_HUMAN|Q13541 : USER001  
96 - 102 SHLRNSP

>5HT1E\_HUMAN|P28566 : USER001  
51 - 57 KKLHQPA

>5HT1F\_HUMAN|P30939 : USER001  
110 - 116 SILHLSA  
203 - 209 KIYRAAK

>5HT2C\_HUMAN|P28335 : USER001  
373 - 379 KIYRRAF

>5HT3A\_HUMAN|P46098 : USER001  
325 - 331 FIVRLVH

>5HT5A\_HUMAN|P47898 : USER001  
222 - 228 KIYKAAK  
227 - 233 AKFRVGS  
347 - 353 SAFKNFF

>5HT6R\_HUMAN|P50406 : USER001  
262 - 268 KALKASL

>5HT7R\_HUMAN|P34969 : USER001  
110 - 116 KKLRQPS

>68MP\_HUMAN|P56378 : USER001  
4 - 10 SIIKNIW  
36 - 42 YKIRAAD  
46 - 52 KALKASA

>6PGL\_HUMAN|O95336 : USER001  
128 - 134 KKLRQAF

>8ODP\_HUMAN|P36639 : USER001  
172 - 178 KKFHGYF

>A16L1\_HUMAN|Q676U5 : USER001  
469 - 475 KKIRFWD

>A1ATR\_HUMAN|P20848 : USER001  
69 - 75 LIYHNQH  
323 - 329 YKLKRVP

>A1CF\_HUMAN|Q9NQ94 : USER001  
372 - 378 AIIRAPS

>A26A1\_HUMAN|Q6S8J7 : USER001  
204 - 210 LAVHGQK

>A2MG\_HUMAN|P01023 : USER001  
1445 - 1451 AIVKVYD

>A4GAT\_HUMAN|Q9NPC4 : USER001  
312 - 318 YAVHVWN

>A4GCT\_HUMAN|Q9UNA3 : USER001  
285 - 291 YALHLWN

>AA2BR\_HUMAN|P29275 : USER001  
290 - 296 YAYRNRD

>AA3R\_HUMAN|P33765 : USER001  
202 - 208 YIIRNKL

>AAAS\_HUMAN|Q9NRG9 : USER001  
267 - 273 AAIRVWD

>AAAT\_HUMAN|Q15758 : USER001  
199 - 205 AAFRSYS  
313 - 319 HAIHGLL  
522 - 528 KHYRGPA

>AAMP\_HUMAN|Q13685 : USER001  
87 - 93 FALHSAS

>AAPK1\_HUMAN|Q13131 : USER001  
434 - 440 LRVRRKN

>AAPK2\_HUMAN|P54646 : USER001  
438 - 444 LRVRRKN

>AASS\_HUMAN|Q9UDR5 : USER001  
646 - 652 LRYKFSW

>AATF\_HUMAN|Q9NY61 : USER001  
273 - 279 SALKNSH  
280 - 286 KALKALL  
515 - 521 LRFHVLS

>AB12B\_HUMAN|Q7Z5M8 : USER001  
156 - 162 HRLKLVK  
260 - 266 KIYRNIP

>ABC3D\_HUMAN|Q96AK3 : USER001  
215 - 221 FHFKNLL

>ABCA1\_HUMAN|O95477 : USER001  
317 - 323 LKIKSLN  
998 - 1004 ARLKGLS  
1560 - 1566 KHLKLAK  
1612 - 1618 AILRANL

>ABCA2\_HUMAN|Q9BZC7 : USER001

624 - 630 YKIRQNS  
1435 - 1441 LKVRQFH  
1516 - 1522 YRLRLSP  
1750 - 1756 AILRANL  
>ABCA3\_HUMAN|Q99758 : USER001  
152 - 158 YHLRFSY  
1481 - 1487 ARLRGIP  
>ABCA4\_HUMAN|P78363 : USER001  
1637 - 1643 AILRASL  
2037 - 2043 ARLRGVP  
>ABCA6\_HUMAN|Q8N139 : USER001  
581 - 587 AKIKGIH  
841 - 847 ARLRFLK  
>ABCA7\_HUMAN|Q8IZY2 : USER001  
513 - 519 AAVRVLS  
1493 - 1499 AILRAHL  
1892 - 1898 ARLRGVP  
>ABCA8\_HUMAN|O94911 : USER001  
135 - 141 YHLKFL  
583 - 589 AKIKGIL  
809 - 815 ARVRLK  
>ABCA9\_HUMAN|Q8IUA7 : USER001  
136 - 142 YHLKFSW  
584 - 590 AKIKGIL  
850 - 856 AKVRFLK  
>ABCAA\_HUMAN|Q8WWZ4 : USER001  
46 - 52 YRLKFNW  
>ABCAC\_HUMAN|Q86UK0 : USER001  
2054 - 2060 AIFKLPA  
2213 - 2219 KKLRLFF  
2356 - 2362 ARVHGIP  
>ABCAD\_HUMAN|Q86UQ4 : USER001  
921 - 927 YAIRNAS  
1262 - 1268 AALHQLK  
1297 - 1303 YIVRNLD  
1596 - 1602 SIYHLAS  
2073 - 2079 FRIRHLL  
2521 - 2527 SIVKLLK  
2814 - 2820 KAIHNVL  
4725 - 4731 KHYRRFF  
>ABCB5\_HUMAN|Q2M3G0 : USER001  
235 - 241 KILKLNK  
586 - 592 FILRGLS

>ABCB7\_HUMAN|O75027 : USER001  
231 - 237 LHLHNL D

>ABCB8\_HUMAN|Q9NUT2 : USER001  
64 - 70 AHLRSQ L

>ABCC8\_HUMAN|Q09428 : USER001  
1094 - 1100 KRLHRSL  
1312 - 1318 KRIHG L L

>ABCD1\_HUMAN|P33897 : USER001  
94 - 100 LALHSAA  
169 - 175 HAYRL Y F

>ABCD2\_HUMAN|Q9UBJ2 : USER001  
143 - 149 FIIK L I K

>ABCE1\_HUMAN|P61221 : USER001  
92 - 98 FKLH R L P  
507 - 513 FILHAK K

>ABCG2\_HUMAN|Q96LD6 : USER001  
44 - 50 YRVKLKS  
248 - 254 SIFKLFD

>ABCG4\_HUMAN|Q9H172 : USER001  
604 - 610 SILRALD  
628 - 634 LALRLLA  
638 - 644 LRYRVKS

>ABCG5\_HUMAN|Q9H222 : USER001  
154 - 160 LAIRRG N  
467 - 473 YALHVLP

>ABCG8\_HUMAN|Q9H221 : USER001  
149 - 155 AHVRQH N

>ABEC1\_HUMAN|P41238 : USER001  
206 - 212 FRLHLQ N

>ABHD3\_HUMAN|Q8WU67 : USER001  
203 - 209 HHVHSL Y

>ABHD7\_HUMAN|Q8IUS5 : USER001  
203 - 209 YILRHP A

>ABHD8\_HUMAN|Q96I13 : USER001  
236 - 242 AIFKRY A

>ABHD9\_HUMAN|Q9H6B9 : USER001  
122 - 128 SRFHVVA

>ABHDA\_HUMAN|Q9NUJ1 : USER001  
69 - 75 KKLKGKS

>ABHDB\_HUMAN|Q8NFV4 : USER001  
308 - 314 AAIRGFL

>ABL1\_HUMAN|P00519 : USER001  
873 - 879 SRVRRHK

>ABLM1\_HUMAN|O14639 : USER001  
510 - 516 KHFHVPD

>ABP1\_HUMAN|P19801 : USER001  
42 - 48 KAVHSFL  
324 - 330 FAFRLRS  
326 - 332 FRLRSSS  
567 - 573 FRFKRKL  
636 - 642 SIYHQND

>ABR\_HUMAN|Q12979 : USER001  
215 - 221 LKVKGPK  
427 - 433 FRIHNRN

>ABT1\_HUMAN|Q9ULW3 : USER001  
60 - 66 LHVRNLL

>ABTB2\_HUMAN|Q8N961 : USER001  
773 - 779 AKIH NAP

>ACACA\_HUMAN|Q86WB3 : USER001  
1425 - 1431 AIIRHSD  
2217 - 2223 WRLRLL  
2230 - 2236 KKIHNAN

>ACACB\_HUMAN|O00763 : USER001  
1544 - 1550 AIIRHSD  
2328 - 2334 WRLRLL

>ACAD8\_HUMAN|Q9UKU7 : USER001  
391 - 397 SRVHQIL

>ACADV\_HUMAN|P49748 : USER001  
489 - 495 SALKNPF

>ACAM\_HUMAN|Q9H6B4 : USER001  
346 - 352 KKVHHAN

>ACBD6\_HUMAN|Q9BR61 : USER001  
70 - 76 ARYKQVK  
176 - 182 KAIKSKN

>ACBG1\_HUMAN|Q96GR2 : USER001  
434 - 440 AKVRQAL

>ACD10\_HUMAN|Q6JQN1 : USER001  
938 - 944 ARVKSRL

>ACET\_HUMAN|P22966 : USER001  
456 - 462 KHLHSLN

>ACE\_HUMAN|P12821 : USER001  
517 - 523 AKFHVPN  
1030 - 1036 KHLHSLN

>ACH10\_HUMAN|Q9GZZ6 : USER001  
256 - 262 LAFHLPA

>ACHA2\_HUMAN|Q15822 : USER001

393 - 399 LRLKLS P

>ACHB2\_HUMAN|P17787 : USER001

103 - 109 KKVRLPS

228 - 234 FIIRK P

>ACHB4\_HUMAN|P30926 : USER001

226 - 232 FIIK R P

>ACHB\_HUMAN|P11230 : USER001

239 - 245 LIIRK P

358 - 364 LRLK R P K

>ACHD\_HUMAN|Q07001 : USER001

240 - 246 LIIRK P

>ACHE\_HUMAN|Q04844 : USER001

234 - 240 LIIRK P

>ACINU\_HUMAN|Q9UKV3 : USER001

100 - 106 KRLK GAL

568 - 574 HRLK QSA

>ACLY\_HUMAN|P53396 : USER001

975 - 981 HRVKSIN

1077 - 1083 KRLK QGL

>ACM4\_HUMAN|P08173 : USER001

92 - 98 YIIKGYW

>ACN9\_HUMAN|Q9NRP4 : USER001

7 - 13 SRVRALY

>ACO11\_HUMAN|Q8WXI4 : USER001

25 - 31 SALRAGN

270 - 276 FHFRGPS

>ACO12\_HUMAN|Q8WYK0 : USER001

233 - 239 FKFRGPS

402 - 408 LAYRLLS

>ACON\_HUMAN|Q99798 : USER001

604 - 610 LKFRGHL

>ACOX1\_HUMAN|Q15067 : USER001

89 - 95 KKLHLVN

304 - 310 SAVRHQS

>ACOX2\_HUMAN|Q99424 : USER001

55 - 61 SIIHSYP

85 - 91 FHIRLIA

105 - 111 YAYRALS

355 - 361 YAFHFLA

579 - 585 HAIHGIL

>ACOX3\_HUMAN|O15254 : USER001

183 - 189 FIIHSPD

>ACPL2\_HUMAN|Q8TE99 : USER001

84 - 90 HHFKLVS  
>ACRO\_HUMAN|P10323 : USER001  
31 - 37 LRFRQNP  
>ACSF4\_HUMAN|Q96BW4 : USER001  
206 - 212 KIVRVPH  
>ACSL3\_HUMAN|O95573 : USER001  
66 - 72 SAYRSVN  
197 - 203 AIVHALN  
599 - 605 AALKNLP  
>ACSL4\_HUMAN|O60488 : USER001  
44 - 50 KRIKAKP  
426 - 432 KKVKALL  
>ACSM3\_HUMAN|Q53FZ2 : USER001  
341 - 347 YKFKSLK  
>ACSM5\_HUMAN|Q6NUN0 : USER001  
154 - 160 LKYRLQA  
>ACV1C\_HUMAN|Q8NER5 : USER001  
7 - 13 SALRQAL  
>ACY1\_HUMAN|Q03154 : USER001  
165 - 171 HALRAGF  
>ADA10\_HUMAN|O14672 : USER001  
248 - 254 SHVKAID  
>ADA15\_HUMAN|Q13444 : USER001  
719 - 725 ARLHQRL  
>ADA17\_HUMAN|P78536 : USER001  
73 - 79 SALKRHF  
210 - 216 HRVKRRA  
>ADA19\_HUMAN|Q9H013 : USER001  
741 - 747 SKLRQQF  
>ADA1A\_HUMAN|Q6RUJ9 : USER001  
234 - 240 LRIHRKN  
422 - 428 ARVRSKS  
>ADA1B\_HUMAN|P35368 : USER001  
253 - 259 LRIHSKN  
>ADA22\_HUMAN|Q9P0K1 : USER001  
182 - 188 FHFHSVY  
>ADA23\_HUMAN|O75077 : USER001  
394 - 400 FHYKRSS  
>ADA30\_HUMAN|Q9UKF2 : USER001  
214 - 220 SRYRFVN  
>ADA32\_HUMAN|Q8TC27 : USER001  
594 - 600 LAVKNGS  
>ADAD1\_HUMAN|Q96M93 : USER001

99 - 105 SALHQFA  
>ADAM7\_HUMAN|Q9H2U9 : USER001  
190 - 196 SKIKGIH  
>ADAT3\_HUMAN|Q96EY9 : USER001  
321 - 327 FRIHARP  
>ADCK1\_HUMAN|Q86TW2 : USER001  
4 - 10 KALKLAS  
205 - 211 LAVKQLF  
507 - 513 LRVKGLK  
>ADCK2\_HUMAN|Q7Z695 : USER001  
95 - 101 LHLRLWL  
>ADCK3\_HUMAN|Q8NI60 : USER001  
621 - 627 SKLKARF  
>ADCK4\_HUMAN|Q96D53 : USER001  
486 - 492 YALHRKL  
>ADCL1\_HUMAN|Q6PIU2 : USER001  
280 - 286 AAVRARL  
>ADCL2\_HUMAN|Q6P093 : USER001  
162 - 168 AAVKFFL  
>ADCL4\_HUMAN|Q5VUY2 : USER001  
41 - 47 AKLRFLH  
>ADCY2\_HUMAN|Q08462 : USER001  
508 - 514 AHLHHRD  
727 - 733 AILRAQN  
>ADCY4\_HUMAN|Q8NFM4 : USER001  
769 - 775 LIVRLYL  
981 - 987 FRLRVGL  
>ADCY6\_HUMAN|O43306 : USER001  
167 - 173 LAFHAAP  
327 - 333 ARLHLQH  
734 - 740 SIVRSRA  
>ADCY9\_HUMAN|O60503 : USER001  
1161 - 1167 FKLRVGF  
>ADCYA\_HUMAN|Q96PN6 : USER001  
272 - 278 SILKQID  
881 - 887 KALKQND  
1156 - 1162 KALKLLN  
1412 - 1418 LKFHSGL  
>ADDB\_HUMAN|Q7Z689 : USER001  
85 - 91 WALRQIA  
305 - 311 KIFHLQA  
>ADDG\_HUMAN|Q9UEY8 : USER001  
387 - 393 YAYRHPL



>ADH1G\_HUMAN|P00326 : USER001  
183 - 189 SAVKVAK

>ADH6\_HUMAN|P28332 : USER001  
137 - 143 SIYHFGN

>ADIP\_HUMAN|Q9Y2D8 : USER001  
456 - 462 AAIRLGL

>ADM2\_HUMAN|Q7Z4H4 : USER001  
60 - 66 WKLHRAL

>ADNP2\_HUMAN|Q6IQ32 : USER001  
17 - 23 KKVKGIL  
1100 - 1106 KAIKNHK

>ADNP\_HUMAN|Q9H2P0 : USER001  
87 - 93 SAYKSHF  
91 - 97 SHFRNVH  
126 - 132 KIFHAPN

>ADO\_HUMAN|Q06278 : USER001  
64 - 70 KRIRHHP

>ADPGK\_HUMAN|Q9BRR6 : USER001  
30 - 36 SALRSLW  
107 - 113 SILHSRN

>ADPN\_HUMAN|Q9NST1 : USER001  
448 - 454 SILRSSL

>ADPRH\_HUMAN|P54922 : USER001  
231 - 237 LKLRGIL

>ADRB3\_HUMAN|P13945 : USER001  
354 - 360 SAFRRL

>ADRM1\_HUMAN|Q16186 : USER001  
96 - 102 LKFKAGS

>ADSV\_HUMAN|Q9Y6U3 : USER001  
60 - 66 YHLHFWL  
376 - 382 SKLHSSP

>AEDO\_HUMAN|Q96SZ5 : USER001  
52 - 58 SKLKSL

>AER61\_HUMAN|Q5NDL2 : USER001  
458 - 464 ARLRGVH

>AES\_HUMAN|Q08117 : USER001  
121 - 127 SIIRQQL

>AFAD\_HUMAN|P55196 : USER001  
801 - 807 AIIRQQL  
1077 - 1083 AIYHGLA

>AFAF\_HUMAN|Q9NQ60 : USER001  
206 - 212 YKLRHLS

>AFF1\_HUMAN|P51825 : USER001

228 - 234 SKVHGSS  
249 - 255 LAVKVHD  
>AFF2\_HUMAN|P51816 : USER001  
608 - 614 KALKHKL  
1080 - 1086 KKLKHKHA  
>AFF3\_HUMAN|P51826 : USER001  
1167 - 1173 SILHSYD  
>AFF4\_HUMAN|Q9UHB7 : USER001  
923 - 929 KKLKHNA  
>AFG31\_HUMAN|O43931 : USER001  
39 - 45 SIFKVHL  
41 - 47 FKVHLRP  
>AFG32\_HUMAN|Q9Y4W6 : USER001  
485 - 491 SIFKVHL  
487 - 493 FKVHLRP  
>AGAL\_HUMAN|P06280 : USER001  
14 - 20 LALRFLA  
>AGGF1\_HUMAN|Q8N302 : USER001  
563 - 569 KKIRVKY  
>AGK\_HUMAN|Q53H12 : USER001  
230 - 236 LKIKAAH  
>AGM1\_HUMAN|O95394 : USER001  
10 - 16 SALHAKP  
354 - 360 KHLHHKA  
>AGR2\_HUMAN|O95994 : USER001  
166 - 172 KALKLLK  
>AGTR1\_HUMAN|P30556 : USER001  
307 - 313 KKFORYF  
>AHI1\_HUMAN|Q8N157 : USER001  
492 - 498 SKLRLQL  
1014 - 1020 SKLKQSN  
>AHNK2\_HUMAN|Q8N3G4 : USER001  
188 - 194 FKIRRQL  
4702 - 4708 LHFKVPK  
5355 - 5361 LKLKASS  
5435 - 5441 SILKAGA  
>AHNK\_HUMAN|Q09666 : USER001  
825 - 831 LHLKGPN  
1202 - 1208 LHLKGPK  
1432 - 1438 AKLKGPK  
1458 - 1464 LHLKGPK  
1660 - 1666 LHLKGPK  
1836 - 1842 AKLKGPK

1862 - 1868 LHLKGPK  
1903 - 1909 AKLKGPK  
1929 - 1935 LHLKGPK  
1970 - 1976 AKLKGPK  
1996 - 2002 LHLKGPK  
2124 - 2130 LHLKGPK  
2165 - 2171 AKLKGPK  
2393 - 2399 LHLKSPK  
2586 - 2592 LHLKGPK  
2970 - 2976 LHLKGPK  
3200 - 3206 AKLKGPK  
3274 - 3280 AKLKGPK  
3350 - 3356 SRFKLPK  
3652 - 3658 AKLKGPK  
3982 - 3988 AKLKGPK  
4008 - 4014 LHLKGPK  
4122 - 4128 LHLKAPK  
4238 - 4244 AKLKGPK  
4264 - 4270 LHLKGPK  
4366 - 4372 AKLKGPK  
4466 - 4472 LHLKGPK  
4586 - 4592 LHLKAPK  
4702 - 4708 AKLKGPK  
4830 - 4836 AKLKGPK  
4923 - 4929 LHLKAPK  
5229 - 5235 AKIKFPK

>AHSA1\_HUMAN|O95433 : USER001  
274 - 280 WRFKSWP

>AIBP\_HUMAN|Q8NCW5 : USER001  
2 - 8 SRLRALL

>AIFM1\_HUMAN|O95831 : USER001  
191 - 197 LRFKQWN

>AIM1\_HUMAN|Q9Y4K1 : USER001  
1590 - 1596 FRLRNKA

>AINX\_HUMAN|Q16352 : USER001  
64 - 70 LAYRRPP  
127 - 133 AALRQRH

>AIP\_HUMAN|O00170 : USER001  
311 - 317 ARIRQKD  
322 - 328 ARFRGIF

>AIRE\_HUMAN|O43918 : USER001  
5 - 11 AALRLL

>AKA10\_HUMAN|O43572 : USER001

167 - 173 SRIRAHS

556 - 562 KILKNFD

>AKA11\_HUMAN|Q9UKA4 : USER001

1371 - 1377 LAYRSVK

>AKA12\_HUMAN|Q02952 : USER001

621 - 627 KRVRPSP

>AKAP1\_HUMAN|Q92667 : USER001

734 - 740 HALRSLD

>AKAP2\_HUMAN|Q9Y2D5 : USER001

709 - 715 FKLRSRK

>AKAP4\_HUMAN|Q5JQC9 : USER001

405 - 411 SAVKRNL

>AKAP6\_HUMAN|Q13023 : USER001

881 - 887 WILRALD

>AKAP8\_HUMAN|O43823 : USER001

584 - 590 AAVRAVD

>AKAP9\_HUMAN|Q9Y6Y2 : USER001

210 - 216 AAIKQRD

903 - 909 SKLKALN

2945 - 2951 KLIKGLL

>AKCL1\_HUMAN|Q5T2L2 : USER001

117 - 123 FIIHVPF

>AKCL2\_HUMAN|Q96JD6 : USER001

89 - 95 KALKLNY

>AKD1A\_HUMAN|Q495B1 : USER001

206 - 212 LAVRHNH

>AKIP\_HUMAN|Q9NWT8 : USER001

131 - 137 LKIRRRK

>AKNA\_HUMAN|Q64FY2 : USER001

395 - 401 LIFKSPA

1085 - 1091 SRLRLRL

>AKP13\_HUMAN|Q9Y5T6 : USER001

138 - 144 LAFRHLK

170 - 176 FAVRLGL

213 - 219 HKLHQLL

>AL1A3\_HUMAN|P47895 : USER001

450 - 456 KALKLAS

>AL2CL\_HUMAN|Q60I27 : USER001

131 - 137 KALRQLL

313 - 319 WAVHQAL

726 - 732 AAYRGLL

>AL2SA\_HUMAN|Q53TS8 : USER001

546 - 552 KKVKSRS

617 - 623 KIKIRGY

>AL2SC\_HUMAN|Q6P1L5 : USER001

284 - 290 AKLRQQL

>AL4A1\_HUMAN|P30038 : USER001

373 - 379 SRIKVG D

>AL7A1\_HUMAN|P49419 : USER001

50 - 56 ARVRQAS

>ALAT1\_HUMAN|P24298 : USER001

485 - 491 SRFHAKF

>ALBU\_HUMAN|Q9P157 : USER001

183 - 189 KRYKAAF

>ALG11\_HUMAN|Q2TAA5 : USER001

230 - 236 SKVKLIY

>ALG12\_HUMAN|Q9BV10 : USER001

97 - 103 LIVRGVL

>ALG3\_HUMAN|Q92685 : USER001

162 - 168 YRVHSIF

>ALG8\_HUMAN|Q9BVK2 : USER001

196 - 202 LHFKHIY

301 - 307 LCLKFLD

>ALG9\_HUMAN|Q9H6U8 : USER001

109 - 115 YAIRSYA

>ALKB3\_HUMAN|Q96Q83 : USER001

32 - 38 SHLHQKP

>ALKB4\_HUMAN|Q9NXW9 : USER001

254 - 260 HAIHRRH

>ALKB7\_HUMAN|Q9BT30 : USER001

165 - 171 YILRGSA

>ALK\_HUMAN|Q9UM73 : USER001

1572 - 1578 FRLRHFP

>ALLC\_HUMAN|Q8N6M5 : USER001

380 - 386 LRLRGFP

>ALMS1\_HUMAN|Q8TCU4 : USER001

473 - 479 KHLKAGD

1151 - 1157 SIFHQQA

2480 - 2486 AHVKNLL

2507 - 2513 SRVRAHA

2637 - 2643 SHFKVWN

4144 - 4150 YRLRAQL

>ALO17\_HUMAN|Q9HCF4 : USER001

1108 - 1114 LIKHKN

>ALPK2\_HUMAN|Q86TB3 : USER001

1494 - 1500 AALRLKL

>ALPK3\_HUMAN|Q96L96 : USER001  
377 - 383 YKIHQRW  
385 - 391 AKLKRKA

>ALX1\_HUMAN|Q15699 : USER001  
8 - 14 FALKSPP

>AMD\_HUMAN|P19021 : USER001  
19 - 25 LAFRSPL

>AMFR2\_HUMAN|Q9UKV5 : USER001  
31 - 37 SAYRALS

>AMGO1\_HUMAN|Q86WK6 : USER001  
257 - 263 KKLHNVF

>AMGO2\_HUMAN|Q86SJ2 : USER001  
98 - 104 LILRHNN

>AMGO3\_HUMAN|Q86WK7 : USER001  
252 - 258 LAFKVPA

>AMOL2\_HUMAN|Q9Y2J4 : USER001  
627 - 633 SRLKVLH

>AMOT\_HUMAN|Q4VCS5 : USER001  
35 - 41 LAIHQQA

>AMPB\_HUMAN|Q9H4A4 : USER001  
445 - 451 FKFRSIL

>AMPD2\_HUMAN|Q9UDX8 : USER001  
561 - 567 HRVHSPN  
809 - 815 HKVKSHW

>AMPD3\_HUMAN|Q01432 : USER001  
168 - 174 LAYHRFP

>AMPE\_HUMAN|Q07075 : USER001  
289 - 295 FAVHQFD

>AMPM2\_HUMAN|P50579 : USER001  
336 - 342 YRIHAGK

>AMPO\_HUMAN|Q8N6M6 : USER001  
752 - 758 LIVKHKF

>AMRA1\_HUMAN|Q9C0C7 : USER001  
221 - 227 SHYRQRA  
1186 - 1192 HRIHRSS

>AMTN\_HUMAN|Q6UX39 : USER001  
126 - 132 LIIHSLF

>AN18A\_HUMAN|Q8IVF6 : USER001  
744 - 750 KKLKQKF

>AN18B\_HUMAN|A2A2Z9 : USER001  
753 - 759 KKLKQKF

>AN36A\_HUMAN|Q6UX02 : USER001  
19 - 25 YHLKRIH

>AN36B\_HUMAN|Q8N2N9 : USER001  
19 - 25 YHLKRIH

>ANAG\_HUMAN|P54802 : USER001  
218 - 224 WHIKQLY

>ANC1\_HUMAN|Q9H1A4 : USER001  
303 - 309 AHLRSLS  
1916 - 1922 FKFKQLK

>ANC2\_HUMAN|Q9UJX6 : USER001  
405 - 411 KALRVLD

>ANC5\_HUMAN|Q9UJX4 : USER001  
367 - 373 KAVHFGL

>ANFY1\_HUMAN|Q9P2R3 : USER001  
70 - 76 LKIKVGD  
661 - 667 LAIRNQL  
1062 - 1068 AIVRSGA

>ANF\_HUMAN|P01160 : USER001  
113 - 119 SKLRALL

>ANGL3\_HUMAN|Q9Y5C1 : USER001  
322 - 328 SIVKQSN

>ANGL4\_HUMAN|Q9BY76 : USER001  
179 - 185 SRLHRLP

>ANGL6\_HUMAN|Q8NI99 : USER001  
155 - 161 ARFHQLD

>ANGP1\_HUMAN|Q15389 : USER001  
418 - 424 LILHGAD

>ANGP2\_HUMAN|O15123 : USER001  
371 - 377 LKIHDKD

>ANGT\_HUMAN|P01019 : USER001  
217 - 223 LHLKQPF

>ANK1\_HUMAN|P16157 : USER001  
1102 - 1108 KRVKLAL

>ANK2\_HUMAN|Q01484 : USER001  
1157 - 1163 KRIRVGL

>ANK3\_HUMAN|Q12955 : USER001  
1173 - 1179 KRIRVGL

>ANKAR\_HUMAN|Q7Z5J8 : USER001  
467 - 473 LRLKRLP

>ANKK1\_HUMAN|Q8NFD2 : USER001  
76 - 82 KKIKFQH  
600 - 606 AAYKGHL  
731 - 737 LALRSRK

>ANKR2\_HUMAN|Q9GZV1 : USER001  
267 - 273 KIIKLLL

>ANKR5\_HUMAN|Q9NU02 : USER001  
50 - 56 SALHLAS  
325 - 331 WALRLHD

>ANKR6\_HUMAN|Q9Y2G4 : USER001  
188 - 194 SIIRLLL  
247 - 253 ARYHNNP  
586 - 592 SRLRNVK

>ANKS6\_HUMAN|Q8N9L6 : USER001  
437 - 443 SKVRQPW

>ANKY1\_HUMAN|Q9P2S6 : USER001  
226 - 232 YKFRNKP  
552 - 558 LAVKAGD

>ANKY2\_HUMAN|Q8IV38 : USER001  
53 - 59 AAYKGKL

>ANM1\_HUMAN|Q99873 : USER001  
118 - 124 KIVKANK

>ANM2\_HUMAN|P55345 : USER001  
245 - 251 AALHLVP  
274 - 280 SALKSLA

>ANM5\_HUMAN|O14744 : USER001  
253 - 259 LIFRLLK

>ANM6\_HUMAN|Q96LA8 : USER001  
357 - 363 LRYKVGD

>ANM7\_HUMAN|Q9NVM4 : USER001  
441 - 447 KIFKANH

>ANM8\_HUMAN|Q9NR22 : USER001  
151 - 157 KIIKANH

>ANPRA\_HUMAN|P16066 : USER001  
10 - 16 SRLRLLL  
170 - 176 AALHRRL  
959 - 965 FRIRHRP  
1012 - 1018 LKIHLS

>ANPRB\_HUMAN|P20594 : USER001  
944 - 950 FRIRHRP  
997 - 1003 LKIHVSS

>ANR12\_HUMAN|Q6UB98 : USER001  
1284 - 1290 SHLRSSS

>ANR17\_HUMAN|Q9H6J9 : USER001  
315 - 321 KIVKLLL  
1232 - 1238 AAVKLLL

>ANR19\_HUMAN|Q9H560 : USER001  
258 - 264 KILKSHL

>ANR27\_HUMAN|Q96NW4 : USER001



516 - 522 LHYKASA

751 - 757 AALHGRA

>ANR28\_HUMAN|O15084 : USER001

590 - 596 AAYHGHH

>ANR33\_HUMAN|Q7Z3H0 : USER001

116 - 122 WRIRQLL

>ANR41\_HUMAN|Q8NAG6 : USER001

28 - 34 AAVHLAA

>ANR42\_HUMAN|Q8N9B4 : USER001

23 - 29 KKVHFGS

72 - 78 AAIRGQD

138 - 144 AAFHGRL

>ANR43\_HUMAN|Q2M3V2 : USER001

432 - 438 YALRLL

>ANR50\_HUMAN|Q9ULJ7 : USER001

215 - 221 YILHRLD

401 - 407 FALHLIN

>ANR52\_HUMAN|Q8NB46 : USER001

146 - 152 HAVHSGH

313 - 319 AAIHGRF

>ANR55\_HUMAN|Q3KP44 : USER001

168 - 174 AAFHNQP

>ANR56\_HUMAN|A6NEL2 : USER001

28 - 34 SHFKSFL

600 - 606 WIVKLAS

>ANR58\_HUMAN|A6NJG2 : USER001

170 - 176 FALRRGL

>ANRA2\_HUMAN|Q9H9E1 : USER001

254 - 260 YAVHGNH

>ANS4B\_HUMAN|Q8N8V4 : USER001

39 - 45 AAYHGNL

205 - 211 FKI KFKK

>ANT3\_HUMAN|P01008 : USER001

290 - 296 FRYRRVA

>ANX10\_HUMAN|Q9UJ72 : USER001

252 - 258 FAYRLYS

>ANXA2\_HUMAN|P07355 : USER001

85 - 91 SALKSAL

>ANXA4\_HUMAN|P09525 : USER001

285 - 291 AHFKRLY

>AOC2\_HUMAN|O75106 : USER001

518 - 524 HAFHFKL

642 - 648 SIYHQND

>AOFA\_HUMAN|P21397 : USER001  
279 - 285 AKIHFRP  
519 - 525 YKYKLLP

>AOFB\_HUMAN|P27338 : USER001  
90 - 96 HHVKGKS

>AP1B1\_HUMAN|Q10567 : USER001  
487 - 493 AIVKLFL

>AP1G1\_HUMAN|O43747 : USER001  
32 - 38 AAIRSSF

>AP1G2\_HUMAN|O75843 : USER001  
33 - 39 AHIRASF  
755 - 761 LRLKLRL

>AP2A1\_HUMAN|O95782 : USER001  
274 - 280 AAVKGRL  
614 - 620 AKLKRKK  
891 - 897 KIFKANH

>AP2B1\_HUMAN|P63010 : USER001  
487 - 493 AIVKLFL

>AP2M1\_HUMAN|Q96CW1 : USER001  
56 - 62 FHVKRSN

>AP3B1\_HUMAN|O00203 : USER001  
134 - 140 SALRVLS

>AP3B2\_HUMAN|Q13367 : USER001  
129 - 135 SALRVLS

>AP3S1\_HUMAN|Q92572 : USER001  
63 - 69 LIYRHYA

>AP3S2\_HUMAN|P59780 : USER001  
63 - 69 LIYRHYA  
163 - 169 SAVKNIN

>AP4E1\_HUMAN|Q9UPM8 : USER001  
193 - 199 YKFHLIA  
791 - 797 HKFRRKS

>AP4S1\_HUMAN|Q9Y587 : USER001  
57 - 63 LIYRQYA

>APAF\_HUMAN|Q9UJ66 : USER001  
1221 - 1227 KKIHVSP

>APBA1\_HUMAN|Q02410 : USER001  
233 - 239 ARLHHYD  
724 - 730 SIIKGLK

>APBA2\_HUMAN|Q99767 : USER001  
210 - 216 YRLRRGD

>APBA3\_HUMAN|O96018 : USER001  
486 - 492 AIIHRPH

>APBB2\_HUMAN|Q92870 : USER001  
394 - 400 LKLRNAP

>APBP2\_HUMAN|Q92624 : USER001  
170 - 176 LHVRNGN

>APC2\_HUMAN|O95996 : USER001  
242 - 248 LAVKSVP  
460 - 466 LALRRYA  
511 - 517 SILRNLS  
689 - 695 AALRNLL  
913 - 919 LRLKAAH

>APCD1\_HUMAN|Q8J025 : USER001  
57 - 63 KHLHNGA

>APC\_HUMAN|P25054 : USER001  
229 - 235 LRIRQLL  
1006 - 1012 HKIHSAN  
1085 - 1091 KHLKFQP

>APEX1\_HUMAN|P27695 : USER001  
298 - 304 SKIRSKA

>API5\_HUMAN|Q9BZZ5 : USER001  
373 - 379 FKIRLQY

>APLP1\_HUMAN|P51693 : USER001  
411 - 417 LALRRYL

>APMAP\_HUMAN|Q9HDC9 : USER001  
279 - 285 ARIRRVY

>APOB\_HUMAN|Q13787 : USER001  
399 - 405 KRVHANP  
2216 - 2222 YHIRVNL  
2425 - 2431 KKLKSFQ  
3056 - 3062 LKVRFPL  
4102 - 4108 SKLRRNL  
4233 - 4239 SKVHNGS  
4495 - 4501 FRYKLQD

>APOE\_HUMAN|P02649 : USER001  
151 - 157 LRVRLAS  
277 - 283 ARLKSWF

>APOF\_HUMAN|Q13790 : USER001  
71 - 77 LALRNAL  
292 - 298 AIIKSYD

>APOL6\_HUMAN|Q9BWW8 : USER001  
189 - 195 WKLRANP

>APRV1\_HUMAN|Q53RT3 : USER001  
266 - 272 LKLKAQF  
308 - 314 KKFRLLP

>APTX\_HUMAN|Q7Z2E3 : USER001  
256 - 262 SKLRFRL  
258 - 264 LRFRLGY

>AQP10\_HUMAN|Q96PS8 : USER001  
14 - 20 LRIRSL

>AQP11\_HUMAN|Q8NBQ7 : USER001  
191 - 197 LRIHLLA

>AQP12\_HUMAN|Q8IXF9 : USER001  
166 - 172 LHLRHSP

>AQR\_HUMAN|O60306 : USER001  
125 - 131 HILKAAL  
1042 - 1048 AALKRHD

>AR13A\_HUMAN|Q5H913 : USER001  
250 - 256 LAIKSIL

>ARAF\_HUMAN|P10398 : USER001  
49 - 55 LKVRGLN  
392 - 398 HHLHVAD

>ARBK1\_HUMAN|P25098 : USER001  
622 - 628 LKIRGGK

>ARBK2\_HUMAN|P35626 : USER001  
622 - 628 FRIKGGK

>ARCH\_HUMAN|Q8IWT0 : USER001  
18 - 24 KAIKAKY

>ARD1A\_HUMAN|P41227 : USER001  
75 - 81 LAVKRSH  
117 - 123 AALHLYS

>ARD1B\_HUMAN|Q9BSU3 : USER001  
75 - 81 LAVKRSH

>ARFG2\_HUMAN|Q8N6H7 : USER001  
15 - 21 KRLRAVP

>ARFG3\_HUMAN|Q9NP61 : USER001  
14 - 20 KRLRSVP

>ARGI2\_HUMAN|P78540 : USER001  
207 - 213 FILKNYD

>ARHG1\_HUMAN|Q92888 : USER001  
625 - 631 SHLRQSS

>ARHG2\_HUMAN|Q92974 : USER001  
346 - 352 KALKLYK

>ARHG4\_HUMAN|Q9NR80 : USER001  
540 - 546 FRLHRGA

>ARHG6\_HUMAN|Q15052 : USER001  
163 - 169 LIVKARF

>ARHG7\_HUMAN|Q14155 : USER001

149 - 155 HRIKSFD  
439 - 445 AAFKNLS  
>ARHG8\_HUMAN|Q7Z628 : USER001  
466 - 472 FRIRFHD  
>ARHG9\_HUMAN|O43307 : USER001  
27 - 33 LAFKAGD  
>ARHGA\_HUMAN|O15013 : USER001  
1010 - 1016 KKVRLQH  
>ARHGF\_HUMAN|O94989 : USER001  
481 - 487 SRVRSSP  
621 - 627 HKVKALP  
>ARHGG\_HUMAN|Q5VV41 : USER001  
488 - 494 SKVKSLP  
>ARHGH\_HUMAN|Q96PE2 : USER001  
562 - 568 SALKSSS  
1912 - 1918 AIIRQHK  
>ARHGJ\_HUMAN|Q8IW93 : USER001  
611 - 617 AKLKLSS  
>ARHL2\_HUMAN|Q9NX46 : USER001  
196 - 202 LAVHLAL  
>ARI1B\_HUMAN|Q8NFD5 : USER001  
98 - 104 HHLHHHH  
>ARI1\_HUMAN|Q9Y4X5 : USER001  
252 - 258 SKVCLKY  
>ARI4A\_HUMAN|P29374 : USER001  
18 - 24 AKYRGAF  
>ARI4B\_HUMAN|Q9P2W4 : USER001  
18 - 24 AKYRGAF  
639 - 645 KKIKNKL  
904 - 910 KRIKLLN  
>ARI5A\_HUMAN|Q03989 : USER001  
457 - 463 KRLRAVS  
561 - 567 SALRHRL  
>ARID2\_HUMAN|Q9HCL5 : USER001  
87 - 93 FALKQYY  
>ARIP4\_HUMAN|Q9Y4B4 : USER001  
567 - 573 LKIHLPA  
860 - 866 YIYRLVA  
>ARK72\_HUMAN|O43488 : USER001  
58 - 64 AAVRAFL  
>ARL11\_HUMAN|Q969Q4 : USER001  
133 - 139 LKIRNRL  
>ARL14\_HUMAN|Q8N4G2 : USER001

31 - 37 YKLKLA

>ARMC2\_HUMAN|Q8NEN0 : USER001

116 - 122 AKIRRV

>ARMC3\_HUMAN|Q5W041 : USER001

48 - 54 AIYKFAL

81 - 87 KIVRRNA

>ARMC7\_HUMAN|Q9H6L4 : USER001

154 - 160 ARLRNLA

>ARMC8\_HUMAN|Q8IUR7 : USER001

360 - 366 AAFKLYA

610 - 616 SHVKLQL

>ARMC9\_HUMAN|Q7Z3E5 : USER001

175 - 181 LKLKLIK

565 - 571 FIIKQLN

>ARMS\_HUMAN|Q9ULH0 : USER001

724 - 730 KRLHNAA

>ARMX1\_HUMAN|Q9P291 : USER001

429 - 435 KKIKALA

>ARMX2\_HUMAN|Q7L311 : USER001

608 - 614 KKIRALA

>ARNT2\_HUMAN|Q9HBZ2 : USER001

261 - 267 KRFRNGL

>ARNT\_HUMAN|P27540 : USER001

427 - 433 FRFRSKN

>ARP19\_HUMAN|P56211 : USER001

30 - 36 AKLKARY

>ARP5L\_HUMAN|Q9BPX5 : USER001

8 - 14 SRFRRVD

59 - 65 AALRNSP

>ARP5\_HUMAN|Q9H9F9 : USER001

437 - 443 AAYHQLF

>ARP8\_HUMAN|Q9H981 : USER001

514 - 520 AILHSID

>ARPC4\_HUMAN|P59998 : USER001

102 - 108 FILRRKP

>ARPC5\_HUMAN|O15511 : USER001

57 - 63 AALKNPP

>ARRB1\_HUMAN|P49407 : USER001

321 - 327 YKVKVKL

>ARRB2\_HUMAN|P32121 : USER001

322 - 328 YRVKVKL

>ARRC\_HUMAN|P36575 : USER001

318 - 324 YKVRVNL

>ARSA1\_HUMAN|O43681 : USER001  
314 - 320 HIVKLPL

>ARSB\_HUMAN|P15848 : USER001  
431 - 437 AAIRHGN

>ARSD\_HUMAN|P51689 : USER001  
194 - 200 AALRAQL

>ARSJ\_HUMAN|Q5FYB0 : USER001  
447 - 453 SAIRVQH

>ARSK\_HUMAN|Q6UWY0 : USER001  
295 - 301 LALHQLD  
393 - 399 HKVKNLH

>ARV1\_HUMAN|Q9UFF5 : USER001  
264 - 270 AIFKSQD

>ARX\_HUMAN|Q96QS3 : USER001  
533 - 539 AALRLKA

>AS250\_HUMAN|Q9ULE8 : USER001  
29 - 35 KHLRALL  
69 - 75 LKLKGNN  
1297 - 1303 YIYRVLH

>ASAH1\_HUMAN|Q02083 : USER001  
137 - 143 HIYHGRN  
303 - 309 SAIKALN

>ASB13\_HUMAN|Q8WXK3 : USER001  
190 - 196 AKVKNVD

>ASB15\_HUMAN|Q8WXK1 : USER001  
117 - 123 LAVKAGL  
512 - 518 AKLKSAL

>ASB16\_HUMAN|Q96NS5 : USER001  
417 - 423 LAVRARL

>ASB17\_HUMAN|Q8WXJ9 : USER001  
25 - 31 KIVKRPS

>ASB18\_HUMAN|Q6ZVZ8 : USER001  
18 - 24 KRLKSAL

>ASB1\_HUMAN|Q9Y576 : USER001  
314 - 320 HRLHLIP

>ASB2\_HUMAN|Q96Q27 : USER001  
563 - 569 YRIKLLD

>ASB3\_HUMAN|Q9Y575 : USER001  
383 - 389 HAIKAQA

>ASB4\_HUMAN|Q9Y574 : USER001  
69 - 75 YKLGSSW

>ASB6\_HUMAN|Q9NWX5 : USER001  
270 - 276 FKLHFPL

>ASB8\_HUMAN|Q9H765 : USER001  
27 - 33 AAIRSF  
125 - 131 AAFKNNA  
256 - 262 YAVRRSL

>ASCL5\_HUMAN|Q7RTU5 : USER001  
176 - 182 ARLRGHL

>ASC\_HUMAN|Q9ULZ3 : USER001  
21 - 27 KKFKLKL  
23 - 29 FKLKLLS

>ASGL1\_HUMAN|Q7L266 : USER001  
224 - 230 SILKVNL

>ASGR2\_HUMAN|P07307 : USER001  
148 - 154 FHLKHFP

>ASH1L\_HUMAN|Q9NR48 : USER001  
121 - 127 KALKSGK  
1515 - 1521 KRYRFGK  
1828 - 1834 KILKAKK  
1884 - 1890 AALHLSP

>ASPH\_HUMAN|Q12797 : USER001  
496 - 502 FILKAQN

>ASPM\_HUMAN|Q9NVT6 : USER001  
600 - 606 KRIHFSP  
1546 - 1552 AAFRRLK  
1699 - 1705 LHLRAAA  
1810 - 1816 AAYRGGYK  
1833 - 1839 SAFRGYN  
1883 - 1889 SAYRGWK  
2052 - 2058 SKYRAYK  
2248 - 2254 AIFRGKK  
2416 - 2422 SRFRSLL  
2976 - 2982 AILKAVK  
3038 - 3044 AHYRGGYK  
3104 - 3110 AKIRLLH  
3132 - 3138 LAVKNAN  
3190 - 3196 KAVRHFL  
3230 - 3236 KAIRLSL

>ASPN\_HUMAN|Q9BXN1 : USER001  
149 - 155 KKLRRLY

>ASPP1\_HUMAN|Q96KQ4 : USER001  
882 - 888 LRVRFNP  
935 - 941 HIVKFLL

>ASPP2\_HUMAN|Q13625 : USER001  
191 - 197 KKVRAK



>ASSY\_HUMAN|P00966 : USER001  
50 - 56 KALKLGA

>ASTN1\_HUMAN|O14525 : USER001  
120 - 126 FHIHHQD

>ASTN2\_HUMAN|Q8WV47 : USER001  
857 - 863 WRVRSNL

>ASXL1\_HUMAN|Q8IXJ9 : USER001  
215 - 221 AAIRGQA

>ASXL2\_HUMAN|Q76L83 : USER001  
164 - 170 KALKQAL  
1275 - 1281 HAVRGKA  
1280 - 1286 KAIRSSP

>ASXL3\_HUMAN|Q9C0F0 : USER001  
155 - 161 KALKQAL  
1023 - 1029 FIIKSQP  
2115 - 2121 FALKSAD

>ASZ1\_HUMAN|Q8WWH4 : USER001  
4 - 10 SALRGLP

>AT10A\_HUMAN|O60312 : USER001  
1074 - 1080 LILHGHW  
1413 - 1419 SKVRAAS

>AT10B\_HUMAN|O94823 : USER001  
1215 - 1221 LAYKGS D

>AT10D\_HUMAN|Q9P241 : USER001  
253 - 259 SRFRGFL

>AT11B\_HUMAN|Q9Y2G3 : USER001  
334 - 340 KILRFIS  
855 - 861 ARFKFLS

>AT131\_HUMAN|Q9HD20 : USER001  
379 - 385 SRLHVIF  
618 - 624 LKIHQRF  
651 - 657 AAVKGAP

>AT133\_HUMAN|Q9H7F0 : USER001  
84 - 90 AKIRVLS

>AT134\_HUMAN|Q4VNC1 : USER001  
160 - 166 AKIHQKF  
567 - 573 FHIKGVP  
594 - 600 AILHQFP

>AT1A1\_HUMAN|P05023 : USER001  
1007 - 1013 LIIRRRP

>AT1A2\_HUMAN|P50993 : USER001  
1004 - 1010 LILRRYP

>AT1A3\_HUMAN|P13637 : USER001

997 - 1003 LILRRNP  
>AT1B2\_HUMAN|P14415 : USER001  
233 - 239 KKFHVNY  
>AT1B3\_HUMAN|P54709 : USER001  
220 - 226 KKLHVGY  
>AT2A1\_HUMAN|O14983 : USER001  
331 - 337 AIVRSLP  
957 - 963 FKLRALD  
>AT2A2\_HUMAN|P16615 : USER001  
331 - 337 AIVRSLP  
>AT2A3\_HUMAN|Q93084 : USER001  
331 - 337 AIVRSLP  
>AT2B1\_HUMAN|P20020 : USER001  
1064 - 1070 SRLKFLK  
>AT2B2\_HUMAN|Q01814 : USER001  
1087 - 1093 SRLKFLK  
1145 - 1151 KAFRSSL  
1194 - 1200 AALKQNS  
>AT2B3\_HUMAN|Q16720 : USER001  
1119 - 1125 KAFRSSL  
>AT2B4\_HUMAN|P23634 : USER001  
340 - 346 KAVKVPK  
1144 - 1150 KAFHSSL  
>AT2C2\_HUMAN|O75185 : USER001  
2 - 8 LHFHLLK  
>AT2L1\_HUMAN|Q8TBG4 : USER001  
137 - 143 HAYHGHL  
>AT2L2\_HUMAN|Q8IUZ5 : USER001  
12 - 18 LALRQRL  
138 - 144 HAYHGHL  
153 - 159 YKFRNLD  
>AT7L1\_HUMAN|Q9ULK2 : USER001  
722 - 728 LALHAGD  
>AT8A1\_HUMAN|Q9Y2Q0 : USER001  
194 - 200 LKIRQGL  
>AT8A2\_HUMAN|Q9NTI2 : USER001  
173 - 179 LKIRQGL  
>AT8B1\_HUMAN|O43520 : USER001  
819 - 825 KILKLFK  
>AT8B3\_HUMAN|O60423 : USER001  
278 - 284 LKFRQAL  
1215 - 1221 LALRVIF  
>AT8B4\_HUMAN|Q8TF62 : USER001

173 - 179 LKVRHAL  
>ATAD1\_HUMAN|Q8NBU5 : USER001  
180 - 186 LAIKLQP  
267 - 273 AILKLIL  
>ATAD2\_HUMAN|Q6PL18 : USER001  
353 - 359 HAIHSSD  
936 - 942 LILKQAA  
>ATAD4\_HUMAN|Q9BU68 : USER001  
66 - 72 KHVKVSN  
>ATAD5\_HUMAN|Q96QE3 : USER001  
405 - 411 KAFRQPA  
921 - 927 SKLKSGN  
1074 - 1080 KKLHSWL  
>ATBP3\_HUMAN|Q7Z7A3 : USER001  
14 - 20 AALRRPL  
100 - 106 AAVRRQA  
225 - 231 AHFRRLD  
>ATD2B\_HUMAN|Q9ULI0 : USER001  
323 - 329 SHIRKCK  
330 - 336 HAIHSSD  
407 - 413 HHIHALK  
1046 - 1052 KIIRHRA  
1081 - 1087 ARIKRGL  
1132 - 1138 FRVRRKS  
>ATF5\_HUMAN|Q9Y2D1 : USER001  
223 - 229 LRYRQRK  
>ATF6A\_HUMAN|P18850 : USER001  
336 - 342 ARLKAAL  
626 - 632 LHIKSSS  
>ATF6B\_HUMAN|Q9NPL0 : USER001  
372 - 378 AALRRRL  
>ATG2A\_HUMAN|Q2TAZ0 : USER001  
878 - 884 SAFKLAN  
1561 - 1567 KALHVAP  
>ATG2B\_HUMAN|Q96BY7 : USER001  
69 - 75 FHVHLWS  
118 - 124 AALHLSL  
444 - 450 SKVKFQH  
681 - 687 LKLRSL  
>ATG3\_HUMAN|Q9NT62 : USER001  
61 - 67 LKVKAYL  
>ATG4D\_HUMAN|Q86TL0 : USER001  
186 - 192 SRYHGPA

>ATG7\_HUMAN|O95352 : USER001  
140 - 146 KKYHFYY

>ATG9A\_HUMAN|Q9HAG7 : USER001  
650 - 656 SALRSFS

>ATG9B\_HUMAN|Q674R7 : USER001  
420 - 426 HAYKRSD

>ATL1\_HUMAN|Q8N6G6 : USER001  
456 - 462 LRYRVVL

>ATL2\_HUMAN|Q86TH1 : USER001  
926 - 932 LAIKVNL

>ATL3\_HUMAN|P82987 : USER001  
498 - 504 LRYRVVL  
967 - 973 LKIHGLA  
1082 - 1088 AAVKQGA

>ATMIN\_HUMAN|O43313 : USER001  
566 - 572 SILKHSS

>ATM\_HUMAN|Q13315 : USER001  
2450 - 2456 LALRALK

>ATN1\_HUMAN|P54259 : USER001  
1050 - 1056 SHIHSHL  
1056 - 1062 LHLHQQD

>ATP5E\_HUMAN|P56381 : USER001  
44 - 50 KIVKVKK

>ATP6\_HUMAN|Q8HNQ4 : USER001  
119 - 125 SKIKNAL

>ATP7A\_HUMAN|Q04656 : USER001  
37 - 43 HHIKVSL

>ATPF2\_HUMAN|Q8N5M1 : USER001  
130 - 136 AAVKFLD

>ATRIP\_HUMAN|Q8WXE1 : USER001  
85 - 91 HKVHRL  
524 - 530 SALRGVA

>ATRX\_HUMAN|Q9H0Z1 : USER001  
185 - 191 SIYRHPS  
393 - 399 KAFKSVL  
736 - 742 AILKGVS

>ATR\_HUMAN|Q13535 : USER001  
464 - 470 SALKQKA  
1262 - 1268 KKIKAVL  
1901 - 1907 LALRRAL

>ATS10\_HUMAN|Q9H324 : USER001  
24 - 30 HAFRSQD  
811 - 817 LRYRFNA

>ATS13\_HUMAN|Q76LX8 : USER001  
124 - 130 FRVHLVK  
381 - 387 AAVHGRW

>ATS14\_HUMAN|Q8WXS8 : USER001  
117 - 123 LHLRLRP  
431 - 437 AAFHRFH  
851 - 857 WALKSWA

>ATS15\_HUMAN|Q8TE58 : USER001  
183 - 189 AILRALD

>ATS17\_HUMAN|Q8TE56 : USER001  
563 - 569 ARFRQRK

>ATS18\_HUMAN|Q8TE60 : USER001  
97 - 103 LHYRFSA  
789 - 795 LAVRSLS

>ATS19\_HUMAN|Q8TE59 : USER001  
287 - 293 SALHSHY

>ATS1\_HUMAN|Q9UHI8 : USER001  
76 - 82 LRLHAFD  
768 - 774 LAIKAAD

>ATS20\_HUMAN|P59510 : USER001  
1771 - 1777 FRLKNPY

>ATS2\_HUMAN|O95450 : USER001  
120 - 126 LHLRLRP  
441 - 447 AAFHRFH

>ATS3\_HUMAN|O15072 : USER001  
91 - 97 FHLRLKP  
431 - 437 AAFHRYH  
753 - 759 LAIKNQA  
849 - 855 WALKSWS  
1154 - 1160 KRVHLSS

>ATS4\_HUMAN|O75173 : USER001  
179 - 185 HILRRKS  
251 - 257 KAFKHPS  
727 - 733 LALKLPD

>ATS6\_HUMAN|Q9UKP5 : USER001  
94 - 100 KHFHLNL  
448 - 454 SRXHHQL

>ATS8\_HUMAN|Q9UP79 : USER001  
54 - 60 LALHLSA

>ATS9\_HUMAN|Q9P2N4 : USER001  
98 - 104 AHYRLSA  
1743 - 1749 KRLKGAS

>ATX2\_HUMAN|Q99700 : USER001

1191 - 1197 AIYHAGL

>AURKB\_HUMAN|Q96GD4 : USER001

130 - 136 AHLHHPN

>AUT2L\_HUMAN|Q9HCM7 : USER001

292 - 298 LALRSQA

906 - 912 AALHNGL

>AUTS2\_HUMAN|Q8WXX7 : USER001

170 - 176 KALRQLK

>AVIL\_HUMAN|O75366 : USER001

5 - 11 SAFRAVD

487 - 493 AIFKGKL

693 - 699 LIIKQGF

>AVPI1\_HUMAN|Q5T686 : USER001

127 - 133 ARIRRNW

>AX2R\_HUMAN|Q3ZCQ2 : USER001

116 - 122 LRLRQLP

168 - 174 WILRVGF

>AXN2\_HUMAN|Q9Y2T1 : USER001

512 - 518 KHVHHHY

>AZI1\_HUMAN|Q9UPN4 : USER001

1060 - 1066 AAVKRAD

>B2L10\_HUMAN|Q9HD36 : USER001

44 - 50 ARLRQIH

>B3A2\_HUMAN|P04920 : USER001

79 - 85 HHHHPL

>B3A3\_HUMAN|P48751 : USER001

93 - 99 HKLRRLP

>B3GA1\_HUMAN|Q9P2W7 : USER001

273 - 279 FKLRGVK

>B3GA3\_HUMAN|O94766 : USER001

3 - 9 LKLKNVF

>B3GL2\_HUMAN|Q8NCR0 : USER001

15 - 21 AALHLWL

21 - 27 LRLRSPP

>B3GLT\_HUMAN|Q6Y288 : USER001

80 - 86 SILKQAA

>B3GN2\_HUMAN|Q9NY97 : USER001

315 - 321 LALRLYH

>B3GN3\_HUMAN|Q9Y2A9 : USER001

281 - 287 AALRRAA

>B3GN4\_HUMAN|Q9C0J1 : USER001

122 - 128 LAIKSQP

>B3GN6\_HUMAN|Q6ZMB0 : USER001

121 - 127 LAVKSAP  
200 - 206 KHLHLLD  
368 - 374 KALHSPA  
>B3GN8\_HUMAN|Q7Z7M8 : USER001  
258 - 264 AHLRALP  
>B3GT1\_HUMAN|Q9Y5Z6 : USER001  
187 - 193 LIYKLLK  
>B3GT2\_HUMAN|O43825 : USER001  
326 - 332 KIFKVSL  
>B3GT4\_HUMAN|O96024 : USER001  
276 - 282 LILKVAS  
>B4GN1\_HUMAN|Q00973 : USER001  
485 - 491 SKLKLPW  
>B4GN3\_HUMAN|Q6L9W6 : USER001  
339 - 345 SHLRHVL  
880 - 886 LHIHFPA  
>B4GN4\_HUMAN|Q76KP1 : USER001  
916 - 922 LHIHFPP  
1010 - 1016 LRLRNFY  
>B4GT3\_HUMAN|O60512 : USER001  
136 - 142 HHLRLLL  
>B4GT4\_HUMAN|O60513 : USER001  
11 - 17 YKFRLLL  
>BACE1\_HUMAN|P56817 : USER001  
304 - 310 AAVKSIK  
>BACH1\_HUMAN|O14867 : USER001  
126 - 132 LKFKFLD  
>BACH\_HUMAN|Q5TGR4 : USER001  
321 - 327 KRYRAAS  
>BAG1\_HUMAN|Q99933 : USER001  
190 - 196 LIFKGKS  
>BAG2\_HUMAN|O95816 : USER001  
168 - 174 KIKRRL  
>BAHC1\_HUMAN|Q9P281 : USER001  
1838 - 1844 SKVKHKA  
>BAI1\_HUMAN|O14514 : USER001  
1286 - 1292 LHLHGSP  
>BAI3\_HUMAN|O60242 : USER001  
2 - 8 KAVRNLL  
1056 - 1062 KKLKHRA  
1341 - 1347 LHYKVNP  
>BAIP3\_HUMAN|O94812 : USER001  
566 - 572 AALKRGN

>BANK1\_HUMAN|Q8NDB2 : USER001  
103 - 109 KILHSPK

>BANP\_HUMAN|Q8N9N5 : USER001  
354 - 360 LAVKSFS

>BAP1\_HUMAN|Q92560 : USER001  
243 - 249 ARLHVLK

>BAP31\_HUMAN|P51572 : USER001  
34 - 40 KIFKSRL

>BARD1\_HUMAN|Q99728 : USER001  
109 - 115 SKLRNLL

>BARX1\_HUMAN|Q9HBU1 : USER001  
92 - 98 LHVRGKL

>BASI\_HUMAN|P35613 : USER001  
316 - 322 LRVRS HL

>BAT2\_HUMAN|Q5STX7 : USER001  
223 - 229 SKLHHGH

>BATF\_HUMAN|Q16520 : USER001  
111 - 117 HAFHQPH

>BAZ1A\_HUMAN|Q9NRL2 : USER001  
190 - 196 FKYKVQP

>BAZ1B\_HUMAN|Q9UIG0 : USER001  
351 - 357 LKVKNSK  
474 - 480 AALHLIA

>BAZ2A\_HUMAN|Q9UIF9 : USER001  
83 - 89 SHLHHPS

>BAZ2B\_HUMAN|Q9UIF8 : USER001  
127 - 133 KRIHQPL  
582 - 588 KKLRQYP  
611 - 617 AKIRVGD  
1796 - 1802 LHVKGKK

>BBS10\_HUMAN|Q8TAM1 : USER001  
299 - 305 KHLHSQN  
487 - 493 LKVHSNL

>BBS2\_HUMAN|Q9BXC9 : USER001  
236 - 242 WRIKSKN

>BBS4\_HUMAN|Q96RK4 : USER001  
322 - 328 SAFHFLS

>BBS5\_HUMAN|Q8N3I7 : USER001  
140 - 146 FKLRSAL

>BBS7\_HUMAN|Q8IWZ6 : USER001  
193 - 199 LALHNGN

>BBX\_HUMAN|Q8WY36 : USER001  
750 - 756 SKYKHKK



798 - 804 HKVKNIP

>BC11B\_HUMAN|Q9C0K0 : USER001

442 - 448 LIVHRRS

>BCAT1\_HUMAN|P54687 : USER001

99 - 105 KAFRGVD

>BCAT2\_HUMAN|O15382 : USER001

106 - 112 KAFKGKD

368 - 374 LILRFQK

>BCCIP\_HUMAN|Q9P287 : USER001

260 - 266 AILKFNY

>BCDO2\_HUMAN|Q9BYV7 : USER001

289 - 295 SKIRGKA

413 - 419 SAVKQAD

453 - 459 KKYHFFY

>BCKD\_HUMAN|O14874 : USER001

25 - 31 LALRARS

398 - 404 LRLRHID

>BCL10\_HUMAN|O95999 : USER001

104 - 110 LKLARNIK

>BCL3\_HUMAN|P20749 : USER001

303 - 309 SALHSAS

>BCL6B\_HUMAN|Q8N143 : USER001

31 - 37 LRLRGIL

65 - 71 SIFRGRA

99 - 105 SRLRLSP

338 - 344 FRYKGNL

448 - 454 LHFRHKS

458 - 464 LHLRQKH

>BCL6\_HUMAN|P41182 : USER001

555 - 561 FRYKGNL

665 - 671 LHFRHKS

675 - 681 LHLRQKH

>BCL9L\_HUMAN|Q86UU0 : USER001

264 - 270 LAYHQQN

818 - 824 ARVRAQN

993 - 999 SRLKSPS

>BCLX\_HUMAN|Q07817 : USER001

84 - 90 AAVKQAL

99 - 105 LRYRRAF

>BCRL1\_HUMAN|Q5H9F3 : USER001

1376 - 1382 HRLRNRN

1630 - 1636 KRLKLSS

>BCR\_HUMAN|P11274 : USER001

152 - 158 AALRSNF

834 - 840 FRVHSRN

>BEST1\_HUMAN|O76090 : USER001

27 - 33 SIYKLLY

44 - 50 YIIRFIY

48 - 54 FIYRLAL

138 - 144 LILRSVS

445 - 451 WKLKAVD

>BEST2\_HUMAN|Q8NFU1 : USER001

27 - 33 SIYKLLW

48 - 54 AAYRFVL

138 - 144 LILRSVS

205 - 211 SALKLLL

>BEST3\_HUMAN|Q8N1M1 : USER001

27 - 33 SIYKLLY

138 - 144 LIFRSVS

>BEST4\_HUMAN|Q8NFU0 : USER001

27 - 33 SIYKLLY

>BFAR\_HUMAN|Q9NZS9 : USER001

273 - 279 YALKSSP

>BFSP1\_HUMAN|Q12934 : USER001

219 - 225 AALRSQL

>BGAL\_HUMAN|P16278 : USER001

205 - 211 KRFRHHL

>BHLH5\_HUMAN|Q8NFI8 : USER001

187 - 193 AHLHGGA

>BHMT1\_HUMAN|Q93088 : USER001

238 - 244 ARLKAHL

305 - 311 YHIRAIA

>BHMT2\_HUMAN|Q9H2M3 : USER001

296 - 302 YHIRAIA

>BI2L1\_HUMAN|Q9UHR4 : USER001

141 - 147 KKIRRKS

>BICD1\_HUMAN|Q96G01 : USER001

675 - 681 LKLKSL

>BICD2\_HUMAN|Q8TD16 : USER001

274 - 280 SHLHVSL

677 - 683 LKLKSL

>BIEA\_HUMAN|P53004 : USER001

231 - 237 FHFKSGS

>BIG3\_HUMAN|Q5TH69 : USER001

15 - 21 SKYKAIK

>BIM\_HUMAN|O43521 : USER001

189 - 195 YIVRLVW  
>BIRC1\_HUMAN|Q13075 : USER001  
147 - 153 SRLRGGK  
695 - 701 LALKGFF  
773 - 779 YHLKQIN  
>BIRC6\_HUMAN|Q9NR09 : USER001  
3056 - 3062 FILRVLD  
>BLM\_HUMAN|P54132 : USER001  
916 - 922 LAYHAGL  
>BLNK\_HUMAN|Q8WV28 : USER001  
37 - 43 KKLKVK  
39 - 45 LKVKAPP  
>BMAL1\_HUMAN|O00327 : USER001  
150 - 156 LILRAAD  
507 - 513 HRIRGSS  
>BMAL2\_HUMAN|Q9NYQ5 : USER001  
435 - 441 YKFRAKD  
>BMI1\_HUMAN|P35226 : USER001  
223 - 229 LKYRVRP  
>BMP10\_HUMAN|O95393 : USER001  
312 - 318 ARIRRNA  
>BMP1\_HUMAN|P13497 : USER001  
659 - 665 SKLHGKF  
>BMP2K\_HUMAN|Q9NSY1 : USER001  
314 - 320 FAFKFAK  
>BMP3\_HUMAN|P12645 : USER001  
275 - 281 SHIRAAL  
>BMP4\_HUMAN|P12644 : USER001  
136 - 142 SAFRFLF  
>BMPR2\_HUMAN|Q13873 : USER001  
399 - 405 SALKQVD  
471 - 477 LAVRSLK  
561 - 567 SIVKNIS  
>BMR1A\_HUMAN|P36894 : USER001  
383 - 389 LAVKFNS  
>BMR1B\_HUMAN|O00238 : USER001  
353 - 359 LAVKFIS  
>BMS1\_HUMAN|Q14692 : USER001  
200 - 206 KRLKHRF  
289 - 295 AHLKNKS  
934 - 940 KILKSRD  
>BNC2\_HUMAN|Q6ZN30 : USER001  
850 - 856 LHYRNVH

>BNI3L\_HUMAN|O60238 : USER001  
156 - 162 FHFHPK

>BOC\_HUMAN|Q9BWW1 : USER001  
677 - 683 YKFRVRA  
679 - 685 FRVRALN

>BOP1\_HUMAN|Q14137 : USER001  
664 - 670 KALRAVA

>BORG2\_HUMAN|Q9UKI2 : USER001  
18 - 24 KKFRLRD

>BPA1\_HUMAN|Q9UGD7 : USER001  
513 - 519 SKIKRLY  
2028 - 2034 KIKRNY

>BPAEA\_HUMAN|O94833 : USER001  
3058 - 3064 KILKQLS  
4533 - 4539 LRFHGVL

>BPAEB\_HUMAN|Q8WXX8 : USER001  
1431 - 1437 SILRAAH

>BPHL\_HUMAN|Q86WA6 : USER001  
11 - 17 LRLRLLL  
126 - 132 KALKFKK  
274 - 280 LHLRFAD

>BPIL1\_HUMAN|Q8N4F0 : USER001  
79 - 85 LHLKFIA  
163 - 169 KHIKAVL  
316 - 322 LKVRLGA

>BPL1\_HUMAN|P50747 : USER001  
99 - 105 YHLHLSS

>BR44L\_HUMAN|Q9Y5U8 : USER001  
69 - 75 FAYKVQP

>BRAP\_HUMAN|Q7Z569 : USER001  
58 - 64 AIIHQHL

>BRCA2\_HUMAN|P51587 : USER001  
1236 - 1242 KAVKLFS  
2074 - 2080 HKVKGVL  
2726 - 2732 YAVKAQL  
3182 - 3188 HILHAND

>BRD1\_HUMAN|O95696 : USER001  
651 - 657 AAVRLRD

>BRD4\_HUMAN|O60885 : USER001  
1239 - 1245 KALKAQA

>BRD7\_HUMAN|Q9NPI1 : USER001  
285 - 291 HAFKSPS

>BRD9\_HUMAN|Q9H8M2 : USER001

112 - 118 KILHAGF  
>BRDT\_HUMAN|Q58F21 : USER001  
223 - 229 SAVKASS  
431 - 437 KAVHQQL  
>BRE1A\_HUMAN|Q9NUR4 : USER001  
495 - 501 LRYKRKL  
887 - 893 SRLRRKL  
>BRE1B\_HUMAN|O75150 : USER001  
913 - 919 SRLRRKL  
>BRI3B\_HUMAN|Q8WY22 : USER001  
159 - 165 WIVRVVL  
>BRP16\_HUMAN|Q9BTY7 : USER001  
40 - 46 AAVRHVL  
>BRPF3\_HUMAN|Q9ULD4 : USER001  
678 - 684 AAVRLRD  
1191 - 1197 SRVRGPH  
>BRS3\_HUMAN|P32247 : USER001  
339 - 345 KHFKAQL  
>BRWD2\_HUMAN|Q9BZH6 : USER001  
314 - 320 LRVRRSY  
577 - 583 SHLKQYL  
853 - 859 LALKAFL  
1096 - 1102 AKVRLNP  
>BRWD3\_HUMAN|Q6RI45 : USER001  
1450 - 1456 KRLRSSS  
>BSCL2\_HUMAN|Q96G97 : USER001  
214 - 220 LRIHAHF  
>BSN\_HUMAN|Q9UPA5 : USER001  
1354 - 1360 LKLHSSP  
3713 - 3719 SAYHHAS  
>BT2A2\_HUMAN|Q8WVV5 : USER001  
5 - 11 AALHFSL  
>BTAF1\_HUMAN|O14981 : USER001  
68 - 74 AIVKNVP  
1283 - 1289 YKLHGIL  
1617 - 1623 SALKQLL  
>BTBD8\_HUMAN|Q5XKL5 : USER001  
341 - 347 WIVKHFA  
>BTBD9\_HUMAN|Q96Q07 : USER001  
586 - 592 HALRAPS  
>BTBDG\_HUMAN|Q32M84 : USER001  
404 - 410 FKI KGLK  
>BUB1\_HUMAN|O43683 : USER001

746 - 752 LIFKLLS

>BUD31\_HUMAN|P41223 : USER001

50 - 56 FRIHHQK

>BYST\_HUMAN|Q13895 : USER001

193 - 199 SKYRSGK

>BZW1\_HUMAN|Q7L1Q6 : USER001

185 - 191 FAVKLFK

319 - 325 KHLKQYS

>BZW2\_HUMAN|Q9Y6E2 : USER001

186 - 192 FAVKLFK

320 - 326 KHLKQYA

>C102A\_HUMAN|Q96A19 : USER001

422 - 428 KHVHGKL

>C102B\_HUMAN|Q68D86 : USER001

241 - 247 LRLKAIN

>C144A\_HUMAN|A2RUR9 : USER001

649 - 655 LKLKNNH

>C144B\_HUMAN|Q3MJ40 : USER001

649 - 655 LKLKNNH

>C163B\_HUMAN|Q9NR16 : USER001

1034 - 1040 KRLRLVD

>C1QA\_HUMAN|P02745 : USER001

118 - 124 SAIRNP

>C1QT2\_HUMAN|Q9BXJ5 : USER001

239 - 245 LALKQGD

>C1QT4\_HUMAN|Q9BXJ3 : USER001

134 - 140 LRLHGAP

276 - 282 LALRRGD

>C1RL\_HUMAN|Q9NZP8 : USER001

77 - 83 FAVRLVF

>C1R\_HUMAN|P00736 : USER001

54 - 60 YRVKLVF

>C2CD3\_HUMAN|Q4AC94 : USER001

1179 - 1185 LRYRRSP

1437 - 1443 LRYKFYD

1552 - 1558 LRVHVVL

>C2D1A\_HUMAN|Q6P1N0 : USER001

660 - 666 FIVKGIN

>C2D2A\_HUMAN|Q9P2K1 : USER001

31 - 37 SKVRRQP

164 - 170 SRVKFHD

909 - 915 KRFLLH

>C2TA\_HUMAN|P33076 : USER001

486 - 492 HILKRPD  
>C4BPB\_HUMAN|P20851 : USER001  
111 - 117 YILKGSN  
>C56D1\_HUMAN|Q8N8Q1 : USER001  
88 - 94 ARIRLHW  
160 - 166 ARLKLYH  
>C56D2\_HUMAN|O14569 : USER001  
153 - 159 AKLKLYH  
>C5ARL\_HUMAN|Q9P296 : USER001  
170 - 176 AIYRRLH  
>C5AR\_HUMAN|P21730 : USER001  
203 - 209 AIVRLVL  
>C8AP2\_HUMAN|Q9UKL3 : USER001  
303 - 309 SKFKSNS  
1105 - 1111 SKLKQVK  
1648 - 1654 FKLHQVW  
>CA014\_HUMAN|Q9BZQ2 : USER001  
430 - 436 LRVHGP  
>CA031\_HUMAN|Q5JTJ3 : USER001  
80 - 86 KCLRSSF  
>CA063\_HUMAN|Q9BUV0 : USER001  
109 - 115 SRYRSRS  
>CA065\_HUMAN|Q8N715 : USER001  
544 - 550 HILKLKA  
>CA069\_HUMAN|Q5T440 : USER001  
21 - 27 WRLRAAP  
59 - 65 LRVRGPD  
>CA074\_HUMAN|Q96LT6 : USER001  
160 - 166 SRLHSSD  
>CA077\_HUMAN|Q9H034 : USER001  
69 - 75 LKLKQSL  
>CA078\_HUMAN|Q9NVM1 : USER001  
19 - 25 AHIRANP  
>CA085\_HUMAN|Q8WWB7 : USER001  
190 - 196 LAFRVQA  
>CA089\_HUMAN|Q9BU20 : USER001  
202 - 208 LRVKSVP  
>CA090\_HUMAN|Q9BTA0 : USER001  
102 - 108 LRLRAQL  
>CA096\_HUMAN|Q6IQ19 : USER001  
216 - 222 SALRAKN  
>CA101\_HUMAN|Q5SY80 : USER001  
106 - 112 YRVRHFF

>CA103\_HUMAN|Q5T3J3 : USER001  
560 - 566 KALHLKS

>CA106\_HUMAN|Q3KP66 : USER001  
612 - 618 FRVRSPL

>CA111\_HUMAN|Q5T0L3 : USER001  
200 - 206 SHIKRGF

>CA112\_HUMAN|Q9NSG2 : USER001  
185 - 191 FIIKQSL  
195 - 201 SIIKSQL

>CA115\_HUMAN|Q9H7X2 : USER001  
5 - 11 ARLRSKA  
92 - 98 KRYRRKL

>CA124\_HUMAN|Q9H040 : USER001  
298 - 304 SKIKVKF  
341 - 347 KAFRGVN

>CA127\_HUMAN|Q8N9H9 : USER001  
128 - 134 LRVHQSN

>CA129\_HUMAN|Q5TGP6 : USER001  
185 - 191 SIVKQAS  
368 - 374 LILKGKP

>CA135\_HUMAN|Q9H7T9 : USER001  
18 - 24 AALKRRK

>CA147\_HUMAN|Q96MC9 : USER001  
67 - 73 LRIRAGL

>CA167\_HUMAN|Q5SNV9 : USER001  
88 - 94 LILHVQK  
133 - 139 SALRRPL  
425 - 431 AAVHQLL  
1202 - 1208 LRVRLGL  
1322 - 1328 LALKGHD

>CA168\_HUMAN|Q5VWT5 : USER001  
204 - 210 KILHNVS

>CA174\_HUMAN|Q8IYL3 : USER001  
14 - 20 ARLKARS

>CA175\_HUMAN|Q68CQ1 : USER001  
1067 - 1073 AKVKALL

>CA176\_HUMAN|Q9H790 : USER001  
143 - 149 WAIKFLN

>CA181\_HUMAN|Q9NWK9 : USER001  
346 - 352 WHVKLQF

>CA184\_HUMAN|Q5VVY1 : USER001  
8 - 14 FAFRSRW

>CA185\_HUMAN|Q5T7R7 : USER001



47 - 53 SKFKAID

63 - 69 AKIKSHS

95 - 101 AHIKAIK

>CA189\_HUMAN|Q5VU69 : USER001

72 - 78 AALHQLF

>CA2D2\_HUMAN|Q9NY47 : USER001

989 - 995 LIYHSWF

>CAB45\_HUMAN|Q9BRK5 : USER001

162 - 168 YKVKFLA

>CABIN\_HUMAN|Q9Y6J0 : USER001

805 - 811 SILKVSS

1151 - 1157 YALHSFA

>CABL1\_HUMAN|Q8TDN4 : USER001

320 - 326 KKIHFJK

514 - 520 SKIRSLK

548 - 554 LALKGKL

>CABL2\_HUMAN|Q9BTV7 : USER001

360 - 366 SKIRSLK

>CABP2\_HUMAN|Q9NPB3 : USER001

179 - 185 AALKALL

>CAC1C\_HUMAN|Q99025 : USER001

1212 - 1218 YALKARP

>CAC1D\_HUMAN|Q01668 : USER001

1178 - 1184 YALKARP

>CAC1F\_HUMAN|O60840 : USER001

1152 - 1158 YALKAQP

>CAC1G\_HUMAN|Q9Y5T3 : USER001

503 - 509 HHYHLGN

>CAC1H\_HUMAN|O95180 : USER001

527 - 533 HHYHFSH

1664 - 1670 AALKLVA

>CAC1I\_HUMAN|Q9ULU9 : USER001

1038 - 1044 HHHHHGP

1827 - 1833 SIFHHYS

>CAC1S\_HUMAN|Q13698 : USER001

1091 - 1097 YALKARP

>CACB4\_HUMAN|O00305 : USER001

31 - 37 SRLKRSK

45 - 51 FILRQGS

>CACO1\_HUMAN|Q9P1Z2 : USER001

425 - 431 KILKLSA

>CAD10\_HUMAN|Q9Y6N8 : USER001

47 - 53 KILHRQK

>CAD11\_HUMAN|P55287 : USER001  
145 - 151 FIVKVQD

>CAD12\_HUMAN|P55289 : USER001  
112 - 118 HAIRSLD  
146 - 152 FIIKVQD

>CAD15\_HUMAN|P55291 : USER001  
41 - 47 SRVRRAW  
118 - 124 FRLRAFA  
323 - 329 SIVKALD

>CAD16\_HUMAN|O75309 : USER001  
129 - 135 AIYRARL

>CAD18\_HUMAN|Q13634 : USER001  
145 - 151 FIIKVQD

>CAD19\_HUMAN|Q9H159 : USER001  
39 - 45 LRVKRGW  
334 - 340 AKVKNHH

>CAD22\_HUMAN|Q9UJ99 : USER001  
154 - 160 FIIKVQD  
686 - 692 SALRSLY

>CAD23\_HUMAN|Q9H251 : USER001  
744 - 750 LIVRAVD  
1150 - 1156 FRIHVSN  
2801 - 2807 FIVKASS  
3266 - 3272 LRFRHKP

>CAD24\_HUMAN|Q86UP0 : USER001  
136 - 142 FIIKVQD

>CADH2\_HUMAN|P19022 : USER001  
88 - 94 YAVRSFP  
231 - 237 ARFHLRA  
233 - 239 FHLRAHA

>CADH4\_HUMAN|P55283 : USER001  
243 - 249 YHLRAHA

>CADH6\_HUMAN|P55285 : USER001  
124 - 130 YILRAQA

>CADH7\_HUMAN|Q9ULB5 : USER001  
282 - 288 ARIKAAD  
669 - 675 AALRNLN

>CADH8\_HUMAN|P55286 : USER001  
119 - 125 HAIKRLD  
153 - 159 FIIKVQD

>CADH9\_HUMAN|Q9ULB4 : USER001  
124 - 130 YILRAKA

>CADM1\_HUMAN|Q9BY67 : USER001

24 - 30 LRLRLLL

>CAF1A\_HUMAN|Q13111 : USER001

639 - 645 HKVRQKL

>CAGE1\_HUMAN|Q8TC20 : USER001

411 - 417 KKIKANY

>CAH12\_HUMAN|O43570 : USER001

219 - 225 YRYRGS�

>CAH13\_HUMAN|Q8N1Q1 : USER001

89 - 95 YRLRQVH

225 - 231 AKFRSLL

>CAH3\_HUMAN|P07451 : USER001

88 - 94 YRLRQFH

223 - 229 AKLRSLL

>CAH5A\_HUMAN|P35218 : USER001

124 - 130 YRLKQFH

>CAH5B\_HUMAN|Q9Y2D0 : USER001

124 - 130 YRLKQFH

>CAH6\_HUMAN|P23280 : USER001

144 - 150 SKYKSYD

>CAH7\_HUMAN|P43166 : USER001

90 - 96 YRLKQFH

>CAHD1\_HUMAN|Q5VU97 : USER001

642 - 648 LHFQQLA

1246 - 1252 HHYRSHH

>CALCR\_HUMAN|P30988 : USER001

236 - 242 KILHFFH

>CALL6\_HUMAN|Q8TD86 : USER001

114 - 120 AAFRVFD

>CALR3\_HUMAN|Q96L12 : USER001

142 - 148 KKVHVIL

148 - 154 LHFKNKY

>CALRL\_HUMAN|Q16602 : USER001

393 - 399 AILRRNW

>CALR\_HUMAN|P27797 : USER001

142 - 148 KKVHVIF

>CALX\_HUMAN|P27824 : USER001

198 - 204 YKLHFIF

202 - 208 FIFRHKN

>CAMKV\_HUMAN|Q9H0Q5 : USER001

140 - 146 KIVHRNL

>CAMP1\_HUMAN|Q5T5Y3 : USER001

475 - 481 FALHHAA

>CAN10\_HUMAN|Q9HC93 : USER001

156 - 162 AKVHGSY

385 - 391 SRLHAAD

494 - 500 SAIRAVA

>CAN12\_HUMAN|Q6ZSI9 : USER001

186 - 192 AKLHGSY

226 - 232 SALRHAL

279 - 285 LRLRNPW

>CAN13\_HUMAN|Q6MZZ7 : USER001

12 - 18 SIIKFKD

>CAN15\_HUMAN|O75808 : USER001

630 - 636 AKLHGSY

733 - 739 LRLRNPW

>CAN2\_HUMAN|P17655 : USER001

674 - 680 KIFKQLD

>CAN3\_HUMAN|P20807 : USER001

210 - 216 AKLHGSY

569 - 575 FILRVFS

729 - 735 KIFKHYD

>CAN5\_HUMAN|O15484 : USER001

357 - 363 ARLHGAW

>CAN6\_HUMAN|Q9Y6Q1 : USER001

121 - 127 FHFREFWH

434 - 440 FRLHHLY

621 - 627 AKVKQGH

>CAN9\_HUMAN|O14815 : USER001

222 - 228 KALKRGS

>CAND1\_HUMAN|Q9P0H7 : USER001

347 - 353 WKVRRAA

574 - 580 KRLKAAD

>CAND2\_HUMAN|O75155 : USER001

256 - 262 WKVRRAA

1043 - 1049 AKVKAGS

>CAP1\_HUMAN|Q01518 : USER001

269 - 275 HALKHVS

>CAPON\_HUMAN|O75052 : USER001

333 - 339 ARVHQLL

>CAPR2\_HUMAN|Q9HAL4 : USER001

1102 - 1108 LRLHRGA

>CAPS1\_HUMAN|Q9ULU8 : USER001

217 - 223 KRVRSLP

>CAPS2\_HUMAN|Q86UW7 : USER001

183 - 189 KRVRSLP

>CAR11\_HUMAN|Q9BXL7 : USER001

433 - 439 SKLRRLS

572 - 578 SIVRRYK

749 - 755 LHYKVNH

>CAR14\_HUMAN|Q9BXL6 : USER001

92 - 98 LKFHNP

>CARM1\_HUMAN|Q86X55 : USER001

324 - 330 SALRGAA

>CART\_HUMAN|Q16568 : USER001

4 - 10 SRVRLLP

>CASD1\_HUMAN|Q96PB1 : USER001

94 - 100 SRIRQLF

331 - 337 YIIHRNA

>CASL\_HUMAN|Q14511 : USER001

564 - 570 LHLKNGP

>CASP2\_HUMAN|P42575 : USER001

190 - 196 LAYRLQS

>CASP4\_HUMAN|P49662 : USER001

186 - 192 SALRAFA

>CASP6\_HUMAN|P55212 : USER001

284 - 290 KKLHFFP

>CASPA\_HUMAN|Q92851 : USER001

84 - 90 YIIRQKK

>CASR\_HUMAN|P41180 : USER001

462 - 468 KHLRHLN

790 - 796 FAFKSRK

879 - 885 HAFKVAA

>CASZ1\_HUMAN|Q86V15 : USER001

1493 - 1499 KRFKASL

>CATB\_HUMAN|P07858 : USER001

311 - 317 KILRGQD

>CATC\_HUMAN|P53634 : USER001

423 - 429 WIVKNSW

>CATE\_HUMAN|P14091 : USER001

34 - 40 KKLRRAS

>CATF\_HUMAN|Q9UBX1 : USER001

447 - 453 WAIKNSW

>CATH\_HUMAN|P09668 : USER001

297 - 303 WIVKNSW

>CATK\_HUMAN|P43235 : USER001

292 - 298 WIKNSW

>CATO\_HUMAN|P43234 : USER001

145 - 151 YAIKGKP

285 - 291 WIVRNSW

>CATW\_HUMAN|P56202 : USER001  
327 - 333 WILKNSW  
343 - 349 FRLHRGS

>CATZ\_HUMAN|Q9UBR2 : USER001  
257 - 263 WIVRNSW

>CAV2\_HUMAN|P51636 : USER001  
47 - 53 SHLKLGF

>CAZA1\_HUMAN|P52907 : USER001  
256 - 262 KALRRQL

>CAZA2\_HUMAN|P47755 : USER001  
20 - 26 FIIHAPP  
256 - 262 KALRRQL

>CB016\_HUMAN|Q68DN1 : USER001  
75 - 81 KHVKLSS  
167 - 173 LAYKID  
794 - 800 LALHNQS

>CB019\_HUMAN|Q8NEE0 : USER001  
5 - 11 SHFKVAF

>CB024\_HUMAN|Q9BV87 : USER001  
33 - 39 ARIRRL

>CB029\_HUMAN|Q9UKZ1 : USER001  
332 - 338 KAFKSPL

>CB039\_HUMAN|Q96MC2 : USER001  
79 - 85 SRLKLAK

>CB5D2\_HUMAN|Q8WUJ1 : USER001  
44 - 50 SRYRGGP

>CBLB\_HUMAN|Q13191 : USER001  
245 - 251 SILRNWN

>CBLC\_HUMAN|Q9ULV8 : USER001  
115 - 121 SRLRRQL

>CBLN3\_HUMAN|Q6UW01 : USER001  
75 - 81 AAVRSHH  
126 - 132 FRFHVVK  
181 - 187 LRLRRGN

>CBL\_HUMAN|P22681 : USER001  
75 - 81 LALKNSP

>CBPA1\_HUMAN|P15085 : USER001  
105 - 111 FAFRSRA  
352 - 358 SIIKAIY

>CBPA2\_HUMAN|P48052 : USER001  
63 - 69 AHVRVPF

>CBPA3\_HUMAN|P15088 : USER001  
403 - 409 LAVKFIA

>CBPA6\_HUMAN|Q8N4T0 : USER001  
315 - 321 KHIRAYL  
350 - 356 AAYKAVN  
>CBPC1\_HUMAN|Q9UPW5 : USER001  
2 - 8 SKLKVIP  
1004 - 1010 AAVKRLP  
>CBPC4\_HUMAN|Q96MI9 : USER001  
77 - 83 WALRVFA  
1041 - 1047 FAYHFFA  
>CBPC5\_HUMAN|Q8NDL9 : USER001  
336 - 342 HHVHSRL  
>CBPD\_HUMAN|O75976 : USER001  
931 - 937 YRYHSYK  
1335 - 1341 HRLRQHH  
>CBR1\_HUMAN|P16152 : USER001  
205 - 211 SRIHARK  
>CBX2\_HUMAN|Q14781 : USER001  
212 - 218 AALKAHA  
274 - 280 LALKAQA  
>CBX4\_HUMAN|O00257 : USER001  
249 - 255 KIVKNKN  
>CBX6\_HUMAN|O95503 : USER001  
114 - 120 AAVHRLK  
>CC017\_HUMAN|Q6NW34 : USER001  
384 - 390 KKLKAQA  
>CC019\_HUMAN|Q6PII3 : USER001  
297 - 303 AKLRQKK  
>CC020\_HUMAN|Q8ND61 : USER001  
371 - 377 KAFKFHY  
>CC021\_HUMAN|Q8NBI6 : USER001  
322 - 328 YHFRGHL  
>CC023\_HUMAN|Q8N3R3 : USER001  
203 - 209 KKLKNSL  
>CC025\_HUMAN|Q6NXP0 : USER001  
489 - 495 LKVKRSS  
>CC026\_HUMAN|Q9BQ75 : USER001  
190 - 196 KHIKVQA  
>CC038\_HUMAN|Q5JPI3 : USER001  
266 - 272 WKIKFIN  
>CC041\_HUMAN|Q9UFP1 : USER001  
510 - 516 SAVKVLA  
>CC042\_HUMAN|Q9BXV0 : USER001  
54 - 60 AHVRHLL

>CC043\_HUMAN|Q147U7 : USER001  
116 - 122 KRVRVWV  
>CC044\_HUMAN|Q7L0X2 : USER001  
2 - 8 AHLRSPS  
428 - 434 KHYKHGS  
455 - 461 AIIRVPN  
>CC045\_HUMAN|Q8N112 : USER001  
142 - 148 LKLRLAS  
>CC049\_HUMAN|Q96BT1 : USER001  
96 - 102 YKYRSKP  
>CC055\_HUMAN|A1A4F0 : USER001  
92 - 98 YRLKNQK  
>CC060\_HUMAN|Q9BU61 : USER001  
5 - 11 LALRSLY  
>CC110\_HUMAN|Q8TBZ0 : USER001  
330 - 336 SKFHVHF  
688 - 694 SIYKNSL  
>CC112\_HUMAN|Q8NEF3 : USER001  
127 - 133 KAFRAIS  
312 - 318 FKLKLLL  
>CC113\_HUMAN|Q9H0I3 : USER001  
189 - 195 LRLKNVS  
>CC114\_HUMAN|Q96M63 : USER001  
172 - 178 LKLKNND  
664 - 670 SALHHRL  
>CC116\_HUMAN|Q8IYX3 : USER001  
485 - 491 SRIHLSS  
>CC122\_HUMAN|Q5T0U0 : USER001  
130 - 136 AKIKAHK  
232 - 238 AILKRLH  
>CC123\_HUMAN|Q96ST8 : USER001  
15 - 21 HIIHGLL  
660 - 666 AALKLGD  
>CC124\_HUMAN|Q96CT7 : USER001  
79 - 85 SKLKGGK  
>CC128\_HUMAN|Q6ZMI0 : USER001  
18 - 24 SKLRAQN  
375 - 381 SALRARN  
429 - 435 AALHGFH  
>CC131\_HUMAN|O60293 : USER001  
144 - 150 FRFRGRP  
>CC134\_HUMAN|Q9H6E4 : USER001  
48 - 54 LALKNLA



>CC135\_HUMAN|Q8IY82 : USER001  
511 - 517 LRVHSYK

>CC138\_HUMAN|Q96M89 : USER001  
266 - 272 KRLRSSF  
608 - 614 SKIKSNK

>CC141\_HUMAN|Q6ZP82 : USER001  
474 - 480 KILHQF

>CC146\_HUMAN|Q8IYE0 : USER001  
65 - 71 AALKAKY

>CC14A\_HUMAN|Q9UNH5 : USER001  
69 - 75 KKLKSYS  
340 - 346 SKLKGRP

>CC14C\_HUMAN|A4D256 : USER001  
371 - 377 AIVKRFL

>CC28B\_HUMAN|Q9BUN5 : USER001  
130 - 136 ARLHFSL

>CC45L\_HUMAN|O75419 : USER001  
298 - 304 ARFKLWS

>CC50A\_HUMAN|Q9NV96 : USER001  
348 - 354 HKYRNSS

>CC50B\_HUMAN|Q3MIR4 : USER001  
202 - 208 YHVKFRN  
267 - 273 ARIRQGN

>CC64A\_HUMAN|Q6ZP65 : USER001  
361 - 367 SHLRGND

>CC85A\_HUMAN|Q96PX6 : USER001  
272 - 278 KALKGPS

>CC88B\_HUMAN|A6NC98 : USER001  
833 - 839 SRLRAQS

>CCBP2\_HUMAN|O00590 : USER001  
317 - 323 HRFRQYL

>CCD15\_HUMAN|Q0P6D6 : USER001  
715 - 721 KHIKLP

>CCD16\_HUMAN|Q96NB3 : USER001  
365 - 371 WRVKGAL

>CCD18\_HUMAN|Q5T9S5 : USER001  
367 - 373 LKVRVAA  
771 - 777 LKIKNHS

>CCD21\_HUMAN|Q6P2H3 : USER001  
203 - 209 HRVRFHN

>CCD22\_HUMAN|O60826 : USER001  
383 - 389 LRLKSRA

>CCD32\_HUMAN|Q9BV29 : USER001

83 - 89 KKLRRIK

>CCD35\_HUMAN|Q8TEE6 : USER001

315 - 321 LKYHLGS

>CCD36\_HUMAN|Q8IYA8 : USER001

53 - 59 AHLRHSK

>CCD37\_HUMAN|Q494V2 : USER001

254 - 260 KHYKVYK

588 - 594 HRIKQQS

>CCD39\_HUMAN|Q9UFE4 : USER001

141 - 147 SHFKNVK

>CCD40\_HUMAN|Q4G0X9 : USER001

202 - 208 HRFRLSH

293 - 299 AALKNYL

397 - 403 LALHLFY

652 - 658 LILRLQK

>CCD44\_HUMAN|Q9BSH4 : USER001

64 - 70 SKVRHIK

>CCD46\_HUMAN|Q8N8E3 : USER001

165 - 171 LRVRSHS

543 - 549 SHLKHIY

>CCD49\_HUMAN|Q9NXE8 : USER001

299 - 305 SKLHNSK

>CCD52\_HUMAN|Q8N0Z3 : USER001

71 - 77 KALKRKW

>CCD54\_HUMAN|Q8NEL0 : USER001

7 - 13 KRVKAAA

22 - 28 SKVRQSL

>CCD57\_HUMAN|Q2TAC2 : USER001

100 - 106 AKLRQAL

205 - 211 LKVKLLH

>CCD63\_HUMAN|Q8NA47 : USER001

260 - 266 SKLKSFL

306 - 312 AHLRLK

>CCD65\_HUMAN|Q8IXS2 : USER001

115 - 121 HALRSHL

119 - 125 SHLHNVD

>CCD66\_HUMAN|A2RUB6 : USER001

911 - 917 AILKGLS

>CCD68\_HUMAN|Q9H2F9 : USER001

93 - 99 KKIKGKD

112 - 118 LKIKLQA

125 - 131 AALRNVA

>CCD71\_HUMAN|Q8IV32 : USER001

11 - 17 KAVHSWS  
347 - 353 KAVRAKA  
424 - 430 LKFRAIK  
>CCD73\_HUMAN|Q6ZRK6 : USER001  
775 - 781 SHLHLNN  
>CCD76\_HUMAN|Q9NUP7 : USER001  
162 - 168 KHLKQQA  
>CCD80\_HUMAN|Q76M96 : USER001  
721 - 727 LRVKQYY  
>CCD82\_HUMAN|Q8N4S0 : USER001  
476 - 482 HKLKHFK  
479 - 485 KHFKFKL  
>CCD83\_HUMAN|Q8IWF9 : USER001  
70 - 76 WHIRHLL  
>CCD86\_HUMAN|Q9H6F5 : USER001  
326 - 332 AKLKRAK  
>CCD87\_HUMAN|Q9NVE4 : USER001  
79 - 85 ARLRLIK  
444 - 450 AAVRVSD  
709 - 715 ARLRQLP  
770 - 776 SHLHRKL  
>CCD93\_HUMAN|Q567U6 : USER001  
42 - 48 ARIKGLS  
624 - 630 SKVKAKA  
>CCD94\_HUMAN|Q9BW85 : USER001  
49 - 55 YIYKGKK  
>CCD95\_HUMAN|Q8NBZ0 : USER001  
13 - 19 KKYRNLK  
>CCD96\_HUMAN|Q2M329 : USER001  
26 - 32 SKIKASS  
>CCD98\_HUMAN|Q6UWZ7 : USER001  
100 - 106 YKFRRHS  
>CCDC3\_HUMAN|Q9BQI4 : USER001  
222 - 228 KKVKRS�  
>CCDC4\_HUMAN|Q6ZU67 : USER001  
12 - 18 KIYKQRS  
>CCDC7\_HUMAN|Q96M83 : USER001  
86 - 92 KIIKHLK  
>CCG3\_HUMAN|O60359 : USER001  
229 - 235 YRFRRRS  
>CCG8\_HUMAN|Q8WXS5 : USER001  
259 - 265 AILRLPS  
268 - 274 FRYRRRS

>CCKAR\_HUMAN|P32238 : USER001  
157 - 163 HALKVIA  
375 - 381 KRFR LGF

>CCL19\_HUMAN|Q99731 : USER001  
41 - 47 YIVRNFH

>CCL1\_HUMAN|P22362 : USER001  
64 - 70 FKLKRGK

>CCL20\_HUMAN|P78556 : USER001  
84 - 90 YIVRLLS

>CCNA2\_HUMAN|P20248 : USER001  
358 - 364 AAFHLAL  
416 - 422 SKYHGVS

>CCNB1\_HUMAN|P14635 : USER001  
288 - 294 KILRALN

>CCNB3\_HUMAN|Q8WWL7 : USER001  
489 - 495 LILKRKH  
1184 - 1190 LAVKLVD

>CCND3\_HUMAN|P30281 : USER001  
163 - 169 FILHRLS

>CCNE1\_HUMAN|P24864 : USER001  
347 - 353 KHFRGVA

>CCNE2\_HUMAN|O96020 : USER001  
90 - 96 YRFKNLF

>CCNF\_HUMAN|P41002 : USER001  
53 - 59 LAVRAVH

>CCNH\_HUMAN|P51946 : USER001  
158 - 164 LIVHNPY

>CCNI\_HUMAN|Q14094 : USER001  
152 - 158 HIFHAIA

>CCNT2\_HUMAN|O60583 : USER001  
619 - 625 KRLHVND

>CCNY\_HUMAN|Q96P45 : USER001  
129 - 135 YHIKNRD

>CCPG1\_HUMAN|Q9ULG6 : USER001  
728 - 734 YIYRHFF

>CCR1\_HUMAN|P32246 : USER001  
134 - 140 AIVHAVF  
236 - 242 KAVRLIF

>CCR2\_HUMAN|P41597 : USER001  
141 - 147 AIVHAVF

>CCR3\_HUMAN|P51677 : USER001  
134 - 140 AIVHAVF  
236 - 242 KAIRLIF

>CCR4\_HUMAN|P51679 : USER001  
138 - 144 AIVHAVF

>CCR8\_HUMAN|P51685 : USER001  
220 - 226 KILHQLK  
235 - 241 KAIRLVL

>CCYL1\_HUMAN|Q8N7R7 : USER001  
151 - 157 YHIKNRD

>CD008\_HUMAN|P78312 : USER001  
13 - 19 AKVKAPS

>CD015\_HUMAN|Q68CZ6 : USER001  
110 - 116 LKLKNLK  
594 - 600 SKIKAVS

>CD027\_HUMAN|Q9NWX4 : USER001  
163 - 169 AAVKLFL

>CD033\_HUMAN|Q8N1A6 : USER001  
135 - 141 FAIHGSK

>CD037\_HUMAN|Q8N412 : USER001  
136 - 142 LKYKGIH

>CD14\_HUMAN|P08571 : USER001  
147 - 153 LRLRNVS  
297 - 303 AKLRVLD

>CD180\_HUMAN|Q99467 : USER001  
541 - 547 SHLKGIV

>CD22\_HUMAN|Q9UQA6 : USER001  
735 - 741 KKVRRAP

>CD244\_HUMAN|Q9BZW8 : USER001  
85 - 91 FIVKNLS

>CD276\_HUMAN|Q5ZPR3 : USER001  
206 - 212 SILRVVL

>CD2AP\_HUMAN|Q9Y5K6 : USER001  
517 - 523 KILKLPK

>CD2B2\_HUMAN|O95400 : USER001  
39 - 45 SRFKGGKH

>CD2L1\_HUMAN|Q9NZZ5 : USER001  
33 - 39 KRLKNSD

>CD2L2\_HUMAN|Q9UP55 : USER001  
33 - 39 KRLKNSD

>CD2\_HUMAN|P06729 : USER001  
92 - 98 LKIKHLK

>CD36\_HUMAN|Q9BZN4 : USER001  
93 - 99 YRVRFLA

>CD37L\_HUMAN|Q7L3B6 : USER001  
268 - 274 SRVRLYS

>CD47\_HUMAN|Q08722 : USER001  
58 - 64 WKFKGRD  
129 - 135 LKYRVVS

>CD4\_HUMAN|P01730 : USER001  
94 - 100 LIKNLK

>CD5R1\_HUMAN|Q15078 : USER001  
164 - 170 YRLKHL

>CD5R2\_HUMAN|Q13319 : USER001  
52 - 58 SRLKRPS

>CD5\_HUMAN|P06127 : USER001  
407 - 413 KKFRQKK

>CD6\_HUMAN|P30203 : USER001  
424 - 430 LRIKGKY

>CD79A\_HUMAN|P11912 : USER001  
123 - 129 LRVRQPP

>CDAN1\_HUMAN|Q8IWY9 : USER001  
721 - 727 LRLHRSL

>CDC16\_HUMAN|Q13042 : USER001  
8 - 14 KRVRQYL  
58 - 64 HALSRK

>CDC27\_HUMAN|P30260 : USER001  
56 - 62 KAYRLLK

>CDC2\_HUMAN|P06493 : USER001  
251 - 257 SHVKNLD

>CDC6\_HUMAN|Q99741 : USER001  
113 - 119 AKVHQNK

>CDC73\_HUMAN|Q6P1J9 : USER001  
471 - 477 AKIKAFH  
474 - 480 KAFHLKY

>CDC7\_HUMAN|O00311 : USER001  
163 - 169 KALKRIH

>CDCA2\_HUMAN|Q69YH5 : USER001  
151 - 157 SAFHSIK

>CDCA5\_HUMAN|Q96FF9 : USER001  
140 - 146 KKVRRSY

>CDCP2\_HUMAN|Q5VXM1 : USER001  
181 - 187 AHVKLVF

>CDK10\_HUMAN|Q15131 : USER001  
91 - 97 LRLRHPN

>CDK7\_HUMAN|P50613 : USER001  
41 - 47 KKIKLGH

>CDK8\_HUMAN|P49336 : USER001  
5 - 11 FKVKLSS

402 - 408 KKVRVVP

>CDKL2\_HUMAN|Q92772 : USER001

354 - 360 FIKGSK

>CDKL3\_HUMAN|Q8IVW4 : USER001

73 - 79 KKIHLVF

>CDKN3\_HUMAN|Q9C053 : USER001

85 - 91 SKYRVPN

>CDON\_HUMAN|Q4KMG0 : USER001

154 - 160 YKIRGKW

791 - 797 YKFRVIA

>CDR2L\_HUMAN|Q86X02 : USER001

174 - 180 FRLHSS

>CDR2\_HUMAN|Q01850 : USER001

354 - 360 SALKVKY

>CDS1\_HUMAN|Q92903 : USER001

205 - 211 KHYRLQF

>CDS2\_HUMAN|O95674 : USER001

188 - 194 KHYRLQF

>CDT1\_HUMAN|Q9H211 : USER001

135 - 141 ARVRALK

382 - 388 LALRSAA

413 - 419 SALKGVS

>CDYL2\_HUMAN|Q8N8U2 : USER001

64 - 70 KRIKSGK

>CE005\_HUMAN|Q9NYF5 : USER001

679 - 685 LILKRLK

893 - 899 KKIKAKL

>CE025\_HUMAN|Q8NDZ2 : USER001

798 - 804 LIKRIK

>CE029\_HUMAN|Q8N292 : USER001

82 - 88 SAVRGNN

>CE030\_HUMAN|Q96GV9 : USER001

147 - 153 KALHGPL

>CE033\_HUMAN|Q4G0N4 : USER001

101 - 107 LALKGSS

>CE034\_HUMAN|Q96MH7 : USER001

257 - 263 LALHFHN

>CE035\_HUMAN|Q8NE22 : USER001

16 - 22 YKYRFVP

>CE036\_HUMAN|Q8IV33 : USER001

166 - 172 LHLRRFL

>CE152\_HUMAN|O94986 : USER001

449 - 455 FILKLKA

>CE164\_HUMAN|Q9UPV0 : USER001  
634 - 640 LRLHQQK  
816 - 822 HRVHQKS

>CE170\_HUMAN|Q5SW79 : USER001  
366 - 372 KRLKGNK  
1183 - 1189 AIIRSGA

>CE192\_HUMAN|Q8TEP8 : USER001  
164 - 170 SHVRHFL  
649 - 655 AAVHALL  
1191 - 1197 LALRNNS

>CE290\_HUMAN|O15078 : USER001  
1201 - 1207 AKLHQHN  
1505 - 1511 LRLRLPA  
1582 - 1588 HILHHRL  
2322 - 2328 KILKHVP

>CE350\_HUMAN|Q5VT06 : USER001  
372 - 378 LALHFAD  
2649 - 2655 AHVHQQS

>CEAM1\_HUMAN|P13688 : USER001  
9 - 15 HRVRVPW

>CEAM4\_HUMAN|O75871 : USER001  
138 - 144 LHVHQNN

>CEBPB\_HUMAN|P17676 : USER001  
205 - 211 YALRAYL

>CECR1\_HUMAN|Q9NZK5 : USER001  
109 - 115 AALHLHD

>CECR6\_HUMAN|Q9BXQ6 : USER001  
263 - 269 HHLHHHH

>CELF1\_HUMAN|Q92879 : USER001  
470 - 476 KRLKVQL

>CELF2\_HUMAN|O95319 : USER001  
492 - 498 KRLKVQL

>CELF3\_HUMAN|Q5SZQ8 : USER001  
60 - 66 SALKAQS  
449 - 455 KRLKVQL

>CELF4\_HUMAN|Q9BZC1 : USER001  
107 - 113 SALKAQS  
470 - 476 KRLKVQL

>CELF5\_HUMAN|Q8N6W0 : USER001  
189 - 195 AAIHALH  
469 - 475 KRLKVQL

>CELF6\_HUMAN|Q96J87 : USER001  
99 - 105 SALKAQS



189 - 195 AAIRGLH  
465 - 471 KRLKVQL  
>CELR1\_HUMAN|Q9NYQ6 : USER001  
321 - 327 LRVKAVD  
600 - 606 LHYRLVD  
1019 - 1025 AKIRAND  
1862 - 1868 LKVRVKD  
2710 - 2716 KHLKGVV  
>CELR2\_HUMAN|Q9HCU4 : USER001  
472 - 478 LRVRAQD  
>CELR3\_HUMAN|Q9NYQ7 : USER001  
313 - 319 ARFRRAA  
618 - 624 LRIRAQD  
1890 - 1896 LKVKQLH  
>CEL\_HUMAN|P19835 : USER001  
288 - 294 LAYKVPL  
>CENA1\_HUMAN|O75689 : USER001  
368 - 374 AHFKHKP  
>CENA2\_HUMAN|Q9NPF8 : USER001  
83 - 89 LRVKAKF  
>CEND1\_HUMAN|Q8WZ64 : USER001  
482 - 488 KKVKSGW  
735 - 741 SKVRSLK  
1173 - 1179 FKLKAGK  
>CEND2\_HUMAN|Q96P48 : USER001  
345 - 351 SKVRSLK  
789 - 795 SALKRFL  
>CEND3\_HUMAN|Q8WWN8 : USER001  
1319 - 1325 SILKAQH  
>CENG1\_HUMAN|Q99490 : USER001  
491 - 497 SRLHGQL  
981 - 987 SRVRSLD  
>CENG2\_HUMAN|Q9UPQ3 : USER001  
659 - 665 SRVRSLD  
>CENG3\_HUMAN|Q96P47 : USER001  
676 - 682 SRVRSLD  
>CENPE\_HUMAN|Q02224 : USER001  
2557 - 2563 SKLKQQN  
>CENPF\_HUMAN|P49454 : USER001  
2199 - 2205 FALRLSS  
>CENPH\_HUMAN|Q9H3R5 : USER001  
196 - 202 KIIRQNL  
>CENPI\_HUMAN|Q92674 : USER001

274 - 280 LAVKQRN  
>CENPL\_HUMAN|Q8N0S6 : USER001  
289 - 295 SHFHRHF  
295 - 301 FKIHLA  
>CENPM\_HUMAN|Q9NSP4 : USER001  
44 - 50 LKVHLAK  
>CENPO\_HUMAN|Q9BU64 : USER001  
148 - 154 LRIHHHS  
>CENPU\_HUMAN|Q71F23 : USER001  
402 - 408 SHLRNIN  
>CEP70\_HUMAN|Q8NHQ1 : USER001  
590 - 596 KKLKVLS  
>CEP72\_HUMAN|Q9P209 : USER001  
147 - 153 SRLHFAS  
528 - 534 SRLKSL  
>CEP78\_HUMAN|Q5JTW2 : USER001  
216 - 222 LRYRRPD  
>CEP97\_HUMAN|Q8IW35 : USER001  
362 - 368 FAVKNNF  
>CER1\_HUMAN|O95813 : USER001  
251 - 257 HILHAGS  
>CERKL\_HUMAN|Q6UZF6 : USER001  
470 - 476 KHLKRYA  
>CERU\_HUMAN|P00450 : USER001  
369 - 375 KHVRHYY  
>CETN1\_HUMAN|Q12798 : USER001  
108 - 114 KAFRLFD  
>CETN2\_HUMAN|P41208 : USER001  
108 - 114 KAFKLF  
>CETN3\_HUMAN|O15182 : USER001  
105 - 111 KAFKLF  
>CETP\_HUMAN|P11597 : USER001  
253 - 259 FIYKNVS  
>CF047\_HUMAN|O95873 : USER001  
227 - 233 AALHGLH  
>CF065\_HUMAN|Q5SZJ8 : USER001  
72 - 78 AKIKSLK  
89 - 95 SRLRQSL  
>CF072\_HUMAN|Q9NU53 : USER001  
9 - 15 LALRLLL  
>CF094\_HUMAN|Q5TFG8 : USER001  
209 - 215 AKLRQGF  
>CF097\_HUMAN|Q8IYT3 : USER001

193 - 199 LILKLRD

>CF103\_HUMAN|Q8N7X0 : USER001

243 - 249 AIIKLAN

>CF118\_HUMAN|Q5T5N4 : USER001

449 - 455 KIKIGPL

>CF120\_HUMAN|Q7Z4R8 : USER001

181 - 187 SILKLV

>CF125\_HUMAN|Q9BRT2 : USER001

4 - 10 SRYRRFL

61 - 67 ARLHSNY

>CF150\_HUMAN|Q8N884 : USER001

163 - 169 SKLRAVL

>CF153\_HUMAN|Q96EU6 : USER001

99 - 105 AKIRVPF

>CF154\_HUMAN|Q5JTD7 : USER001

72 - 78 SRIKQLA

>CF165\_HUMAN|Q8IYR0 : USER001

542 - 548 KAIKLAN

>CF170\_HUMAN|Q96NH3 : USER001

280 - 286 KKVRLLN

830 - 836 AKIRSLF

>CF174\_HUMAN|Q5TF21 : USER001

587 - 593 LKLRLRL

>CF182\_HUMAN|Q8IYX8 : USER001

45 - 51 KILHSPN

>CF184\_HUMAN|A4QMU0 : USER001

9 - 15 AAFKALK

>CF185\_HUMAN|A2VCL2 : USER001

170 - 176 LALRQAL

>CF190\_HUMAN|Q8N1K5 : USER001

371 - 377 KAFHSPH

>CF192\_HUMAN|Q6NT16 : USER001

326 - 332 LHIKSQL

>CF199\_HUMAN|Q5TCS8 : USER001

448 - 454 AAIKVVK

>CFC1\_HUMAN|Q9GZR3 : USER001

5 - 11 HHVRLLF

>CFLAR\_HUMAN|O43618 : USER001

60 - 66 YRVRRFD

>CG010\_HUMAN|Q9HAC7 : USER001

321 - 327 LRVHNRK

>CG020\_HUMAN|Q7L5D6 : USER001

162 - 168 SRYHFLH

>CG026\_HUMAN|Q96N11 : USER001  
252 - 258 LAYKRKK

>CG027\_HUMAN|Q6PJG6 : USER001  
135 - 141 SALRFLA

>CG042\_HUMAN|Q9NWD8 : USER001  
295 - 301 SKLRQSN

>CG043\_HUMAN|Q8WVR3 : USER001  
400 - 406 LAVRLVW

>CG046\_HUMAN|A4D161 : USER001  
79 - 85 HRYKQHK

>CG051\_HUMAN|Q6ZVC0 : USER001  
691 - 697 ARIHHGD

>CG052\_HUMAN|Q8N8M0 : USER001  
82 - 88 SRYHSWL

>CG057\_HUMAN|Q8NEG2 : USER001  
168 - 174 KKLRLPA

>CGAT2\_HUMAN|Q8N6G5 : USER001  
316 - 322 SKVKSIL

>CGT\_HUMAN|Q16880 : USER001  
350 - 356 SKIKAFL  
462 - 468 AAVHQIS

>CH012\_HUMAN|Q96KT0 : USER001  
77 - 83 YKVKNAY

>CH037\_HUMAN|Q96NL8 : USER001  
81 - 87 SKLKSKS  
164 - 170 HKLKAKL

>CH038\_HUMAN|Q330K2 : USER001  
36 - 42 FALRAFN  
88 - 94 KAVKRHN  
114 - 120 KAYRNIK  
214 - 220 AHLHLKH

>CH045\_HUMAN|Q4G0Z9 : USER001  
56 - 62 HILHQPL

>CH048\_HUMAN|Q96LL4 : USER001  
148 - 154 KKLHLGL

>CH053\_HUMAN|Q9BRU9 : USER001  
229 - 235 KRIRNRS

>CH054\_HUMAN|Q8NA97 : USER001  
124 - 130 ARVKLLN

>CH055\_HUMAN|Q8WUY1 : USER001  
149 - 155 LRFRQHL

>CH073\_HUMAN|A6NGR9 : USER001  
172 - 178 AALRVLS

226 - 232 WALKGAS  
356 - 362 HHLRGLF  
>CH080\_HUMAN|Q68CJ6 : USER001  
152 - 158 AKIHLLS  
>CH25H\_HUMAN|O95992 : USER001  
157 - 163 HKVHHQN  
>CHADL\_HUMAN|Q6NUI6 : USER001  
515 - 521 AALRALP  
>CHAD\_HUMAN|O15335 : USER001  
330 - 336 AKFKGQH  
>CHCH3\_HUMAN|Q9NX63 : USER001  
83 - 89 KRLKQAK  
>CHD1\_HUMAN|O14646 : USER001  
824 - 830 LKYRQFP  
967 - 973 AILKFGA  
1426 - 1432 AALKQLD  
>CHD2\_HUMAN|O14647 : USER001  
459 - 465 KALKQRP  
585 - 591 KRLKFNA  
970 - 976 AILKFGA  
1481 - 1487 KALKQLD  
>CHD3\_HUMAN|Q12873 : USER001  
282 - 288 KKL RGKK  
292 - 298 LKIKLGL  
>CHD4\_HUMAN|Q14839 : USER001  
690 - 696 KKV KLRK  
>CHD5\_HUMAN|Q8TDI0 : USER001  
254 - 260 K KIKGSK  
>CHD6\_HUMAN|Q9H6D4 : USER001  
601 - 607 HRLKNRN  
>CHD7\_HUMAN|Q9P2D1 : USER001  
1108 - 1114 HRLKNRN  
1696 - 1702 KKVKAQS  
>CHD8\_HUMAN|Q9HCK8 : USER001  
413 - 419 KRIHQKL  
672 - 678 HRLKNRN  
1257 - 1263 KKVKSQS  
>CHD9\_HUMAN|Q3L8U1 : USER001  
1000 - 1006 HRLKNKN  
>CHDH\_HUMAN|Q8NE62 : USER001  
178 - 184 SRYRGAD  
435 - 441 LKLRSAN  
>CHERP\_HUMAN|Q8IWX8 : USER001

210 - 216 LRLHLIY

>CHIN\_HUMAN|P15882 : USER001

84 - 90 LALRFGS

>CHIO\_HUMAN|P52757 : USER001

94 - 100 LALRFGN

>CHK1\_HUMAN|O14757 : USER001

424 - 430 LIFKVNL

456 - 462 LKIKGKL

>CHL1\_HUMAN|O00533 : USER001

542 - 548 SHLKHSL

>CHLE\_HUMAN|P06276 : USER001

494 - 500 SIVKRWA

>CHMP5\_HUMAN|Q9NZZ3 : USER001

64 - 70 KALRVLK

118 - 124 KAYKQVK

>CHMP7\_HUMAN|Q8WUX9 : USER001

280 - 286 LALRSLK

>CHP1\_HUMAN|Q99653 : USER001

117 - 123 FAFRLYD

>CHP2\_HUMAN|O43745 : USER001

29 - 35 LRLHHRF

33 - 39 HRFRALD

>CHSS2\_HUMAN|Q8IZ52 : USER001

179 - 185 LALRHLL

>CHST1\_HUMAN|O43916 : USER001

360 - 366 WRFRLSY

>CHST2\_HUMAN|Q9Y4C5 : USER001

340 - 346 SRIRSRH

>CHST3\_HUMAN|Q7LGC8 : USER001

92 - 98 SRLRNLS

>CHST8\_HUMAN|Q9H2A9 : USER001

165 - 171 AKYRASS

231 - 237 SALKRLD

289 - 295 ARYRANA

>CHSTB\_HUMAN|Q9NPF2 : USER001

194 - 200 SAYRNKF

>CHSTC\_HUMAN|Q9NRB3 : USER001

253 - 259 SAFRSKF

>CHSTD\_HUMAN|Q8NET6 : USER001

182 - 188 SAYRNKL

>CHSTE\_HUMAN|Q8NCH0 : USER001

221 - 227 SAYRNKF

>CI005\_HUMAN|Q9H330 : USER001

402 - 408 KRYHVWW

780 - 786 LIFHLLP

>CI023\_HUMAN|Q8N5L8 : USER001

34 - 40 SKIRNLL

>CI031\_HUMAN|Q9NRJ2 : USER001

58 - 64 KALRGKA

>CI032\_HUMAN|Q9BV86 : USER001

109 - 115 KRVRNYF

>CI043\_HUMAN|Q8TAL5 : USER001

91 - 97 SKFHGRP

159 - 165 SAVKSKS

280 - 286 KKLHNLK

>CI050\_HUMAN|Q5SZB4 : USER001

271 - 277 FRVRFAD

>CI062\_HUMAN|Q8N4C0 : USER001

83 - 89 WRLRNSL

>CI084\_HUMAN|Q5VXU9 : USER001

109 - 115 SRLKFL

1009 - 1015 LIIRQIA

>CI097\_HUMAN|Q5T7W7 : USER001

110 - 116 SILKQLA

>CI098\_HUMAN|Q96MA6 : USER001

235 - 241 KILKVIS

>CI126\_HUMAN|Q8N9R8 : USER001

155 - 161 SAIRQRS

>CI131\_HUMAN|Q5VYM1 : USER001

773 - 779 LKLRLKK

778 - 784 KKLRQSP

>CI142\_HUMAN|Q9BUH6 : USER001

58 - 64 AALKARF

>CI166\_HUMAN|P0C2L3 : USER001

49 - 55 FAVHSHL

>CI167\_HUMAN|Q9NXH8 : USER001

190 - 196 LALHGPS

>CIA30\_HUMAN|Q9Y375 : USER001

90 - 96 AIYHFRL

92 - 98 YHFRLK

>CIAO1\_HUMAN|O76071 : USER001

296 - 302 AHLHQA

>CIB2\_HUMAN|O75838 : USER001

28 - 34 LKLHSRF

>CIC\_HUMAN|Q96RK0 : USER001

259 - 265 AHFKAHP

1329 - 1335 KKVKVRP

>CILP2\_HUMAN|Q8IUL8 : USER001

78 - 84 AAIRFYY

>CING\_HUMAN|Q9P2M7 : USER001

1099 - 1105 LRVKALK

>CIR1A\_HUMAN|Q969X6 : USER001

7 - 13 HRVRFFN

>CISD1\_HUMAN|Q9NZ45 : USER001

29 - 35 LAYKRFY

55 - 61 KIVHAFD

>CISY\_HUMAN|O75390 : USER001

215 - 221 KIYRNLY

363 - 369 FALKHLP

>CJ006\_HUMAN|Q8IX21 : USER001

591 - 597 SALKRKL

775 - 781 LILKSGK

1145 - 1151 ARIHGKW

>CJ018\_HUMAN|Q9H996 : USER001

2169 - 2175 LHVKLRS

2240 - 2246 SHLHQIP

2249 - 2255 LCLKHFP

>CJ033\_HUMAN|Q8N2H3 : USER001

109 - 115 LRLHLRN

111 - 117 LHLRNPY

>CJ038\_HUMAN|Q5VUB5 : USER001

718 - 724 AHVRHSY

>CJ064\_HUMAN|Q6ZS81 : USER001

639 - 645 AAFRVSS

>CJ068\_HUMAN|Q9H943 : USER001

61 - 67 LILRHQD

365 - 371 KHLKGVN

>CJ071\_HUMAN|Q711Q0 : USER001

1179 - 1185 KALRRAK

>CJ072\_HUMAN|Q8IW00 : USER001

210 - 216 SRVRHYL

>CJ076\_HUMAN|Q5T2E6 : USER001

386 - 392 HRLHSGK

>CJ092\_HUMAN|Q8IYW2 : USER001

32 - 38 ARLKLGL

>CJ111\_HUMAN|Q8N326 : USER001

40 - 46 KAVRVAL

67 - 73 WRLRLPS

90 - 96 LKLRNLD



>CJ118\_HUMAN|Q7Z3E2 : USER001  
151 - 157 SKIKSVS

>CJ119\_HUMAN|Q9BTE3 : USER001  
369 - 375 LILHLIS

>CJ131\_HUMAN|A6NCD4 : USER001  
138 - 144 LKVKAAD

>CK002\_HUMAN|Q9UID3 : USER001  
455 - 461 SHIKASL

>CK009\_HUMAN|Q9Y2G1 : USER001  
431 - 437 LKLHGVK  
707 - 713 AKLRRLD  
1118 - 1124 YHFRVAL

>CK021\_HUMAN|Q9P2W6 : USER001  
101 - 107 LAIRLGW

>CK037\_HUMAN|Q96N53 : USER001  
10 - 16 SAVRVKP

>CK038\_HUMAN|Q6UY27 : USER001  
35 - 41 KKYHLGL

>CK041\_HUMAN|Q6ZVL6 : USER001  
866 - 872 KAFHQND

>CK047\_HUMAN|Q2NKK8 : USER001  
291 - 297 KKIHFY  
446 - 452 KALRLLH  
460 - 466 SILRLVH

>CK056\_HUMAN|Q8N612 : USER001  
647 - 653 KKVRLVP

>CK061\_HUMAN|Q6P1R3 : USER001  
305 - 311 SRLHLSN

>CK063\_HUMAN|Q6NUN7 : USER001  
545 - 551 WKFHSSS  
770 - 776 AAFKVLH

>CK070\_HUMAN|Q9BRQ4 : USER001  
32 - 38 SRLRQWS

>CK080\_HUMAN|Q8N6T0 : USER001  
436 - 442 KRLKRGs

>CK5P1\_HUMAN|Q96SZ6 : USER001  
562 - 568 LRVRAQP

>CK5P2\_HUMAN|Q9UIW9 : USER001  
189 - 195 KALRLRL  
381 - 387 AALRSQN

>CKAP2\_HUMAN|Q9H012 : USER001  
148 - 154 FHLKNNS  
551 - 557 SKLHRNL

>CL004\_HUMAN|Q9NQ89 : USER001  
17 - 23 YKFKVGS  
41 - 47 SHLHGRL

>CL028\_HUMAN|Q96LU7 : USER001  
240 - 246 FHFRVAA

>CL029\_HUMAN|Q8N999 : USER001  
88 - 94 KRFKNFL

>CL030\_HUMAN|Q14CX7 : USER001  
565 - 571 FALRFFH

>CL031\_HUMAN|Q9BRT6 : USER001  
27 - 33 SRLKSIL  
119 - 125 KAVKVAK

>CL035\_HUMAN|Q9HCM1 : USER001  
1364 - 1370 LKLKSVS

>CL052\_HUMAN|Q96K30 : USER001  
135 - 141 AKLRALL

>CL056\_HUMAN|Q8IXR9 : USER001  
289 - 295 LHLKSSW  
366 - 372 FILKRLF

>CL061\_HUMAN|Q8N7H1 : USER001  
5 - 11 SAVRHQL

>CL063\_HUMAN|Q6ZTY8 : USER001  
308 - 314 SKYHNRS

>CL16A\_HUMAN|Q2KHT3 : USER001  
322 - 328 LIHHAP

>CLAP1\_HUMAN|Q7Z460 : USER001  
346 - 352 KKIRSL  
538 - 544 SHLKNSD  
1155 - 1161 KALRRSY  
1379 - 1385 ARFKNYA

>CLAP2\_HUMAN|O75122 : USER001  
25 - 31 SAFKVPA  
114 - 120 KKIRSL  
1135 - 1141 ARFKNYA

>CLAT\_HUMAN|P28329 : USER001  
544 - 550 YRLHRRL

>CLC11\_HUMAN|Q9Y240 : USER001  
125 - 131 LHVRLHA

>CLC2D\_HUMAN|Q9UHP7 : USER001  
123 - 129 LRYKGPS

>CLC3A\_HUMAN|O75596 : USER001  
25 - 31 SRLKARK

>CLC7A\_HUMAN|Q9H1K3 : USER001

166 - 172 FIVKQVS  
>CLCB\_HUMAN|P09497 : USER001  
213 - 219 SRLRSVL  
>CLCKA\_HUMAN|P51800 : USER001  
248 - 254 FIFRLLA  
>CLCN1\_HUMAN|P35523 : USER001  
297 - 303 FAVRNYW  
>CLCN2\_HUMAN|P51788 : USER001  
270 - 276 FAVRNYW  
287 - 293 FIFRVLA  
>CLCN3\_HUMAN|P51790 : USER001  
193 - 199 FIIRGYL  
693 - 699 LKLRSIL  
>CLCN4\_HUMAN|P51793 : USER001  
193 - 199 FIIRGYL  
490 - 496 LAYHHHD  
691 - 697 LKLRRIL  
>CLCN5\_HUMAN|P51795 : USER001  
180 - 186 FIIRGYL  
677 - 683 LKLNRIL  
>CLCN6\_HUMAN|Q5SNW2 : USER001  
744 - 750 LILRSQL  
860 - 866 ARLRQHY  
>CLCN7\_HUMAN|P51798 : USER001  
154 - 160 LKYRVIK  
678 - 684 LILRSQL  
788 - 794 ARYRLGK  
>CLGN\_HUMAN|O14967 : USER001  
189 - 195 YKLHFIF  
193 - 199 FIFRHKH  
>CLH1\_HUMAN|Q00610 : USER001  
218 - 224 FAVRGQA  
1440 - 1446 SKVKQLP  
>CLH2\_HUMAN|P53675 : USER001  
351 - 357 LAVRSNL  
>CLIC1\_HUMAN|O00299 : USER001  
135 - 141 KALKVLD  
>CLIC3\_HUMAN|O95833 : USER001  
188 - 194 AHFRQAP  
>CLIC4\_HUMAN|Q9Y696 : USER001  
196 - 202 HIVKVVA  
203 - 209 KKYRNFN  
>CLIC5\_HUMAN|Q9NZA1 : USER001

359 - 365 KKYRNYD  
>CLIP1\_HUMAN|P30622 : USER001  
780 - 786 KCLRQQL  
>CLIP4\_HUMAN|Q8N3C7 : USER001  
602 - 608 AALRRSW  
>CLK1\_HUMAN|P49759 : USER001  
191 - 197 KIVKNVD  
>CLK2\_HUMAN|P49760 : USER001  
51 - 57 YHVRERS  
151 - 157 LIYHVGD  
>CLK3\_HUMAN|P49761 : USER001  
34 - 40 SALRAQP  
417 - 423 HALRFLH  
>CLMN\_HUMAN|Q96JQ2 : USER001  
188 - 194 KAIKALL  
>CLN5\_HUMAN|O75503 : USER001  
335 - 341 LAIKRFY  
>CLP1\_HUMAN|Q92989 : USER001  
325 - 331 KIYKVGGA  
>CLPT1\_HUMAN|O96005 : USER001  
364 - 370 SIVHSVF  
531 - 537 YKLKSVVA  
>CLRN2\_HUMAN|A0PK11 : USER001  
157 - 163 AAVKFHD  
>CLSPN\_HUMAN|Q9HAW4 : USER001  
54 - 60 KKLKNRK  
>CLTR2\_HUMAN|Q9NS75 : USER001  
223 - 229 LIIRVLL  
>CLYBL\_HUMAN|Q8N0X4 : USER001  
19 - 25 LRLKASL  
153 - 159 FHLKGRK  
>CM018\_HUMAN|Q9H714 : USER001  
556 - 562 ARIRLSS  
563 - 569 SHFRQQH  
>CM027\_HUMAN|Q5JUR7 : USER001  
73 - 79 HRIKAYK  
76 - 82 KAYKSVL  
>CMC2\_HUMAN|Q9UJS0 : USER001  
328 - 334 SAYRFGL  
505 - 511 AHVKASF  
>CMGA\_HUMAN|P10645 : USER001  
68 - 74 SILRHQN  
>CML1\_HUMAN|Q99788 : USER001

324 - 330 KKFKVAL  
>CMTA1\_HUMAN|Q9Y6Y1 : USER001  
1579 - 1585 SKFRSYY  
>CMTA2\_HUMAN|O94983 : USER001  
1110 - 1116 SKFRSYY  
>CN021\_HUMAN|Q86U38 : USER001  
127 - 133 AALRSNL  
572 - 578 AALRARK  
>CN025\_HUMAN|Q8IY25 : USER001  
34 - 40 LRFKQKL  
>CN044\_HUMAN|Q96MY7 : USER001  
464 - 470 SAVRSAL  
>CN045\_HUMAN|Q8ND07 : USER001  
379 - 385 KHYKQIA  
>CN050\_HUMAN|Q96LQ0 : USER001  
334 - 340 KKYHQVD  
>CN083\_HUMAN|Q8NBD8 : USER001  
16 - 22 YAIHGYF  
93 - 99 FILRQFN  
>CN101\_HUMAN|Q9NX78 : USER001  
611 - 617 SKVKAQL  
>CN102\_HUMAN|Q9H7Z3 : USER001  
435 - 441 SKIHSLY  
870 - 876 HILKARK  
1149 - 1155 LRVRLPL  
>CN104\_HUMAN|Q9NVR5 : USER001  
48 - 54 YKLRFSA  
>CN105\_HUMAN|Q9NVL8 : USER001  
91 - 97 SIIKRHP  
>CN115\_HUMAN|Q9H8Y1 : USER001  
442 - 448 KALRRNP  
>CN118\_HUMAN|Q9NWQ4 : USER001  
351 - 357 KRIKRWL  
>CN133\_HUMAN|Q9H9C1 : USER001  
378 - 384 AKLRAWN  
>CN143\_HUMAN|Q9BUY7 : USER001  
118 - 124 KAQRQVA  
>CN145\_HUMAN|Q6ZU80 : USER001  
493 - 499 WKLKHKK  
776 - 782 KKLKLY  
1002 - 1008 YRVRRNS  
>CN155\_HUMAN|Q5H9T9 : USER001  
709 - 715 AAVHSPP

>CN159\_HUMAN|Q9H8Y9 : USER001  
5 - 11 LHLRSRL

>CN16B\_HUMAN|Q0VAA2 : USER001  
326 - 332 LAIKRNP

>CN37\_HUMAN|P09543 : USER001  
53 - 59 FILRGLP

>CND1\_HUMAN|Q15021 : USER001  
68 - 74 HHFRSID  
568 - 574 LIFKGPA  
1082 - 1088 LAIRFPN

>CND3\_HUMAN|Q9BPX3 : USER001  
407 - 413 LIIKSLD  
640 - 646 SALKAIF

>CNDD3\_HUMAN|P42695 : USER001  
215 - 221 AIFHLLK  
655 - 661 SHFHSGD  
1098 - 1104 KIYKFL

>CNDG2\_HUMAN|Q86XI2 : USER001  
187 - 193 WRIHQAL  
487 - 493 KAVRAAK

>CNGA4\_HUMAN|Q8IV77 : USER001  
495 - 501 SRLRGLD

>CNGB1\_HUMAN|Q14028 : USER001  
788 - 794 AHLRARL

>CNGB3\_HUMAN|Q9NQW8 : USER001  
202 - 208 KRIKLPN  
538 - 544 LRLKSVL

>CNKR2\_HUMAN|Q8WXI2 : USER001  
254 - 260 KKIHAGD

>CNKR3\_HUMAN|Q6P9H4 : USER001  
86 - 92 LKLRASS

>CNNM3\_HUMAN|Q8NE01 : USER001  
101 - 107 LRLRLRA

>CNOTA\_HUMAN|Q9H9A5 : USER001  
167 - 173 KALHLLA  
216 - 222 SKIHQYK  
268 - 274 KAVKLLN

>CNR1\_HUMAN|P21554 : USER001  
397 - 403 YALRSKD

>CNTD2\_HUMAN|Q9H8S5 : USER001  
101 - 107 LAVHLLD

>CNTN2\_HUMAN|Q02246 : USER001  
125 - 131 AILRFGF

473 - 479 LIIRNIS

>CNTN3\_HUMAN|Q9P232 : USER001

271 - 277 SKIKLRK

592 - 598 LIVRGSP

864 - 870 ARLRGLK

>CNTN4\_HUMAN|Q8IWV2 : USER001

591 - 597 LIVRGPP

875 - 881 LAVKAYN

>CNTP1\_HUMAN|P78357 : USER001

53 - 59 ARLHGIS

80 - 86 HRIRAVA

314 - 320 LAYRHNH

337 - 343 LAVRRHS

794 - 800 AALRFPP

1015 - 1021 SALRSAA

1309 - 1315 HRYKGSY

>CNTP2\_HUMAN|Q9UHC6 : USER001

198 - 204 YRFRNKK

>CNTP4\_HUMAN|Q9C0A0 : USER001

776 - 782 AAYKLGP

>CNTP5\_HUMAN|Q8WYK1 : USER001

238 - 244 LALHLNL

>CO029\_HUMAN|Q9H079 : USER001

73 - 79 KKVHHPF

>CO033\_HUMAN|Q96M60 : USER001

174 - 180 FILKAHN

>CO038\_HUMAN|Q7Z6K5 : USER001

67 - 73 SHIHRRK

>CO039\_HUMAN|Q6ZRI6 : USER001

900 - 906 LALRQLP

1004 - 1010 ARFRSLL

>CO042\_HUMAN|Q7Z2Z1 : USER001

21 - 27 SRVRRAA

45 - 51 WAFKFFD

>CO043\_HUMAN|Q8NHR7 : USER001

200 - 206 LAYHVQN

211 - 217 SAIKNKL

>CO045\_HUMAN|Q96MF0 : USER001

69 - 75 SALRQVN

>CO056\_HUMAN|Q8N910 : USER001

129 - 135 LRLRALA

>CO2\_HUMAN|P06681 : USER001

121 - 127 FILRGSP

443 - 449 KALHQVF  
>CO3\_HUMAN|P01024 : USER001  
204 - 210 WKIRAYY  
1057 - 1063 LAFRQPS  
1461 - 1467 FKVHQYF  
>CO4A4\_HUMAN|P53420 : USER001  
562 - 568 SRVKGHK  
>CO4A\_HUMAN|Q9NPK5 : USER001  
833 - 839 FHLHLRL  
>CO4B\_HUMAN|Q9UIP5 : USER001  
833 - 839 FHLHLRL  
>CO5A1\_HUMAN|P20908 : USER001  
555 - 561 LALRGPA  
>CO5\_HUMAN|P01031 : USER001  
29 - 35 KIFRVGA  
>CO6A2\_HUMAN|Q6P0Q1 : USER001  
705 - 711 SALKFAY  
>CO6A3\_HUMAN|P12111 : USER001  
1506 - 1512 LRLRGGS  
2500 - 2506 KRVRNGF  
>CO6\_HUMAN|P13671 : USER001  
101 - 107 SKVRSVL  
>CO7A1\_HUMAN|Q02388 : USER001  
122 - 128 AILHVAD  
>CO8A\_HUMAN|P07357 : USER001  
56 - 62 KKYRHRS  
421 - 427 SRVRGGS  
>CO8B\_HUMAN|P07358 : USER001  
302 - 308 AHYKLKP  
>CO9A1\_HUMAN|Q9H152 : USER001  
23 - 29 AAVKRRP  
>COAC\_HUMAN|Q96CD2 : USER001  
29 - 35 AALKLPL  
>COBA2\_HUMAN|P13942 : USER001  
483 - 489 LALRGPP  
1664 - 1670 LRLRGAN  
>COBL1\_HUMAN|Q53SF7 : USER001  
927 - 933 SKFKSRA  
>COBL\_HUMAN|O75128 : USER001  
699 - 705 YRLKHGL  
968 - 974 AAIHRSS  
1155 - 1161 AAIRGHS  
>COCA1\_HUMAN|Q99715 : USER001



2233 - 2239 YRLKLSP

>COE1\_HUMAN|Q9UH73 : USER001

550 - 556 SAVKQKS

>COE3\_HUMAN|Q9H4W6 : USER001

555 - 561 SAVKQKS

>COE4\_HUMAN|Q9BQW3 : USER001

111 - 117 YRLRLVY

548 - 554 SAVKQRS

>COG1\_HUMAN|Q8WTW3 : USER001

523 - 529 SKLKVKL

606 - 612 AKLHSVL

733 - 739 SKIRLPA

>COG2\_HUMAN|Q14746 : USER001

365 - 371 KRLRAHP

>COG3\_HUMAN|Q96JB2 : USER001

413 - 419 LIIHVIH

>COG4\_HUMAN|Q9H9E3 : USER001

110 - 116 SKVRQLD

156 - 162 AHIHRYL

>COG5\_HUMAN|Q9UP83 : USER001

306 - 312 SAVRGGP

324 - 330 AALRASL

>COG7\_HUMAN|P83436 : USER001

19 - 25 AAFRAGS

423 - 429 SALKSLF

588 - 594 LRIKQQL

654 - 660 LALHAGK

>COG8\_HUMAN|Q96MW5 : USER001

278 - 284 SRVHLFD

>COGA1\_HUMAN|Q07092 : USER001

66 - 72 KKIRNPK

75 - 81 LILRLGA

>COIA1\_HUMAN|Q9UK38 : USER001

495 - 501 ARYHFPS

1630 - 1636 SIVRRAD

>COJA1\_HUMAN|Q9H572 : USER001

106 - 112 FRVRRNA

>COKA1\_HUMAN|Q9P218 : USER001

256 - 262 LRYKGGN

>COLI\_HUMAN|P01189 : USER001

257 - 263 AIIKNAY

>COMA1\_HUMAN|Q8NFW1 : USER001

108 - 114 LAYHGGN

>COMD7\_HUMAN|Q86VX2 : USER001  
70 - 76 SIVKSLL

>COMT\_HUMAN|P21964 : USER001  
231 - 237 AHVRGSS

>COPA\_HUMAN|P53621 : USER001  
10 - 16 ARVKGLS  
73 - 79 YKIKVWN  
597 - 603 FKFKLAL  
1113 - 1119 FKLKNFK

>COPB2\_HUMAN|P35606 : USER001  
413 - 419 KIFKNFK

>COPB\_HUMAN|P53618 : USER001  
447 - 453 HAIKSVK  
453 - 459 KIYRGAL

>COPD\_HUMAN|P48444 : USER001  
224 - 230 KALKLGA

>COPE\_HUMAN|O14579 : USER001  
135 - 141 AALRALH

>COPG2\_HUMAN|Q9UBF2 : USER001  
273 - 279 AIIHLPN

>COR1A\_HUMAN|P31146 : USER001  
9 - 15 SKFRHVF

>COR1B\_HUMAN|Q9BR76 : USER001  
10 - 16 SKFRHVF

>COR1C\_HUMAN|Q9ULV4 : USER001  
8 - 14 SKFRHVF  
196 - 202 KKVRVID

>COR2A\_HUMAN|Q92828 : USER001  
10 - 16 SKFRHVF

>COR2B\_HUMAN|Q9UQ03 : USER001  
10 - 16 SKFRNVY

>CORA1\_HUMAN|Q8IZC6 : USER001  
115 - 121 FAVRSQK

>CORO6\_HUMAN|Q6QEF8 : USER001  
9 - 15 SKFRHVF

>CORO7\_HUMAN|P57737 : USER001  
801 - 807 LRLRQSS

>COSA1\_HUMAN|Q2UY09 : USER001  
197 - 203 AKLRLIS

>COTE1\_HUMAN|P81408 : USER001  
24 - 30 LRLHRPW

>COX18\_HUMAN|Q8N8Q8 : USER001  
186 - 192 FALRNLS

>COX41\_HUMAN|P13073 : USER001  
50 - 56 AHVKHLS

>COX5B\_HUMAN|P10606 : USER001  
118 - 124 AHYKLVP

>COX6C\_HUMAN|P09669 : USER001  
37 - 43 YKFRVAD

>COX82\_HUMAN|P10176 : USER001  
24 - 30 AKIHSLP

>CP007\_HUMAN|Q9Y2B5 : USER001  
288 - 294 AKLKRNP

>CP035\_HUMAN|Q12980 : USER001  
128 - 134 FALRANA

>CP042\_HUMAN|Q9UJK0 : USER001  
140 - 146 SHLRLLP

>CP045\_HUMAN|Q96MC5 : USER001  
152 - 158 LRIKLP

>CP048\_HUMAN|Q9H0I2 : USER001  
144 - 150 SRVKAQL

>CP062\_HUMAN|Q9H7C8 : USER001  
953 - 959 LALRLPL

>CP070\_HUMAN|Q9BSU1 : USER001  
213 - 219 LRLRLA

>CP071\_HUMAN|Q8IYS4 : USER001  
25 - 31 AILKAVK

>CP080\_HUMAN|Q9Y6A4 : USER001  
27 - 33 KKVRNGH

>CP084\_HUMAN|Q2VPK5 : USER001  
102 - 108 KRLRFVA

>CP11A\_HUMAN|P05108 : USER001  
72 - 78 HKVHLHH

>CP20A\_HUMAN|Q6UW02 : USER001  
428 - 434 KRLHLLS

>CP21A\_HUMAN|P08686 : USER001  
22 - 28 WKLRSLH  
59 - 65 YRLHLGL

>CP250\_HUMAN|Q9BV73 : USER001  
431 - 437 KALRQRL  
487 - 493 WRLRRVN  
597 - 603 AAVKLSA  
1386 - 1392 SALKLKN

>CP26A\_HUMAN|O43174 : USER001  
23 - 29 AAIKLWD

>CP2R1\_HUMAN|Q6V VX0 : USER001

469 - 475 FHLHFPH  
>CP343\_HUMAN|Q9HB55 : USER001  
491 - 497 LKVHLRD  
>CP3A4\_HUMAN|P08684 : USER001  
127 - 133 KRLRSLL  
>CP3A5\_HUMAN|P20815 : USER001  
127 - 133 KRIRSLL  
>CP3A7\_HUMAN|P24462 : USER001  
127 - 133 KRIRSLL  
>CP4AB\_HUMAN|Q02928 : USER001  
230 - 236 SRVRNAF  
504 - 510 LRLRRLP  
>CP4B1\_HUMAN|P13584 : USER001  
410 - 416 YALHRNS  
498 - 504 FHLHLKP  
>CP4F2\_HUMAN|P78329 : USER001  
487 - 493 LRFRVLP  
>CP4F3\_HUMAN|Q08477 : USER001  
487 - 493 LRFRVLP  
>CP4F8\_HUMAN|P98187 : USER001  
425 - 431 FAIHHNP  
>CP4FC\_HUMAN|Q9HCS2 : USER001  
487 - 493 LHFRFLP  
>CP4FN\_HUMAN|Q6NT55 : USER001  
245 - 251 YRLHHYL  
>CP4Z1\_HUMAN|Q86W10 : USER001  
409 - 415 WALHHNP  
471 - 477 LRFKLAP  
>CP7A1\_HUMAN|P22680 : USER001  
497 - 503 FKYKFKH  
>CP7B1\_HUMAN|O75881 : USER001  
500 - 506 FRYKVKS  
>CP8B1\_HUMAN|Q9UNU6 : USER001  
327 - 333 FAFKLGGA  
348 - 354 LRLRAAP  
493 - 499 FRYRLHP  
>CPEB1\_HUMAN|Q9BZB8 : USER001  
279 - 285 ARLHRQA  
>CPEB4\_HUMAN|Q17RY0 : USER001  
699 - 705 AAIHSRA  
>CPN2\_HUMAN|P22792 : USER001  
390 - 396 LALHGNP  
>CPNE4\_HUMAN|Q96A23 : USER001

456 - 462 AIVHASH  
>CPNE7\_HUMAN|Q9UBL6 : USER001  
363 - 369 LKFHRVY  
>CPNS1\_HUMAN|P04632 : USER001  
176 - 182 AIYKQFD  
>CPSF1\_HUMAN|Q10570 : USER001  
888 - 894 LKVRFKK  
>CPSF2\_HUMAN|Q9P2I0 : USER001  
50 - 56 KHVHQID  
>CPSF3\_HUMAN|Q9UKF6 : USER001  
425 - 431 ARLKAAL  
>CPSM\_HUMAN|P31327 : USER001  
1489 - 1495 FHYRQYS  
>CPT1A\_HUMAN|P50416 : USER001  
221 - 227 LKLKSWW  
>CPT1C\_HUMAN|Q8TCG5 : USER001  
221 - 227 LRLKSWW  
529 - 535 LALRGAK  
>CPT2\_HUMAN|P23786 : USER001  
158 - 164 SAIRFLK  
536 - 542 SKYHGQL  
557 - 563 FALRHLA  
>CPXCR\_HUMAN|Q8N123 : USER001  
231 - 237 AIVRSVL  
>CPXM2\_HUMAN|Q8N436 : USER001  
745 - 751 LKLRGRK  
>CPZIP\_HUMAN|Q6JBY9 : USER001  
78 - 84 FKVKSSP  
>CQ028\_HUMAN|Q8IV36 : USER001  
340 - 346 FILKGIA  
559 - 565 SIFHQLA  
>CQ048\_HUMAN|Q3LIE5 : USER001  
148 - 154 YAYHFVP  
>CQ053\_HUMAN|Q8N3J3 : USER001  
485 - 491 AALKQLP  
>CQ056\_HUMAN|Q96N21 : USER001  
59 - 65 SRLHSSS  
89 - 95 LILKRNS  
>CQ057\_HUMAN|Q8IY85 : USER001  
182 - 188 SKIRSGK  
>CQ062\_HUMAN|Q9BQA9 : USER001  
13 - 19 LHLKRAP  
>CQ063\_HUMAN|Q8WU58 : USER001

103 - 109 AIVKVPA  
267 - 273 SIVHQIN  
>CQ065\_HUMAN|Q495Z4 : USER001  
182 - 188 KILKAWD  
>CQ068\_HUMAN|Q2NKJ3 : USER001  
213 - 219 LRLRNKL  
>CQ071\_HUMAN|Q8ND04 : USER001  
578 - 584 HKFHSLP  
878 - 884 SALKALN  
>CQ078\_HUMAN|Q8N4C9 : USER001  
75 - 81 SKVKVNL  
>CQ080\_HUMAN|Q9BSJ5 : USER001  
19 - 25 KRLKSHL  
>CQ085\_HUMAN|Q53F19 : USER001  
94 - 100 KRFHFRS  
>CQ089\_HUMAN|A1L188 : USER001  
13 - 19 SRLRAFP  
>CR016\_HUMAN|Q96NN2 : USER001  
119 - 125 SRVHAIL  
>CR019\_HUMAN|Q96ND0 : USER001  
155 - 161 AALKGVN  
>CR021\_HUMAN|Q32NC0 : USER001  
55 - 61 SRVRLKP  
>CR030\_HUMAN|Q8N787 : USER001  
264 - 270 AKLRRLA  
485 - 491 WRFKGAS  
>CR034\_HUMAN|Q5BJE1 : USER001  
493 - 499 KHLKNIY  
>CR051\_HUMAN|Q0P6D2 : USER001  
203 - 209 KIFRHWF  
252 - 258 WKLRQLL  
>CR054\_HUMAN|Q8IYD9 : USER001  
349 - 355 KALHHLS  
>CR1\_HUMAN|P17927 : USER001  
1290 - 1296 FRLKGSS  
1743 - 1749 FRLKGRS  
>CRBA4\_HUMAN|P53673 : USER001  
142 - 148 FHVHSGA  
>CRCM1\_HUMAN|Q96D31 : USER001  
84 - 90 AKLKASS  
>CREB5\_HUMAN|Q02930 : USER001  
318 - 324 SHLHAHP  
>CREL1\_HUMAN|Q96HD1 : USER001

236 - 242 WALHHLK  
>CRIP3\_HUMAN|Q6Q6R5 : USER001  
202 - 208 WHVHGLW  
>CRLD1\_HUMAN|Q9H336 : USER001  
492 - 498 KAFRVFA  
>CRLD2\_HUMAN|Q9H0B8 : USER001  
382 - 388 SKVKVQD  
>CRLF1\_HUMAN|O75462 : USER001  
171 - 177 LKYKLRW  
>CRLF2\_HUMAN|Q9HC73 : USER001  
123 - 129 KHVRFWS  
>CRML\_HUMAN|Q96RY5 : USER001  
154 - 160 KKVRRQW  
>CRNL1\_HUMAN|Q9NQH5 : USER001  
177 - 183 AKVKNKA  
>CROCC\_HUMAN|Q5TZA2 : USER001  
1438 - 1444 SALRRGL  
>CRSPL\_HUMAN|Q9H3Y0 : USER001  
207 - 213 YAIKGNW  
>CRTAP\_HUMAN|O75718 : USER001  
46 - 52 SAYRHAL  
71 - 77 LRLHRL  
>CRUM2\_HUMAN|Q5IJ48 : USER001  
922 - 928 LAVRNGS  
>CRY2\_HUMAN|Q49AN0 : USER001  
293 - 299 KKVKRNS  
>CS015\_HUMAN|Q6ZRH7 : USER001  
899 - 905 SRLKNKH  
1054 - 1060 LHIHGLP  
>CS018\_HUMAN|Q8NEA5 : USER001  
90 - 96 AIIRHRP  
>CS021\_HUMAN|Q8IVT2 : USER001  
509 - 515 LRFRAPD  
>CS029\_HUMAN|Q8WUQ7 : USER001  
638 - 644 AILRFHA  
640 - 646 LRFHAGP  
>CS035\_HUMAN|Q6ZS72 : USER001  
151 - 157 ARLRARL  
424 - 430 LRVRRGL  
>CS044\_HUMAN|Q9H6X5 : USER001  
86 - 92 SRIRANA  
>CS045\_HUMAN|Q8NA69 : USER001  
312 - 318 HILKGNW

463 - 469 AALRLKN  
>CS046\_HUMAN|Q8N205 : USER001  
189 - 195 SIFRRLW  
>CS047\_HUMAN|Q8N9M1 : USER001  
100 - 106 AILKHAK  
>CS051\_HUMAN|Q8N9W5 : USER001  
192 - 198 SRLRHYL  
246 - 252 SAYHVPN  
>CS052\_HUMAN|Q9BSF4 : USER001  
4 - 10 AALRRFW  
>CSF1R\_HUMAN|P07333 : USER001  
538 - 544 YKYKQKP  
809 - 815 YIVKGNA  
>CSK22\_HUMAN|P19784 : USER001  
170 - 176 KKLRLID  
>CSKI1\_HUMAN|Q8WXD9 : USER001  
51 - 57 SALHHAA  
403 - 409 HALHAGS  
>CSKI2\_HUMAN|Q8WXE0 : USER001  
9 - 15 LAVKNGD  
51 - 57 SALHHAA  
284 - 290 LKVRALK  
>CSMD1\_HUMAN|Q96PZ7 : USER001  
621 - 627 SRIHLIF  
1480 - 1486 WRVKVNP  
1492 - 1498 LIFKSFN  
>CSMD2\_HUMAN|Q9H4W1 : USER001  
407 - 413 AHLRGPS  
535 - 541 SRFHHGD  
614 - 620 SRIHLAF  
>CSMD3\_HUMAN|Q7Z407 : USER001  
296 - 302 HRYRGFS  
720 - 726 SRIHLSF  
>CSN2\_HUMAN|P61201 : USER001  
170 - 176 KILRQLH  
212 - 218 KKLKALY  
>CSN6\_HUMAN|Q7L5N1 : USER001  
233 - 239 SRVKLIL  
>CSPG2\_HUMAN|P13611 : USER001  
22 - 28 HKVKVGK  
>CSPG4\_HUMAN|Q6UVK1 : USER001  
1556 - 1562 FRFRLSD  
1798 - 1804 FHFRAHL



>CSR2B\_HUMAN|Q9H8E8 : USER001  
224 - 230 LKKAAS  
495 - 501 LIVRQAK  
621 - 627 SHLHRSD  
>CST8\_HUMAN|O60676 : USER001  
111 - 117 SKLKRKL  
>CST9L\_HUMAN|Q9H4G1 : USER001  
66 - 72 YAYRLGH  
>CST9M\_HUMAN|Q5W188 : USER001  
66 - 72 YAYKLVP  
>CSTF3\_HUMAN|Q12996 : USER001  
682 - 688 KAVKRPN  
>CSTN1\_HUMAN|O94985 : USER001  
87 - 93 FKIHGQN  
775 - 781 LRYRNWH  
880 - 886 FRIRAAH  
>CSTN3\_HUMAN|Q9BQT9 : USER001  
763 - 769 ARYRLRH  
765 - 771 YRLRHGA  
>CSTP1\_HUMAN|Q9BRF8 : USER001  
287 - 293 KIVHRYY  
>CT012\_HUMAN|Q9H442 : USER001  
412 - 418 KRIKNFK  
>CT027\_HUMAN|Q9GZN8 : USER001  
88 - 94 LHLKLLS  
>CT032\_HUMAN|Q9NQ75 : USER001  
688 - 694 SAFHGSL  
>CT043\_HUMAN|Q9BY42 : USER001  
80 - 86 SHIKSIK  
>CT085\_HUMAN|Q9H1P6 : USER001  
23 - 29 WKYRLKA  
>CT094\_HUMAN|Q5VYV7 : USER001  
159 - 165 AKLRRNA  
329 - 335 KAVRVLP  
>CT096\_HUMAN|Q9NUD7 : USER001  
142 - 148 LHVRALL  
>CT103\_HUMAN|Q9UJQ1 : USER001  
254 - 260 AIYHVHH  
>CT106\_HUMAN|Q5JX71 : USER001  
42 - 48 FRIRQNL  
128 - 134 SKVRNLK  
>CT107\_HUMAN|Q5JX69 : USER001  
42 - 48 FRIRQNL

>CT118\_HUMAN|A0PJX2 : USER001  
122 - 128 SAIRLSK

>CT121\_HUMAN|Q9BTX7 : USER001  
221 - 227 KAVHVVN

>CT135\_HUMAN|Q9H3Z7 : USER001  
229 - 235 YALHRLH  
232 - 238 HRLHFPP

>CT142\_HUMAN|Q8N6M3 : USER001  
18 - 24 AAVRRYL

>CT160\_HUMAN|Q9NUG4 : USER001  
513 - 519 SAVRSYD

>CT174\_HUMAN|Q5JPB2 : USER001  
1291 - 1297 KRYKGNF

>CT175\_HUMAN|Q96MK2 : USER001  
721 - 727 HRVRGKY  
877 - 883 LALKHLK

>CT194\_HUMAN|Q5TEA3 : USER001  
427 - 433 FHIHAVN  
671 - 677 KRLHSSA

>CT195\_HUMAN|Q9BVV2 : USER001  
182 - 188 LHVKHRL  
242 - 248 LRFRLLD

>CT75\_HUMAN|Q6PK30 : USER001  
95 - 101 ARVHARS

>CTBL1\_HUMAN|Q8NCL2 : USER001  
99 - 105 LRIKFPD  
352 - 358 SALKVLD

>CTHR1\_HUMAN|Q96CG8 : USER001  
135 - 141 SALRVLF

>CTL2\_HUMAN|Q8IWA5 : USER001  
177 - 183 HAYKGV L

>CTLF6\_HUMAN|Q5VTM2 : USER001  
95 - 101 KRLKHRF

>CTNA3\_HUMAN|Q9UI47 : USER001  
681 - 687 KKVKSKL  
869 - 875 AAVRRGS

>CTND2\_HUMAN|Q9UQB3 : USER001  
236 - 242 SAFHLPD

>CTR3\_HUMAN|Q8WY07 : USER001  
537 - 543 LHFKVPA

>CTR9\_HUMAN|Q6PD62 : USER001  
291 - 297 LALHAFH  
460 - 466 LHFRLGN

634 - 640 AIYKQVL  
>CTRO\_HUMAN|O14578 : USER001  
207 - 213 LAVHSVH  
1660 - 1666 KKVKQSL  
>CTSR1\_HUMAN|Q8NEC5 : USER001  
73 - 79 SHVHQSH  
141 - 147 SHYHRGS  
535 - 541 AIYHQSL  
>CTSR3\_HUMAN|Q86XQ3 : USER001  
30 - 36 KKFKRND  
>CTSR4\_HUMAN|Q7RTX7 : USER001  
36 - 42 AALRGRP  
>CTSRB\_HUMAN|Q9H7T0 : USER001  
346 - 352 HIFKGIK  
>CTTB2\_HUMAN|Q8WZ74 : USER001  
1135 - 1141 YIVHQLA  
1607 - 1613 SRVKSFL  
>CU013\_HUMAN|O95447 : USER001  
149 - 155 HKIKGLK  
582 - 588 SRIKVKD  
>CU025\_HUMAN|Q9Y426 : USER001  
500 - 506 SKLKLKS  
>CU059\_HUMAN|P57076 : USER001  
4 - 10 LHVKRGD  
>CU067\_HUMAN|P58512 : USER001  
145 - 151 WAIRGRS  
>CU070\_HUMAN|Q9NSI2 : USER001  
9 - 15 ARVHQAA  
>CU088\_HUMAN|P59052 : USER001  
81 - 87 WRIHVQA  
>CU096\_HUMAN|Q9H7H1 : USER001  
44 - 50 SKLRSGL  
>CU124\_HUMAN|Q96HW9 : USER001  
71 - 77 HKVRSFF  
>CU125\_HUMAN|Q6ZR72 : USER001  
86 - 92 SILKAVL  
>CUBN\_HUMAN|O60494 : USER001  
680 - 686 ARIHFHS  
2983 - 2989 HIIRGYS  
>CUL3\_HUMAN|Q13618 : USER001  
667 - 673 SKLHRVK  
>CUL4A\_HUMAN|Q13619 : USER001  
415 - 421 SKLRAGN

>CUL4B\_HUMAN|Q13620 : USER001  
551 - 557 SKLRAGN

>CUL5\_HUMAN|Q93034 : USER001  
59 - 65 AKIHQAL

>CUL7\_HUMAN|Q14999 : USER001  
43 - 49 LILRRGD

>CUZD1\_HUMAN|Q86UP6 : USER001  
190 - 196 YKIKLNF

>CV015\_HUMAN|Q8WYQ4 : USER001  
26 - 32 AHLRQKA

>CV028\_HUMAN|Q9Y3I0 : USER001  
493 - 499 KAIKLRP

>CV030\_HUMAN|Q5THK1 : USER001  
752 - 758 KALHSRL  
756 - 762 SRLRSNK  
805 - 811 AAFKSSK  
1654 - 1660 LRYKRLL  
1721 - 1727 FHVKSSS

>CV031\_HUMAN|O95567 : USER001  
103 - 109 KRLKHKD  
241 - 247 KAIKQKL

>CWC15\_HUMAN|Q9P013 : USER001  
182 - 188 FKVKRRW

>CX020\_HUMAN|Q8NDZ0 : USER001  
489 - 495 LKIHLLA

>CX023\_HUMAN|A2AJT9 : USER001  
590 - 596 SKVKNVH

>CX034\_HUMAN|Q9H9K2 : USER001  
100 - 106 LKVKFAA

>CX041\_HUMAN|Q9NQM4 : USER001  
144 - 150 AKIKLPN

>CX050\_HUMAN|Q8TAW5 : USER001  
7 - 13 KRYRSFL

>CX058\_HUMAN|Q96LI9 : USER001  
326 - 332 YHLHSIF

>CX3C1\_HUMAN|P49238 : USER001  
228 - 234 KAIKLIL

>CX7B2\_HUMAN|Q8TF08 : USER001  
25 - 31 SHVKHSP

>CXA10\_HUMAN|Q969M2 : USER001  
531 - 537 KIIHSIH

>CXA3\_HUMAN|Q9Y6H8 : USER001  
73 - 79 SHIRFWA

>CXA4\_HUMAN|P35212 : USER001  
145 - 151 LRIRGAL

>CXA5\_HUMAN|P36382 : USER001  
232 - 238 KKIRQRF

>CXA9\_HUMAN|P57773 : USER001  
236 - 242 KIKRGL

>CXB1\_HUMAN|P08034 : USER001  
72 - 78 SHVRLWS

>CXB2\_HUMAN|Q96AK0 : USER001  
72 - 78 SHIRLWA

>CXB4\_HUMAN|Q9NTQ9 : USER001  
72 - 78 SHVRLWA  
105 - 111 HHLKHGP  
147 - 153 YIFHRLY

>CXB5\_HUMAN|O95377 : USER001  
72 - 78 SHVRLWA

>CXB6\_HUMAN|O95452 : USER001  
72 - 78 SHIRLWA

>CXCR4\_HUMAN|P61073 : USER001  
110 - 116 KAVHVIY

>CXCR5\_HUMAN|P32302 : USER001  
150 - 156 AIVHAVH  
285 - 291 ARLKAVD

>CXD3\_HUMAN|Q8N144 : USER001  
73 - 79 SHYRFWL

>CXD4\_HUMAN|Q96KN9 : USER001  
73 - 79 SHLRFWL  
143 - 149 YIIIHLLL

>CXG2\_HUMAN|Q5T442 : USER001  
97 - 103 YAVHRLA

>CXL10\_HUMAN|P02778 : USER001  
80 - 86 KAIKNLL

>CXL11\_HUMAN|O14625 : USER001  
38 - 44 KAVKVAD

>CXL16\_HUMAN|Q9H2A7 : USER001  
60 - 66 KHLRAYH

>CXXC6\_HUMAN|Q8NFU7 : USER001  
1727 - 1733 AKIKSGA  
1820 - 1826 FILKSSD

>CY1\_HUMAN|P08574 : USER001  
199 - 205 YIVRARH

>CY24B\_HUMAN|P04839 : USER001  
418 - 424 SILKSVW

>CYFP1\_HUMAN|Q7L576 : USER001  
186 - 192 SAYKRAA

>CYFP2\_HUMAN|Q96F07 : USER001  
186 - 192 SAYKRAA  
959 - 965 KIVKSLL

>CYTM\_HUMAN|Q15828 : USER001  
73 - 79 HIIKAQS

>D192P\_HUMAN|Q6NXN4 : USER001  
184 - 190 KRFHLYP

>D19L2\_HUMAN|Q6NUT2 : USER001  
189 - 195 KRFHLYP

>D19L3\_HUMAN|Q6ZPD9 : USER001  
373 - 379 HIFKFLK

>D19L4\_HUMAN|Q7Z388 : USER001  
345 - 351 KIIKVIN

>DAAM1\_HUMAN|Q9Y4D1 : USER001  
300 - 306 FRLHLRY  
701 - 707 SRLKLSN

>DAAM2\_HUMAN|Q86T65 : USER001  
296 - 302 FRLHLRY  
686 - 692 SKLKLSN

>DACT1\_HUMAN|Q9NYF0 : USER001  
821 - 827 KILRFRS  
823 - 829 LRFRSGS

>DACT3\_HUMAN|Q96B18 : USER001  
614 - 620 KILRFRS  
616 - 622 LRFRSGS

>DAG1\_HUMAN|Q14118 : USER001  
606 - 612 ARFKAKF

>DAK\_HUMAN|Q3LXA3 : USER001  
91 - 97 AAIRAVA  
564 - 570 AILRAIL

>DAND5\_HUMAN|Q8N907 : USER001  
116 - 122 SAIRLRN

>DAPK1\_HUMAN|P53355 : USER001  
347 - 353 AIIHAIN  
1060 - 1066 HHYRGRY

>DAPK2\_HUMAN|Q9UIK4 : USER001  
76 - 82 SILRQVL  
334 - 340 KKVHLRP

>DAPK3\_HUMAN|O43293 : USER001  
276 - 282 KAIRRRN

>DAPLE\_HUMAN|Q9P219 : USER001

1325 - 1331 SRLKGNL  
>DAXX\_HUMAN|Q9UER7 : USER001  
226 - 232 ARLKRKL  
>DAZ1\_HUMAN|Q9NQZ3 : USER001  
106 - 112 KKLKLG  
271 - 277 KKLKLG  
436 - 442 KKLKLG  
>DAZ2\_HUMAN|Q13117 : USER001  
106 - 112 KKLKLG  
>DAZ3\_HUMAN|Q9NR90 : USER001  
106 - 112 KKLKLG  
>DAZ4\_HUMAN|Q86SG3 : USER001  
106 - 112 KKLKLG  
271 - 277 KKLKLG  
>DAZL\_HUMAN|Q92904 : USER001  
106 - 112 KKLKLG  
>DBF4B\_HUMAN|Q8NFT6 : USER001  
20 - 26 SRLRAPD  
224 - 230 ARLKAPF  
311 - 317 LHVHLQS  
>DBLOH\_HUMAN|Q9NR28 : USER001  
2 - 8 AALKSWL  
>DBP\_HUMAN|Q10586 : USER001  
309 - 315 SHYRAVL  
>DBR1\_HUMAN|Q9UK59 : USER001  
149 - 155 SIYHVRN  
159 - 165 YKLGKQLK  
225 - 231 AHLHVKF  
227 - 233 LHVKFAA  
523 - 529 KLIKRRN  
>DBX1\_HUMAN|A6NMT0 : USER001  
289 - 295 LAYHASS  
>DCA15\_HUMAN|Q66K64 : USER001  
105 - 111 YIYHLYW  
>DCBD1\_HUMAN|Q8N8Z6 : USER001  
80 - 86 LILRLGD  
>DCC\_HUMAN|P43146 : USER001  
658 - 664 YKIRHRK  
>DCD2B\_HUMAN|A2VCK2 : USER001  
51 - 57 LAVRALY  
>DCG13\_HUMAN|Q49AH7 : USER001  
205 - 211 AKVRQLD  
>DCHS\_HUMAN|P19113 : USER001

411 - 417 FRLKGPN  
>DCK\_HUMAN|P27707 : USER001  
103 - 109 SRIRAQL  
>DCLK1\_HUMAN|O15075 : USER001  
438 - 444 SILRRVK  
707 - 713 SRYKAQP  
>DCLK2\_HUMAN|Q8N568 : USER001  
442 - 448 SILRRVK  
>DCNL4\_HUMAN|Q92564 : USER001  
242 - 248 SKYKVIN  
>DCP1A\_HUMAN|Q9NPI6 : USER001  
14 - 20 AALKQHD  
>DCPS\_HUMAN|Q96C86 : USER001  
274 - 280 YHLHVHF  
>DCTN1\_HUMAN|Q14203 : USER001  
129 - 135 SKLRGLK  
>DCTN2\_HUMAN|Q13561 : USER001  
143 - 149 AALKQQL  
307 - 313 SKVHQLY  
>DCTN3\_HUMAN|O75935 : USER001  
114 - 120 AHIKAVP  
>DCTN4\_HUMAN|Q9UJW0 : USER001  
18 - 24 KKVRAPL  
>DCXR\_HUMAN|Q7Z4W1 : USER001  
170 - 176 HKIRVNA  
>DCX\_HUMAN|O43602 : USER001  
235 - 241 KAVRVLL  
>DD19A\_HUMAN|Q9NUU7 : USER001  
195 - 201 YAVRGNK  
225 - 231 SKLKFID  
>DD19B\_HUMAN|Q9UMR2 : USER001  
196 - 202 YAVRGNK  
226 - 232 SKLKFID  
>DDAH1\_HUMAN|O94760 : USER001  
28 - 34 HALRSAK  
>DDC\_HUMAN|P20711 : USER001  
411 - 417 FRLKGSN  
431 - 437 KKIHLVP  
>DDEF2\_HUMAN|O43150 : USER001  
591 - 597 LAVRSVD  
947 - 953 KRVKALY  
>DDFL1\_HUMAN|Q8TDY4 : USER001  
57 - 63 KAVRAIH



592 - 598 LAVKVAN  
>DDHD1\_HUMAN|Q8NEL9 : USER001  
671 - 677 LILKHYS  
>DDX10\_HUMAN|Q13206 : USER001  
636 - 642 LKVKRHN  
742 - 748 KKIKAKH  
>DDX11\_HUMAN|Q96FC9 : USER001  
431 - 437 KRLKAKN  
>DDX12\_HUMAN|Q92771 : USER001  
450 - 456 KRLKAKN  
>DDX17\_HUMAN|Q92841 : USER001  
92 - 98 FAFHHAN  
>DDX18\_HUMAN|Q9NVP1 : USER001  
18 - 24 LKLRQRN  
240 - 246 LIVKLRP  
653 - 659 KIFKHIS  
>DDX1\_HUMAN|Q92499 : USER001  
265 - 271 YIVKSQH  
496 - 502 YAVRAIK  
>DDX20\_HUMAN|Q9UHI6 : USER001  
353 - 359 AKLKHFH  
581 - 587 FKIHQPY  
>DDX21\_HUMAN|Q9NR30 : USER001  
592 - 598 SHFKQSA  
>DDX24\_HUMAN|Q9GZR7 : USER001  
97 - 103 KKIKLKK  
455 - 461 KHYHLRN  
>DDX25\_HUMAN|Q9UHL0 : USER001  
231 - 237 FKLKLID  
>DDX27\_HUMAN|Q9BXF0 : USER001  
334 - 340 AALRAAP  
673 - 679 LALRGKK  
790 - 796 SRYKRRK  
>DDX28\_HUMAN|Q9NUL7 : USER001  
268 - 274 KALKSRL  
370 - 376 LRLKGAD  
383 - 389 HILKHRD  
>DDX31\_HUMAN|Q96SX5 : USER001  
731 - 737 HIFHVRS  
733 - 739 FHVRSRH  
766 - 772 AHVKRPD  
>DDX3X\_HUMAN|O00571 : USER001  
578 - 584 HHYKGSS

>DDX3Y\_HUMAN|O15523 : USER001  
576 - 582 HHYKGGG

>DDX41\_HUMAN|Q9UJV9 : USER001  
191 - 197 AILRGLK

>DDX42\_HUMAN|Q86XP3 : USER001  
641 - 647 SRFKGGK

>DDX43\_HUMAN|Q9NXZ2 : USER001  
72 - 78 FALKSHF

>DDX47\_HUMAN|Q9H0S4 : USER001  
190 - 196 KILKVIP

>DDX49\_HUMAN|Q9Y6V7 : USER001  
434 - 440 AKIKQKN

>DDX55\_HUMAN|Q8NHQ9 : USER001  
439 - 445 LIFRLKD

>DDX56\_HUMAN|Q9NY93 : USER001  
272 - 278 YRLRLFL

>DDX59\_HUMAN|Q5T1V6 : USER001  
7 - 13 LKIKRNA

>DDX60\_HUMAN|Q8IY21 : USER001  
107 - 113 LILHLQK  
161 - 167 LIIHSWA  
354 - 360 FILRNIH  
972 - 978 YKVRLVL

>DDX6L\_HUMAN|Q5H9U9 : USER001  
107 - 113 LILHLQH  
658 - 664 KRIHSLI  
1070 - 1076 KKVKRVL

>DEFI8\_HUMAN|Q6ZN54 : USER001  
8 - 14 ARFRQAH

>DEF\_HUMAN|Q68CQ4 : USER001  
317 - 323 HILKANA

>DEGS2\_HUMAN|Q6QHC5 : USER001  
310 - 316 ARVKRVY

>DEN1A\_HUMAN|Q8TEH3 : USER001  
3 - 9 SRIKQNP  
344 - 350 SHYRSGA

>DEN1B\_HUMAN|Q6P3S1 : USER001  
309 - 315 SALKNKL

>DEN1C\_HUMAN|Q8IV53 : USER001  
313 - 319 LRLRLRK

>DEN2A\_HUMAN|Q9ULE3 : USER001  
498 - 504 KRVKRLS  
541 - 547 SRLKQAP

>DEN2C\_HUMAN|Q68D51 : USER001  
346 - 352 SAFKAPK  
425 - 431 KKVKLHS

>DEN4B\_HUMAN|O75064 : USER001  
1453 - 1459 KKYKSAF

>DEN4C\_HUMAN|Q9H6N4 : USER001  
602 - 608 LAVRVLF  
747 - 753 SIVKVPS

>DEND3\_HUMAN|A2RUS2 : USER001  
639 - 645 KKFCLPK  
667 - 673 SIIHRLF  
782 - 788 LKIRVAS

>DEP1A\_HUMAN|Q5TB30 : USER001  
136 - 142 SIFKLRN  
138 - 144 FKLRLNS  
742 - 748 LKVRNVD

>DEP1B\_HUMAN|Q8WUY9 : USER001  
216 - 222 FIIHNVY

>DEPD5\_HUMAN|Q6PEZ1 : USER001  
380 - 386 FKLHNRS  
1050 - 1056 AAVHGGK

>DEPD6\_HUMAN|Q8TB45 : USER001  
274 - 280 SAVRRSS

>DEPD7\_HUMAN|Q96QD5 : USER001  
14 - 20 SALHSPA  
57 - 63 HRLKRHN

>DERL2\_HUMAN|Q9GZP9 : USER001  
203 - 209 SILKAIF

>DESP\_HUMAN|P15924 : USER001  
1193 - 1199 AKVRNHY  
1349 - 1355 SKVRNNY

>DFFB\_HUMAN|O76075 : USER001  
162 - 168 SRIRSYL

>DGAT2\_HUMAN|Q96PD7 : USER001  
265 - 271 LALRHGA

>DGC14\_HUMAN|Q96DF8 : USER001  
216 - 222 WKYKAKN

>DGKB\_HUMAN|Q9Y6T7 : USER001  
247 - 253 WRLKHFN

>DGKI\_HUMAN|O75912 : USER001  
323 - 329 WIKVKK  
724 - 730 LRIRVNK

>DGKK\_HUMAN|Q5KSL6 : USER001

658 - 664 KILKAKY  
1217 - 1223 LKIKFPK  
>DGKQ\_HUMAN|P52824 : USER001  
331 - 337 AALRAHH  
>DGLB\_HUMAN|Q8NCG7 : USER001  
294 - 300 YIYRNPL  
>DGUOK\_HUMAN|Q16854 : USER001  
9 - 15 SRLRAPF  
117 - 123 SRLKVQL  
>DHB11\_HUMAN|Q8NBQ5 : USER001  
57 - 63 AKLKSKL  
>DHB1\_HUMAN|P14061 : USER001  
19 - 25 LAVRLAS  
>DHB4\_HUMAN|P51659 : USER001  
255 - 261 AIVRQKN  
554 - 560 SRFKAIK  
557 - 563 KAIKARF  
>DHCR7\_HUMAN|Q9UBM7 : USER001  
349 - 355 YIFRVAN  
>DHR11\_HUMAN|Q6UWP2 : USER001  
82 - 88 SAIRSQH  
205 - 211 FAFKLHD  
>DHRS7\_HUMAN|Q9Y394 : USER001  
208 - 214 HALRGFF  
>DHRSX\_HUMAN|Q8N5I4 : USER001  
9 - 15 AALRVYA  
>DHSA\_HUMAN|P31040 : USER001  
245 - 251 HRIRAKN  
>DHTK1\_HUMAN|Q96HY7 : USER001  
450 - 456 KIIRARK  
851 - 857 SKYKHVK  
>DHX15\_HUMAN|O43143 : USER001  
632 - 638 HAFKQNH  
>DHX16\_HUMAN|O60231 : USER001  
62 - 68 FALRLWN  
>DHX30\_HUMAN|Q7L2E3 : USER001  
137 - 143 AKYRVLA  
790 - 796 FAYHLFP  
>DHX32\_HUMAN|Q9NV74 : USER001  
126 - 132 LALRVAD  
258 - 264 SILRLIF  
>DHX36\_HUMAN|Q9H2U1 : USER001  
155 - 161 FRIRNRS

844 - 850 AKIRLNL  
>DHX57\_HUMAN|Q6P158 : USER001  
805 - 811 ARYKGVS  
1036 - 1042 SKIRLRD  
1091 - 1097 LAFKSPF  
>DHX58\_HUMAN|Q96C10 : USER001  
282 - 288 LHLRRYN  
>DHX8\_HUMAN|Q14562 : USER001  
220 - 226 SRYRSRS  
463 - 469 KIVKNPD  
>DI3L1\_HUMAN|Q8TF46 : USER001  
584 - 590 SAYKLFY  
>DI3L2\_HUMAN|Q8IYB7 : USER001  
595 - 601 HKIHRAF  
800 - 806 LALRSHH  
>DIAC\_HUMAN|Q01459 : USER001  
31 - 37 LALRLAA  
>DIAP2\_HUMAN|O60879 : USER001  
345 - 351 FRIHLRN  
467 - 473 FKYRQRL  
>DICER\_HUMAN|Q9UPY3 : USER001  
218 - 224 KILKSNA  
1665 - 1671 YRFKNKA  
>DIM1L\_HUMAN|Q9UNQ2 : USER001  
37 - 43 HILKNPL  
159 - 165 FALRLVA  
240 - 246 AAFKSSA  
>DIP2A\_HUMAN|Q14689 : USER001  
473 - 479 AAFKGWP  
>DIRA3\_HUMAN|O95661 : USER001  
15 - 21 KRLRLLP  
24 - 30 LILRAFK  
>DIRC2\_HUMAN|Q96SL1 : USER001  
141 - 147 LILKRRL  
>DISC1\_HUMAN|Q9NRI4 : USER001  
353 - 359 LRLKLQK  
414 - 420 AALRRGA  
>DISP1\_HUMAN|Q96F81 : USER001  
328 - 334 SRIRSHP  
>DISP2\_HUMAN|A7MBM2 : USER001  
670 - 676 LALHRRL  
>DIXC1\_HUMAN|Q155Q3 : USER001  
178 - 184 FRYRQRN

640 - 646 HRYHFKA  
642 - 648 YHFKALD  
>DJB11\_HUMAN|Q9UBS4 : USER001  
241 - 247 FRIKVVK  
>DJB12\_HUMAN|Q9NXW2 : USER001  
100 - 106 AAVKRVK  
128 - 134 KAYRRLA  
133 - 139 LALKFHP  
>DJB13\_HUMAN|P59910 : USER001  
27 - 33 LALKHHP  
>DJB14\_HUMAN|Q8TBM8 : USER001  
131 - 137 LALKFHP  
>DJC10\_HUMAN|Q96K38 : USER001  
58 - 64 LALKLHP  
645 - 651 YHYHSYN  
>DJC12\_HUMAN|Q9UKB3 : USER001  
175 - 181 WHLRFRW  
>DJC14\_HUMAN|Q6Y2X3 : USER001  
461 - 467 KAYRQLA  
694 - 700 KKVRRPF  
>DJC16\_HUMAN|Q9Y2G8 : USER001  
110 - 116 YRFRHFH  
527 - 533 SIFHNNW  
>DJC17\_HUMAN|Q9NVM6 : USER001  
29 - 35 KAYRQKA  
>DJC18\_HUMAN|Q9H819 : USER001  
105 - 111 LALKFHP  
285 - 291 KAYRGAS  
>DKC1\_HUMAN|O60832 : USER001  
188 - 194 AAVKRQL  
>DLG2\_HUMAN|Q15700 : USER001  
380 - 386 SHYHLGL  
>DLG4\_HUMAN|P78352 : USER001  
500 - 506 SRLKAKD  
>DLG7\_HUMAN|Q15398 : USER001  
299 - 305 AKIKGKN  
>DLGP3\_HUMAN|O95886 : USER001  
669 - 675 ARFKRSN  
>DLGP4\_HUMAN|Q9Y2H0 : USER001  
900 - 906 YHLKANS  
>DLL4\_HUMAN|Q9NR61 : USER001  
555 - 561 LRLRRPD  
>DLRB1\_HUMAN|Q9NP97 : USER001

49 - 55 FILKARS

69 - 75 LRIRSKK

>DLRB2\_HUMAN|Q8TF09 : USER001

69 - 75 LRIRSKK

>DMBT1\_HUMAN|Q9Y211 : USER001

100 - 106 LALRLVN

232 - 238 LALRLVN

361 - 367 LALRLVN

492 - 498 LALRLVN

600 - 606 LALRLVN

860 - 866 LALRLVN

991 - 997 LALRLVN

1120 - 1126 LALRLVN

1249 - 1255 LALRLVN

1378 - 1384 LALRLVN

1507 - 1513 LALRLVN

1638 - 1644 LALRLVN

2340 - 2346 ARFRFRA

2342 - 2348 FRFRAFH

>DMD\_HUMAN|P11532 : USER001

2808 - 2814 KRLHLSL

3324 - 3330 FRYRSLK

3591 - 3597 HRLRQLL

>DMRT3\_HUMAN|Q9NQL9 : USER001

332 - 338 SAFRVPD

>DMRTA\_HUMAN|Q5VZB9 : USER001

107 - 113 SALKGHK

>DMRTB\_HUMAN|Q96MA1 : USER001

290 - 296 SALHFLP

>DMRTD\_HUMAN|Q8IXT2 : USER001

52 - 58 AHLKGHK

>DMXL1\_HUMAN|Q9Y485 : USER001

636 - 642 HRFHLND

887 - 893 LHLKSIP

1576 - 1582 WAFHSVA

1680 - 1686 AALKNAF

1739 - 1745 AAYKSIL

2566 - 2572 AILRHKA

>DMXL2\_HUMAN|Q8TDJ6 : USER001

649 - 655 HRFHLND

697 - 703 KHIKGSS

910 - 916 WHLHLKS

1276 - 1282 HAVKFGD

1707 - 1713 AALKNAF

2517 - 2523 LALHNVK

2586 - 2592 AILRNKA

2943 - 2949 SAIKALA

>DNAS1\_HUMAN|P24855 : USER001

136 - 142 AIVRFFS

>DNC\_HUMAN|Q9HC21 : USER001

57 - 63 AKYHGIL

>DNHD1\_HUMAN|Q96M86 : USER001

48 - 54 LKIRALD

>DNHD2\_HUMAN|Q6ZR08 : USER001

233 - 239 SAIKVLD

>DNJ5B\_HUMAN|Q9UF47 : USER001

42 - 48 LALKHHP

>DNJB2\_HUMAN|P25686 : USER001

21 - 27 KAYRRKA

>DNJB5\_HUMAN|O75953 : USER001

325 - 331 FKVRFPD

>DNJB8\_HUMAN|Q8NHS0 : USER001

44 - 50 KKFKLVS

>DNJC3\_HUMAN|Q13217 : USER001

260 - 266 AHYKQVK

497 - 503 FRFKFHF

>DNJC7\_HUMAN|Q99615 : USER001

254 - 260 KALKAKK

>DNJC8\_HUMAN|O75937 : USER001

75 - 81 KRFRQLS

105 - 111 KAYKLLL

>DNJCD\_HUMAN|O75165 : USER001

177 - 183 SRLHLFA

357 - 363 LHLRFLA

461 - 467 KALKRSN

2068 - 2074 SAIRVIH

>DNL3\_HUMAN|P49916 : USER001

866 - 872 SRLRRYF

>DNL4\_HUMAN|P49917 : USER001

845 - 851 LRFHGAK

>DNM1L\_HUMAN|O00429 : USER001

169 - 175 LILRFIS

>DNM3B\_HUMAN|Q9UBC3 : USER001

309 - 315 ARVRAGK

>DNMBP\_HUMAN|Q6XZF7 : USER001

572 - 578 KILRHFS



>DNMT1\_HUMAN|P26358 : USER001  
80 - 86 AKVKSL  
830 - 836 SKVKVIY  
1241 - 1247 SKFKNSL

>DNPEP\_HUMAN|Q9ULA0 : USER001  
100 - 106 LRVKRRS

>DNSL2\_HUMAN|Q92874 : USER001  
218 - 224 AAIRLRS  
255 - 261 ARLRRSL

>DOC10\_HUMAN|Q96BY6 : USER001  
1599 - 1605 SIVRSHL  
1704 - 1710 AKIHARN

>DOC11\_HUMAN|Q5JSL3 : USER001  
811 - 817 LKIKSHL  
943 - 949 AILKQSA  
1626 - 1632 AKIHVKN

>DOC2A\_HUMAN|Q14183 : USER001  
227 - 233 AALRGIS

>DOCK1\_HUMAN|Q14185 : USER001  
1076 - 1082 HKIKFIP

>DOCK3\_HUMAN|Q8IZD9 : USER001  
311 - 317 LHYRRPY  
861 - 867 HHIHLHL  
865 - 871 LHLRQQK  
1087 - 1093 HKIHFIP

>DOCK4\_HUMAN|Q8N1I0 : USER001  
46 - 52 FALKNPN  
652 - 658 SKFHHFK  
1058 - 1064 HKLHFIP  
1209 - 1215 LHLKAQN

>DOCK5\_HUMAN|Q9H7D0 : USER001  
719 - 725 YIYKHFS  
755 - 761 AALKALK  
1097 - 1103 HKIKFIP  
1316 - 1322 KAIKLSK  
1730 - 1736 SKFKRKD

>DOCK6\_HUMAN|Q96HP0 : USER001  
570 - 576 LAVRVQY  
619 - 625 FKLHLPA  
762 - 768 AALRLAS  
1019 - 1025 AHYKQVA  
1137 - 1143 SAVHSL  
1724 - 1730 AAVHGKL

>DOCK8\_HUMAN|Q9BYJ5 : USER001  
1187 - 1193 SAIHSLL

>DOCK9\_HUMAN|Q9BZ28 : USER001  
334 - 340 SRVKLFY  
1413 - 1419 LAFKNQL  
1459 - 1465 LIYKFPS  
1622 - 1628 ARIHVKN

>DOHH\_HUMAN|Q9BU89 : USER001  
23 - 29 ARFRALF

>DOP1\_HUMAN|Q5JWR5 : USER001  
272 - 278 AALHVVL  
1386 - 1392 SAIKAIL  
1777 - 1783 SILHQAD

>DOP2\_HUMAN|Q9Y3R5 : USER001  
12 - 18 YRYRSYS

>DOPO\_HUMAN|P09172 : USER001  
355 - 361 AKLRRFN

>DOXA1\_HUMAN|Q1HG43 : USER001  
277 - 283 HRLKAFF

>DP13A\_HUMAN|Q9UKG1 : USER001  
496 - 502 SILHQLF

>DPH1\_HUMAN|Q9BZG8 : USER001  
49 - 55 AAIRVLP

>DPH3B\_HUMAN|Q9H4G8 : USER001  
53 - 59 LIIKVIY

>DPH3\_HUMAN|Q96FX2 : USER001  
53 - 59 LIIKVIY

>DPOD1\_HUMAN|P28340 : USER001  
691 - 697 LALKVSA

>DPOD2\_HUMAN|P49005 : USER001  
369 - 375 LRVRHIS

>DPOE1\_HUMAN|Q07864 : USER001  
92 - 98 SRFKVAL  
236 - 242 LKIHVAH  
376 - 382 AAVHGLS

>DPOE2\_HUMAN|P56282 : USER001  
14 - 20 FKLRLGLL  
467 - 473 YALRVYP

>DPOG1\_HUMAN|P54098 : USER001  
1164 - 1170 FAYKLGL

>DPOG2\_HUMAN|Q9UHN1 : USER001  
143 - 149 SAFRLVS  
320 - 326 SKLHGRD

>DPOLA\_HUMAN|P09884 : USER001  
1246 - 1252 FRVHHYH

>DPOLB\_HUMAN|P06746 : USER001  
51 - 57 HKIKSGA

>DPOLN\_HUMAN|Q7Z5Q5 : USER001  
492 - 498 LKLHLLS

>DPOLQ\_HUMAN|O75417 : USER001  
156 - 162 SIFRARK  
1044 - 1050 SRFKQAS

>DPOLZ\_HUMAN|O60673 : USER001  
52 - 58 LHLHGIF  
178 - 184 AAVKFRK  
828 - 834 SRLKLNK  
2522 - 2528 SRVRGNL

>DPP10\_HUMAN|Q8N608 : USER001  
765 - 771 SKYHLYS

>DPP4\_HUMAN|P27487 : USER001  
53 - 59 YRLKLYS

>DPP8\_HUMAN|Q9HBM3 : USER001  
489 - 495 SKYKRSS

>DPP9\_HUMAN|Q96NT8 : USER001  
801 - 807 LILHGFL

>DPPA2\_HUMAN|Q7Z7J5 : USER001  
120 - 126 LRLHRHA

>DPYL2\_HUMAN|Q16555 : USER001  
480 - 486 KRIKARS

>DPYL4\_HUMAN|O14531 : USER001  
480 - 486 KRIKARN

>DPYL5\_HUMAN|Q9BPU6 : USER001  
482 - 488 LKVVRGVD

>DPYS\_HUMAN|Q14117 : USER001  
471 - 477 YIYKRIK  
474 - 480 KRIKQRD

>DQX1\_HUMAN|Q8TE96 : USER001  
111 - 117 LALRVAD  
513 - 519 AALRRAL

>DRD1\_HUMAN|P21728 : USER001  
234 - 240 AAVHAKN

>DRD2\_HUMAN|P14416 : USER001  
234 - 240 AHLRAPL

>DRD4\_HUMAN|P21917 : USER001  
228 - 234 AKLHGRA

>DRD5\_HUMAN|P21918 : USER001

64 - 70 AIVRSRH

>DRG1\_HUMAN|Q9Y295 : USER001

212 - 218 YKIHNAD

>DRG2\_HUMAN|P55039 : USER001

35 - 41 AKYRAQL

320 - 326 HRIHRSL

>DRP2\_HUMAN|Q13474 : USER001

618 - 624 FRYRSLK

>DSC2\_HUMAN|Q02487 : USER001

321 - 327 LKIKVQD

623 - 629 WRLKAIN

>DSCAM\_HUMAN|O60469 : USER001

684 - 690 LIVRVPP

>DSCL1\_HUMAN|Q8TD84 : USER001

684 - 690 LIVRVPP

1451 - 1457 YKVKLAA

>DSCR3\_HUMAN|O14972 : USER001

97 - 103 LHLKGNK

139 - 145 FIVHSAP

>DSCR9\_HUMAN|P59020 : USER001

47 - 53 AAYRRAH

>DSEL\_HUMAN|Q8IZU8 : USER001

350 - 356 FILKNGA

>DSE\_HUMAN|Q9UL01 : USER001

814 - 820 KRYKFVD

834 - 840 KKIRQKA

>DSG1\_HUMAN|Q02413 : USER001

143 - 149 LRVRVLD

235 - 241 LAVRGSD

365 - 371 YKLGASA

>DSG2\_HUMAN|Q14126 : USER001

145 - 151 LRIKVLD

703 - 709 SIVKGQH

>DSG3\_HUMAN|P32926 : USER001

361 - 367 SRYRVQS

>DTBP1\_HUMAN|Q96EV8 : USER001

30 - 36 AKVKSKP

60 - 66 AALHARRA

>DTX3\_HUMAN|Q8N9I9 : USER001

80 - 86 KALKGLL

>DULRD\_HUMAN|O95476 : USER001

150 - 156 SILKRRY

>DUOX1\_HUMAN|Q9NRD9 : USER001

253 - 259 FRYHNLW  
1211 - 1217 HHFRRRS  
1235 - 1241 LIIHGSF  
>DUOX2\_HUMAN|Q9NRD8 : USER001  
259 - 265 FRYHNLW  
1208 - 1214 HHFRRRS  
1232 - 1238 LIIHGSY  
>DUS16\_HUMAN|Q9BY84 : USER001  
309 - 315 SKLKLLH  
>DUS27\_HUMAN|Q5VZP5 : USER001  
592 - 598 WKLKHQK  
>DUS2\_HUMAN|Q05923 : USER001  
217 - 223 FRYKSIP  
>DUS4\_HUMAN|Q13115 : USER001  
95 - 101 ARLRSL  
>DUS5\_HUMAN|Q16690 : USER001  
190 - 196 SAYHASK  
>DUS6\_HUMAN|Q16828 : USER001  
253 - 259 FKYKQIP  
>DUS9\_HUMAN|Q99956 : USER001  
250 - 256 FHYKQIP  
>DVL1L\_HUMAN|P54792 : USER001  
43 - 49 HAYKFFF  
>DVL1\_HUMAN|O14640 : USER001  
43 - 49 HAYKFFF  
>DX26B\_HUMAN|Q5JSJ4 : USER001  
36 - 42 LKLRARD  
>DY12L\_HUMAN|Q6ZTR8 : USER001  
41 - 47 LKYRRSK  
398 - 404 AAVHRNL  
>DYH10\_HUMAN|Q8IVF4 : USER001  
4418 - 4424 HRLKLQN  
>DYH11\_HUMAN|Q96DT5 : USER001  
2446 - 2452 KAVKFPS  
2681 - 2687 SILRSGP  
2980 - 2986 ARVRLQL  
2999 - 3005 LRVRARK  
3836 - 3842 SAIKAI  
>DYH12\_HUMAN|Q8WXK2 : USER001  
41 - 47 LKYRRSK  
221 - 227 AAVHRNL  
2879 - 2885 SKLKAVL  
>DYH14\_HUMAN|Q0VDD8 : USER001

495 - 501 SKLHAIS

2800 - 2806 SIFKVVS

>DYH1\_HUMAN|Q9H8E6 : USER001

412 - 418 SKIKQWA

1185 - 1191 YILKSPD

1415 - 1421 KAIRAYP

2554 - 2560 AKLKLVL

2725 - 2731 ARLRQFP

3044 - 3050 HKYHFVA

>DYH2\_HUMAN|Q9P225 : USER001

305 - 311 SILHLAK

717 - 723 WALKGAS

1018 - 1024 SHLKFSL

3430 - 3436 HAIHFGY

>DYH3\_HUMAN|Q9UG35 : USER001

738 - 744 FKLRRQL

1718 - 1724 SAYKVLA

3606 - 3612 ARFRLWL

>DYH5\_HUMAN|Q8TE73 : USER001

869 - 875 LHFKSSL

983 - 989 KRIHSSH

3076 - 3082 SRVRQNL

3675 - 3681 FKVKVGD

3950 - 3956 SKLRQFS

>DYH6\_HUMAN|Q9H030 : USER001

886 - 892 LCLKQLL

2566 - 2572 SKVRQKL

>DYH7\_HUMAN|Q8N1Z2 : USER001

290 - 296 KKLRLVD

1052 - 1058 LILKGLN

1617 - 1623 SAYRVLA

2813 - 2819 KKIKLAA

3808 - 3814 KAIKGLA

>DYH8\_HUMAN|Q96JB1 : USER001

3540 - 3546 FKVKVGD

4270 - 4276 SILRSSL

4478 - 4484 WILRGVA

>DYH9\_HUMAN|Q9NYC9 : USER001

542 - 548 HAFKLLD

2962 - 2968 LRVRSRK

3395 - 3401 KKYRQSL

>DYHC1\_HUMAN|Q14204 : USER001

733 - 739 LCLKVNF

1375 - 1381 ARLRQYA

1418 - 1424 KRLHVNW

2380 - 2386 ARLRSIP

2607 - 2613 SALRALP

2895 - 2901 ARLKVFY

3315 - 3321 AAVKLAL

3625 - 3631 SALRFGN

>DYHC2\_HUMAN|Q8N977 : USER001

1941 - 1947 AALKQVF

3316 - 3322 LAVRFGK

>DYN1\_HUMAN|Q05193 : USER001

390 - 396 YAIKNIH

>DYN2\_HUMAN|P50570 : USER001

390 - 396 YAIKNIH

>DYN3\_HUMAN|Q9NQN6 : USER001

390 - 396 YAIKNIH

>DYR1A\_HUMAN|Q13627 : USER001

188 - 194 KIIKNKK

>DYR1B\_HUMAN|Q9Y463 : USER001

140 - 146 KIIKNKK

>DYRK2\_HUMAN|Q92630 : USER001

257 - 263 KRFHRQA

>DYRK3\_HUMAN|O43781 : USER001

244 - 250 KRFHRQA

>DYRK4\_HUMAN|Q9NR20 : USER001

133 - 139 KIIRNKK

139 - 145 KRFHQQA

>DYSF\_HUMAN|O75923 : USER001

756 - 762 LALKLGH

777 - 783 LRLRALA

>DYTN\_HUMAN|A2CJ06 : USER001

124 - 130 SKYRALF

>DYXC1\_HUMAN|Q8WXU2 : USER001

315 - 321 LAIRLNN

335 - 341 LKLKNLH

>DZIP1\_HUMAN|Q86YF9 : USER001

264 - 270 SAVRFSK

529 - 535 KALKSNS

>DZIP3\_HUMAN|Q96RS9 : USER001

293 - 299 KKFKNLK

>E2AK1\_HUMAN|Q9BQI3 : USER001

182 - 188 YKVRNKL

>E2AK3\_HUMAN|Q9NZJ5 : USER001

537 - 543 FIVRRLF

621 - 627 KRIRLPN

>E2AK4\_HUMAN|Q9P2K8 : USER001

126 - 132 LAYHVQS

224 - 230 AILHGGS

616 - 622 YAVKRIP

1460 - 1466 SHVKVKS

>E2F3\_HUMAN|O00716 : USER001

159 - 165 AALRSPD

>E2F4\_HUMAN|Q16254 : USER001

155 - 161 LAIRAPS

>E41L5\_HUMAN|Q9HCM4 : USER001

116 - 122 LHLRVKF

118 - 124 LRVKFYS

>E41LB\_HUMAN|Q9H329 : USER001

144 - 150 LHFRVKY

>EBI2\_HUMAN|P32249 : USER001

266 - 272 KKLRFNS

329 - 335 SAVKSAP

>ECE1\_HUMAN|Q9UPF4 : USER001

158 - 164 AIIKHLL

>ECE2\_HUMAN|O60344 : USER001

271 - 277 AILKHLL

>ECHB\_HUMAN|P55084 : USER001

200 - 206 SKFRFNF

244 - 250 YALRSHS

>ECHD1\_HUMAN|Q9NTX5 : USER001

102 - 108 LIVRGAK

178 - 184 SKIRFVH

>ECHM\_HUMAN|P30084 : USER001

2 - 8 AALRVLL

>ECM29\_HUMAN|Q5VYK3 : USER001

67 - 73 KRIKSRP

>ECM2\_HUMAN|O94769 : USER001

32 - 38 KIYHRRL

387 - 393 KAFKLLK

>ECP\_HUMAN|P12724 : USER001

101 - 107 SRFRVPL

>EDC4\_HUMAN|Q6P2E9 : USER001

147 - 153 YAIRAAN

774 - 780 SALHLLS

856 - 862 LAFHRPP

>EDEM1\_HUMAN|Q92611 : USER001



267 - 273 LAVRLLP  
>EDF1\_HUMAN|O60869 : USER001  
130 - 136 LKLRGKD  
>EDN1\_HUMAN|P05305 : USER001  
45 - 51 WRLRRSK  
>EDNRB\_HUMAN|P24530 : USER001  
421 - 427 LKFKAND  
>EDRF1\_HUMAN|Q3B7T1 : USER001  
688 - 694 LILKSSK  
>EFC1\_HUMAN|P60507 : USER001  
408 - 414 AIVHFIS  
>EFC2\_HUMAN|P60608 : USER001  
284 - 290 AALRRPP  
>EFG2\_HUMAN|Q969S9 : USER001  
26 - 32 YKIRASL  
370 - 376 LAFKVLH  
397 - 403 LAIHNIN  
>EFHA2\_HUMAN|Q86XE3 : USER001  
2 - 8 AALRLL  
>EFHB\_HUMAN|Q8N7U6 : USER001  
547 - 553 AAVRHHL  
566 - 572 AAFRHYD  
>EFHC1\_HUMAN|Q5JVL4 : USER001  
115 - 121 YRIRQVN  
>EFNB2\_HUMAN|P52799 : USER001  
250 - 256 LKYRRRH  
>EFR1\_HUMAN|P60508 : USER001  
15 - 21 AAYRHPD  
>EFS\_HUMAN|O43281 : USER001  
520 - 526 LAVKGAA  
>EGFLA\_HUMAN|Q63HQ2 : USER001  
441 - 447 AIIRSL  
>EGFR\_HUMAN|Q9H2C9 : USER001  
885 - 891 SILHRIY  
>EGLN\_HUMAN|P17813 : USER001  
219 - 225 HILRVLP  
>EGR4\_HUMAN|Q05215 : USER001  
199 - 205 SAFKGPY  
>EH1L1\_HUMAN|Q8N3D4 : USER001  
430 - 436 SKVRHVD  
1074 - 1080 AILHRFY  
1288 - 1294 SRLRNSS  
>EHBP1\_HUMAN|Q9NWI9 : USER001

832 - 838 AALKAGN  
>EHD4\_HUMAN|Q9H223 : USER001  
208 - 214 KAFRGQD  
>EHMT1\_HUMAN|Q9H9B1 : USER001  
458 - 464 LRVKGIL  
702 - 708 KKLRFHP  
>EHMT2\_HUMAN|Q96KQ7 : USER001  
645 - 651 KKLRFHP  
>EI2BD\_HUMAN|Q9UI10 : USER001  
516 - 522 LRVKSSD  
>EI2BE\_HUMAN|Q13144 : USER001  
168 - 174 HRLRRKL  
>EID2\_HUMAN|Q8N6I1 : USER001  
140 - 146 LRLRHPL  
>EIF2A\_HUMAN|Q9BY44 : USER001  
535 - 541 KKIKNLK  
>EIF3C\_HUMAN|Q99613 : USER001  
572 - 578 HIYHHAL  
576 - 582 HALHSRW  
>EIF3D\_HUMAN|O15371 : USER001  
358 - 364 YRYRRWK  
453 - 459 SRYHVKD  
>EIF3X\_HUMAN|O75153 : USER001  
128 - 134 ARIHVRH  
381 - 387 AIFKVHS  
1141 - 1147 KALKVAL  
>EKI1\_HUMAN|Q9HBU6 : USER001  
225 - 231 AIFRLIA  
235 - 241 AKIHAIH  
238 - 244 HAIHAHN  
>ELK1\_HUMAN|P19419 : USER001  
117 - 123 AAIHAAP  
>ELL2\_HUMAN|O00472 : USER001  
214 - 220 LALKAYK  
>ELMD2\_HUMAN|Q8IZ81 : USER001  
224 - 230 LKFHLYN  
>ELMD3\_HUMAN|Q9H6Q8 : USER001  
37 - 43 LAFRGIP  
133 - 139 AALRHYL  
>ELMO2\_HUMAN|Q9NQQ6 : USER001  
497 - 503 SKLRSLS  
622 - 628 SALKQNK  
>ELN\_HUMAN|Q6ZWJ6 : USER001

101 - 107 AAYKAAK

>ELOA1\_HUMAN|Q14241 : USER001

763 - 769 KAFKNRF

>ELOV2\_HUMAN|Q9NXB9 : USER001

24 - 30 SRVRGWF

>ELOV5\_HUMAN|Q9NYP7 : USER001

108 - 114 KIIRVLW

>ELP1\_HUMAN|O95163 : USER001

1238 - 1244 HILKVLV

>ELP2\_HUMAN|Q6IA86 : USER001

111 - 117 YAVHAVY

137 - 143 SAVRLWS

359 - 365 HAFHGAL

>ELP4\_HUMAN|Q96EB1 : USER001

371 - 377 FKLKRKL

>EM55\_HUMAN|Q00013 : USER001

296 - 302 SHIKNAL

>EMAL1\_HUMAN|O00423 : USER001

549 - 555 LAIHASK

>EMAL3\_HUMAN|Q32P44 : USER001

427 - 433 SHVHFWN

>EMAL5\_HUMAN|Q05BV3 : USER001

172 - 178 KHIKFS

765 - 771 SILKGHH

939 - 945 YAIKRAA

>EMID2\_HUMAN|Q96A83 : USER001

402 - 408 AALRANL

>EMIL2\_HUMAN|Q9BXX0 : USER001

1010 - 1016 LIVHLKA

>EMR1\_HUMAN|Q14246 : USER001

774 - 780 WILRQRL

>EMR2\_HUMAN|Q9UHX3 : USER001

708 - 714 WILKNRL

>EMR3\_HUMAN|Q9BY15 : USER001

100 - 106 YRLHSGN

528 - 534 WILKRKL

>EMR4\_HUMAN|Q86SQ3 : USER001

361 - 367 WILRSKL

>ENC1\_HUMAN|O14682 : USER001

442 - 448 AKLKLFA

507 - 513 SAYKFNS

>ENH5\_HUMAN|P61549 : USER001

207 - 213 KKIRSNY

>ENO1B\_HUMAN|Q05524 : USER001  
5 - 11 KIIHARD  
296 - 302 HAVKNYP

>ENOX2\_HUMAN|Q16206 : USER001  
184 - 190 YRIRLGS

>ENPP1\_HUMAN|P22413 : USER001  
497 - 503 KRLHFAK

>ENPP3\_HUMAN|O14638 : USER001  
468 - 474 LAVRSKS

>ENPP7\_HUMAN|Q6UWV6 : USER001  
103 - 109 SKVKLPY

>ENSA\_HUMAN|O43768 : USER001  
35 - 41 AKLKAKY

>ENTD1\_HUMAN|Q8IYW4 : USER001  
184 - 190 KKYKLPK  
228 - 234 LKIHWGK  
466 - 472 AKLHHSF

>ENTP4\_HUMAN|Q9Y227 : USER001  
583 - 589 LRLRRIH

>ENTP7\_HUMAN|Q9NQZ7 : USER001  
570 - 576 LRLRRIH

>ENW1\_HUMAN|Q9UQF0 : USER001  
496 - 502 KIYRRPL

>EP15\_HUMAN|P42566 : USER001  
284 - 290 LAFHLIS

>EP300\_HUMAN|Q09472 : USER001  
2072 - 2078 SILHANP

>EP400\_HUMAN|Q96L91 : USER001  
864 - 870 SRLRRIA  
2017 - 2023 HIYRLVS  
2968 - 2974 LKLKQQA

>EPAG\_HUMAN|Q14236 : USER001  
52 - 58 LRYHGSS

>EPAS1\_HUMAN|Q99814 : USER001  
706 - 712 LKLKRQL

>EPB42\_HUMAN|P16452 : USER001  
637 - 643 YRFRSVW

>EPC1\_HUMAN|Q9H7T7 : USER001  
402 - 408 FAFRRKA  
787 - 793 SALKLAA

>EPC2\_HUMAN|Q52LR7 : USER001  
271 - 277 KRYHLGD

>EPHA1\_HUMAN|P21709 : USER001

930 - 936 YILHFHS

>EPHA3\_HUMAN|P29320 : USER001

579 - 585 KRLHFGN

>EPHA8\_HUMAN|P29322 : USER001

667 - 673 KALKAGY

>EPHB3\_HUMAN|P54753 : USER001

459 - 465 LRLHSSS

>EPHB6\_HUMAN|O15197 : USER001

88 - 94 AHIRLHF

>EPIPL\_HUMAN|P58107 : USER001

365 - 371 LALRLLD

2397 - 2403 SAVHQLS

2931 - 2937 SAVHQLS

3465 - 3471 SAVHQLS

3999 - 4005 SAVHQLS

4533 - 4539 SAVHQLS

>EPN4\_HUMAN|Q14677 : USER001

217 - 223 SKFRRKD

>EPS8\_HUMAN|Q12929 : USER001

568 - 574 WKVRNAS

>ERB1\_HUMAN|P60509 : USER001

320 - 326 AIVHRND

>ERBB2\_HUMAN|P04626 : USER001

893 - 899 SILRRRF

>ERC2\_HUMAN|O15083 : USER001

921 - 927 HHYHHHH

>ERCC1\_HUMAN|P07992 : USER001

143 - 149 LRYHNLH

164 - 170 FALRVLL

>ERCC2\_HUMAN|P18074 : USER001

342 - 348 WRLRVQH

>ERCC3\_HUMAN|P19447 : USER001

571 - 577 YAIRLNK

>ERCC4\_HUMAN|Q92889 : USER001

857 - 863 HHVKNIA

>ERCC5\_HUMAN|P28715 : USER001

389 - 395 SAIKRAL

>ERCC6\_HUMAN|Q03468 : USER001

649 - 655 HKIRNPN

>ERCC8\_HUMAN|Q13216 : USER001

209 - 215 SRVKLWD

>ERF\_HUMAN|P50548 : USER001

140 - 146 SHFRFPP

375 - 381 FKFKLQP  
482 - 488 LRFKRRW  
>ERG24\_HUMAN|O76062 : USER001  
302 - 308 YIFRGAN  
>ERG7\_HUMAN|P48449 : USER001  
244 - 250 YAVRLSA  
309 - 315 AHLRQRA  
>ERGI3\_HUMAN|Q9Y282 : USER001  
171 - 177 WAFKNPD  
225 - 231 SHVHVHD  
>ERIC1\_HUMAN|Q86X53 : USER001  
121 - 127 KKFKNPN  
>ERMAP\_HUMAN|Q96PL5 : USER001  
219 - 225 LCLKRAA  
233 - 239 ARLHFVA  
>ERMP1\_HUMAN|Q7Z2K6 : USER001  
392 - 398 SKYRHGN  
>ERN1\_HUMAN|O75460 : USER001  
677 - 683 AHLHSLN  
>ERN2\_HUMAN|Q76MJ5 : USER001  
625 - 631 AHLHSLH  
>ERO1A\_HUMAN|Q96HE7 : USER001  
378 - 384 FRLHFRN  
380 - 386 LHFRNIS  
>ERO1B\_HUMAN|Q86YB8 : USER001  
377 - 383 FRLHFKN  
379 - 385 LHFKNIS  
>ES8L2\_HUMAN|Q9H6S3 : USER001  
529 - 535 WKLRSRS  
>ESCO2\_HUMAN|Q56NI9 : USER001  
541 - 547 FRLKRRK  
>ESF1\_HUMAN|Q9H501 : USER001  
45 - 51 KKFKLNY  
580 - 586 AKYRQLL  
>ESIP1\_HUMAN|Q96J88 : USER001  
130 - 136 SKYKQKL  
>ESPB1\_HUMAN|Q96BH3 : USER001  
78 - 84 FIYRGKA  
>ESPL1\_HUMAN|Q14674 : USER001  
167 - 173 ARLKALS  
1075 - 1081 KKVHLQK  
1748 - 1754 LHLRSVL  
2034 - 2040 LAVHGNL

>ESPNL\_HUMAN|Q6ZVH7 : USER001  
207 - 213 SALHAAA

>ESR2\_HUMAN|Q9UEV6 : USER001  
463 - 469 SHVRHAS

>EST1A\_HUMAN|Q86US8 : USER001  
57 - 63 SRLRNKP  
707 - 713 LAIRSKP  
1146 - 1152 LAFKGGK

>EST2\_HUMAN|O00748 : USER001  
4 - 10 HRLRARL

>EST7\_HUMAN|Q6NT32 : USER001  
330 - 336 KAFKAIP

>ESYT3\_HUMAN|A0FGR9 : USER001  
527 - 533 LHLKVLD

>ETBR2\_HUMAN|O60883 : USER001  
333 - 339 WRVRGPP

>ETFB\_HUMAN|P38117 : USER001  
173 - 179 LRLKLPA

>ETFD\_HUMAN|Q16134 : USER001  
172 - 178 YIVRLGH

>ETUD1\_HUMAN|Q7Z2Z2 : USER001  
164 - 170 SHLKNIL  
1022 - 1028 FIIKAVL

>ETV1\_HUMAN|P50549 : USER001  
79 - 85 LAFHGLP  
184 - 190 HRFRRQL

>ETV3\_HUMAN|P41162 : USER001  
148 - 154 SRFHFPP  
474 - 480 LRLKRRW

>ETV6\_HUMAN|P41212 : USER001  
52 - 58 AHLRLQP  
102 - 108 FRYRSPH  
119 - 125 HILKQRK

>ETV7\_HUMAN|Q9Y604 : USER001  
251 - 257 KIFRVVD

>EURL\_HUMAN|Q9NYK6 : USER001  
262 - 268 LHVRHVA

>EVC\_HUMAN|P57679 : USER001  
644 - 650 SALRRLA  
649 - 655 LALRGNA

>EVI5\_HUMAN|O60447 : USER001  
8 - 14 AAFRNPS

>EVL\_HUMAN|Q9UI08 : USER001

64 - 70 SIVKGLK

>EVPL\_HUMAN|Q92817 : USER001

497 - 503 SRLKASA

690 - 696 LRLHRAL

1153 - 1159 SRLRSLL

>EWS\_HUMAN|Q01844 : USER001

438 - 444 SKLKVSL

>EXO1\_HUMAN|Q9UQ84 : USER001

720 - 726 SKLRLSH

>EXO3L\_HUMAN|Q86VI1 : USER001

340 - 346 WALHVYL

>EXOC2\_HUMAN|Q96KP1 : USER001

220 - 226 SAIHQKL

>EXOC5\_HUMAN|O00471 : USER001

220 - 226 LHFKGYS

>EXOC7\_HUMAN|Q9UPT5 : USER001

334 - 340 FRVKHLS

>EXOC8\_HUMAN|Q8IYI6 : USER001

11 - 17 SRLRRQL

541 - 547 FIIHALL

>EXOS6\_HUMAN|Q5RKV6 : USER001

90 - 96 AALRGRL

>EXOS7\_HUMAN|Q15024 : USER001

49 - 55 ARVKLGH

>EXOS8\_HUMAN|Q96B26 : USER001

91 - 97 SRFRSGP

>EXOSX\_HUMAN|Q01780 : USER001

360 - 366 AIVKVFH

>EXT1\_HUMAN|Q16394 : USER001

91 - 97 SIYKGKK

>EYA1\_HUMAN|Q99502 : USER001

436 - 442 FRYRRVK

481 - 487 LALKALS

>EYA2\_HUMAN|Q9H4S9 : USER001

382 - 388 FRYRRVK

>EYA4\_HUMAN|O95677 : USER001

483 - 489 FRYRRVK

628 - 634 LALHQAL

>EZH1\_HUMAN|Q92800 : USER001

61 - 67 KKL RVQP

>EZH2\_HUMAN|Q15910 : USER001

30 - 36 KRFRAD

>EZRI\_HUMAN|P15311 : USER001



78 - 84 FKFRAKF

>F109A\_HUMAN|Q8N4B1 : USER001

32 - 38 AAYHRRW

>F110A\_HUMAN|Q9BQ89 : USER001

149 - 155 SAVRRVD

>F110C\_HUMAN|Q1W6H9 : USER001

246 - 252 LKVRSVS

>F111A\_HUMAN|Q96PZ2 : USER001

522 - 528 KIVHNPD

>F113A\_HUMAN|Q9H1Q7 : USER001

231 - 237 LHFHFRH

>F1142\_HUMAN|Q9NRY5 : USER001

384 - 390 FAIRSLA

>F116A\_HUMAN|Q8IWF6 : USER001

116 - 122 FRFRQSS

387 - 393 KKLKNLK

559 - 565 LKLKNKL

>F117A\_HUMAN|Q9C073 : USER001

156 - 162 SKLKQQL

184 - 190 HAVRGAL

>F118A\_HUMAN|Q9NWS6 : USER001

188 - 194 LHIHGLY

>F118B\_HUMAN|Q9BPY3 : USER001

203 - 209 LHIHGVY

>F120A\_HUMAN|Q9NWB2 : USER001

646 - 652 AAYKGKS

>F120C\_HUMAN|Q9NX05 : USER001

276 - 282 HALKLSW

697 - 703 SAYKGKS

>F122A\_HUMAN|Q96E09 : USER001

83 - 89 SRLHQIK

>F123A\_HUMAN|Q8N7J2 : USER001

66 - 72 AAFKLFK

>F123C\_HUMAN|Q8N944 : USER001

164 - 170 FHRRNK

>F124A\_HUMAN|Q86V42 : USER001

192 - 198 LILRRSP

>F124B\_HUMAN|Q9H5Z6 : USER001

330 - 336 AHLHLSS

>F131A\_HUMAN|Q6UXB0 : USER001

149 - 155 AKLRAWS

>F132A\_HUMAN|Q5T7M4 : USER001

222 - 228 ARLRARD

>F134B\_HUMAN|Q9H6L5 : USER001  
244 - 250 SKIKSVL

>F135A\_HUMAN|Q9NU48 : USER001  
138 - 144 LKLHFSP  
236 - 242 HAYRFHY  
250 - 256 LAFKGLH  
342 - 348 LRVRRFS  
1331 - 1337 LIIRSVL

>F135B\_HUMAN|Q49AJ0 : USER001  
89 - 95 FRVHLLL  
342 - 348 LRVRRFS  
721 - 727 HALHRNS

>F148C\_HUMAN|Q8TF44 : USER001  
320 - 326 ARLRVHL  
322 - 328 LRVHLLA  
390 - 396 LRIKVVN

>F149A\_HUMAN|A5PLN7 : USER001  
344 - 350 SAVHRPP

>F149B\_HUMAN|Q96BN6 : USER001  
187 - 193 KKLHFSS

>F150A\_HUMAN|Q6UXT8 : USER001  
92 - 98 KHFHRLY

>F150B\_HUMAN|Q6UX46 : USER001  
53 - 59 KHFHRLY

>F18B2\_HUMAN|Q96ET8 : USER001  
195 - 201 SKFHQVD

>F222C\_HUMAN|Q6P4D5 : USER001  
75 - 81 SRLHQIK

>F71F2\_HUMAN|Q6NXP2 : USER001  
2 - 8 SKIRGLP

>F75A1\_HUMAN|Q5TZJ5 : USER001  
803 - 809 HIVRFWA

>F75A2\_HUMAN|Q5RGS2 : USER001  
803 - 809 HIVRFWA

>F75A3\_HUMAN|Q5VYP0 : USER001  
803 - 809 HIVRFWA

>F75A4\_HUMAN|Q4VX67 : USER001  
803 - 809 HIVRFWA

>F75A5\_HUMAN|Q5VU36 : USER001  
803 - 809 HIVRFWA

>F75A6\_HUMAN|Q5VVP1 : USER001  
799 - 805 HIVRFWA

>F75A7\_HUMAN|Q8IWB4 : USER001

803 - 809 HIVRFWA

>F8I2\_HUMAN|P23610 : USER001

24 - 30 ARYRLVS

127 - 133 AAVRLHL

>F91A1\_HUMAN|Q658Y4 : USER001

7 - 13 FHIRHNY

46 - 52 LRYRNNL

>FA10\_HUMAN|P00742 : USER001

284 - 290 FKVRVGD

>FA11\_HUMAN|P03951 : USER001

440 - 446 KILRVYS

547 - 553 KRYRGHK

>FA13A\_HUMAN|O94988 : USER001

387 - 393 AKFRRQL

674 - 680 KHIKAKL

>FA13C\_HUMAN|Q8NE31 : USER001

563 - 569 KHIKAKL

>FA21A\_HUMAN|Q641Q2 : USER001

554 - 560 SKLKGAS

>FA21B\_HUMAN|Q5SNT6 : USER001

466 - 472 SKLKGAS

>FA24A\_HUMAN|A6NFZ4 : USER001

39 - 45 KALKAAK

>FA24B\_HUMAN|Q8N5W8 : USER001

24 - 30 FKIHNAL

>FA26A\_HUMAN|Q86XJ0 : USER001

293 - 299 AHLRAIS

>FA26F\_HUMAN|Q5R3K3 : USER001

10 - 16 LHVKHHS

91 - 97 SALRGSL

>FA2H\_HUMAN|Q7L5A8 : USER001

335 - 341 HHVKHHF

>FA32A\_HUMAN|Q9Y421 : USER001

12 - 18 LKLKGVA

>FA38A\_HUMAN|Q92508 : USER001

1440 - 1446 LRFRRRK

>FA40A\_HUMAN|Q5VSL9 : USER001

587 - 593 KHFKLNH

612 - 618 LILKFFN

>FA40B\_HUMAN|Q9ULQ0 : USER001

583 - 589 KHFKLNH

608 - 614 LILKFFN

>FA43A\_HUMAN|Q8N2R8 : USER001

200 - 206 KRLKRRD

>FA44A\_HUMAN|Q8NFC6 : USER001

619 - 625 KHVHAKS

1631 - 1637 LAVHAVK

2664 - 2670 LKLKANL

>FA46A\_HUMAN|Q96IP4 : USER001

389 - 395 LAIRVLA

>FA46C\_HUMAN|Q5VWP2 : USER001

93 - 99 LIFHVAL

336 - 342 LALRVLA

>FA46D\_HUMAN|Q8NEK8 : USER001

380 - 386 LHFRGSN

>FA47A\_HUMAN|Q5JRC9 : USER001

360 - 366 SRLRLAP

427 - 433 YILKVLD

>FA49B\_HUMAN|Q9NUQ9 : USER001

102 - 108 AALRGLL

>FA54A\_HUMAN|Q6P444 : USER001

315 - 321 HALKQKF

>FA55C\_HUMAN|Q969Y0 : USER001

146 - 152 ARIHSLK

>FA57A\_HUMAN|Q8TBR7 : USER001

243 - 249 KAVRLFD

>FA59A\_HUMAN|Q9H706 : USER001

269 - 275 HRYKFVN

502 - 508 AAVKSSD

>FA5\_HUMAN|P12259 : USER001

373 - 379 KKYRSQH

673 - 679 KKLRLKF

675 - 681 LRLKFRD

>FA64A\_HUMAN|Q9BSJ6 : USER001

181 - 187 AAFRSPY

>FA65A\_HUMAN|Q6ZS17 : USER001

1084 - 1090 KALRLAP

>FA71D\_HUMAN|Q8N9W8 : USER001

139 - 145 LKVKLVS

>FA73A\_HUMAN|Q8NAN2 : USER001

48 - 54 AALRVFD

419 - 425 LIVKARK

>FA81A\_HUMAN|Q8TBF8 : USER001

85 - 91 AIVKQLN

>FA81B\_HUMAN|Q96LP2 : USER001

37 - 43 KKVRLSP

259 - 265 FKFHSL

>FA82B\_HUMAN|Q96DB5 : USER001

271 - 277 LKLHNKK

>FA83A\_HUMAN|Q86UY5 : USER001

213 - 219 SHLKNIS

>FA83B\_HUMAN|Q5T0W9 : USER001

292 - 298 ARVKH GK

538 - 544 SRLRSSL

>FA83C\_HUMAN|Q9BQN1 : USER001

83 - 89 SHVRGGP

>FA83E\_HUMAN|Q2M2I3 : USER001

259 - 265 ARLHRGL

>FA8\_HUMAN|P00451 : USER001

1935 - 1941 YRFHAIN

>FAAA\_HUMAN|P16930 : USER001

44 - 50 SIIKHLF

>FACD2\_HUMAN|Q9BXW9 : USER001

460 - 466 YAFKFFD

1089 - 1095 SALHVLS

>FACE1\_HUMAN|O75844 : USER001

315 - 321 AKVKNKK

>FACE2\_HUMAN|Q9Y256 : USER001

216 - 222 LRFRQSS

>FACR2\_HUMAN|Q96K12 : USER001

461 - 467 KRLRNIH

>FAHD1\_HUMAN|Q6P587 : USER001

144 - 150 HKLKLWL

>FAK1\_HUMAN|Q05397 : USER001

54 - 60 SIIRHGD

75 - 81 HKVKHVA

>FAKD2\_HUMAN|Q9NYY8 : USER001

52 - 58 KIVHSNW

>FAKD3\_HUMAN|Q14CZ7 : USER001

23 - 29 AALKNKP

63 - 69 KKFHSKN

314 - 320 LIIKLGK

>FAKD5\_HUMAN|Q7L8L6 : USER001

125 - 131 YRVHSYN

401 - 407 SALRFLN

>FAM3A\_HUMAN|P98173 : USER001

70 - 76 LAFRVVS

>FAM3B\_HUMAN|P58499 : USER001

74 - 80 YAYRLLS

>FAM5B\_HUMAN|Q9C0B6 : USER001  
648 - 654 SRIKSLD  
747 - 753 HRLKLAN

>FANCA\_HUMAN|Q9UPK3 : USER001  
572 - 578 SIFRRPY

>FANCB\_HUMAN|Q8NB91 : USER001  
516 - 522 SRFLLK

>FANCC\_HUMAN|Q00597 : USER001  
289 - 295 AIFRVVD

>FANCF\_HUMAN|Q9NPI8 : USER001  
352 - 358 LALRSGA

>FANCG\_HUMAN|O15287 : USER001  
211 - 217 FAYRQGL

>FANCI\_HUMAN|Q9NVI1 : USER001  
49 - 55 AIFKGGP

>FANCJ\_HUMAN|Q9BX63 : USER001  
31 - 37 SILRGLN  
805 - 811 SKLRGLL

>FANCL\_HUMAN|Q9NW38 : USER001  
152 - 158 LCLKAKY

>FANCM\_HUMAN|Q8IYD8 : USER001  
607 - 613 SIYKAIS  
1502 - 1508 SHLKHVA

>FARP1\_HUMAN|Q9Y4F1 : USER001  
799 - 805 FKVHGQL  
998 - 1004 FKLHFKS

>FARP2\_HUMAN|O94887 : USER001  
44 - 50 LHLRVKL  
46 - 52 LRVKLLD  
119 - 125 LAVKFFP  
686 - 692 LHYRLLL  
795 - 801 FRIRGLL

>FASTK\_HUMAN|Q14296 : USER001  
107 - 113 SKVRAHH  
352 - 358 LIVRRYL

>FAS\_HUMAN|P49327 : USER001  
357 - 363 LHFHSPN  
994 - 1000 LRLRGYD  
2495 - 2501 SIIHSSL

>FAT2\_HUMAN|Q9NYQ8 : USER001  
298 - 304 KHFKAIK  
301 - 307 KAIKSYA  
531 - 537 FRVRASD

1728 - 1734 LKIRGSN  
2139 - 2145 YHLKVIA  
2345 - 2351 FHVKVRA  
2871 - 2877 YHFHVVA  
3029 - 3035 FILKVSA  
3794 - 3800 WHIHFYL

>FATH\_HUMAN|Q14517 : USER001

536 - 542 LRIRASD

>FBF1\_HUMAN|Q8TES7 : USER001

411 - 417 SKLRASK

968 - 974 LRVKLRA

1091 - 1097 LHLHARL

>FBLN3\_HUMAN|Q12805 : USER001

426 - 432 FRIKSGN

>FBN2\_HUMAN|P35556 : USER001

2844 - 2850 FRIHQRN

>FBN3\_HUMAN|Q75N90 : USER001

2753 - 2759 HHLRGVS

2800 - 2806 LRLKVQL

>FBW10\_HUMAN|Q5XX13 : USER001

6 - 12 SRLKNAP

>FBW12\_HUMAN|Q6X9E4 : USER001

8 - 14 LALKRIF

>FBW1A\_HUMAN|Q9Y297 : USER001

387 - 393 LHLRFNN

>FBW1B\_HUMAN|Q9UKB1 : USER001

324 - 330 LHLRFSN

>FBX10\_HUMAN|Q9UK96 : USER001

570 - 576 HIFKGRA

>FBX16\_HUMAN|Q8IX29 : USER001

197 - 203 SAFRSSS

>FBX17\_HUMAN|Q96EF6 : USER001

199 - 205 LRVRLLD

>FBX21\_HUMAN|O94952 : USER001

100 - 106 YKVRQKA

>FBX28\_HUMAN|Q9NVF7 : USER001

362 - 368 KRLRNRK

>FBX30\_HUMAN|Q8TB52 : USER001

534 - 540 SHFKNVH

>FBX31\_HUMAN|Q5XUX0 : USER001

140 - 146 HRYRHIL

>FBX33\_HUMAN|Q7Z6M2 : USER001

478 - 484 ARLRGSD

>FBX34\_HUMAN|Q9NWN3 : USER001  
585 - 591 KIFRLLP

>FBX37\_HUMAN|Q9H469 : USER001  
152 - 158 LALRGLA

>FBX40\_HUMAN|Q9UH90 : USER001  
490 - 496 LHFKNVH

>FBX41\_HUMAN|Q8TF61 : USER001  
17 - 23 KRFRSLS

>FBX43\_HUMAN|Q4G163 : USER001  
501 - 507 LKYRNLK

>FBX7\_HUMAN|Q9Y3I1 : USER001  
3 - 9 LRVLLK  
28 - 34 SHLRQSL

>FBXL2\_HUMAN|Q9UKC9 : USER001  
130 - 136 SKLKHLD

>FBXL8\_HUMAN|Q96CD0 : USER001  
15 - 21 LIFRHLS  
278 - 284 AALRLNL

>FBXW5\_HUMAN|Q9BSU8 : USER001  
182 - 188 SRVRNKP

>FBXW7\_HUMAN|Q969H0 : USER001  
334 - 340 LHIKRRK  
673 - 679 WRIRASN

>FCG2A\_HUMAN|P12318 : USER001  
90 - 96 YRFKANN

>FCG2B\_HUMAN|P31994 : USER001  
99 - 105 YRFKANN

>FCG2C\_HUMAN|P31995 : USER001  
99 - 105 YRFKANN

>FCGR1\_HUMAN|P12314 : USER001  
142 - 148 KAFKFFH

>FCHO1\_HUMAN|O14526 : USER001  
196 - 202 SALRFQA  
281 - 287 KRLRGAK

>FCHO2\_HUMAN|Q0JRZ9 : USER001  
166 - 172 AAVKSKK  
596 - 602 FRVKNIS

>FCL\_HUMAN|Q13630 : USER001  
193 - 199 HKVHLAK

>FCN1\_HUMAN|O00602 : USER001  
20 - 26 LHIKNLP  
173 - 179 AAYKQGF  
218 - 224 AKYKSFK



>FCN2\_HUMAN|Q15485 : USER001  
205 - 211 AKYRSFK

>FCRL6\_HUMAN|Q6DN72 : USER001  
141 - 147 SALRLLF

>FDFT\_HUMAN|P37268 : USER001  
278 - 284 SRLRNQS

>FERM1\_HUMAN|Q9BQL6 : USER001  
97 - 103 LRLRLPN  
387 - 393 KAFKQYW

>FER\_HUMAN|P16591 : USER001  
220 - 226 KALKGIF  
610 - 616 KILKQYD

>FETUA\_HUMAN|P02765 : USER001  
25 - 31 LIYRQPN

>FEZ2\_HUMAN|Q9UHY8 : USER001  
281 - 287 KKLKNGS

>FEZF1\_HUMAN|A0PJY2 : USER001  
379 - 385 KAFHQVY

>FEZF2\_HUMAN|Q8TBJ5 : USER001  
396 - 402 KAFHQVY

>FGD1\_HUMAN|P98174 : USER001  
390 - 396 SRLHLLD  
596 - 602 HILKLSA

>FGD2\_HUMAN|Q7Z6J4 : USER001  
119 - 125 ARLHLLD

>FGD3\_HUMAN|Q5JSP0 : USER001  
174 - 180 KRLHLLD  
208 - 214 HRFHGQF

>FGD6\_HUMAN|Q6ZV73 : USER001  
870 - 876 SKVHHIA  
1006 - 1012 LALKHYL

>FGF16\_HUMAN|O43320 : USER001  
54 - 60 AHLKGIL

>FGF20\_HUMAN|Q9NP95 : USER001  
58 - 64 AHLHGIL

>FGF4\_HUMAN|P08620 : USER001  
81 - 87 KRLRRLY

>FGF5\_HUMAN|P12034 : USER001  
261 - 267 YRLKFRF

>FGFP1\_HUMAN|Q14512 : USER001  
25 - 31 KKVKNGL

>FGFR1\_HUMAN|P11362 : USER001  
163 - 169 KKLHAVP

326 - 332 LHLRNVS

>FGFR2\_HUMAN|Q9UQH8 : USER001

164 - 170 KRLHAVP

207 - 213 YKVRNQH

>FGFR4\_HUMAN|P22455 : USER001

157 - 163 KKLHAVP

>FGL2\_HUMAN|Q14314 : USER001

328 - 334 YRLHVG N

>FGRL1\_HUMAN|Q8N441 : USER001

75 - 81 SRFRVLP

>FHDC1\_HUMAN|Q9C0D6 : USER001

223 - 229 KKLKAFS

293 - 299 SILHLVL

>FHIT\_HUMAN|P49789 : USER001

140 - 146 AALRVYF

>FHOD1\_HUMAN|Q9Y613 : USER001

437 - 443 SIYKARF

>FHOD3\_HUMAN|Q2V2M9 : USER001

1045 - 1051 ARLHLWA

>FIBA\_HUMAN|P02671 : USER001

740 - 746 YHFRVGS

>FICD\_HUMAN|Q9BVA6 : USER001

355 - 361 AHYKLVY

>FIGN\_HUMAN|Q5HY92 : USER001

565 - 571 KIIHASF

>FIL1L\_HUMAN|Q4L180 : USER001

635 - 641 LKLKLD

1030 - 1036 AIFRVSP

>FINC\_HUMAN|Q9UMK2 : USER001

1388 - 1394 YRIRHHP

>FKB15\_HUMAN|Q5T1M5 : USER001

124 - 130 ARIHVNF

228 - 234 LRLKLG S

>FLII\_HUMAN|Q13045 : USER001

561 - 567 SAIHAVN

833 - 839 AKFKNWD

1032 - 1038 SHFKRKF

1038 - 1044 FIIHRGK

1086 - 1092 FILKVPF

>FLNA\_HUMAN|P21333 : USER001

1535 - 1541 FKVKVLP

1632 - 1638 YRVRAVP

1961 - 1967 SHLKVGS

2000 - 2006 KRLRNGH

2366 - 2372 AKVHSPS

2388 - 2394 YAVRFIP

>FLNB\_HUMAN|Q9NRB5 : USER001

1507 - 1513 FKVKVLP

2321 - 2327 AKVHSPS

2343 - 2349 YAVRFIP

>FLNC\_HUMAN|Q14315 : USER001

1529 - 1535 FKIKVLP

1626 - 1632 FRIHALP

>FLRT1\_HUMAN|Q9NZU1 : USER001

188 - 194 HAFKGLN

411 - 417 LAIHVKA

>FLRT2\_HUMAN|O43155 : USER001

236 - 242 SIVRNSL

>FLRT3\_HUMAN|Q9NZU0 : USER001

300 - 306 LILRNNP

>FLT3\_HUMAN|P36888 : USER001

273 - 279 KAVHVNH

>FMN1\_HUMAN|Q68DA7 : USER001

1046 - 1052 KIIKLLD

1172 - 1178 LHVKSVK

>FMNL2\_HUMAN|Q96PY5 : USER001

336 - 342 FRVHLQY

719 - 725 KAIHVFD

>FMNL3\_HUMAN|Q8IVF7 : USER001

339 - 345 FRVHLQY

>FMNL\_HUMAN|O95466 : USER001

693 - 699 SALKSKA

>FMO1\_HUMAN|Q01740 : USER001

388 - 394 WAVRVLK

>FMO2\_HUMAN|Q99518 : USER001

459 - 465 LAVRLYF

>FMO3\_HUMAN|P31513 : USER001

53 - 59 SIYKSVF

341 - 347 SIIKSRN

>FMO5\_HUMAN|P49326 : USER001

459 - 465 LALHLLL

>FMT\_HUMAN|Q96DP5 : USER001

134 - 140 LILKFPY

>FNBP2\_HUMAN|O75044 : USER001

218 - 224 KHVRRSS

245 - 251 KAIKARN

>FNBP4\_HUMAN|Q8N3X1 : USER001  
1006 - 1012 ARLKRRK

>FND3A\_HUMAN|Q9Y2H6 : USER001  
171 - 177 AKIKSGK  
472 - 478 YKFKVIA  
669 - 675 FRLRAAN  
984 - 990 AALKAPK

>FND3B\_HUMAN|Q9H5I7 : USER001  
351 - 357 YHVRVYA  
739 - 745 YRFRVRA  
741 - 747 FRVRALN  
1006 - 1012 SIYRGPS

>FNDC1\_HUMAN|Q4ZHG4 : USER001  
110 - 116 LRVRVRS  
1253 - 1259 ARFRNPL

>FNIP1\_HUMAN|Q8TF40 : USER001  
234 - 240 FAVHSNP

>FNIPL\_HUMAN|Q9P278 : USER001  
1042 - 1048 YKLHLPA

>FOLC\_HUMAN|Q05932 : USER001  
6 - 12 SHLRAAL

>FOX1\_HUMAN|Q9NWB1 : USER001  
117 - 123 KRLHVSN  
265 - 271 AAYRGAH  
385 - 391 SIYRGGY

>FOXB1\_HUMAN|Q99853 : USER001  
107 - 113 KRFKVLK  
132 - 138 AKLRLSA  
316 - 322 SALHSVA

>FOXD1\_HUMAN|Q16676 : USER001  
219 - 225 KRFKRQP

>FOXD2\_HUMAN|O60548 : USER001  
221 - 227 KRFKRQP

>FOXE1\_HUMAN|O00358 : USER001  
147 - 153 KRFKRSD

>FOXG1\_HUMAN|P55316 : USER001  
284 - 290 LAFKRGGA

>FOXI2\_HUMAN|Q6ZQN5 : USER001  
203 - 209 AAVRSGA

>FOXK1\_HUMAN|P85037 : USER001  
14 - 20 LALRSAP

>FOXL2\_HUMAN|P58012 : USER001  
297 - 303 HHLHAAA

>FOXN1\_HUMAN|O15353 : USER001  
142 - 148 LALKGHS

>FOXO6\_HUMAN|A8MYZ6 : USER001  
192 - 198 LRIKGKA

>FOXP3\_HUMAN|Q9BZS1 : USER001  
306 - 312 FAVRRHL

>FOXR1\_HUMAN|Q6PIV2 : USER001  
184 - 190 LALRNSS

>FOXR2\_HUMAN|Q6PQ5 : USER001  
203 - 209 LALRNNP

>FP100\_HUMAN|Q0VG06 : USER001  
56 - 62 AAFRFPD  
322 - 328 LAIKASW

>FPPS\_HUMAN|P14324 : USER001  
299 - 305 ARVKALY  
347 - 353 KIYKRRK

>FPRL2\_HUMAN|P25089 : USER001  
226 - 232 AKIHRNH

>FR1L5\_HUMAN|A0AVI2 : USER001  
940 - 946 ARVRFRN  
979 - 985 SKFHLNP  
1056 - 1062 LKYHAGK  
1663 - 1669 KKFQLQS  
1992 - 1998 KRYRFKL  
1994 - 2000 YRFKLIA

>FRAP\_HUMAN|P42345 : USER001  
779 - 785 LILKDKD  
1802 - 1808 LHYKHQN  
1815 - 1821 KKLRRHAS

>FRAS1\_HUMAN|Q86XX4 : USER001  
630 - 636 KALRQGH  
1175 - 1181 KKVRFBVH  
1869 - 1875 AIIKLSA  
3365 - 3371 SIYRHQH  
3541 - 3547 AKFRGQF  
3710 - 3716 SAYKLQL  
3752 - 3758 KHLKHRF  
3986 - 3992 AKVKRLN

>FREM3\_HUMAN|P0C091 : USER001  
672 - 678 LAFHVQD

>FRK\_HUMAN|P42685 : USER001  
165 - 171 YRIKRLD

>FRM4A\_HUMAN|Q9P2Q2 : USER001

662 - 668 LRVRSPH

686 - 692 LALHFRH

688 - 694 LHFRHRS

>FRMD1\_HUMAN|Q8N878 : USER001

281 - 287 LALRGVH

330 - 336 LHLRVRP

>FRMD3\_HUMAN|Q8N9L2 : USER001

107 - 113 FRVKFYP

251 - 257 KRIHLIK

>FRMD5\_HUMAN|Q7Z6J6 : USER001

92 - 98 FRVKFYP

236 - 242 KRVFHFK

>FRMD6\_HUMAN|Q96NE9 : USER001

195 - 201 YILKHIP

415 - 421 SAIHRKL

>FRMD7\_HUMAN|Q6ZUT3 : USER001

2 - 8 LHLKVQF

675 - 681 ARIRLSS

>FRPD1\_HUMAN|Q5SYB0 : USER001

233 - 239 SRLHLLH

304 - 310 SALRLAA

>FRPD3\_HUMAN|Q5JV73 : USER001

145 - 151 AKLRSNP

1247 - 1253 FRLRNLF

>FRPD4\_HUMAN|Q14CM0 : USER001

169 - 175 ARLKSNP

894 - 900 AILRAYS

>FRRS1\_HUMAN|Q6ZNA5 : USER001

370 - 376 LKVHGAL

433 - 439 FIYRGGW

>FRYL\_HUMAN|O94915 : USER001

154 - 160 LAFKHFK

342 - 348 SHLKNKD

517 - 523 SILRHLD

2021 - 2027 LALRLLN

2836 - 2842 YKLHFQL

2925 - 2931 KAFRSLW

>FRY\_HUMAN|Q5TBA9 : USER001

202 - 208 LAFKHFK

1660 - 1666 WALHLPL

2832 - 2838 YKLHFQL

>FSBP\_HUMAN|O95073 : USER001

285 - 291 KAIRLRH

>FSCN2\_HUMAN|O14926 : USER001  
421 - 427 YRIRGRD  
459 - 465 LAIRARS

>FSCN3\_HUMAN|Q9NQT6 : USER001  
97 - 103 LRFHRNS  
142 - 148 LHVHVIL

>FSHR\_HUMAN|P23945 : USER001  
242 - 248 KCLRARS

>FSIP1\_HUMAN|Q8NA03 : USER001  
421 - 427 SIKLSS

>FSTL4\_HUMAN|Q6MZW2 : USER001  
146 - 152 ARLKNVL

>FTMT\_HUMAN|Q8N4E7 : USER001  
66 - 72 SRVRQNF

>FTM\_HUMAN|Q68CZ1 : USER001  
443 - 449 KRIKLYN

>FUBP2\_HUMAN|Q92945 : USER001  
475 - 481 FIIRGSP

>FUBP3\_HUMAN|Q96I24 : USER001  
24 - 30 HRVRQIA

>FURIN\_HUMAN|P09958 : USER001  
501 - 507 LAIHLVS

>FUT11\_HUMAN|Q495W5 : USER001  
272 - 278 SRYKFHL  
274 - 280 YKFHLAL

>FUT3\_HUMAN|P21217 : USER001  
239 - 245 SRYKFYL

>FUT4\_HUMAN|P22083 : USER001  
280 - 286 ARYKFYL

>FUT5\_HUMAN|Q11128 : USER001  
252 - 258 SRYKFYL

>FUT6\_HUMAN|P51993 : USER001  
238 - 244 SRYKFYL

>FUT7\_HUMAN|Q11130 : USER001  
131 - 137 SHLRGIF

>FVT1\_HUMAN|Q06136 : USER001  
191 - 197 FAIRGLA

>FX4L4\_HUMAN|Q8WXT5 : USER001  
226 - 232 AALHNPH

>FX4L5\_HUMAN|Q5VV16 : USER001  
226 - 232 AALHNPH

>FX4L6\_HUMAN|Q3SYB3 : USER001  
226 - 232 AALHNPH

>FXL13\_HUMAN|Q8WUG0 : USER001  
124 - 130 LILKRAA

>FXL14\_HUMAN|Q8N1E6 : USER001  
52 - 58 LHLRRAN

>FXL20\_HUMAN|Q96IG2 : USER001  
143 - 149 SKLRHLD

>FXRD1\_HUMAN|Q96CU9 : USER001  
39 - 45 KIKSIL  
391 - 397 LALRVPA

>FYCO1\_HUMAN|Q9BQS8 : USER001  
79 - 85 AKVKGAN

>FZD4\_HUMAN|Q9ULV1 : USER001  
414 - 420 FKIRSNL

>FZD6\_HUMAN|O60353 : USER001  
535 - 541 SKVKHKK  
549 - 555 HKLKVIS

>FZD9\_HUMAN|O00144 : USER001  
86 - 92 SHLRFFL

>FZR\_HUMAN|Q9Y2T8 : USER001  
356 - 362 AAVKAIA

>G109A\_HUMAN|Q8TDS4 : USER001  
25 - 31 FIVKVLP  
54 - 60 FHLKSWK

>G109B\_HUMAN|P49019 : USER001  
54 - 60 FHLKSWK

>G137A\_HUMAN|Q96N19 : USER001  
124 - 130 AKVKRRP  
137 - 143 LAVRGAF  
295 - 301 FRVHRPP

>G137B\_HUMAN|O60478 : USER001  
152 - 158 LKYRLPL

>G137C\_HUMAN|Q8N3F9 : USER001  
117 - 123 AHLHFFP

>G3ST1\_HUMAN|Q99999 : USER001  
102 - 108 HRLKFAF  
332 - 338 AALRHAN

>G3ST2\_HUMAN|Q9H3Q3 : USER001  
88 - 94 SRVHLGY

>G3ST4\_HUMAN|Q96RP7 : USER001  
437 - 443 YILRSGL

>G45IP\_HUMAN|Q8TAE8 : USER001  
103 - 109 LRVKQLA

>G6PE\_HUMAN|O95479 : USER001



464 - 470 HIFHGRK  
>G6PT\_HUMAN|P35575 : USER001  
196 - 202 SHIHSIY  
>GA2L2\_HUMAN|Q8NHY3 : USER001  
770 - 776 SIYKLLK  
772 - 778 YKLLLRP  
>GAB1\_HUMAN|Q13480 : USER001  
19 - 25 KKLKRYA  
427 - 433 FKVKNVL  
>GAB2\_HUMAN|Q9UQC2 : USER001  
20 - 26 KKLRRYA  
398 - 404 SRLHRAS  
>GAB4\_HUMAN|Q2WGN9 : USER001  
53 - 59 KKLRLFA  
>GABR1\_HUMAN|Q9UBS5 : USER001  
452 - 458 KRLKRHP  
954 - 960 SRVHLLY  
>GABR2\_HUMAN|O75899 : USER001  
185 - 191 AILKLLK  
241 - 247 KKLKGND  
352 - 358 SKFHGYA  
576 - 582 WRVHAIF  
580 - 586 AIFKNVK  
661 - 667 YAYKGLL  
852 - 858 AILKNHL  
>GAGB1\_HUMAN|O75459 : USER001  
7 - 13 LIYRRRP  
>GAGC1\_HUMAN|O60829 : USER001  
3 - 9 ARVRSRS  
>GAK10\_HUMAN|P87889 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIKAAL  
305 - 311 ARYKSFS  
>GAK11\_HUMAN|P63145 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIKAAL  
305 - 311 ARYKSFS  
>GAK12\_HUMAN|P63130 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIKAAL  
305 - 311 ARYKSFS  
>GAK15\_HUMAN|P62688 : USER001  
6 - 12 SKIKSKY

86 - 92 AIIKAAL  
>GAK17\_HUMAN|P62689 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
>GAK19\_HUMAN|P62691 : USER001  
82 - 88 AIIKAIL  
>GAK1\_HUMAN|P62683 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
305 - 311 ARYKSFS  
>GAK2\_HUMAN|Q7LDI9 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
305 - 311 ARYKSFS  
>GAK3\_HUMAN|Q9YNA8 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
305 - 311 ARYKSFS  
>GAK5\_HUMAN|P62684 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
305 - 311 ARYKSFS  
>GAK6\_HUMAN|P62685 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
305 - 311 ARYKSFS  
>GAK8\_HUMAN|Q9HDB9 : USER001  
86 - 92 AIIKAAL  
>GAK9\_HUMAN|Q9UKH8 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIIKAAL  
>GAK\_HUMAN|O14976 : USER001  
40 - 46 LRVRRVL  
66 - 72 YALKRLL  
1216 - 1222 LKLKLLD  
>GALK1\_HUMAN|P51570 : USER001  
293 - 299 AALRRGD  
>GALM\_HUMAN|Q96C23 : USER001  
258 - 264 ARVHHAA  
>GALR1\_HUMAN|P47211 : USER001  
264 - 270 HIIHLWA  
312 - 318 KAYKQVF  
>GALR3\_HUMAN|O60755 : USER001

122 - 128 LAVRHPL  
300 - 306 ARFRRLW  
>GALT1\_HUMAN|Q10472 : USER001  
192 - 198 ARLKGAA  
>GALT2\_HUMAN|Q10471 : USER001  
207 - 213 SRVRGAD  
>GALT3\_HUMAN|Q14435 : USER001  
10 - 16 LHIKRHY  
460 - 466 KIVKQKA  
>GALT5\_HUMAN|Q7Z7M9 : USER001  
31 - 37 AALRLSF  
408 - 414 SHIKALL  
916 - 922 KILKVAA  
>GALT7\_HUMAN|Q86SF2 : USER001  
7 - 13 FILRSL  
>GALT8\_HUMAN|Q9NY28 : USER001  
423 - 429 AALKRNA  
>GALT9\_HUMAN|Q9HCQ5 : USER001  
434 - 440 LALRQRL  
>GAMT\_HUMAN|Q14353 : USER001  
155 - 161 HAFRLK  
>GAN\_HUMAN|Q9H2C0 : USER001  
590 - 596 FRIRVHS  
>GAS6\_HUMAN|Q14393 : USER001  
10 - 16 AALRRAP  
701 - 707 AAYKHSD  
>GASP1\_HUMAN|Q5JY77 : USER001  
283 - 289 SRFRSCK  
>GASP2\_HUMAN|Q96D09 : USER001  
348 - 354 SRFRHRD  
362 - 368 LKLRAQK  
>GATA1\_HUMAN|P15976 : USER001  
286 - 292 YKLHQVN  
>GATA2\_HUMAN|P23769 : USER001  
377 - 383 YKLHNVN  
>GATA3\_HUMAN|P23771 : USER001  
345 - 351 YKLHNIN  
>GATA4\_HUMAN|P43694 : USER001  
401 - 407 SALKLSP  
>GATD1\_HUMAN|Q8WUU5 : USER001  
119 - 125 HIFKLKN  
>GBP1\_HUMAN|P32455 : USER001  
150 - 156 HRIRSKS

>GBP3\_HUMAN|Q9H0R5 : USER001  
150 - 156 HRIRSKS

>GBP4\_HUMAN|Q96PP9 : USER001  
435 - 441 SILRGIF

>GBRA6\_HUMAN|Q16445 : USER001  
366 - 372 SKYHLKK

>GBRAP\_HUMAN|O95166 : USER001  
66 - 72 KRIHLRA

>GBRB2\_HUMAN|P47870 : USER001  
427 - 433 SRLRRRA

>GBRD\_HUMAN|O14764 : USER001  
305 - 311 SAIKALD

>GBRG1\_HUMAN|Q8N1C3 : USER001  
122 - 128 SRLKFNS

>GBRG3\_HUMAN|Q99928 : USER001  
105 - 111 SRLRFNS

>GBRL1\_HUMAN|Q9H0R8 : USER001  
66 - 72 KRIHLRP

>GBRL2\_HUMAN|P60520 : USER001  
19 - 25 AKIRAKY

>GBRL3\_HUMAN|Q9BY60 : USER001  
66 - 72 KRIHLRP

>GBX1\_HUMAN|Q14549 : USER001  
317 - 323 KRIKAGN  
348 - 354 FAVRSQH

>GBX2\_HUMAN|P52951 : USER001  
303 - 309 KRVKAGN  
334 - 340 FAIRSQH

>GCA14\_HUMAN|Q9H7U1 : USER001  
680 - 686 LCLKRLL

>GCC1\_HUMAN|Q96CN9 : USER001  
156 - 162 KRLHQLK  
328 - 334 ARLKSHF

>GCC2\_HUMAN|Q8IWJ2 : USER001  
1222 - 1228 YKVRVHN  
1260 - 1266 LKIKLQD

>GCFC\_HUMAN|Q9Y5B6 : USER001  
130 - 136 KIVKLLK  
470 - 476 SAIHQLY

>GCM2\_HUMAN|O75603 : USER001  
109 - 115 ARLKQQK

>GCN1L\_HUMAN|Q9UE60 : USER001  
320 - 326 LALRNLA

440 - 446 SAVRHAY  
578 - 584 WHVRRQA  
1550 - 1556 SHVKVQK  
1829 - 1835 WRIRFSS  
>GCNT1\_HUMAN|Q02742 : USER001  
32 - 38 LRIHQKP  
>GCNT3\_HUMAN|O95395 : USER001  
428 - 434 LRYKAIY  
>GCNT6\_HUMAN|Q5T4J0 : USER001  
260 - 266 LKIHFGS  
>GCP2\_HUMAN|Q9BSJ2 : USER001  
17 - 23 LRVHGGD  
511 - 517 AHLRSIK  
>GCP3\_HUMAN|Q96CW5 : USER001  
791 - 797 AIYRAAL  
>GCP4\_HUMAN|Q9UGJ1 : USER001  
312 - 318 HRLKQQP  
>GCP5\_HUMAN|Q96RT8 : USER001  
48 - 54 FRFHRFL  
236 - 242 LHLHSNL  
479 - 485 WIVHGHL  
>GCP60\_HUMAN|Q9H3P7 : USER001  
89 - 95 LALRFFK  
>GCP6\_HUMAN|Q96RT7 : USER001  
244 - 250 LAIKVPP  
790 - 796 ARLRFL  
1745 - 1751 LKFRSQL  
>GCSP\_HUMAN|P23378 : USER001  
396 - 402 AIYHGSH  
>GCRYB1\_HUMAN|Q02153 : USER001  
235 - 241 AIYRVLP  
>GDAP1\_HUMAN|Q8TB36 : USER001  
190 - 196 KRLKSKL  
>GDC\_HUMAN|P16260 : USER001  
78 - 84 SALRAVP  
>GDE1\_HUMAN|Q9NZC3 : USER001  
83 - 89 AAIRQAA  
>GDE5\_HUMAN|Q9NPB8 : USER001  
155 - 161 SRFRVKL  
>GDE\_HUMAN|P35573 : USER001  
145 - 151 SRLRVAK  
1318 - 1324 KAIKVSY  
>GDF11\_HUMAN|O95390 : USER001

334 - 340 KRYKANY  
>GDF15\_HUMAN|Q99988 : USER001  
118 - 124 SRLHRAL  
155 - 161 LHLRLSP  
>GDF50\_HUMAN|Q5U4N7 : USER001  
228 - 234 SRLRGKA  
>GDF5\_HUMAN|P43026 : USER001  
403 - 409 KALHVNF  
>GDF8\_HUMAN|O14793 : USER001  
302 - 308 KRYKANY  
>GDF9\_HUMAN|O60383 : USER001  
281 - 287 LHYKRRP  
>GDIA\_HUMAN|P31150 : USER001  
115 - 121 KIYKVPS  
>GDIB\_HUMAN|P50395 : USER001  
115 - 121 KIYKVPS  
>GDIR3\_HUMAN|Q99819 : USER001  
70 - 76 AKYKRVL  
>GDNF\_HUMAN|Q9UMV2 : USER001  
73 - 79 KRLKRSP  
158 - 164 KILKNLS  
>GDPD2\_HUMAN|Q9HCC8 : USER001  
114 - 120 LHLHSLH  
>GDS1\_HUMAN|P52306 : USER001  
383 - 389 SALRNLA  
>GEMI4\_HUMAN|P57678 : USER001  
772 - 778 LRLKSFF  
>GEMI5\_HUMAN|Q8TEQ6 : USER001  
189 - 195 HRLRGHD  
>GEM\_HUMAN|P55040 : USER001  
283 - 289 FKLKSKS  
>GEN\_HUMAN|Q17RS7 : USER001  
108 - 114 SHFKSVL  
901 - 907 LKLRFQS  
>GEPH\_HUMAN|Q9NQX3 : USER001  
376 - 382 YAVRAAD  
>GFI1B\_HUMAN|Q5VTD9 : USER001  
227 - 233 KAFKRSS  
255 - 261 KRFHQKS  
>GFI1\_HUMAN|Q99684 : USER001  
347 - 353 KRFHQKS  
>GFOD1\_HUMAN|Q9NXC2 : USER001  
26 - 32 FAVKALW

>GFPT2\_HUMAN|O94808 : USER001  
293 - 299 HRVKRSA

>GFRA1\_HUMAN|P56159 : USER001  
168 - 174 KKYRSAY  
194 - 200 KALRQFF  
371 - 377 LRVKNKP

>GFRA2\_HUMAN|O00451 : USER001  
175 - 181 KCLRSSY  
202 - 208 KALRQFF

>GFRA3\_HUMAN|O60609 : USER001  
59 - 65 AAYHHL

>GFRAL\_HUMAN|Q6UXV0 : USER001  
169 - 175 AAIRFFY

>GGA2\_HUMAN|Q9UJY4 : USER001  
102 - 108 AKFRFLN

>GGA3\_HUMAN|Q9NZ52 : USER001  
511 - 517 SALHHL

>GGPPS\_HUMAN|O95749 : USER001  
70 - 76 SKLRRGF  
270 - 276 KAYKQID

>GGT6\_HUMAN|Q6P531 : USER001  
326 - 332 AALRSGA  
402 - 408 LILRGSL

>GHC1\_HUMAN|Q9H936 : USER001  
80 - 86 KAIKLAA

>GHC2\_HUMAN|Q9H1K4 : USER001  
79 - 85 KAIKLAA

>GHDC\_HUMAN|Q8N2G8 : USER001  
251 - 257 LALRLWP

>GHRHR\_HUMAN|Q02643 : USER001  
172 - 178 FILKAGA

>GHSR\_HUMAN|Q92847 : USER001  
203 - 209 FAVRSGL

>GI24\_HUMAN|Q9H7M9 : USER001  
257 - 263 AKVRHPL

>GIMA5\_HUMAN|Q96F15 : USER001  
55 - 61 SKLRAQS  
267 - 273 WAYKALL

>GIPC2\_HUMAN|Q8TF65 : USER001  
3 - 9 LKLRGKK

>GIT1\_HUMAN|Q9Y2X7 : USER001  
49 - 55 KHLRHSA  
708 - 714 SAYRLQS

>GIT2\_HUMAN|Q14161 : USER001  
706 - 712 SAYRLQS

>GL1D1\_HUMAN|Q96MS3 : USER001  
216 - 222 AKVKRAA

>GL54D\_HUMAN|A6NG13 : USER001  
227 - 233 WRIKQVL

>GL6D1\_HUMAN|Q7Z4J2 : USER001  
68 - 74 KHYRRRN

>GLCI1\_HUMAN|Q86VQ1 : USER001  
235 - 241 AKLRQQL  
336 - 342 AHYRSSH

>GLCTK\_HUMAN|Q8IVS8 : USER001  
426 - 432 LALRVGA

>GLDN\_HUMAN|Q6ZMI3 : USER001  
63 - 69 SALRSFL

>GLE1\_HUMAN|Q53GS7 : USER001  
12 - 18 KALRSSD

>GLGB\_HUMAN|Q04446 : USER001  
575 - 581 LRYKFLN

>GLI2\_HUMAN|P10070 : USER001  
313 - 319 LHVRAIK

>GLI3\_HUMAN|P10071 : USER001  
927 - 933 YRLKAKY

>GLI4\_HUMAN|P10075 : USER001  
218 - 224 KRFRGWS  
330 - 336 KAFRGRS

>GLIS1\_HUMAN|Q8NBF1 : USER001  
279 - 285 LKIHLRS  
341 - 347 KHVKAHS  
355 - 361 KKLHAGP

>GLIS2\_HUMAN|Q9BZE0 : USER001  
250 - 256 LKIHNRS

>GLIS3\_HUMAN|Q8NEA6 : USER001  
428 - 434 LKIHLRS  
490 - 496 KHVKAHS

>GLNA\_HUMAN|P15104 : USER001  
283 - 289 YHIRAYD

>GLP1R\_HUMAN|P43220 : USER001  
187 - 193 FILRALS  
333 - 339 SKLKANL

>GLP2R\_HUMAN|O95838 : USER001  
379 - 385 YKYRLAK

>GLPK2\_HUMAN|Q14410 : USER001



150 - 156 SAVKLRW  
>GLPK3\_HUMAN|Q14409 : USER001  
150 - 156 SAVKLRW  
>GLPK\_HUMAN|P32189 : USER001  
150 - 156 SAVKLRW  
>GLRX3\_HUMAN|O76003 : USER001  
26 - 32 LRLKAKS  
>GLR\_HUMAN|P47871 : USER001  
343 - 349 YKFRLAK  
>GLSK\_HUMAN|O94925 : USER001  
472 - 478 FAFHVGL  
567 - 573 SALRRFA  
>GLSL\_HUMAN|Q9UI32 : USER001  
405 - 411 FAFHVGL  
500 - 506 SALRRFA  
>GLT10\_HUMAN|Q86SR1 : USER001  
424 - 430 KKLRSLL  
>GLT13\_HUMAN|Q8IUC8 : USER001  
191 - 197 ARLRGAA  
>GLT14\_HUMAN|Q96FL9 : USER001  
182 - 188 SRIRGAD  
>GLTD1\_HUMAN|Q5TA50 : USER001  
109 - 115 LRLHRAL  
>GLTD2\_HUMAN|A6NH11 : USER001  
138 - 144 ARVHGPD  
>GLTL1\_HUMAN|Q8N428 : USER001  
194 - 200 SRVRGAD  
>GLTL2\_HUMAN|Q8N3T1 : USER001  
5 - 11 KRYRHRP  
580 - 586 LAIHQQH  
>GLTL4\_HUMAN|Q6P9A2 : USER001  
396 - 402 AHVRRNA  
>GLTL5\_HUMAN|Q7Z4T8 : USER001  
197 - 203 KIIRNKK  
312 - 318 FAIRRHY  
>GLYAT\_HUMAN|Q6IB77 : USER001  
119 - 125 AAIKSFK  
>GMCL1\_HUMAN|Q96IK5 : USER001  
454 - 460 FRLRLAS  
>GMCLL\_HUMAN|Q8NEA9 : USER001  
454 - 460 FRLRLAS  
>GMPPB\_HUMAN|Q9Y5P6 : USER001  
295 - 301 ARIRSHS

>GMPR2\_HUMAN|Q9P2T1 : USER001  
261 - 267 KKYKLFY

>GNAO\_HUMAN|P09471 : USER001  
195 - 201 LHFRLFD

>GNAS3\_HUMAN|O95467 : USER001  
164 - 170 HALKLR  
166 - 172 LKLRSPD

>GNB1L\_HUMAN|Q9BYB4 : USER001  
275 - 281 HRIRVFH  
291 - 297 LAFHSAA

>GNDS\_HUMAN|Q12967 : USER001  
663 - 669 AIVKRWS

>GNL1\_HUMAN|P36915 : USER001  
58 - 64 HHIRRLN

>GNL3L\_HUMAN|Q9NVN8 : USER001  
543 - 549 SALKNKK

>GNL3\_HUMAN|Q9BVP2 : USER001  
218 - 224 KRVKAKK  
320 - 326 LALRSPA

>GNMT\_HUMAN|Q14749 : USER001  
158 - 164 LALKNIA  
239 - 245 SKFRLSY

>GNPAT\_HUMAN|O15228 : USER001  
112 - 118 HKLRLGA  
479 - 485 SAYRNQL

>GNPTA\_HUMAN|Q3T906 : USER001  
746 - 752 AKIKNQA

>GNPTG\_HUMAN|Q9UJJ9 : USER001  
257 - 263 KRLKGLL

>GNRHR\_HUMAN|P30968 : USER001  
147 - 153 LALKSNS

>GOGA1\_HUMAN|Q92805 : USER001  
570 - 576 LRLRGPL

>GOGA2\_HUMAN|Q08379 : USER001  
36 - 42 KKIKNGS  
740 - 746 ARLRGQL

>GOGA3\_HUMAN|Q08378 : USER001  
241 - 247 SKIRSLA

>GGOB1\_HUMAN|Q14789 : USER001  
94 - 100 KKLKLHA  
96 - 102 LKLHAKA

>GOLP3\_HUMAN|Q9H4A6 : USER001  
97 - 103 LALRGRL

266 - 272 KRVRQLL  
>GON4L\_HUMAN|Q9BQI1 : USER001  
407 - 413 SRLRQSS  
>GOPC\_HUMAN|Q9HD26 : USER001  
389 - 395 HRYRLYL  
>GOR\_HUMAN|Q8IX06 : USER001  
233 - 239 LALKLIH  
295 - 301 WKVRQRA  
>GP110\_HUMAN|Q5T601 : USER001  
363 - 369 SHFRVSN  
844 - 850 SKLRQLL  
>GP112\_HUMAN|Q8IZF6 : USER001  
325 - 331 SAIKSQS  
2787 - 2793 SALHVVA  
>GP114\_HUMAN|Q8IZF4 : USER001  
269 - 275 LHFHFRK  
>GP115\_HUMAN|Q8IZF3 : USER001  
26 - 32 SKIHLKA  
225 - 231 LHIHNNS  
>GP116\_HUMAN|Q8IZF2 : USER001  
547 - 553 FRYKNSY  
>GP119\_HUMAN|Q8TDV5 : USER001  
105 - 111 LAIKQPF  
>GP123\_HUMAN|Q86SQ6 : USER001  
536 - 542 SRFRNFA  
759 - 765 YIVHQSA  
>GP124\_HUMAN|Q96PE1 : USER001  
215 - 221 SALHAQA  
941 - 947 LRLRGPL  
1195 - 1201 KALRGGA  
>GP125\_HUMAN|Q8IWK6 : USER001  
781 - 787 YIYHSL  
>GP132\_HUMAN|Q9UNW8 : USER001  
238 - 244 AKVKHSA  
>GP133\_HUMAN|Q6QNK2 : USER001  
396 - 402 SHYRFPA  
602 - 608 YHIHANL  
>GP135\_HUMAN|Q8IZ08 : USER001  
83 - 89 AAVRRPL  
387 - 393 YAIRNPN  
428 - 434 SRLRNRVY  
>GP139\_HUMAN|Q6DWJ6 : USER001  
208 - 214 YKLRRKS

216 - 222 FRLRGYS

>GP142\_HUMAN|Q7Z601 : USER001

390 - 396 WRVHLAL

>GP144\_HUMAN|Q7Z7M1 : USER001

131 - 137 ARLRSPL

>GP148\_HUMAN|Q8TDV2 : USER001

322 - 328 LRYRQLL

>GP150\_HUMAN|Q8NGU9 : USER001

335 - 341 AALRVVA

>GP155\_HUMAN|Q8N8K3 : USER001

405 - 411 KKYKQLP

>GP156\_HUMAN|Q8NFN8 : USER001

633 - 639 SRLHVQN

652 - 658 SRVRRPS

>GP157\_HUMAN|Q5UAW9 : USER001

122 - 128 WAFHVVS

>GP158\_HUMAN|Q5T848 : USER001

501 - 507 LKLHRVL

>GP161\_HUMAN|Q8N6U8 : USER001

215 - 221 ARVKARK

447 - 453 SILHVKA

>GP174\_HUMAN|Q9BXC1 : USER001

271 - 277 LIFHSVA

>GP177\_HUMAN|Q5T9L3 : USER001

418 - 424 SKVRRLLH

428 - 434 LIFRFKF

>GPC6A\_HUMAN|Q5T6X5 : USER001

326 - 332 FAFRRGN

384 - 390 LAYKANK

769 - 775 FAFKGKY

>GPHA2\_HUMAN|Q96T91 : USER001

95 - 101 KKVKVQL

>GPKOW\_HUMAN|Q92917 : USER001

362 - 368 LRVRFVD

>GPR17\_HUMAN|Q13304 : USER001

168 - 174 LKLRRPL

343 - 349 KRLKGPP

>GPR1\_HUMAN|P46091 : USER001

229 - 235 LIFKVKK

>GPR25\_HUMAN|O00155 : USER001

261 - 267 SALRAVF

>GPR31\_HUMAN|O00270 : USER001

41 - 47 FRVRVWK

88 - 94 WALHFLL  
>GPR33\_HUMAN|Q49SQ1 : USER001  
261 - 267 YHIHQGL  
>GPR34\_HUMAN|Q9UPC5 : USER001  
283 - 289 HAFRFIY  
>GPR39\_HUMAN|O43194 : USER001  
141 - 147 FRYKAVS  
372 - 378 KRLRVHA  
374 - 380 LRVHAHS  
>GPR3\_HUMAN|P46089 : USER001  
297 - 303 YAFRNQD  
>GPR4\_HUMAN|P46093 : USER001  
126 - 132 ARLRRVK  
220 - 226 AKIKRLA  
266 - 272 SAYHSSL  
299 - 305 KALHNLL  
>GPR55\_HUMAN|Q9Y2T6 : USER001  
40 - 46 LAIHGFS  
>GPR63\_HUMAN|Q9BZJ6 : USER001  
71 - 77 AAFKSLN  
274 - 280 LRIHSYP  
>GPR6\_HUMAN|P46095 : USER001  
125 - 131 LILHFVF  
>GPR82\_HUMAN|Q96P67 : USER001  
144 - 150 KKFRQPN  
>GPR83\_HUMAN|Q9NYM4 : USER001  
281 - 287 FALRRKK  
>GPR84\_HUMAN|Q9NQS5 : USER001  
215 - 221 YKLRQAS  
383 - 389 SILKRGF  
>GPR87\_HUMAN|Q9BY21 : USER001  
193 - 199 SKLKSPL  
>GPR92\_HUMAN|Q9H1C0 : USER001  
82 - 88 YALHHWP  
157 - 163 ARVHRPS  
>GPR97\_HUMAN|Q86Y34 : USER001  
366 - 372 LAVRVFN  
>GPR98\_HUMAN|Q8WXG9 : USER001  
995 - 1001 LRIRRND  
1541 - 1547 FILKLVS  
4609 - 4615 FIIKLHL  
>GPS2\_HUMAN|Q13227 : USER001  
230 - 236 YAVHGHF

>GPSM1\_HUMAN|Q86YR5 : USER001  
288 - 294 YHLRHLL

>GPSM2\_HUMAN|P81274 : USER001  
297 - 303 YHLKHLA

>GPTC1\_HUMAN|Q9BRR8 : USER001  
47 - 53 KRFHGAF  
236 - 242 LAYKGLD

>GPTC2\_HUMAN|Q9NW75 : USER001  
215 - 221 KIIRQGP

>GPTC3\_HUMAN|Q96I76 : USER001  
27 - 33 AHLRSYF  
47 - 53 FHYRHRP

>GPTC4\_HUMAN|Q5T3I0 : USER001  
183 - 189 ARLKGQD

>GPTC8\_HUMAN|Q9UKJ3 : USER001  
413 - 419 HRLHQKS  
616 - 622 KIYRSQS

>GPV\_HUMAN|P40197 : USER001  
308 - 314 AAFRNLS

>GRAM3\_HUMAN|Q96HH9 : USER001  
333 - 339 HKVKSQK

>GRB14\_HUMAN|Q14449 : USER001  
137 - 143 LILKNHY

>GRB1L\_HUMAN|Q9C091 : USER001  
958 - 964 LIIRVPS  
1863 - 1869 KKFKFLK

>GRB7\_HUMAN|Q14451 : USER001  
331 - 337 AAFRLFk

>GRDN\_HUMAN|Q3V6T2 : USER001  
839 - 845 KRLRQQA

>GREB1\_HUMAN|Q4ZG55 : USER001  
968 - 974 AHVRARL  
1889 - 1895 KKFHFLK

>GRIA1\_HUMAN|P42261 : USER001  
40 - 46 AAFRFAL

>GRIA2\_HUMAN|P42262 : USER001  
228 - 234 KHVKGYH

>GRIA4\_HUMAN|P48058 : USER001  
230 - 236 KHVKGYH

>GRID1\_HUMAN|Q9ULK0 : USER001  
461 - 467 KRYKGFS  
826 - 832 LKLHSFA

>GRIK1\_HUMAN|P39086 : USER001

857 - 863 FIYKSRK

>GRIK2\_HUMAN|Q13002 : USER001

199 - 205 LKIRQLP

>GRIK3\_HUMAN|Q13003 : USER001

58 - 64 HAFRFSA

202 - 208 LKIRQLP

>GRIN2\_HUMAN|O60269 : USER001

358 - 364 AALHVFP

>GRIP1\_HUMAN|Q9Y3R0 : USER001

37 - 43 LAVRRQS

340 - 346 LALKGPD

572 - 578 FHVKLPK

>GRIP2\_HUMAN|Q9C0E4 : USER001

556 - 562 FHVKLPK

>GRLF1\_HUMAN|Q9NRY4 : USER001

543 - 549 LILKHIH

546 - 552 KHIHFVY

>GRM1A\_HUMAN|Q96CP6 : USER001

489 - 495 ARLRVSS

>GRM1B\_HUMAN|Q3KR37 : USER001

569 - 575 AHLRVPH

593 - 599 HRIKHVA

>GRM1C\_HUMAN|Q8IYS0 : USER001

621 - 627 HRLKGVV

>GRM4\_HUMAN|Q14833 : USER001

267 - 273 KIIRLL

>GRM8\_HUMAN|O00222 : USER001

264 - 270 KIIKRL

>GRP3\_HUMAN|Q8IV61 : USER001

81 - 87 WILKFPA

>GRP75\_HUMAN|P38646 : USER001

143 - 149 KIVRASN

>GRPE2\_HUMAN|Q8TAA5 : USER001

62 - 68 LRVKAVK

152 - 158 AKLKSVF

>GRPR\_HUMAN|P30550 : USER001

344 - 350 LIIRSHS

>GRSF1\_HUMAN|Q12849 : USER001

429 - 435 SHVHHRY

>GRWD1\_HUMAN|Q9BQ67 : USER001

178 - 184 FALRLL

>GSCR2\_HUMAN|Q9NZM5 : USER001

369 - 375 FRLRGIK

457 - 463 AKFKRKY  
>GSE1\_HUMAN|Q14687 : USER001  
274 - 280 SALRSPF  
>GSH1\_HUMAN|P48506 : USER001  
32 - 38 HIYHAVK  
63 - 69 KKVRLVL  
>GSLG1\_HUMAN|Q92896 : USER001  
15 - 21 AALHLLL  
516 - 522 KHIRSGD  
1100 - 1106 KRVRLQP  
>GSTM1\_HUMAN|P09488 : USER001  
15 - 21 HAIRLLL  
>GSTM3\_HUMAN|P21266 : USER001  
19 - 25 HAIRLLL  
>GSTM4\_HUMAN|Q03013 : USER001  
15 - 21 HAIRLLL  
>GSTM5\_HUMAN|P46439 : USER001  
15 - 21 HAIRLLL  
>GSX1\_HUMAN|Q9H4S2 : USER001  
37 - 43 HALHGLS  
>GT2D1\_HUMAN|Q9UHL9 : USER001  
173 - 179 LAFRRPA  
194 - 200 HRIRFKL  
198 - 204 FKLKRPL  
732 - 738 KRIKSNP  
>GTDC1\_HUMAN|Q4AE62 : USER001  
440 - 446 AALHGKF  
>GTF2I\_HUMAN|P78347 : USER001  
182 - 188 FIIKRPF  
793 - 799 KILRNKA  
>GTPB1\_HUMAN|O00178 : USER001  
36 - 42 ARLHGGF  
466 - 472 KKIKRSS  
>GTPB2\_HUMAN|Q9BX10 : USER001  
70 - 76 YKLKLVN  
305 - 311 LALKVPF  
>GTPB3\_HUMAN|Q969Y2 : USER001  
113 - 119 FHVHGGP  
>GTPB5\_HUMAN|Q9H4K7 : USER001  
66 - 72 KKLKRYF  
383 - 389 LHLKVLY  
>GTPB6\_HUMAN|O43824 : USER001  
264 - 270 LILHVRD



>GTPBA\_HUMAN|A4D1E9 : USER001  
78 - 84 SALKGSK

>GTR2\_HUMAN|P11168 : USER001  
40 - 46 SHYRHVL  
261 - 267 KRLRGYD

>GTR8\_HUMAN|Q9NY64 : USER001  
220 - 226 AALRFLW  
403 - 409 LHVKGVA

>GUC2C\_HUMAN|P25092 : USER001  
389 - 395 KKYKVLL

>GUC2D\_HUMAN|Q02846 : USER001  
1016 - 1022 YRIHVNL

>GUC2F\_HUMAN|P51841 : USER001  
1020 - 1026 YRIHVSL

>GZF1\_HUMAN|Q9H116 : USER001  
384 - 390 KKFKRKK

>H12\_HUMAN|P16403 : USER001  
78 - 84 SRIKLGL

>H13\_HUMAN|P16402 : USER001  
79 - 85 SRIKLGL

>H14\_HUMAN|P10412 : USER001  
78 - 84 SRIKLGL

>H15\_HUMAN|P16401 : USER001  
81 - 87 SRIKLGL

>H1BP3\_HUMAN|Q53T59 : USER001  
50 - 56 AAFKSAK

>H1T\_HUMAN|P22492 : USER001  
82 - 88 SRIKLSL

>H2AW\_HUMAN|Q9P0M6 : USER001  
304 - 310 KKLKSV A

>H2AY\_HUMAN|O75367 : USER001  
304 - 310 KKLKSIA  
329 - 335 LILKAIS

>H2B1A\_HUMAN|Q96A08 : USER001  
42 - 48 YIYKVLK

>HABP2\_HUMAN|Q14520 : USER001  
467 - 473 AKVKLIA

>HACE1\_HUMAN|Q8IYU2 : USER001  
517 - 523 HIIKAQP

>HACL1\_HUMAN|Q9UJ83 : USER001  
285 - 291 WILHFGL

>HAIR\_HUMAN|O43593 : USER001  
406 - 412 ARLRALK

>HAOX2\_HUMAN|Q9NYQ3 : USER001  
43 - 49 KRIRLRP

>HAP1\_HUMAN|P54257 : USER001  
637 - 643 AHYRRQL

>HASP\_HUMAN|Q8TF76 : USER001  
101 - 107 WKLRARP

>HB21\_HUMAN|P01918 : USER001  
249 - 255 LIIHRS

>HB22\_HUMAN|P01919 : USER001  
249 - 255 LIIRQRS

>HB23\_HUMAN|P05537 : USER001  
249 - 255 LIIHRS

>HB24\_HUMAN|P01920 : USER001  
249 - 255 LIIHRS

>HB25\_HUMAN|P03992 : USER001  
249 - 255 LIIRQRS

>HBG1\_HUMAN|P69891 : USER001  
115 - 121 LAIHFGK

>HBG2\_HUMAN|P69892 : USER001  
115 - 121 LAIHFGK

>HBP1\_HUMAN|O60381 : USER001  
416 - 422 KAVKNHS

>HCFC1\_HUMAN|P51610 : USER001  
1216 - 1222 SKVRLSS

>HCFC2\_HUMAN|Q9Y5Z7 : USER001  
649 - 655 YRFRVAA

>HDA11\_HUMAN|Q96DB2 : USER001  
160 - 166 LAIKFLF

>HDAC1\_HUMAN|Q13547 : USER001  
120 - 126 SAVKLNK

>HDAC4\_HUMAN|P56524 : USER001  
250 - 256 LKLRSL

>HDAC5\_HUMAN|Q9UQL6 : USER001  
263 - 269 LKVRSRL  
811 - 817 LAFKVAA

>HDAC6\_HUMAN|Q9UBN7 : USER001  
242 - 248 HRIRRVL

>HDAC7\_HUMAN|Q9UFU7 : USER001  
648 - 654 LAFKVAS

>HDAC8\_HUMAN|Q9BY41 : USER001  
163 - 169 LRLRRKF

>HDAC9\_HUMAN|Q9UKV0 : USER001  
224 - 230 LKVRSRL

>HDD1A\_HUMAN|Q08623 : USER001  
84 - 90 LIIHLRK

>HDGR2\_HUMAN|Q7Z4V5 : USER001  
524 - 530 KKIRRYK

>HDHD2\_HUMAN|Q9H0R4 : USER001  
33 - 39 KRLRGAS

>HDHD3\_HUMAN|Q9BSH5 : USER001  
19 - 25 LRLRHPL

>HD\_HUMAN|P42858 : USER001  
785 - 791 SRFHVGD  
1943 - 1949 SAVHRNS  
2239 - 2245 SHLHLPP

>HEAT1\_HUMAN|Q9H583 : USER001  
121 - 127 FHIHLYN  
725 - 731 FAIRVFS  
798 - 804 YALKAPK

>HEAT2\_HUMAN|Q86Y56 : USER001  
95 - 101 LAVHLLD  
221 - 227 WKVRVAA

>HEAT3\_HUMAN|Q7Z4Q2 : USER001  
517 - 523 SALRALL

>HEAT4\_HUMAN|Q86WZ0 : USER001  
8 - 14 YRLHRKS  
730 - 736 WKIKAFA  
923 - 929 SKVRSSL

>HEBP1\_HUMAN|Q9NRV9 : USER001  
96 - 102 KKLKWWF

>HECD1\_HUMAN|Q9ULT8 : USER001  
667 - 673 SIIRGRD  
1065 - 1071 FIFRHQH

>HECD2\_HUMAN|Q5U5R9 : USER001  
628 - 634 SIYKQFA

>HECW1\_HUMAN|Q76N89 : USER001  
1100 - 1106 AAIRSQH  
1229 - 1235 AKLRNFY  
1546 - 1552 AALRGSN

>HECW2\_HUMAN|Q9P2P5 : USER001  
1195 - 1201 AKLRNFY

>HEG1\_HUMAN|Q9ULI3 : USER001  
1283 - 1289 LIFKSGD

>HELC1\_HUMAN|Q8N3C0 : USER001  
29 - 35 LKIKRSK  
49 - 55 KIIKFLN

1161 - 1167 HILHHVN

1362 - 1368 AIFRVFN

1970 - 1976 HHLHLFK

>HELZ\_HUMAN|P42694 : USER001

1898 - 1904 SALRAPP

>HEM1\_HUMAN|P13196 : USER001

354 - 360 YIFRHND

>HEM2\_HUMAN|P13716 : USER001

233 - 239 LALRAVD

>HEMO\_HUMAN|P02790 : USER001

99 - 105 AAFRQGH

>HEN2\_HUMAN|Q02577 : USER001

76 - 82 AKYRSAH

>HEP2\_HUMAN|P05546 : USER001

179 - 185 SILHFKD

>HERC2\_HUMAN|Q86YY7 : USER001

138 - 144 LRLKQRL

1532 - 1538 SKFKLLS

2446 - 2452 ARVKRRK

2978 - 2984 SKIKVPS

>HERC3\_HUMAN|Q15034 : USER001

362 - 368 HIVKQIF

704 - 710 LHVRRNN

>HERC5\_HUMAN|Q9UII4 : USER001

575 - 581 KKLHRVN

640 - 646 SKIKLLH

>HERP2\_HUMAN|Q9BSE4 : USER001

12 - 18 LIKAPN

>HES7\_HUMAN|Q9BYE0 : USER001

120 - 126 SALHGYL

>HESX1\_HUMAN|Q9UBX0 : USER001

161 - 167 AKLKRSH

>HEY1\_HUMAN|Q9Y5J3 : USER001

150 - 156 LRVRLVS

>HEY2\_HUMAN|Q9UBP5 : USER001

149 - 155 LRVRLVS

187 - 193 AAFHHLP

>HGD\_HUMAN|Q93099 : USER001

382 - 388 SKVKLAP

>HGFA\_HUMAN|Q04756 : USER001

218 - 224 ARVRQGH

>HGF\_HUMAN|Q9UDU6 : USER001

511 - 517 LRYRNKH

>HHATL\_HUMAN|Q9HCP6 : USER001  
245 - 251 WHIRAQA

>HHIP\_HUMAN|Q96QV1 : USER001  
46 - 52 KRLKRRD

>HHLA2\_HUMAN|Q9UM44 : USER001  
69 - 75 YKVHSYY

>HIBCH\_HUMAN|Q6NVY1 : USER001  
200 - 206 FRLKGRD  
230 - 236 LALKSPS

>HIC2\_HUMAN|Q96JB3 : USER001  
55 - 61 SIFRAHK

>HILS1\_HUMAN|P60008 : USER001  
155 - 161 YHFKRVL

>HIP1R\_HUMAN|O75146 : USER001  
921 - 927 SKVKANK

>HIPK1\_HUMAN|Q86Z02 : USER001  
219 - 225 KILKNHP  
331 - 337 YRVKVID  
959 - 965 SALRGNS

>HIPK2\_HUMAN|Q9H2X6 : USER001  
228 - 234 KILKNHP  
340 - 346 YRVKVID  
1139 - 1145 SIVHQVP

>HIPK3\_HUMAN|Q9H422 : USER001  
226 - 232 KILKNHP  
338 - 344 YRVKVID

>HIPK4\_HUMAN|Q8NE63 : USER001  
152 - 158 FRVKVID  
340 - 346 AALRHPF

>HIPL1\_HUMAN|Q96JK4 : USER001  
720 - 726 YAVRAVK

>HIPL2\_HUMAN|Q6UWX4 : USER001  
393 - 399 KRYRVPS  
455 - 461 LILKGGN  
593 - 599 SIYKFVD

>HIRA\_HUMAN|P54198 : USER001  
125 - 131 SILRNHS

>HIRP3\_HUMAN|Q9BW71 : USER001  
27 - 33 SIVRRRY  
92 - 98 KRFRFNS

>HKDC1\_HUMAN|Q2TB90 : USER001  
88 - 94 SKFRVLK

>HLTF\_HUMAN|Q14527 : USER001

560 - 566 HAIRNPN

648 - 654 SKIKGKP

>HLX\_HUMAN|Q14774 : USER001

117 - 123 AAYHHHH

>HMBX1\_HUMAN|Q6NT76 : USER001

264 - 270 FRLRRGS

>HMCN1\_HUMAN|Q96RW7 : USER001

219 - 225 SKVHLLS

1353 - 1359 LKVHVPP

3387 - 3393 SHIRLLA

>HMCS1\_HUMAN|Q01581 : USER001

238 - 244 KKIHAQW

>HNF6\_HUMAN|Q9UBC0 : USER001

363 - 369 SALRLAA

>HNRGT\_HUMAN|O75526 : USER001

182 - 188 LAVRGRD

>HNRL1\_HUMAN|Q9BUJ2 : USER001

437 - 443 WAIKHAA

>HNRPQ\_HUMAN|O60506 : USER001

122 - 128 AKIKALL

335 - 341 AKVKVLF

>HNRPR\_HUMAN|O43390 : USER001

125 - 131 AKIKALL

338 - 344 AKVKVLF

>HOME2\_HUMAN|Q9NSB8 : USER001

315 - 321 SKYRQRH

>HOMEZ\_HUMAN|Q8IX15 : USER001

109 - 115 LHFKSLL

345 - 351 AILKSFF

>HOOK1\_HUMAN|Q9UJC3 : USER001

71 - 77 WRIKASN

381 - 387 LHVKLSS

544 - 550 SKLKQKL

>HOOK2\_HUMAN|Q96ED9 : USER001

65 - 71 WKLKVS

>HOOK3\_HUMAN|Q86VS8 : USER001

78 - 84 KILKGIL

>HORN\_HUMAN|Q86YZ3 : USER001

308 - 314 SHVRHGS

777 - 783 SRVRHGS

>HPBP1\_HUMAN|Q9NZL4 : USER001

249 - 255 LKVKSAF

>HPDL\_HUMAN|Q96IR7 : USER001

45 - 51 LALRSGD

>HPLN3\_HUMAN|Q96S86 : USER001

303 - 309 WKFHGLD

>HPS1\_HUMAN|Q92902 : USER001

480 - 486 AIYRLNF

>HPS5\_HUMAN|Q9UPZ3 : USER001

959 - 965 LILHLIK

>HPS6\_HUMAN|Q86YV9 : USER001

132 - 138 AALRGRL

>HRBL\_HUMAN|O95081 : USER001

81 - 87 HRVKSIS

>HRH1\_HUMAN|P35367 : USER001

392 - 398 KRLRSHS

>HRX\_HUMAN|Q03164 : USER001

271 - 277 KKLKAGK

1661 - 1667 LRYRQAA

3704 - 3710 ARLKQLS

3743 - 3749 YKFRFHK

>HS105\_HUMAN|Q92598 : USER001

68 - 74 KRFHGRA

258 - 264 SKIRALL

>HS12A\_HUMAN|O43301 : USER001

371 - 377 FKIKRPA

414 - 420 KKFRGHS

>HS12B\_HUMAN|Q96MM6 : USER001

253 - 259 LRLHQLL

>HS74L\_HUMAN|O95757 : USER001

68 - 74 KKLHGRS

>HS90A\_HUMAN|P07900 : USER001

324 - 330 LAVKHFS

>HS90B\_HUMAN|P08238 : USER001

316 - 322 LAVKHFS

>HSF2B\_HUMAN|O75031 : USER001

100 - 106 LALRQQL

149 - 155 KALKFFS

>HSF4\_HUMAN|Q9ULV5 : USER001

432 - 438 LAVKGLN

>HSFY1\_HUMAN|Q96LI6 : USER001

170 - 176 SKLKFYF

214 - 220 KHFRAGA

>HSP74\_HUMAN|P34932 : USER001

68 - 74 KRFHGRA

258 - 264 SKIRALL

>HSP76\_HUMAN|P17066 : USER001  
549 - 555 FHVKGSL

>HSP7E\_HUMAN|Q0VDF9 : USER001  
55 - 61 SRIRNIS

>HSPB2\_HUMAN|Q16082 : USER001  
130 - 136 WRVRAAL

>HTF9C\_HUMAN|Q8IZ69 : USER001  
124 - 130 KALRVLH  
522 - 528 LAIRRAK

>HTR5A\_HUMAN|Q86XA9 : USER001  
952 - 958 WALHSLS

>HTR5B\_HUMAN|Q9P2D3 : USER001  
660 - 666 AHLKASA  
832 - 838 SALKGLA  
1522 - 1528 LHYRNSW

>HTSF1\_HUMAN|O43719 : USER001  
168 - 174 FKVKLYK  
196 - 202 LALKLLD

>HUG1\_HUMAN|O75698 : USER001  
321 - 327 WHLRVAP

>HUTH\_HUMAN|P42357 : USER001  
366 - 372 FRFRSLL

>HUTU\_HUMAN|Q96N76 : USER001  
43 - 49 LALRNAL

>HUWE1\_HUMAN|Q9NSL6 : USER001  
279 - 285 ARLHAIS  
1044 - 1050 ARIKQIK  
1914 - 1920 LRIKGPN  
3123 - 3129 AILRSPA  
3173 - 3179 LRLRGRL  
3203 - 3209 SRLHRVL

>HV315\_HUMAN|P01776 : USER001  
97 - 103 ARFRQPF

>HXA4\_HUMAN|Q00056 : USER001  
199 - 205 KKIHVSA

>HXB13\_HUMAN|Q92826 : USER001  
276 - 282 AKVKNSA

>HXB3\_HUMAN|P14651 : USER001  
140 - 146 SKLKNNS

>HXD12\_HUMAN|P35452 : USER001  
126 - 132 AALKAAK

>HXD4\_HUMAN|P09016 : USER001  
138 - 144 KKVHVNS



>HXD8\_HUMAN|P13378 : USER001  
11 - 17 SKYKAAA

>HXK3\_HUMAN|P52790 : USER001  
363 - 369 ARVHAIL

>HYAL4\_HUMAN|Q2M3T9 : USER001  
27 - 33 FILKSYS

>HYALP\_HUMAN|P38567 : USER001  
4 - 10 LKFKHIF

>HYDIN\_HUMAN|Q9NTI0 : USER001  
120 - 126 LILRNND  
929 - 935 YHFKLIN  
1075 - 1081 LAIKNIS  
3906 - 3912 FKVKFSP

>HYEP\_HUMAN|Q9NQV0 : USER001  
241 - 247 SHVKGLH

>HYOU1\_HUMAN|Q9Y4L1 : USER001  
428 - 434 KAFKVKP

>I10R1\_HUMAN|Q13651 : USER001  
98 - 104 ARVRAVD

>I11RA\_HUMAN|Q14626 : USER001  
254 - 260 LKFRLQY  
289 - 295 HAVRVSA

>I12R2\_HUMAN|Q99665 : USER001  
296 - 302 SKLHLYK

>I17RA\_HUMAN|Q96F46 : USER001  
133 - 139 SKLRHHH  
690 - 696 AAVRLAL

>I17RC\_HUMAN|Q8NAC3 : USER001  
161 - 167 LAVHGHW

>I17RD\_HUMAN|Q8NFM7 : USER001  
232 - 238 LHYKCLKH  
509 - 515 SHLHSRD

>I17RE\_HUMAN|Q8NFR9 : USER001  
374 - 380 LILHFSS

>I18RA\_HUMAN|O95256 : USER001  
529 - 535 KALRVLP

>I20RA\_HUMAN|Q9UHF4 : USER001  
110 - 116 AKVKAIW

>I20RB\_HUMAN|Q6UXL0 : USER001  
125 - 131 SILKHPF

>I23O\_HUMAN|P14902 : USER001  
176 - 182 SAIKVIP

>I27RA\_HUMAN|Q6UWB1 : USER001

504 - 510 LRLHLPD  
>I2C1\_HUMAN|Q9UL18 : USER001  
811 - 817 ARYHLVD  
>I2C2\_HUMAN|Q9UKV8 : USER001  
755 - 761 SHYHVLW  
805 - 811 ARYHLVD  
>I2C3\_HUMAN|Q9H9G7 : USER001  
764 - 770 SHYHVLW  
814 - 820 ARYHLVD  
>I2C4\_HUMAN|Q9HCK5 : USER001  
815 - 821 ARYHLVD  
>IAG2\_HUMAN|Q9H0U3 : USER001  
319 - 325 SIFRSKY  
323 - 329 SKYHGYD  
>IBP3\_HUMAN|P17936 : USER001  
121 - 127 SRLRAYL  
>IBPL1\_HUMAN|Q8WX77 : USER001  
128 - 134 LRLRARH  
264 - 270 SKYRSFH  
>IBTK\_HUMAN|Q8TAI4 : USER001  
333 - 339 SALHHKD  
>ICA69\_HUMAN|Q05084 : USER001  
128 - 134 LALRNPL  
>ICOSL\_HUMAN|O75144 : USER001  
78 - 84 SRYRNRA  
>IDD\_HUMAN|P98153 : USER001  
95 - 101 SHFHAVN  
>IDE\_HUMAN|P14735 : USER001  
242 - 248 LKFHSAY  
889 - 895 LAIRRLD  
>IDH3G\_HUMAN|P51553 : USER001  
71 - 77 LHVKSVD  
339 - 345 LKLHSLA  
>IDHP\_HUMAN|P48735 : USER001  
42 - 48 KRIKVAK  
>IDS\_HUMAN|P22304 : USER001  
109 - 115 WRVHAGN  
440 - 446 KHFRFRD  
>IDUA\_HUMAN|P35475 : USER001  
458 - 464 LRLRGVP  
618 - 624 YRVRALD  
>IER2\_HUMAN|Q9BTL4 : USER001  
28 - 34 LRLHRSL

>IF122\_HUMAN|Q9HBG6 : USER001  
395 - 401 AIYRNRL

>IF140\_HUMAN|Q96RY7 : USER001  
298 - 304 AALRFWD  
541 - 547 AHFKSFD

>IF16\_HUMAN|Q16666 : USER001  
87 - 93 LKVKGPA  
240 - 246 FHVKVLN  
611 - 617 FRVKVFN  
756 - 762 SHIKVIK

>IF2A\_HUMAN|P05198 : USER001  
110 - 116 SILRHVA

>IF2B1\_HUMAN|Q9NZI8 : USER001  
147 - 153 HALKVSY

>IF2B2\_HUMAN|Q9Y6M1 : USER001  
77 - 83 KKLRSRK  
405 - 411 AHIKQLA  
469 - 475 AHIRVPS

>IF2B3\_HUMAN|O00425 : USER001  
490 - 496 AHIRVPS

>IF2G\_HUMAN|P41091 : USER001  
282 - 288 SILKGVL

>IF2P\_HUMAN|O60841 : USER001  
913 - 919 LRVKNQY

>IF3EI\_HUMAN|Q9Y262 : USER001  
278 - 284 LRLHSL

>IF4E2\_HUMAN|O60573 : USER001  
135 - 141 WIIRLRK

>IF4G2\_HUMAN|P78344 : USER001  
292 - 298 ARIRFLL

>IF5\_HUMAN|P55010 : USER001  
140 - 146 FILKNPP  
294 - 300 KKYRRHF

>IFIH1\_HUMAN|Q9BYX4 : USER001  
894 - 900 KHYKNNP

>IFIT1\_HUMAN|P09914 : USER001  
62 - 68 KHLKGQN  
223 - 229 LALKLQD

>IFIT2\_HUMAN|P09913 : USER001  
61 - 67 KHLKGQN  
215 - 221 LALKLHK

>IFIT5\_HUMAN|Q13325 : USER001  
61 - 67 KHLKGQN

221 - 227 LALKLQD

323 - 329 AIFHFKA

>IFN10\_HUMAN|P01566 : USER001

183 - 189 KRLRRKD

>IFN14\_HUMAN|P01570 : USER001

183 - 189 KRLRRKD

>IFN17\_HUMAN|P01571 : USER001

183 - 189 KILRRKD

>IFNA4\_HUMAN|P05014 : USER001

183 - 189 KRLRRKD

>IFNB\_HUMAN|P01574 : USER001

141 - 147 LHLKRY Y

>IFT1L\_HUMAN|Q5T764 : USER001

62 - 68 KHLKGQN

223 - 229 LALKLQD

>IFT52\_HUMAN|Q9Y366 : USER001

30 - 36 KKLRSNW

>IFT80\_HUMAN|Q9P2H3 : USER001

716 - 722 LAYRQKF

>IFT88\_HUMAN|Q13099 : USER001

106 - 112 AALRGSA

542 - 548 LKLHAIL

546 - 552 AILRNSA

764 - 770 ARLRALP

>IGHA1\_HUMAN|P01876 : USER001

296 - 302 SILRVAA

>IGHA2\_HUMAN|P01877 : USER001

283 - 289 SILRVAA

>IGS10\_HUMAN|Q6WRI0 : USER001

402 - 408 YKYKQVA

515 - 521 SKVRAPY

2151 - 2157 KRIKAGD

>IGS22\_HUMAN|Q8N9C0 : USER001

625 - 631 AHIKVPF

872 - 878 FRIRAVN

>IGSF2\_HUMAN|Q93033 : USER001

401 - 407 SHVHLRK

674 - 680 SKLKVNS

811 - 817 SKVRVSK

>IGSF5\_HUMAN|Q9NSI5 : USER001

128 - 134 SRLHGSA

>IGSF8\_HUMAN|Q969P0 : USER001

527 - 533 HRLRLHS

>IHH\_HUMAN|Q14623 : USER001  
47 - 53 LAYKQFS

>IKKB\_HUMAN|O14920 : USER001  
233 - 239 SKVRQKS  
603 - 609 KKVRVIY

>IKKE\_HUMAN|Q14164 : USER001  
552 - 558 FIYKQFK

>IL11\_HUMAN|P20809 : USER001  
187 - 193 WAVRGLL

>IL16\_HUMAN|Q14005 : USER001  
127 - 133 SHIRASS

>IL1A\_HUMAN|P01583 : USER001  
143 - 149 SIIRAND  
155 - 161 AALHNLD

>IL1F5\_HUMAN|Q9UBH0 : USER001  
14 - 20 SALKVLY

>IL1R1\_HUMAN|P14778 : USER001  
72 - 78 SRIHQHK  
126 - 132 AIFKQKL

>IL21\_HUMAN|Q9HBE4 : USER001  
94 - 100 KKLKRKP

>IL28A\_HUMAN|Q8IZJ0 : USER001  
29 - 35 ARLHGAL

>IL28B\_HUMAN|Q8IZI9 : USER001  
29 - 35 ARLRGAL

>IL29\_HUMAN|Q8IU54 : USER001  
61 - 67 LKLKNWS

>IL2RG\_HUMAN|P31785 : USER001  
221 - 227 FRVRSRF

>IL31R\_HUMAN|Q8NI17 : USER001  
126 - 132 KIFRVKP

>IL3RB\_HUMAN|P32927 : USER001  
468 - 474 YRLRRKW  
875 - 881 KALKQQD

>IL3\_HUMAN|P08700 : USER001  
95 - 101 SILKNLL

>IL4RA\_HUMAN|Q9H187 : USER001  
199 - 205 ARVRAWA

>IL5RA\_HUMAN|Q01344 : USER001  
231 - 237 FALHAID

>IL6RA\_HUMAN|P08887 : USER001  
392 - 398 WKLRALK

>IL6\_HUMAN|P05231 : USER001

193 - 199 LILRSFK

>ILEU\_HUMAN|P30740 : USER001

84 - 90 YILKLAN

>ILF3\_HUMAN|Q9NRN2 : USER001

320 - 326 HALRLAA

>ILRL1\_HUMAN|Q01638 : USER001

157 - 163 SRYRAHK

>ILRL2\_HUMAN|Q9HB29 : USER001

104 - 110 HRIHVNL

>IMA1\_HUMAN|P52294 : USER001

9 - 15 FRLKSYK

>IMA2\_HUMAN|P52292 : USER001

12 - 18 ARLHRFK

>IMA3\_HUMAN|O00505 : USER001

10 - 16 HRIKSFK

>IMP3\_HUMAN|Q9NV31 : USER001

71 - 77 FRVRASA

>IMPA3\_HUMAN|Q9NX62 : USER001

73 - 79 AAVRGGD

>IMPG1\_HUMAN|Q17R60 : USER001

306 - 312 AIFKRHS

651 - 657 KAVHGVN

>INADL\_HUMAN|Q5VUA9 : USER001

405 - 411 AAYHNGH

783 - 789 YILHSSS

1312 - 1318 SKVKLVF

>INAR1\_HUMAN|P17181 : USER001

188 - 194 KIYKLSP

200 - 206 LKVKAAL

>INAR2\_HUMAN|P48551 : USER001

8 - 14 FIFRSLN

>INCE\_HUMAN|Q9NQS7 : USER001

747 - 753 KALRLQK

859 - 865 AIIHQYY

>INF2\_HUMAN|Q27J81 : USER001

874 - 880 SAFRALD

>ING4\_HUMAN|Q9UNL4 : USER001

95 - 101 KHIRRLD

>ING5\_HUMAN|Q8WYH8 : USER001

95 - 101 KHIRRLD

>INGR2\_HUMAN|P38484 : USER001

155 - 161 LIIRFSS

>INHA\_HUMAN|P05111 : USER001

31 - 37 AKVRALF

>INHBB\_HUMAN|P09529 : USER001

155 - 161 SRVRLYF

>INMT\_HUMAN|O95050 : USER001

133 - 139 AAVKRVL

>INOC1\_HUMAN|Q9ULG1 : USER001

167 - 173 KKLHQNK

216 - 222 KKLKAKL

479 - 485 AALRAAN

>INP4A\_HUMAN|Q96PE3 : USER001

689 - 695 FIIKLRN

>INP5E\_HUMAN|Q9NRR6 : USER001

219 - 225 YKLRAQP

591 - 597 FRVKVRP

>INSC\_HUMAN|Q1MX18 : USER001

538 - 544 AALRRLA

>INSM1\_HUMAN|Q01101 : USER001

374 - 380 KKFRRQA

>INSRR\_HUMAN|P14616 : USER001

382 - 388 LKIKHSF

>INSR\_HUMAN|P06213 : USER001

395 - 401 LKIRRSY

>INT11\_HUMAN|Q9BW36 : USER001

303 - 309 KHIKAFD

532 - 538 SHLKSVL

>INT2\_HUMAN|Q9H0H0 : USER001

70 - 76 LILRLLS

202 - 208 LHVRNGA

>INT5\_HUMAN|Q6P9B9 : USER001

390 - 396 LAVHLVS

659 - 665 LRLHGPP

>INT6\_HUMAN|Q9UL03 : USER001

60 - 66 YAIKAGW

>INT7\_HUMAN|Q9NVH2 : USER001

193 - 199 LKLKLIP

266 - 272 KAVKRLA

>INT8\_HUMAN|Q75QN2 : USER001

84 - 90 LALKVAA

204 - 210 AALKLNK

523 - 529 WRIRQIL

640 - 646 SRVRGYL

>INT9\_HUMAN|Q9NV88 : USER001

643 - 649 LRVRLRD

>IP6K1\_HUMAN|Q92551 : USER001  
313 - 319 SKLRGLK

>IPO13\_HUMAN|O94829 : USER001  
28 - 34 KALHQLY

>IPO4\_HUMAN|Q8TEX9 : USER001  
340 - 346 LALHLPP

>IPO9\_HUMAN|Q96P70 : USER001  
71 - 77 LAIRQLA  
536 - 542 SAVRAIW

>IPPK\_HUMAN|Q9H8X2 : USER001  
195 - 201 FALKSLL

>IQCB1\_HUMAN|Q15051 : USER001  
426 - 432 AALKFLA

>IQCC\_HUMAN|Q4KMZ1 : USER001  
249 - 255 HRVKSPH

>IQCE\_HUMAN|Q6IPM2 : USER001  
118 - 124 FRVKRPH  
376 - 382 SALHRQP  
551 - 557 AAFRGHL  
610 - 616 SALRAHL

>IQCF1\_HUMAN|Q8N6M8 : USER001  
138 - 144 WRIRRRY

>IQCH\_HUMAN|Q86VS3 : USER001  
128 - 134 AKIKVSK  
430 - 436 FRIRAKH  
515 - 521 AAVKSGN  
559 - 565 KAIKRIK

>IQCK\_HUMAN|Q8N0W5 : USER001  
10 - 16 HIVRLKP

>IQEC2\_HUMAN|Q5JU85 : USER001  
574 - 580 FRLRAAH

>IQGA1\_HUMAN|P46940 : USER001  
238 - 244 AALKNPN  
644 - 650 SALRSPD

>IQGA3\_HUMAN|Q86VI3 : USER001  
739 - 745 ARLRGFL

>IQUB\_HUMAN|Q8NA54 : USER001  
739 - 745 HKIKHKH

>IQWD1\_HUMAN|Q58WW2 : USER001  
25 - 31 SRLRSRY  
667 - 673 ARYRAGP

>IRAK1\_HUMAN|P51617 : USER001  
236 - 242 YAVKRLK



264 - 270 SRFRHPN

597 - 603 AALRSWH

>IRAK3\_HUMAN|Q9Y616 : USER001

189 - 195 YAVKLFK

315 - 321 AHFRSHL

>IRBP\_HUMAN|P10745 : USER001

1235 - 1241 LRVKRSP

>IRF8\_HUMAN|Q02556 : USER001

55 - 61 SIFKAWA

>IRF9\_HUMAN|Q00978 : USER001

63 - 69 AIFKGKY

>IRGQ\_HUMAN|Q8WZA9 : USER001

475 - 481 AALRAGA

>IRK10\_HUMAN|P78508 : USER001

64 - 70 WRYKLLL

>IRK12\_HUMAN|Q14500 : USER001

226 - 232 AHVRAQL

>IRK14\_HUMAN|Q9UNX9 : USER001

230 - 236 AHVRAQL

>IRK2\_HUMAN|P63252 : USER001

225 - 231 AHVRAQL

>IRK3\_HUMAN|P48549 : USER001

2 - 8 SALRRKF

>IRK4\_HUMAN|P48050 : USER001

217 - 223 AHVRAQL

>IRPL2\_HUMAN|Q9NP60 : USER001

478 - 484 YILRRGW

>IRS1\_HUMAN|P35568 : USER001

324 - 330 FRVRASS

>ISK2\_HUMAN|P20155 : USER001

77 - 83 KIIRNGP

>ISL1\_HUMAN|P61371 : USER001

28 - 34 YILRVSP

>ISL2\_HUMAN|Q96A47 : USER001

38 - 44 FILRVSP

>ISLR\_HUMAN|O14498 : USER001

98 - 104 SHLKSLD

>ISX\_HUMAN|Q2M1V0 : USER001

35 - 41 AILKRPA

>ITA10\_HUMAN|O75578 : USER001

739 - 745 LHFHVLD

>ITA11\_HUMAN|Q9UKX5 : USER001

947 - 953 LRFHLKY

>ITA1\_HUMAN|P56199 : USER001  
830 - 836 LIVRSQN  
>ITA3\_HUMAN|P26006 : USER001  
400 - 406 YIYHSSS  
>ITA4\_HUMAN|P13612 : USER001  
585 - 591 AAYHLGP  
>ITA5\_HUMAN|P08648 : USER001  
936 - 942 LHFRVWA  
>ITA6\_HUMAN|P23229 : USER001  
447 - 453 FIYHGSA  
989 - 995 LILRSRL  
>ITA7\_HUMAN|Q13683 : USER001  
456 - 462 FIYHGSS  
>ITA8\_HUMAN|P53708 : USER001  
947 - 953 LKVRSRL  
>ITAD\_HUMAN|Q13349 : USER001  
951 - 957 HRYRVNN  
>ITAV\_HUMAN|P06756 : USER001  
657 - 663 LIVKAQN  
>ITAX\_HUMAN|P20702 : USER001  
868 - 874 LIFRGGA  
>ITB2\_HUMAN|P05107 : USER001  
202 - 208 FAFRHVL  
>ITB4\_HUMAN|P16144 : USER001  
106 - 112 LRVRLRP  
1598 - 1604 FRVRAQS  
1712 - 1718 YKFKVQA  
>ITB6\_HUMAN|P18564 : USER001  
109 - 115 LILKLRP  
>ITB8\_HUMAN|P26012 : USER001  
239 - 245 KAVHRQK  
534 - 540 HKIKLGK  
>ITCH\_HUMAN|Q96J02 : USER001  
79 - 85 LHFRVWS  
797 - 803 AIYRHYA  
>ITH5L\_HUMAN|Q6UXX5 : USER001  
1212 - 1218 HRYRHPS  
>ITIH4\_HUMAN|Q14624 : USER001  
211 - 217 AHIRFKP  
>ITM2A\_HUMAN|O43736 : USER001  
225 - 231 FRLRRRD  
245 - 251 WKIRHFP  
>ITM2C\_HUMAN|Q9NQX7 : USER001

228 - 234 YRLRRRA

>ITPA\_HUMAN|Q9BY32 : USER001

177 - 183 HRFRALL

>ITPR1\_HUMAN|Q14643 : USER001

124 - 130 LHLKSNK

303 - 309 FRFKHLA

2266 - 2272 KKLRAQP

>ITPR2\_HUMAN|Q14571 : USER001

124 - 130 LHIKSNK

303 - 309 FRFKHLA

707 - 713 KAIRHLA

2211 - 2217 KKIRNNP

>ITPR3\_HUMAN|Q14573 : USER001

304 - 310 YRFKHLA

1248 - 1254 KHLHLFL

1756 - 1762 LAIHLLD

2268 - 2274 LILRSIY

>ITSN1\_HUMAN|Q15811 : USER001

223 - 229 LKYRQLF

1297 - 1303 KALRVRK

1387 - 1393 LIKNIL

1404 - 1410 SHLKHAL

>ITSN2\_HUMAN|Q9NZM3 : USER001

245 - 251 LKYRQKF

1268 - 1274 KALRVRK

>IWS1\_HUMAN|Q96ST2 : USER001

358 - 364 KKFHSSD

>IYD1\_HUMAN|Q7Z7D8 : USER001

18 - 24 WIFKNAD

193 - 199 LIFKQVH

>IZUM1\_HUMAN|Q8IYV9 : USER001

311 - 317 AIFRRRK

>JAD1A\_HUMAN|P29375 : USER001

1499 - 1505 LKVKGKD

1541 - 1547 KKLKLG

>JAD1B\_HUMAN|Q9UGL1 : USER001

169 - 175 SHIRGHY

728 - 734 YKYKLRY

1436 - 1442 KKIKLSH

>JAD1C\_HUMAN|P41229 : USER001

761 - 767 HKLKVRA

>JADE2\_HUMAN|Q9NQC1 : USER001

431 - 437 WKLKRKA

>JADE3\_HUMAN|Q92613 : USER001  
434 - 440 WKLKRKS  
644 - 650 AALHGQS

>JAG2\_HUMAN|Q9Y219 : USER001  
35 - 41 SALRNVN

>JAGN1\_HUMAN|Q8N5M9 : USER001  
134 - 140 KAYRFLF

>JAK1\_HUMAN|P23458 : USER001  
603 - 609 KKIKVIL  
678 - 684 WKFKVAK

>JAK2\_HUMAN|O60674 : USER001  
114 - 120 YRIRFYF

>JAK3\_HUMAN|P52333 : USER001  
100 - 106 YRIRFYF

>JARD2\_HUMAN|Q92833 : USER001  
217 - 223 KHVHNGH

>JAZF1\_HUMAN|Q86VZ6 : USER001  
182 - 188 KRYKNVN

>JERKL\_HUMAN|Q9Y4A0 : USER001  
178 - 184 SIFRQWF

>JERKY\_HUMAN|O75564 : USER001  
89 - 95 WRFKARH

>JHD1A\_HUMAN|Q9Y2K7 : USER001  
76 - 82 LIFKNSD  
792 - 798 AKIRGSY

>JHD1B\_HUMAN|Q8NHM5 : USER001  
593 - 599 SAVKLAA  
1241 - 1247 SKLHLSY

>JHD2A\_HUMAN|Q9Y4C1 : USER001  
173 - 179 LIVKHL D

>JHD2B\_HUMAN|Q7LBC6 : USER001  
265 - 271 KAVKSSK

>JHD2C\_HUMAN|Q15652 : USER001  
634 - 640 HKIKSSP  
788 - 794 HAVHHPH  
1682 - 1688 SKLKLQS  
2433 - 2439 KCLRQRL

>JHD3A\_HUMAN|O75164 : USER001  
1012 - 1018 KRVKSRL

>JHD3B\_HUMAN|O94953 : USER001  
1032 - 1038 KRVR SRL

>JHD3C\_HUMAN|Q9H3R0 : USER001  
418 - 424 AAVKLRN

472 - 478 YAYRSVP

815 - 821 HRVKRVS

992 - 998 KRVKARF

>JHD3D\_HUMAN|Q6B0I6 : USER001

418 - 424 AAVHSSK

>JIP1\_HUMAN|Q9UQF2 : USER001

495 - 501 AIFRFVP

>JIP3\_HUMAN|Q9UPT6 : USER001

98 - 104 KALRRQA

670 - 676 AKYKQLS

>JKIP2\_HUMAN|Q96AA8 : USER001

372 - 378 KKLKSLN

>JMJD3\_HUMAN|O15054 : USER001

1087 - 1093 LKLRSLS

1100 - 1106 LKIRLIK

1146 - 1152 AKVKGKF

>JOS1\_HUMAN|Q15040 : USER001

175 - 181 HHLRGKN

>JPH4\_HUMAN|Q96JJ6 : USER001

349 - 355 LALRRGK

>JUNB\_HUMAN|P17275 : USER001

274 - 280 KRLRNRL

>K0082\_HUMAN|Q8N1G2 : USER001

722 - 728 KIIKGSS

>K0090\_HUMAN|Q8N766 : USER001

151 - 157 LALHHLS

>K0100\_HUMAN|Q14667 : USER001

1985 - 1991 LALRLFS

>K0133\_HUMAN|Q14146 : USER001

461 - 467 AKLRQVP

>K0146\_HUMAN|Q14159 : USER001

206 - 212 HKYHVQF

>K0195\_HUMAN|Q12767 : USER001

1296 - 1302 SHVHFGL

>K0220\_HUMAN|Q92617 : USER001

617 - 623 FRFHHQP

>K0226\_HUMAN|Q92622 : USER001

404 - 410 SHIRSHS

427 - 433 AKLRGPL

>K0240\_HUMAN|Q6AI39 : USER001

721 - 727 SHFRSLS

>K0241\_HUMAN|Q8NBF6 : USER001

102 - 108 LKVRQAD

>K0284\_HUMAN|Q9Y4F5 : USER001  
1029 - 1035 SAIRRGH

>K0317\_HUMAN|O15033 : USER001  
78 - 84 FRVHLFY

>K0401\_HUMAN|O43151 : USER001  
464 - 470 HALHNSL  
686 - 692 SALKGGP

>K0406\_HUMAN|O43156 : USER001  
978 - 984 LAFKLQL

>K0423\_HUMAN|Q9Y4F4 : USER001  
301 - 307 SALRRHY

>K0460\_HUMAN|Q5VT52 : USER001  
856 - 862 SILKSSK

>K0467\_HUMAN|Q9UFQ8 : USER001  
826 - 832 AHIHSSP  
2150 - 2156 FHLRLVH

>K0515\_HUMAN|Q5JSZ5 : USER001  
527 - 533 AKLKQLD

>K0543\_HUMAN|O60290 : USER001  
190 - 196 LKYHAKS

>K0552\_HUMAN|O60299 : USER001  
336 - 342 AALRRSL

>K0556\_HUMAN|O60303 : USER001  
50 - 56 KHLKSKD  
569 - 575 AKIKVRN  
1327 - 1333 KIVHVSL

>K0562\_HUMAN|O60308 : USER001  
127 - 133 LIFHQNH

>K0586\_HUMAN|Q9BVV6 : USER001  
492 - 498 AIIRAKD  
1447 - 1453 LRVRNKS

>K0649\_HUMAN|Q5T8A7 : USER001  
542 - 548 LALKAQS  
794 - 800 FRVRRPA

>K0692\_HUMAN|Q86XL3 : USER001  
70 - 76 ARLKLLN  
235 - 241 SRFKAFS

>K0746\_HUMAN|Q68CR1 : USER001  
421 - 427 YLRSLH  
540 - 546 KAVKRLS  
1048 - 1054 LHLRLLW  
1056 - 1062 AILHSAL

>K0753\_HUMAN|Q2KHM9 : USER001

120 - 126 HHLRSQP  
>K0754\_HUMAN|O94854 : USER001  
388 - 394 LHVRAKD  
601 - 607 AHFHRNF  
>K0776\_HUMAN|O94874 : USER001  
188 - 194 ARIRGLF  
>K0802\_HUMAN|Q9Y4B5 : USER001  
558 - 564 LKLRLKL  
1131 - 1137 SAFKALL  
>K0841\_HUMAN|O94927 : USER001  
57 - 63 KKIRGNL  
>K0888\_HUMAN|Q9Y6X4 : USER001  
187 - 193 KKYRGKD  
>K0895\_HUMAN|Q8NCT3 : USER001  
118 - 124 KKYHSQK  
>K0913\_HUMAN|A7E2V4 : USER001  
206 - 212 FRIHNAS  
1662 - 1668 HHLHAAAY  
>K0947\_HUMAN|Q9Y2F5 : USER001  
919 - 925 AAVKSIS  
1508 - 1514 SRLRNRP  
2187 - 2193 SAVKNIS  
>K1024\_HUMAN|Q9UPX6 : USER001  
44 - 50 AKLRSVL  
694 - 700 LRVKALK  
>K1033\_HUMAN|Q2M389 : USER001  
1056 - 1062 YILKLLD  
>K1045\_HUMAN|Q9UPV7 : USER001  
224 - 230 LRYRHQA  
392 - 398 AAIHLKP  
>K1086\_HUMAN|Q9UPR6 : USER001  
336 - 342 AHIRGSK  
347 - 353 FKLHAKL  
>K1109\_HUMAN|Q9NT48 : USER001  
248 - 254 HIVKGKL  
817 - 823 YKVHGRL  
1825 - 1831 HRVHGQL  
2251 - 2257 LKIKGIH  
2317 - 2323 AAVKSSS  
2802 - 2808 KRIHGSF  
3590 - 3596 KKLRRSS  
3761 - 3767 AAVHQLF  
>K1161\_HUMAN|Q6NSJ0 : USER001

21 - 27 YAYRQNP  
113 - 119 LAFRSGA  
235 - 241 AAIKVND  
608 - 614 AALRASL  
>K1191\_HUMAN|Q96A73 : USER001  
153 - 159 HKLKLQS  
>K1199\_HUMAN|Q8WUJ3 : USER001  
697 - 703 FIFHHVP  
906 - 912 LAFRLNN  
1140 - 1146 LKLKAQN  
>K1210\_HUMAN|Q9ULL0 : USER001  
593 - 599 SALKRGs  
>K1219\_HUMAN|Q9Y3G9 : USER001  
658 - 664 LKLRLVN  
>K1239\_HUMAN|Q9ULI1 : USER001  
16 - 22 SALRRAA  
213 - 219 AAVKLLH  
1276 - 1282 SIVKLVK  
>K1267\_HUMAN|Q7Z3B3 : USER001  
16 - 22 HHIRFKL  
615 - 621 KKVHRNS  
>K1305\_HUMAN|Q9P2P1 : USER001  
35 - 41 FRVKLNA  
1139 - 1145 LALKRAL  
1214 - 1220 WALKHFS  
1746 - 1752 LAFRASS  
>K1370\_HUMAN|Q32MH5 : USER001  
293 - 299 AAVKNIK  
838 - 844 LHLKSFS  
>K1383\_HUMAN|Q9P2G4 : USER001  
503 - 509 LRLRLKL  
541 - 547 SKVKLLS  
>K1407\_HUMAN|Q8NCU4 : USER001  
340 - 346 HRIKLGK  
840 - 846 KIFRAWF  
>K1409\_HUMAN|Q9P2D8 : USER001  
1249 - 1255 SKIRQQS  
1492 - 1498 KKLRSFK  
2270 - 2276 LKLKSPL  
2410 - 2416 SHIRLLS  
>K1430\_HUMAN|Q9P2B7 : USER001  
143 - 149 KKYHVKS  
145 - 151 YHVKSKS



>K1462\_HUMAN|Q9P266 : USER001  
1231 - 1237 KRLRSPS

>K1522\_HUMAN|Q9P206 : USER001  
873 - 879 AAVRLKA

>K1529\_HUMAN|Q9P1Z9 : USER001  
30 - 36 KAFHNFN  
1074 - 1080 SKFHNLS

>K1539\_HUMAN|Q7L5A3 : USER001  
485 - 491 LHLRFRS

>K1542\_HUMAN|Q9P1Y6 : USER001  
930 - 936 ARLRRPS

>K1543\_HUMAN|Q9P1Y5 : USER001  
1123 - 1129 FIIHNAL

>K1576\_HUMAN|Q9HCJ6 : USER001  
71 - 77 LKIRVKA

>K1586\_HUMAN|Q9HCI6 : USER001  
176 - 182 KHVHVSK  
449 - 455 SIYHQPN

>K1614\_HUMAN|Q5VZ46 : USER001  
85 - 91 SKVRALK

>K1632\_HUMAN|Q9HCE0 : USER001  
971 - 977 LILRLKL  
973 - 979 LRLKLHK  
1368 - 1374 KALRVPA  
1902 - 1908 YKLRLSK

>K1683\_HUMAN|Q9H0B3 : USER001  
144 - 150 HILHSSK  
230 - 236 ARVRGLA  
963 - 969 YRVRRNL

>K1704\_HUMAN|Q8IXQ4 : USER001  
282 - 288 KKLKSKA

>K1754\_HUMAN|Q8IWB1 : USER001  
334 - 340 LKIKFRS  
472 - 478 KKLHHFF

>K1755\_HUMAN|Q5JYT7 : USER001  
848 - 854 AAIHQVS

>K1787\_HUMAN|Q96JN8 : USER001  
496 - 502 AILRALS  
717 - 723 LRFHQLH  
1426 - 1432 AAVRRVL

>K1797\_HUMAN|Q5VW36 : USER001  
192 - 198 AKLRLAL  
331 - 337 LALKLLS

709 - 715 AAYRSLA  
796 - 802 SALKGGA  
1158 - 1164 SRVHVAA  
1508 - 1514 SALHGLS  
>K1843\_HUMAN|Q96JI4 : USER001  
1423 - 1429 YILHRKP  
1745 - 1751 LILKRLD  
1957 - 1963 LALKVIL  
2090 - 2096 SAYRLSL  
>K1849\_HUMAN|Q96JH8 : USER001  
15 - 21 SKLKRQS  
368 - 374 ARLRAVP  
>K1958\_HUMAN|Q8N8K9 : USER001  
479 - 485 HAIRRGL  
>K1984\_HUMAN|Q5T5S1 : USER001  
360 - 366 LKFRQKP  
>K1986\_HUMAN|O75864 : USER001  
215 - 221 LRIRSSL  
407 - 413 LALKVNH  
>K1C10\_HUMAN|P13645 : USER001  
383 - 389 LALKQSL  
>K1C13\_HUMAN|P13646 : USER001  
139 - 145 WHLKQSP  
>K2013\_HUMAN|Q8IYS2 : USER001  
571 - 577 LHLKAIL  
>K2018\_HUMAN|Q68DE3 : USER001  
1451 - 1457 SHLHSNH  
>K2022\_HUMAN|Q5QGS0 : USER001  
726 - 732 ARLKSKK  
>K2030\_HUMAN|Q6ZU65 : USER001  
1292 - 1298 AAFHHSL  
>K2032\_HUMAN|Q86XN7 : USER001  
470 - 476 SALKGFL  
617 - 623 SAFKGPS  
>K2C72\_HUMAN|Q14CN4 : USER001  
36 - 42 ARVKGSA  
>K2C75\_HUMAN|O95678 : USER001  
272 - 278 AKVKSLP  
>K6PF\_HUMAN|P08237 : USER001  
371 - 377 LKLRGRS  
>K6PP\_HUMAN|Q01813 : USER001  
351 - 357 HAVRLPL  
397 - 403 LAIKLPD

762 - 768 AKYKASY  
>K895L\_HUMAN|Q68EN5 : USER001  
445 - 451 ARYRQQL  
>KAD2\_HUMAN|P54819 : USER001  
183 - 189 LKIRLQA  
>KAD4\_HUMAN|P27144 : USER001  
169 - 175 ARLRQYK  
>KAIN\_HUMAN|P29622 : USER001  
58 - 64 FAFRFYY  
383 - 389 FAIKFFS  
>KAISO\_HUMAN|Q86T24 : USER001  
89 - 95 KIVRVRS  
567 - 573 SHIKSVH  
>KALM\_HUMAN|P23352 : USER001  
279 - 285 KHFRSSK  
326 - 332 HHYKVFW  
524 - 530 SALKGKS  
663 - 669 SHLKHRH  
>KALRN\_HUMAN|O60229 : USER001  
196 - 202 SAVHLLS  
502 - 508 KAVHQVL  
2834 - 2840 FHIHLL  
>KANK4\_HUMAN|Q5T7N3 : USER001  
587 - 593 SAIKQPA  
838 - 844 SIVKLLL  
>KAZRN\_HUMAN|Q674X7 : USER001  
571 - 577 KKFHQVS  
665 - 671 HILRRHL  
>KBL\_HUMAN|O75600 : USER001  
174 - 180 YRYRHL D  
194 - 200 HRLRLVA  
>KBTB3\_HUMAN|Q8NAB2 : USER001  
97 - 103 KAVKAFL  
>KBTB6\_HUMAN|Q86V97 : USER001  
175 - 181 AILKFAD  
>KBTB7\_HUMAN|Q8WVZ9 : USER001  
175 - 181 AILKFAD  
186 - 192 HKLRSQA  
>KBTB8\_HUMAN|Q8NFY9 : USER001  
34 - 40 SILKQLK  
>KBTBA\_HUMAN|O60662 : USER001  
137 - 143 AILRLGL  
250 - 256 KIKVVLK

>KC1G3\_HUMAN|Q9Y6M4 : USER001  
378 - 384 HHLRAHL

>KCC1A\_HUMAN|Q14012 : USER001  
71 - 77 HKIKHPN

>KCC2A\_HUMAN|Q9UQM7 : USER001  
145 - 151 SKLKGAA  
150 - 156 AAVKLAD

>KCC2B\_HUMAN|Q9UNX7 : USER001  
151 - 157 AAVKLAD

>KCC2D\_HUMAN|Q13557 : USER001  
151 - 157 AAVKLAD

>KCC2G\_HUMAN|Q13555 : USER001  
151 - 157 AAVKLAD

>KCC4\_HUMAN|Q16566 : USER001  
72 - 78 YALKVLK

>KCD11\_HUMAN|Q693B1 : USER001  
31 - 37 KAFRHIL

>KCD12\_HUMAN|Q96CX2 : USER001  
228 - 234 AKFRRVA

>KCD13\_HUMAN|Q8WZ19 : USER001  
204 - 210 LRFHGRL  
303 - 309 HRVRRIH

>KCD16\_HUMAN|Q68DU8 : USER001  
184 - 190 AKFRRVP

>KCD17\_HUMAN|Q8N5Z5 : USER001  
274 - 280 LAVRASP

>KCD19\_HUMAN|Q17RG1 : USER001  
110 - 116 HHLRVRP

>KCIP2\_HUMAN|Q9HD10 : USER001  
33 - 39 KALKQRF

>KCMB4\_HUMAN|Q86W47 : USER001  
2 - 8 AKLRVAY

>KCNA1\_HUMAN|Q09470 : USER001  
466 - 472 AHYRQVN

>KCNA4\_HUMAN|P22459 : USER001  
95 - 101 AHYRQSS

>KCNB1\_HUMAN|Q14721 : USER001  
135 - 141 ARYHQKK  
667 - 673 LKLRALK

>KCNB2\_HUMAN|Q92953 : USER001  
139 - 145 ARYHQKK

>KCND1\_HUMAN|Q9NSA2 : USER001  
433 - 439 ARIRLAK

>KCND2\_HUMAN|Q9NZV8 : USER001  
431 - 437 ARIRAAK

>KCND3\_HUMAN|Q9UK17 : USER001  
428 - 434 ARIRVAK

>KCNF1\_HUMAN|Q9H3M0 : USER001  
315 - 321 YALKRSF  
466 - 472 SRLKLSH

>KCNH2\_HUMAN|Q12809 : USER001  
163 - 169 FRLKLPA

>KCNH4\_HUMAN|Q9UQ05 : USER001  
674 - 680 AAFRAGL

>KCNH6\_HUMAN|Q9H252 : USER001  
582 - 588 LHLHRAL

>KCNH7\_HUMAN|Q9NS40 : USER001  
744 - 750 KAFRGAS  
1154 - 1160 LHLRQRK

>KCNK1\_HUMAN|O00180 : USER001  
180 - 186 AIVHAVL

>KCNKC\_HUMAN|Q9HB15 : USER001  
339 - 345 SRLRRRL

>KCNKH\_HUMAN|Q96T54 : USER001  
258 - 264 LIIKLIL

>KCNN1\_HUMAN|Q92952 : USER001  
389 - 395 KRVKNAA

>KCNN2\_HUMAN|Q9H2S1 : USER001  
417 - 423 KRVKNAA

>KCNN3\_HUMAN|Q9UGI6 : USER001  
571 - 577 KRIKNAA

>KCNQ2\_HUMAN|O43526 : USER001  
18 - 24 KKLKVGf  
496 - 502 FRIKGAA  
688 - 694 KIVRSSS

>KCNQ4\_HUMAN|P56696 : USER001  
147 - 153 YIVRVWS

>KCNS1\_HUMAN|Q96KK3 : USER001  
472 - 478 AAVRNSN

>KCNS3\_HUMAN|Q9BQ31 : USER001  
237 - 243 LAVRLAA

>KCNT1\_HUMAN|Q5JUK3 : USER001  
94 - 100 LRIRLFN  
111 - 117 YIVRVLL  
479 - 485 FHVKFAD  
564 - 570 AAFHAHK

>KCNT2\_HUMAN|Q6UVM3 : USER001

60 - 66 LRIRLFN

77 - 83 YIIRVLL

426 - 432 FHIKFAD

561 - 567 SAFKNQD

>KCRB\_HUMAN|P12277 : USER001

10 - 16 LKLRFP

313 - 319 KRLRLQK

>KCRU\_HUMAN|P12532 : USER001

147 - 153 SKIRSGY

>KCTD8\_HUMAN|Q6ZWB6 : USER001

227 - 233 AKFRRVA

>KDEL1\_HUMAN|Q6UW63 : USER001

373 - 379 AAYRLPY

>KELL\_HUMAN|P23276 : USER001

699 - 705 LRVHGPL

>KGP1A\_HUMAN|Q13976 : USER001

247 - 253 YIIRQGA

>KGP1B\_HUMAN|P14619 : USER001

262 - 268 YIIRQGA

>KHDR3\_HUMAN|O75525 : USER001

22 - 28 HALRLVN

>KI18A\_HUMAN|Q8NI77 : USER001

539 - 545 HHLHLQN

>KI21A\_HUMAN|Q7Z4S6 : USER001

268 - 274 AKFHFVD

>KI21B\_HUMAN|O75037 : USER001

267 - 273 AKFHFVD

434 - 440 LRLRVKA

820 - 826 SALRRLA

868 - 874 SIVRQWN

1342 - 1348 AALKGHP

1627 - 1633 LAIKGRA

>KI26A\_HUMAN|Q9ULI4 : USER001

628 - 634 SRLHLID

723 - 729 HRLRRKK

>KI26B\_HUMAN|Q2KJY2 : USER001

705 - 711 SRLHLID

1693 - 1699 SRLHAGK

>KI67\_HUMAN|P46013 : USER001

58 - 64 AILHNFS

2883 - 2889 KAFKQPA

>KIF12\_HUMAN|Q96FN5 : USER001

91 - 97 LALRGFS

>KIF14\_HUMAN|Q15058 : USER001

34 - 40 SRLKLHL

36 - 42 LKLHLKS

>KIF17\_HUMAN|Q9P2E2 : USER001

358 - 364 KKLKAIL

>KIF19\_HUMAN|Q2TAC6 : USER001

232 - 238 SRVKNIL

945 - 951 AKVKLPP

>KIF1A\_HUMAN|Q63Z40 : USER001

576 - 582 SILRSGN

>KIF24\_HUMAN|Q5T7B8 : USER001

586 - 592 KKVKLGf

>KIF27\_HUMAN|Q86VH2 : USER001

238 - 244 SKFHFVD

>KIF2B\_HUMAN|Q8N4N8 : USER001

657 - 663 KKLKLLL

>KIF3B\_HUMAN|O15066 : USER001

363 - 369 ARLKAQL

>KIF3C\_HUMAN|O14782 : USER001

388 - 394 ARLKAQL

>KIF4A\_HUMAN|O95239 : USER001

234 - 240 SKLHLVD

741 - 747 ARVKNWL

>KIF4B\_HUMAN|Q2VIQ3 : USER001

234 - 240 SKLHLVD

741 - 747 ARVRNWL

>KIF5A\_HUMAN|Q12840 : USER001

129 - 135 FHIKVSy

>KIF5C\_HUMAN|O60282 : USER001

129 - 135 FHIKVSy

>KIF6\_HUMAN|Q6ZMV9 : USER001

244 - 250 AKLHLVD

674 - 680 AKVKLQK

>KIF7\_HUMAN|Q2M1P5 : USER001

246 - 252 SKFHFVD

>KIF9\_HUMAN|Q9HAQ2 : USER001

659 - 665 LILKLKD

>KIFA3\_HUMAN|Q92845 : USER001

54 - 60 KIIRLKS

>KIFC1\_HUMAN|Q9BW19 : USER001

33 - 39 SRLKRRP

>KIFC2\_HUMAN|Q96AC6 : USER001

547 - 553 LAVRQGP  
>KIFC3\_HUMAN|Q9BVG8 : USER001  
477 - 483 SIIHLLH  
>KIME\_HUMAN|Q03426 : USER001  
214 - 220 LRYHQGK  
>KINH\_HUMAN|P33176 : USER001  
128 - 134 FHIKVSY  
>KIRR2\_HUMAN|Q6UWL6 : USER001  
604 - 610 YKVRGVS  
>KIRR3\_HUMAN|Q8IZU9 : USER001  
132 - 138 AAIRSRP  
>KISSR\_HUMAN|Q969F8 : USER001  
178 - 184 LALHRLS  
328 - 334 SHFRQAF  
>KIT\_HUMAN|P10721 : USER001  
46 - 52 LIVRVGD  
200 - 206 FILKVRP  
506 - 512 FAFKGNN  
>KKCC2\_HUMAN|Q8WY06 : USER001  
400 - 406 SKIKSQA  
>KLD7B\_HUMAN|Q96G42 : USER001  
113 - 119 AALRRRL  
221 - 227 AHLHVFN  
>KLDC3\_HUMAN|Q9BQ90 : USER001  
64 - 70 SAIRGQA  
>KLF11\_HUMAN|O14901 : USER001  
409 - 415 SHLKAHL  
>KLF12\_HUMAN|Q9Y4X4 : USER001  
181 - 187 SHVHRIP  
>KLF13\_HUMAN|Q9Y2Y9 : USER001  
182 - 188 SHLKAHL  
>KLF15\_HUMAN|Q9UIH9 : USER001  
336 - 342 SHLKAHL  
>KLF16\_HUMAN|Q9BXX1 : USER001  
142 - 148 SHLKSHL  
>KLF1\_HUMAN|Q13351 : USER001  
294 - 300 SHLKAHL  
>KLF2\_HUMAN|Q9Y5W3 : USER001  
287 - 293 SHLKAHL  
>KLF4\_HUMAN|O43474 : USER001  
402 - 408 SHLKAHL  
>KLF5\_HUMAN|Q13887 : USER001  
336 - 342 LAIHNP



388 - 394 SHLKAHL

>KLF9\_HUMAN|Q13886 : USER001

158 - 164 SHLKAHY

>KLH10\_HUMAN|Q6JEL2 : USER001

561 - 567 SIYRSAL

>KLH11\_HUMAN|Q9NVR0 : USER001

198 - 204 KKLHLSN

220 - 226 LALKAAD

>KLH12\_HUMAN|Q53G59 : USER001

256 - 262 KKFHLRP

>KLH13\_HUMAN|Q9P2N7 : USER001

386 - 392 SALKGYL

>KLH14\_HUMAN|Q9P2G3 : USER001

262 - 268 KRLRFAL

315 - 321 SRIRSNK

>KLH15\_HUMAN|Q96M94 : USER001

273 - 279 SRIRSAK

>KLH17\_HUMAN|Q6TDP4 : USER001

315 - 321 LKFHLLP

432 - 438 AALHGLL

>KLH29\_HUMAN|Q96CT2 : USER001

498 - 504 KAVHSAA

>KLH30\_HUMAN|Q0D2K2 : USER001

111 - 117 ARLHFPS

>KLH31\_HUMAN|Q9H511 : USER001

561 - 567 SALHGRA

>KLHL1\_HUMAN|Q9NR64 : USER001

13 - 19 HILRLRW

>KLHL4\_HUMAN|Q9C0H6 : USER001

96 - 102 LIVHFQA

>KLHL7\_HUMAN|Q8IXQ5 : USER001

231 - 237 AKVRFPL

559 - 565 SKVRAFP

>KLHL8\_HUMAN|Q9P2G9 : USER001

170 - 176 LAVRAFA

292 - 298 YHLHLSS

>KLHL9\_HUMAN|Q9P2J3 : USER001

176 - 182 FILKNFP

395 - 401 SALKGHL

>KLK5\_HUMAN|Q9Y337 : USER001

114 - 120 FRVRLGH

>KLK7\_HUMAN|P49862 : USER001

129 - 135 KKVRLPS

>KMO\_HUMAN|O15229 : USER001  
451 - 457 LRLRRPW

>KNTC1\_HUMAN|P50748 : USER001  
427 - 433 YKVKSNH  
1050 - 1056 SKLHRQA  
1554 - 1560 SILKHLK

>KPB1\_HUMAN|P46020 : USER001  
154 - 160 HIIHSLD

>KPB2\_HUMAN|P46019 : USER001  
174 - 180 AAYKVAD  
597 - 603 ARVKLGN

>KPBB\_HUMAN|Q93100 : USER001  
99 - 105 LAYRRID  
694 - 700 SKVKRQS

>KPCD1\_HUMAN|Q15139 : USER001  
265 - 271 SKVKVPH

>KPCD2\_HUMAN|Q9BZL6 : USER001  
67 - 73 AHVKQLA  
259 - 265 SKVKVPH

>KPCD3\_HUMAN|O94806 : USER001  
525 - 531 KAIRQAL

>KPCD\_HUMAN|Q05655 : USER001  
231 - 237 HRFKVHN  
375 - 381 SAIKALK

>KPCE\_HUMAN|Q02156 : USER001  
434 - 440 YAVKVLK  
715 - 721 AIVKQIN

>KPCG\_HUMAN|P05129 : USER001  
101 - 107 HKFRLHS  
103 - 109 FRLHSYS

>KPCI\_HUMAN|P41743 : USER001  
114 - 120 SIYRRGA

>KPCL\_HUMAN|P24723 : USER001  
380 - 386 YAVKVLK  
606 - 612 AILRHPF

>KPCT\_HUMAN|Q04759 : USER001  
152 - 158 AKVHHVK  
232 - 238 HRFKVYN  
406 - 412 FAIKALK

>KPCZ\_HUMAN|Q05513 : USER001  
91 - 97 LIIHVFP  
113 - 119 SIYRRGA

>KPSH1\_HUMAN|P11801 : USER001

84 - 90 AKYRAKF  
>KPSH2\_HUMAN|Q96QS6 : USER001  
49 - 55 ARFRAKF  
273 - 279 KILKGKY  
>KPYM\_HUMAN|P14618 : USER001  
388 - 394 AIYHLQL  
>KPYR\_HUMAN|P30613 : USER001  
295 - 301 AAVRAAL  
>KRBA1\_HUMAN|A5PL33 : USER001  
617 - 623 SALRGIL  
>KREM1\_HUMAN|Q96MU8 : USER001  
252 - 258 SHIHFSF  
282 - 288 ARFHGRS  
458 - 464 KKLKGQS  
>KRT37\_HUMAN|O76014 : USER001  
247 - 253 KILRSQL  
>KRT38\_HUMAN|O76015 : USER001  
247 - 253 KILRSQL  
>KRT82\_HUMAN|Q9NSB4 : USER001  
174 - 180 SALRRQL  
>KS6A1\_HUMAN|Q15418 : USER001  
48 - 54 HHVKAGS  
273 - 279 LILKAKL  
444 - 450 YAVKVID  
500 - 506 KILRQKF  
>KS6A2\_HUMAN|Q15349 : USER001  
8 - 14 FAVRRFF  
120 - 126 FIVKLHY  
270 - 276 LILKAKL  
>KS6A3\_HUMAN|P51812 : USER001  
129 - 135 FIVKLHY  
504 - 510 KILRQKF  
>KS6A4\_HUMAN|O75676 : USER001  
109 - 115 AKLHLIL  
>KS6A6\_HUMAN|Q9UK32 : USER001  
134 - 140 FIVKLHY  
>KS6B2\_HUMAN|Q9UBS0 : USER001  
105 - 111 KIVRNAK  
280 - 286 KIIRGKL  
>KS6C1\_HUMAN|Q96S38 : USER001  
545 - 551 KAIKSPF  
>KSR1\_HUMAN|Q8IVT5 : USER001  
4 - 10 AALRAAA

>KSR2\_HUMAN|Q6VAB6 : USER001  
459 - 465 LIIHRGD  
567 - 573 YKYKQQF

>KSYK\_HUMAN|P43405 : USER001  
291 - 297 SRIKSYS  
624 - 630 LRLRNY

>KTEL1\_HUMAN|Q8NBL1 : USER001  
278 - 284 FRFKHLF

>KTI12\_HUMAN|Q96EK9 : USER001  
56 - 62 KALRGAL  
319 - 325 SRLRRQF

>KTNB1\_HUMAN|Q9BVA0 : USER001  
141 - 147 FRYRGHS

>KU70\_HUMAN|P12956 : USER001  
257 - 263 SRLKCLK  
259 - 265 LKLKLNK

>KU86\_HUMAN|P13010 : USER001  
262 - 268 AAYKSIL

>KV104\_HUMAN|P01596 : USER001  
47 - 53 LIYKSSS

>KV206\_HUMAN|P06310 : USER001  
72 - 78 LIYKVS

>KY\_HUMAN|Q8NBH2 : USER001  
554 - 560 LKYKVNA

>L1CAM\_HUMAN|P32004 : USER001  
987 - 993 LRYRFQL

>L2GL1\_HUMAN|Q15334 : USER001  
652 - 658 SRVKSLK

>L2GL2\_HUMAN|Q6P1M3 : USER001  
102 - 108 LKVKGGA  
641 - 647 SRVKSLK  
829 - 835 AKLCLKL  
841 - 847 SRVRRVS

>L2HDH\_HUMAN|Q9H9P8 : USER001  
67 - 73 LILRHPS  
433 - 439 LHVRNAP

>L37A3\_HUMAN|O60309 : USER001  
1303 - 1309 KKYRFHK

>L3R2A\_HUMAN|Q9Y6C7 : USER001  
70 - 76 LRVKQSP

>LACE1\_HUMAN|Q8WV93 : USER001  
172 - 178 KRIHRLK  
175 - 181 HRLKQSL

>LACTB\_HUMAN|P83111 : USER001  
234 - 240 KAYKALK

>LAEVR\_HUMAN|Q6Q4G3 : USER001  
524 - 530 SALKSYL

>LAG3\_HUMAN|P18627 : USER001  
149 - 155 AAVHLRD

>LAMA1\_HUMAN|P25391 : USER001  
1995 - 2001 LILRAIP

>LAMA2\_HUMAN|P24043 : USER001  
696 - 702 AIFRLSS  
1399 - 1405 YRLRSQP  
1923 - 1929 AAFKAYS

>LAMA3\_HUMAN|Q16787 : USER001  
1253 - 1259 KRLKHHIS

>LAMA5\_HUMAN|O15230 : USER001  
887 - 893 HAVRFGF  
2203 - 2209 ARLHRLN  
2280 - 2286 AAIRAVD  
3494 - 3500 LRLHGRP

>LAMB1\_HUMAN|P07942 : USER001  
233 - 239 LRIKFVK  
1611 - 1617 KAIKQAD

>LAMB2\_HUMAN|P55268 : USER001  
689 - 695 YKLHLKL

>LAMB4\_HUMAN|A4D0S4 : USER001  
1427 - 1433 SIIRNLD  
1483 - 1489 KKVKNFL

>LAMC2\_HUMAN|Q13753 : USER001  
872 - 878 KRIKQKA

>LAMC3\_HUMAN|Q9Y6N6 : USER001  
635 - 641 LRLRVSP  
1025 - 1031 AKLKARL  
1574 - 1580 AILHSLP

>LANC2\_HUMAN|Q9NS86 : USER001  
7 - 13 KRLKLHL  
299 - 305 KKFRSGN

>LAP2\_HUMAN|Q96RT1 : USER001  
1042 - 1048 YHLHQRL

>LARG2\_HUMAN|Q8N3Y3 : USER001  
344 - 350 KKL RVKN  
346 - 352 LRVKNKH  
559 - 565 LRYRFSF  
674 - 680 SRFRSSP

>LARGE\_HUMAN|O95461 : USER001  
168 - 174 LHFHLIA  
385 - 391 KKL RVKN  
387 - 393 LRVKNKH  
600 - 606 LRYRLSF  
>LARP4\_HUMAN|Q71RC2 : USER001  
268 - 274 ARIKAIN  
>LARP5\_HUMAN|Q92615 : USER001  
306 - 312 ARIKAKA  
>LARP6\_HUMAN|Q9BRS8 : USER001  
117 - 123 KHVRRNK  
>LARP7\_HUMAN|Q4G0J3 : USER001  
29 - 35 SRVKQVL  
>LAS1L\_HUMAN|Q9Y4W2 : USER001  
292 - 298 KAIKAWN  
>LASP1\_HUMAN|Q14847 : USER001  
72 - 78 LRLKQQS  
205 - 211 KRYRAVY  
>LASS1\_HUMAN|P27544 : USER001  
233 - 239 HRLHALA  
>LASS3\_HUMAN|Q8IU89 : USER001  
50 - 56 LIIRRVF  
208 - 214 HIIHHLA  
>LATS2\_HUMAN|Q9NRM7 : USER001  
592 - 598 SRIKSYS  
>LBN\_HUMAN|Q86UK5 : USER001  
584 - 590 KRYHLSK  
665 - 671 KKLHQKL  
1273 - 1279 FIFRNPK  
>LCA5\_HUMAN|Q86VQ0 : USER001  
160 - 166 LIFRHNN  
670 - 676 HRLKHAD  
>LCK\_HUMAN|P06239 : USER001  
181 - 187 YKIRNLD  
>LCMT1\_HUMAN|Q9UIC8 : USER001  
72 - 78 ARVHGVS  
>LCN10\_HUMAN|Q6JVE6 : USER001  
114 - 120 KAFHVLS  
>LCN8\_HUMAN|Q6JVE9 : USER001  
114 - 120 AILRVSL  
>LCN9\_HUMAN|Q8WX39 : USER001  
178 - 184 KHYRSPP  
>LCORL\_HUMAN|Q8N3X6 : USER001

575 - 581 KKLRLPD  
>LCOR\_HUMAN|Q96JN0 : USER001  
290 - 296 KKLRAIL  
>LCTL\_HUMAN|Q6UWM7 : USER001  
232 - 238 HIIKAHA  
>LDB2\_HUMAN|O43679 : USER001  
102 - 108 YILKHSK  
>LDLR\_HUMAN|P01130 : USER001  
580 - 586 SKLHSIS  
813 - 819 WRLKNIN  
>LEG12\_HUMAN|Q96DT0 : USER001  
126 - 132 LALRRGS  
157 - 163 FRYRLPL  
>LEG2\_HUMAN|P05162 : USER001  
93 - 99 FKVKLPD  
>LEG7\_HUMAN|P47929 : USER001  
31 - 37 SRFHVNL  
47 - 53 AALHFNP  
108 - 114 HHFRHRL  
>LEG9L\_HUMAN|Q3B8N2 : USER001  
332 - 338 HRLRNLP  
>LEG9\_HUMAN|O00182 : USER001  
331 - 337 HRLRNLP  
>LENG1\_HUMAN|Q96BZ8 : USER001  
9 - 15 WHVRNKD  
>LENG9\_HUMAN|Q96B70 : USER001  
128 - 134 FRFHGRL  
>LEO1\_HUMAN|Q8WVC0 : USER001  
588 - 594 AAIKNRY  
>LEPR\_HUMAN|P48357 : USER001  
157 - 163 YKVHLLY  
464 - 470 LRYHRSS  
>LFNG\_HUMAN|Q8NES3 : USER001  
357 - 363 SRFRSIH  
>LFTY2\_HUMAN|O00292 : USER001  
55 - 61 AHVRAQY  
>LG3BP\_HUMAN|Q08380 : USER001  
392 - 398 ARYKGLN  
>LGI1\_HUMAN|O95970 : USER001  
433 - 439 YAVKHFS  
>LGMN\_HUMAN|Q99538 : USER001  
400 - 406 YALRHLY  
>LGR4\_HUMAN|Q9BXB1 : USER001

206 - 212 LHLHNNK  
290 - 296 SAFHNLS  
>LGR6\_HUMAN|Q9HBX8 : USER001  
448 - 454 LKLKGNL  
>LHPL4\_HUMAN|Q7Z7J7 : USER001  
90 - 96 SAFKAAA  
>LHPP\_HUMAN|Q9H008 : USER001  
46 - 52 SRLKVERF  
>LHR2A\_HUMAN|O00534 : USER001  
684 - 690 LIYHQNA  
>LHX2\_HUMAN|P50458 : USER001  
319 - 325 AKFRRNL  
>LHX3\_HUMAN|Q9UBR4 : USER001  
42 - 48 FILKALD  
>LHX4\_HUMAN|Q969G2 : USER001  
18 - 24 FILKVLD  
>LHX9\_HUMAN|Q9NQ69 : USER001  
311 - 317 AKFRRNL  
>LIF\_HUMAN|P15018 : USER001  
157 - 163 SKYHVGH  
>LIGA\_HUMAN|Q9NZ21 : USER001  
4 - 10 KAFRVKS  
>LIMA1\_HUMAN|Q9P0H8 : USER001  
128 - 134 SRLRSPP  
210 - 216 KILRAQS  
576 - 582 KKLRRSS  
>LIMC1\_HUMAN|Q8N3S9 : USER001  
596 - 602 ARVHGSP  
>LIN37\_HUMAN|Q96GY3 : USER001  
215 - 221 KRIRQRW  
>LIN9\_HUMAN|Q5TKA1 : USER001  
107 - 113 FRLRNLL  
228 - 234 ARLRGVH  
>LINS1\_HUMAN|Q8NG48 : USER001  
262 - 268 SRIHLKL  
>LIPA1\_HUMAN|Q13136 : USER001  
162 - 168 KALKSLF  
930 - 936 HRLKLRL  
>LIPA2\_HUMAN|O75334 : USER001  
175 - 181 KALKSLF  
950 - 956 HRLKLRL  
>LIPA3\_HUMAN|O75145 : USER001  
154 - 160 KALKSLF



890 - 896 HRLKLRL  
>LIPA4\_HUMAN|O75335 : USER001  
397 - 403 HRLKLRL  
>LIPB1\_HUMAN|Q86W92 : USER001  
530 - 536 FKIKNK  
>LIPB2\_HUMAN|Q8ND30 : USER001  
614 - 620 LAVKAIN  
>LIPC\_HUMAN|P11150 : USER001  
105 - 111 AALKSQP  
>LIPI\_HUMAN|Q6XZB0 : USER001  
170 - 176 KIFHGQL  
>LIPK\_HUMAN|Q5VXJ0 : USER001  
126 - 132 KHLKLSP  
>LIPN\_HUMAN|Q5VXI9 : USER001  
221 - 227 SIIKAVF  
293 - 299 LHIKQLY  
>LIPR1\_HUMAN|P54315 : USER001  
388 - 394 SIFRGIL  
>LIPR2\_HUMAN|P54317 : USER001  
91 - 97 FIIHGFL  
>LIPT\_HUMAN|Q9Y234 : USER001  
132 - 138 LIVRALN  
236 - 242 AAYHQID  
>LIRA1\_HUMAN|O75019 : USER001  
367 - 373 LRLRSIH  
>LIRB2\_HUMAN|Q8N423 : USER001  
366 - 372 LRLRSIH  
>LIRB5\_HUMAN|O75023 : USER001  
397 - 403 SAIRSYP  
>LKAP\_HUMAN|Q9Y4F3 : USER001  
206 - 212 HKLHQFP  
550 - 556 AILRFIN  
605 - 611 KKLKNPK  
>LMA2L\_HUMAN|Q9H0V9 : USER001  
202 - 208 AIVRNLH  
>LMBD2\_HUMAN|Q68DH5 : USER001  
453 - 459 FRIRVFN  
>LMBL2\_HUMAN|Q969R5 : USER001  
416 - 422 KKVRAVY  
>LMBL3\_HUMAN|Q96JM7 : USER001  
292 - 298 YRIKLHF  
503 - 509 HRVKVHF  
>LMBR1\_HUMAN|Q8WVP7 : USER001

465 - 471 HKLHLPN  
>LMBTL\_HUMAN|Q9Y468 : USER001  
266 - 272 YRLRLHF  
439 - 445 WAFKVRP  
>LMCD1\_HUMAN|Q9NZU5 : USER001  
83 - 89 ARVKGGD  
>LMO7\_HUMAN|Q8WWI1 : USER001  
679 - 685 SRLRHKK  
>LMOD1\_HUMAN|P29536 : USER001  
125 - 131 KIIRGID  
378 - 384 AIFRALL  
552 - 558 AAIRSSN  
>LMTK1\_HUMAN|Q6ZMQ8 : USER001  
242 - 248 LHLHRNN  
836 - 842 SAIKLAS  
>LMTK2\_HUMAN|Q8IWU2 : USER001  
257 - 263 HKLHFLH  
1166 - 1172 SALHNSS  
>LMTK3\_HUMAN|Q96Q04 : USER001  
255 - 261 AHLHSHN  
>LNX2\_HUMAN|Q8N448 : USER001  
89 - 95 KRLHFKL  
>LONF1\_HUMAN|Q17RB8 : USER001  
288 - 294 KRFRVLK  
>LONF2\_HUMAN|Q1L5Z9 : USER001  
615 - 621 SRFRVLS  
727 - 733 LAIRRIL  
>LONP2\_HUMAN|Q86WA8 : USER001  
169 - 175 AKLRLL  
357 - 363 LAVRQLK  
>LOXH1\_HUMAN|Q8IVV2 : USER001  
209 - 215 YKIRVWH  
598 - 604 YKLRLGH  
962 - 968 WKVRLGN  
1247 - 1253 YKIKLRH  
1641 - 1647 LALKQSA  
>LOXL1\_HUMAN|Q08397 : USER001  
533 - 539 LKVHVNP  
>LOXL4\_HUMAN|Q96JB6 : USER001  
470 - 476 FAIHAYK  
>LPIN1\_HUMAN|Q14693 : USER001  
48 - 54 FHVRFGK  
638 - 644 LKLKNGP

>LPIN2\_HUMAN|Q92539 : USER001  
48 - 54 FHVRFGK  
647 - 653 AKLKLHD

>LPIN3\_HUMAN|Q9BQK8 : USER001  
48 - 54 FHVRFGK

>LPLC4\_HUMAN|P59827 : USER001  
27 - 33 FHVRGPP

>LRC14\_HUMAN|Q15048 : USER001  
112 - 118 HALRVLD

>LRC17\_HUMAN|Q8N6Y2 : USER001  
105 - 111 KKLKSLD  
201 - 207 KKLRQIK

>LRC24\_HUMAN|Q50LG9 : USER001  
39 - 45 LRLRVVP  
74 - 80 AALRRLY

>LRC26\_HUMAN|Q2I0M4 : USER001  
71 - 77 LRLRALL  
196 - 202 LHLRGNP

>LRC27\_HUMAN|Q9C0I9 : USER001  
481 - 487 LKLKLGL

>LRC31\_HUMAN|Q6UY01 : USER001  
145 - 151 KILRLGS  
360 - 366 SRLRFLP

>LRC33\_HUMAN|Q86YC3 : USER001  
126 - 132 AALHALP

>LRC39\_HUMAN|Q96DD0 : USER001  
280 - 286 LKLKVSL

>LRC3B\_HUMAN|Q96PB8 : USER001  
106 - 112 HAFKGVA

>LRC40\_HUMAN|Q9H9A6 : USER001  
2 - 8 SRLKRIA  
220 - 226 KRLKHLA  
334 - 340 LHLKFLA

>LRC41\_HUMAN|Q15345 : USER001  
198 - 204 LKFRHLL  
389 - 395 KRFKRAA  
542 - 548 AIVRALP  
644 - 650 LALKRLS

>LRC43\_HUMAN|Q8N309 : USER001  
111 - 117 LAIRNPL

>LRC45\_HUMAN|Q96CN5 : USER001  
470 - 476 SRVKAAA

>LRC49\_HUMAN|Q8IUZ0 : USER001

460 - 466 LKIKFPN  
>LRC4B\_HUMAN|Q9NT99 : USER001  
668 - 674 AAFKAHY  
>LRC50\_HUMAN|Q8NEP3 : USER001  
114 - 120 LHFKGFD  
>LRC53\_HUMAN|A6NM62 : USER001  
316 - 322 WKLHQGK  
>LRC8A\_HUMAN|Q8IWT6 : USER001  
549 - 555 LRLKSNL  
>LRC8B\_HUMAN|Q6P9F7 : USER001  
368 - 374 FILHLAD  
490 - 496 KILRLKF  
507 - 513 FHLKNLK  
>LRC8D\_HUMAN|Q7L1W4 : USER001  
591 - 597 KILHVKS  
593 - 599 LHVKSNL  
>LRC8E\_HUMAN|Q6NSJ5 : USER001  
391 - 397 SRLKQLN  
>LRCH1\_HUMAN|Q9Y2L9 : USER001  
696 - 702 SALRSRD  
>LRCH2\_HUMAN|Q5VUJ6 : USER001  
658 - 664 SRLKVIL  
>LRCH3\_HUMAN|Q96II8 : USER001  
668 - 674 YRLKVSL  
>LRCH4\_HUMAN|O75427 : USER001  
596 - 602 SALKARK  
>LRFN5\_HUMAN|Q96NI6 : USER001  
373 - 379 HIIKLPH  
>LRIG2\_HUMAN|O94898 : USER001  
210 - 216 KIFKLPH  
563 - 569 SILHLFN  
>LRIG3\_HUMAN|Q6UXM1 : USER001  
509 - 515 SAIKGSN  
1043 - 1049 KALRRPH  
>LRIQ3\_HUMAN|A6PVS8 : USER001  
550 - 556 LIVKQKL  
>LRP11\_HUMAN|Q86VZ4 : USER001  
175 - 181 FALHSGY  
>LRP12\_HUMAN|Q9Y561 : USER001  
580 - 586 LAVRSQL  
>LRP1B\_HUMAN|Q9NZR2 : USER001  
1687 - 1693 SIIHGID  
2274 - 2280 LAYHRAW

2427 - 2433 AILRSNK  
4165 - 4171 HRYKQLD  
4529 - 4535 SAFKLPH

>LRP1\_HUMAN|Q07954 : USER001

1320 - 1326 KIYRGKL  
2288 - 2294 LAYHRGW  
3282 - 3288 HALRQPD

>LRP2\_HUMAN|P98164 : USER001

803 - 809 SHYKXIS  
935 - 941 AIIRVRK  
956 - 962 YILHLKS  
958 - 964 LHLKSYD  
1640 - 1646 LIIRHPY  
2071 - 2077 SAIRGFS

>LRP5L\_HUMAN|A4QPB2 : USER001

13 - 19 WAIRRAY

>LRP5\_HUMAN|O75197 : USER001

653 - 659 AAIHRIS

>LRP8\_HUMAN|Q14114 : USER001

603 - 609 SKLHQLS

>LRRC1\_HUMAN|Q9BTT6 : USER001

380 - 386 LKLKALW

>LRRC3\_HUMAN|Q9BY71 : USER001

138 - 144 AKIRLSH

>LRRC4\_HUMAN|Q9HBW1 : USER001

295 - 301 LHLHHNP

>LRRF2\_HUMAN|Q9Y608 : USER001

633 - 639 YKFKLSK

>LRRK1\_HUMAN|Q38SD2 : USER001

57 - 63 AAYRRGD  
223 - 229 AAIKSGN  
284 - 290 SHLRLPW  
1298 - 1304 KKFKNFA

>LRRK2\_HUMAN|Q5S007 : USER001

19 - 25 LIVRLNN  
182 - 188 KALHVLF  
569 - 575 SIVHFPD  
654 - 660 AILKLSA  
1571 - 1577 HAVHFLN

>LRRN1\_HUMAN|Q6UXK5 : USER001

170 - 176 LRLHLNS  
331 - 337 LAFRSVP  
654 - 660 KRFKRKN

>LRRN2\_HUMAN|O75325 : USER001  
168 - 174 LRLHLNS

>LRRN3\_HUMAN|Q9H3W5 : USER001  
6 - 12 LRIHVLL  
167 - 173 LRLHLNS

>LRRT2\_HUMAN|O43300 : USER001  
162 - 168 LHLRSNS

>LRRT3\_HUMAN|Q86VH5 : USER001  
162 - 168 LHLRSNS

>LRRT4\_HUMAN|Q86VH4 : USER001  
162 - 168 LHLRSNS

>LRTM1\_HUMAN|Q9HBL6 : USER001  
68 - 74 FAFRSVP

>LRTM2\_HUMAN|Q8N967 : USER001  
164 - 170 LALRSLS

>LRWD1\_HUMAN|Q9UFC0 : USER001  
230 - 236 AALKRPD  
377 - 383 LHVRAGF

>LSD1\_HUMAN|O60341 : USER001  
250 - 256 HRVHSYL  
729 - 735 AILKGIF

>LSHR\_HUMAN|P22888 : USER001  
592 - 598 AAFKVPL

>LSP1\_HUMAN|P33241 : USER001  
316 - 322 KRYKFVA

>LTB1L\_HUMAN|Q14766 : USER001  
704 - 710 SAIHLHP

>LTB1S\_HUMAN|P22064 : USER001  
503 - 509 SAIHLHP

>LTBP3\_HUMAN|Q9NS15 : USER001  
647 - 653 YRLHVGA

>LTC4S\_HUMAN|Q16873 : USER001  
133 - 139 AALRAAL

>LTK\_HUMAN|P29376 : USER001  
566 - 572 SKFRHQN

>LTMD1\_HUMAN|Q9BY59 : USER001  
43 - 49 SKLHLSP  
252 - 258 LHVKALS

>LUM\_HUMAN|P51884 : USER001  
56 - 62 LKLKSVP  
113 - 119 SKLKQLK  
178 - 184 AAFKGLK

>LUZP1\_HUMAN|Q86V48 : USER001

16 - 22 LRFKLQS  
>LV105\_HUMAN|P01703 : USER001  
49 - 55 LIFHNNA  
>LX12B\_HUMAN|O75342 : USER001  
221 - 227 FKVRGLL  
>LXN\_HUMAN|Q9BS40 : USER001  
50 - 56 HKYHLKF  
>LY10L\_HUMAN|Q9H930 : USER001  
55 - 61 KHFKRHK  
139 - 145 HIYKSFK  
258 - 264 SKIRGRK  
281 - 287 KRVRSRA  
>LY10\_HUMAN|Q13342 : USER001  
545 - 551 SKIRGRK  
568 - 574 KRVRSRA  
>LY75\_HUMAN|O60449 : USER001  
76 - 82 FHLHSQK  
119 - 125 ARYRLAL  
753 - 759 AAVKVFH  
>LYAM1\_HUMAN|P14151 : USER001  
148 - 154 HKLKAAL  
>LYAM3\_HUMAN|P16109 : USER001  
358 - 364 YRVRGLD  
797 - 803 KRFRQKD  
>LYAR\_HUMAN|Q9NX58 : USER001  
317 - 323 AILKQAP  
>LYCAT\_HUMAN|Q6UWP7 : USER001  
283 - 289 FHVHRYP  
>LYL1\_HUMAN|P12980 : USER001  
114 - 120 SRLKRRP  
>LYN\_HUMAN|P07948 : USER001  
183 - 189 YKIRSLD  
>LYPD4\_HUMAN|Q6UWN0 : USER001  
35 - 41 SRFRAVA  
>LYRM5\_HUMAN|Q6IPR1 : USER001  
32 - 38 KRLKNIF  
>LYSM2\_HUMAN|Q8IV50 : USER001  
73 - 79 HRVRAGD  
>LYSM3\_HUMAN|Q7Z3D4 : USER001  
102 - 108 FALRSIK  
>LYSM4\_HUMAN|Q5XG99 : USER001  
111 - 117 YALKSVK  
>LYST\_HUMAN|Q99698 : USER001

392 - 398 SKYRHRA  
597 - 603 HAFKLPA  
1833 - 1839 LALRVIL  
3184 - 3190 LIYRNLS  
>LZIC\_HUMAN|Q8WZA0 : USER001  
10 - 16 SKLKQNL  
>LZTS1\_HUMAN|Q9Y250 : USER001  
136 - 142 AILHSSP  
>LZTS2\_HUMAN|Q9BRK4 : USER001  
118 - 124 AHLRGPP  
>M10L1\_HUMAN|Q9BXT6 : USER001  
178 - 184 LRYKRVD  
751 - 757 LAVKRIL  
>M1IP1\_HUMAN|Q9NPA3 : USER001  
149 - 155 YHLRGLH  
>M2GD\_HUMAN|Q9UI17 : USER001  
64 - 70 LAYHLAK  
>M2OM\_HUMAN|Q02978 : USER001  
305 - 311 KAYKRLF  
>M3K11\_HUMAN|Q16584 : USER001  
481 - 487 SKLRARD  
>M3K13\_HUMAN|Q43283 : USER001  
582 - 588 SRYRSKP  
604 - 610 AILKNQP  
677 - 683 AALRSPL  
>M3K14\_HUMAN|Q99558 : USER001  
879 - 885 HRVKVGD  
>M3K15\_HUMAN|Q6ZN16 : USER001  
1101 - 1107 KILRNHL  
1283 - 1289 LRLRGGL  
>M3K1\_HUMAN|Q13233 : USER001  
398 - 404 SRIKAPS  
>M3K4\_HUMAN|Q9Y6R4 : USER001  
144 - 150 KKIRAAL  
542 - 548 LILRLHK  
1142 - 1148 LAIHRNS  
>M3K5\_HUMAN|Q99683 : USER001  
349 - 355 HHVKFHY  
730 - 736 KHLKHKH  
1282 - 1288 KHLKLKS  
1284 - 1290 LKLKSQP  
>M3K9\_HUMAN|P80192 : USER001  
508 - 514 SRLKDKD



>M3KL4\_HUMAN|Q5TCX8 : USER001  
503 - 509 SRLKDKD

>M4A10\_HUMAN|Q96PG2 : USER001  
80 - 86 SIVKNLH  
213 - 219 LHLKGLP

>M4A14\_HUMAN|Q96JA4 : USER001  
342 - 348 SHVKQSS

>M4K3\_HUMAN|Q8IVH8 : USER001  
42 - 48 AAIKVIK

>M4K4\_HUMAN|O95819 : USER001  
704 - 710 FRVRSSS

>MA1C1\_HUMAN|Q9NR34 : USER001  
47 - 53 SRLKRLF

>MA2A1\_HUMAN|Q16706 : USER001  
534 - 540 FALRQAH  
847 - 853 HRVRLYH

>MA2B1\_HUMAN|O00754 : USER001  
481 - 487 ARLRGFK

>MA2B2\_HUMAN|Q9Y2E5 : USER001  
678 - 684 YAIRSRL

>MAAI\_HUMAN|O43708 : USER001  
24 - 30 LALKGID

>MACD1\_HUMAN|Q9BQ69 : USER001  
257 - 263 HRLRSVA

>MACF1\_HUMAN|Q9UPN3 : USER001  
4834 - 4840 LRFRGAL

>MACF4\_HUMAN|Q96PK2 : USER001  
1451 - 1457 SHIKSQP  
5336 - 5342 LRFRGAL

>MACOI\_HUMAN|Q8N5G2 : USER001  
9 - 15 SKLRRPL  
136 - 142 AAIRFKD

>MAD1\_HUMAN|Q05195 : USER001  
114 - 120 KAVHQID  
207 - 213 KRIKLQD

>MAD4\_HUMAN|Q14582 : USER001  
67 - 73 AKLRLYL

>MADD\_HUMAN|Q8WYG5 : USER001  
426 - 432 KHLKQAL  
964 - 970 KKVRRLL

>MAFK\_HUMAN|O60675 : USER001  
9 - 15 KALKVKK

>MAGA1\_HUMAN|P43355 : USER001

288 - 294 ARVRFFF

>MAGB5\_HUMAN|Q9BZ81 : USER001

111 - 117 SKLKLPN

>MAGBA\_HUMAN|Q96LZ2 : USER001

336 - 342 SKVKSSK

>MAGBG\_HUMAN|A2A368 : USER001

327 - 333 AKVHGSY

>MAGC3\_HUMAN|Q8TD91 : USER001

52 - 58 SAFHLGH

>MAGD1\_HUMAN|Q9Y5V3 : USER001

76 - 82 SAFKVQN

110 - 116 AAFKSQN

736 - 742 ARYHQNA

>MAGF1\_HUMAN|Q9HAY2 : USER001

202 - 208 SKYHFLF

>MAGG1\_HUMAN|Q96MG7 : USER001

268 - 274 AKVHNQD

>MAGI2\_HUMAN|Q86UL8 : USER001

967 - 973 AKLKVDG

>MAGIX\_HUMAN|Q9H6Y5 : USER001

151 - 157 LAVRGLL

>MAK10\_HUMAN|Q5VZE5 : USER001

273 - 279 SAIHNSL

>MAK3\_HUMAN|Q147X3 : USER001

355 - 361 LRLKLWL

>MAK\_HUMAN|P20794 : USER001

525 - 531 LAFKRSN

>MALL\_HUMAN|Q13021 : USER001

143 - 149 YILHAFS

>MAML3\_HUMAN|Q96JK9 : USER001

807 - 813 AAVRSQA

1112 - 1118 SIIKGGP

>MAN1\_HUMAN|Q9Y2U8 : USER001

846 - 852 KAFKALH

849 - 855 KALHGSW

>MANBA\_HUMAN|O00462 : USER001

441 - 447 KRLKSHP

>MAOM\_HUMAN|P23368 : USER001

3 - 9 SRLRVVS

66 - 72 LRFHRNL

125 - 131 HIFRRPK

>MAON\_HUMAN|Q16798 : USER001

374 - 380 LIVKGRS

555 - 561 YAYKHNL  
>MAOX\_HUMAN|P48163 : USER001  
339 - 345 LIVKGRA  
>MAP1A\_HUMAN|P78559 : USER001  
261 - 267 KIVRVLF  
311 - 317 SKIKQRA  
>MAP1B\_HUMAN|P46821 : USER001  
98 - 104 KILHHR  
483 - 489 KIIRVLF  
2378 - 2384 KRVRSSY  
>MAPE\_HUMAN|P78395 : USER001  
268 - 274 SHIHASS  
>MAPK2\_HUMAN|P49137 : USER001  
46 - 52 FHVKSGL  
>MARCO\_HUMAN|Q9UEW3 : USER001  
19 - 25 AAFHQIA  
>MARE1\_HUMAN|Q15691 : USER001  
59 - 65 KKVKFQA  
>MARE2\_HUMAN|Q15555 : USER001  
102 - 108 KKVKFQA  
>MARH2\_HUMAN|Q9P0N8 : USER001  
167 - 173 LRLHSQL  
>MARH4\_HUMAN|Q9P2E8 : USER001  
210 - 216 YKYHVIA  
>MARH8\_HUMAN|Q5T0T0 : USER001  
227 - 233 KRLKAYN  
>MARK4\_HUMAN|Q96L34 : USER001  
285 - 291 SILRRFL  
385 - 391 ARVRAPS  
>MAS1L\_HUMAN|P35410 : USER001  
111 - 117 YILHLVA  
>MASP1\_HUMAN|P48740 : USER001  
56 - 62 FRIKLYF  
>MASP2\_HUMAN|Q9UBP3 : USER001  
55 - 61 YRLRLYF  
>MAST1\_HUMAN|Q9Y2H9 : USER001  
817 - 823 ARLRRPP  
1039 - 1045 LILKSGN  
1237 - 1243 AKLHSSP  
1302 - 1308 LALHSLA  
>MAST2\_HUMAN|Q6P0Q8 : USER001  
1176 - 1182 LILKSGN  
>MAST3\_HUMAN|O60307 : USER001

841 - 847 ARLRSNS

>MAST4\_HUMAN|O15021 : USER001

37 - 43 LAFHFWS

380 - 386 LKLRRKP

>MASTL\_HUMAN|Q96GX5 : USER001

59 - 65 YAVKVVK

92 - 98 FIVHLYY

>MASTR\_HUMAN|Q6ZN01 : USER001

15 - 21 SKFRSVL

23 - 29 LRIHRRN

184 - 190 LRLRGLP

>MAZ\_HUMAN|P56270 : USER001

125 - 131 AALKQPP

324 - 330 YHVRSHD

354 - 360 SHVRQVH

>MBB1A\_HUMAN|Q9BQG0 : USER001

854 - 860 SIIRSL

>MBD2\_HUMAN|Q9UBB5 : USER001

185 - 191 KKFRSKP

>MBD3\_HUMAN|O95983 : USER001

41 - 47 KKFRSKP

>MBD4\_HUMAN|O95243 : USER001

116 - 122 LKFRSKS

>MBD5\_HUMAN|Q9P267 : USER001

896 - 902 HALHFPS

>MBD6\_HUMAN|Q96DN6 : USER001

231 - 237 AALRSSL

>MBIP1\_HUMAN|Q9NS73 : USER001

322 - 328 SALKQAL

>MBNL1\_HUMAN|Q9NR56 : USER001

272 - 278 SAVKSLK

>MBNL3\_HUMAN|Q9UF37 : USER001

240 - 246 ARLKAAH

>MBOA1\_HUMAN|Q6ZNC8 : USER001

174 - 180 LAIKVKP

>MBOA5\_HUMAN|Q6P1A2 : USER001

176 - 182 YAIRGVP

348 - 354 YIFKRLK

>MBOA7\_HUMAN|Q96N66 : USER001

331 - 337 YIYKSAP

381 - 387 SALRGRL

>MBTD1\_HUMAN|Q05BQ5 : USER001

349 - 355 HRFKRSR

>MC3R\_HUMAN|P41968 : USER001  
253 - 259 LHVKRIA

>MC4R\_HUMAN|P32245 : USER001  
21 - 27 YRLHSNA  
221 - 227 LHIKRIA

>MC5R\_HUMAN|P33032 : USER001  
5 - 11 FHLHFLD  
60 - 66 AIVKNKN

>MCAF1\_HUMAN|Q6VMQ6 : USER001  
1241 - 1247 FAVRAKD

>MCAF2\_HUMAN|Q5U623 : USER001  
10 - 16 KILKAKK  
581 - 587 LKVKRVF

>MCAR6\_HUMAN|Q5H9E4 : USER001  
268 - 274 LIYRGGS

>MCCA\_HUMAN|Q96RQ3 : USER001  
305 - 311 AAVRAAK

>MCEE\_HUMAN|Q96PE7 : USER001  
140 - 146 KKIRSLS

>MCEM1\_HUMAN|Q8IX19 : USER001  
43 - 49 LAFKNQD

>MCF2L\_HUMAN|Q765G8 : USER001  
1074 - 1080 LRVRS GD

>MCLN1\_HUMAN|Q9GZU1 : USER001  
128 - 134 AIFHAVD  
450 - 456 YHVKFRS

>MCLN2\_HUMAN|Q8IZK6 : USER001  
197 - 203 FHLKGID  
286 - 292 LALRLRK

>MCLN3\_HUMAN|Q8TDD5 : USER001  
220 - 226 FKLKAIN

>MCM10\_HUMAN|Q7L590 : USER001  
733 - 739 KILKAKS

>MCM2\_HUMAN|P49736 : USER001  
197 - 203 HRFKNFL  
682 - 688 SHVRHHP  
778 - 784 ARIHLRD

>MCM3\_HUMAN|P25205 : USER001  
595 - 601 SRLRSQD  
742 - 748 SRLKAFK  
745 - 751 KAFKVAL

>MCM4\_HUMAN|P33991 : USER001  
427 - 433 KRLHGLD

745 - 751 AKVRLSN  
>MCM5\_HUMAN|P33992 : USER001  
159 - 165 SAVRAKA  
>MCM6\_HUMAN|Q14566 : USER001  
599 - 605 KHLRQRD  
>MCM8\_HUMAN|Q9UJA3 : USER001  
158 - 164 LAIHQVL  
>MCM9\_HUMAN|Q9NXL9 : USER001  
71 - 77 SALRRSA  
>MCTP1\_HUMAN|Q6DN14 : USER001  
950 - 956 KKLRSFY  
>MCTP2\_HUMAN|Q6DN12 : USER001  
257 - 263 LRVKVYD  
830 - 836 KKLARNPY  
>MD12L\_HUMAN|Q86YW9 : USER001  
111 - 117 SAIHSWF  
940 - 946 SHLRSKF  
>MD13L\_HUMAN|Q71F56 : USER001  
124 - 130 KAIHNLL  
1497 - 1503 SRLKLYA  
>MDGA1\_HUMAN|Q8NFP4 : USER001  
575 - 581 WRFKGQL  
>MDGA2\_HUMAN|Q7Z553 : USER001  
199 - 205 KILKLKN  
596 - 602 YAVKSLS  
>MDHM\_HUMAN|P40926 : USER001  
11 - 17 AALRRSF  
75 - 81 AAVKGYL  
>MDN1\_HUMAN|Q9NU22 : USER001  
696 - 702 HRLRVVN  
1812 - 1818 AALKAGH  
3553 - 3559 YRYRSRN  
>MDR1\_HUMAN|P08183 : USER001  
408 - 414 KILKGLN  
>MDR3\_HUMAN|P21439 : USER001  
410 - 416 KILKGLN  
>MECR\_HUMAN|Q9BV79 : USER001  
66 - 72 AAVRGSD  
305 - 311 LKLRFWF  
>MED10\_HUMAN|Q9BTT4 : USER001  
103 - 109 KKFKSLI  
>MED11\_HUMAN|Q9P086 : USER001  
100 - 106 ARLKLSI

>MED12\_HUMAN|Q93074 : USER001  
985 - 991 SHLKNKF  
1535 - 1541 LKLRLNL

>MED13\_HUMAN|Q9UHV7 : USER001  
121 - 127 KAVHNLL  
1447 - 1453 SKLKLYA  
2100 - 2106 LHLHVPS

>MED14\_HUMAN|O60244 : USER001  
418 - 424 AILRGFN  
680 - 686 HAIRLLK

>MED15\_HUMAN|Q96RN5 : USER001  
62 - 68 LIHFRD

>MED16\_HUMAN|Q9Y2X0 : USER001  
160 - 166 SRVKFSP  
392 - 398 HIVHRLS  
469 - 475 LALRHLL

>MED17\_HUMAN|Q9NVC6 : USER001  
188 - 194 LRLRQHW  
430 - 436 KIIKQAK  
616 - 622 SHLRGPF

>MED23\_HUMAN|Q9Y5P7 : USER001  
62 - 68 WIVKFIH  
1325 - 1331 LKLRLRF

>MED26\_HUMAN|O95402 : USER001  
92 - 98 AALRGLA

>MED30\_HUMAN|Q96HR3 : USER001  
147 - 153 KKLKQKN

>MEF2C\_HUMAN|Q06413 : USER001  
340 - 346 SALHLGS

>MEFV\_HUMAN|O15553 : USER001  
24 - 30 FKFKLQN

>MELK\_HUMAN|Q14680 : USER001  
144 - 150 HKLKLID

>MELT\_HUMAN|Q9H9Q7 : USER001  
556 - 562 SKVKAYA

>MEMO1\_HUMAN|Q9Y316 : USER001  
61 - 67 HAYKQVD

>MEN1\_HUMAN|O00255 : USER001  
578 - 584 SAIKLQL

>MEOX2\_HUMAN|P50222 : USER001  
27 - 33 LALHGRS

>MEP1B\_HUMAN|Q16820 : USER001  
396 - 402 KKFRVVF

>MERL\_HUMAN|Q96T33 : USER001  
222 - 228 FAIRNKK  
288 - 294 SKLRVNK

>MESP1\_HUMAN|Q9BRJ9 : USER001  
193 - 199 SAVRAGA

>MEST\_HUMAN|Q5EB52 : USER001  
259 - 265 KKFRRRW

>MET7A\_HUMAN|Q9H8H3 : USER001  
218 - 224 SKLKLQH

>METH\_HUMAN|Q99707 : USER001  
814 - 820 KILKAAL

>METL4\_HUMAN|Q8N3J2 : USER001  
333 - 339 KHLRFIK

>METL6\_HUMAN|Q8TCB7 : USER001  
198 - 204 LRFKASS

>METL8\_HUMAN|Q9H825 : USER001  
69 - 75 SAVRVLL

>MET\_HUMAN|P08581 : USER001  
564 - 570 AIYKVFP

>MEX3A\_HUMAN|A1L020 : USER001  
124 - 130 LRLKGSS

>MEX3D\_HUMAN|Q86XN8 : USER001  
57 - 63 AALRLAL

>MFAP1\_HUMAN|P55081 : USER001  
329 - 335 KAVKGKY

>MFGM\_HUMAN|Q08431 : USER001  
156 - 162 KAFKVAY

>MFHA1\_HUMAN|Q9Y4C4 : USER001  
18 - 24 AALRARK  
224 - 230 SALRALK

>MFN2\_HUMAN|O95140 : USER001  
83 - 89 SKVRGBIS

>MFNG\_HUMAN|O00587 : USER001  
24 - 30 LRYHLNL  
299 - 305 SRFRSLH

>MFRN2\_HUMAN|Q96A46 : USER001  
109 - 115 ARYRNVL

>MFSD2\_HUMAN|Q8NA29 : USER001  
426 - 432 FHLKQPH

>MFSD5\_HUMAN|Q6N075 : USER001  
305 - 311 KRYHLQP

>MGAT2\_HUMAN|Q10469 : USER001  
236 - 242 WKLHFVW



>MGA\_HUMAN|O43451 : USER001  
153 - 159 ARLKNLP  
813 - 819 LHLRGGY  
1709 - 1715 LHVRGGY  
>MGST1\_HUMAN|P10620 : USER001  
103 - 109 AILHFRL  
>MGST2\_HUMAN|Q99735 : USER001  
141 - 147 KKLRRQF  
>MGT4A\_HUMAN|Q9UM21 : USER001  
350 - 356 LRIRFRP  
386 - 392 LKIHVNP  
>MGT4B\_HUMAN|Q9UQ53 : USER001  
357 - 363 LRIRFKP  
>MGT4C\_HUMAN|Q9UBM8 : USER001  
468 - 474 LIIRSIS  
>MGT5B\_HUMAN|Q3V5L5 : USER001  
687 - 693 HALRAWL  
>MIA2\_HUMAN|Q96PC5 : USER001  
533 - 539 FIFKHNL  
>MIB1\_HUMAN|Q86YT6 : USER001  
118 - 124 HHLRHRF  
603 - 609 AALRGNP  
>MIB2\_HUMAN|Q8NG59 : USER001  
975 - 981 SHIRLVF  
>MICA1\_HUMAN|Q8TDZ2 : USER001  
605 - 611 SHFHSAF  
954 - 960 LALRRQS  
>MICA3\_HUMAN|Q7RTP6 : USER001  
51 - 57 HKLKSKL  
443 - 449 SIYRLLP  
>MIDN\_HUMAN|Q504T8 : USER001  
141 - 147 LALRVGD  
402 - 408 KRLRRKA  
>MIER2\_HUMAN|Q8N344 : USER001  
314 - 320 FRVHGKN  
>MIER3\_HUMAN|Q7Z3K6 : USER001  
539 - 545 HALHQHA  
>MILK2\_HUMAN|Q8IY33 : USER001  
886 - 892 SKFRLSK  
>MINA\_HUMAN|Q8IUF8 : USER001  
392 - 398 YIYHSLK  
>MINK1\_HUMAN|Q8N4C8 : USER001  
142 - 148 AHLHAHK

385 - 391 AHIKHL  
>MINP1\_HUMAN|Q9UNW1 : USER001  
157 - 163 LALRLAS  
292 - 298 LAIKGVK  
>MINT\_HUMAN|Q96T58 : USER001  
2446 - 2452 ARFRVHS  
>MK04\_HUMAN|P31152 : USER001  
67 - 73 KIIRRLD  
>MK06\_HUMAN|Q16659 : USER001  
67 - 73 KIIRRLD  
715 - 721 SILKHLN  
>MK07\_HUMAN|Q13164 : USER001  
103 - 109 KILKHFK  
339 - 345 AALRHPF  
476 - 482 AALKAAL  
>MK11\_HUMAN|Q15759 : USER001  
272 - 278 SIFRGAN  
>MKKS\_HUMAN|Q9NPJ1 : USER001  
177 - 183 LILRAFL  
>MKL1\_HUMAN|Q969V6 : USER001  
359 - 365 LKLRSPL  
>MKL2\_HUMAN|Q9ULH7 : USER001  
88 - 94 HKIRSRP  
401 - 407 LKLRGLP  
>MKLN1\_HUMAN|Q9UL63 : USER001  
182 - 188 KHFRQHN  
>MKS1\_HUMAN|Q9NXB0 : USER001  
24 - 30 LRLRVHL  
>MKX\_HUMAN|Q8IYA7 : USER001  
141 - 147 LRIKLYN  
>MLF1\_HUMAN|P58340 : USER001  
256 - 262 LHIKSS  
>MLF2\_HUMAN|Q15773 : USER001  
20 - 26 FAIHRQH  
>MLH1\_HUMAN|P40692 : USER001  
164 - 170 KALKNPS  
>MLH3\_HUMAN|Q9UHC1 : USER001  
11 - 17 AKLRSG  
>MLL2\_HUMAN|O14686 : USER001  
4713 - 4719 KRLRLLL  
>MLL3\_HUMAN|Q8NEZ4 : USER001  
4161 - 4167 YRLKQPN  
4275 - 4281 KAFHQYS

4452 - 4458 LALRRGL

>MLP3A\_HUMAN|Q9H492 : USER001

65 - 71 KIIRRRL

>MLP3B\_HUMAN|Q9GZQ8 : USER001

65 - 71 KIIRRRL

>MLTK\_HUMAN|Q9N9E9 : USER001

396 - 402 HIIHFKS

>MMAA\_HUMAN|Q8IVH4 : USER001

142 - 148 LAFRVGL

412 - 418 KAFKSRD

>MMP10\_HUMAN|P09238 : USER001

466 - 472 HILKSNS

>MMP13\_HUMAN|P45452 : USER001

140 - 146 KAFKVWS

347 - 353 FIFRGRK

>MMP16\_HUMAN|P51512 : USER001

150 - 156 KAIRRAF

>MMP17\_HUMAN|Q9ULZ9 : USER001

165 - 171 YALKVWS

>MMP19\_HUMAN|Q99542 : USER001

127 - 133 AALRQAF

>MMP20\_HUMAN|O60882 : USER001

248 - 254 YKYKNPY

>MMP24\_HUMAN|Q9Y5R2 : USER001

99 - 105 SALHSAK

186 - 192 KAIRQAF

>MMP25\_HUMAN|Q9NPA2 : USER001

3 - 9 LRLRLLA

122 - 128 WRVRSFP

354 - 360 ARLHRFW

>MMP28\_HUMAN|Q9H239 : USER001

340 - 346 YIFKGSH

394 - 400 WRFRGPK

>MMSA\_HUMAN|Q02252 : USER001

19 - 25 SKVKSSP

>MND1\_HUMAN|Q9BWT6 : USER001

77 - 83 KALHARK

174 - 180 FAIKSWA

>MNDA\_HUMAN|P41218 : USER001

247 - 253 FHVKVFD

>MNS1\_HUMAN|Q8NEH6 : USER001

24 - 30 KKLHVQA

126 - 132 KKLKAAY

>MOAP1\_HUMAN|Q96BY2 : USER001  
163 - 169 KKLRVFS

>MOBL3\_HUMAN|Q9Y3A3 : USER001  
84 - 90 LAVKLQS

>MOCOS\_HUMAN|Q96EN8 : USER001  
122 - 128 AALKLVA

>MOD5\_HUMAN|Q9H3H1 : USER001  
412 - 418 AHIKSKS

>MOES\_HUMAN|P26038 : USER001  
78 - 84 FKFRKAF

>MOGT1\_HUMAN|Q96PD6 : USER001  
41 - 47 LIIHNYL

>MOGT3\_HUMAN|Q86VF5 : USER001  
218 - 224 LALRHGA  
238 - 244 FRLKAF

>MOG\_HUMAN|Q99605 : USER001  
180 - 186 YRLRGKL

>MOL1A\_HUMAN|Q7L9L4 : USER001  
161 - 167 HIYHQHF

>MOL1B\_HUMAN|Q9H8S9 : USER001  
161 - 167 HIYHQHF

>MON1A\_HUMAN|Q86VX9 : USER001  
151 - 157 WRLHQKH

>MON1B\_HUMAN|Q7L1V2 : USER001  
453 - 459 HRLHARL

>MORC1\_HUMAN|Q86VD1 : USER001  
387 - 393 LKLKSL  
879 - 885 KKIKRKL  
920 - 926 LRIKLAL

>MORC4\_HUMAN|Q8TE76 : USER001  
895 - 901 LRIHVS

>MORN1\_HUMAN|Q5T089 : USER001  
457 - 463 KHLRVVA

>MORN3\_HUMAN|Q6PF18 : USER001  
152 - 158 LRLKNGN

>MOSC2\_HUMAN|Q969Z3 : USER001  
123 - 129 LIFRAPD

>MOV10\_HUMAN|Q9HCE1 : USER001  
567 - 573 LRVHLPS  
574 - 580 SIYRLLA

>MOXD1\_HUMAN|Q6UVY6 : USER001  
507 - 513 FIIKSPK

>MP2K3\_HUMAN|P46734 : USER001

262 - 268 AILRFPY

>MP2K4\_HUMAN|P45985 : USER001

42 - 48 KALKLNF

>MP2K5\_HUMAN|Q13163 : USER001

182 - 188 KAYHVPS

192 - 198 LAVKVIL

>MP2K6\_HUMAN|P52564 : USER001

251 - 257 AILRFPY

>MP2K7\_HUMAN|O14733 : USER001

225 - 231 AIVKALY

>MPDZ\_HUMAN|Q5VZ62 : USER001

1035 - 1041 SIIHGGA

>MPIP2\_HUMAN|P30305 : USER001

520 - 526 YILKGGY

>MPIP3\_HUMAN|P30307 : USER001

410 - 416 YILKGGY

>MPND\_HUMAN|Q8N594 : USER001

163 - 169 LRLHQLH

>MPP10\_HUMAN|O00566 : USER001

253 - 259 KKLKSGK

>MPP3\_HUMAN|Q13368 : USER001

136 - 142 KIVRLVK

>MPP7\_HUMAN|Q5T2T1 : USER001

138 - 144 KIIRLVK

>MPP8\_HUMAN|Q99549 : USER001

702 - 708 SALHFAK

783 - 789 FIFHANF

>MPP9\_HUMAN|Q99550 : USER001

237 - 243 SKIRQNL

453 - 459 SRIHVRP

>MPPA\_HUMAN|Q10713 : USER001

21 - 27 SRLRFGP

>MPPB\_HUMAN|O75439 : USER001

256 - 262 AKFHFGD

>MPRB\_HUMAN|Q8TEZ7 : USER001

199 - 205 YRYRRPY

343 - 349 HKVKARL

>MPRD\_HUMAN|P20645 : USER001

120 - 126 LIYKGGD

>MPRI\_HUMAN|P11717 : USER001

2031 - 2037 KIYKGPL

>MPU1\_HUMAN|O75352 : USER001

63 - 69 FKIRGAK

>MRAP\_HUMAN|Q8TCY5 : USER001  
29 - 35 KKLKAHK

>MRCKB\_HUMAN|Q9Y5S2 : USER001  
3 - 9 AKVRLKK  
1301 - 1307 HHVHLYP

>MRCKG\_HUMAN|Q6DT37 : USER001  
181 - 187 LAIHSLH

>MRE11\_HUMAN|P49959 : USER001  
287 - 293 LRIKGRK

>MRP4\_HUMAN|O15439 : USER001  
149 - 155 AILHPLY  
177 - 183 KALRLSN

>MRP5\_HUMAN|O15440 : USER001  
261 - 267 KILKLN  
263 - 269 LKLKNIK  
565 - 571 KHIHLGH  
1176 - 1182 ARIKNKA

>MRP6\_HUMAN|O95255 : USER001  
493 - 499 SILRNSK

>MRP7\_HUMAN|Q5T3U5 : USER001  
66 - 72 WRLRLAA

>MRP9\_HUMAN|Q96J65 : USER001  
91 - 97 KRFRVLW  
285 - 291 SAFRRSA

>MRV11\_HUMAN|Q9Y6F6 : USER001  
488 - 494 LRVHRSL

>MSH2\_HUMAN|P43246 : USER001  
119 - 125 LAYKASP  
305 - 311 AAVRALN

>MSH3\_HUMAN|P20585 : USER001  
735 - 741 KILKNPS  
778 - 784 SRFHSPF  
823 - 829 KAVHHLA

>MSH4\_HUMAN|O15457 : USER001  
561 - 567 SKVKNSY  
644 - 650 LAIKQGW  
745 - 751 YILHNAN

>MSLNL\_HUMAN|Q96KJ4 : USER001  
167 - 173 ARLRLSA

>MSPD2\_HUMAN|Q8NHP6 : USER001  
311 - 317 SKVKAFK

>MSPD3\_HUMAN|O75425 : USER001  
133 - 139 SILRAPA

>MST4\_HUMAN|Q9P289 : USER001  
273 - 279 FIVKNSK

>MSTO1\_HUMAN|Q8TE05 : USER001  
131 - 137 WRVKSIP  
168 - 174 LRVHLHP

>MSTO2\_HUMAN|P0C5E8 : USER001  
131 - 137 WRVKSIP  
168 - 174 LRVHLHP

>MSTRO\_HUMAN|Q9BYG7 : USER001  
36 - 42 WKLRFQK

>MTA1\_HUMAN|Q13330 : USER001  
349 - 355 SKLKQVY

>MTA2\_HUMAN|O94776 : USER001  
329 - 335 SKLKQVY

>MTA3\_HUMAN|Q9BTC8 : USER001  
332 - 338 SKLKQVY  
487 - 493 LRLRQAA

>MTA70\_HUMAN|Q86U44 : USER001  
563 - 569 ARFKQRY

>MTER3\_HUMAN|Q49AM1 : USER001  
249 - 255 SKLKGFL

>MTF2\_HUMAN|Q9Y483 : USER001  
346 - 352 LRIRVPP  
372 - 378 FKIKGK

>MTG16\_HUMAN|Q6P5W6 : USER001  
175 - 181 SKLKRFL

>MTG8R\_HUMAN|Q9UJP9 : USER001  
117 - 123 SKLKRFL

>MTG8\_HUMAN|Q92479 : USER001  
124 - 130 SKLKRFL

>MTL5\_HUMAN|Q9Y4I5 : USER001  
24 - 30 KALHLVP

>MTLR\_HUMAN|O43193 : USER001  
360 - 366 KKYRAAA  
365 - 371 AAFKLLL

>MTMR1\_HUMAN|Q13613 : USER001  
481 - 487 FALRVGH

>MTMR3\_HUMAN|Q13615 : USER001  
545 - 551 KAFKNLL  
748 - 754 AALRSHL  
982 - 988 AHLHSRN

>MTMR4\_HUMAN|Q9NYA4 : USER001  
60 - 66 LHIKFKD

347 - 353 HAIRNSF

>MTMR5\_HUMAN|O95248 : USER001

496 - 502 SHLRRVP

>MTMR6\_HUMAN|Q9Y217 : USER001

535 - 541 SKIKQRK

>MTMRA\_HUMAN|Q9NXD2 : USER001

6 - 12 FHYRNLL

101 - 107 KKYHNSA

>MTMRC\_HUMAN|Q9C0I1 : USER001

332 - 338 SKFKQLF

>MTMRD\_HUMAN|Q96FE2 : USER001

574 - 580 AALRALK

>MTMRF\_HUMAN|Q9Y2M0 : USER001

760 - 766 KKFKHLF

>MTPN\_HUMAN|P58546 : USER001

8 - 14 WALKNGD

>MTP\_HUMAN|P55157 : USER001

100 - 106 SIFKGKS

275 - 281 AIIKAVD

475 - 481 LALKNAL

591 - 597 KIVRRVL

>MTSS1\_HUMAN|O43312 : USER001

91 - 97 AKLRQFS

299 - 305 YRYRSSN

>MTUS1\_HUMAN|Q9ULD2 : USER001

1232 - 1238 WKLHNGD

>MUC13\_HUMAN|Q9H3R2 : USER001

308 - 314 KAIRSSS

>MUC16\_HUMAN|Q8WXI7 : USER001

466 - 472 SKIRSPS

2569 - 2575 KAIHSSP

4241 - 4247 KAIHHSA

>MUC18\_HUMAN|P43121 : USER001

206 - 212 SILKAQL

>MUC4\_HUMAN|Q9NY76 : USER001

1681 - 1687 LALRNAS

>MUC\_HUMAN|P01871 : USER001

42 - 48 WKYKNNS

>MUM1\_HUMAN|Q2TAK8 : USER001

85 - 91 LAYRRSL

204 - 210 SRIHHKN

587 - 593 SHLRAIL

591 - 597 AILKSRK



>MUSC\_HUMAN|O60682 : USER001  
157 - 163 AHLRQLL

>MUT7\_HUMAN|Q8N9H8 : USER001  
141 - 147 AHVHRLH

>MUTA\_HUMAN|P22033 : USER001  
441 - 447 AALKLIN  
599 - 605 SAIKRVH

>MVP\_HUMAN|Q14764 : USER001  
121 - 127 LHLKALL  
174 - 180 LRLRARK  
744 - 750 AKLKAQA

>MXRA5\_HUMAN|Q9NR99 : USER001  
788 - 794 AKVRGKN  
2196 - 2202 SRIKVFA

>MY15B\_HUMAN|Q96JP2 : USER001  
126 - 132 SHYHHGD

>MY18A\_HUMAN|Q92614 : USER001  
668 - 674 AIYHLGA  
712 - 718 AIFKHQH  
1039 - 1045 SKLHFVH  
1701 - 1707 AAVKARK

>MY18B\_HUMAN|Q8IUG5 : USER001  
829 - 835 AIYHLGA  
1169 - 1175 AAVRRKA  
1194 - 1200 SRLHFIH  
1359 - 1365 LKIRRLA

>MYBB\_HUMAN|P10244 : USER001  
111 - 117 KHLKGRL

>MYCB2\_HUMAN|O75592 : USER001  
366 - 372 SRIRNRK  
857 - 863 ARLRSHP  
1367 - 1373 HILKRSF  
1580 - 1586 SIVKQVS  
1791 - 1797 YAVRLRN  
2441 - 2447 LRIRSHP  
3455 - 3461 ARVKAIP  
3645 - 3651 LKFKQSD  
3824 - 3830 LRVRQVK

>MYCBP\_HUMAN|Q99417 : USER001  
2 - 8 AHYKAAD  
84 - 90 KKLKAKL

>MYCD\_HUMAN|Q8IZQ8 : USER001  
14 - 20 SKFRSVL

236 - 242 AAVKSKS

383 - 389 LRIRGLP

>MYCL2\_HUMAN|P12525 : USER001

276 - 282 KKYHSYL

>MYCPP\_HUMAN|Q7Z401 : USER001

785 - 791 SKVRALK

828 - 834 LAVRVLF

>MYCT1\_HUMAN|Q8N699 : USER001

227 - 233 SIIKAFP

>MYH10\_HUMAN|P35580 : USER001

1216 - 1222 KRFKANL

>MYH11\_HUMAN|P35749 : USER001

345 - 351 SILKVVS

1302 - 1308 KAIKLAK

1877 - 1883 ARVKQLK

1926 - 1932 SKLRRGN

>MYH13\_HUMAN|Q9UKX3 : USER001

141 - 147 AAYRGKK

1561 - 1567 KILRVQL

1807 - 1813 LALKGGK

1877 - 1883 AKVKSYP

>MYH14\_HUMAN|Q9H882 : USER001

1894 - 1900 LRVKQLK

>MYH15\_HUMAN|Q9Y2K3 : USER001

1569 - 1575 KILHFQL

>MYH1\_HUMAN|P12882 : USER001

1486 - 1492 FKIKNAY

1807 - 1813 LALKGGK

1877 - 1883 AKVKSYP

>MYH2\_HUMAN|Q9UKX2 : USER001

1488 - 1494 FKIKNAY

1809 - 1815 LALKGGK

1879 - 1885 AKVKSYP

>MYH3\_HUMAN|P11055 : USER001

1483 - 1489 FKLKNAY

1804 - 1810 LALKGGK

>MYH4\_HUMAN|Q9Y623 : USER001

1486 - 1492 FKVKNAY

1807 - 1813 LALKGGK

1880 - 1886 KAYKRQA

>MYH6\_HUMAN|P13533 : USER001

140 - 146 AAYRGKK

1484 - 1490 FKLKNAY

1559 - 1565 KILRAQL

1875 - 1881 LKVKAYK

1878 - 1884 KAYKRQA

>MYH7\_HUMAN|Q9UMM8 : USER001

140 - 146 AAYRGKK

1482 - 1488 FKLKNAY

1557 - 1563 KILRAQL

1873 - 1879 LKVKAYK

1876 - 1882 KAYKRQA

>MYH8\_HUMAN|P13535 : USER001

143 - 149 AAYRGKK

1485 - 1491 FKVKNVY

1806 - 1812 LALKGGK

1876 - 1882 AKVKSYP

>MYH9\_HUMAN|P35579 : USER001

63 - 69 KKVKNK

1019 - 1025 AKLKNKH

1209 - 1215 KRVKANL

>MYLIP\_HUMAN|Q8WY64 : USER001

74 - 80 LKLRVKF

>MYLK3\_HUMAN|Q32MK0 : USER001

520 - 526 KIIKVKS

>MYLK\_HUMAN|Q5MYA0 : USER001

1400 - 1406 YKFRVRA

1402 - 1408 FRVRAN

>MYLPL\_HUMAN|Q9BUA6 : USER001

161 - 167 HAFKVFD

>MYNN\_HUMAN|Q86Z11 : USER001

402 - 408 LKIHARK

>MYO10\_HUMAN|Q9HD67 : USER001

169 - 175 LILKFLS

673 - 679 YAVRRPF

1393 - 1399 FIVRGWL

1831 - 1837 AALRLQY

>MYO15\_HUMAN|Q9UKN7 : USER001

1481 - 1487 SILHLGN

2087 - 2093 SIFKLIL

2483 - 2489 AALRSLP

>MYO16\_HUMAN|Q9Y6X6 : USER001

46 - 52 KRLKHAK

67 - 73 AIIHHND

668 - 674 AILHLGD

963 - 969 FKFRGHK

>MYO1B\_HUMAN|O43795 : USER001  
632 - 638 YAFRQAY  
713 - 719 KIYRGWK

>MYO1C\_HUMAN|O00159 : USER001  
627 - 633 FAYRRKY  
720 - 726 LRVKRSA  
759 - 765 FILRHAP

>MYO1D\_HUMAN|O94832 : USER001  
273 - 279 AILHLGN  
503 - 509 FRIRHYA

>MYO1E\_HUMAN|Q12965 : USER001  
502 - 508 FIIHHYA  
623 - 629 YAYRRIF

>MYO1F\_HUMAN|O00160 : USER001  
621 - 627 FAYRRQF

>MYO3A\_HUMAN|Q8NEV4 : USER001  
1355 - 1361 SKYRGYK

>MYO5A\_HUMAN|Q9Y4I1 : USER001  
89 - 95 LRVRFID  
425 - 431 SAVKQHS  
834 - 840 YKIRRAA  
871 - 877 KRVRGWL  
1267 - 1273 LILRSQL  
1663 - 1669 SILRQLN

>MYO5B\_HUMAN|Q9ULV0 : USER001  
331 - 337 SILHLGS  
1520 - 1526 LKVHSL

>MYO5C\_HUMAN|Q9NQX4 : USER001  
120 - 126 AIIHAYS  
273 - 279 KHLKLGS  
329 - 335 AILHLGN  
626 - 632 SKFRSSL  
916 - 922 AALRAGD

>MYO6\_HUMAN|Q9UM54 : USER001  
545 - 551 SAVHQKH  
577 - 583 FIIRHFA  
1032 - 1038 LALRRSL

>MYO7A\_HUMAN|Q13402 : USER001  
324 - 330 AILHLGN  
765 - 771 LKLKNAA  
831 - 837 KAFRHRL  
1876 - 1882 KALRNGS  
2040 - 2046 LIYRVKF

>MYO9B\_HUMAN|Q13459 : USER001  
609 - 615 AKFKQQH  
993 - 999 YRVRRAL  
1027 - 1033 SIIRLQS  
1825 - 1831 LIFHLVK  
>MYOF\_HUMAN|Q9NZM0 : USER001  
1269 - 1275 LILRGKD  
1681 - 1687 ARFKGFP  
1714 - 1720 KILHQHL  
>MYOM1\_HUMAN|P52179 : USER001  
444 - 450 YIFRVRA  
446 - 452 FRVRAVN  
475 - 481 ARLKSPL  
670 - 676 YIFRVRA  
672 - 678 FRVRAVN  
859 - 865 AAIKNVY  
866 - 872 LKVRGLK  
879 - 885 FRVRRAIN  
1205 - 1211 SRLKLVD  
>MYOM2\_HUMAN|P54296 : USER001  
453 - 459 YIFRVRA  
455 - 461 FRVRAVN  
680 - 686 YIFRVKA  
682 - 688 FRVKAVN  
885 - 891 FRVRAVN  
>MYOM3\_HUMAN|Q8NA11 : USER001  
443 - 449 YRFRVRA  
445 - 451 FRVRAIS  
>MYOME\_HUMAN|Q86TB2 : USER001  
1377 - 1383 SRVRSLs  
1695 - 1701 FHFHSIP  
2238 - 2244 SALHHAL  
>MYPC1\_HUMAN|Q00872 : USER001  
514 - 520 AKVHVID  
>MYPC2\_HUMAN|Q14324 : USER001  
393 - 399 ARYRFKK  
>MYPC3\_HUMAN|Q14896 : USER001  
498 - 504 FKYRFKK  
587 - 593 SRIKVSH  
941 - 947 FRVRAHN  
>MYPN\_HUMAN|Q86TC9 : USER001  
596 - 602 LRVHFNL  
>MYPT2\_HUMAN|O60237 : USER001

467 - 473 SIYRSSH

>MYSM1\_HUMAN|Q5VVJ2 : USER001

644 - 650 LAVRGFS

>MYST4\_HUMAN|Q8WYB5 : USER001

612 - 618 SIFKAIA

>MYT1\_HUMAN|Q01538 : USER001

15 - 21 KALRGPP

784 - 790 FKLKFLS

>MZF1\_HUMAN|P28698 : USER001

576 - 582 KAQRQP

688 - 694 KAQRQP

>N4BP2\_HUMAN|Q86UW6 : USER001

533 - 539 HKYKVLV

>NAC1\_HUMAN|P32418 : USER001

199 - 205 KHLRVFF

264 - 270 KRYRAGK

890 - 896 AIYHAAN

>NAC2\_HUMAN|Q9UPR5 : USER001

193 - 199 KHLRVFF

>NAC3\_HUMAN|P57103 : USER001

198 - 204 KHLRVFF

>NACA2\_HUMAN|Q9H009 : USER001

194 - 200 KAVRALK

>NACA\_HUMAN|Q13765 : USER001

194 - 200 KAVRALK

>NACP1\_HUMAN|Q9BZK3 : USER001

78 - 84 ARFKLGL

193 - 199 KAVRALK

>NADAP\_HUMAN|Q9BWU0 : USER001

207 - 213 SRYHAVL

>NADE1\_HUMAN|Q6IA69 : USER001

38 - 44 ARYRLGP

>NADK\_HUMAN|O95544 : USER001

240 - 246 LKVRVVK

>NADL2\_HUMAN|Q58DX5 : USER001

479 - 485 SKVCRGW

>NAGAB\_HUMAN|P17050 : USER001

349 - 355 YRYHSSL

>NAGS\_HUMAN|Q8N159 : USER001

378 - 384 LRVSLD

>NAGT1\_HUMAN|Q5TF39 : USER001

224 - 230 AKYHNAL

503 - 509 AHVKHLP

>NAG\_HUMAN|A2RRP1 : USER001  
718 - 724 KKFRNQN  
1789 - 1795 KKFKVVA  
2134 - 2140 AILKASW  
>NAL10\_HUMAN|Q86W26 : USER001  
26 - 32 KKLKFYL  
586 - 592 FKIKHSN  
>NAL12\_HUMAN|P59046 : USER001  
26 - 32 KKFKLYL  
>NAL13\_HUMAN|Q86W25 : USER001  
343 - 349 KILHSL  
634 - 640 HILRLFH  
736 - 742 SKLHASS  
803 - 809 KALRHSA  
>NAL14\_HUMAN|Q86W24 : USER001  
313 - 319 KRLKQLL  
554 - 560 LKIKSKL  
>NALCN\_HUMAN|Q8IZF0 : USER001  
609 - 615 KKLKQLK  
1488 - 1494 FRVKFLL  
>NALD2\_HUMAN|Q9Y3Q0 : USER001  
197 - 203 KIFRGNK  
624 - 630 SAVKNFS  
>NALP2\_HUMAN|Q9NX02 : USER001  
95 - 101 AALKSFN  
749 - 755 LALRGHK  
>NALP3\_HUMAN|Q8TEU9 : USER001  
547 - 553 SRLKLPS  
>NALP5\_HUMAN|P59047 : USER001  
626 - 632 FHIHSLW  
>NALP6\_HUMAN|P59044 : USER001  
35 - 41 KRFRHKL  
>NALP7\_HUMAN|Q8WX94 : USER001  
555 - 561 AHLHANK  
792 - 798 KHLRLSA  
>NALP8\_HUMAN|Q86W28 : USER001  
491 - 497 SILRRIA  
>NALP9\_HUMAN|Q7RTR0 : USER001  
316 - 322 KALKVFN  
742 - 748 SKLKHLS  
984 - 990 YKIRGVL  
>NANO1\_HUMAN|Q8WY41 : USER001  
230 - 236 HILKGPD

>NANP\_HUMAN|Q8TBE9 : USER001  
4 - 10 SRVRAVF

>NAP5\_HUMAN|O14513 : USER001  
1897 - 1903 KALKSAA

>NAPEP\_HUMAN|Q6IQ20 : USER001  
163 - 169 KRFRRSP

>NAR3\_HUMAN|Q13508 : USER001  
136 - 142 KAFHFYL

>NAR5\_HUMAN|Q96L15 : USER001  
132 - 138 KALHFYL

>NARF\_HUMAN|Q9UHQ1 : USER001  
301 - 307 HIFRHAA

>NARG2\_HUMAN|Q71H65 : USER001  
761 - 767 KKIRRQF  
872 - 878 LIYKASD

>NAT10\_HUMAN|Q9H0A0 : USER001  
536 - 542 SHYKNSP

>NAT14\_HUMAN|Q8WUY8 : USER001  
75 - 81 AAVKLGL

>NAT8B\_HUMAN|Q9UHF3 : USER001  
215 - 221 FIYHLPS

>NAT8L\_HUMAN|Q8N9F0 : USER001  
312 - 318 HRYRLQL

>NAT8\_HUMAN|Q9UHE5 : USER001  
215 - 221 FIYHLPS

>NAV1\_HUMAN|Q9H7V9 : USER001  
1123 - 1129 SRLRHLA  
1174 - 1180 LRIKRQN  
1492 - 1498 SHVKRVL

>NAV2\_HUMAN|Q8NHDO : USER001  
1605 - 1611 SRFRNSS  
1646 - 1652 SRLHSSL  
1792 - 1798 LRIRRQH

>NAV3\_HUMAN|Q8IVL0 : USER001  
8 - 14 SKLRQPA  
633 - 639 FIYRAHS  
1662 - 1668 LRIRRQH

>NB5R1\_HUMAN|Q9UHQ9 : USER001  
62 - 68 KRFRFAL

>NB5R3\_HUMAN|P00387 : USER001  
231 - 237 ARFKLWY

>NBEAL\_HUMAN|Q6ZS30 : USER001  
908 - 914 FIYKHRK



>NBEA\_HUMAN|Q8NFP9 : USER001  
212 - 218 HAVKLLS  
1977 - 1983 HIVRVAN  
>NBN\_HUMAN|O60934 : USER001  
530 - 536 SIVKNSA  
>NBR1\_HUMAN|Q14596 : USER001  
895 - 901 SAYKALF  
>NCA11\_HUMAN|P13591 : USER001  
572 - 578 YAVRLAA  
>NCA12\_HUMAN|P13592 : USER001  
572 - 578 YAVRLAA  
>NCAM2\_HUMAN|O15394 : USER001  
257 - 263 YILKGSN  
>NCK1\_HUMAN|P16333 : USER001  
66 - 72 SIVKNLK  
328 - 334 KHFKVQL  
>NCK2\_HUMAN|O43639 : USER001  
39 - 45 WRVRNAA  
331 - 337 KHFKVQL  
>NCKX1\_HUMAN|O60721 : USER001  
645 - 651 KKLKLPS  
>NCKX6\_HUMAN|Q6J4K2 : USER001  
325 - 331 KALKVFK  
>NCLN\_HUMAN|Q9BTX4 : USER001  
99 - 105 KALRQSA  
320 - 326 LHLHVSX  
375 - 381 FAIRRLP  
>NCOA1\_HUMAN|Q6GVI5 : USER001  
158 - 164 SILHVGD  
688 - 694 KILHRLL  
>NCOA2\_HUMAN|Q15596 : USER001  
161 - 167 SILHVGD  
688 - 694 KILHRLL  
1085 - 1091 LALRNFD  
>NCOA6\_HUMAN|Q14686 : USER001  
67 - 73 AILKNVP  
81 - 87 SKLKVQK  
>NCOA7\_HUMAN|Q8NI08 : USER001  
323 - 329 SKFKSIN  
>NCOAT\_HUMAN|O60502 : USER001  
269 - 275 KIIKRAP  
679 - 685 WAFRGGL  
>NCS1\_HUMAN|P62166 : USER001

50 - 56 KIYKQFF  
103 - 109 WAFKLYD  
>NDC1\_HUMAN|Q9BTX1 : USER001  
203 - 209 LRFRRSL  
632 - 638 FAFRASL  
>NDEL1\_HUMAN|Q9GZM8 : USER001  
24 - 30 LKYKQSF  
>NDF2\_HUMAN|Q15784 : USER001  
119 - 125 SKLRRQK  
>NDF6\_HUMAN|Q96NK8 : USER001  
318 - 324 LHLRSQS  
>NDOR1\_HUMAN|Q9UHB4 : USER001  
110 - 116 KKLHRRL  
>NDST1\_HUMAN|P52848 : USER001  
467 - 473 ARYRRGF  
>NDST2\_HUMAN|P52849 : USER001  
466 - 472 ARYRRGF  
>NDST3\_HUMAN|O95803 : USER001  
458 - 464 ARYRRGF  
715 - 721 AALKFSF  
>NDST4\_HUMAN|Q9H3R1 : USER001  
714 - 720 AALRFNF  
>NDUB4\_HUMAN|O95168 : USER001  
37 - 43 LAIRAQL  
>NDUS1\_HUMAN|P28331 : USER001  
621 - 627 KIIRALS  
>NDUS8\_HUMAN|O00217 : USER001  
99 - 105 HALRRYP  
>NDUV1\_HUMAN|P49821 : USER001  
51 - 57 WRLKGSL  
>NDUV2\_HUMAN|P19404 : USER001  
5 - 11 AALRARA  
65 - 71 AIVKNYP  
>NEB1\_HUMAN|Q9ULJ8 : USER001  
404 - 410 YRVRSRY  
>NEBL\_HUMAN|O76041 : USER001  
819 - 825 AAYKGVH  
874 - 880 SHYRRHW  
>NEBU\_HUMAN|P20929 : USER001  
919 - 925 HILHSYS  
982 - 988 KKYRQHP  
1226 - 1232 KKYRQHP  
1714 - 1720 KKYRQHP

1958 - 1964 KKYRQHP

2306 - 2312 YKYKQGY

2445 - 2451 KKYRQPP

2931 - 2937 KIYRQPP

4065 - 4071 SILHSKN

4940 - 4946 HAYKLQS

>NECA1\_HUMAN|Q8N987 : USER001

20 - 26 SALHLSK

>NECA2\_HUMAN|Q7Z6G3 : USER001

355 - 361 KAFRHVK

>NED4L\_HUMAN|Q9H2W4 : USER001

22 - 28 LRVKVVS

140 - 146 SRVKGFL

867 - 873 SIYKNGY

>NEDD1\_HUMAN|Q8NHV4 : USER001

109 - 115 KRVHRSL

654 - 660 KRLRAHF

>NEDD4\_HUMAN|P46934 : USER001

238 - 244 SRVKGYL

>NEIL1\_HUMAN|Q96FI4 : USER001

254 - 260 AAFRAWL

>NEIL3\_HUMAN|Q8TAT5 : USER001

109 - 115 YKYKNGA

244 - 250 KHYKVYK

>NEK11\_HUMAN|Q8NG66 : USER001

90 - 96 AIVKFHA

>NEK1\_HUMAN|Q96PY6 : USER001

114 - 120 LALKHVH

508 - 514 KRLKAVS

1013 - 1019 FAFRSHS

>NEK3\_HUMAN|P51956 : USER001

333 - 339 SALRRVN

>NEK4\_HUMAN|P51957 : USER001

254 - 260 SILRQPY

736 - 742 FKLHRKY

>NEK5\_HUMAN|Q6P3R8 : USER001

252 - 258 SILKRPF

>NEK8\_HUMAN|Q86SG6 : USER001

114 - 120 LALHHVH

>NEK9\_HUMAN|Q8TD19 : USER001

139 - 145 KILRQKD

426 - 432 KAIRQVS

>NELFA\_HUMAN|Q9H3P2 : USER001

71 - 77 SAVKLLK

>NELFD\_HUMAN|Q9UGN2 : USER001

256 - 262 SAVRRIA

>NELL2\_HUMAN|Q99435 : USER001

127 - 133 LHYRSGS

>NEO1\_HUMAN|Q92859 : USER001

1149 - 1155 HKYKGN

1263 - 1269 HHFHSS

1392 - 1398 HHIHSVK

>NET1L\_HUMAN|Q8WTR8 : USER001

387 - 393 LAVRVLA

>NET1\_HUMAN|O95631 : USER001

526 - 532 SRIRRGD

>NETO1\_HUMAN|Q8TDF5 : USER001

418 - 424 HKLRRSS

>NETR\_HUMAN|P56730 : USER001

648 - 654 LRLKSSH

688 - 694 YAVRVGD

>NEUL1\_HUMAN|O76050 : USER001

81 - 87 KAVKRQA

297 - 303 HALRAGA

>NEUL2\_HUMAN|Q9BR09 : USER001

27 - 33 HRVHGAN

>NEUT\_HUMAN|P30990 : USER001

146 - 152 YILKRQL

>NF1\_HUMAN|P21359 : USER001

47 - 53 SKYKFSL

188 - 194 AKLKRL

199 - 205 FKFKALK

1505 - 1511 LALHRL

1623 - 1629 LIYHVLL

2168 - 2174 SKVKSAA

2730 - 2736 LIVKFLD

>NF2L3\_HUMAN|Q9Y4A8 : USER001

2 - 8 KHLKRWW

299 - 305 AHYHVNF

>NFAC1\_HUMAN|O95644 : USER001

537 - 543 LKLRNSD

>NFAC2\_HUMAN|Q13469 : USER001

519 - 525 LKLRNAD

>NFAC3\_HUMAN|Q12968 : USER001

541 - 547 LKLRNSD

>NFAC4\_HUMAN|Q14934 : USER001

527 - 533 LKLRNSD  
>NFASC\_HUMAN|Q96K50 : USER001  
938 - 944 FRVRQPN  
>NFAT5\_HUMAN|O94916 : USER001  
388 - 394 LKLRNAD  
504 - 510 LIVKVPP  
1307 - 1313 SIFHQQS  
>NFH\_HUMAN|P12036 : USER001  
179 - 185 AHVRQRL  
>NFIL3\_HUMAN|Q16649 : USER001  
122 - 128 LKLKFGFL  
327 - 333 LRIKAKA  
>NFIP2\_HUMAN|Q9NV92 : USER001  
277 - 283 LIVRFSD  
>NFIX\_HUMAN|Q14938 : USER001  
367 - 373 SALHFPS  
>NFKB1\_HUMAN|P19838 : USER001  
550 - 556 AIIHLHS  
>NFKB2\_HUMAN|Q00653 : USER001  
188 - 194 SIVRLRF  
566 - 572 LALRAGA  
606 - 612 LAVRARS  
>NFL\_HUMAN|P07196 : USER001  
133 - 139 SRFRALY  
>NFRKB\_HUMAN|Q6P4R8 : USER001  
684 - 690 SKVKSSS  
>NFS1\_HUMAN|Q9Y697 : USER001  
29 - 35 LRLRVGD  
>NFU1\_HUMAN|Q9UMS0 : USER001  
35 - 41 AAFRSPL  
>NFX1\_HUMAN|Q12986 : USER001  
98 - 104 HHIRVKK  
>NGAP\_HUMAN|Q9UJF2 : USER001  
659 - 665 HKLKSPS  
>NGBR\_HUMAN|Q96E22 : USER001  
186 - 192 LAVKVLS  
279 - 285 SALRQYA  
>NGEF\_HUMAN|Q8N5V2 : USER001  
476 - 482 FKIKSVP  
>NHDC1\_HUMAN|Q4ZJI4 : USER001  
154 - 160 SILRSIA  
503 - 509 SKIKLQL  
>NHEJ1\_HUMAN|Q9H9Q4 : USER001

104 - 110 LILRVRS  
287 - 293 SKVKRKK  
>NHERF\_HUMAN|O14745 : USER001  
77 - 83 SRIRAAAL  
>NHLC1\_HUMAN|Q6VVB1 : USER001  
95 - 101 SALRQSP  
>NHLC2\_HUMAN|Q8NBF2 : USER001  
497 - 503 HKIKVVD  
>NHRF2\_HUMAN|Q15599 : USER001  
48 - 54 AALRAGD  
>NHS\_HUMAN|Q6T4R5 : USER001  
1071 - 1077 SALHNVL  
1481 - 1487 LIYRNAK  
>NIBA\_HUMAN|Q9BZQ8 : USER001  
23 - 29 AAIKNFS  
425 - 431 SRFRRFPH  
>NICN1\_HUMAN|Q9BSH3 : USER001  
116 - 122 LILRQPS  
>NID1\_HUMAN|P14543 : USER001  
6 - 12 SRIRAAW  
>NIF3L\_HUMAN|Q9GZT8 : USER001  
184 - 190 SAVKID  
276 - 282 SHIRLAL  
>NIPA1\_HUMAN|Q7RTP0 : USER001  
136 - 142 LIHSPK  
>NIPBL\_HUMAN|Q6KC79 : USER001  
363 - 369 SRVRSDD  
2118 - 2124 SKLKSQH  
2613 - 2619 SIVKQYL  
>NJMU\_HUMAN|Q9HAS0 : USER001  
189 - 195 SHIKSYL  
>NK2R\_HUMAN|P21452 : USER001  
312 - 318 HRFRSGF  
>NK3R\_HUMAN|P29371 : USER001  
361 - 367 KRFRAGF  
>NKAPL\_HUMAN|Q5M9Q1 : USER001  
221 - 227 KRVKAKK  
>NKD1\_HUMAN|Q969G9 : USER001  
462 - 468 HHYHHFY  
>NKD2\_HUMAN|Q969F2 : USER001  
217 - 223 AHVRRPS  
>NKRF\_HUMAN|O15226 : USER001  
49 - 55 SKFHARP

>NKTR\_HUMAN|P30414 : USER001  
434 - 440 KKVKHKK

>NKX22\_HUMAN|O95096 : USER001  
216 - 222 HALKAQD

>NKX23\_HUMAN|Q8TAU0 : USER001  
38 - 44 HHFHSAP

>NKX24\_HUMAN|Q9H2Z4 : USER001  
46 - 52 AAYRAPP

>NLE1\_HUMAN|Q9NVX2 : USER001  
96 - 102 AIFRVRA

>NLGN2\_HUMAN|Q8NFZ4 : USER001  
771 - 777 LALRRAP

>NLGN3\_HUMAN|Q9NZ94 : USER001  
368 - 374 ARYHVAF

>NLK\_HUMAN|Q9UBE8 : USER001  
363 - 369 HILRGPH

>NLP\_HUMAN|Q9Y2I6 : USER001  
517 - 523 LALKLQK  
648 - 654 AALKRNF  
722 - 728 LALRHHS

>NLRC3\_HUMAN|Q7RTR2 : USER001  
403 - 409 LAFHGGL

>NLRC4\_HUMAN|Q9NPP4 : USER001  
810 - 816 YIVKSLS

>NLRC5\_HUMAN|Q86WI3 : USER001  
170 - 176 HAFHQVY

>NLTP\_HUMAN|P22307 : USER001  
459 - 465 FAFKVKD

>NMB\_HUMAN|P08949 : USER001  
39 - 45 SKIRVHS

>NMD3A\_HUMAN|Q8TCU5 : USER001  
46 - 52 HAVRVGA  
287 - 293 SKFHLGS

>NMDE2\_HUMAN|Q13224 : USER001  
1107 - 1113 LAYRRRP  
1220 - 1226 SKLHNYS

>NMDE3\_HUMAN|Q14957 : USER001  
485 - 491 KRVRGVW

>NMNA2\_HUMAN|Q9BZQ4 : USER001  
295 - 301 YILKSQL

>NMUR1\_HUMAN|Q9HB89 : USER001  
176 - 182 AHVRRVL

>NNAT\_HUMAN|Q16517 : USER001

17 - 23 YIFRVLL

36 - 42 FAFRNPP

>NNTM\_HUMAN|Q13423 : USER001

251 - 257 AIVRGFD

>NOC2L\_HUMAN|Q9Y3T9 : USER001

384 - 390 LAIHLRN

>NOC3L\_HUMAN|Q8WTT2 : USER001

333 - 339 KAYKGLA

589 - 595 FKLHAGA

633 - 639 LALHVLP

694 - 700 HALRRHY

>NOCT\_HUMAN|Q9UK39 : USER001

346 - 352 SAYKLLS

>NOD1\_HUMAN|Q9Y239 : USER001

355 - 361 SHLRAYA

806 - 812 LAVKNSK

>NOD2\_HUMAN|Q9HC29 : USER001

140 - 146 AIVRRLH

717 - 723 KHFSIP

874 - 880 LALRLGN

986 - 992 KILKLSN

>NOE2\_HUMAN|O95897 : USER001

105 - 111 ARLRAAD

291 - 297 YHFRSRS

>NOG1\_HUMAN|Q9BZE4 : USER001

41 - 47 HRIRHFY

>NOG2\_HUMAN|Q13823 : USER001

279 - 285 LAFHASL

>NOGG\_HUMAN|Q13253 : USER001

139 - 145 KKLRRKL

>NOL10\_HUMAN|Q9BSC4 : USER001

471 - 477 KKVKSLP

668 - 674 KRLRRSA

>NOL11\_HUMAN|Q9H8H0 : USER001

590 - 596 AILHSAY

>NOL12\_HUMAN|Q9UGY1 : USER001

174 - 180 KKVKRKH

>NOL5A\_HUMAN|O00567 : USER001

44 - 50 SIVRLVA

>NOL5\_HUMAN|Q9Y2X3 : USER001

12 - 18 AIFKVLN

40 - 46 KIVKCLKH

147 - 153 SRYRLKF



149 - 155 YRLKFSA

340 - 346 LIYHASL

>NOL6\_HUMAN|Q9H675 : USER001

487 - 493 HRLKLWP

577 - 583 AKFRQFW

793 - 799 FRIRVAY

>NOL7\_HUMAN|Q9UMY1 : USER001

156 - 162 KKVKVQK

173 - 179 LAVRLKD

242 - 248 KRFKRRW

>NOL8\_HUMAN|Q7L3E2 : USER001

153 - 159 LHLKNQH

219 - 225 KIIKVQK

>NOM1\_HUMAN|Q5C9Z4 : USER001

40 - 46 KALKRLK

147 - 153 SRVKAKA

363 - 369 KHVKGLL

553 - 559 LALKNND

>NOMO1\_HUMAN|Q15155 : USER001

415 - 421 SIIRFPD

1003 - 1009 FRLRGLL

>NOMO2\_HUMAN|Q5JPE7 : USER001

415 - 421 SIIRFPD

1003 - 1009 FRLRGLL

>NOMO3\_HUMAN|P69849 : USER001

415 - 421 SIIRFPD

1003 - 1009 FRLRGLL

>NOP14\_HUMAN|P78316 : USER001

848 - 854 KALKRKK

>NOS1\_HUMAN|P29475 : USER001

846 - 852 YKVRFNS

>NOS3\_HUMAN|P29474 : USER001

609 - 615 YKIRFNS

>NOSIP\_HUMAN|Q9Y314 : USER001

73 - 79 YILHQKK

>NOTUM\_HUMAN|Q6P988 : USER001

89 - 95 LRLHLLL

>NOV\_HUMAN|P48745 : USER001

272 - 278 KAIHLQF

>NOX1\_HUMAN|Q9Y5S8 : USER001

412 - 418 SILKSIW

>NOX4\_HUMAN|Q9NPH5 : USER001

180 - 186 YAIRVSN

452 - 458 YKLRRLY  
>NOX5\_HUMAN|Q96PH1 : USER001  
412 - 418 LIFHGPN  
>NOXA1\_HUMAN|Q86UR1 : USER001  
56 - 62 AALRAFD  
115 - 121 LRFKLQA  
>NOXIN\_HUMAN|Q8IXT1 : USER001  
55 - 61 YRYKLSL  
323 - 329 SAVHSSH  
890 - 896 AAYHFPD  
>NP1L3\_HUMAN|Q99457 : USER001  
377 - 383 YIIKAKP  
>NPA1P\_HUMAN|O60287 : USER001  
1911 - 1917 LALHLVN  
2148 - 2154 SIFRLYS  
>NPAS1\_HUMAN|Q99742 : USER001  
95 - 101 LRLRRFA  
>NPAS3\_HUMAN|Q8IXF0 : USER001  
292 - 298 LRLRVSL  
874 - 880 HHVHRLN  
>NPAT\_HUMAN|Q14207 : USER001  
366 - 372 LAVKGSF  
>NPC1\_HUMAN|O15118 : USER001  
408 - 414 LIIRAPL  
1074 - 1080 SAYRVFP  
>NPCL1\_HUMAN|Q9UHC9 : USER001  
173 - 179 SRVRVPA  
>NPDC1\_HUMAN|Q9NQX5 : USER001  
27 - 33 AALRGAA  
>NPFF1\_HUMAN|Q9GZQ6 : USER001  
342 - 348 AAFRARL  
>NPFF2\_HUMAN|Q9Y5X5 : USER001  
292 - 298 YRVRLNS  
465 - 471 YALKAKS  
>NPHN\_HUMAN|O60500 : USER001  
801 - 807 LRIHHAK  
>NPHP3\_HUMAN|Q8NCM5 : USER001  
1054 - 1060 FKIHQKA  
>NPHP4\_HUMAN|O75161 : USER001  
150 - 156 KRLRLYH  
1041 - 1047 FHLRGSL  
1146 - 1152 KAIRLPP  
>NPL4\_HUMAN|Q8TAT6 : USER001

67 - 73 LKIKHGD  
120 - 126 KIYRSRD  
>NPL\_HUMAN|Q9BXD5 : USER001  
298 - 304 AKLKSLD  
>NPM3\_HUMAN|O75607 : USER001  
122 - 128 FRLKSGS  
>NPM\_HUMAN|Q96EA5 : USER001  
154 - 160 KKVKLAA  
>NPSR1\_HUMAN|Q6JSL7 : USER001  
268 - 274 AKIKAIK  
>NPT1\_HUMAN|Q14916 : USER001  
255 - 261 AILKSLP  
>NPT2C\_HUMAN|Q8N130 : USER001  
192 - 198 SAVHGIF  
341 - 347 LIVKLLN  
>NPTN\_HUMAN|Q9Y639 : USER001  
215 - 221 LRVRSHL  
>NPTX2\_HUMAN|P47972 : USER001  
217 - 223 SAFKSPD  
>NQO1\_HUMAN|P15559 : USER001  
111 - 117 AILKGWF  
>NR1D2\_HUMAN|Q14995 : USER001  
573 - 579 LAFKVHP  
>NR1H2\_HUMAN|P55055 : USER001  
440 - 446 FALRLQD  
>NR1H3\_HUMAN|Q13133 : USER001  
426 - 432 FALRLQD  
>NR1I3\_HUMAN|Q14994 : USER001  
87 - 93 LALRAK  
>NR2E3\_HUMAN|Q9Y5X4 : USER001  
308 - 314 SRFRALA  
>NR4A1\_HUMAN|P22736 : USER001  
447 - 453 FILRLAY  
451 - 457 LAYRSKP  
>NR4A2\_HUMAN|P43354 : USER001  
451 - 457 LAYRSNP  
>NR6A1\_HUMAN|Q15406 : USER001  
377 - 383 HKFHQLK  
>NRAP\_HUMAN|Q8TCH0 : USER001  
345 - 351 AHYHSLP  
959 - 965 KKYRQHP  
1202 - 1208 SKYRQHP  
>NRCAM\_HUMAN|Q92823 : USER001

1132 - 1138 YKVRVGA

>NRIP2\_HUMAN|Q9BQI9 : USER001

211 - 217 LRLKAPF

>NRIP3\_HUMAN|Q9NQ35 : USER001

74 - 80 SKLRSGP

>NRK\_HUMAN|Q7Z2Y5 : USER001

702 - 708 KRFRKAS

799 - 805 HHVKFSS

1398 - 1404 LKLKVFP

>NRP1\_HUMAN|O14786 : USER001

736 - 742 LRVKLRV

>NRX1A\_HUMAN|Q9UDM6 : USER001

333 - 339 LALKNGA

1180 - 1186 LHIHQGK

1423 - 1429 YKYRNRD

>NRX1B\_HUMAN|P58400 : USER001

57 - 63 HHHHFFH

60 - 66 HHHFGSS

74 - 80 AIYRSPA

145 - 151 LHIHQGK

>NRX2A\_HUMAN|Q9P2S2 : USER001

648 - 654 AALRAGY

1658 - 1664 YKYRNRD

>NRX2B\_HUMAN|P58401 : USER001

61 - 67 HHVHHFH

64 - 70 HHHFSKH

612 - 618 YKYRNRD

>NRX3A\_HUMAN|Q9Y486 : USER001

1590 - 1596 YKYRNRD

>NRX3B\_HUMAN|Q9HDB5 : USER001

57 - 63 HHHFGSK

585 - 591 YKYRNRD

>NS1CL\_HUMAN|Q14CS0 : USER001

210 - 216 LRFKAFS

>NSD1\_HUMAN|Q96L73 : USER001

329 - 335 AKFKRRP

1112 - 1118 SKVKQSD

>NSD2\_HUMAN|Q9UPR2 : USER001

876 - 882 KKLHFQD

992 - 998 KHIKVNK

1104 - 1110 ARIKHAH

>NSD3\_HUMAN|Q9NXA6 : USER001

885 - 891 YAYKSHY

1074 - 1080 KHIKANK

1186 - 1192 LRIKRAH

>NSF\_HUMAN|P46459 : USER001

251 - 257 KHVKGIL

>NSMA3\_HUMAN|Q9NXXE4 : USER001

335 - 341 KHLHAF A

>NSUN3\_HUMAN|Q9H649 : USER001

69 - 75 LHLKGYH

>NSUN7\_HUMAN|Q8NE18 : USER001

164 - 170 FKIKLAA

281 - 287 LAVHSVK

>NT5D2\_HUMAN|Q9H857 : USER001

116 - 122 FAIRGLH

332 - 338 KIYRQGN

>NTCP4\_HUMAN|Q96EP9 : USER001

264 - 270 YIVKVSL

346 - 352 AILKLAF

>NTCP\_HUMAN|Q14973 : USER001

49 - 55 SKIKAHL

>NTKL\_HUMAN|Q96KG9 : USER001

63 - 69 AAFKRFK

528 - 534 KAIRSFL

>NTRK1\_HUMAN|P04629 : USER001

503 - 509 HHIKRRD

>NTRK2\_HUMAN|Q16620 : USER001

133 - 139 KHFRHLD

>NU153\_HUMAN|P49790 : USER001

271 - 277 AAVRQSK

>NU155\_HUMAN|O75694 : USER001

406 - 412 SKVHRAL

>NU160\_HUMAN|Q12769 : USER001

308 - 314 HKLRLAY

512 - 518 LALHLNP

1054 - 1060 HIYRHNY

>NU188\_HUMAN|Q5SRE5 : USER001

171 - 177 SKYRQQF

>NU205\_HUMAN|Q92621 : USER001

335 - 341 LALRGIS

1987 - 1993 SKVRSRY

>NU214\_HUMAN|P35658 : USER001

581 - 587 SAVKVNL

>NU5M\_HUMAN|P03915 : USER001

189 - 195 FILHSNS

345 - 351 SIIHNLN

>NUA4L\_HUMAN|Q9NRX3 : USER001

41 - 47 LALRSPD

>NUAK1\_HUMAN|O60285 : USER001

626 - 632 KRYRNRL

>NUCKS\_HUMAN|Q9H1E3 : USER001

35 - 41 KKIRSSP

>NUD15\_HUMAN|Q9NV35 : USER001

68 - 74 AALHLKN

70 - 76 LHLKNVH

>NUD17\_HUMAN|P0C025 : USER001

284 - 290 FALKLWL

>NUDC1\_HUMAN|Q96RS6 : USER001

9 - 15 LRVKRPL

518 - 524 FIYRQPA

>NUDC\_HUMAN|Q9Y266 : USER001

191 - 197 FRLKGKD

>NUDT5\_HUMAN|Q9UKK9 : USER001

202 - 208 LALKHAN

>NUDT8\_HUMAN|Q8WV74 : USER001

23 - 29 ARLRARP

>NUMB\_HUMAN|Q9UKF0 : USER001

82 - 88 KAVKAVL

371 - 377 SAFHVLA

>NUP50\_HUMAN|Q9UKX7 : USER001

170 - 176 WIVKHAVN

>NUP88\_HUMAN|Q99567 : USER001

373 - 379 LALKLAS

531 - 537 KHIRSIL

>NUP93\_HUMAN|Q8N1F7 : USER001

373 - 379 LHYRRAL

488 - 494 HAVHVAL

732 - 738 AAFRNFS

>NUP98\_HUMAN|Q9Y6J4 : USER001

695 - 701 AALRNGL

1428 - 1434 LAIHLWY

1649 - 1655 LIIRHLA

>NUPL1\_HUMAN|Q9BVL2 : USER001

288 - 294 KALKQLL

>NUPL\_HUMAN|P52594 : USER001

63 - 69 HRVKSIS

>NWD1\_HUMAN|Q149M9 : USER001

814 - 820 ARLHFFA

>NXF1\_HUMAN|Q9UBU9 : USER001  
170 - 176 SALKAVN  
450 - 456 LRFLLK

>NXF3\_HUMAN|Q9H4D5 : USER001  
164 - 170 YALKNVS

>NXP20\_HUMAN|Q8IWE2 : USER001  
160 - 166 LRIHGVN

>NYX\_HUMAN|Q9GZU5 : USER001  
135 - 141 SRLRRLD

>O10G7\_HUMAN|Q8NGN6 : USER001  
299 - 305 LKLKNGS

>O10H1\_HUMAN|Q9Y4A9 : USER001  
162 - 168 AIFHLAF

>O10H5\_HUMAN|Q8NGA6 : USER001  
162 - 168 AIFHLAF

>O10J5\_HUMAN|Q8NHC4 : USER001  
85 - 91 LIFHNQP

>O10V1\_HUMAN|Q8NGI7 : USER001  
163 - 169 LIFHLPF

>O10W1\_HUMAN|Q8NGF6 : USER001  
217 - 223 LKIHSAA

>O11A1\_HUMAN|Q9GZK7 : USER001  
264 - 270 SAVHSQL

>O11H4\_HUMAN|Q8NGC9 : USER001  
309 - 315 LALRNVL

>O11H7\_HUMAN|Q8NGC8 : USER001  
299 - 305 YALHHVF

>O13C8\_HUMAN|Q8NGS7 : USER001  
305 - 311 AAVKNIL

>O2A12\_HUMAN|Q8NGT7 : USER001  
161 - 167 LILRLPF

>O2A14\_HUMAN|Q96R47 : USER001  
161 - 167 LILRLPF

>O2A42\_HUMAN|Q8NGT9 : USER001  
161 - 167 LILRLPF

>O2AE1\_HUMAN|Q8NHA4 : USER001  
298 - 304 KALRRVL

>O2T34\_HUMAN|Q8NGX1 : USER001  
225 - 231 LILHLIH

>O4F17\_HUMAN|Q8NGA8 : USER001  
155 - 161 FAVHLPF

>O51A2\_HUMAN|Q8NGJ7 : USER001  
126 - 132 LAIHNPL

>O51A4\_HUMAN|Q8NGJ6 : USER001  
126 - 132 LAIHNPL

>O51A7\_HUMAN|Q8NH64 : USER001  
124 - 130 LAIHNPL  
148 - 154 LAIRSIL

>O51B2\_HUMAN|Q9Y5P1 : USER001  
258 - 264 FIYRFGK

>O51B4\_HUMAN|Q9Y5P0 : USER001  
299 - 305 SIIRLFS

>O51D1\_HUMAN|Q8NGF3 : USER001  
246 - 252 AALKAFN

>O51E1\_HUMAN|Q8TCB6 : USER001  
104 - 110 FAIHSLS

>O51F1\_HUMAN|A6NGY5 : USER001  
229 - 235 LIHSVL

>O51F2\_HUMAN|Q8NH61 : USER001  
222 - 228 LIIRSVL

>O51L1\_HUMAN|Q8NGJ5 : USER001  
14 - 20 FILRGFP

>O51Q1\_HUMAN|Q8NH59 : USER001  
222 - 228 LILKNIL

>O51V1\_HUMAN|Q9H2C8 : USER001  
229 - 235 LILKSVL

>O52A1\_HUMAN|Q9UKL2 : USER001  
186 - 192 AIVKLAA  
236 - 242 ARFKAFN

>O52A4\_HUMAN|A6NMU1 : USER001  
238 - 244 ARLKVFN

>O52A5\_HUMAN|Q9H2C5 : USER001  
236 - 242 ARFKAFN  
305 - 311 HIVKVFF

>O52B2\_HUMAN|Q96RD2 : USER001  
222 - 228 LILRAVF

>O52B4\_HUMAN|Q8NGK2 : USER001  
222 - 228 LILHAVF

>O52D1\_HUMAN|Q9H346 : USER001  
223 - 229 FILHAVF

>O52E1\_HUMAN|Q8NGJ3 : USER001  
161 - 167 FILRLPF  
231 - 237 ARLKAFS

>O52E2\_HUMAN|Q8NGJ4 : USER001  
164 - 170 LILRLPF  
234 - 240 ARLKSLS



>O52E4\_HUMAN|Q8NGH9 : USER001  
164 - 170 LILRLPF  
221 - 227 LILRAVF

>O52E5\_HUMAN|Q8NH55 : USER001  
232 - 238 ARLKALS

>O52E6\_HUMAN|Q96RD3 : USER001  
234 - 240 ARLKALN

>O52E8\_HUMAN|Q6IFG1 : USER001  
234 - 240 ARLKALN

>O52I1\_HUMAN|Q8NGK6 : USER001  
134 - 140 LHYKRIL  
224 - 230 LILRAVF

>O52I2\_HUMAN|Q8NH67 : USER001  
134 - 140 LHYKRIL  
224 - 230 LILKAVF

>O52J3\_HUMAN|Q8NH60 : USER001  
164 - 170 LIYRLPF  
221 - 227 YILRAVF

>O52L1\_HUMAN|Q8NGH7 : USER001  
236 - 242 ARLKAFS  
273 - 279 HHVHVLL

>O52L2\_HUMAN|Q8NGH6 : USER001  
236 - 242 ARLKAFS  
273 - 279 HHVHVLL

>O52R1\_HUMAN|Q8NGF1 : USER001  
236 - 242 ARLKAFS

>O52W1\_HUMAN|Q6IF63 : USER001  
153 - 159 LALKAVA

>O52Z1\_HUMAN|P0C646 : USER001  
216 - 222 ARFKALS

>O56A1\_HUMAN|Q8NGH5 : USER001  
223 - 229 FILRAVL  
236 - 242 AAVKALS

>O56A3\_HUMAN|Q8NH54 : USER001  
224 - 230 FILRAVL

>O56A4\_HUMAN|Q8NGH8 : USER001  
223 - 229 FILKVVL

>O56B4\_HUMAN|Q8NH76 : USER001  
301 - 307 HKLRLGF

>O5AC1\_HUMAN|P0C628 : USER001  
156 - 162 SAIHVGL

>O5AT1\_HUMAN|Q8NHC5 : USER001  
292 - 298 KAIKVAL

>O5AY1\_HUMAN|Q8NGZ2 : USER001  
22 - 28 LRLHALL

>OAF\_HUMAN|Q86UD1 : USER001  
32 - 38 LRVRVRL  
118 - 124 AKLRQKN

>OAZ2\_HUMAN|O95190 : USER001  
77 - 83 HIVHFQY

>OBFC1\_HUMAN|Q9H668 : USER001  
261 - 267 KAIHSIF

>OBRG\_HUMAN|O15243 : USER001  
39 - 45 LIFHAIS

>OBSCN\_HUMAN|Q96AA2 : USER001  
824 - 830 AHVHVHW  
2257 - 2263 LIYRRVL  
2727 - 2733 ARVRVHD  
3176 - 3182 SIVRVHA  
4441 - 4447 AAVRAGA  
4592 - 4598 YRFRVAA  
4881 - 4887 AAFKGYK  
5282 - 5288 LKVKGYP  
5989 - 5995 AIIKSSW

>OBSL1\_HUMAN|O75147 : USER001  
397 - 403 LIIHRLK  
681 - 687 LILHAVK  
684 - 690 HAVKHQD

>OCTC\_HUMAN|Q9UKG9 : USER001  
429 - 435 YRLHGHP

>ODBA\_HUMAN|P12694 : USER001  
343 - 349 SAYRSVD  
362 - 368 SRLRHYL

>ODBB\_HUMAN|P21953 : USER001  
167 - 173 YRYRSGD

>ODFP2\_HUMAN|Q5BJF6 : USER001  
404 - 410 KAIRAQK

>ODO1\_HUMAN|Q02218 : USER001  
579 - 585 LHIKHWL

>ODP2\_HUMAN|P10515 : USER001  
446 - 452 FIIKASA

>ODPAT\_HUMAN|P29803 : USER001  
285 - 291 YRYHGHS

>ODPA\_HUMAN|P08559 : USER001  
287 - 293 YRYHGHS

>ODPX\_HUMAN|O00330 : USER001

180 - 186 LRFRLSP

331 - 337 FIIKAAA

>OFD1\_HUMAN|O75665 : USER001

647 - 653 KAFRSYH

>OGDHL\_HUMAN|Q9ULD0 : USER001

566 - 572 LHIKHWL

>OGFD1\_HUMAN|Q8N543 : USER001

363 - 369 LKLHFLA

>OGFD2\_HUMAN|Q6N063 : USER001

310 - 316 SAVRNSL

>OGRL1\_HUMAN|Q5TC84 : USER001

100 - 106 YKYRHQY

354 - 360 SAVHLNS

>OGT1\_HUMAN|O15294 : USER001

80 - 86 LAIKQNP

114 - 120 HALRLKP

>OIP5\_HUMAN|O43482 : USER001

156 - 162 AALRGHF

>OLA1\_HUMAN|Q9NTK5 : USER001

294 - 300 KIIKAGF

>OLFL1\_HUMAN|Q6UWY5 : USER001

280 - 286 WAIHSGP

>OLFL3\_HUMAN|Q9NRN5 : USER001

199 - 205 SRVRVPF

>OM34\_HUMAN|Q15785 : USER001

140 - 146 WRLKLPS

>ONEC2\_HUMAN|O95948 : USER001

385 - 391 SALRLAA

>ONEC3\_HUMAN|O60422 : USER001

392 - 398 SALRLAA

>OPA1\_HUMAN|O60313 : USER001

2 - 8 WRLRRAA

39 - 45 SIYHSHH

>OPHN1\_HUMAN|O60890 : USER001

704 - 710 FHIKRPA

>OPN5\_HUMAN|Q6U736 : USER001

224 - 230 AKVKSSS

238 - 244 SRIHSSH

>OPSB\_HUMAN|P03999 : USER001

63 - 69 KCLRQPL

>OPSG\_HUMAN|P04001 : USER001

82 - 88 KCLRHPL

244 - 250 LAIRAVA

>OPSR\_HUMAN|P04000 : USER001  
82 - 88 KKL RHPL  
244 - 250 LAIRAVA

>OPTN\_HUMAN|Q9UEV4 : USER001  
212 - 218 SKYRSRS

>OR1B1\_HUMAN|Q8NGR6 : USER001  
230 - 236 AILRLPS

>OR1D2\_HUMAN|P34982 : USER001  
220 - 226 LIIRAIL  
233 - 239 KKYKAFS

>OR1D5\_HUMAN|P58170 : USER001  
287 - 293 FIYRLRN  
289 - 295 YRLRNKD

>OR1E1\_HUMAN|P30953 : USER001  
224 - 230 SILKVPS

>OR1E2\_HUMAN|P47887 : USER001  
233 - 239 SILKVPS

>OR1K1\_HUMAN|Q8NGR3 : USER001  
153 - 159 SHVHSSL

>OR1L4\_HUMAN|Q8NGR5 : USER001  
153 - 159 SHLHSLF  
173 - 179 HIIKHFF

>OR1L6\_HUMAN|Q8NGR2 : USER001  
153 - 159 SHLHSLF  
173 - 179 HIIKHFF

>OR1L8\_HUMAN|Q8NGR8 : USER001  
48 - 54 LAIRFNP

>OR1P1\_HUMAN|Q8NH06 : USER001  
176 - 182 LIFRLSL  
237 - 243 AILRAPS

>OR2A5\_HUMAN|Q96R48 : USER001  
162 - 168 LILRLPF

>OR2B6\_HUMAN|P58173 : USER001  
220 - 226 FIVRAVL

>OR2G6\_HUMAN|Q5TZ20 : USER001  
226 - 232 LRIKSAA

>OR2I1\_HUMAN|Q8NGU4 : USER001  
296 - 302 KKVKGAA

>OR2J1\_HUMAN|Q9GZK6 : USER001  
157 - 163 SALHSSF

>OR2J2\_HUMAN|O76002 : USER001  
157 - 163 SALHSSF  
296 - 302 KHVKGAA

>OR2J3\_HUMAN|O76001 : USER001  
159 - 165 SALHSSF  
223 - 229 AIVRAVL

>OR2S1\_HUMAN|Q9NQN1 : USER001  
306 - 312 AAVRLL

>OR2T3\_HUMAN|Q8NH03 : USER001  
225 - 231 LILHLIH

>OR2W3\_HUMAN|Q7Z3T1 : USER001  
220 - 226 YIVRAVL

>OR4CB\_HUMAN|Q6IEV9 : USER001  
160 - 166 LALRLPF

>OR4E1\_HUMAN|P0C645 : USER001  
16 - 22 FRLRGLS

>OR4F4\_HUMAN|Q96R69 : USER001  
155 - 161 FAVHLPF

>OR4F5\_HUMAN|Q8NH21 : USER001  
155 - 161 FAVHLLF

>OR4K1\_HUMAN|Q8NGD4 : USER001  
299 - 305 WKLRNRH

>OR4K3\_HUMAN|Q96R72 : USER001  
12 - 18 FILRGLS  
304 - 310 HIFKSRK

>OR4KE\_HUMAN|Q8NGD5 : USER001  
224 - 230 LAIRQRA

>OR4KF\_HUMAN|Q8NH41 : USER001  
299 - 305 SKLKSRV

>OR4M1\_HUMAN|Q8NGD0 : USER001  
162 - 168 LIVRLPF

>OR4M2\_HUMAN|Q8NGB6 : USER001  
162 - 168 LIVRLPF

>OR4N2\_HUMAN|Q8NGD1 : USER001  
162 - 168 LILRLPF

>OR4N4\_HUMAN|Q8N0Y3 : USER001  
162 - 168 LILRLPF

>OR4N5\_HUMAN|Q8IXE1 : USER001  
162 - 168 LILHLPF

>OR4S1\_HUMAN|Q8NGB4 : USER001  
300 - 306 FRVKRSL

>OR4X2\_HUMAN|Q8NGF9 : USER001  
154 - 160 LIFHLLF

>OR5A1\_HUMAN|Q8NGJ0 : USER001  
165 - 171 SIFRLHF

>OR5BL\_HUMAN|A6NL26 : USER001

81 - 87 AALRSGD

>OR5DE\_HUMAN|Q8NGL3 : USER001

164 - 170 YALRLNF

228 - 234 LKIRSVS

>OR5DG\_HUMAN|Q8NGK9 : USER001

164 - 170 SALKLSF

312 - 318 FHIKHRH

>OR5H1\_HUMAN|A6NKK0 : USER001

307 - 313 KHVKVSY

>OR5I1\_HUMAN|Q13606 : USER001

228 - 234 LKIRSFS

>OR5J2\_HUMAN|Q8NH18 : USER001

226 - 232 LRIHSAS

>OR5T2\_HUMAN|Q8NGG2 : USER001

2 - 8 HIFKFVL

>OR6F1\_HUMAN|Q8NGZ6 : USER001

272 - 278 KAVHVLN

>OR6Q1\_HUMAN|Q8NGQ2 : USER001

230 - 236 LHIRSAA

>OR7G1\_HUMAN|Q8NGA0 : USER001

321 - 327 SRVHAIL

>OR8BC\_HUMAN|Q8NGG6 : USER001

223 - 229 SILHNSS

>OR8D4\_HUMAN|Q8NGM9 : USER001

226 - 232 LRIHKKK

>OR8H2\_HUMAN|Q8N162 : USER001

164 - 170 SRLHFYD

>OR8S1\_HUMAN|Q8NH09 : USER001

124 - 130 AAIRRPL

172 - 178 KIIHHYS

349 - 355 SALRAAP

>OR9G4\_HUMAN|Q8NGQ1 : USER001

226 - 232 LRIHSAS

>OR9I1\_HUMAN|Q8NGQ6 : USER001

124 - 130 AAIRNPL

>ORAI2\_HUMAN|Q96SN7 : USER001

58 - 64 AKLKASS

238 - 244 HKLKVQL

>ORAI3\_HUMAN|Q9BRQ5 : USER001

59 - 65 AKLKASS

>ORC1\_HUMAN|Q13415 : USER001

377 - 383 HRIRRKS

493 - 499 LRLHVSA

692 - 698 SRLKHLK

>ORC4\_HUMAN|O43929 : USER001

204 - 210 KRVKSRF

>ORN\_HUMAN|Q9Y3B8 : USER001

81 - 87 LIIKQPD

>OS9\_HUMAN|Q13438 : USER001

65 - 71 SKYKQRY

165 - 171 HRLKRYH

>OSB10\_HUMAN|Q9BXB5 : USER001

149 - 155 FKLRAAD

524 - 530 YKLRFVA

>OSBL1\_HUMAN|Q9BXW6 : USER001

183 - 189 AAYRAHK

>OSBL3\_HUMAN|Q8NFH1 : USER001

124 - 130 YHLKVKS

745 - 751 KAVHRLF

>OSBL5\_HUMAN|Q9H0X9 : USER001

199 - 205 WAVKGPK

221 - 227 LIFRAAS

483 - 489 SAFHVSN

>OSBL6\_HUMAN|Q9BZF3 : USER001

159 - 165 YHLKVKS

161 - 167 LKVKSQD

421 - 427 ARLRQSL

>OSBL7\_HUMAN|Q9BZF2 : USER001

122 - 128 LKIKSQD

>OSBL8\_HUMAN|Q9BZF1 : USER001

221 - 227 WAVKGPK

741 - 747 WHYKFAD

>OSBP1\_HUMAN|P22059 : USER001

159 - 165 YHLKASS

547 - 553 SKFRGKY

>OSBP2\_HUMAN|Q969R2 : USER001

252 - 258 YHLKASS

651 - 657 SKFRGKY

>OSGI2\_HUMAN|Q9Y236 : USER001

340 - 346 LIFKQLP

402 - 408 KIFKLSA

>OSR1\_HUMAN|Q8TAX0 : USER001

45 - 51 SALHAVH

210 - 216 KAFRRQD

>OSR2\_HUMAN|Q8N2R0 : USER001

207 - 213 KAFRRQD

>OST6\_HUMAN|Q96QI5 : USER001  
207 - 213 LAFRHGL

>OSTP\_HUMAN|P10451 : USER001  
172 - 178 KKFRRPD

>OTC\_HUMAN|P00480 : USER001  
12 - 18 AAFRNGH

>OTGLL\_HUMAN|Q3ZCN5 : USER001  
1206 - 1212 SAFHRA

>OTOAN\_HUMAN|Q7RTW8 : USER001  
739 - 745 AAVRLKL

>OTOF\_HUMAN|Q9HC10 : USER001  
208 - 214 LAIRLGD  
1884 - 1890 KRVKGWW

>OTUB2\_HUMAN|Q96DC9 : USER001  
93 - 99 HKFRNFF

>OVCA2\_HUMAN|Q8WZ82 : USER001  
31 - 37 KALRGRA

>OVCH1\_HUMAN|Q7RTY7 : USER001  
147 - 153 HKVKFGN  
465 - 471 FAVKFSP

>OVCH2\_HUMAN|Q7RTZ1 : USER001  
399 - 405 LRLKFVS

>OVL2L\_HUMAN|O00110 : USER001  
141 - 147 AKVHGQP

>OVOS1\_HUMAN|Q6IE37 : USER001  
900 - 906 HALRNAL

>OXA1L\_HUMAN|Q15070 : USER001  
167 - 173 ARIHNHL

>OXDA\_HUMAN|P14920 : USER001  
77 - 83 SHVHSPN

>OXND1\_HUMAN|Q96HP4 : USER001  
186 - 192 SILRHAA

>OXSM\_HUMAN|Q9NWU1 : USER001  
196 - 202 YKLKGPN  
361 - 367 KAIKHLF

>OXSR1\_HUMAN|O95747 : USER001  
316 - 322 KKVRRVP  
438 - 444 LRLRNSK

>OZF\_HUMAN|Q15072 : USER001  
282 - 288 HHIRHQQ

>P20D1\_HUMAN|Q6GTS8 : USER001  
461 - 467 KRIHGVN

>P210L\_HUMAN|Q5VU65 : USER001



19 - 25 LRLHRL  
420 - 426 HIVKALK  
856 - 862 LKVHQIK  
976 - 982 AHLRVSD  
>P2R3B\_HUMAN|Q9Y5P8 : USER001  
539 - 545 SALRSPL  
>P2R3C\_HUMAN|Q969Q6 : USER001  
348 - 354 YIFKLLD  
>P2RY1\_HUMAN|P47900 : USER001  
129 - 135 FIFHVNL  
>P2RY4\_HUMAN|P51582 : USER001  
60 - 66 FIFRLRP  
>P2RY6\_HUMAN|Q15077 : USER001  
306 - 312 KKFRRRP  
>P2Y11\_HUMAN|Q96G91 : USER001  
200 - 206 AAYRAYS  
>P2Y14\_HUMAN|Q15391 : USER001  
212 - 218 KIFKSHL  
323 - 329 SRIKRGN  
>P3C2A\_HUMAN|O00443 : USER001  
656 - 662 LRLHANS  
>P3C2G\_HUMAN|O75747 : USER001  
977 - 983 AKIHRHS  
1010 - 1016 KALRNFF  
1242 - 1248 SKLHSQL  
>P3H2\_HUMAN|Q8IVL5 : USER001  
513 - 519 KALKSGY  
>P3H3\_HUMAN|Q8IVL6 : USER001  
117 - 123 AALRRAD  
139 - 145 ARLRVGS  
>P4HA2\_HUMAN|O15460 : USER001  
56 - 62 SKIKSWA  
>P4K2B\_HUMAN|Q8TCG2 : USER001  
45 - 51 SAVRLLD  
>P52K\_HUMAN|O43422 : USER001  
702 - 708 KRLKAYL  
>P53\_HUMAN|Q9NP68 : USER001  
367 - 373 SHLKSKK  
>P5CR1\_HUMAN|P32322 : USER001  
201 - 207 LAVRLGA  
>P5CS\_HUMAN|P54886 : USER001  
310 - 316 AKVKAAL  
>P66A\_HUMAN|Q86YP4 : USER001

456 - 462 SRLKAAF  
>P73\_HUMAN|Q9NTK8 : USER001  
516 - 522 SIYHLQN  
>P80C\_HUMAN|P38432 : USER001  
294 - 300 LAIKLGF  
>PA24A\_HUMAN|P47712 : USER001  
543 - 549 KKIHVVD  
>PA24B\_HUMAN|O95712 : USER001  
297 - 303 FRIHRQL  
483 - 489 LAVRLGF  
508 - 514 AALRQAL  
>PA24C\_HUMAN|Q9UP65 : USER001  
379 - 385 KHLHLVD  
>PA24D\_HUMAN|Q86XP0 : USER001  
205 - 211 SAFRFHY  
278 - 284 LAVHLGF  
303 - 309 KALKQAL  
>PA24E\_HUMAN|Q3MJ16 : USER001  
110 - 116 SRVKNVL  
324 - 330 KALKQVL  
691 - 697 LIIHLNY  
>PA2G3\_HUMAN|Q9NZ20 : USER001  
405 - 411 LRLHSPP  
>PA2G4\_HUMAN|Q9UQ80 : USER001  
152 - 158 AALRLVK  
>PA2G5\_HUMAN|P39877 : USER001  
86 - 92 YKYRFAW  
>PA2G6\_HUMAN|O60733 : USER001  
527 - 533 AILHSKS  
>PA2GD\_HUMAN|Q9UNK4 : USER001  
128 - 134 KRLRFYW  
>PACS1\_HUMAN|Q9ULP5 : USER001  
339 - 345 KRFKVSD  
>PACS2\_HUMAN|Q86VP3 : USER001  
872 - 878 SHVKHFP  
>PADI1\_HUMAN|Q9ULC6 : USER001  
90 - 96 FKVRVSY  
>PADI6\_HUMAN|Q6TGC4 : USER001  
5 - 11 SIIHLSL  
196 - 202 KKYRLVL  
>PAI1\_HUMAN|P05121 : USER001  
22 - 28 SAVHHPP  
>PAK3\_HUMAN|Q9P0J8 : USER001

46 - 52 ARLRSIF

>PALD\_HUMAN|Q9ULE6 : USER001

264 - 270 YRYHRLP

>PALLD\_HUMAN|Q9Y3E9 : USER001

181 - 187 SIFKAAK

263 - 269 SALHFPA

374 - 380 LAFKSRA

>PAMCI\_HUMAN|O75901 : USER001

330 - 336 LKIHSHL

>PANK3\_HUMAN|Q9H999 : USER001

197 - 203 LAVHSDK

>PANK4\_HUMAN|Q9NVE7 : USER001

59 - 65 AKVRSFD

89 - 95 ARLHFIK

311 - 317 ARLHSLD

>PANX2\_HUMAN|Q96RD6 : USER001

579 - 585 FHVRSP

>PANX3\_HUMAN|Q96QZ0 : USER001

162 - 168 LKIRQKS

>PAPD1\_HUMAN|Q9NVV4 : USER001

161 - 167 SRVRSSN

>PAPL\_HUMAN|Q6ZNF0 : USER001

121 - 127 FRFRALK

>PAPOG\_HUMAN|Q9BWT3 : USER001

187 - 193 SRLRSLD

>PAPS1\_HUMAN|O43252 : USER001

9 - 15 KKVKLSN

>PAQR9\_HUMAN|Q6ZVX9 : USER001

147 - 153 LRLRAAF

>PAR10\_HUMAN|Q53GL7 : USER001

658 - 664 LALHRSL

677 - 683 AALRQAL

>PAR12\_HUMAN|Q9H0J9 : USER001

291 - 297 HRVHFHL

>PAR14\_HUMAN|Q460N5 : USER001

315 - 321 SKYKVNP

830 - 836 YKYRSIA

1435 - 1441 KRVRLAK

>PAR16\_HUMAN|Q8N5Y8 : USER001

161 - 167 SIIHNGL

>PAR2\_HUMAN|P55085 : USER001

134 - 140 YHIHGNN

>PAR3L\_HUMAN|Q8TEW8 : USER001

531 - 537 SIIHGGA

718 - 724 SKVHSLA

>PAR3\_HUMAN|O00254 : USER001

76 - 82 SHLHVKN

321 - 327 LIIHHAN

>PARC\_HUMAN|Q8IWT3 : USER001

1524 - 1530 LALRSGF

>PARD3\_HUMAN|Q9BY58 : USER001

138 - 144 LHVRRSS

>PARG\_HUMAN|Q86W56 : USER001

827 - 833 LHFRRYL

>PARM1\_HUMAN|Q6UWI2 : USER001

280 - 286 LKIRHSS

>PARP1\_HUMAN|P09874 : USER001

236 - 242 KALKAQN

346 - 352 KKLKVKK

1003 - 1009 LKLKFNF

>PARP4\_HUMAN|Q9UUKK3 : USER001

1158 - 1164 LIIKLSK

>PARP6\_HUMAN|Q2NL67 : USER001

96 - 102 LRLRFSL

168 - 174 KKFRAGL

428 - 434 HIVKLPL

470 - 476 FAFHGSH

482 - 488 SILRNGL

>PARP8\_HUMAN|Q8N3A8 : USER001

274 - 280 KKVKSPL

694 - 700 FAFHGSH

706 - 712 SILRNGL

>PARP9\_HUMAN|Q8IXQ6 : USER001

286 - 292 AAFKAAS

390 - 396 YIYHVLW

>PARPT\_HUMAN|Q7Z3E1 : USER001

388 - 394 YILHNSF

>PARVG\_HUMAN|Q9HBI0 : USER001

76 - 82 LILHHLF

>PASK\_HUMAN|Q96RG2 : USER001

313 - 319 LKLKSQP

>PATZ1\_HUMAN|Q9HBE1 : USER001

390 - 396 LRFKRKD

400 - 406 YHVRSHD

>PAX7\_HUMAN|P23759 : USER001

160 - 166 LRIKFGK

>PB1\_HUMAN|Q86U86 : USER001  
468 - 474 AIYKRVL  
1269 - 1275 KKFKGLK  
>PBX1\_HUMAN|P40424 : USER001  
202 - 208 SIIHRKF  
>PBX2\_HUMAN|P40425 : USER001  
213 - 219 SIIHRKF  
>PC11X\_HUMAN|Q9BZA6 : USER001  
282 - 288 AKIHFSF  
432 - 438 YAIKLLA  
1217 - 1223 SALHHSP  
>PC11Y\_HUMAN|Q70LS5 : USER001  
314 - 320 AKIHFSF  
464 - 470 YAIKLLA  
1210 - 1216 SALHHSP  
>PCBP1\_HUMAN|Q15365 : USER001  
67 - 73 AIFKAFA  
>PCBP2\_HUMAN|Q15366 : USER001  
67 - 73 AIFKAFA  
>PCBP3\_HUMAN|P57721 : USER001  
67 - 73 AIFKAFA  
>PCCB\_HUMAN|P05166 : USER001  
3 - 9 AALRVAA  
>PCD10\_HUMAN|Q9P2E7 : USER001  
403 - 409 FRLKSSF  
526 - 532 YALRSFD  
>PCD15\_HUMAN|Q96QU1 : USER001  
805 - 811 LAIKVLD  
>PCD16\_HUMAN|Q96JQ0 : USER001  
705 - 711 LRLRAHD  
878 - 884 ARVRVLL  
1563 - 1569 AALHVVA  
>PCD17\_HUMAN|O14917 : USER001  
535 - 541 YALRSFN  
679 - 685 LIIRSVS  
>PCD19\_HUMAN|Q8TAB3 : USER001  
59 - 65 SAFRVVS  
516 - 522 YALRSFN  
847 - 853 HIYHHSF  
1069 - 1075 LHLKSSL  
>PCD20\_HUMAN|Q8N6Y1 : USER001  
388 - 394 SIIKVIF  
>PCD21\_HUMAN|Q96JP9 : USER001

155 - 161 FKVHAVD

>PCDA1\_HUMAN|Q9Y5I3 : USER001

592 - 598 AKVRAVD

>PCDA2\_HUMAN|Q9Y5H9 : USER001

592 - 598 AKVRAVD

>PCDA3\_HUMAN|Q9Y5H8 : USER001

592 - 598 AKVRAVD

>PCDA4\_HUMAN|Q9UN74 : USER001

592 - 598 AKVRAVD

>PCDA5\_HUMAN|Q9Y5H7 : USER001

167 - 173 LRYRLNP

591 - 597 AKVRAVD

>PCDA6\_HUMAN|Q9UN73 : USER001

592 - 598 AKVRAVD

>PCDA7\_HUMAN|Q9UN72 : USER001

592 - 598 AKVRAVD

>PCDA8\_HUMAN|Q9Y5H6 : USER001

592 - 598 AKVRAVD

>PCDAA\_HUMAN|Q9Y5I2 : USER001

591 - 597 AKVRAVD

>PCDAB\_HUMAN|Q9Y5I1 : USER001

591 - 597 AKVRAVD

>PCDAC\_HUMAN|Q9UN75 : USER001

592 - 598 AKVRAVD

>PCDAD\_HUMAN|Q9Y5I0 : USER001

592 - 598 AKVRAVD

>PCDB2\_HUMAN|Q9Y5E7 : USER001

178 - 184 FHFHLNL

>PCDB3\_HUMAN|Q9Y5E6 : USER001

514 - 520 FALRSLD

>PCDB4\_HUMAN|Q9Y5E5 : USER001

513 - 519 FALRSLD

>PCDB5\_HUMAN|Q9Y5E4 : USER001

513 - 519 FALRSLD

786 - 792 AAFRNSF

>PCDB6\_HUMAN|Q9Y5E3 : USER001

512 - 518 FALRSLD

>PCDB7\_HUMAN|Q9Y5E2 : USER001

301 - 307 LHLKAQL

514 - 520 FALRSLD

>PCDB8\_HUMAN|Q9UN66 : USER001

515 - 521 FALRSLD

>PCDB9\_HUMAN|Q9Y5E1 : USER001

260 - 266 LIVKVSA

514 - 520 FALRSLD

>PCDBA\_HUMAN|Q9UN67 : USER001

260 - 266 LIVKVWA

514 - 520 FALRSLD

>PCDBB\_HUMAN|Q9Y5F2 : USER001

514 - 520 FALRSLD

>PCDBC\_HUMAN|Q9Y5F1 : USER001

514 - 520 FALRSLD

>PCDBD\_HUMAN|Q9Y5F0 : USER001

468 - 474 LHIRSVS

514 - 520 FALRSLD

>PCDBE\_HUMAN|Q9Y5E9 : USER001

514 - 520 FALRSLD

>PCDBG\_HUMAN|Q9NRJ7 : USER001

514 - 520 FALRSLD

>PCDC1\_HUMAN|Q9H158 : USER001

282 - 288 HRFHVHP

>PCDG1\_HUMAN|Q9Y5H4 : USER001

515 - 521 YALRSFD

714 - 720 HRLRRWH

>PCDG2\_HUMAN|Q9Y5H1 : USER001

515 - 521 YALRSFD

714 - 720 HRLRRWH

>PCDG3\_HUMAN|Q9Y5H0 : USER001

302 - 308 SILKSLD

515 - 521 YALRSFD

714 - 720 LRLRRWH

>PCDG4\_HUMAN|Q9Y5G9 : USER001

714 - 720 LKLRRWH

>PCDG5\_HUMAN|Q9Y5G8 : USER001

515 - 521 YALRSFD

714 - 720 LRLRRWH

>PCDG6\_HUMAN|Q9Y5G7 : USER001

515 - 521 YALRSFD

>PCDG7\_HUMAN|Q9Y5G6 : USER001

714 - 720 LRLRRWH

>PCDG8\_HUMAN|Q9Y5G5 : USER001

714 - 720 LRLRRWH

>PCDG9\_HUMAN|Q9Y5G4 : USER001

712 - 718 LALRLRH

714 - 720 LRLRHWH

>PCDGA\_HUMAN|Q9Y5H3 : USER001

519 - 525 YALRSFD  
718 - 724 HRLRRWH  
>PCDGC\_HUMAN|O60330 : USER001  
714 - 720 LRLRRWH  
>PCDGD\_HUMAN|Q9Y5G3 : USER001  
709 - 715 LRLRRSS  
>PCDGE\_HUMAN|Q9Y5G2 : USER001  
194 - 200 LILKHSL  
392 - 398 FILKSSS  
713 - 719 LRLRLSS  
>PCDGF\_HUMAN|Q9Y5G1 : USER001  
472 - 478 AHVRASD  
>PCDGG\_HUMAN|Q9UN71 : USER001  
711 - 717 LRLRRSS  
>PCDGH\_HUMAN|Q9Y5G0 : USER001  
709 - 715 LRLRRSS  
>PCDGI\_HUMAN|Q9Y5F9 : USER001  
713 - 719 LRLRRSL  
>PCDGJ\_HUMAN|Q9Y5F8 : USER001  
260 - 266 SILRVKA  
392 - 398 FKIHS  
713 - 719 LRLRQSF  
801 - 807 KILKQQA  
>PCDGL\_HUMAN|Q9Y5F7 : USER001  
395 - 401 FALKSAF  
399 - 405 SAFRNQF  
>PCDH7\_HUMAN|O60245 : USER001  
260 - 266 LIVKGAL  
521 - 527 LIVKVGD  
710 - 716 FRVKA  
>PCDH8\_HUMAN|O95206 : USER001  
562 - 568 YALRSFD  
>PCDH9\_HUMAN|Q9HC56 : USER001  
409 - 415 FHLKAVY  
937 - 943 KHYKSAS  
>PCGF2\_HUMAN|P35227 : USER001  
225 - 231 LKYRVQP  
>PCGF3\_HUMAN|Q3KNV8 : USER001  
164 - 170 SKLRGLK  
>PCGF5\_HUMAN|Q86SE9 : USER001  
182 - 188 LKCLKLPS  
>PCIF1\_HUMAN|Q9H4Z3 : USER001  
210 - 216 LKLRQHY



>PCLO\_HUMAN|Q9Y6V0 : USER001  
1857 - 1863 HKYKAFP  
3348 - 3354 AKVRGQY  
4536 - 4542 SHVHSGP  
5079 - 5085 YKFKSPD  
>PCNT\_HUMAN|O95613 : USER001  
20 - 26 AHFRQRK  
1899 - 1905 ARIRRAL  
2390 - 2396 KHVKALL  
2950 - 2956 SRLHLGS  
3205 - 3211 AILRLRF  
>PCSK4\_HUMAN|Q6UW60 : USER001  
89 - 95 HRLHLKK  
>PCSK5\_HUMAN|Q92824 : USER001  
483 - 489 SAVRSIY  
>PCSK6\_HUMAN|Q9UEJ9 : USER001  
456 - 462 AHLKASD  
>PCSK9\_HUMAN|Q8NBP7 : USER001  
110 - 116 KILHVFH  
133 - 139 LALKLPH  
>PCTK1\_HUMAN|Q00536 : USER001  
5 - 11 KIKRQL  
>PCTK2\_HUMAN|Q00537 : USER001  
2 - 8 KKFKRRL  
>PCX1\_HUMAN|Q96RV3 : USER001  
79 - 85 YRLHRAL  
1470 - 1476 SAFHAFa  
>PCY1B\_HUMAN|Q9Y5K3 : USER001  
238 - 244 KRYRFQN  
>PCYOX\_HUMAN|Q9UHG3 : USER001  
480 - 486 LAYHRWN  
>PD1L1\_HUMAN|Q9NZQ7 : USER001  
257 - 263 FIFRLRK  
>PD1L2\_HUMAN|Q9BQ51 : USER001  
117 - 123 LKVKASY  
>PDC6I\_HUMAN|Q8WUM4 : USER001  
47 - 53 SKLRRAA  
>PDDC1\_HUMAN|Q8NB37 : USER001  
67 - 73 FRLKAYA  
84 - 90 ARYHALL  
>PDE11\_HUMAN|Q9HCR9 : USER001  
507 - 513 FHRSVL  
>PDE1A\_HUMAN|Q9C0L4 : USER001

212 - 218 SKYKNPY  
360 - 366 LILHAAD  
>PDE1C\_HUMAN|Q14123 : USER001  
183 - 189 HALKFIF  
>PDE3A\_HUMAN|Q14432 : USER001  
423 - 429 KRLRRSL  
>PDE3B\_HUMAN|Q13370 : USER001  
312 - 318 KIFRRPS  
>PDE4A\_HUMAN|P27815 : USER001  
681 - 687 SAIRQSP  
>PDE5A\_HUMAN|O76074 : USER001  
627 - 633 AALKAGK  
>PDE6A\_HUMAN|P16499 : USER001  
26 - 32 LHYRAKL  
619 - 625 AKLHGSS  
>PDE6B\_HUMAN|P35913 : USER001  
221 - 227 KIYHLSY  
617 - 623 AKLHGSS  
>PDE6C\_HUMAN|P51160 : USER001  
622 - 628 ARLHGSS  
>PDE6D\_HUMAN|O43924 : USER001  
143 - 149 SRVRLFY  
>PDE7B\_HUMAN|Q9NP56 : USER001  
67 - 73 KKVKRLL  
296 - 302 AHLHNKD  
>PDGFA\_HUMAN|P04085 : USER001  
143 - 149 SRVHHR  
>PDGFD\_HUMAN|Q9GZP0 : USER001  
31 - 37 KALRNAN  
>PDIA2\_HUMAN|Q13087 : USER001  
456 - 462 FAVHGFP  
>PDIA4\_HUMAN|P13667 : USER001  
570 - 576 KKYKGQK  
>PDLI2\_HUMAN|Q96JY6 : USER001  
67 - 73 SKIRQSP  
>PDLI3\_HUMAN|Q53GG5 : USER001  
184 - 190 KIVHAQF  
>PDLI4\_HUMAN|P50479 : USER001  
30 - 36 SRVHAGS  
>PDRG1\_HUMAN|Q9NUG6 : USER001  
125 - 131 KALKVIL  
>PDS5A\_HUMAN|Q29RF7 : USER001  
69 - 75 LALHLAS

289 - 295 FKLKSND

365 - 371 LKVRSHD

886 - 892 SRLRLAA

>PDS5B\_HUMAN|Q9NTI5 : USER001

59 - 65 LALHLAS

279 - 285 FKLKSND

355 - 361 LKVRSHD

876 - 882 SRLRLAA

931 - 937 SRLRLPL

>PDX1\_HUMAN|P52945 : USER001

80 - 86 AHLHHHL

>PDXD1\_HUMAN|Q6P996 : USER001

152 - 158 LAIHSRY

>PDXD2\_HUMAN|Q6P474 : USER001

303 - 309 LAIHSQY

>PDZD2\_HUMAN|O15018 : USER001

792 - 798 SKVHAIL

>PDZD4\_HUMAN|Q76G19 : USER001

525 - 531 AKFRSLS

624 - 630 WKVKVRS

>PDZD6\_HUMAN|Q9ULD6 : USER001

140 - 146 SILKHQS

446 - 452 AKLHSSA

>PDZD8\_HUMAN|Q8NEN9 : USER001

277 - 283 KIIKRKH

288 - 294 YKIRFKP

>PE2R1\_HUMAN|P34995 : USER001

335 - 341 LAVRLAS

>PE2R3\_HUMAN|P43115 : USER001

157 - 163 LAIRAPH

>PECA1\_HUMAN|Q9NQS9 : USER001

492 - 498 LRVKVIA

>PECR\_HUMAN|Q9BY49 : USER001

167 - 173 LAVHSGA

>PEDF\_HUMAN|P36955 : USER001

102 - 108 SIIHRAL

148 - 154 LRIKSSF

211 - 217 AHFKGQW

>PELP1\_HUMAN|Q8IZL8 : USER001

524 - 530 AALRGLS

>PEO1\_HUMAN|Q96RR1 : USER001

242 - 248 SAYHNLF

>PEPC\_HUMAN|P20142 : USER001

52 - 58 WKYRFGD

>PEPL1\_HUMAN|Q8NDH3 : USER001

29 - 35 HHLHRVP

37 - 43 SHVRGKL

296 - 302 AAIKQGF

>PER1\_HUMAN|O15534 : USER001

145 - 151 LKLRLPP

>PER2\_HUMAN|O15055 : USER001

118 - 124 LKVHLPA

140 - 146 YALRSVK

185 - 191 HIVKNAD

432 - 438 HKVRVGP

>PERE\_HUMAN|P11678 : USER001

468 - 474 LAFRFGH

>PERI\_HUMAN|P41219 : USER001

177 - 183 AALKQRL

>PERL\_HUMAN|P22079 : USER001

96 - 102 KRLRQKA

318 - 324 SRLRNLS

462 - 468 FAFRFGH

543 - 549 HRIHGFD

>PERT\_HUMAN|Q8TCI9 : USER001

350 - 356 LRVHARL

419 - 425 AALKALN

488 - 494 AAFRFGH

>PEVR1\_HUMAN|Q9HAB3 : USER001

428 - 434 SIYHVFH

>PEVR2\_HUMAN|Q9NWF4 : USER001

209 - 215 AAFRGLL

>PEX10\_HUMAN|O60683 : USER001

82 - 88 SRIHVPS

201 - 207 LRVRSLP

249 - 255 WRLHRGL

>PEX13\_HUMAN|Q92968 : USER001

135 - 141 SIVHAFA

>PEX14\_HUMAN|O75381 : USER001

39 - 45 SRVRQSP

>PEX1\_HUMAN|O43933 : USER001

816 - 822 KALRGFL

1201 - 1207 SIIKGRY

>PEX5\_HUMAN|P50542 : USER001

543 - 549 AAYRRAL

>PEX7\_HUMAN|O00628 : USER001

243 - 249 YAIRRVK  
>PF2R\_HUMAN|P43088 : USER001  
228 - 234 LRVKFKS  
>PFTA\_HUMAN|P49354 : USER001  
134 - 140 WHFRRVL  
>PGAM1\_HUMAN|P18669 : USER001  
2 - 8 AAYKLVL  
>PGAM4\_HUMAN|Q8N0Y7 : USER001  
2 - 8 AAYKLVL  
>PGAP1\_HUMAN|Q75T13 : USER001  
608 - 614 LAYRGQL  
713 - 719 LALKRPS  
800 - 806 HHLRLSA  
>PGBD1\_HUMAN|Q96JS3 : USER001  
727 - 733 SIVKVYD  
>PGBD2\_HUMAN|Q6P3X8 : USER001  
16 - 22 SKVKSAA  
>PGBD4\_HUMAN|Q96DM1 : USER001  
269 - 275 KRVRFGL  
>PGBD5\_HUMAN|Q8N414 : USER001  
526 - 532 YHVKRYS  
>PGBM\_HUMAN|P98160 : USER001  
1310 - 1316 HHHFLSA  
2776 - 2782 SRLRLHH  
2778 - 2784 LRLHHVS  
2816 - 2822 SAVHVPA  
2976 - 2982 LRLHLVS  
3246 - 3252 SKLRSPL  
>PGCA\_HUMAN|P16112 : USER001  
155 - 161 FHYRAIS  
>PGCB\_HUMAN|Q96GW7 : USER001  
104 - 110 YRFRVAL  
>PGES2\_HUMAN|Q9H7Z7 : USER001  
78 - 84 WHLRAQD  
114 - 120 SKVRAFL  
291 - 297 KRLKSRH  
>PGFRB\_HUMAN|P09619 : USER001  
270 - 276 YHIRSIL  
984 - 990 AILRSQA  
>PGH2\_HUMAN|P35354 : USER001  
341 - 347 YHFKLKF  
>PGM2L\_HUMAN|Q6PCE3 : USER001  
392 - 398 KILKAIA

524 - 530 AILHVRD  
>PGM2\_HUMAN|Q96G03 : USER001  
265 - 271 SAFKAFD  
382 - 388 KILRAIA  
>PGM5\_HUMAN|Q15124 : USER001  
211 - 217 HAIKGLL  
505 - 511 LIFRLSS  
>PGRP4\_HUMAN|Q96LB8 : USER001  
105 - 111 HHVHNNS  
>PGSF1\_HUMAN|Q8N6C7 : USER001  
119 - 125 SHVKSVL  
>PH4H\_HUMAN|P00439 : USER001  
258 - 264 LAFRVFH  
>PHAR1\_HUMAN|Q9C0D0 : USER001  
424 - 430 LAIKLSN  
>PHAR2\_HUMAN|O75167 : USER001  
471 - 477 SKIRRRD  
479 - 485 LAIKLGN  
>PHAR3\_HUMAN|Q96KR7 : USER001  
403 - 409 LAVKLRN  
>PHBP\_HUMAN|P85173 : USER001  
348 - 354 AAVRASL  
>PHC1\_HUMAN|P78364 : USER001  
637 - 643 LAVKRKA  
835 - 841 FRLKRKK  
>PHC2\_HUMAN|Q96BL4 : USER001  
652 - 658 YKFKRSK  
>PHC3\_HUMAN|Q8NDX5 : USER001  
851 - 857 HILRQLP  
>PHEX\_HUMAN|P78562 : USER001  
158 - 164 HILRHSP  
>PHF12\_HUMAN|Q96QT6 : USER001  
442 - 448 SILKHLS  
>PHF14\_HUMAN|O94880 : USER001  
698 - 704 AILRAPK  
>PHF19\_HUMAN|Q5T6S3 : USER001  
27 - 33 AKVKNNF  
339 - 345 LRIRVPP  
>PHF1\_HUMAN|O43189 : USER001  
391 - 397 SAVRNQP  
>PHF20\_HUMAN|Q9BVI0 : USER001  
129 - 135 KHIHVKA  
790 - 796 SHFRNIP

>PHF2\_HUMAN|O75151 : USER001  
603 - 609 WKYKNSK

>PHF3\_HUMAN|Q92576 : USER001  
975 - 981 AKYKNKY  
1345 - 1351 LIIRQKL

>PHF8\_HUMAN|Q9UPP1 : USER001  
615 - 621 KRVKSLS

>PHIP\_HUMAN|Q9H261 : USER001  
343 - 349 HIIRVYF  
1061 - 1067 AKYRRWN  
1427 - 1433 SALRFHK

>PHKG1\_HUMAN|Q16816 : USER001  
46 - 52 YAVKVID

>PHKG2\_HUMAN|P15735 : USER001  
79 - 85 HILRQVA

>PHLA2\_HUMAN|Q53GA4 : USER001  
50 - 56 LRFHSIL

>PHLB1\_HUMAN|Q86UU1 : USER001  
1090 - 1096 SILHHLP

>PHLD\_HUMAN|Q96ID6 : USER001  
2 - 8 SAFRLWP

>PHLPP\_HUMAN|O60346 : USER001  
1317 - 1323 KRIKQHK

>PHOP1\_HUMAN|Q8TCT1 : USER001  
45 - 51 SIVRAAP

>PHS\_HUMAN|P61457 : USER001  
33 - 39 AIFKQFH

>PHTF1\_HUMAN|Q9UMS5 : USER001  
210 - 216 KRVKLIS

>PHYD1\_HUMAN|Q5SRE7 : USER001  
105 - 111 HALHAHD  
142 - 148 YIFKQPH

>PI15\_HUMAN|O43692 : USER001  
42 - 48 AALKAQL

>PI2R\_HUMAN|P43119 : USER001  
276 - 282 LAFRFYA

>PI3R4\_HUMAN|Q99570 : USER001  
74 - 80 LKIRLNS  
265 - 271 LAYRNGH  
401 - 407 LILHLAP  
591 - 597 WHLRGAF  
731 - 737 YALRSKD  
1185 - 1191 ARIRRLS

>PI3R6\_HUMAN|Q5UE93 : USER001  
615 - 621 LILKAIP

>PI42C\_HUMAN|Q8TBX8 : USER001  
80 - 86 SKIKVNN

>PI4KA\_HUMAN|P42356 : USER001  
464 - 470 YKYHSQY  
922 - 928 KRIRRVA  
1789 - 1795 AIFKVGD

>PI4KL\_HUMAN|A4QPH2 : USER001  
314 - 320 AIFKLGD

>PI51A\_HUMAN|Q99755 : USER001  
461 - 467 KKFRSGS

>PIAS1\_HUMAN|O75925 : USER001  
40 - 46 KALHLLK

>PIAS3\_HUMAN|Q9Y6X2 : USER001  
40 - 46 KALHLLK

>PICAL\_HUMAN|Q13492 : USER001  
333 - 339 ARLKALK

>PICK1\_HUMAN|Q9NRD5 : USER001  
119 - 125 KKVKHRL

>PIDD\_HUMAN|Q9NRE6 : USER001  
550 - 556 SRLHLLY  
611 - 617 LRLHRVN  
696 - 702 SHLKNVK

>PIF1\_HUMAN|Q9H611 : USER001  
120 - 126 LRLKLAA

>PIGB\_HUMAN|Q92521 : USER001  
256 - 262 LILHHFL

>PIGL\_HUMAN|Q9Y2B2 : USER001  
162 - 168 AAVRALH

>PIGN\_HUMAN|O95427 : USER001  
427 - 433 LALKGLS  
461 - 467 LIKSHS

>PIGO\_HUMAN|Q8TEQ8 : USER001  
365 - 371 SALHLNA  
682 - 688 AAVRLWL  
1032 - 1038 SILRRHL

>PIGQ\_HUMAN|Q9BRB3 : USER001  
412 - 418 LKIHGLS  
629 - 635 AALHHWH

>PIGS\_HUMAN|Q96S52 : USER001  
106 - 112 KAYRRAL

>PIGT\_HUMAN|Q969N2 : USER001



64 - 70 SHYRLFP

>PIGU\_HUMAN|Q9H490 : USER001

324 - 330 AIFKSYP

>PIGX\_HUMAN|Q8TBF5 : USER001

6 - 12 AAVRAAA

>PIHD2\_HUMAN|Q8WWB5 : USER001

282 - 288 YRLHLNL

>PIM1\_HUMAN|P11309 : USER001

101 - 107 AHLRAAP

307 - 313 HRYHGRS

>PIM3\_HUMAN|Q86V86 : USER001

219 - 225 HRYHGRS

>PINK1\_HUMAN|Q9BXM7 : USER001

517 - 523 LALKNLK

>PINL\_HUMAN|O15428 : USER001

53 - 59 ARVRRSH

>PINX1\_HUMAN|Q96BK5 : USER001

187 - 193 AALKNKP

>PIPNA\_HUMAN|Q00169 : USER001

60 - 66 KIYHLQS

161 - 167 AKFKSIK

>PIPNB\_HUMAN|P48739 : USER001

60 - 66 KIYHLKS

>PISD\_HUMAN|Q9UG56 : USER001

160 - 166 HHYRNLS

>PIT1\_HUMAN|P28069 : USER001

139 - 145 FKVRRIK

>PITM1\_HUMAN|O00562 : USER001

431 - 437 LILHSGN

>PITM2\_HUMAN|Q9BZ72 : USER001

420 - 426 SKIHVLL

471 - 477 LAIRLVP

1200 - 1206 LHLRVHA

1202 - 1208 LRVHAAAY

>PITM3\_HUMAN|Q9BZ71 : USER001

18 - 24 WHLRNVL

>PITX2\_HUMAN|Q99697 : USER001

127 - 133 ARVRVWF

>PITX3\_HUMAN|O75364 : USER001

104 - 110 ARVRVWF

>PIWL1\_HUMAN|Q96J94 : USER001

681 - 687 AALRAWN

>PIWL2\_HUMAN|Q8TC59 : USER001

213 - 219 LIVKQGS

>PJA1\_HUMAN|Q8NG27 : USER001

373 - 379 AALRRKY

>PJVK\_HUMAN|Q0ZLH3 : USER001

246 - 252 YRLRNIL

>PK1L1\_HUMAN|Q8TDX9 : USER001

889 - 895 SAFRFVH

2665 - 2671 SHLHRFL

>PK1L2\_HUMAN|Q7Z442 : USER001

11 - 17 LALRLRA

1668 - 1674 KALKVPS

2302 - 2308 AALRRAW

2335 - 2341 WKLRSYK

>PK1L3\_HUMAN|Q7Z443 : USER001

1402 - 1408 LHLRRFS

>PK2L1\_HUMAN|Q9P0L9 : USER001

593 - 599 LRLRLRK

>PK2L2\_HUMAN|Q9NZM6 : USER001

382 - 388 KIFKFIS

>PK3C3\_HUMAN|Q8NEB9 : USER001

382 - 388 ARLRQAD

807 - 813 LHLRRYS

>PK3CA\_HUMAN|P42336 : USER001

989 - 995 LAIRQHA

>PK3CD\_HUMAN|O00329 : USER001

690 - 696 SKLKALN

1013 - 1019 KHFRVKF

>PKCB1\_HUMAN|Q9H1F4 : USER001

283 - 289 AKLKGFP

>PKD1\_HUMAN|P98161 : USER001

3060 - 3066 SHVRFVF

3180 - 3186 WKIRVWH

3243 - 3249 LRFRRLL

3697 - 3703 HAYRLQS

3888 - 3894 FALRRLS

>PKD2\_HUMAN|Q13563 : USER001

324 - 330 LRVRNGS

>PKDRE\_HUMAN|Q9NTG1 : USER001

141 - 147 WAFRLRL

330 - 336 WIVRSSL

525 - 531 FAFRHFL

1701 - 1707 KRIKRA

>PKHA2\_HUMAN|Q9HB19 : USER001

395 - 401 SRIRHRS

>PKHA5\_HUMAN|Q9HAU0 : USER001

234 - 240 YAFKAAH

>PKHA7\_HUMAN|Q6IQ23 : USER001

139 - 145 KIIKSSS

619 - 625 HAVKNSS

>PKHB1\_HUMAN|Q9UF11 : USER001

33 - 39 SILRRWK

>PKHD1\_HUMAN|Q8TCZ9 : USER001

16 - 22 LAVRHLS

811 - 817 HHLHQLL

1714 - 1720 YHVRYD

1966 - 1972 LHIKGGK

2412 - 2418 LRLKNFK

3104 - 3110 FHIRGHK

3148 - 3154 LAFKNFD

>PKHG1\_HUMAN|Q9ULL1 : USER001

253 - 259 LKYHLLL

385 - 391 FHYKNPK

463 - 469 YRLRRKS

>PKHG2\_HUMAN|Q9H7P9 : USER001

241 - 247 LKYHLLL

>PKHG3\_HUMAN|Q96EW6 : USER001

232 - 238 LKYHLLL

935 - 941 LRIKSNK

>PKHG4\_HUMAN|Q58EX7 : USER001

532 - 538 LALRAQL

968 - 974 FAYKRSF

1012 - 1018 LAIKQAW

>PKHG5\_HUMAN|O94827 : USER001

199 - 205 LRVKAPA

>PKHG6\_HUMAN|Q3KR16 : USER001

606 - 612 SRLRQRA

688 - 694 ARLRGQL

>PKHH1\_HUMAN|Q9ULM0 : USER001

26 - 32 FRFRLQA

94 - 100 KAIKGKD

>PKHH2\_HUMAN|Q8IVE3 : USER001

1065 - 1071 LHLKRNA

1452 - 1458 AAFHHLS

>PKHH3\_HUMAN|Q7Z736 : USER001

494 - 500 LRLHGPL

539 - 545 AALRLQS

>PKHL1\_HUMAN|Q86WI1 : USER001  
748 - 754 LAYKGFL  
945 - 951 HILKGLP  
3976 - 3982 SKIRGKS  
>PKHM1\_HUMAN|Q9Y4G2 : USER001  
603 - 609 LALRASS  
>PKHN1\_HUMAN|Q494U1 : USER001  
278 - 284 SRVKLQH  
>PKN1\_HUMAN|Q16512 : USER001  
139 - 145 LKVKQGA  
641 - 647 FAIKALK  
>PKN2\_HUMAN|Q16513 : USER001  
149 - 155 LKVKQGA  
683 - 689 FAIKALK  
>PKN3\_HUMAN|Q6P5Z2 : USER001  
118 - 124 LKVKQGA  
585 - 591 YAIKALK  
>PKNX1\_HUMAN|P55347 : USER001  
57 - 63 AIYRHPL  
>PKNX2\_HUMAN|Q96KN3 : USER001  
363 - 369 KKIKSQH  
>PKP2\_HUMAN|Q99959 : USER001  
874 - 880 KAYHSLK  
>PLA2R\_HUMAN|Q13018 : USER001  
861 - 867 SKIKALS  
>PLAG1\_HUMAN|Q6DJT9 : USER001  
49 - 55 LKVHSYS  
>PLAK\_HUMAN|P14923 : USER001  
126 - 132 AIVHLIN  
207 - 213 SILHNLS  
440 - 446 AILRAGD  
483 - 489 AIVKLLN  
>PLAL1\_HUMAN|Q9UM63 : USER001  
110 - 116 LALHAAS  
>PLAP\_HUMAN|Q9Y263 : USER001  
106 - 112 YILKGHK  
521 - 527 SAYRSAA  
>PLBL1\_HUMAN|Q6P4A8 : USER001  
360 - 366 KKVKLNH  
>PLBL2\_HUMAN|Q8NHP8 : USER001  
521 - 527 KALRQRS  
>PLCB3\_HUMAN|Q01970 : USER001  
728 - 734 LRVKVIS

814 - 820 SAIRSGY

>PLCC\_HUMAN|Q9NRZ7 : USER001

200 - 206 LKYHLLP

>PLCD1\_HUMAN|P51178 : USER001

29 - 35 LKVKSSS

376 - 382 YAFKASP

>PLCE1\_HUMAN|Q9P212 : USER001

939 - 945 FAVKAVY

1957 - 1963 KALKRGY

>PLCE\_HUMAN|Q9NUQ2 : USER001

105 - 111 LAIRQNA

>PLCG2\_HUMAN|P16885 : USER001

965 - 971 SIIRQKP

1156 - 1162 KAVKSGF

>PLCH2\_HUMAN|O75038 : USER001

123 - 129 SIYHGSH

1344 - 1350 SRVRAIA

>PLCH\_HUMAN|Q53EU6 : USER001

61 - 67 SILKNSA

>PLCL1\_HUMAN|Q15111 : USER001

278 - 284 AKIRLKF

>PLCL2\_HUMAN|Q9UPR0 : USER001

150 - 156 KKVRSNS

>PLD1\_HUMAN|Q13393 : USER001

282 - 288 FKI KVGK

683 - 689 SAVHGKA

709 - 715 SKYRSL S

1038 - 1044 KKIRGFL

>PLD2\_HUMAN|O14939 : USER001

716 - 722 SILHRLK

>PLD4\_HUMAN|Q96BZ4 : USER001

198 - 204 AHVRQVP

>PLD5\_HUMAN|Q8N7P1 : USER001

411 - 417 LKVKFFD

481 - 487 SIIKQLK

>PLDN\_HUMAN|Q9UL45 : USER001

109 - 115 KHYHAKL

>PLEC1\_HUMAN|Q15149 : USER001

80 - 86 AHLRQYL

332 - 338 AIIHRHK

1142 - 1148 HRLRLPL

1270 - 1276 KKLRAQA

1779 - 1785 LRLRLQA

1941 - 1947 ARLRALA

2065 - 2071 LALKASF

2428 - 2434 ARLRQLA

>PLEK2\_HUMAN|Q9NYT0 : USER001

16 - 22 HIVHNWK

>PLGF\_HUMAN|P49763 : USER001

107 - 113 LKIRSGD

>PLK2\_HUMAN|Q9NYY3 : USER001

169 - 175 HILKARK

>PLK3\_HUMAN|Q9H4B4 : USER001

88 - 94 YAVKVIP

121 - 127 HIVRFSH

293 - 299 AILRASP

>PLK5\_HUMAN|Q496M5 : USER001

54 - 60 FALKVVP

257 - 263 LIVHLLA

>PLPL2\_HUMAN|Q96AD5 : USER001

92 - 98 KIIRSFL

>PLPL6\_HUMAN|Q8IY17 : USER001

320 - 326 LALHNYL

>PLPL7\_HUMAN|Q9H7N5 : USER001

249 - 255 AAFHGVF

279 - 285 LALHNYL

450 - 456 AIFRAAK

602 - 608 AIYRQGD

>PLPL8\_HUMAN|Q9NP80 : USER001

410 - 416 LRLRQIK

>PLS3\_HUMAN|Q9NRY6 : USER001

137 - 143 LRVRLAD

>PLSL\_HUMAN|P13796 : USER001

76 - 82 KIFHGLK

>PLTP\_HUMAN|P55058 : USER001

99 - 105 LRFRRQL

>PLVAP\_HUMAN|Q9BX97 : USER001

379 - 385 LAIRNSA

>PLXA1\_HUMAN|Q9UIW2 : USER001

865 - 871 KILKLSP

1169 - 1175 LILKGRN

1538 - 1544 AAYKGVF

>PLXA2\_HUMAN|O75051 : USER001

812 - 818 LKVHLYK

1365 - 1371 KALKLFA

>PLXA3\_HUMAN|P51805 : USER001

1302 - 1308 YAVRVLF

1814 - 1820 SRLHASD

1854 - 1860 HKLRQKL

>PLXA4\_HUMAN|Q9HCM2 : USER001

358 - 364 FILKQIN

1535 - 1541 AIFKNVP

>PLXB2\_HUMAN|O15031 : USER001

1173 - 1179 FIVKFGS

>PLXB3\_HUMAN|Q9ULL4 : USER001

203 - 209 LAIRQLA

701 - 707 LALRVRN

1410 - 1416 LALHGKL

>PLXC1\_HUMAN|O60486 : USER001

923 - 929 KKVRVKL

1553 - 1559 LHVKVLF

>PLXD1\_HUMAN|Q9Y4D7 : USER001

265 - 271 LKIKQGA

542 - 548 ARVKVAA

>PME17\_HUMAN|P40967 : USER001

614 - 620 LIYRRRL

>PMF1\_HUMAN|Q9UBQ3 : USER001

33 - 39 SRVKLLD

>PML\_HUMAN|P29590 : USER001

379 - 385 FKVRLQD

724 - 730 FKLKNLA

798 - 804 LALHNVS

>PMM2\_HUMAN|O15305 : USER001

108 - 114 AKIKLPK

>PMS1\_HUMAN|P54277 : USER001

818 - 824 FKIKLIP

>PMS2\_HUMAN|P54278 : USER001

627 - 633 KRIKQLH

>PNCB\_HUMAN|Q6XQN6 : USER001

153 - 159 ARLRLIA

>PNDC1\_HUMAN|Q8NA58 : USER001

139 - 145 WRVRSSP

>PNMT\_HUMAN|P11086 : USER001

149 - 155 ARVKRVL

>PNRC1\_HUMAN|Q12796 : USER001

100 - 106 KKVRASP

>PO121\_HUMAN|Q9Y2N3 : USER001

169 - 175 HRVHHFY

>PO210\_HUMAN|Q8TEM1 : USER001

409 - 415 HRIRALK  
1019 - 1025 LKLRAAS  
>PO3F1\_HUMAN|Q03052 : USER001  
433 - 439 AALHHHH  
>PO3F4\_HUMAN|P49335 : USER001  
92 - 98 AIIHRS  
>PO4F3\_HUMAN|Q15319 : USER001  
109 - 115 HAVHQGL  
>PO6F1\_HUMAN|Q14863 : USER001  
154 - 160 FKIRRLS  
>PO6F2\_HUMAN|P78424 : USER001  
483 - 489 FKIRRLS  
>PODN\_HUMAN|Q7Z5L7 : USER001  
241 - 247 YKLHLKN  
243 - 249 LHLKNNK  
566 - 572 SAFRRLK  
>POGK\_HUMAN|Q9P215 : USER001  
347 - 353 LALRAH  
>POGZ\_HUMAN|Q9Y4X7 : USER001  
976 - 982 KKL RVVL  
>POK4\_HUMAN|P63128 : USER001  
6 - 12 SKIKSKY  
86 - 92 AIKAAL  
305 - 311 ARYKSFS  
>POLI\_HUMAN|Q9UNA4 : USER001  
344 - 350 LIIRYS  
629 - 635 SAFHSFP  
>POLS3\_HUMAN|Q2L4Q9 : USER001  
177 - 183 LRLRLIS  
368 - 374 LILHGAY  
445 - 451 SRLHAAP  
>POMT1\_HUMAN|Q9UNT2 : USER001  
218 - 224 AAVHAWH  
>POMT2\_HUMAN|Q9UKY4 : USER001  
472 - 478 SRIRFIH  
>PON2\_HUMAN|Q15165 : USER001  
22 - 28 LALRNRL  
>PONL1\_HUMAN|Q6PEZ8 : USER001  
397 - 403 ARVHHRA  
>POP1\_HUMAN|Q99575 : USER001  
165 - 171 KAVHQKK  
647 - 653 SAVHSQY  
>POPD1\_HUMAN|Q8NE79 : USER001



354 - 360 LKVHQLP

>POPD3\_HUMAN|Q9HBV1 : USER001

28 - 34 AIYHLAS

>PORCN\_HUMAN|Q9H237 : USER001

406 - 412 AIFHLAY

>POSTN\_HUMAN|Q15063 : USER001

32 - 38 SRIRGRD

434 - 440 LKVKVGL

>POTE1\_HUMAN|Q9NUX5 : USER001

350 - 356 AILKQKA

360 - 366 YRIRAKL

364 - 370 AKLRSYK

>PP12C\_HUMAN|Q9BZL4 : USER001

229 - 235 SALHVAA

>PP13\_HUMAN|Q9UHV8 : USER001

52 - 58 FRFRVHF

54 - 60 FRVHFGN

>PP14D\_HUMAN|Q9NXH3 : USER001

135 - 141 KKLRRLS

>PP1R8\_HUMAN|Q12972 : USER001

68 - 74 SRVHAAL

78 - 84 KHLKRVF

>PP2BB\_HUMAN|P16298 : USER001

465 - 471 KAIRGFS

>PP4C\_HUMAN|P60510 : USER001

98 - 104 LALKVRY

>PP4R1\_HUMAN|Q8TF05 : USER001

532 - 538 AALRASS

>PP4RL\_HUMAN|Q9P1A2 : USER001

167 - 173 WKVRRAL

318 - 324 LIIRFRH

>PPARA\_HUMAN|Q07869 : USER001

408 - 414 LRLHLQS

>PPARD\_HUMAN|Q03181 : USER001

334 - 340 FAVKFNA

>PPARG\_HUMAN|Q86U60 : USER001

398 - 404 FAVKFNA

>PPB1\_HUMAN|P05187 : USER001

316 - 322 AALRLLS

>PPBI\_HUMAN|P09923 : USER001

313 - 319 AALRLLS

>PPCEL\_HUMAN|Q4J6C6 : USER001

294 - 300 KRIHGVV

>PPCKC\_HUMAN|P35558 : USER001  
510 - 516 KIFHVNW

>PPCT\_HUMAN|Q9UKL6 : USER001  
40 - 46 SIYRLLD

>PPE2\_HUMAN|O14830 : USER001  
135 - 141 FRLKQQL

>PPHLN\_HUMAN|Q8NEY8 : USER001  
332 - 338 FALRQNL

>PPIG\_HUMAN|Q13427 : USER001  
100 - 106 FAVKHNK  
690 - 696 SKIKQSS

>PPIH\_HUMAN|O43447 : USER001  
89 - 95 SIYRGPF  
100 - 106 FKLHSA

>PPIL1\_HUMAN|Q9Y3C6 : USER001  
158 - 164 KIIKAYP

>PPL13\_HUMAN|Q8TCE9 : USER001  
54 - 60 FRLHFGH

>PPLA\_HUMAN|P26678 : USER001  
10 - 16 SAIRRAS

>PPM1E\_HUMAN|Q8WY54 : USER001  
679 - 685 SHLRHHY  
690 - 696 HRFRFNP

>PPM1K\_HUMAN|Q96NT4 : USER001  
281 - 287 KRIKLHH

>PPP5\_HUMAN|P53041 : USER001  
141 - 147 KIVKQKA

>PPP6\_HUMAN|O00743 : USER001  
97 - 103 LALKAKW

>PPR1C\_HUMAN|Q8WVI7 : USER001  
83 - 89 KHLKGQN

>PPR3A\_HUMAN|Q16821 : USER001  
256 - 262 LKVKSSK  
896 - 902 AIVHSAF

>PPR3D\_HUMAN|O95685 : USER001  
101 - 107 LRVRFAD

>PPR3F\_HUMAN|Q6ZSY5 : USER001  
113 - 119 KAVHVRA

>PPRC1\_HUMAN|Q5VV67 : USER001  
1287 - 1293 SRVHVGS  
1602 - 1608 HKLRQAD

>PPWD1\_HUMAN|Q96BP3 : USER001  
127 - 133 KHFRSHL

>PQBP1\_HUMAN|Q4VY36 : USER001  
90 - 96 KCLRSSN

>PR15A\_HUMAN|O75807 : USER001  
617 - 623 ARLRNPP

>PR15B\_HUMAN|Q5SWA1 : USER001  
104 - 110 SALRALK

>PR285\_HUMAN|Q9BYK8 : USER001  
316 - 322 AKYKGPA  
2285 - 2291 HRIRQAP

>PRA18\_HUMAN|Q5VWM3 : USER001  
364 - 370 SKLRVIL

>PRA19\_HUMAN|Q5SWL8 : USER001  
295 - 301 SKLRVIL

>PRAF2\_HUMAN|O60831 : USER001  
140 - 146 LRLRNLK

>PRAF3\_HUMAN|O75915 : USER001  
139 - 145 LRLRNLK

>PRAM3\_HUMAN|Q5TYW8 : USER001  
364 - 370 SKLRVIL

>PRAX\_HUMAN|Q9BXM0 : USER001  
164 - 170 SRLRRGL  
1302 - 1308 HKLKVRL  
1433 - 1439 LRVRLPS

>PRCC\_HUMAN|Q92733 : USER001  
243 - 249 SAIKAAA

>PRD10\_HUMAN|Q9NQV6 : USER001  
547 - 553 KHVRSFH  
704 - 710 HILKNHP

>PRD13\_HUMAN|Q9H4Q3 : USER001  
628 - 634 KHIRLHA

>PRD14\_HUMAN|Q9GZV8 : USER001  
534 - 540 SHVRRSH

>PRDM2\_HUMAN|Q13029 : USER001  
689 - 695 SKLKQLL  
1611 - 1617 LHVRVQK

>PRDM4\_HUMAN|Q9UKN5 : USER001  
565 - 571 SHIHNL  
603 - 609 SKLHVHF

>PRDM5\_HUMAN|Q9NQX1 : USER001  
271 - 277 KRLKSKD

>PRDM8\_HUMAN|Q9NQV8 : USER001  
180 - 186 KRLHSAD

>PRDX3\_HUMAN|P30048 : USER001

181 - 187 LALRGLF  
>PREB\_HUMAN|Q9HCU5 : USER001  
272 - 278 KRLRQPP  
>PRG2\_HUMAN|P13727 : USER001  
15 - 21 SALHLRS  
>PRG4\_HUMAN|Q92954 : USER001  
196 - 202 KKLKVKD  
1250 - 1256 AKYKNWP  
>PRI2\_HUMAN|P49643 : USER001  
104 - 110 FILRLAY  
>PRIC1\_HUMAN|Q96MT3 : USER001  
67 - 73 HRIKQLL  
>PRIC2\_HUMAN|Q7Z3G6 : USER001  
71 - 77 LRIKQLL  
>PRIC3\_HUMAN|O43900 : USER001  
56 - 62 HAVHAVP  
127 - 133 YRIKQLL  
399 - 405 SAVKGAS  
>PRIMA\_HUMAN|Q86XR5 : USER001  
116 - 122 KAIKRKP  
>PRKDC\_HUMAN|Q9UME3 : USER001  
460 - 466 AIVKVFL  
1686 - 1692 LHLKGQA  
2519 - 2525 LIIRNFW  
2726 - 2732 LRLRRRF  
2908 - 2914 KRVRGKA  
3047 - 3053 SKLKLLL  
3452 - 3458 KALKLNS  
3556 - 3562 ARIKSKL  
3898 - 3904 LALRSHF  
>PRKRA\_HUMAN|O75569 : USER001  
134 - 140 LAIHHGW  
>PRLD2\_HUMAN|Q8N945 : USER001  
83 - 89 SILKVPN  
>PRLHR\_HUMAN|P49683 : USER001  
86 - 92 ARVRRLH  
>PRL\_HUMAN|P01236 : USER001  
114 - 120 SILRSWN  
>PRM2\_HUMAN|P04554 : USER001  
4 - 10 YRVRSLs  
51 - 57 SHYRRRH  
>PROD2\_HUMAN|Q9UF12 : USER001  
295 - 301 SRLHRVA

>PROM1\_HUMAN|O43490 : USER001  
811 - 817 FAVKLAK  
>PRP16\_HUMAN|Q92620 : USER001  
726 - 732 AAVKQSL  
>PRP17\_HUMAN|O60508 : USER001  
292 - 298 SAVRLF  
544 - 550 SRFKAHD  
>PRP19\_HUMAN|Q9UMS4 : USER001  
205 - 211 SKYRQVA  
>PRP39\_HUMAN|Q86UA1 : USER001  
515 - 521 KAVHGSL  
>PRP4B\_HUMAN|Q13523 : USER001  
479 - 485 SRLRRRS  
790 - 796 KAVRSYS  
801 - 807 LALKLLK  
971 - 977 KKVHQLK  
>PRP6\_HUMAN|O94906 : USER001  
769 - 775 SRLKNPK  
>PRP8\_HUMAN|Q6P2Q9 : USER001  
879 - 885 SRIKRHL  
1938 - 1944 LILRALH  
2073 - 2079 WRVRAIS  
>PRPF3\_HUMAN|O43395 : USER001  
546 - 552 YRVNLS  
>PRPS3\_HUMAN|P21108 : USER001  
285 - 291 SKIRVID  
>PRR3\_HUMAN|P79522 : USER001  
56 - 62 SALHRGP  
>PRR6\_HUMAN|Q7Z7K6 : USER001  
10 - 16 AKLRGQK  
190 - 196 SRFKLLK  
>PRRP\_HUMAN|P81277 : USER001  
16 - 22 LALRGAA  
>PRRT3\_HUMAN|Q5FWE3 : USER001  
514 - 520 SALRSAY  
>PRS10\_HUMAN|P62333 : USER001  
313 - 319 LKIHAGP  
330 - 336 AIVKLS  
>PRS33\_HUMAN|Q8NF86 : USER001  
88 - 94 YRVRLGA  
>PRS35\_HUMAN|Q8N3Z0 : USER001  
182 - 188 KKLRVGL  
>PRS7\_HUMAN|P35998 : USER001

355 - 361 FKIHARS

>PRS8\_HUMAN|P62195 : USER001

329 - 335 LKIHSRK

>PRSL1\_HUMAN|Q6UWY2 : USER001

178 - 184 AKVRVLD

>PRTG\_HUMAN|Q2VWP7 : USER001

686 - 692 YHVRLLA

969 - 975 LIYRSKA

>PRVA\_HUMAN|P20472 : USER001

66 - 72 FILKGFS

>PSA4\_HUMAN|P25789 : USER001

192 - 198 LAIKVLN

>PSA6\_HUMAN|P60900 : USER001

27 - 33 YAFKAIN

>PSA7L\_HUMAN|Q8TAA3 : USER001

198 - 204 LAIKALL

>PSB11\_HUMAN|A5LHX3 : USER001

53 - 59 LAFRFRH

>PSB3\_HUMAN|P49720 : USER001

67 - 73 LKFRLNL

>PSB4\_HUMAN|P28070 : USER001

79 - 85 ARFRNIS

>PSB5\_HUMAN|P28074 : USER001

8 - 14 LAFKFRH

>PSB7\_HUMAN|Q99436 : USER001

75 - 81 SKIHFIS

>PSB8\_HUMAN|P28062 : USER001

76 - 82 LAFKFQH

99 - 105 SALRVNK

>PSD11\_HUMAN|O00231 : USER001

372 - 378 KKFHGIL

>PSD12\_HUMAN|O00232 : USER001

245 - 251 KHYRAIY

>PSD1\_HUMAN|A5PKW4 : USER001

959 - 965 LRVKLKA

>PSD3\_HUMAN|Q9NYI0 : USER001

957 - 963 KKVKAKD

>PSF2\_HUMAN|Q9Y248 : USER001

126 - 132 AKLRVSA

>PSG10\_HUMAN|Q15235 : USER001

122 - 128 HIIKRGD

>PSG11\_HUMAN|Q9UQ72 : USER001

123 - 129 HIIKRGD

>PSG2\_HUMAN|P11465 : USER001  
123 - 129 HIIKRGD  
>PSG3\_HUMAN|Q16557 : USER001  
123 - 129 HIVKRGD  
>PSG4\_HUMAN|Q00888 : USER001  
123 - 129 HIIKRRD  
>PSG5\_HUMAN|Q15238 : USER001  
123 - 129 HIIKRGD  
>PSG6\_HUMAN|Q00889 : USER001  
122 - 128 HIIKRGD  
>PSG7\_HUMAN|Q13046 : USER001  
123 - 129 HIIKRGD  
>PSG9\_HUMAN|Q00887 : USER001  
123 - 129 HIIKRGD  
>PSIP1\_HUMAN|O75475 : USER001  
401 - 407 KKIRRFK  
>PSL4\_HUMAN|Q8TCT6 : USER001  
334 - 340 SRIHRAA  
>PSMD1\_HUMAN|Q8IV79 : USER001  
543 - 549 KILRGLA  
597 - 603 KAIRRL  
>PSMD3\_HUMAN|O43242 : USER001  
394 - 400 LIIRLRH  
>PSMD5\_HUMAN|Q16401 : USER001  
144 - 150 AAIKSLS  
>PSME4\_HUMAN|Q14997 : USER001  
1071 - 1077 SIVRLFD  
>PSMG1\_HUMAN|O95456 : USER001  
124 - 130 YHLKSNP  
>PSN1\_HUMAN|P49768 : USER001  
460 - 466 LAFHQFY  
>PSPN\_HUMAN|O60542 : USER001  
56 - 62 ARLRRAL  
>PTAR1\_HUMAN|Q7Z6K3 : USER001  
237 - 243 FHYRQFL  
>PTBP1\_HUMAN|P26599 : USER001  
397 - 403 HKLHGKP  
520 - 526 HHLRVSF  
>PTBP2\_HUMAN|Q9UKA9 : USER001  
520 - 526 HHLRVSF  
>PTCD1\_HUMAN|O75127 : USER001  
232 - 238 LKLRQQL  
>PTCD3\_HUMAN|Q96EY7 : USER001

374 - 380 HIIRLFD

>PTCRA\_HUMAN|Q6ISU1 : USER001

255 - 261 SALRAPS

>PTD16\_HUMAN|Q5M7Z0 : USER001

113 - 119 SRLRGHS

256 - 262 FILKFFF

>PTEN\_HUMAN|P60484 : USER001

341 - 347 FKVKLYF

>PTF1A\_HUMAN|Q7RTS3 : USER001

136 - 142 ARLRGLS

>PTGIS\_HUMAN|Q16647 : USER001

425 - 431 KRLKNYN

>PTHD1\_HUMAN|Q96NR3 : USER001

114 - 120 LILKLHA

>PTHD2\_HUMAN|Q9P2K9 : USER001

124 - 130 LALKSQF

724 - 730 SAVKSRW

>PTHR1\_HUMAN|Q03431 : USER001

101 - 107 SRYRGRP

>PTK6\_HUMAN|Q13882 : USER001

240 - 246 KKL RHKH

>PTK7\_HUMAN|Q13308 : USER001

961 - 967 YHFRQAW

>PTN13\_HUMAN|Q9NYN9 : USER001

155 - 161 AHIRNSN

1529 - 1535 SIVRVKK

1753 - 1759 YHIIHIS

>PTN14\_HUMAN|Q15678 : USER001

1056 - 1062 LKVKHLL

>PTN20\_HUMAN|Q4JDL1 : USER001

280 - 286 KHFRVFL

>PTN22\_HUMAN|Q9Y2R2 : USER001

29 - 35 LKLKRQS

174 - 180 LKVVFNS

188 - 194 FHYKNWP

>PTN23\_HUMAN|Q9H3S7 : USER001

638 - 644 AAVRRVL

>PTN2\_HUMAN|P17706 : USER001

57 - 63 SRVKLQN

>PTN3\_HUMAN|P26045 : USER001

103 - 109 LHFRVRF

>PTN4\_HUMAN|P29074 : USER001

3 - 9 SRFRLPA



189 - 195 AKLHQQH  
>PTN5\_HUMAN|P54829 : USER001  
411 - 417 YRLRLIS  
>PTN9\_HUMAN|P43378 : USER001  
114 - 120 ARLHHPH  
422 - 428 SRIRFGF  
>PTPR2\_HUMAN|Q92932 : USER001  
598 - 604 SKLKFLP  
1008 - 1014 AILKALP  
>PTPRA\_HUMAN|P18433 : USER001  
692 - 698 FHFHGWP  
>PTPRB\_HUMAN|P23467 : USER001  
255 - 261 YAFHGLS  
473 - 479 LRVKHAN  
908 - 914 SAVKNIH  
1177 - 1183 SHLRGSN  
1939 - 1945 LRLHRVH  
>PTPRE\_HUMAN|P23469 : USER001  
590 - 596 FHFHGWP  
>PTPRF\_HUMAN|P10586 : USER001  
375 - 381 YA FRVLA  
878 - 884 YIFRLAA  
>PTPRG\_HUMAN|P23470 : USER001  
889 - 895 SRVKLRP  
1402 - 1408 FIYKARL  
>PTPRN\_HUMAN|Q16849 : USER001  
972 - 978 AILKALP  
>PTPRO\_HUMAN|Q16827 : USER001  
977 - 983 SRVRLVS  
>PTPRQ\_HUMAN|Q9UMZ3 : USER001  
211 - 217 SAVKLIW  
>PTPRR\_HUMAN|Q15256 : USER001  
60 - 66 KIYRHSY  
>PTPRS\_HUMAN|Q13332 : USER001  
590 - 596 YAFRLAA  
>PTPRU\_HUMAN|Q92729 : USER001  
912 - 918 HRVKLHP  
>PUM1\_HUMAN|Q14671 : USER001  
793 - 799 AKYRSAS  
>PUM2\_HUMAN|Q8TB72 : USER001  
671 - 677 AKYRSAS  
>PUR2\_HUMAN|P22102 : USER001  
25 - 31 HHVKQVL

>PUR8\_HUMAN|P30566 : USER001  
193 - 199 LRFRGVK

>PURA1\_HUMAN|Q8N142 : USER001  
194 - 200 SRFKNLA  
219 - 225 KRLKGFA

>PUS10\_HUMAN|Q3MIT2 : USER001  
472 - 478 HHFRLHL

>PUS7L\_HUMAN|Q9H0K6 : USER001  
7 - 13 YRIRFSS  
177 - 183 SAIRQKF  
456 - 462 KAIKLFL

>PVRL1\_HUMAN|Q15223 : USER001  
209 - 215 SRYRLVP

>PVRL4\_HUMAN|Q96NY8 : USER001  
238 - 244 HILHVSF  
372 - 378 SRYHRRK

>PWP2B\_HUMAN|Q6NUJ5 : USER001  
271 - 277 SRVHGSL

>PWP2\_HUMAN|Q15269 : USER001  
3 - 9 FAYRFSN

>PX11B\_HUMAN|O96011 : USER001  
186 - 192 LALKLRL

>PX11C\_HUMAN|Q96HA9 : USER001  
149 - 155 LKLRQRL

>PXDN\_HUMAN|Q92626 : USER001  
1068 - 1074 AAFRFGH

>PXK\_HUMAN|Q6ZN39 : USER001  
237 - 243 LIYKAKP

>PXMP2\_HUMAN|Q9NR77 : USER001  
172 - 178 LKFRVLF

>PXMP4\_HUMAN|Q9Y6I8 : USER001  
41 - 47 AKIRAPH

>PYC\_HUMAN|P11498 : USER001  
450 - 456 FRVRGVK  
1058 - 1064 LHIKALA

>PYGL\_HUMAN|P06737 : USER001  
639 - 645 SKLKVIF

>PYRG1\_HUMAN|P17812 : USER001  
249 - 255 SIYRVPL

>PZP\_HUMAN|P20742 : USER001  
344 - 350 SKLKFKV  
1451 - 1457 AIVKVYD

>PZRN3\_HUMAN|Q9UPQ7 : USER001

701 - 707 SIVRAHK  
>QCR2\_HUMAN|P22695 : USER001  
180 - 186 AAYRNAL  
>QCR7\_HUMAN|P14927 : USER001  
61 - 67 FRIKRAL  
>QCR9\_HUMAN|Q9UDW1 : USER001  
54 - 60 KHIKHKY  
>QPCTL\_HUMAN|Q9NXS2 : USER001  
297 - 303 KRLHRLN  
>QPCT\_HUMAN|Q16769 : USER001  
51 - 57 SALRQIA  
>QRFPR\_HUMAN|Q96P65 : USER001  
408 - 414 KKLKRHL  
>QSER1\_HUMAN|Q2KHR3 : USER001  
1420 - 1426 SKYKRIY  
1678 - 1684 YKYHVYL  
>QSOX1\_HUMAN|O00391 : USER001  
733 - 739 AKIRALK  
>QSOX2\_HUMAN|Q6ZRP7 : USER001  
113 - 119 SAIRVAA  
689 - 695 WKVKHHH  
>QTRD1\_HUMAN|Q9H974 : USER001  
231 - 237 ARLRLLS  
>R113A\_HUMAN|O15541 : USER001  
151 - 157 KIYRGIN  
>R113B\_HUMAN|Q8IZP6 : USER001  
145 - 151 HIYRGIH  
>R3GEF\_HUMAN|Q8TBN0 : USER001  
62 - 68 LRLRSSS  
313 - 319 HRIRLGD  
>R4RL2\_HUMAN|Q86UN3 : USER001  
221 - 227 AAFRGLS  
>RA54B\_HUMAN|Q9Y620 : USER001  
147 - 153 LIVKGKS  
434 - 440 HRLKNSA  
>RAB23\_HUMAN|Q9ULC3 : USER001  
141 - 147 KRLKLRF  
>RAB32\_HUMAN|Q13637 : USER001  
62 - 68 FALKVLN  
126 - 132 SKVHLPN  
>RAB34\_HUMAN|Q9BZG1 : USER001  
24 - 30 AALHGHK  
>RAB37\_HUMAN|Q96AX2 : USER001

191 - 197 LKYRAGH

>RAB38\_HUMAN|P57729 : USER001

46 - 52 FALKVLH

>RAB3I\_HUMAN|Q9H673 : USER001

159 - 165 SRLRSPS

406 - 412 HRIKLGD

>RAD50\_HUMAN|Q92878 : USER001

170 - 176 KALKQKF

703 - 709 SKLRLAP

1211 - 1217 LIIRLAL

>RAD52\_HUMAN|P43351 : USER001

41 - 47 KALRQRL

>RAD54\_HUMAN|Q92698 : USER001

617 - 623 YIYRLLS

>RAD9A\_HUMAN|Q99638 : USER001

15 - 21 KAVHSLS

359 - 365 KKFRSLF

>RADI\_HUMAN|P35241 : USER001

78 - 84 FKFRAKF

>RAF1\_HUMAN|P04049 : USER001

375 - 381 KILKVVD

>RAG1\_HUMAN|P15918 : USER001

100 - 106 KAIHQAN

440 - 446 LALRARN

621 - 627 KAVRFSF

>RAG2\_HUMAN|P55895 : USER001

91 - 97 YIIHGGK

>RAI14\_HUMAN|Q9P0K7 : USER001

88 - 94 SALHLAA

>RAI1\_HUMAN|Q7Z5J4 : USER001

1090 - 1096 AAFKSGK

1220 - 1226 HALKRKS

>RALY\_HUMAN|Q9UKM9 : USER001

178 - 184 AKIKLKS

>RAMP1\_HUMAN|O60894 : USER001

94 - 100 LAVHGRY

>RAMP2\_HUMAN|O60895 : USER001

23 - 29 AALRLLL

>RAMP\_HUMAN|Q6UXH9 : USER001

562 - 568 AILKLLD

>RANG\_HUMAN|P43487 : USER001

138 - 144 LAIRFLN

>RASA1\_HUMAN|P20936 : USER001

588 - 594 KRLRQVS  
706 - 712 LRVRARY  
>RASD1\_HUMAN|Q9Y272 : USER001  
220 - 226 KALRNKK  
>RASEF\_HUMAN|Q8IZ41 : USER001  
11 - 17 ARLRSVF  
>RASF1\_HUMAN|Q9UND5 : USER001  
216 - 222 KHLHVLS  
270 - 276 LRLRLLA  
>RASL1\_HUMAN|O95294 : USER001  
250 - 256 LRVKVRL  
439 - 445 LAFKQLH  
>RASL2\_HUMAN|O43374 : USER001  
729 - 735 LIYRHLL  
>RASM\_HUMAN|O14807 : USER001  
109 - 115 LILRVKD  
>RAVR1\_HUMAN|Q8IY67 : USER001  
290 - 296 SHLRVSF  
>RB12B\_HUMAN|Q8IXT5 : USER001  
197 - 203 AIVKFAS  
>RB15B\_HUMAN|Q8NDT2 : USER001  
379 - 385 KKLKNLS  
>RB22A\_HUMAN|Q9UL26 : USER001  
180 - 186 FKLRRQP  
>RB27B\_HUMAN|O00194 : USER001  
64 - 70 KAFKVHL  
66 - 72 FKVHLQL  
>RB33A\_HUMAN|Q14088 : USER001  
165 - 171 LALKFAD  
>RB33B\_HUMAN|Q9H082 : USER001  
197 - 203 HKLKSHK  
>RB35A\_HUMAN|Q6NXG1 : USER001  
112 - 118 LHVRQIL  
>RB35B\_HUMAN|Q9H6T0 : USER001  
360 - 366 LRLRGLP  
417 - 423 AALRRHK  
>RB39A\_HUMAN|Q14964 : USER001  
60 - 66 KRIKLQL  
>RB40A\_HUMAN|Q8WXH6 : USER001  
220 - 226 SHLKSFS  
>RB40B\_HUMAN|Q12829 : USER001  
220 - 226 SHLKSFS  
>RB40C\_HUMAN|Q96S21 : USER001

220 - 226 SHLKSFS

>RB40L\_HUMAN|P0C0E4 : USER001

220 - 226 SHLKSFS

>RBAK\_HUMAN|Q9NYW8 : USER001

276 - 282 FIIHQRA

686 - 692 KKFHRS

>RBBP4\_HUMAN|Q09028 : USER001

306 - 312 LKLKLHS

>RBCC1\_HUMAN|Q8TDY2 : USER001

448 - 454 LHVRLKW

1046 - 1052 LKLKVSD

1390 - 1396 SKLRSSS

1583 - 1589 YRVKAVS

>RBFAL\_HUMAN|Q8N0V3 : USER001

91 - 97 ARLRALN

>RBGP1\_HUMAN|Q9Y3P9 : USER001

454 - 460 LKLKQIK

>RBGPR\_HUMAN|Q9H2M9 : USER001

292 - 298 AAIKNSP

374 - 380 LAVRFGL

>RBL2\_HUMAN|Q08999 : USER001

847 - 853 AAVRLRD

>RBM14\_HUMAN|Q96PK6 : USER001

247 - 253 AAYRAQP

>RBM15\_HUMAN|Q96T38 : USER001

121 - 127 SRLHSYS

761 - 767 SKLKSPS

>RBM16\_HUMAN|Q9UPN6 : USER001

32 - 38 AAIKAIK

35 - 41 KAIKFYK

109 - 115 KIVRVLN

298 - 304 SIFHQIA

>RBM19\_HUMAN|Q9Y4C8 : USER001

4 - 10 LIVKNLP

455 - 461 HAVKAYS

637 - 643 KAFRHLA

645 - 651 SKFHHP

>RBM26\_HUMAN|Q8N3H5 : USER001

946 - 952 ARFKGQD

>RBM28\_HUMAN|Q9NW13 : USER001

116 - 122 LIIRNLS

555 - 561 KALRLIN

>RBM33\_HUMAN|Q96EV2 : USER001

993 - 999 SKVRVIK

>RBM34\_HUMAN|P42696 : USER001

104 - 110 KKVKAKK

199 - 205 KKLKSFF

343 - 349 LALKLNN

>RBM44\_HUMAN|Q6ZP01 : USER001

997 - 1003 KIIKRLA

>RBM4B\_HUMAN|Q9BQ04 : USER001

58 - 64 YKLHGVN

222 - 228 KRYRVRS

>RBM4\_HUMAN|Q9BWF3 : USER001

58 - 64 YKLHGVN

>RBM9\_HUMAN|Q8WYB1 : USER001

121 - 127 KRLHVSN

278 - 284 AAFRGAH

>RBP17\_HUMAN|Q9H2T7 : USER001

835 - 841 SALKSAL

>RBP2\_HUMAN|P49792 : USER001

631 - 637 KHFSVD

685 - 691 LIFHRKA

2419 - 2425 LAVRFKL

2591 - 2597 SKVKNLF

>RBPJL\_HUMAN|Q9UBG7 : USER001

165 - 171 KHFRVL

>RB\_HUMAN|P06400 : USER001

414 - 420 SILKRVK

>RC3H2\_HUMAN|Q9NXE1 : USER001

443 - 449 YRLRNKK

>RCAN2\_HUMAN|Q14206 : USER001

79 - 85 KKLKLYF

>RCBT1\_HUMAN|Q8NDN9 : USER001

74 - 80 KIKSLS

>RCC1\_HUMAN|P18754 : USER001

21 - 27 KKVKVSH

>RCC2\_HUMAN|Q9P258 : USER001

430 - 436 WRIRSLA

>RD23A\_HUMAN|P54725 : USER001

182 - 188 AALRASY

>RD23B\_HUMAN|P54727 : USER001

209 - 215 AALRASF

>RD3\_HUMAN|Q7Z3Z2 : USER001

98 - 104 LRFRQLL

>RECK\_HUMAN|O95980 : USER001

61 - 67 SRLKHLL  
962 - 968 LALHLLW  
>RECQ4\_HUMAN|O94761 : USER001  
1033 - 1039 LAFHLRS  
>RECQ5\_HUMAN|O94762 : USER001  
93 - 99 LKVRVSS  
205 - 211 AALHLKK  
287 - 293 KAYHAGL  
>RED1\_HUMAN|P78563 : USER001  
63 - 69 SKYRLKK  
>RED2\_HUMAN|Q9NS39 : USER001  
493 - 499 ARLHSPY  
>REEP1\_HUMAN|Q9H902 : USER001  
25 - 31 KAVKSKD  
>REEP3\_HUMAN|Q6NUK4 : USER001  
243 - 249 LKYKVKK  
>REM1\_HUMAN|O75628 : USER001  
243 - 249 LRLRRRD  
>RENAL\_HUMAN|Q5VYX0 : USER001  
113 - 119 SIIKHYL  
>RENT1\_HUMAN|Q92900 : USER001  
604 - 610 KRYRALK  
>RENT2\_HUMAN|Q9HAU5 : USER001  
648 - 654 FRFHVRK  
1144 - 1150 LHLKSQL  
>REPI1\_HUMAN|Q9BWE0 : USER001  
133 - 139 LHLRAHS  
243 - 249 KRFRHKP  
466 - 472 KAFRHKP  
>REPS2\_HUMAN|Q8NFH8 : USER001  
213 - 219 SKLRSSA  
>REQU\_HUMAN|Q92785 : USER001  
216 - 222 KRYKNRP  
>RERE\_HUMAN|Q9P2R6 : USER001  
1430 - 1436 SHIHSHL  
1436 - 1442 LHLHQQD  
>REST\_HUMAN|Q13127 : USER001  
176 - 182 HHIRVHS  
265 - 271 KHLRNHF  
406 - 412 YHFKSKH  
423 - 429 SKVKLKK  
1051 - 1057 LAVKAAK  
>RETBP\_HUMAN|P02753 : USER001



185 - 191 LIVHNGY

>RETN\_HUMAN|Q9HD89 : USER001

39 - 45 LIFRAIS

>RETST\_HUMAN|Q6NUM9 : USER001

586 - 592 AILKRNL

601 - 607 SRIRAQK

>RET\_HUMAN|P07949 : USER001

471 - 477 KALRRPK

744 - 750 FHLKGRA

>REV1\_HUMAN|Q9UBZ9 : USER001

356 - 362 SRLHHIS

473 - 479 KILKGKA

>REXO1\_HUMAN|Q8N1G1 : USER001

568 - 574 KRLKASP

869 - 875 KCLRGLA

1149 - 1155 LALKVIH

>REXON\_HUMAN|Q96IC2 : USER001

122 - 128 KAFRHKF

126 - 132 HKFRLPP

341 - 347 FKLKFLA

665 - 671 WKLKGRH

>RF1M\_HUMAN|O75570 : USER001

320 - 326 SAVRLVH

>RFA1\_HUMAN|P27694 : USER001

409 - 415 YKLRGWF

>RFC3\_HUMAN|P40938 : USER001

180 - 186 LAVRVPA

>RFC4\_HUMAN|P35249 : USER001

195 - 201 SKFRFKP

>RFIP1\_HUMAN|Q6WKZ4 : USER001

126 - 132 YKLKSKP

>RFIP2\_HUMAN|Q7L804 : USER001

410 - 416 AKFRASN

494 - 500 SILRVPY

>RFIP4\_HUMAN|Q86YS3 : USER001

289 - 295 ARLKNLK

>RFIP5\_HUMAN|Q9BXF6 : USER001

146 - 152 YKLHSKP

>RFT1\_HUMAN|Q96AA3 : USER001

34 - 40 FILRFLS

>RFTN1\_HUMAN|Q14699 : USER001

55 - 61 SAVRLAS

99 - 105 HIFRAIL

>RFTN2\_HUMAN|Q52LD8 : USER001  
103 - 109 LRLKLSP  
184 - 190 LHVRHGS

>RFWD2\_HUMAN|Q8NHY2 : USER001  
536 - 542 AKVKLWS  
567 - 573 SRYHLAF

>RFWD3\_HUMAN|Q6PCD5 : USER001  
172 - 178 ARLRAPL  
434 - 440 HKYHFQK

>RFX1\_HUMAN|P22670 : USER001  
509 - 515 LRIKASS  
734 - 740 LRVKVAA

>RFX4\_HUMAN|Q8SNA1 : USER001  
105 - 111 KIIRQQF

>RFXK\_HUMAN|O14593 : USER001  
196 - 202 YAVRGNH

>RGAG4\_HUMAN|Q5HYW3 : USER001  
355 - 361 HRLHSDK

>RGAP1\_HUMAN|Q9H0H5 : USER001  
305 - 311 KRIKFGK

>RGDSR\_HUMAN|Q8IZJ4 : USER001  
86 - 92 FRIKLAF  
90 - 96 LAFRNLS

>RGF1A\_HUMAN|Q8N9B8 : USER001  
108 - 114 AKLKSFS

>RGF1C\_HUMAN|Q8N431 : USER001  
164 - 170 AALRQGP

>RGL1\_HUMAN|Q9NZL6 : USER001  
146 - 152 SILRAWL  
339 - 345 SIYRLKK

>RGL2\_HUMAN|O15211 : USER001  
364 - 370 HRLRAAW

>RGL3\_HUMAN|Q3MIN7 : USER001  
356 - 362 YRLKRSW  
482 - 488 AALHAQN

>RGMA\_HUMAN|Q96B86 : USER001  
77 - 83 AALRSYA

>RGMB\_HUMAN|Q6NW40 : USER001  
83 - 89 KALRAYA

>RGMC\_HUMAN|Q6ZVN8 : USER001  
155 - 161 SRLHGRP

>RGPD1\_HUMAN|Q68DN6 : USER001  
622 - 628 KHFHSD

676 - 682 LIFHRKA  
1428 - 1434 LAVRFKL  
1600 - 1606 SKVKNLS  
>RGPD4\_HUMAN|Q7Z3J3 : USER001  
632 - 638 KHFHSVD  
686 - 692 LIFHRKA  
1444 - 1450 LAVRFKL  
1616 - 1622 SKVKNLS  
>RGPD5\_HUMAN|Q99666 : USER001  
631 - 637 KHFHSVD  
685 - 691 LIFHRKA  
1443 - 1449 LAVRFKL  
1615 - 1621 SKVKNLS  
>RGPD6\_HUMAN|Q53T03 : USER001  
631 - 637 KHFHSVD  
685 - 691 LIFHRKA  
1443 - 1449 LAVRFKL  
1615 - 1621 SKVKNLS  
>RGPD7\_HUMAN|Q9H0B2 : USER001  
631 - 637 KHFHSVD  
685 - 691 LIFHRKA  
>RGPD8\_HUMAN|O14715 : USER001  
433 - 439 LAVRFKL  
605 - 611 SKVKNLS  
>RGPS2\_HUMAN|Q86X27 : USER001  
449 - 455 LAVHLYP  
>RGRF1\_HUMAN|Q13972 : USER001  
3 - 9 KAIRLND  
1142 - 1148 AIFRLKK  
>RGRF2\_HUMAN|O14827 : USER001  
478 - 484 SKVRLGS  
1104 - 1110 AIYRLKK  
>RGS12\_HUMAN|O14924 : USER001  
164 - 170 LKLKQRS  
>RGS14\_HUMAN|O43566 : USER001  
588 - 594 SALHALS  
>RGS16\_HUMAN|O15492 : USER001  
77 - 83 AAFHAFL  
>RGS22\_HUMAN|Q8NE09 : USER001  
475 - 481 SKFKLLD  
527 - 533 WHLRQAK  
849 - 855 KHFKFSD  
>RGS2\_HUMAN|P41220 : USER001

95 - 101 AAFRAFL  
>RGS3\_HUMAN|Q8TD59 : USER001  
183 - 189 SRLRHQK  
1110 - 1116 KKVKSQS  
>RGS4\_HUMAN|P49798 : USER001  
74 - 80 AAFKAFL  
99 - 105 KKI KSPS  
>RGS5\_HUMAN|O15539 : USER001  
101 - 107 KKI KSPA  
>RGS8\_HUMAN|P57771 : USER001  
68 - 74 AAFRAFL  
>RHAG\_HUMAN|Q02094 : USER001  
381 - 387 LILKLPL  
>RHBD1\_HUMAN|Q8TEB9 : USER001  
148 - 154 FALKVLN  
>RHBG\_HUMAN|Q9H310 : USER001  
331 - 337 SKFKVQD  
>RHBT1\_HUMAN|O94844 : USER001  
465 - 471 KAFHVRK  
>RHBT2\_HUMAN|Q9BYZ6 : USER001  
691 - 697 LHLKRQP  
>RHBT3\_HUMAN|O94955 : USER001  
540 - 546 AKFHHS D  
>RHCG\_HUMAN|Q9UBD6 : USER001  
414 - 420 LILRLPF  
>RHG07\_HUMAN|Q96QB1 : USER001  
237 - 243 LKLKSSH  
626 - 632 KRIKVPD  
>RHG08\_HUMAN|Q9NVX8 : USER001  
114 - 120 SKLKRSS  
>RHG10\_HUMAN|A1A4S6 : USER001  
457 - 463 SALKQYL  
>RHG12\_HUMAN|Q8IWW6 : USER001  
608 - 614 KKLRSFK  
>RHG15\_HUMAN|Q8IXX1 : USER001  
236 - 242 FRLH HSA  
>RHG17\_HUMAN|Q9H8U5 : USER001  
297 - 303 KKLKAAL  
>RHG23\_HUMAN|Q9P227 : USER001  
720 - 726 AALRARS  
>RHG26\_HUMAN|Q9UNA1 : USER001  
48 - 54 SALKNLS  
>RHG27\_HUMAN|Q6ZUM4 : USER001

665 - 671 SKVRHKL  
793 - 799 AAIKLQD  
>RHG28\_HUMAN|Q9P2N2 : USER001  
341 - 347 KKIRHLS  
>RHG29\_HUMAN|Q52LW3 : USER001  
110 - 116 AKVKAVN  
>RHG30\_HUMAN|Q7Z6I6 : USER001  
955 - 961 SKIHVAP  
>RHGBA\_HUMAN|Q6P4F7 : USER001  
219 - 225 KKLRLQA  
435 - 441 LRLKFNL  
>RIC1\_HUMAN|Q4ADV7 : USER001  
830 - 836 HILRQLL  
>RICH2\_HUMAN|Q17R89 : USER001  
300 - 306 KKLKAAL  
>RICTR\_HUMAN|Q6R327 : USER001  
13 - 19 LRVGRN  
260 - 266 FHYRHSP  
465 - 471 KRLRASA  
734 - 740 KHLRVLL  
921 - 927 KKLKASL  
>RIF1\_HUMAN|Q9H830 : USER001  
806 - 812 LIVKVIY  
2180 - 2186 SILKRGL  
2224 - 2230 SIVRSYS  
>RIMB2\_HUMAN|O15034 : USER001  
450 - 456 YKVKVLA  
>RIMB3\_HUMAN|Q9UFD9 : USER001  
111 - 117 AHFRGHP  
1501 - 1507 LALRAGD  
>RIMS1\_HUMAN|Q9HBA5 : USER001  
816 - 822 SHVHRRD  
>RIN1\_HUMAN|Q13671 : USER001  
450 - 456 ARLRRRL  
>RIN2\_HUMAN|Q8WYP3 : USER001  
277 - 283 LKVHSQD  
867 - 873 HIFHFVY  
>RING2\_HUMAN|Q99496 : USER001  
263 - 269 LAVRLAL  
>RINI\_HUMAN|P13489 : USER001  
50 - 56 SALRVNP  
>RINT1\_HUMAN|Q6NUQ1 : USER001  
101 - 107 KRIRSAI

>RIOK1\_HUMAN|Q9BRS2 : USER001  
228 - 234 FRFRHGY

>RIOK2\_HUMAN|Q9BVS4 : USER001  
215 - 221 LIVKLAN  
515 - 521 SAVRRRL

>RIPK2\_HUMAN|O43353 : USER001  
485 - 491 SKVRQLL

>RIPK3\_HUMAN|Q9Y572 : USER001  
154 - 160 LHVKLAD

>RIPK4\_HUMAN|P57078 : USER001  
37 - 43 YKVRHVH  
364 - 370 ARLKRAS  
785 - 791 SALHLAA

>RISC\_HUMAN|Q9HB40 : USER001  
3 - 9 LALRRSP  
425 - 431 WILKAGH

>RIT1\_HUMAN|Q92963 : USER001  
205 - 211 KRLKSPF

>RIT2\_HUMAN|Q99578 : USER001  
193 - 199 KKLKRKD  
203 - 209 KKLKGS

>RK\_HUMAN|Q15835 : USER001  
37 - 43 AKLKLPP

>RL10\_HUMAN|P27635 : USER001  
85 - 91 FHIRVRL

>RL12\_HUMAN|P30050 : USER001  
80 - 86 LIKALK

>RL13A\_HUMAN|P40429 : USER001  
71 - 77 YHFRAPS

>RL14\_HUMAN|P50914 : USER001  
60 - 66 FILKFP

>RL15\_HUMAN|P61313 : USER001  
34 - 40 SALHRAP  
140 - 146 KAIRRN

>RL17\_HUMAN|P18621 : USER001  
22 - 28 LRVHFKN

>RL18A\_HUMAN|Q02543 : USER001  
148 - 154 SKIKFPL

>RL1D1\_HUMAN|O76021 : USER001  
144 - 150 AKLRLLS  
159 - 165 ARIRLL

>RL23A\_HUMAN|P62750 : USER001  
20 - 26 KALKAKK

52 - 58 LRLRRQP

75 - 81 AIIKFPL

>RL28\_HUMAN|P46779 : USER001

109 - 115 AAIRRAS

116 - 122 AILRSQK

>RL31\_HUMAN|P62899 : USER001

82 - 88 YRIRVRL

>RL35A\_HUMAN|P18077 : USER001

86 - 92 AKFRSNL

>RL35\_HUMAN|P42766 : USER001

2 - 8 AKIKARD

>RL37A\_HUMAN|P61513 : USER001

81 - 87 SAIRRLK

>RL37\_HUMAN|P61927 : USER001

25 - 31 KAYHLQK

>RL39\_HUMAN|P62891 : USER001

7 - 13 FRIKRFL

>RL3R1\_HUMAN|Q9NSD7 : USER001

398 - 404 KALKSLL

>RL3R2\_HUMAN|Q8TDU9 : USER001

327 - 333 LRLRLWP

>RL4\_HUMAN|P36578 : USER001

172 - 178 KKLKAWN

219 - 225 KAARNIP

>RL7A\_HUMAN|P62424 : USER001

72 - 78 KRLKVPP

>RL7L\_HUMAN|Q6DKI1 : USER001

108 - 114 ARLRLKK

>RL7\_HUMAN|P18124 : USER001

112 - 118 LRLRQIF

153 - 159 LIYKRGY

>RL8\_HUMAN|P62917 : USER001

18 - 24 AHVKHRK

27 - 33 ARLRAVD

>RLA0\_HUMAN|P05388 : USER001

63 - 69 KAIRGHL

>RLBP1\_HUMAN|P12271 : USER001

233 - 239 ARFKAIH

236 - 242 KAIHFIH

>RLF\_HUMAN|Q13129 : USER001

457 - 463 LALKAHW

1065 - 1071 LRLKHLS

1565 - 1571 SIVRHYK

1874 - 1880 LALKQLH

>RM01\_HUMAN|Q9BYD6 : USER001

79 - 85 KAVHLLK

>RM11\_HUMAN|Q9Y3B7 : USER001

22 - 28 AIVRAGL

121 - 127 ARIKAQD

>RM14\_HUMAN|Q6P1L8 : USER001

75 - 81 LAIKGQK

>RM30\_HUMAN|Q8TCC3 : USER001

108 - 114 AKLKVVK

>RM36\_HUMAN|Q9P0J6 : USER001

46 - 52 AAVRSL

>RM38\_HUMAN|Q96DV4 : USER001

329 - 335 YIFHQLL

>RM44\_HUMAN|Q9H9J2 : USER001

37 - 43 AAFRFQK

>RM47\_HUMAN|Q9HD33 : USER001

219 - 225 ARIKARK

>RM49\_HUMAN|Q13405 : USER001

147 - 153 LRIKGYF

>RM50\_HUMAN|Q8N5N7 : USER001

94 - 100 SRLKFNL

>RM53\_HUMAN|Q96EL3 : USER001

92 - 98 SHIRARD

>RMD5A\_HUMAN|Q9H871 : USER001

192 - 198 FKLHRLY

>RMD5B\_HUMAN|Q96G75 : USER001

194 - 200 FKLHRLH

>RMI1\_HUMAN|Q9H9A7 : USER001

18 - 24 WHVKVPP

>RMND1\_HUMAN|Q9NWS8 : USER001

121 - 127 KILKRHF

340 - 346 KKVKLSH

>RMP\_HUMAN|O94763 : USER001

381 - 387 SILKSRS

>RN111\_HUMAN|Q6ZNA4 : USER001

831 - 837 AHYHAPP

>RN122\_HUMAN|Q9H9V4 : USER001

61 - 67 SKLRNQA

>RN123\_HUMAN|Q9H9T2 : USER001

305 - 311 WRLRGQP

319 - 325 HIFHHFA

875 - 881 SALKNYF



>RN135\_HUMAN|Q8IUD6 : USER001  
425 - 431 LIIKQVK

>RN139\_HUMAN|Q8WU17 : USER001  
194 - 200 LAVKLLKW  
230 - 236 KRIRFPD

>RN145\_HUMAN|Q96MT1 : USER001  
378 - 384 KHFRAYS

>RN169\_HUMAN|Q8NCN4 : USER001  
303 - 309 SRVRAVP

>RN175\_HUMAN|Q8N4F7 : USER001  
142 - 148 LIYKLSY  
169 - 175 FKIARD

>RN180\_HUMAN|Q86T96 : USER001  
111 - 117 AAVHLSK  
499 - 505 LKIKQSF

>RN187\_HUMAN|Q5TA31 : USER001  
67 - 73 KKLRAFF

>RN19A\_HUMAN|Q9NV58 : USER001  
625 - 631 SKFRHNS

>RN213\_HUMAN|Q9HCL8 : USER001  
639 - 645 YRVHALP

>RN5A\_HUMAN|Q05823 : USER001  
139 - 145 KALKFLY

>RNB3L\_HUMAN|Q86VV4 : USER001  
71 - 77 KRVRSSS  
400 - 406 AAIHHRL

>RNBP6\_HUMAN|O60518 : USER001  
986 - 992 KILKFKP

>RNF13\_HUMAN|O43567 : USER001  
119 - 125 AIVHNVD

>RNF34\_HUMAN|Q969K3 : USER001  
127 - 133 LILRNIP

>RNF38\_HUMAN|Q9H0F5 : USER001  
47 - 53 AHFKAFF

>RNF43\_HUMAN|Q68DV7 : USER001  
46 - 52 AIIRVIP  
349 - 355 AHYHLPA

>RNH2B\_HUMAN|Q5TBB1 : USER001  
247 - 253 KKIKLSD

>RNH2C\_HUMAN|Q8TDP1 : USER001  
12 - 18 HRVHLRS  
142 - 148 AKVRGAL

>RNPL1\_HUMAN|Q9HAU8 : USER001

388 - 394 HRVRRFL

>RNT2\_HUMAN|O00584 : USER001

4 - 10 AALRGAL

>RNZ1\_HUMAN|Q9H777 : USER001

176 - 182 KAFRLFH

>RNZ2\_HUMAN|Q9BQ52 : USER001

247 - 253 LHLKRGH

>RO60\_HUMAN|P10155 : USER001

110 - 116 AAFKAVS

>ROBO1\_HUMAN|Q9Y6N7 : USER001

619 - 625 SAIKGLK

1462 - 1468 KKLKHQP

>ROBO4\_HUMAN|Q8WZ75 : USER001

495 - 501 ARVHLGP

>ROCK1\_HUMAN|Q13464 : USER001

639 - 645 KHLKHNL

>ROCK2\_HUMAN|O75116 : USER001

1014 - 1020 AAIKAQF

>ROD1\_HUMAN|O95758 : USER001

510 - 516 HHLRVSF

>ROP1A\_HUMAN|Q9HAT0 : USER001

24 - 30 AAIRVQP

>ROP1B\_HUMAN|Q9BZX4 : USER001

24 - 30 AAIRAQP

>ROR1\_HUMAN|Q01973 : USER001

116 - 122 LRIRNLD

444 - 450 KHVRGQN

486 - 492 KIYKGHL

>RORG\_HUMAN|P51449 : USER001

448 - 454 LAFHHHL

>ROS\_HUMAN|P08922 : USER001

164 - 170 YIFRVVW

1207 - 1213 LHLHNRS

1422 - 1428 KALRSRH

2225 - 2231 SIYKSRD

>RP1L1\_HUMAN|Q8IWN7 : USER001

51 - 57 LAVHQRA

1137 - 1143 SKVRFKD

>RPA1\_HUMAN|O95602 : USER001

1067 - 1073 HHFRAIK

1274 - 1280 KALKRVK

1277 - 1283 KRVKSLK

1363 - 1369 SAFRNVN

>RPA34\_HUMAN|O15446 : USER001  
78 - 84 HRYRVLS

>RPAP1\_HUMAN|Q9BWH6 : USER001  
409 - 415 LALHVLA  
1351 - 1357 LHYKLPN

>RPB2\_HUMAN|P30876 : USER001  
480 - 486 SHLRRLN

>RPB3\_HUMAN|P19387 : USER001  
149 - 155 LIVKLRK  
159 - 165 LRLRAYA

>RPC1\_HUMAN|O14802 : USER001  
1156 - 1162 SKLRVKP

>RPC6\_HUMAN|Q9H1D9 : USER001  
137 - 143 KAVKSV A

>RPC7L\_HUMAN|Q9BT43 : USER001  
117 - 123 LKIRVRK

>RPGF2\_HUMAN|Q9Y4G8 : USER001  
851 - 857 AKYRNVL  
954 - 960 KRVRSS

>RPGF3\_HUMAN|O95398 : USER001  
199 - 205 LHIKAVA

>RPGF4\_HUMAN|Q8WZA2 : USER001  
202 - 208 KILRAGK  
352 - 358 LHIKALS  
552 - 558 AHYHAQP  
628 - 634 KIVKQIS

>RPGF5\_HUMAN|Q92565 : USER001  
4 - 10 SRLRVFD

>RPGF6\_HUMAN|Q8TEU7 : USER001  
994 - 1000 AKYRNIL  
1170 - 1176 AHLHQPH

>RPGP1\_HUMAN|P47736 : USER001  
401 - 407 LHIHSQS

>RPGR1\_HUMAN|Q96KN7 : USER001  
630 - 636 LHIHQAF

>RPGR\_HUMAN|Q92834 : USER001  
140 - 146 HKIKQLS  
349 - 355 FIVKLVA  
965 - 971 KIVKNNN

>RPH3L\_HUMAN|Q9UNE2 : USER001  
21 - 27 LALRAKL

>RPKL1\_HUMAN|Q9Y6S9 : USER001  
531 - 537 SKLKSHP

>RPOM\_HUMAN|O00411 : USER001  
841 - 847 LKIHLVN

>RPTOR\_HUMAN|Q8N122 : USER001  
117 - 123 ARYKQSL  
201 - 207 LIVKSFK  
445 - 451 HRLRALD  
996 - 1002 SRVRRQA

>RRAGC\_HUMAN|Q9HB90 : USER001  
163 - 169 KAYKVNP  
316 - 322 AIIKLNN

>RRAGD\_HUMAN|Q9NQL2 : USER001  
317 - 323 AIIKLNN

>RRBP1\_HUMAN|Q9P2E9 : USER001  
696 - 702 AILKRQL

>RREB1\_HUMAN|Q86SU2 : USER001  
660 - 666 AHVRS HL  
808 - 814 HILKQHL

>RRMJ1\_HUMAN|Q9UET6 : USER001  
156 - 162 KIFRGRD

>RRMJ3\_HUMAN|Q8IY81 : USER001  
712 - 718 HRIRQLP

>RRN3L\_HUMAN|Q2M238 : USER001  
22 - 28 AIIRQAA

>RRN3\_HUMAN|Q9NYV6 : USER001  
397 - 403 AIIRQAA

>RRP12\_HUMAN|Q5JTH9 : USER001  
13 - 19 AKLKRWK  
481 - 487 YKFHAAW

>RRP1B\_HUMAN|Q14684 : USER001  
140 - 146 SRIKVFL

>RRP5\_HUMAN|Q14690 : USER001  
548 - 554 FIIRVKD

>RS13\_HUMAN|P62277 : USER001  
111 - 117 AKFRLIL  
120 - 126 SRIHRLA

>RS14\_HUMAN|P62263 : USER001  
93 - 99 LHIKLRA  
114 - 120 SALRALA

>RS18\_HUMAN|P62269 : USER001  
11 - 17 HILRVLN  
129 - 135 LRVRGQH

>RS21\_HUMAN|P63220 : USER001  
68 - 74 SILRLAK

>RS25\_HUMAN|P62851 : USER001  
77 - 83 LKIRGSL

>RS28\_HUMAN|P62857 : USER001  
41 - 47 SIIRNVK

>RS4X\_HUMAN|P62701 : USER001  
7 - 13 KHLKRVA

>RS4Y1\_HUMAN|P22090 : USER001  
7 - 13 KHLKRVA

>RS4Y2\_HUMAN|Q8TD47 : USER001  
7 - 13 KHLKRVA

>RS5\_HUMAN|P46782 : USER001  
161 - 167 AAFRNIK

>RS7\_HUMAN|P62081 : USER001  
142 - 148 KRIRVKL

>RSBN1\_HUMAN|Q5VWQ0 : USER001  
365 - 371 AIVHGAA

>RSBNL\_HUMAN|Q6PCB5 : USER001  
682 - 688 WHIRLKL

>RSF1\_HUMAN|Q96T23 : USER001  
696 - 702 FKYKLP

>RSLAA\_HUMAN|Q92737 : USER001  
19 - 25 AIIRQFL

>RSLAB\_HUMAN|Q96S79 : USER001  
19 - 25 AIVRQFL  
183 - 189 KHVHAAL

>RSLBB\_HUMAN|Q9BPW5 : USER001  
157 - 163 LHIKQVD

>RSPH1\_HUMAN|Q8WYR4 : USER001  
59 - 65 YKFKNGA

>RSPRY\_HUMAN|Q96DX4 : USER001  
567 - 573 SRIRQIS

>RSSA\_HUMAN|P08865 : USER001  
37 - 43 YIYKRKS

>RT02\_HUMAN|Q9Y399 : USER001  
87 - 93 ARVHLGH

>RT11\_HUMAN|P82912 : USER001  
86 - 92 AHIKASH

>RT16\_HUMAN|Q9Y3D3 : USER001  
10 - 16 KAYRGGH

>RT18B\_HUMAN|Q9Y676 : USER001  
214 - 220 SRLRRLY

>RT21\_HUMAN|P82921 : USER001  
3 - 9 KHLKFIA

>RT24\_HUMAN|Q96EL2 : USER001  
40 - 46 ARVRVSK

>RT27\_HUMAN|Q92552 : USER001  
93 - 99 YKFRHSP  
335 - 341 KALHSKL

>RT30\_HUMAN|Q9NP92 : USER001  
140 - 146 AALRAVA

>RT31\_HUMAN|Q92665 : USER001  
216 - 222 ARVRSRP

>RT35\_HUMAN|Q9P1R5 : USER001  
173 - 179 LRVKLSS

>RT4I1\_HUMAN|Q8WWV3 : USER001  
327 - 333 KALKHFW

>RTBDN\_HUMAN|Q9BSG5 : USER001  
99 - 105 SRFRLRL

>RTEL1\_HUMAN|Q9Y4R6 : USER001  
876 - 882 KKIRLVS

>RTKN2\_HUMAN|Q8IZC4 : USER001  
353 - 359 KRIHNFS

>RTN3\_HUMAN|Q7RTM8 : USER001  
944 - 950 LIIRLFL

>RTP1\_HUMAN|P59025 : USER001  
173 - 179 YRIHVAS

>RTP2\_HUMAN|Q5QGT7 : USER001  
137 - 143 YRIHVAS

>RTTN\_HUMAN|Q9UFJ4 : USER001  
774 - 780 LALKLLA  
1634 - 1640 KAFRQAH  
1879 - 1885 HALKANL  
2109 - 2115 SKYKHKS

>RU17\_HUMAN|Q9UE45 : USER001  
159 - 165 SAYKHAD

>RUFY1\_HUMAN|Q96T51 : USER001  
83 - 89 SALRAAA

>RUFY3\_HUMAN|Q7L099 : USER001  
408 - 414 LAFKLQS

>RUN2A\_HUMAN|Q9HA26 : USER001  
68 - 74 AAIKQAA

>RUND1\_HUMAN|Q96C34 : USER001  
395 - 401 LALRQQP  
601 - 607 LAVRQLK

>RUSC2\_HUMAN|Q8N2Y8 : USER001  
12 - 18 LIVHHIP

>RUSD3\_HUMAN|Q6P087 : USER001  
213 - 219 SHFRVVA  
304 - 310 LHLHRL

>RUSD4\_HUMAN|Q96CM3 : USER001  
271 - 277 LRVHLSF

>RXFP1\_HUMAN|Q9HBX9 : USER001  
168 - 174 YAFRGLN

>RXRA\_HUMAN|P19793 : USER001  
330 - 336 LHVHRNS

>RXRB\_HUMAN|P28702 : USER001  
401 - 407 LHVHRNS

>RXRG\_HUMAN|P48443 : USER001  
331 - 337 LHVHRSS

>RX\_HUMAN|Q9Y2V3 : USER001  
326 - 332 AALRLKA

>RYR1\_HUMAN|P21817 : USER001  
2451 - 2457 LRIRAIL

>RYR2\_HUMAN|Q92736 : USER001  
1382 - 1388 SRLKQRF  
3055 - 3061 SALRAFL  
3468 - 3474 AALKRLL

>RYR3\_HUMAN|Q15413 : USER001  
949 - 955 KKVLPK  
1080 - 1086 YAVRSGK  
1932 - 1938 YKIKGPP  
2816 - 2822 FAYKFLK

>S100Z\_HUMAN|Q8WYG8 : USER001  
25 - 31 KRFKLSK

>S11IP\_HUMAN|Q8N1F8 : USER001  
197 - 203 SALRFLN  
801 - 807 HRLRFL

>S12A1\_HUMAN|Q13621 : USER001  
966 - 972 FRIKFAD

>S12A3\_HUMAN|P55017 : USER001  
884 - 890 SKFRLGF

>S12A6\_HUMAN|Q9UHW9 : USER001  
41 - 47 SRVRFSS

>S12A8\_HUMAN|Q96RF9 : USER001  
155 - 161 WAVRGIS  
178 - 184 WIIRLQL

>S13A2\_HUMAN|Q13183 : USER001  
9 - 15 WAYRSYL

>S13A3\_HUMAN|Q9BR25 : USER001

157 - 163 AILKSLF

>S15A1\_HUMAN|P46059 : USER001

242 - 248 FAIKNRF

>S15A2\_HUMAN|Q16348 : USER001

84 - 90 SIYHAFS

464 - 470 FHFHLKY

468 - 474 LKYHNLS

>S17A5\_HUMAN|Q9NRA2 : USER001

54 - 60 YALRVNL

>S19A3\_HUMAN|Q9BZV2 : USER001

377 - 383 LIFKSSY

>S20A1\_HUMAN|Q8WUM9 : USER001

393 - 399 HKLHLAK

>S22A8\_HUMAN|Q8TCC7 : USER001

274 - 280 KILRRVA

>S22AB\_HUMAN|Q9NSA0 : USER001

283 - 289 LIIKGKP

>S2538\_HUMAN|Q96DW6 : USER001

163 - 169 AALRSIY

>S2611\_HUMAN|Q86WA9 : USER001

428 - 434 WRVKRLD

>S26A1\_HUMAN|Q9H2B4 : USER001

286 - 292 HRLRVPL

>S26A2\_HUMAN|P50443 : USER001

579 - 585 KIFRFVA

>S26A3\_HUMAN|P40879 : USER001

242 - 248 SIFKVLY

>S26A4\_HUMAN|O43511 : USER001

546 - 552 KILRFSS

>S26A6\_HUMAN|Q9BXS9 : USER001

366 - 372 FALRHGY

>S26A7\_HUMAN|Q8TE54 : USER001

639 - 645 SHIHSNK

>S27A2\_HUMAN|O14975 : USER001

331 - 337 HKVRLAL

>S27A3\_HUMAN|Q5K4L6 : USER001

18 - 24 LKLHLWP

>S27A5\_HUMAN|Q9Y2P5 : USER001

96 - 102 KILHLGL

>S29A1\_HUMAN|Q99808 : USER001

284 - 290 AILKNIS

>S29A3\_HUMAN|Q9BZD2 : USER001

80 - 86 FKLRNSS



>S35A2\_HUMAN|P78381 : USER001  
222 - 228 KILKGSS

>S35A5\_HUMAN|Q9BS91 : USER001  
322 - 328 FILKFLD

>S35C2\_HUMAN|Q9NQQ7 : USER001  
229 - 235 KIFRFQD

>S35D1\_HUMAN|Q9NTN3 : USER001  
91 - 97 KALRVVK

>S35D2\_HUMAN|Q76EJ3 : USER001  
79 - 85 KIIHFPD

>S35E1\_HUMAN|Q96K37 : USER001  
218 - 224 HHLRLLN

>S35F1\_HUMAN|Q5T1Q4 : USER001  
123 - 129 AILRRRW

>S35F2\_HUMAN|Q8IXU6 : USER001  
91 - 97 LAFRSGS  
154 - 160 FILHARY  
158 - 164 ARYRVIH

>S35F5\_HUMAN|Q8WV83 : USER001  
22 - 28 FRLRSAK  
192 - 198 SRVRFSN

>S38A2\_HUMAN|Q96QD8 : USER001  
35 - 41 AALKSHY

>S39A1\_HUMAN|Q9NY26 : USER001  
187 - 193 LALHSVF

>S39A6\_HUMAN|Q13433 : USER001  
557 - 563 HILHHHH

>S39AA\_HUMAN|Q9ULF5 : USER001  
121 - 127 KHFFSHN  
176 - 182 HRLRHHH  
182 - 188 HRLHHHL

>S39AD\_HUMAN|Q96H72 : USER001  
104 - 110 WRLKQLL

>S3TC1\_HUMAN|Q8TE82 : USER001  
89 - 95 LAVRRKS

>S3TC2\_HUMAN|Q8TF17 : USER001  
638 - 644 LAIRLLL

>S40A1\_HUMAN|Q9NP59 : USER001  
233 - 239 LAVKAGL

>S41A2\_HUMAN|Q96JW4 : USER001  
436 - 442 LHLHSIP

>S41A3\_HUMAN|Q96GZ6 : USER001  
280 - 286 KILKFGW

>S43A3\_HUMAN|Q8NBI5 : USER001  
174 - 180 LIIKLLY

>S45A2\_HUMAN|Q9UMX9 : USER001  
11 - 17 HIYKSLA  
180 - 186 LHYHALF

>S47A2\_HUMAN|Q86VL8 : USER001  
387 - 393 SILKNQL

>S4A10\_HUMAN|Q6U841 : USER001  
928 - 934 SILKFIP

>S4A11\_HUMAN|Q8NBS3 : USER001  
115 - 121 LKLKNFK  
727 - 733 LHVRALA

>S4A7\_HUMAN|Q9Y6M7 : USER001  
803 - 809 KKLRGVF

>S5A1\_HUMAN|P18405 : USER001  
46 - 52 HRLRVPA

>S61A1\_HUMAN|Q9Y2R3 : USER001  
270 - 276 ARYRGQY

>S61A2\_HUMAN|Q9H9S3 : USER001  
270 - 276 ARYRGQY

>S6A15\_HUMAN|Q9H2J7 : USER001  
637 - 643 FIVRRFN

>S6A18\_HUMAN|Q96N87 : USER001  
543 - 549 LRYKAWN

>S9A11\_HUMAN|Q5TAH2 : USER001  
510 - 516 ARLHVAA  
842 - 848 KKLKALN  
912 - 918 AILHSLS

>SAC1\_HUMAN|Q9NTJ5 : USER001  
432 - 438 KIYKNAW

>SACA1\_HUMAN|Q9HBV2 : USER001  
245 - 251 AAVKAFW

>SACA3\_HUMAN|Q8IXA5 : USER001  
3 - 9 SALRGAP

>SACS\_HUMAN|Q9NZJ4 : USER001  
539 - 545 SKVKVHW  
925 - 931 AIFKRIN  
1312 - 1318 AKFHQLF  
1997 - 2003 SILKRRD  
2530 - 2536 SRIKSIL  
3056 - 3062 YRLKHLL  
3360 - 3366 SILKALH  
3405 - 3411 KILKSLP

3532 - 3538 SRLKQAK

4057 - 4063 LRVKGFN

4296 - 4302 KKLKVNS

4327 - 4333 KIIRRLY

4490 - 4496 YAVRGKS

>SAM11\_HUMAN|Q96NU1 : USER001

247 - 253 AALRGPS

>SAM13\_HUMAN|Q5VXD3 : USER001

115 - 121 KHLKNNS

>SAM14\_HUMAN|Q8IZD0 : USER001

80 - 86 HRLRSPL

>SAMD7\_HUMAN|Q7Z3H4 : USER001

137 - 143 AAYHGRS

>SAMD9\_HUMAN|Q5K651 : USER001

731 - 737 KIIHLYH

>SAPS1\_HUMAN|Q9UPN7 : USER001

587 - 593 HHLHSSS

>SAPS2\_HUMAN|O75170 : USER001

538 - 544 HHLHSSS

>SARDH\_HUMAN|Q9UL12 : USER001

427 - 433 WIIHGRP

536 - 542 YAYRLL

901 - 907 AHLKSPF

912 - 918 KRVKGIY

>SARM1\_HUMAN|Q6SZW1 : USER001

580 - 586 LKVHLQL

>SAS10\_HUMAN|Q9NQZ2 : USER001

14 - 20 AAVRAKA

>SASH1\_HUMAN|O94885 : USER001

452 - 458 KKVKSVK

>SATB1\_HUMAN|Q01826 : USER001

583 - 589 HIIHVPA

>SATT\_HUMAN|P43007 : USER001

60 - 66 AALRGLS

>SBK1\_HUMAN|Q52WX2 : USER001

109 - 115 FIIKVFD

>SBNO2\_HUMAN|Q9Y2G9 : USER001

1071 - 1077 YKVRGNK

1159 - 1165 LRLRHHY

>SBP1\_HUMAN|Q13228 : USER001

296 - 302 KKVKGWL

354 - 360 SIVKGGP

>SC16A\_HUMAN|O15027 : USER001

76 - 82 SILHQGP

>SC23A\_HUMAN|Q15436 : USER001

582 - 588 FHLRRSS

>SC23B\_HUMAN|Q15437 : USER001

584 - 590 FHLRRSP

>SC24C\_HUMAN|P53992 : USER001

543 - 549 SAIRVGF

822 - 828 LRIHNLA

854 - 860 FAYRGVL

>SC24D\_HUMAN|O94855 : USER001

481 - 487 SAIRVGF

578 - 584 FIFHSSL

792 - 798 SAFKAVL

>SC65\_HUMAN|Q92791 : USER001

63 - 69 LRLHRL

>SC6A1\_HUMAN|P30531 : USER001

557 - 563 LALKGSL

>SC6A3\_HUMAN|Q01959 : USER001

222 - 228 LHLHQSH

>SCAM1\_HUMAN|O15126 : USER001

283 - 289 KKVHGLY

>SCAM2\_HUMAN|O15127 : USER001

113 - 119 LHVRQNN

>SCAM3\_HUMAN|O14828 : USER001

298 - 304 KRIHSLY

>SCAPE\_HUMAN|Q9BY12 : USER001

808 - 814 SHVKGRK

1226 - 1232 AALHLPA

>SCAP\_HUMAN|Q12770 : USER001

502 - 508 KRLRVVY

>SCAR3\_HUMAN|Q6AZY7 : USER001

218 - 224 AAVHQIN

>SCLT1\_HUMAN|Q96NL6 : USER001

226 - 232 KKLQAK

329 - 335 AIVRARN

>SCLY\_HUMAN|Q96I15 : USER001

341 - 347 KRIHLNS

>SCMC1\_HUMAN|Q6NUK1 : USER001

93 - 99 LAFKSLD

>SCMC2\_HUMAN|Q6KCM6 : USER001

81 - 87 KKLRLVF

>SCMH1\_HUMAN|Q96GD3 : USER001

86 - 92 ARLRLRL

>SCML2\_HUMAN|Q9UQR0 : USER001  
91 - 97 ARLRLRL

>SCN1A\_HUMAN|P35498 : USER001  
98 - 104 AIFRFSA

>SCN3A\_HUMAN|Q9NY46 : USER001  
98 - 104 AIFRFSA

>SCN4A\_HUMAN|P35499 : USER001  
101 - 107 AIFRFSA  
1405 - 1411 LALRQYY

>SCN5A\_HUMAN|Q14524 : USER001  
585 - 591 HALHGKK  
1580 - 1586 AALRHYY

>SCN7A\_HUMAN|Q01118 : USER001  
1639 - 1645 YRLRRND

>SCN8A\_HUMAN|Q9UQD0 : USER001  
527 - 533 KAFRLPD  
1574 - 1580 FALRHYY

>SCN9A\_HUMAN|Q15858 : USER001  
1009 - 1015 FILKAFS

>SCNAA\_HUMAN|Q9Y5Y9 : USER001  
1528 - 1534 FALRQYY

>SCNBA\_HUMAN|Q9UI33 : USER001  
1418 - 1424 FALRQYY

>SCNM1\_HUMAN|Q9BWG6 : USER001  
116 - 122 SALHRAP

>SCNNB\_HUMAN|P51168 : USER001  
106 - 112 SKIKHLL  
470 - 476 WIFHVLS

>SCNND\_HUMAN|P51172 : USER001  
201 - 207 SRVRVGF

>SCNNG\_HUMAN|Q96TD2 : USER001  
607 - 613 SALHLPP

>SCO2\_HUMAN|O43819 : USER001  
31 - 37 LHLRSWL  
259 - 265 AAFRSVL

>SCOT2\_HUMAN|Q9BYC2 : USER001  
2 - 8 AALRLLA

>SCOT\_HUMAN|P55809 : USER001  
2 - 8 AALKLLS

>SCRB1\_HUMAN|Q8WTV0 : USER001  
229 - 235 SRIHLVD

>SCRB2\_HUMAN|Q14108 : USER001  
293 - 299 FRYKVPA

>SCRT1\_HUMAN|Q9BWW7 : USER001  
313 - 319 FALKSYL

>SCRT2\_HUMAN|Q9NQ03 : USER001  
277 - 283 FALKSYL

>SCTIN\_HUMAN|Q8N114 : USER001  
91 - 97 SALRFRP

>SCTM1\_HUMAN|Q8WVN6 : USER001  
192 - 198 AALRAGA

>SCTR\_HUMAN|P47872 : USER001  
185 - 191 FILRALS  
335 - 341 SHYKRLA

>SCUB2\_HUMAN|Q9NQ36 : USER001  
275 - 281 KRVKRRL

>SCYL2\_HUMAN|Q6P3W7 : USER001  
502 - 508 LAVRVNS

>SDA1\_HUMAN|Q9NVU7 : USER001  
449 - 455 KKFRGKP

>SDCB1\_HUMAN|O00560 : USER001  
127 - 133 LRLKSID  
211 - 217 FIFKNGK

>SDCG1\_HUMAN|O60524 : USER001  
1009 - 1015 YKYKVKL

>SDF1\_HUMAN|P48061 : USER001  
61 - 67 ARLKNNN

>SDF2L\_HUMAN|Q9HCN8 : USER001  
49 - 55 HRVRLHS  
82 - 88 WRIRGGS  
158 - 164 AAVRFQH

>SDF2\_HUMAN|Q99470 : USER001  
70 - 76 WRIRGKS

>SDK1\_HUMAN|Q7Z5N4 : USER001  
714 - 720 WKVHLSN  
1328 - 1334 HIVRGNH  
1448 - 1454 YIFRLSA  
1549 - 1555 YKLRLKA

>SDK2\_HUMAN|Q58EX2 : USER001  
582 - 588 LRVRQLP  
1445 - 1451 WALHSAS  
1470 - 1476 YKFRVKA  
1949 - 1955 LIIRGQS

>SDOS\_HUMAN|Q9BRJ7 : USER001  
128 - 134 SAVHSRD  
175 - 181 FALKVLN

>SE1L1\_HUMAN|Q9UBV2 : USER001  
629 - 635 ARIKLGD

>SEBOX\_HUMAN|Q9HB31 : USER001  
104 - 110 KIIKNRK

>SEBP2\_HUMAN|Q96T21 : USER001  
682 - 688 KHLKLLK

>SEC63\_HUMAN|Q9UGP8 : USER001  
59 - 65 YRLRLK  
89 - 95 LAYKVSK

>SEGN\_HUMAN|O76038 : USER001  
60 - 66 HKVKQQF

>SEHL2\_HUMAN|Q9H4I8 : USER001  
244 - 250 KAVHGYF

>SELB\_HUMAN|P57772 : USER001  
62 - 68 ARLRSSL  
444 - 450 LAFHGIL  
470 - 476 YKLKHKH

>SELW\_HUMAN|P63302 : USER001  
3 - 9 LAVRVVY  
78 - 84 AAIKAAL

>SEM3C\_HUMAN|Q99985 : USER001  
570 - 576 KAYRNAA

>SEM3D\_HUMAN|O95025 : USER001  
350 - 356 SIFKGS

>SEM3E\_HUMAN|O15041 : USER001  
47 - 53 SIFHSPF  
757 - 763 KKLRSKP

>SEM4D\_HUMAN|Q92854 : USER001  
765 - 771 LKFRSAL

>SEM5A\_HUMAN|Q13591 : USER001  
430 - 436 KKVRVPL

>SEM7A\_HUMAN|O75326 : USER001  
29 - 35 LRLRLLL

>SEN34\_HUMAN|Q9BSV6 : USER001  
252 - 258 LRFHAHY

>SENP1\_HUMAN|Q9P0U3 : USER001  
388 - 394 LHLRVPL

>SENP2\_HUMAN|Q9HC62 : USER001  
327 - 333 ARLRLGS

>SENP5\_HUMAN|Q96HI0 : USER001  
94 - 100 SKVKRKD

>SENP6\_HUMAN|Q9GZR1 : USER001  
909 - 915 SKIRLNY

>SENP7\_HUMAN|Q9BQF6 : USER001  
970 - 976 LILKLHL

>SEP10\_HUMAN|Q9P0V9 : USER001  
158 - 164 LKIKRSL

>SEP11\_HUMAN|Q9NVA2 : USER001  
133 - 139 LKIKRSL

>SEP14\_HUMAN|Q6ZU15 : USER001  
144 - 150 LKIKRSL

>SEPP1\_HUMAN|P49908 : USER001  
72 - 78 LRVKLKK

>SEPT2\_HUMAN|Q15019 : USER001  
209 - 215 KIYHLPD  
251 - 257 KKVRGRL

>SEPT5\_HUMAN|Q99719 : USER001  
5 - 11 LRYKSKL

>SEPT6\_HUMAN|Q14141 : USER001  
134 - 140 LKIRRVL

>SEPT8\_HUMAN|Q92599 : USER001  
136 - 142 LKIRRS�

>SEPT9\_HUMAN|Q9UHD8 : USER001  
560 - 566 YRVKRLN

>SERC1\_HUMAN|Q9NRX5 : USER001  
119 - 125 AAVHNGF

>SERC3\_HUMAN|Q13530 : USER001  
127 - 133 AAVHNGF

>SESN3\_HUMAN|P58005 : USER001  
198 - 204 AHYHALA

>SET1B\_HUMAN|Q9UPS6 : USER001  
344 - 350 AAFRGSS

>SETB1\_HUMAN|Q15047 : USER001  
228 - 234 KKYKVKF

>SETB2\_HUMAN|Q96T68 : USER001  
185 - 191 SALHVSY

>SETD3\_HUMAN|Q86TU7 : USER001  
477 - 483 KAVKSAA

>SETD4\_HUMAN|Q9NVD3 : USER001  
9 - 15 SRIRRRK  
423 - 429 KILRASA

>SETD5\_HUMAN|Q9C0A6 : USER001  
186 - 192 KKIKNSP

>SETD7\_HUMAN|Q8WTS6 : USER001  
104 - 110 LIFKGQY

>SETMR\_HUMAN|Q53H47 : USER001



466 - 472 LILRNHN  
>SETX\_HUMAN|Q8WX33 : USER001  
2461 - 2467 KILKLKP  
>SF01\_HUMAN|Q9BW01 : USER001  
461 - 467 YRLHQGK  
>SF04\_HUMAN|Q8IWZ8 : USER001  
628 - 634 LAYRFRP  
>SF3A3\_HUMAN|Q12874 : USER001  
397 - 403 YKLHGLN  
460 - 466 AKLKLQK  
>SF3B1\_HUMAN|O75533 : USER001  
945 - 951 AKVRQQA  
>SF3B3\_HUMAN|Q15393 : USER001  
16 - 22 FAIHGNF  
>SF3B5\_HUMAN|Q9BWJ5 : USER001  
62 - 68 ARVRFNL  
>SFR14\_HUMAN|Q8IX01 : USER001  
138 - 144 FALRGSW  
>SFR15\_HUMAN|O95104 : USER001  
32 - 38 AAIKAIK  
35 - 41 KAIKLYK  
109 - 115 KIVRVLN  
>SFR16\_HUMAN|Q8N2M8 : USER001  
262 - 268 KRLRGRK  
>SFRIP\_HUMAN|Q99590 : USER001  
477 - 483 SRFHSPS  
>SFRP3\_HUMAN|Q92765 : USER001  
284 - 290 KKVKRWD  
>SG1D1\_HUMAN|O95968 : USER001  
47 - 53 AKFKAPL  
>SG269\_HUMAN|Q9H792 : USER001  
639 - 645 AIYKSFL  
1375 - 1381 LAVRQSL  
>SG3A1\_HUMAN|Q96QR1 : USER001  
91 - 97 KALKALL  
>SG494\_HUMAN|Q96LW2 : USER001  
133 - 139 FAVKVVP  
>SGCB\_HUMAN|Q16585 : USER001  
108 - 114 LRFKQVS  
>SGEF\_HUMAN|Q9UFW5 : USER001  
241 - 247 AALKVVGK  
>SGF29\_HUMAN|Q96ES7 : USER001  
164 - 170 ARVKAVD

>SGK69\_HUMAN|P0C263 : USER001  
88 - 94 LALKQLP

>SGK71\_HUMAN|Q8NE28 : USER001  
78 - 84 LKLRHAH

>SGK85\_HUMAN|Q86YV6 : USER001  
364 - 370 HKLHSRL

>SGOL1\_HUMAN|Q9BVA8 : USER001  
97 - 103 YALKGKL  
491 - 497 SKLRRGD

>SGOL2\_HUMAN|Q562F6 : USER001  
96 - 102 LRLKLNN  
1134 - 1140 KAFRSLS

>SGPL1\_HUMAN|O95470 : USER001  
255 - 261 KIVRVPL

>SGSM1\_HUMAN|Q2NKQ1 : USER001  
124 - 130 LAIKHLW  
204 - 210 HRIHSSH

>SGSM2\_HUMAN|O43147 : USER001  
205 - 211 HRIRGPP

>SH24A\_HUMAN|Q9H788 : USER001  
194 - 200 YAFHQKK

>SH2B2\_HUMAN|O14492 : USER001  
105 - 111 SALKAAS  
465 - 471 KHLRLSL

>SH2B3\_HUMAN|Q9UQQ2 : USER001  
144 - 150 HIFRRRS  
222 - 228 LALRRAP  
412 - 418 KHLRLSL  
563 - 569 SHLRAID

>SH2D3\_HUMAN|Q8N5H7 : USER001  
10 - 16 KKFKFFK

>SH2D5\_HUMAN|Q6ZV89 : USER001  
3 - 9 HALRRIL

>SH3K1\_HUMAN|Q96B97 : USER001  
645 - 651 KKIRLRL

>SH3R2\_HUMAN|Q8TEC5 : USER001  
591 - 597 ARIHSAA

>SHAN1\_HUMAN|Q9Y566 : USER001  
1755 - 1761 SKLRGRA

>SHBG\_HUMAN|P04278 : USER001  
151 - 157 LRLRQVS

>SHC1\_HUMAN|P29353 : USER001  
310 - 316 LRFKQYL

>SHC2\_HUMAN|P98077 : USER001  
269 - 275 LRFKQYL

>SHC3\_HUMAN|Q92529 : USER001  
72 - 78 SHLKLSS  
303 - 309 LRFKQYL

>SHCBP\_HUMAN|Q8NEM2 : USER001  
448 - 454 LIVHRGK

>SHKB1\_HUMAN|Q8TBC3 : USER001  
245 - 251 ARVHGGA

>SHOX2\_HUMAN|O60902 : USER001  
318 - 324 LRLKAKK

>SHOX\_HUMAN|O15266 : USER001  
279 - 285 LRLKARK

>SHPRH\_HUMAN|Q8NBR7 : USER001  
329 - 335 SALHFLW  
955 - 961 WALKLSS

>SHRM1\_HUMAN|Q2M3G4 : USER001  
139 - 145 AAYRQRL  
724 - 730 ARVRRAL

>SHRM3\_HUMAN|Q8TF72 : USER001  
146 - 152 LRLKHRS

>SHRM4\_HUMAN|Q9ULL8 : USER001  
86 - 92 LIVRRRN  
268 - 274 KAVRGPP  
1213 - 1219 FALHSSD

>SI1L1\_HUMAN|O43166 : USER001  
1558 - 1564 FKFHALS

>SI1L2\_HUMAN|Q9P2F8 : USER001  
651 - 657 SKYRAQL

>SI1L3\_HUMAN|O60292 : USER001  
136 - 142 KAFHRLS

>SIA10\_HUMAN|Q9Y274 : USER001  
55 - 61 LRFHQFH

>SIA4B\_HUMAN|Q16842 : USER001  
46 - 52 HRVKLVP

>SIA4C\_HUMAN|Q11206 : USER001  
127 - 133 HRLRNSS

>SIA7B\_HUMAN|Q9UJ37 : USER001  
270 - 276 SKFKLLH

>SIA8A\_HUMAN|Q92185 : USER001  
190 - 196 SIIRQRF

>SIA8B\_HUMAN|Q92186 : USER001  
277 - 283 HAVRGYW

353 - 359 KALKSLH

>SIA8C\_HUMAN|O43173 : USER001

63 - 69 FALKFLD

>SIA8D\_HUMAN|Q92187 : USER001

243 - 249 LILKNKL

262 - 268 HAVRGYW

>SIAE\_HUMAN|Q9HAT2 : USER001

386 - 392 YRLHLGA

>SIAT9\_HUMAN|Q9UNP4 : USER001

25 - 31 YILKLNK

>SIDT1\_HUMAN|Q9NXL6 : USER001

633 - 639 SAIHVLA

>SIG11\_HUMAN|Q96RL6 : USER001

125 - 131 SRVRHSF

>SIG15\_HUMAN|Q6ZMC9 : USER001

253 - 259 FRFHGAS

>SIGL5\_HUMAN|O15389 : USER001

396 - 402 LILHGGL

>SIGL6\_HUMAN|O43699 : USER001

110 - 116 FRLKSKW

>SIGL8\_HUMAN|Q9NYZ4 : USER001

407 - 413 KAIRGSA

>SIL1\_HUMAN|Q9H173 : USER001

89 - 95 SHVRLNL

>SIM1\_HUMAN|P81133 : USER001

189 - 195 LKIRQYS

>SIM2\_HUMAN|Q14190 : USER001

636 - 642 LRLRHPS

>SIN1\_HUMAN|Q9BPZ7 : USER001

12 - 18 AHIRQSH

307 - 313 KAVKRRK

381 - 387 HHYKSFK

>SIN3A\_HUMAN|Q96ST3 : USER001

79 - 85 AAVHSSH

793 - 799 LIIHHVK

1204 - 1210 KRLHQRF

>SIN3B\_HUMAN|O75182 : USER001

617 - 623 KALRSKS

834 - 840 LRLKQPS

1020 - 1026 KKFRRRW

>SIRT6\_HUMAN|Q9UQD1 : USER001

118 - 124 LHVRSGF

346 - 352 KRVKAKA

>SIRT7\_HUMAN|Q9NRC8 : USER001  
94 - 100 SAVRNAK  
172 - 178 LHLRSL  
>SIX1\_HUMAN|Q15475 : USER001  
109 - 115 YRVRRKF  
>SIX2\_HUMAN|Q9NPC8 : USER001  
109 - 115 YRVRRKF  
>SIX3\_HUMAN|O95343 : USER001  
130 - 136 SILRARA  
>SIX4\_HUMAN|Q9UIU6 : USER001  
187 - 193 YRLRRKF  
>SK2L2\_HUMAN|P42285 : USER001  
627 - 633 YKIRQQL  
>SKA1\_HUMAN|Q96BD8 : USER001  
177 - 183 KILHQPK  
226 - 232 KKFHVLL  
>SKIP\_HUMAN|Q9BT40 : USER001  
273 - 279 WRLKRQP  
>SKIV2\_HUMAN|Q15477 : USER001  
609 - 615 ARLRGS  
>SKT\_HUMAN|Q6MZZ6 : USER001  
1455 - 1461 SAYKRLS  
1571 - 1577 KKFKFKF  
1573 - 1579 FKFKFK  
>SL9A1\_HUMAN|P19634 : USER001  
633 - 639 KILRNNL  
>SL9A7\_HUMAN|Q96T83 : USER001  
596 - 602 WIFRLWY  
>SL9A8\_HUMAN|Q9Y2E8 : USER001  
78 - 84 YRLHFLP  
>SL9A9\_HUMAN|Q8IVB4 : USER001  
44 - 50 HRFRFLH  
>SLAF7\_HUMAN|Q9NQ25 : USER001  
43 - 49 SKVKQVD  
>SLAI2\_HUMAN|Q9P270 : USER001  
179 - 185 SALKRQN  
>SLBP\_HUMAN|Q14493 : USER001  
93 - 99 ARYKRKL  
>SLC2B\_HUMAN|Q8NEV8 : USER001  
518 - 524 SAIHGHN  
>SLIK1\_HUMAN|Q96PX8 : USER001  
641 - 647 FILRNRK  
>SLIK2\_HUMAN|Q9H156 : USER001

113 - 119 KRLHLNN  
247 - 253 FRLHGKD  
>SLIK3\_HUMAN|O94933 : USER001  
125 - 131 KILKRLY  
265 - 271 FHFHGKD  
>SLIK4\_HUMAN|Q8IW52 : USER001  
107 - 113 SALKQLH  
>SLIK5\_HUMAN|O94991 : USER001  
108 - 114 SILHLGS  
268 - 274 FRLHGRD  
826 - 832 HHLRSPA  
>SLIT1\_HUMAN|O75093 : USER001  
210 - 216 FRLHSNH  
750 - 756 KHLRALP  
1501 - 1507 LRLKRRK  
>SLIT2\_HUMAN|O94813 : USER001  
44 - 50 LALRSVP  
204 - 210 FRLHSNN  
240 - 246 SHLRGHN  
324 - 330 KKLRRID  
>SLIT3\_HUMAN|O75094 : USER001  
10 - 16 AAVRARL  
210 - 216 LRLHSNH  
331 - 337 KKLKRID  
>SLK\_HUMAN|Q9H2G2 : USER001  
8 - 14 KIFKLGS  
>SLN12\_HUMAN|Q8IYM2 : USER001  
536 - 542 KALKRLK  
>SMAD7\_HUMAN|O15105 : USER001  
64 - 70 KAVRGAK  
>SMAD9\_HUMAN|O15198 : USER001  
158 - 164 AKFRSAS  
>SMAP1\_HUMAN|Q8IYB5 : USER001  
68 - 74 SRVKSVN  
>SMAP2\_HUMAN|Q8WU79 : USER001  
63 - 69 SRVKSVN  
>SMBP2\_HUMAN|P38935 : USER001  
156 - 162 KKYHSGP  
210 - 216 AIIHGPP  
756 - 762 LRVHQIA  
>SMBT1\_HUMAN|Q9UHIJ3 : USER001  
233 - 239 SAIRHLK  
576 - 582 AKYKGKS

>SMC1A\_HUMAN|Q14683 : USER001  
373 - 379 KKYHRLK  
419 - 425 AKIKQKL  
1142 - 1148 FAIHSYK  
>SMC1B\_HUMAN|Q8NDV3 : USER001  
233 - 239 KKIHLN  
997 - 1003 AHLRLLL  
>SMC2\_HUMAN|O95347 : USER001  
272 - 278 KKIKALN  
>SMC3\_HUMAN|Q9UQE7 : USER001  
137 - 143 YIVKQGK  
621 - 627 KAFKHVF  
1164 - 1170 LAVHAQF  
>SMC4\_HUMAN|Q9NTJ3 : USER001  
1205 - 1211 FALHHYK  
>SMC5\_HUMAN|Q8IY18 : USER001  
531 - 537 KKL RVNA  
>SMC7L\_HUMAN|Q9NQG6 : USER001  
347 - 353 ARLRALD  
>SMCA1\_HUMAN|P28370 : USER001  
226 - 232 KHYNIP  
941 - 947 ARYKAPF  
>SMCA2\_HUMAN|P51531 : USER001  
377 - 383 KALRLLN  
409 - 415 KAYKRSK  
929 - 935 LIIRRLH  
1082 - 1088 FAFRNFL  
>SMCA4\_HUMAN|P51532 : USER001  
405 - 411 KALRLLN  
437 - 443 KAYKRSK  
963 - 969 LIIRRLH  
1116 - 1122 FAYRGFK  
1517 - 1523 HKYRSLN  
>SMCA5\_HUMAN|O60264 : USER001  
223 - 229 KHYNIP  
>SMCE1\_HUMAN|Q969G3 : USER001  
131 - 137 KAYHNSP  
>SMCR7\_HUMAN|Q96C03 : USER001  
340 - 346 ARLRALD  
>SMF\_HUMAN|Q12766 : USER001  
70 - 76 LRLRQGS  
217 - 223 ARVRQPS  
>SMG1\_HUMAN|Q96Q15 : USER001

649 - 655 LAVHFPA  
3610 - 3616 KRVKAKL  
>SMG5\_HUMAN|Q9UPR3 : USER001  
99 - 105 KHIHSRS  
933 - 939 HKLKRQD  
>SMN\_HUMAN|Q16637 : USER001  
52 - 58 HALKNGD  
>SMO\_HUMAN|Q99835 : USER001  
397 - 403 YRYRAGF  
>SMRC1\_HUMAN|Q92922 : USER001  
263 - 269 WKVHVKW  
>SMRC2\_HUMAN|Q8TAQ2 : USER001  
96 - 102 AAYKFKS  
529 - 535 SHFHVLA  
869 - 875 AAVKAKH  
>SMRCD\_HUMAN|Q9H4L7 : USER001  
718 - 724 FILRRVK  
>SMTN\_HUMAN|Q9UIT1 : USER001  
910 - 916 LRLRGKN  
>SMYD2\_HUMAN|Q9NRG4 : USER001  
154 - 160 AALHHFY  
309 - 315 KHYKSPS  
>SN1L1\_HUMAN|P57059 : USER001  
584 - 590 KAFRQQL  
>SNAB\_HUMAN|Q9H115 : USER001  
19 - 25 KRVKASH  
>SNAT\_HUMAN|Q16613 : USER001  
119 - 125 AHLHVLA  
124 - 130 LAVHRAF  
>SNCAP\_HUMAN|Q9Y6H5 : USER001  
317 - 323 KKVKSIL  
459 - 465 SAVHVAS  
618 - 624 KILRQLL  
797 - 803 SALKSPS  
>SND1\_HUMAN|Q7KZF4 : USER001  
538 - 544 SRLKLYL  
757 - 763 AKIHVFY  
>SNF8\_HUMAN|Q96H20 : USER001  
109 - 115 LALKHRN  
>SNPC1\_HUMAN|Q16533 : USER001  
263 - 269 AKIKSKA  
>SNPC4\_HUMAN|Q5SXM2 : USER001  
733 - 739 HALHRRL



>SNPC5\_HUMAN|O75971 : USER001  
16 - 22 LRLKAAL

>SNRK\_HUMAN|Q9NRH2 : USER001  
131 - 137 HKLHV VH  
524 - 530 KRYHRRK

>SNTA1\_HUMAN|Q13424 : USER001  
116 - 122 KIFKGLA  
488 - 494 FIIHSFL

>SNTB1\_HUMAN|Q13884 : USER001  
141 - 147 KIFKGLA  
521 - 527 FIIHSFL

>SNTG1\_HUMAN|Q9NSN8 : USER001  
25 - 31 FKVRLHL  
448 - 454 SKIKFLF

>SNTG2\_HUMAN|Q9NY99 : USER001  
321 - 327 LALKGPS

>SNUT1\_HUMAN|O43290 : USER001  
370 - 376 AKLRLQA  
659 - 665 ARVKAPN

>SNUT2\_HUMAN|Q53GS9 : USER001  
514 - 520 YRIHVLH

>SNX12\_HUMAN|Q9UMY4 : USER001  
96 - 102 KALKRQL

>SNX14\_HUMAN|Q9Y5W7 : USER001  
448 - 454 SKIKGVF  
644 - 650 KIIKSVP

>SNX19\_HUMAN|Q92543 : USER001  
723 - 729 SRLRFSS

>SNX1\_HUMAN|Q13596 : USER001  
181 - 187 FAVKRRF  
404 - 410 AIVRAAF

>SNX21\_HUMAN|Q969T3 : USER001  
16 - 22 HRLRHAL  
198 - 204 KRLRRNF  
328 - 334 AHVRLSW

>SNX22\_HUMAN|Q96L94 : USER001  
105 - 111 LRLRHFP

>SNX23\_HUMAN|Q9BQJ8 : USER001  
246 - 252 SKIHLVD

>SNX27\_HUMAN|Q96D79 : USER001  
201 - 207 AILHQNL

>SNX2\_HUMAN|O60749 : USER001  
401 - 407 AAVKGVF

>SNX4\_HUMAN|O95219 : USER001  
202 - 208 SRLKALN  
211 - 217 FRVKNPD  
252 - 258 YKVHGNY  
>SNX5\_HUMAN|Q9Y5X3 : USER001  
16 - 22 SKLRSVS  
329 - 335 ARLKSKD  
>SNX9\_HUMAN|Q9Y5X1 : USER001  
285 - 291 HRYKHFD  
>SO1A2\_HUMAN|P46721 : USER001  
606 - 612 AALRGSS  
>SO1B1\_HUMAN|Q9Y6L6 : USER001  
89 - 95 SKLHRPK  
>SO1B3\_HUMAN|Q9NPD5 : USER001  
89 - 95 SKLHRPK  
398 - 404 KKFKLSL  
>SO1C1\_HUMAN|Q9NYB5 : USER001  
104 - 110 AKLHRPK  
594 - 600 LAIRVLA  
>SO2B1\_HUMAN|O94956 : USER001  
433 - 439 KRLHLGP  
585 - 591 LILRGVK  
>SO4A1\_HUMAN|Q96BD0 : USER001  
447 - 453 LRLRGSA  
>SO5A1\_HUMAN|Q9H2Y9 : USER001  
494 - 500 KKLKLGA  
>SO6A1\_HUMAN|Q86UG4 : USER001  
689 - 695 FIYKRRL  
>SOAT1\_HUMAN|P35610 : USER001  
442 - 448 KRFKSA  
>SOAT\_HUMAN|Q3KNW5 : USER001  
60 - 66 SHIRRPW  
>SOBP\_HUMAN|A7XYQ1 : USER001  
866 - 872 LRIRNQN  
>SOCS2\_HUMAN|O14508 : USER001  
114 - 120 SKLKQFD  
>SODE\_HUMAN|P08294 : USER001  
157 - 163 WRYRAGL  
>SOLO\_HUMAN|Q8TER5 : USER001  
822 - 828 LRFRAFS  
906 - 912 LALRRAP  
>SOMA\_HUMAN|P01241 : USER001  
44 - 50 HRLHQLA

>SON\_HUMAN|Q9UPY0 : USER001  
127 - 133 KKYKRQP

>SORC2\_HUMAN|Q96PQ0 : USER001  
501 - 507 LHLHLRW

>SORC3\_HUMAN|Q9UPU3 : USER001  
548 - 554 LHLHLQL

>SORL\_HUMAN|Q92673 : USER001  
911 - 917 AAYHLVS  
982 - 988 SIFRASK  
1980 - 1986 YKVKSRN

>SORT\_HUMAN|Q99523 : USER001  
460 - 466 LHIHASY

>SOS1\_HUMAN|Q07889 : USER001  
917 - 923 AKLRSIN

>SOS2\_HUMAN|Q07890 : USER001  
733 - 739 KIIRKK

>SOX10\_HUMAN|P56693 : USER001  
205 - 211 AHYKSAH

>SOX13\_HUMAN|Q9UN79 : USER001  
647 - 653 KAVHLAD

>SOX14\_HUMAN|O95416 : USER001  
62 - 68 KRLRAQH

>SOX15\_HUMAN|O60248 : USER001  
103 - 109 KRLRARH

>SOX17\_HUMAN|Q9H6I2 : USER001  
291 - 297 SALHVYY

>SOX1\_HUMAN|O00570 : USER001  
105 - 111 KRLRALH  
362 - 368 SRLHSLP

>SOX2\_HUMAN|P48431 : USER001  
95 - 101 KRLRALH

>SOX30\_HUMAN|O94993 : USER001  
131 - 137 LALHVKA  
133 - 139 LHVKAKK  
348 - 354 ARIHRPA

>SOX3\_HUMAN|P41225 : USER001  
193 - 199 KRLRAVH

>SOX4\_HUMAN|Q06945 : USER001  
132 - 138 KKVKSGN  
291 - 297 KKVKRKY

>SP100\_HUMAN|P23497 : USER001  
55 - 61 KHFKRKN

>SP110\_HUMAN|Q9HB58 : USER001

310 - 316 KKLKRVD  
>SP130\_HUMAN|Q9H0E3 : USER001  
212 - 218 SIIRSNA  
>SP16H\_HUMAN|Q9Y5B9 : USER001  
720 - 726 LHFHLKN  
850 - 856 FHLKNFD  
>SP1\_HUMAN|P08047 : USER001  
641 - 647 SHLRAHL  
>SP3\_HUMAN|Q02447 : USER001  
593 - 599 KRLRRVA  
636 - 642 SHLRAHL  
>SP4\_HUMAN|Q02446 : USER001  
618 - 624 KRLRRVA  
662 - 668 SHLRAHL  
>SP5\_HUMAN|Q6BEB4 : USER001  
311 - 317 SHLKAHL  
>SP6\_HUMAN|Q3SY56 : USER001  
269 - 275 SHLKAHL  
>SP7\_HUMAN|Q8TDD2 : USER001  
309 - 315 SHLKAHL  
>SP8\_HUMAN|Q8IXZ3 : USER001  
389 - 395 SHLKAHL  
>SPA11\_HUMAN|Q86U17 : USER001  
57 - 63 FALRLYK  
>SPA2L\_HUMAN|Q8IUW3 : USER001  
84 - 90 AAVHLYL  
219 - 225 AAYRAPL  
344 - 350 SAYRSVS  
>SPA9\_HUMAN|Q86WD7 : USER001  
108 - 114 SAIHQGF  
374 - 380 FIVRSKD  
>SPAG5\_HUMAN|Q96R06 : USER001  
551 - 557 KKLRAKL  
>SPAG6\_HUMAN|O75602 : USER001  
402 - 408 KAIKNIL  
>SPAT4\_HUMAN|Q8NEY3 : USER001  
121 - 127 KKFCLPK  
>SPAT6\_HUMAN|Q9NWH7 : USER001  
165 - 171 FIYHLAP  
>SPAT9\_HUMAN|Q9BWV2 : USER001  
167 - 173 KKVKNIF  
>SPB10\_HUMAN|P48595 : USER001  
120 - 126 YAFHINKY

>SPB5\_HUMAN|P36952 : USER001  
356 - 362 YIIRHNK

>SPB9\_HUMAN|P50453 : USER001  
11 - 17 FAIRLLK

>SPCS2\_HUMAN|Q15005 : USER001  
54 - 60 SAVKNSL

>SPD2A\_HUMAN|Q5TCZ1 : USER001  
246 - 252 AHLRRLD

>SPD2B\_HUMAN|A1X283 : USER001  
40 - 46 AIYRRYS

>SPDYC\_HUMAN|Q5MJ68 : USER001  
254 - 260 SRVKNW

>SPEC1\_HUMAN|Q86XT8 : USER001  
48 - 54 SRLKRAS

>SPEF2\_HUMAN|Q9C093 : USER001  
534 - 540 HILHRLA

>SPEG\_HUMAN|Q15772 : USER001  
668 - 674 KRLRRGP  
1355 - 1361 HIFRVLS  
2586 - 2592 FHIKLD

>SPEM1\_HUMAN|Q8N4L4 : USER001  
51 - 57 SRFRGVL

>SPG16\_HUMAN|Q8N0X2 : USER001  
172 - 178 KHYKQAA  
342 - 348 YKLKNIF

>SPG7\_HUMAN|Q9UQ90 : USER001  
104 - 110 SRLKQKN  
388 - 394 ARVRSLF

>SPI2\_HUMAN|O75830 : USER001  
133 - 139 SAIKLD

>SPIR2\_HUMAN|Q8WWL2 : USER001  
104 - 110 AIYRALD

>SPKAP\_HUMAN|Q2M3C7 : USER001  
1076 - 1082 SRLKASS  
1581 - 1587 KILKGQS

>SPN90\_HUMAN|Q9NZQ3 : USER001  
685 - 691 AILRRIL

>SPNS2\_HUMAN|Q8IVW8 : USER001  
261 - 267 WALRVSP

>SPO11\_HUMAN|Q9Y5K1 : USER001  
341 - 347 SILRRPY

>SPOC1\_HUMAN|Q6ZMY3 : USER001  
877 - 883 KRFRARA

>SPON2\_HUMAN|Q9BUD6 : USER001  
242 - 248 LRLRQSP

>SPOPL\_HUMAN|Q6IQ16 : USER001  
100 - 106 AKFKFSL

>SPRE2\_HUMAN|Q7Z698 : USER001  
12 - 18 YIVRVKA

>SPRN\_HUMAN|Q5BIV9 : USER001  
47 - 53 SRVRVRP

>SPRY3\_HUMAN|Q8NCJ5 : USER001  
20 - 26 LHYRFLN

>SPS2L\_HUMAN|Q9NUQ6 : USER001  
251 - 257 KKIKAAF

>SPSB1\_HUMAN|Q96BD6 : USER001  
73 - 79 LIFHRHP

>SPT16\_HUMAN|Q0R2U2 : USER001  
80 - 86 AAFKRKA

>SPT18\_HUMAN|Q8TC71 : USER001  
353 - 359 FKIHV RK

>SPT20\_HUMAN|Q8TB22 : USER001  
599 - 605 WALRLQD

>SPT5H\_HUMAN|O00267 : USER001  
330 - 336 KKFKRPP

>SPT6H\_HUMAN|Q9BTH9 : USER001  
319 - 325 WIYRNAF  
1002 - 1008 KILKQNN  
1599 - 1605 SAYHVFP

>SPTA1\_HUMAN|P02549 : USER001  
872 - 878 SRVKSLN  
956 - 962 KALRNQA  
1483 - 1489 KALKAQL  
2023 - 2029 SAVHRQK

>SPTA2\_HUMAN|Q9P0V0 : USER001  
1764 - 1770 HRLHQFF  
2411 - 2417 SAFRALS

>SPTB1\_HUMAN|P11277 : USER001  
43 - 49 SRIKALA

>SPTB2\_HUMAN|Q01082 : USER001  
43 - 49 SRIKALA  
2275 - 2281 FKLRLND

>SPTC1\_HUMAN|O15269 : USER001  
34 - 40 WIIRLLF

>SPTC2\_HUMAN|O15270 : USER001  
335 - 341 KKYKAYL

>SPTC3\_HUMAN|Q9NUV7 : USER001  
327 - 333 KKYKAYL  
390 - 396 LRVHSHS

>SPTCS\_HUMAN|Q96JI7 : USER001  
183 - 189 AAIRVLN  
1374 - 1380 FIIHSQL

>SPTN2\_HUMAN|O15020 : USER001  
46 - 52 SRIKALA  
374 - 380 SKLRANN

>SPTN4\_HUMAN|Q9H254 : USER001  
50 - 56 SRIKALA  
870 - 876 AALRRQW  
1057 - 1063 ARLHQGA  
1934 - 1940 ARLHVSS

>SPTN5\_HUMAN|Q9NRC6 : USER001  
2143 - 2149 HALHASL

>SPX2\_HUMAN|Q8TED4 : USER001  
44 - 50 SIVKSRL

>SPY1\_HUMAN|O43609 : USER001  
45 - 51 KAIRGSN

>SRAC1\_HUMAN|Q96JX3 : USER001  
111 - 117 KILRNPF  
334 - 340 SIVRSGW

>SRBP1\_HUMAN|P36956 : USER001  
674 - 680 HKLHQLH  
918 - 924 AALHSFK

>SRBP2\_HUMAN|Q12772 : USER001  
668 - 674 LAYHRLH  
671 - 677 HRLHQLH  
893 - 899 AAVRSHF

>SRBS1\_HUMAN|Q9BX65 : USER001  
821 - 827 YIYKQID

>SRCAP\_HUMAN|Q6ZRS2 : USER001  
189 - 195 AKLRRIA  
2162 - 2168 HIYRLIS

>SRCH\_HUMAN|P23327 : USER001  
176 - 182 HILRHGH

>SRP09\_HUMAN|P49458 : USER001  
29 - 35 LKYRHSD

>SRP54\_HUMAN|P61011 : USER001  
12 - 18 SALRSLS

>SRP68\_HUMAN|Q9UHB9 : USER001  
151 - 157 KRFHLLS

>SRPK1\_HUMAN|Q96SB4 : USER001  
33 - 39 AAVRFPD  
346 - 352 WIKSNY

>SRPK2\_HUMAN|P78362 : USER001  
176 - 182 WIKSNY  
192 - 198 SIIRQVL

>SRPK3\_HUMAN|Q9UPE1 : USER001  
174 - 180 WIKSNY  
190 - 196 SIVRQVL

>SRR35\_HUMAN|Q8WXF0 : USER001  
244 - 250 SHFRSHS

>SRRM2\_HUMAN|Q9P0G1 : USER001  
2048 - 2054 LAIRRRS

>SRR\_HUMAN|Q9GZT4 : USER001  
55 - 61 FKIRGAL  
220 - 226 SKLKGKL

>SRTD1\_HUMAN|Q9UHV2 : USER001  
51 - 57 LKLHHSL

>SRTD3\_HUMAN|Q9UJW9 : USER001  
67 - 73 AALRLAP

>SRTD4\_HUMAN|Q9NUC0 : USER001  
60 - 66 SHYRGIS

>SRXN1\_HUMAN|Q9BYN0 : USER001  
39 - 45 AAVHNVP

>SSDH\_HUMAN|P51649 : USER001  
100 - 106 AAVRAAY

>SSF1\_HUMAN|Q9NQ55 : USER001  
317 - 323 KKLRLKA

>SSFA2\_HUMAN|Q96PW1 : USER001  
661 - 667 HILKSLA

>SSPO\_HUMAN|A2VEC9 : USER001  
2737 - 2743 ARFRSPS

>SSR3\_HUMAN|P32745 : USER001  
318 - 324 YRFKQGF

>SSR4\_HUMAN|P31391 : USER001  
107 - 113 AALRHWP

>SSRG\_HUMAN|Q9UNL2 : USER001  
75 - 81 FAYKNVK  
155 - 161 FILKNFN

>ST18\_HUMAN|O60284 : USER001  
394 - 400 HKVRVPL

>ST1E1\_HUMAN|P49888 : USER001  
173 - 179 KHVKSWW



>ST2A1\_HUMAN|Q06520 : USER001  
213 - 219 LILKNSS

>ST2B1\_HUMAN|O00204 : USER001  
32 - 38 FRYKGVF

>STA13\_HUMAN|Q86XT1 : USER001  
1095 - 1101 ARIRNSF

>STA5A\_HUMAN|P42229 : USER001  
83 - 89 LKIKLGH  
422 - 428 KRIKRAD

>STA5B\_HUMAN|P51692 : USER001  
83 - 89 LKIKLGH  
422 - 428 KRIKRSD

>STAB1\_HUMAN|Q9NY15 : USER001  
1029 - 1035 AAVRQLS  
1769 - 1775 AAFRALP

>STAB2\_HUMAN|Q8WWQ8 : USER001  
475 - 481 LKLHGGK  
529 - 535 SKFRSLL  
1199 - 1205 LRYHVVL  
1659 - 1665 LRYHVVA  
2200 - 2206 FHLRSPL

>STAC3\_HUMAN|Q96MF2 : USER001  
300 - 306 FIIRVRA

>STAG1\_HUMAN|Q8WVM7 : USER001  
172 - 178 KKFRSNF  
290 - 296 SIFKGIF

>STAG2\_HUMAN|Q8N3U4 : USER001  
169 - 175 KKFKSSF  
287 - 293 AIFKGVF

>STAG3\_HUMAN|Q9UJ98 : USER001  
365 - 371 KALKGLY

>STAR3\_HUMAN|Q14849 : USER001  
116 - 122 LRLRHWW  
135 - 141 LIVKVIL

>STAR5\_HUMAN|Q9NSY2 : USER001  
206 - 212 KAVKQFH

>STAR9\_HUMAN|Q9P2P6 : USER001  
33 - 39 AKIRNLK  
468 - 474 YHLKGQW  
1310 - 1316 SKLHQGS  
2281 - 2287 LKIHNSP  
3731 - 3737 SHLRFQK  
4129 - 4135 AKLHHGF

>STAT1\_HUMAN|P42224 : USER001  
144 - 150 SKVRNVK  
358 - 364 LKVKVLF

>STAT2\_HUMAN|P52630 : USER001  
270 - 276 FHLRQLL

>STAU2\_HUMAN|Q9NUL3 : USER001  
514 - 520 SALKQFS

>STB5L\_HUMAN|Q9Y2K9 : USER001  
146 - 152 AILHSLK

>STC2\_HUMAN|O76061 : USER001  
112 - 118 HALRHRF

>STCH\_HUMAN|P48723 : USER001  
196 - 202 KILRVIN

>STEA1\_HUMAN|Q9UHE8 : USER001  
188 - 194 YRYKLLN  
302 - 308 LIFKSIL  
318 - 324 LKIRHGW

>STEA2\_HUMAN|Q8NFT2 : USER001  
141 - 147 LIVKGFN

>STEA3\_HUMAN|Q8TF03 : USER001  
313 - 319 AALHALY  
336 - 342 LAVKQVL  
422 - 428 SRYKFYL  
459 - 465 ARIRRGW

>STEAL\_HUMAN|Q6NZ63 : USER001  
169 - 175 YRYKLLN

>STIL\_HUMAN|Q15468 : USER001  
64 - 70 LAYRHAK  
1278 - 1284 KRLRQLP

>STIM2\_HUMAN|Q9P246 : USER001  
735 - 741 SKIKSLF

>STK11\_HUMAN|Q15831 : USER001  
83 - 89 KKLRRIP  
422 - 428 SKIRRLS

>STK16\_HUMAN|O75716 : USER001  
46 - 52 YALKRIL  
263 - 269 SALRQLL

>STK24\_HUMAN|Q9Y6E0 : USER001  
285 - 291 FILRNAK

>STK25\_HUMAN|O00506 : USER001  
2 - 8 AHLRGFA

>STK36\_HUMAN|Q9NRP7 : USER001  
953 - 959 SILKHLL

>STK38\_HUMAN|Q15208 : USER001  
62 - 68 KRLRRSA

>STK39\_HUMAN|Q9UEW8 : USER001  
364 - 370 KKVRRVP

>STK6\_HUMAN|O14965 : USER001  
159 - 165 LALKVLF  
186 - 192 SHLRHPN

>STOX2\_HUMAN|Q9P2F5 : USER001  
465 - 471 SKVHRSH

>STRA8\_HUMAN|Q7Z7C7 : USER001  
108 - 114 LCLKASF

>STRBP\_HUMAN|Q96SI9 : USER001  
312 - 318 HALRLSA  
353 - 359 SALKRPF

>STRN4\_HUMAN|Q9NRL3 : USER001  
197 - 203 KRVRSL

>STRN\_HUMAN|O43815 : USER001  
181 - 187 KRVRALL

>STRUM\_HUMAN|Q12768 : USER001  
390 - 396 KRLRQIK  
720 - 726 FALHRGL

>STT3A\_HUMAN|P46977 : USER001  
66 - 72 YKFHNWF  
98 - 104 AIYHVLH

>STT3B\_HUMAN|Q8TCJ2 : USER001  
770 - 776 YKVKAPD

>STX17\_HUMAN|P56962 : USER001  
225 - 231 AKYKLAA

>STX7\_HUMAN|O15400 : USER001  
120 - 126 ARVRASS

>STXB1\_HUMAN|P61764 : USER001  
97 - 103 AKYRAAH

>STXB5\_HUMAN|Q5T5C0 : USER001  
133 - 139 AILHSLK  
600 - 606 LKVKNP

>STXB6\_HUMAN|Q8NFX7 : USER001  
153 - 159 SILHSAA

>STYL1\_HUMAN|Q9Y6J8 : USER001  
125 - 131 YILKGGY

>SUCB1\_HUMAN|Q9P2R7 : USER001  
281 - 287 SAYRQKK

>SUHW1\_HUMAN|P59817 : USER001  
179 - 185 KRVKLRD

>SUH\_HUMAN|Q06330 : USER001  
159 - 165 KRIKVIS  
459 - 465 AILRANS  
>SUIS\_HUMAN|P14410 : USER001  
789 - 795 LHLRGGY  
1006 - 1012 ARIKLPS  
1683 - 1689 LHVRGGH  
>SULF2\_HUMAN|Q8IWU5 : USER001  
29 - 35 HRLKGRF  
385 - 391 SILKLLD  
525 - 531 KKYKASY  
>SUOX\_HUMAN|P51687 : USER001  
140 - 146 YAVHNQS  
>SUPT3\_HUMAN|O75486 : USER001  
174 - 180 KKLRRLL  
191 - 197 KIVKGID  
>SURF2\_HUMAN|Q15527 : USER001  
237 - 243 KKFKSHH  
>SUSD2\_HUMAN|Q9UGT4 : USER001  
182 - 188 WHVKSLP  
>SUSD3\_HUMAN|Q96L08 : USER001  
33 - 39 AKLRLPP  
>SUV3\_HUMAN|Q8IYB8 : USER001  
520 - 526 FAYHLPD  
>SUV41\_HUMAN|Q9NXV3 : USER001  
450 - 456 SKIKLRN  
>SV2A\_HUMAN|Q7L0J3 : USER001  
519 - 525 LRLKSVS  
>SVEP1\_HUMAN|Q8NBT9 : USER001  
638 - 644 FHIKVID  
901 - 907 SRIKRSA  
912 - 918 YKIKLIF  
2399 - 2405 SALHFGS  
2924 - 2930 YILHGAP  
2982 - 2988 YKLHGNS  
>SVIL\_HUMAN|O95425 : USER001  
185 - 191 YALHAGD  
924 - 930 SILKSQA  
>SY14L\_HUMAN|Q58G82 : USER001  
74 - 80 SHLKNWA  
>SYAC\_HUMAN|P49588 : USER001  
613 - 619 FALRSVL  
>SYAM\_HUMAN|Q5JTZ9 : USER001

40 - 46 SAVRAAF

>SYCM\_HUMAN|Q9HA77 : USER001

124 - 130 KIIKRAN

152 - 158 AALKVLP

>SYCP2\_HUMAN|Q9BX26 : USER001

247 - 253 KAFKRIK

>SYDM\_HUMAN|Q6PI48 : USER001

629 - 635 YHIRVSK

>SYEP\_HUMAN|P07814 : USER001

779 - 785 AAVKQLL

>SYF2\_HUMAN|O95926 : USER001

60 - 66 KRLKLPA

>SYFA\_HUMAN|Q9Y285 : USER001

228 - 234 LKVRSQF

>SYFM\_HUMAN|O95363 : USER001

4 - 10 SALRRGA

>SYGP1\_HUMAN|Q96PV0 : USER001

999 - 1005 SILHSHS

>SYHC\_HUMAN|P12081 : USER001

39 - 45 LKLKAQL

>SYHM\_HUMAN|P49590 : USER001

149 - 155 KRYHVGK

>SYIC\_HUMAN|P41252 : USER001

411 - 417 LIYKAVP

907 - 913 KRLKGAF

>SYIM\_HUMAN|Q9NSE4 : USER001

145 - 151 SKIHFVP

497 - 503 KKVKFIP

>SYK\_HUMAN|Q15046 : USER001

77 - 83 YKIRSQA

>SYLC\_HUMAN|Q9P2J5 : USER001

909 - 915 LRLRLKN

>SYLM\_HUMAN|Q15031 : USER001

285 - 291 LKVHGQA

>SYMC\_HUMAN|P56192 : USER001

167 - 173 SALHSWF

298 - 304 SRLRQWN

>SYMM\_HUMAN|Q96GW9 : USER001

313 - 319 LKFHAIY

>SYMPK\_HUMAN|Q92797 : USER001

301 - 307 LKLHLLS

542 - 548 KIFRLSD

702 - 708 LIFKRPS

1147 - 1153 KALKRQL

>SYN2\_HUMAN|Q92777 : USER001

373 - 379 KAVHGKD

>SYN3\_HUMAN|O14994 : USER001

352 - 358 KAVHSKD

>SYNC1\_HUMAN|Q9H7C4 : USER001

221 - 227 AAYKLHA

223 - 229 YKLHAQA

>SYNC\_HUMAN|O43776 : USER001

244 - 250 KILKARS

>SYNE1\_HUMAN|Q9UJ07 : USER001

84 - 90 KRIHAVA

352 - 358 KHFRVQY

508 - 514 LKYRLLS

1520 - 1526 ARIKAKL

2157 - 2163 KKIHSSD

7043 - 7049 KRLKQQH

8098 - 8104 SILRRLK

8144 - 8150 AKIKQLK

>SYNE2\_HUMAN|Q9NU50 : USER001

380 - 386 WKIKLNY

1889 - 1895 SKIKQVD

4461 - 4467 SKIKLPL

5219 - 5225 LAIKSKA

6341 - 6347 SRFHRRL

6547 - 6553 LKIKQNL

6633 - 6639 SRLRQLS

>SYNE3\_HUMAN|Q6ZMZ3 : USER001

431 - 437 ARLRNAA

>SYNJ1\_HUMAN|O43426 : USER001

164 - 170 LHLHLKH

>SYNJ2\_HUMAN|O15056 : USER001

271 - 277 LRLHRGL

>SYNLE\_HUMAN|Q7Z2Q7 : USER001

246 - 252 FAFKGLA

>SYNM\_HUMAN|Q96I59 : USER001

164 - 170 AAIHSFF

>SYNP2\_HUMAN|Q9UMS6 : USER001

34 - 40 AKIRNQS

936 - 942 AALKSQP

>SYNPO\_HUMAN|Q8N3V7 : USER001

596 - 602 SHLKGQA

>SYP2L\_HUMAN|Q9H987 : USER001

19 - 25 FRLHGGGA

34 - 40 SKIRRRS

>SYPH\_HUMAN|P08247 : USER001

75 - 81 FRLHQVY

>SYPL2\_HUMAN|Q5VXT5 : USER001

137 - 143 LRFHNLY

>SYQ\_HUMAN|P47897 : USER001

187 - 193 KKFVKVAK

>SYRC\_HUMAN|P54136 : USER001

86 - 92 HAIKAAY

390 - 396 AAIKQRL

>SYRM\_HUMAN|Q5T160 : USER001

138 - 144 KKFHVGH

551 - 557 ARLHLFK

557 - 563 KAVRSVL

>SYSM\_HUMAN|Q9NP81 : USER001

384 - 390 LHFRVLD

>SYT10\_HUMAN|Q6XYQ8 : USER001

251 - 257 KIIKALD

485 - 491 LAYHRKP

>SYT14\_HUMAN|Q8NB59 : USER001

341 - 347 YAVRFRL

440 - 446 SHFKNLA

>SYT16\_HUMAN|Q17RD7 : USER001

530 - 536 SHFRNLA

>SYT5\_HUMAN|O00445 : USER001

177 - 183 FAFKVPY

>SYT7\_HUMAN|O43581 : USER001

46 - 52 KRYKNSL

68 - 74 KAIKLPA

>SYT9\_HUMAN|Q86SS6 : USER001

33 - 39 FIYHLRD

>SYTL2\_HUMAN|Q9HCH5 : USER001

315 - 321 KHVRFSA

>SYTL4\_HUMAN|Q96C24 : USER001

34 - 40 KRIRRLK

>SYTL5\_HUMAN|Q8TDW5 : USER001

126 - 132 KRFKQVN

142 - 148 SILRRSP

>SYVN1\_HUMAN|Q86TM6 : USER001

158 - 164 HAYHSIL

>SYWC\_HUMAN|P23381 : USER001

103 - 109 LIVRFGS

>SYYM\_HUMAN|Q9Y2Z4 : USER001  
453 - 459 HILKNGL

>T106C\_HUMAN|Q9BVX2 : USER001  
140 - 146 LKIRNSN

>T11L2\_HUMAN|Q8N4U5 : USER001  
105 - 111 HIVHQAF

>T120A\_HUMAN|Q9BXJ8 : USER001  
187 - 193 SRIKGWW

>T120B\_HUMAN|A0PK00 : USER001  
183 - 189 SRIKGWW

>T132A\_HUMAN|Q24JP5 : USER001  
143 - 149 FHLKGQD  
288 - 294 LRIKVKK

>T132B\_HUMAN|Q14DG7 : USER001  
314 - 320 LRIKAAA

>T132E\_HUMAN|Q6IEE7 : USER001  
242 - 248 LRVKAKK

>T161A\_HUMAN|Q9NX61 : USER001  
38 - 44 FRYKHPS  
225 - 231 LAIRVGL

>T161B\_HUMAN|Q8NDZ6 : USER001  
147 - 153 FAIKVLF

>T176A\_HUMAN|Q96HP8 : USER001  
131 - 137 AALKLWN

>T183A\_HUMAN|Q8IXX5 : USER001  
23 - 29 KRLKFRA  
25 - 31 LKFRAHD  
327 - 333 HRVRLVF

>T183B\_HUMAN|Q1AE95 : USER001  
23 - 29 KRLKFRA  
25 - 31 LKFRAHD  
327 - 333 HRVRLVF

>T184A\_HUMAN|Q6ZMB5 : USER001  
89 - 95 YIIRLLL

>T184B\_HUMAN|Q9Y519 : USER001  
308 - 314 LALRHAF

>T200A\_HUMAN|Q86VY9 : USER001  
12 - 18 AALKRQD

>T200B\_HUMAN|Q69YZ2 : USER001  
40 - 46 LRVRARL  
44 - 50 ARLRLRS  
46 - 52 LRLRSPS

>T22D2\_HUMAN|O75157 : USER001



160 - 166 SRFRVIK

>T22D4\_HUMAN|Q9Y3Q8 : USER001

70 - 76 SRFRVVK

>T2EA\_HUMAN|P29083 : USER001

12 - 18 AALKRLA

>T2R10\_HUMAN|Q9NYW0 : USER001

282 - 288 SKLKQAS

>T2R13\_HUMAN|Q9NYV9 : USER001

286 - 292 AKLRQAF

>T2R14\_HUMAN|Q9NYV8 : USER001

285 - 291 KKLQAS

>T2R38\_HUMAN|P59533 : USER001

241 - 247 AHIKALK

>T2R39\_HUMAN|P59534 : USER001

327 - 333 LRLHLYP

>T2R41\_HUMAN|P59536 : USER001

288 - 294 LKLRSVF

>T2R42\_HUMAN|Q7RTR8 : USER001

243 - 249 FIVHFFS

>T2R43\_HUMAN|P59537 : USER001

164 - 170 WKIKLKS

265 - 271 KAIRFSY

>T2R44\_HUMAN|P59538 : USER001

164 - 170 WKIKLRS

265 - 271 KAIRFSY

>T2R46\_HUMAN|P59540 : USER001

164 - 170 WKIKLRS

>T2R47\_HUMAN|P59541 : USER001

164 - 170 WKIKLRS

284 - 290 KKLKQIF

>T2R48\_HUMAN|P59542 : USER001

164 - 170 WKIKLRN

>T2R49\_HUMAN|P59543 : USER001

116 - 122 LIFHHLK

119 - 125 HHLKRKA

164 - 170 WKIKLRN

>T2R60\_HUMAN|P59551 : USER001

241 - 247 AHIKALL

>TA2R7\_HUMAN|Q9NYW3 : USER001

229 - 235 AHVRALK

305 - 311 SILKGRK

>TA2R8\_HUMAN|Q9NYW2 : USER001

156 - 162 YRFHAIA

>TA2R9\_HUMAN|Q9NYW1 : USER001  
167 - 173 WKFKVSK

>TAAR1\_HUMAN|Q96RJ0 : USER001  
49 - 55 SHFKQLH  
110 - 116 SIFHLSF

>TAAR3\_HUMAN|Q9P1P4 : USER001  
57 - 63 SHFKQLH

>TAAR6\_HUMAN|Q96RI8 : USER001  
58 - 64 LHFQQLH

>TAAR8\_HUMAN|Q969N4 : USER001  
57 - 63 LHFQQLH  
244 - 250 YKIRVAK  
319 - 325 KAIKLIL

>TAAR9\_HUMAN|Q96RI9 : USER001  
58 - 64 LHFQQLH

>TAB2\_HUMAN|Q9NYJ8 : USER001  
195 - 201 LHIHGVP  
626 - 632 SAIHNFY

>TAB3\_HUMAN|Q8N5C8 : USER001  
290 - 296 SAYHSP

>TAC2N\_HUMAN|Q8N9U0 : USER001  
295 - 301 FAIKLQN

>TACC1\_HUMAN|Q9UPP9 : USER001  
20 - 26 SAVRGGA  
760 - 766 AALHAGL

>TACC3\_HUMAN|Q9Y6A5 : USER001  
370 - 376 AAVRQQK

>TACT\_HUMAN|P40200 : USER001  
229 - 235 YRLHLSP

>TAD1L\_HUMAN|Q96BN2 : USER001  
195 - 201 KAYRLRD

>TAD2B\_HUMAN|Q86TJ2 : USER001  
255 - 261 LRLKLRP

>TAD3L\_HUMAN|O75528 : USER001  
425 - 431 SILKLLD

>TADBP\_HUMAN|Q13148 : USER001  
248 - 254 LIKGIS

>TAF1L\_HUMAN|Q8IZX4 : USER001  
829 - 835 FIYRLFV  
1470 - 1476 LIVKNSA

>TAF1\_HUMAN|Q70T02 : USER001  
810 - 816 FIYRLFV  
1451 - 1457 LIVKNSA

>TAF4B\_HUMAN|Q92750 : USER001  
764 - 770 LRLKQKA

>TAF4\_HUMAN|O00268 : USER001  
982 - 988 LRLKQKA

>TAF5L\_HUMAN|O75529 : USER001  
153 - 159 FKLRAFL

>TAF5\_HUMAN|Q15542 : USER001  
449 - 455 KRVRLGP  
502 - 508 KKLRSVK

>TAF6\_HUMAN|P49848 : USER001  
5 - 11 KKLKLSN  
73 - 79 YALKLKN

>TAF7L\_HUMAN|Q5H9L4 : USER001  
102 - 108 FILRLPL

>TAF7\_HUMAN|Q15545 : USER001  
16 - 22 FILRLPP  
312 - 318 LALKNRF

>TAGAP\_HUMAN|Q8N103 : USER001  
363 - 369 ARLKSSL  
440 - 446 LKIKNLA

>TAI12\_HUMAN|Q9H175 : USER001  
53 - 59 SILKRQK

>TAIL1\_HUMAN|Q8NBL0 : USER001  
538 - 544 SRLHAVL

>TANC1\_HUMAN|Q9C0D5 : USER001  
870 - 876 HIFKGLS  
1545 - 1551 SAVRNGS

>TAOK1\_HUMAN|Q7L7X3 : USER001  
738 - 744 KALRNHL

>TAOK2\_HUMAN|Q9UL54 : USER001  
414 - 420 SIIHRLP

>TAOK3\_HUMAN|Q9H2K8 : USER001  
489 - 495 HRLKLQK

>TAP1\_HUMAN|Q03518 : USER001  
615 - 621 AAVKSGA

>TAP26\_HUMAN|Q9P031 : USER001  
55 - 61 FAFRRKL

>TAP2\_HUMAN|Q03519 : USER001  
53 - 59 LKLRGLL

>TARB1\_HUMAN|Q13395 : USER001  
205 - 211 AALRAVW  
764 - 770 LHLKVGW  
1008 - 1014 AKIKGQA

1141 - 1147 LAIKLLD  
1266 - 1272 LILKQAL  
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194 - 200 AAFKRNK  
>TATD1\_HUMAN|Q6P1N9 : USER001  
2 - 8 SRFKFD  
>TATD2\_HUMAN|Q93075 : USER001  
53 - 59 KRLKAQK  
>TAXB1\_HUMAN|Q86VP1 : USER001  
283 - 289 YKVHLKN  
>TAZ\_HUMAN|Q16635 : USER001  
82 - 88 LKLRHIW  
>TB182\_HUMAN|Q9C0C2 : USER001  
1654 - 1660 SALKAKL  
>TB22A\_HUMAN|Q9UH25 : USER001  
309 - 315 WAIRHPA  
502 - 508 YRLKFAF  
>TB22B\_HUMAN|Q9NU19 : USER001  
105 - 111 SKLRVKP  
298 - 304 WAIRHPA  
>TBC12\_HUMAN|O60347 : USER001  
651 - 657 LHFKSYS  
>TBC15\_HUMAN|Q8TC07 : USER001  
163 - 169 LHFHQGD  
230 - 236 WAIHHWK  
>TBC19\_HUMAN|Q8N5T2 : USER001  
399 - 405 FRLHSIS  
485 - 491 FAFRAVN  
>TBC24\_HUMAN|Q9ULP9 : USER001  
246 - 252 AILKFFH  
290 - 296 FAIRLFS  
>TBC25\_HUMAN|Q3MII6 : USER001  
378 - 384 AHLKLLL  
>TBC9B\_HUMAN|Q66K14 : USER001  
574 - 580 AALRRVL  
924 - 930 YKLHLPP  
>TBCD1\_HUMAN|Q86TI0 : USER001  
817 - 823 FHLKHQF  
>TBCD4\_HUMAN|O60343 : USER001  
34 - 40 KRFRLWY  
935 - 941 YRLRHRL  
>TBCD5\_HUMAN|Q92609 : USER001  
404 - 410 LILKALF

>TBCD8\_HUMAN|O95759 : USER001  
146 - 152 ARLKQVH  
328 - 334 AALRRVL

>TBCD9\_HUMAN|Q6ZT07 : USER001  
581 - 587 AALRRVL  
590 - 596 YAFRNPN

>TBCD\_HUMAN|Q9UG46 : USER001  
101 - 107 LAFKFLY  
978 - 984 YRYHVLL  
1067 - 1073 FAVKLLA

>TBCK\_HUMAN|Q8TEA7 : USER001  
526 - 532 AKFRRVL  
639 - 645 KIFHLWD

>TBD2A\_HUMAN|Q9BYX2 : USER001  
364 - 370 HKVRQIA

>TBD2B\_HUMAN|Q9UPU7 : USER001  
511 - 517 SALRRNA  
613 - 619 AKVRALD

>TBD\_HUMAN|Q9UJT1 : USER001  
249 - 255 FHYRRNP

>TBE\_HUMAN|Q9UJT0 : USER001  
424 - 430 AHLHHYL

>TBK1\_HUMAN|Q9UHD2 : USER001  
35 - 41 FAIKVFN

>TBL2\_HUMAN|Q9Y4P3 : USER001  
84 - 90 AALKSHS  
280 - 286 AAVHSFA

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31 - 37 HHFRGSP  
61 - 67 AAIRVWS

>TBRG4\_HUMAN|Q969Z0 : USER001  
125 - 131 AHFHQLL  
179 - 185 LKYKHLA

>TBX10\_HUMAN|O75333 : USER001  
127 - 133 YAFHSSA

>TBX19\_HUMAN|O60806 : USER001  
170 - 176 HIVRVGS

>TBX1\_HUMAN|O43435 : USER001  
172 - 178 YAFHSSS

>TBX20\_HUMAN|Q9UMR3 : USER001  
162 - 168 YAYHRSS

>TBX2\_HUMAN|Q13207 : USER001  
77 - 83 AHLRSLK

225 - 231 HIVRAND

>TBX3\_HUMAN|O15119 : USER001

253 - 259 HIVRAND

>TBX5\_HUMAN|Q99593 : USER001

112 - 118 HRYKFAD

>TBX6\_HUMAN|O95947 : USER001

284 - 290 ARVKKRKL

354 - 360 AAFHGAP

>TCAL1\_HUMAN|Q15170 : USER001

136 - 142 KRVRNKL

>TCAL7\_HUMAN|Q9BRU2 : USER001

81 - 87 KKFRALH

>TCB\_HUMAN|P01850 : USER001

78 - 84 SRLRVSA

>TCF15\_HUMAN|Q12870 : USER001

186 - 192 LKVVRGVA

>TCF20\_HUMAN|Q9UGU0 : USER001

1747 - 1753 SKVKVRH

>TCF21\_HUMAN|O43680 : USER001

129 - 135 AHLRQIL

>TCF25\_HUMAN|Q9BQ70 : USER001

389 - 395 LALRARN

>TCGAP\_HUMAN|O14559 : USER001

653 - 659 HRLRRPH

>TCHP\_HUMAN|Q9BT92 : USER001

28 - 34 ARLRQQW

>TCOF\_HUMAN|Q13428 : USER001

13 - 19 LIYHLL

1075 - 1081 AALKVLA

>TCP4\_HUMAN|P53999 : USER001

23 - 29 KKLKRKK

>TCPA\_HUMAN|P17987 : USER001

465 - 471 AKLRAFH

>TCPD\_HUMAN|P50991 : USER001

312 - 318 LALHFLN

>TCPH\_HUMAN|Q99832 : USER001

230 - 236 KKYHNP

372 - 378 FILRGGA

>TCPW\_HUMAN|Q92526 : USER001

2 - 8 AAIKAVN

>TCRG1\_HUMAN|O14776 : USER001

27 - 33 LRFRGPA

>TDG\_HUMAN|Q13569 : USER001

145 - 151 AAYKGHH  
>TDRD6\_HUMAN|O60522 : USER001  
14 - 20 LALRVSF  
873 - 879 LKVKAQA  
1957 - 1963 LHLHGAD  
>TDRD7\_HUMAN|Q8NHU6 : USER001  
559 - 565 KAYKLNP  
>TDRKH\_HUMAN|Q9Y2W6 : USER001  
113 - 119 AAIHQIL  
>TEAD1\_HUMAN|P28347 : USER001  
367 - 373 HKLKHLP  
419 - 425 HIYRLVK  
>TEAD2\_HUMAN|Q15562 : USER001  
388 - 394 HKLRQLP  
>TEAD3\_HUMAN|Q99594 : USER001  
360 - 366 YRIHRSP  
376 - 382 HKLKHLP  
>TEAD4\_HUMAN|Q15561 : USER001  
352 - 358 YRIHRSP  
368 - 374 HKLKHLP  
420 - 426 HIYRLVK  
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336 - 342 AKIKNVA  
>TECT3\_HUMAN|Q6NUS6 : USER001  
360 - 366 FILRFRA  
>TECTA\_HUMAN|O75443 : USER001  
1390 - 1396 AAIRLKS  
>TEKT2\_HUMAN|Q9UIF3 : USER001  
350 - 356 AALKQKL  
>TEKT3\_HUMAN|Q9BXF9 : USER001  
459 - 465 LAVKANS  
>TEKT4\_HUMAN|Q8WW24 : USER001  
50 - 56 ARYHQAF  
302 - 308 ARYKLHH  
304 - 310 YKLHHHL  
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816 - 822 LALRALL  
>TEN2\_HUMAN|Q9NT68 : USER001  
360 - 366 KAFKLKK  
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1468 - 1474 LAIHSAL  
1839 - 1845 LRVHGRN  
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294 - 300 SAFKFKK  
2603 - 2609 LALHVRY  
>TEN4\_HUMAN|Q6N022 : USER001  
1831 - 1837 LRVHNRN  
>TENA\_HUMAN|P24821 : USER001  
718 - 724 LKFKSIK  
>TENS1\_HUMAN|Q9HBL0 : USER001  
253 - 259 KKFRSPA  
1375 - 1381 AAFRQGS  
>TENX\_HUMAN|P22105 : USER001  
1920 - 1926 HRYKLLL  
3556 - 3562 KKYKFLL  
>TEP1\_HUMAN|Q99973 : USER001  
287 - 293 FILKASL  
839 - 845 AILKFIA  
>TERA\_HUMAN|P55072 : USER001  
15 - 21 AILKQKN  
92 - 98 LRVRLGD  
112 - 118 KRIHVLP  
655 - 661 AILKANL  
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107 - 113 AIIHGLS  
408 - 414 LHYKFNN  
428 - 434 KKLKLIS  
>TERT\_HUMAN|O14746 : USER001  
619 - 625 SRLRFIP  
656 - 662 SRVKALF  
695 - 701 LRVRAQD  
1045 - 1051 SILKAKN  
>TESC\_HUMAN|Q96BS2 : USER001  
61 - 67 KIVRAFF  
>TESK1\_HUMAN|Q15569 : USER001  
592 - 598 ARYRNLN  
>TESK2\_HUMAN|Q96S53 : USER001  
73 - 79 FKVRHRA  
167 - 173 LHFKGIF  
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892 - 898 LALRFLN  
>TEX14\_HUMAN|Q8IWB6 : USER001  
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300 - 306 SKLRHPY  
>TEX15\_HUMAN|Q9BXT5 : USER001  
564 - 570 SAVKQKD



972 - 978 KHIKSVL  
2153 - 2159 YAIHLLS  
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854 - 860 SKIKLPY  
>TEX9\_HUMAN|Q8N6V9 : USER001  
314 - 320 SKLRQNN  
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>TF2H1\_HUMAN|P32780 : USER001  
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>TF2H3\_HUMAN|Q13889 : USER001  
302 - 308 KKLKVSA  
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72 - 78 HRFKAYP  
>TF3A\_HUMAN|Q92664 : USER001  
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1226 - 1232 KKIKRKK  
1380 - 1386 SALRNSN  
1398 - 1404 ARYRVLA  
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225 - 231 KKIRQPA  
838 - 844 HKVRFSP  
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574 - 580 WRFKLFL  
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384 - 390 SKYKLKD  
420 - 426 KIIHRND  
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515 - 521 LALHSAA  
>TFAM\_HUMAN|Q00059 : USER001  
27 - 33 SRLRSPF  
136 - 142 KHLKRKA  
>TFCP2\_HUMAN|Q12800 : USER001  
3 - 9 WALKLPL  
118 - 124 SIFRVVF  
>TFDP3\_HUMAN|Q5H9I0 : USER001

139 - 145 AKFRAAS  
>TFEB\_HUMAN|P19484 : USER001  
323 - 329 ARVHGLP  
>TFG\_HUMAN|Q92734 : USER001  
11 - 17 LIVKAQL  
>TFIP8\_HUMAN|O95379 : USER001  
104 - 110 KKVHQLA  
>TFPI1\_HUMAN|P10646 : USER001  
6 - 12 KKVHALW  
>TFR2\_HUMAN|Q9UP52 : USER001  
770 - 776 SRFRRQL  
>TGFB1\_HUMAN|P01137 : USER001  
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>TGM3L\_HUMAN|O95932 : USER001  
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>TGM4\_HUMAN|P49221 : USER001  
42 - 48 FHLRLVL  
662 - 668 FIVKLSS  
>TGM5\_HUMAN|O43548 : USER001  
260 - 266 AILKQWN  
509 - 515 LKFKLLD  
>TGM7\_HUMAN|Q96PF1 : USER001  
204 - 210 YHLKNPA  
>TGS1\_HUMAN|Q96RS0 : USER001  
422 - 428 SKLKRSH  
>THAP1\_HUMAN|Q9NVV9 : USER001  
38 - 44 AAVRRKN  
>THAP6\_HUMAN|Q8TBB0 : USER001  
149 - 155 KKLKHKL  
>THAP9\_HUMAN|Q9H5L6 : USER001  
106 - 112 KILKQPL  
232 - 238 KILKLPH  
889 - 895 SKFRHLL  
>THAS\_HUMAN|Q9HD80 : USER001  
164 - 170 AHLKRYA  
498 - 504 HKFRFQA  
>THEX1\_HUMAN|Q8IV48 : USER001  
104 - 110 KRLKNYY  
>THNS1\_HUMAN|Q8IYQ7 : USER001  
186 - 192 LKFRRQY  
>THNS2\_HUMAN|Q86YJ6 : USER001  
93 - 99 SRLRNGL  
>THOC3\_HUMAN|Q96J01 : USER001

56 - 62 AKVHSVA

>THOC5\_HUMAN|Q13769 : USER001

105 - 111 AHIRLKK

>THRSP\_HUMAN|Q92748 : USER001

113 - 119 FHLHFSS

>THS7A\_HUMAN|Q9UPZ6 : USER001

577 - 583 KAVRLGD

>THS7B\_HUMAN|Q9C0I4 : USER001

963 - 969 LRFRAVA

>THSD1\_HUMAN|Q9NS62 : USER001

585 - 591 FRIKSPF

>THSD4\_HUMAN|Q6ZMP0 : USER001

452 - 458 LALRSRS

>THUM2\_HUMAN|Q9BTF0 : USER001

349 - 355 KKFCLGK

>THYG\_HUMAN|Q9UNY3 : USER001

992 - 998 YAIRLAA

>TI17A\_HUMAN|Q99595 : USER001

46 - 52 HRLRGSL

>TI17B\_HUMAN|O60830 : USER001

46 - 52 HRLRGSA

>TIAM1\_HUMAN|Q13009 : USER001

440 - 446 LAVKNFL

1388 - 1394 KAVHSIL

>TIAM2\_HUMAN|Q8IVF5 : USER001

30 - 36 LKIRGIH

233 - 239 SRLRSSK

1222 - 1228 KAFKAFL

>TIF1A\_HUMAN|O15164 : USER001

384 - 390 YRLRHLL

>TIF1B\_HUMAN|Q13263 : USER001

344 - 350 HILRFAS

>TIG1\_HUMAN|P49788 : USER001

65 - 71 AALHFFN

78 - 84 SALRVLA

>TIGD1\_HUMAN|Q96MW7 : USER001

143 - 149 SHFHNK

>TIGD3\_HUMAN|Q6B0B8 : USER001

7 - 13 KKLHALS

280 - 286 YHVKLLP

306 - 312 AHYRHRL

>TIGD4\_HUMAN|Q8IY51 : USER001

110 - 116 LRLKAND

>TIGD5\_HUMAN|Q53EQ6 : USER001  
374 - 380 AAFKQLY

>TIGD7\_HUMAN|Q6NT04 : USER001  
127 - 133 FRFRNRH

>TIM44\_HUMAN|O43615 : USER001  
4 - 10 AALRSGW  
174 - 180 AAFRALS

>TIM50\_HUMAN|Q3ZCQ8 : USER001  
9 - 15 SRLRSGL

>TIMD1\_HUMAN|Q96D42 : USER001  
10 - 16 LILHLAD

>TINF2\_HUMAN|Q9BSI4 : USER001  
10 - 16 AALRFAA  
225 - 231 LALHNPL

>TIPRL\_HUMAN|O75663 : USER001  
125 - 131 LKLKVVVP

>TITIN\_HUMAN|Q9Y6L9 : USER001  
1126 - 1132 YRYKVSY  
1400 - 1406 SRIRSLS  
1885 - 1891 KRFRVRY  
4802 - 4808 KKYRLFS  
6360 - 6366 KIVKAGD  
12710 - 12716 WKLKGQP  
13114 - 13120 AHLRVKP  
14190 - 14196 FRVRAQN  
14584 - 14590 YAYRVKA  
14586 - 14592 YRVKALN  
14780 - 14786 YIFRVAA  
14880 - 14886 YRFRVLA  
14982 - 14988 FRVRAVN  
15285 - 15291 LRVRAVN  
15478 - 15484 FRVKAVN  
15999 - 16005 YKLRVSA  
16192 - 16198 YKFRVIA  
16294 - 16300 FRVKAVN  
16498 - 16504 FRVRAVN  
16704 - 16710 YRFRVKA  
16706 - 16712 FRVKAVN  
17016 - 17022 FRVKAVN  
17065 - 17071 AKIKGVP  
17418 - 17424 YKFRVSA  
18112 - 18118 YKFRVLA  
18167 - 18173 AIIKGVP

18405 - 18411 YRFRVKA  
18459 - 18465 AIIRGVP  
18804 - 18810 FRIKAAN  
18857 - 18863 ARVKGRP  
19293 - 19299 YIFRVRA  
19555 - 19561 AIVRGRP  
19796 - 19802 YKFRVAA  
19989 - 19995 YIFRVRA  
20817 - 20823 LKVRSVS  
21273 - 21279 FRIRAKN  
21469 - 21475 YIFRVSA  
22158 - 22164 FRVKAQN  
23541 - 23547 YILKAKN  
24623 - 24629 YILRASN  
25210 - 25216 FRVKAYN  
25706 - 25712 YILKLSN  
27082 - 27088 FRVKSVN  
27123 - 27129 LIVKAGA  
27963 - 27969 YIFRVRA  
27965 - 27971 FRVRAVN  
29251 - 29257 YKFRVSA  
29543 - 29549 FRVKAKN  
30137 - 30143 YIFRVRA  
30139 - 30145 FRVRAVN  
30634 - 30640 FRIRAQN  
31030 - 31036 YRFRVLA  
31225 - 31231 YHFRVSA  
31781 - 31787 AKIRNY  
31950 - 31956 AKIHLPK  
32485 - 32491 AKVKVAS  
33112 - 33118 AAYRQPK  
>TJAP1\_HUMAN|Q5JTD0 : USER001  
    184 - 190 SHFRNHK  
    538 - 544 HHLHRKD  
>TLK1\_HUMAN|Q9UKI8 : USER001  
    403 - 409 FKLRLGH  
>TLK2\_HUMAN|Q86UE8 : USER001  
    409 - 415 FKLRLGH  
>TLL1\_HUMAN|O43897 : USER001  
    686 - 692 SKLHGKF  
    810 - 816 HRIKLAF  
>TLL2\_HUMAN|Q9Y6L7 : USER001  
    688 - 694 AKLHGRF

>TLR10\_HUMAN|Q9BXR5 : USER001  
743 - 749 HKLKALL

>TLR2\_HUMAN|O60603 : USER001  
392 - 398 LILRQNH  
610 - 616 HRFHGLW  
720 - 726 SHFRLFD

>TLR3\_HUMAN|O15455 : USER001  
759 - 765 YIIHAYK  
828 - 834 KRFKVHH

>TLR4\_HUMAN|O00206 : USER001  
348 - 354 LKLKSLK

>TLR6\_HUMAN|Q9Y2C9 : USER001  
167 - 173 AHLHLSY

>TLR7\_HUMAN|Q9NYK1 : USER001  
295 - 301 LRLHSNS  
421 - 427 KRLKVID

>TLR8\_HUMAN|Q9NR97 : USER001  
633 - 639 SIFKGLK

>TLR9\_HUMAN|Q9NR96 : USER001  
167 - 173 HALRFLF

>TLX1\_HUMAN|P31314 : USER001  
218 - 224 KRFHRQK

>TLX3\_HUMAN|O43711 : USER001  
183 - 189 KRFHRQK

>TM100\_HUMAN|Q9NV29 : USER001  
107 - 113 WKVRQRS

>TM104\_HUMAN|Q8NE00 : USER001  
351 - 357 AAVRFFL

>TM105\_HUMAN|Q8N8V8 : USER001  
3 - 9 LKVRRAS

>TM115\_HUMAN|Q12893 : USER001  
286 - 292 LALKALN

>TM116\_HUMAN|Q8NCL8 : USER001  
197 - 203 HKFHQLK

>TM11B\_HUMAN|Q86T26 : USER001  
115 - 121 LKFKFPP

>TM129\_HUMAN|A0AVI4 : USER001  
81 - 87 KRLHALS

>TM131\_HUMAN|Q92545 : USER001  
102 - 108 SHFHASF  
432 - 438 FKVHNFS  
528 - 534 LAIKSWH  
638 - 644 KIVHQSL

671 - 677 KRLRGNK

>TM135\_HUMAN|Q86UB9 : USER001

276 - 282 SAFRHLF

>TM143\_HUMAN|Q96AN5 : USER001

26 - 32 SRVRVWP

113 - 119 FHYHQIL

357 - 363 LALRAQD

>TM146\_HUMAN|Q86XM0 : USER001

326 - 332 SIIKFAD

>TM160\_HUMAN|Q9NX00 : USER001

16 - 22 LRFRRSL

>TM162\_HUMAN|Q17R55 : USER001

321 - 327 KALRGRA

>TM163\_HUMAN|Q8TC26 : USER001

143 - 149 AAVHSAH

>TM165\_HUMAN|Q9HC07 : USER001

29 - 35 AAVRAGP

>TM168\_HUMAN|Q9H0V1 : USER001

281 - 287 SAFKLRD

479 - 485 SKLKAFI

>TM16A\_HUMAN|Q5XXA6 : USER001

606 - 612 LIFKAFL

693 - 699 LKLKQQS

>TM16B\_HUMAN|Q9NQ90 : USER001

619 - 625 LILKAFL

>TM16D\_HUMAN|Q32M45 : USER001

207 - 213 SRFRRWL

>TM16F\_HUMAN|Q4KMQ2 : USER001

781 - 787 SIFKVAD

>TM16G\_HUMAN|Q6IWH7 : USER001

186 - 192 LRLKLPL

672 - 678 FRLRSKK

847 - 853 LAIRLAF

>TM16H\_HUMAN|Q9HCE9 : USER001

167 - 173 SIIRFWL

437 - 443 LIKVVL

1047 - 1053 KAFHAGK

>TM16J\_HUMAN|A1A5B4 : USER001

699 - 705 LAIRLAF

>TM16K\_HUMAN|Q9NW15 : USER001

603 - 609 LALKFIL

>TM173\_HUMAN|Q86WV6 : USER001

75 - 81 SRYRGSY

>TM175\_HUMAN|Q9BSA9 : USER001  
160 - 166 YAFHFPH

>TM177\_HUMAN|Q53S58 : USER001  
137 - 143 ARLRASL  
258 - 264 LALRSLL  
284 - 290 FRIKHLP

>TM178\_HUMAN|Q8NBL3 : USER001  
130 - 136 LILKGIA

>TM189\_HUMAN|A5PLL7 : USER001  
214 - 220 HRIHHVS

>TM192\_HUMAN|Q8IY95 : USER001  
104 - 110 WILHLLL

>TM195\_HUMAN|Q6ZNB7 : USER001  
59 - 65 WILKGKP  
186 - 192 YAVHLQF

>TM204\_HUMAN|Q9BSN7 : USER001  
211 - 217 ARFRRGL

>TM205\_HUMAN|Q6UW68 : USER001  
151 - 157 SALRQNF  
158 - 164 FRYHGLS

>TM38A\_HUMAN|Q9H6F2 : USER001  
139 - 145 HHYHHGW

>TM39B\_HUMAN|Q9GZU3 : USER001  
407 - 413 SHFRFHF  
409 - 415 FRFHFFF

>TM40L\_HUMAN|Q969M1 : USER001  
76 - 82 YHLHAAY

>TM41B\_HUMAN|Q5BJD5 : USER001  
284 - 290 KKLKQKF

>TM45B\_HUMAN|Q96B21 : USER001  
134 - 140 YHVHNRP

>TM63A\_HUMAN|O94886 : USER001  
69 - 75 SIIRRF  
119 - 125 AIFRLHD

>TM63B\_HUMAN|Q5T3F8 : USER001  
674 - 680 KKIHSGA

>TM63C\_HUMAN|Q9P1W3 : USER001  
236 - 242 LIKHFH  
675 - 681 SILRLGS

>TM87A\_HUMAN|Q8NBN3 : USER001  
301 - 307 SAVKRSL

>TM87B\_HUMAN|Q96K49 : USER001  
38 - 44 AAVRAVP



>TM9S3\_HUMAN|Q9HD45 : USER001  
122 - 128 YAIKNHY

>TMC1\_HUMAN|Q8TDI8 : USER001  
691 - 697 KILRQLS

>TMC5\_HUMAN|Q6UXY8 : USER001  
367 - 373 KAIRNQP

>TMC8\_HUMAN|Q8IU68 : USER001  
164 - 170 LRFHNQL

>TMCC1\_HUMAN|O94876 : USER001  
275 - 281 ARIKQVF

>TMCC2\_HUMAN|O75069 : USER001  
330 - 336 SRIKQVF

>TMCC3\_HUMAN|Q9ULS5 : USER001  
221 - 227 AHLKNSL

>TMCO5\_HUMAN|Q8N6Q1 : USER001  
244 - 250 FHVRFIN

>TMCO7\_HUMAN|Q9C0B7 : USER001  
1061 - 1067 AKLHAQL

>TMEM5\_HUMAN|Q9Y2B1 : USER001  
23 - 29 AAYHVFF

>TMEM8\_HUMAN|Q9HCN3 : USER001  
68 - 74 FRFRVPP

>TMEPA\_HUMAN|Q969W9 : USER001  
63 - 69 SHYKLSA

>TMF1\_HUMAN|P82094 : USER001  
577 - 583 KKLRAKD

>TMG1\_HUMAN|O14668 : USER001  
13 - 19 SILKRYP

>TMLH\_HUMAN|Q9NVH6 : USER001  
7 - 13 SHLHSRL

>TMM17\_HUMAN|Q86X19 : USER001  
169 - 175 LAVRFHL

>TMM20\_HUMAN|Q2M3R5 : USER001  
133 - 139 LILRGVL

>TMM22\_HUMAN|Q8TBE7 : USER001  
164 - 170 YRLRLFF

>TMM24\_HUMAN|O14523 : USER001  
646 - 652 LIFRRRP

>TMM25\_HUMAN|Q86YD3 : USER001  
352 - 358 YIYRVSS

>TMM26\_HUMAN|Q6ZUK4 : USER001  
309 - 315 LAVRASL

>TMM28\_HUMAN|O75949 : USER001

393 - 399 HHYHQYY

>TMM33\_HUMAN|P57088 : USER001

68 - 74 LRLHQRL

>TMM40\_HUMAN|Q8WWA1 : USER001

208 - 214 YRIHSVL

>TMM44\_HUMAN|Q2T9K0 : USER001

113 - 119 SKFKSNS

>TMM51\_HUMAN|Q9NW97 : USER001

201 - 207 LKVRIK

>TMM62\_HUMAN|Q0P6H9 : USER001

5 - 11 LALRVVA

451 - 457 FRYRGYP

562 - 568 SHLHQRK

>TMM68\_HUMAN|Q96MH6 : USER001

72 - 78 HIYKRKN

>TMM88\_HUMAN|Q6PEY1 : USER001

115 - 121 LRLRLAD

>TMM93\_HUMAN|Q9BV81 : USER001

17 - 23 AAVRGNA

>TMOD4\_HUMAN|Q9NZQ9 : USER001

188 - 194 KRVRSD

311 - 317 SIVRFGY

>TMPS4\_HUMAN|Q9NRS4 : USER001

256 - 262 WKVRAGS

>TMPS5\_HUMAN|Q9H3S3 : USER001

271 - 277 WRVHAGL

>TMPS6\_HUMAN|Q8IU80 : USER001

224 - 230 LRLKGPD

377 - 383 YALRRQK

>TMPS9\_HUMAN|Q7Z410 : USER001

970 - 976 AAVRLLS

>TMTC2\_HUMAN|Q8N394 : USER001

207 - 213 LKIKQIL

514 - 520 SAYRNAL

>TMTC3\_HUMAN|Q6ZXV5 : USER001

437 - 443 SALKVVK

694 - 700 KAIKLQA

>TMTC4\_HUMAN|Q5T4D3 : USER001

677 - 683 KAIKANP

>TMUB1\_HUMAN|Q9BVT8 : USER001

105 - 111 LRLKFLN

>TNAP2\_HUMAN|Q03169 : USER001

521 - 527 LHLHLVK

616 - 622 LAIKGNL  
628 - 634 KRIRSIL  
>TNF12\_HUMAN|O43508 : USER001  
232 - 238 AHLKAAP  
>TNF13\_HUMAN|O75888 : USER001  
217 - 223 FHLHQGD  
>TNFL4\_HUMAN|P23510 : USER001  
130 - 136 KKVRSVN  
>TNFL9\_HUMAN|P41273 : USER001  
163 - 169 LALHLQP  
>TNI3K\_HUMAN|Q59H18 : USER001  
555 - 561 SHFHLQL  
862 - 868 AALRSRF  
>TNIK\_HUMAN|Q9UKE3 : USER001  
142 - 148 SHLHQHK  
>TNIP2\_HUMAN|Q8NFZ5 : USER001  
46 - 52 ARLRARL  
>TNK1\_HUMAN|Q13470 : USER001  
64 - 70 KRLRSGP  
623 - 629 SAIRNLK  
>TNNI3\_HUMAN|P19429 : USER001  
171 - 177 AHLKQVK  
>TNNT1\_HUMAN|P13805 : USER001  
242 - 248 AKLKQQK  
>TNPO1\_HUMAN|Q92973 : USER001  
855 - 861 KILHGFK  
>TNPO2\_HUMAN|O14787 : USER001  
862 - 868 KILHGFK  
>TNPO3\_HUMAN|Q9Y5L0 : USER001  
692 - 698 YHVHQHS  
>TNR21\_HUMAN|O75509 : USER001  
308 - 314 HILKLLP  
>TNR6A\_HUMAN|Q9P268 : USER001  
164 - 170 SAVKVLN  
>TNR6B\_HUMAN|O95407 : USER001  
255 - 261 LKLRRRL  
>TNR8\_HUMAN|P28908 : USER001  
414 - 420 KRIRQKL  
>TNR9\_HUMAN|Q07011 : USER001  
222 - 228 YIFKQPF  
>TNR\_HUMAN|Q92752 : USER001  
778 - 784 SHLHFSH  
>TOP1M\_HUMAN|Q969P6 : USER001

7 - 13 LRLRAAL  
321 - 327 LALRAGN  
>TOP1\_HUMAN|P11387 : USER001  
485 - 491 LALRAGN  
>TOP2A\_HUMAN|P11388 : USER001  
547 - 553 SHIKGLL  
>TOP2B\_HUMAN|Q02880 : USER001  
225 - 231 AKIKHFD  
454 - 460 SKIKGIP  
568 - 574 SHIKGLL  
1395 - 1401 LKVKASP  
>TOP3A\_HUMAN|Q13472 : USER001  
436 - 442 FIVRHFL  
714 - 720 YRLKLF  
718 - 724 LKFKRGS  
>TOP3B\_HUMAN|O95985 : USER001  
762 - 768 HRVRVSA  
>TOPK\_HUMAN|Q96KB5 : USER001  
87 - 93 KILKSLH  
>TOX2\_HUMAN|Q96NM4 : USER001  
271 - 277 AAIKGQN  
>TOX3\_HUMAN|O15405 : USER001  
271 - 277 AAIKGQN  
320 - 326 AAYRASL  
>TOX4\_HUMAN|O94842 : USER001  
239 - 245 AAIKGQN  
>TOX\_HUMAN|O94900 : USER001  
277 - 283 AAIKGQN  
326 - 332 AAYRASL  
373 - 379 SHYHQQP  
>TPA\_HUMAN|P00750 : USER001  
28 - 34 ARFRRGA  
309 - 315 FRIKGGL  
466 - 472 AHVRLYP  
>TPC1\_HUMAN|Q9ULQ1 : USER001  
429 - 435 LIFKGIN  
>TPC2\_HUMAN|Q8NHX9 : USER001  
184 - 190 LRIRLL  
>TPC3L\_HUMAN|Q5T215 : USER001  
175 - 181 KKYRGKK  
>TPGS1\_HUMAN|Q6ZTW0 : USER001  
103 - 109 WHLRLAH  
>TPH1\_HUMAN|P17752 : USER001

245 - 251 LAFRVFH  
>TPH2\_HUMAN|Q8IWU9 : USER001  
291 - 297 LAYRVFH  
>TPM1\_HUMAN|P09493 : USER001  
265 - 271 LKYKAIS  
>TPM3\_HUMAN|P06753 : USER001  
265 - 271 LKYKAIS  
>TPOR\_HUMAN|P40238 : USER001  
455 - 461 SRYRLQL  
>TPP1\_HUMAN|O14773 : USER001  
51 - 57 FALRQQN  
>TPP2\_HUMAN|P29144 : USER001  
1058 - 1064 ARLHQLD  
1184 - 1190 FAYKHAL  
>TPPC1\_HUMAN|Q9Y5R8 : USER001  
67 - 73 SRYKLHY  
>TPPC4\_HUMAN|Q9Y296 : USER001  
180 - 186 FALKNPF  
>TPPP2\_HUMAN|P59282 : USER001  
55 - 61 SKVKAKN  
80 - 86 KRFBGKS  
>TPPP3\_HUMAN|Q9BW30 : USER001  
60 - 66 SKVKGKS  
85 - 91 KRFBGKS  
>TPPP\_HUMAN|O94811 : USER001  
101 - 107 SKIKGKS  
>TPRKB\_HUMAN|Q9Y3C4 : USER001  
60 - 66 KAVHLYK  
147 - 153 KIYKLSS  
>TPR\_HUMAN|P12270 : USER001  
281 - 287 AHIKLSN  
606 - 612 SIVRQRD  
>TPSN\_HUMAN|Q96KK7 : USER001  
77 - 83 AAFRRYP  
350 - 356 SALRHHS  
>TPX2\_HUMAN|Q9ULW0 : USER001  
342 - 348 YHLRSKK  
>TR10A\_HUMAN|O00220 : USER001  
6 - 12 ARVHLGA  
>TR11B\_HUMAN|O00300 : USER001  
332 - 338 WRIKNGD  
347 - 353 HALKHSK  
>TR150\_HUMAN|Q9Y2W1 : USER001

410 - 416 KRYKLRD

>TRA2A\_HUMAN|Q13595 : USER001

254 - 260 YRYRRRS

266 - 272 SRYRSRS

>TRABD\_HUMAN|Q9H4I3 : USER001

332 - 338 LAVKAAF

>TRADD\_HUMAN|Q15628 : USER001

62 - 68 LKIHRSD

>TRAF7\_HUMAN|Q6Q0C0 : USER001

498 - 504 KAIKVWD

>TRAIP\_HUMAN|Q9BWF2 : USER001

303 - 309 LKLRRPS

>TRAK2\_HUMAN|O60296 : USER001

308 - 314 LKLHLQA

>TRAM2\_HUMAN|Q15035 : USER001

102 - 108 KRLHLSK

107 - 113 SKVKHHSK

>TRBP2\_HUMAN|Q15633 : USER001

93 - 99 KHLKGGG

>TRDMT\_HUMAN|O14717 : USER001

336 - 342 LILKLRV

>TREA\_HUMAN|O43280 : USER001

122 - 128 AKLRAWA

>TREF1\_HUMAN|Q96PN7 : USER001

179 - 185 SALRQLL

652 - 658 KKFRHRP

847 - 853 FALHSLF

1096 - 1102 FKIJSRN

>TRES2\_HUMAN|Q9BQ50 : USER001

76 - 82 FAVHRSS

>TRFM\_HUMAN|P08582 : USER001

291 - 297 LIFRLLN

>TRHDE\_HUMAN|Q9UKU6 : USER001

6 - 12 AALRAGS

628 - 634 KALKLQN

780 - 786 YILKQVA

>TRI10\_HUMAN|Q9UDY6 : USER001

403 - 409 WAVRLAW

>TRI14\_HUMAN|Q14142 : USER001

64 - 70 AAVHVQK

278 - 284 ARLRLSA

>TRI17\_HUMAN|Q9Y577 : USER001

127 - 133 HRLHRVL

>TRI18\_HUMAN|O15344 : USER001  
557 - 563 LAYKSAP

>TRI22\_HUMAN|Q8IYM9 : USER001  
182 - 188 KILKGFN  
272 - 278 KKLKSVF

>TRI25\_HUMAN|Q14258 : USER001  
312 - 318 SKLRGIS

>TRI26\_HUMAN|Q12899 : USER001  
461 - 467 WALRLSS

>TRI32\_HUMAN|Q13049 : USER001  
179 - 185 ARYKAVL  
244 - 250 AKIKQAD  
645 - 651 YHLRRYS

>TRI34\_HUMAN|Q9BYJ4 : USER001  
455 - 461 LIYKFSK

>TRI36\_HUMAN|Q9NQ86 : USER001  
183 - 189 FKIHPW  
484 - 490 YAFRVRA  
486 - 492 FRVRAYK

>TRI37\_HUMAN|O94972 : USER001  
148 - 154 AKLRRRL  
308 - 314 WRLKVYP

>TRI39\_HUMAN|Q9HCM9 : USER001  
429 - 435 WRVRLWN  
449 - 455 LHIKVKP

>TRI42\_HUMAN|Q8IWZ5 : USER001  
150 - 156 SRLRLHS  
381 - 387 LKLRSIL  
467 - 473 LRLHSIN  
677 - 683 FKVRAIN

>TRI44\_HUMAN|Q96DX7 : USER001  
241 - 247 LKFKSSD  
276 - 282 KALHLVD

>TRI47\_HUMAN|Q96LD4 : USER001  
337 - 343 LALRLAL

>TRI48\_HUMAN|Q8IWZ4 : USER001  
191 - 197 LALRAGP

>TRI49\_HUMAN|Q9NS80 : USER001  
210 - 216 HRLHLSK

>TRI56\_HUMAN|Q9BRZ2 : USER001  
461 - 467 KKFKGRL  
746 - 752 HIFRVRS  
748 - 754 FRVRSPD

>TRI59\_HUMAN|Q8IWR1 : USER001  
380 - 386 HKVKNIL

>TRI66\_HUMAN|O15016 : USER001  
551 - 557 YIVRQPA  
1086 - 1092 SIIRKRL

>TRI67\_HUMAN|Q6ZTA4 : USER001  
583 - 589 ARVKAFN

>TRI69\_HUMAN|Q86WT6 : USER001  
208 - 214 LKLHQFL

>TRIM1\_HUMAN|Q9UJV3 : USER001  
491 - 497 FIVKAIN

>TRIM2\_HUMAN|Q9C040 : USER001  
449 - 455 KAVKRPA

>TRIM3\_HUMAN|O75382 : USER001  
443 - 449 SHVRQKA  
448 - 454 KAVRRPS

>TRIM4\_HUMAN|Q9C037 : USER001  
204 - 210 SKLHNFL

>TRIM5\_HUMAN|Q6GX26 : USER001  
460 - 466 LIYKFSH

>TRIM7\_HUMAN|Q9C029 : USER001  
179 - 185 SRLRVLK  
459 - 465 SRVRVAL

>TRIM9\_HUMAN|Q9C026 : USER001  
511 - 517 ARVKAFN

>TRIO\_HUMAN|O75962 : USER001  
389 - 395 SIFHQKA  
473 - 479 KAVHHVL  
2190 - 2196 FILHSSS

>TRIP4\_HUMAN|Q15650 : USER001  
253 - 259 LRIKSGL  
261 - 267 KAIKHKD  
564 - 570 SKIHQGA

>TRIPB\_HUMAN|Q15643 : USER001  
363 - 369 SAVKQSD

>TRIPC\_HUMAN|Q14669 : USER001  
220 - 226 ARVKQGK

>TRM1L\_HUMAN|Q7Z2T5 : USER001  
135 - 141 HKLRRHL

>TRM1\_HUMAN|Q9NXH9 : USER001  
333 - 339 AKVKASA

>TRMU\_HUMAN|O75648 : USER001  
382 - 388 KILRLGP



>TRNT1\_HUMAN|Q96Q11 : USER001  
325 - 331 FIVKNRK

>TROP\_HUMAN|Q12816 : USER001  
335 - 341 LRVKRGs

>TRPC1\_HUMAN|P48995 : USER001  
387 - 393 FIIHGAS  
470 - 476 FALKVVA

>TRPC3\_HUMAN|Q13507 : USER001  
377 - 383 KILRSPF

>TRPM2\_HUMAN|O94759 : USER001  
188 - 194 SIFRRGL

>TRPM3\_HUMAN|Q86WK1 : USER001  
1319 - 1325 YIVRQSS

>TRPM4\_HUMAN|Q8TD43 : USER001  
961 - 967 SILRRVF  
1083 - 1089 SHLRLLL

>TRPM6\_HUMAN|Q9BX84 : USER001  
532 - 538 KHFRALY  
1801 - 1807 FIVKSFL

>TRPM7\_HUMAN|Q96QT4 : USER001  
531 - 537 KRFRLIY  
1645 - 1651 YIIKSFL

>TRPM8\_HUMAN|Q7Z2W7 : USER001  
275 - 281 AKLRNQL  
815 - 821 FRLHSSN  
1080 - 1086 HRFRQLD

>TRPT1\_HUMAN|Q86TN4 : USER001  
37 - 43 YALRHGA

>TRPV1\_HUMAN|Q8NER1 : USER001  
719 - 725 KAFRSGK

>TRPV3\_HUMAN|Q8NET8 : USER001  
368 - 374 KRLRSLS

>TRPV5\_HUMAN|Q9NQA5 : USER001  
352 - 358 LKFRGGN

>TRRAP\_HUMAN|Q9Y4A5 : USER001  
384 - 390 HHVRQHL  
1005 - 1011 HRYKAQD

>TRS85\_HUMAN|Q9Y2L5 : USER001  
622 - 628 SAFRHIL  
822 - 828 ARLKLP

>TRUA\_HUMAN|Q9Y606 : USER001  
303 - 309 AIVKGYA

>TRUB2\_HUMAN|O95900 : USER001

7 - 13 SRLHGLF

- >TRXR2\_HUMAN|Q9UQU8 : USER001  
282 - 288 SRVRRLP
- >TRY2\_HUMAN|P07478 : USER001  
92 - 98 KIIRHPK
- >TRY3\_HUMAN|P35030 : USER001  
149 - 155 KIIRHPK
- >TRYA1\_HUMAN|P15157 : USER001  
190 - 196 AKYHLGA
- >TRYB1\_HUMAN|Q15661 : USER001  
48 - 54 LRVHGPY  
84 - 90 AALRVQL  
190 - 196 AKYHLGA
- >TRYD\_HUMAN|Q9BZJ3 : USER001  
48 - 54 LRVHGPY  
84 - 90 AALRVQL
- >TS101\_HUMAN|Q99816 : USER001  
361 - 367 KHVRLLS
- >TS1R1\_HUMAN|Q7RTX1 : USER001  
426 - 432 HKVHFL
- >TS1R2\_HUMAN|Q8TE23 : USER001  
397 - 403 HALHSL
- >TSAP1\_HUMAN|Q9NX07 : USER001  
34 - 40 KIIRNRL  
77 - 83 KRFKLN
- >TSC2\_HUMAN|P49815 : USER001  
596 - 602 LHYKHSY  
1742 - 1748 ARLRHIK
- >TSG13\_HUMAN|Q96PP4 : USER001  
150 - 156 KKLRSKL
- >TSG6\_HUMAN|P98066 : USER001  
163 - 169 WHIRLKY
- >TSH1\_HUMAN|Q6ZSZ6 : USER001  
86 - 92 AHFKGSS  
1050 - 1056 HAVKLHL
- >TSH2\_HUMAN|Q9NRE2 : USER001  
1007 - 1013 HAVKLHL
- >TSH3\_HUMAN|Q63HK5 : USER001  
1054 - 1060 HAVKLHL
- >TSHR\_HUMAN|P16473 : USER001  
290 - 296 KKIRGIL
- >TSN10\_HUMAN|Q9H1Z9 : USER001  
102 - 108 LAVKGS

>TSN13\_HUMAN|O95857 : USER001  
188 - 194 YRYRNQK

>TSN17\_HUMAN|Q96FV3 : USER001  
264 - 270 KAVKANW

>TSN32\_HUMAN|Q96QS1 : USER001  
5 - 11 SRVRVAK

>TSN6\_HUMAN|O43657 : USER001  
128 - 134 KALKQYN

>TSP2\_HUMAN|P35442 : USER001  
200 - 206 SHFRGLL

>TSP3\_HUMAN|P49746 : USER001  
127 - 133 LRLRGPS

>TSR1\_HUMAN|Q2NL82 : USER001  
496 - 502 ARIRFQK

>TSSK1\_HUMAN|Q9BXA7 : USER001  
24 - 30 AKVKSAY  
115 - 121 KKFHQLS

>TSSK2\_HUMAN|Q96PF2 : USER001  
24 - 30 AKVKSAY

>TSSP\_HUMAN|Q9NQE7 : USER001  
194 - 200 ARLKFPH

>TSYL2\_HUMAN|Q9H2G4 : USER001  
238 - 244 LRLKRKF  
401 - 407 SRIKRKK

>TSYL3\_HUMAN|Q9H489 : USER001  
238 - 244 FKFRFWS

>TSYL5\_HUMAN|Q86VY4 : USER001  
87 - 93 LALRARA  
292 - 298 YKIKFYF

>TTBK1\_HUMAN|Q5TCY1 : USER001  
449 - 455 LRYRRVN

>TTBK2\_HUMAN|Q6IQ55 : USER001  
1090 - 1096 ARLRRYK

>TTC12\_HUMAN|Q9H892 : USER001  
185 - 191 LALKNYS  
354 - 360 LAIRQQS

>TTC13\_HUMAN|Q8NBP0 : USER001  
619 - 625 KILHFIK

>TTC16\_HUMAN|Q8NEE8 : USER001  
207 - 213 YIFRARL

>TTC17\_HUMAN|Q96AE7 : USER001  
700 - 706 LALKNIS

>TTC18\_HUMAN|Q8NI31 : USER001

355 - 361 KRIRGAF

701 - 707 SHIHSL

>TTC23\_HUMAN|Q5W5X9 : USER001

186 - 192 ARIRLSF

>TTC27\_HUMAN|Q6P3X3 : USER001

7 - 13 AILRGFP

650 - 656 KAYHRL

>TTC28\_HUMAN|Q96AY4 : USER001

352 - 358 AKIRHGL

1611 - 1617 KIFRGAP

>TTC29\_HUMAN|Q8NA56 : USER001

58 - 64 AAYRNSY

98 - 104 ARVRSLF

>TTC33\_HUMAN|Q6PID6 : USER001

42 - 48 HAIKRRK

>TTC37\_HUMAN|Q6PGP7 : USER001

1150 - 1156 KHIKHKD

1184 - 1190 KAVHNSP

>TTC3\_HUMAN|P53804 : USER001

1713 - 1719 KAIKNGS

1868 - 1874 KKVRSKN

>TTC4\_HUMAN|O95801 : USER001

153 - 159 AIIRGAL

>TTC7A\_HUMAN|Q9ULT0 : USER001

567 - 573 HALHLLA

>TTC7B\_HUMAN|Q86TV6 : USER001

34 - 40 YRLRVIA

486 - 492 SKVKLQS

>TTC8\_HUMAN|Q8TAM2 : USER001

41 - 47 WILKARA

>TTC9C\_HUMAN|Q8N5M4 : USER001

29 - 35 SRYHRAL

>TTF1\_HUMAN|Q15361 : USER001

805 - 811 SRLKAVY

>TTK\_HUMAN|P33981 : USER001

584 - 590 KIIRLYD

824 - 830 SILKAAK

>TTL12\_HUMAN|Q14166 : USER001

32 - 38 AALHGPA

>TTLL4\_HUMAN|Q14679 : USER001

834 - 840 WALKALW

>TTLL5\_HUMAN|Q6EMB2 : USER001

531 - 537 AKLHAAL

>TTPA\_HUMAN|P49638 : USER001  
29 - 35 AALRRRA  
189 - 195 LKVRGIH  
>TTRAP\_HUMAN|O95551 : USER001  
187 - 193 SRVKLKS  
>TULP3\_HUMAN|O75386 : USER001  
55 - 61 ARLRRAK  
>TULP4\_HUMAN|Q9NRJ4 : USER001  
1383 - 1389 KKVKSQK  
>TUSC2\_HUMAN|O75896 : USER001  
77 - 83 AKLRRVH  
>TUSC3\_HUMAN|Q13454 : USER001  
331 - 337 SIFRSKY  
335 - 341 SKYHGYD  
>TUT1\_HUMAN|Q9H6E5 : USER001  
119 - 125 HRLRVRP  
>TUTLA\_HUMAN|Q9P2J2 : USER001  
170 - 176 WKLRGKD  
>TUTLB\_HUMAN|Q9UPX0 : USER001  
906 - 912 AALKSQL  
>TVC\_HUMAN|P03979 : USER001  
96 - 102 WILRLQN  
>TWF1\_HUMAN|Q12792 : USER001  
252 - 258 ARYHFFL  
>TWF2\_HUMAN|Q6IBS0 : USER001  
234 - 240 ARYHFFL  
317 - 323 HAFKQAF  
>TX13B\_HUMAN|Q9BXU2 : USER001  
97 - 103 AKLHRSA  
>TXD10\_HUMAN|Q96JJ7 : USER001  
369 - 375 SIFKSSP  
>TXD11\_HUMAN|Q6PKC3 : USER001  
257 - 263 SALHSLK  
793 - 799 FILHHSD  
>TXD13\_HUMAN|Q9H1E5 : USER001  
171 - 177 WHLHNYF  
>TXD16\_HUMAN|Q9P2K2 : USER001  
795 - 801 LRIKHWN  
>TXLNG\_HUMAN|Q9NUQ3 : USER001  
463 - 469 AAIKAAN  
>TXND9\_HUMAN|O14530 : USER001  
138 - 144 LHIKVIP  
>TYDP1\_HUMAN|Q9NUW8 : USER001

236 - 242 AHLHAQA

553 - 559 FKVKQKF

>TYK2\_HUMAN|P29597 : USER001

103 - 109 FRIRFYF

232 - 238 LRLRNVF

>TYRP1\_HUMAN|P17643 : USER001

127 - 133 LIVRRNL

>TYRP2\_HUMAN|P40126 : USER001

75 - 81 YILRNQD

>TYSD1\_HUMAN|Q2T9J0 : USER001

81 - 87 LRLHVQW

>U2AF1\_HUMAN|Q01081 : USER001

34 - 40 SRLHNKP

>U2AF2\_HUMAN|P26368 : USER001

224 - 230 LKIRRPB

>U2AF4\_HUMAN|Q8WU68 : USER001

34 - 40 SRLHNKP

>U2AFL\_HUMAN|Q15695 : USER001

22 - 28 KKYRAAL

>U2AFM\_HUMAN|Q15696 : USER001

16 - 22 KKYRAAL

>U384\_HUMAN|Q9Y3C1 : USER001

37 - 43 SHIRHAW

>U3IP2\_HUMAN|O43818 : USER001

78 - 84 KKLRLAK

>U520\_HUMAN|O75643 : USER001

1310 - 1316 SALRNSA

>U530\_HUMAN|Q5R3I4 : USER001

55 - 61 SKLKAAD

143 - 149 LALKFSH

>U534\_HUMAN|Q96EY4 : USER001

44 - 50 KALRLNL

>U536\_HUMAN|Q96MD2 : USER001

428 - 434 LALKNPK

>U537\_HUMAN|Q8IWD5 : USER001

354 - 360 KRVKALS

>UACA\_HUMAN|Q9BZF9 : USER001

6 - 12 SRLRRQD

>UB2CB\_HUMAN|Q7Z6J8 : USER001

321 - 327 SAVKVLY

>UB2J1\_HUMAN|Q9Y385 : USER001

301 - 307 LIFRRIY

>UB2L6\_HUMAN|O14933 : USER001

45 - 51 YHLKAFN

>UB2Q1\_HUMAN|Q7Z7E8 : USER001

50 - 56 SIFHRGH

>UB2Q2\_HUMAN|Q8WVN8 : USER001

239 - 245 WHVKLQK

>UB2V1\_HUMAN|Q9UKL1 : USER001

65 - 71 HRIHHVS

>UB7I3\_HUMAN|Q9BYM8 : USER001

418 - 424 LALRAQN

>UBA7\_HUMAN|P41226 : USER001

878 - 884 SAFRHSY

>UBAP2\_HUMAN|Q5T6F2 : USER001

501 - 507 KHIKLAK

>UBC9\_HUMAN|P63279 : USER001

146 - 152 KRVRAQA

>UBCP1\_HUMAN|Q8WVY7 : USER001

48 - 54 LKVKGKP

>UBE2C\_HUMAN|O00762 : USER001

77 - 83 LRYKLSL

>UBE2O\_HUMAN|Q9H7E4 : USER001

384 - 390 KKVKRLL

>UBE2S\_HUMAN|Q16763 : USER001

11 - 17 HIIRLVY

>UBE3A\_HUMAN|Q9UEP9 : USER001

731 - 737 KAFRRGF

>UBE3B\_HUMAN|Q7Z3V4 : USER001

38 - 44 AHVRSFL

>UBE3C\_HUMAN|Q15386 : USER001

750 - 756 KRIRVHL

937 - 943 LAFRQGL

>UBE4B\_HUMAN|O95155 : USER001

164 - 170 KIFRVSW

642 - 648 KILHSIL

>UBF1\_HUMAN|P17480 : USER001

461 - 467 AALKAQS

>UBIA1\_HUMAN|Q9Y5Z9 : USER001

227 - 233 AILHSNN

>UBIP1\_HUMAN|Q9NZI7 : USER001

115 - 121 SIIRVVF

>UBL7\_HUMAN|Q96S82 : USER001

8 - 14 LAVKLAD

>UBP12\_HUMAN|O75317 : USER001

68 - 74 LAYKSQP

257 - 263 LHLKRFK

320 - 326 AIVKSHD

>UBP15\_HUMAN|Q9Y4E8 : USER001

528 - 534 HRFHRIF

>UBP16\_HUMAN|Q9Y5T5 : USER001

90 - 96 HALKHYL

>UBP1\_HUMAN|O94782 : USER001

282 - 288 KKVKLSK

>UBP20\_HUMAN|Q9Y2K6 : USER001

384 - 390 AHLRSSS

>UBP25\_HUMAN|Q9UHP3 : USER001

591 - 597 YRLHAVL

>UBP28\_HUMAN|Q96RU2 : USER001

584 - 590 YRLHAVL

>UBP29\_HUMAN|Q9HBJ7 : USER001

872 - 878 ARLHSGY

>UBP2L\_HUMAN|Q14157 : USER001

412 - 418 SAVHSPF

>UBP2\_HUMAN|O75604 : USER001

500 - 506 LHLKRFS

>UBP31\_HUMAN|Q70CQ4 : USER001

1194 - 1200 KHVRSSS

>UBP33\_HUMAN|Q8TEY7 : USER001

516 - 522 AKLHSSS

526 - 532 SIVKAGS

>UBP34\_HUMAN|Q9UGA1 : USER001

1047 - 1053 SHLKALS

1278 - 1284 LKIKSAH

2025 - 2031 HAYKNNK

>UBP37\_HUMAN|Q86T82 : USER001

561 - 567 LHLKRY5

>UBP38\_HUMAN|Q8NB14 : USER001

541 - 547 KILKVQA

>UBP3\_HUMAN|Q9Y6I4 : USER001

410 - 416 LHLKRFH

>UBP40\_HUMAN|Q9NVE5 : USER001

157 - 163 LIYRLYH

529 - 535 LHLHLGP

>UBP44\_HUMAN|Q9H0E7 : USER001

103 - 109 SAIKSQN

>UBP45\_HUMAN|Q70EL2 : USER001

316 - 322 SILKAFN

593 - 599 KHLRSYS



684 - 690 LHLKRFH  
>UBP46\_HUMAN|P62068 : USER001  
253 - 259 LHLKRFK  
>UBP47\_HUMAN|Q96K76 : USER001  
401 - 407 HRIKLND  
559 - 565 LIYRLKD  
751 - 757 KAIHLPA  
1063 - 1069 AAFKQHL  
>UBP48\_HUMAN|Q9H5N3 : USER001  
565 - 571 LRLKNQL  
584 - 590 AAVKGS  
>UBP49\_HUMAN|Q70CQ1 : USER001  
100 - 106 LAVRGQK  
240 - 246 LKLRRQP  
>UBP4\_HUMAN|Q13107 : USER001  
695 - 701 KKIKGQP  
>UBP50\_HUMAN|Q70EL3 : USER001  
269 - 275 FHLKRFD  
>UBP53\_HUMAN|Q70EK8 : USER001  
369 - 375 SHYKSVA  
1051 - 1057 LKYHQR  
>UBP54\_HUMAN|A6PVS7 : USER001  
826 - 832 SKLRLAL  
830 - 836 LALHGAS  
>UBP6\_HUMAN|P35125 : USER001  
321 - 327 ARLRNQF  
>UBP7\_HUMAN|Q93009 : USER001  
448 - 454 YILHAVL  
>UBP8\_HUMAN|P40818 : USER001  
603 - 609 FKIKGQP  
711 - 717 SKLKRSY  
>UBQL3\_HUMAN|Q9H347 : USER001  
145 - 151 LAYRGFP  
>UBR1\_HUMAN|Q8IWV7 : USER001  
313 - 319 FALRLGS  
1026 - 1032 ARLHRQK  
>UBR2\_HUMAN|Q8IWV8 : USER001  
388 - 394 FAVRFAK  
>UBR3\_HUMAN|Q6ZT12 : USER001  
33 - 39 AHLKAAL  
109 - 115 AAVRAYD  
359 - 365 KRVKLSS  
>UBR4\_HUMAN|Q9UG82 : USER001

348 - 354 AILHVGS  
440 - 446 AALRVRD  
2001 - 2007 FIIKAVW  
2537 - 2543 SAYHSHK  
2630 - 2636 WKLHASK  
3235 - 3241 SHVRGIK  
3434 - 3440 HIYRNSS  
5088 - 5094 SAYRSSL  
>UBS3B\_HUMAN|Q8TF42 : USER001  
215 - 221 LAYHFQA  
323 - 329 WIFHGSY  
>UBXD1\_HUMAN|Q9BZV1 : USER001  
339 - 345 LRVRLPD  
>UBXD2\_HUMAN|Q92575 : USER001  
402 - 408 SIVHSSS  
>UBXD7\_HUMAN|O94888 : USER001  
292 - 298 AAIRASL  
>UCK1\_HUMAN|Q9HA47 : USER001  
78 - 84 KALKGQY  
>UCK2\_HUMAN|Q9BZX2 : USER001  
75 - 81 KALKGQF  
>UCKL1\_HUMAN|Q9NWZ5 : USER001  
170 - 176 KKLKQ GK  
>UCP1\_HUMAN|P25874 : USER001  
145 - 151 SHLHGIK  
>UCP4\_HUMAN|O95847 : USER001  
168 - 174 LRFRGVH  
>UD2A1\_HUMAN|Q9Y4X1 : USER001  
335 - 341 WRYKGKK  
381 - 387 AIYHGVP  
472 - 478 KHLRVAA  
>UD2A3\_HUMAN|Q6UWM9 : USER001  
335 - 341 WRYKGKK  
381 - 387 AIYHGVP  
472 - 478 KHLRSAA  
>UD2B4\_HUMAN|P06133 : USER001  
383 - 389 AIYHGIP  
474 - 480 KHLRVAA  
>UD2B7\_HUMAN|P16662 : USER001  
383 - 389 AIYHGIP  
474 - 480 KHLRVAA  
>UD3A2\_HUMAN|Q3SY77 : USER001  
431 - 437 KRYKSAA

>UDB10\_HUMAN|P36537 : USER001  
382 - 388 AIYHGIP  
473 - 479 KHLRVAA

>UDB11\_HUMAN|O75310 : USER001  
383 - 389 AIYHGIP  
474 - 480 KHLRVAA

>UDB15\_HUMAN|P54855 : USER001  
384 - 390 AIYHGIP  
475 - 481 KHLRVAA

>UDB17\_HUMAN|O75795 : USER001  
384 - 390 AIYHGIP  
475 - 481 KHLRVAA

>UDB28\_HUMAN|Q9BY64 : USER001  
383 - 389 AIYHGIP  
474 - 480 KHLRVAA

>UEVLD\_HUMAN|Q8IX04 : USER001  
406 - 412 KKVHSVS

>UFSP2\_HUMAN|Q9NUQ7 : USER001  
5 - 11 FRIRGGL  
27 - 33 KALKHVL

>UGGG1\_HUMAN|Q9NYU2 : USER001  
950 - 956 SAIKLRP  
1139 - 1145 WILRLRK

>UGGG2\_HUMAN|Q9NYU1 : USER001  
1143 - 1149 LRLHQGK  
1183 - 1189 LKVVKVKK  
1476 - 1482 SKLKAAA

>UH1BL\_HUMAN|A0JNW5 : USER001  
305 - 311 AIVKLFN

>UHMK1\_HUMAN|Q8TAS1 : USER001  
407 - 413 SAYKRGY

>ULK1\_HUMAN|O75385 : USER001  
861 - 867 AALKGSA

>ULK4\_HUMAN|Q96C45 : USER001  
177 - 183 SRVKGSP  
879 - 885 SHIKSVD

>UN13A\_HUMAN|Q9UPW8 : USER001  
751 - 757 SRVKQRF  
1116 - 1122 LHFVKVKW

>UN13B\_HUMAN|O14795 : USER001  
675 - 681 SRVKQRL  
1036 - 1042 LHFVKVKW

>UN13C\_HUMAN|Q8NB66 : USER001

975 - 981 AALRAYK  
1295 - 1301 SRVKQHF  
1660 - 1666 LHFVKVW  
>UN13D\_HUMAN|Q70J99 : USER001  
470 - 476 FHLKQQH  
517 - 523 LKIHLS  
>UN45A\_HUMAN|Q9H3U1 : USER001  
569 - 575 AALKALF  
>UN84A\_HUMAN|O94901 : USER001  
371 - 377 SRLKQPL  
628 - 634 SALKLYS  
>UN84B\_HUMAN|Q9UH99 : USER001  
428 - 434 LALKQSS  
530 - 536 HIVKQAL  
>UNC5A\_HUMAN|Q6ZN44 : USER001  
54 - 60 YIVKNKP  
591 - 597 KRLKLLL  
>UNC5B\_HUMAN|Q8IZJ1 : USER001  
58 - 64 YIVKNKP  
480 - 486 LKVKVYS  
522 - 528 LHLRSAS  
>UNC5C\_HUMAN|O95185 : USER001  
72 - 78 YIVKNKP  
477 - 483 LKIKVYN  
>UNC5D\_HUMAN|Q6UXZ4 : USER001  
64 - 70 YIISNP  
>UNKL\_HUMAN|Q9H9P5 : USER001  
70 - 76 ARVRRQL  
>UNK\_HUMAN|Q9C0B0 : USER001  
250 - 256 HKYRSSP  
>URFB1\_HUMAN|Q6BDS2 : USER001  
139 - 145 KAFHASF  
824 - 830 AHVRVRL  
1091 - 1097 ARLRFFS  
1268 - 1274 AAVHSPL  
>UROL1\_HUMAN|Q5DID0 : USER001  
214 - 220 HHLHSAP  
>URP2\_HUMAN|Q86UX7 : USER001  
110 - 116 LRLRAS  
>US6NL\_HUMAN|Q92738 : USER001  
128 - 134 SKLKHRA  
247 - 253 SKLKQHL  
812 - 818 YHYRNRD

>USBP1\_HUMAN|Q8N6Y0 : USER001  
645 - 651 LAFRGAH

>USE1\_HUMAN|Q9NZ43 : USER001  
46 - 52 LKVHASK

>USH1G\_HUMAN|Q495M9 : USER001  
39 - 45 AAYHGNL

>USH2A\_HUMAN|O75445 : USER001  
294 - 300 LRLHAQS  
487 - 493 FHFHGQY  
1961 - 1967 SRVRSLN  
1987 - 1993 YILKAYS  
3901 - 3907 FIYRRPA  
3996 - 4002 SHYRVVY  
4905 - 4911 YKLRVVA

>USMG5\_HUMAN|Q96IX5 : USER001  
45 - 51 FKLRSKK

>USP9X\_HUMAN|Q93008 : USER001  
437 - 443 AIVKNVH  
2346 - 2352 HRIHNAL

>USP9Y\_HUMAN|O00507 : USER001  
445 - 451 AIVKNVH  
889 - 895 LIVRFPN  
2062 - 2068 KIVRGPA  
2354 - 2360 HRIHNAL

>USPL1\_HUMAN|Q5W0Q7 : USER001  
886 - 892 HKLRLKL  
888 - 894 LRLKLRK

>UT14A\_HUMAN|Q9BVJ6 : USER001  
108 - 114 SRVKSJK  
245 - 251 KKIJSJK

>UT14C\_HUMAN|Q5TAP6 : USER001  
244 - 250 KKIJSJK

>UT1\_HUMAN|Q13336 : USER001  
61 - 67 WILRGIS

>UT2\_HUMAN|Q15849 : USER001  
418 - 424 AIFRLPL  
880 - 886 AIYKLPL

>UTP11\_HUMAN|Q9Y3A2 : USER001  
243 - 249 AIYKFQS

>UTP18\_HUMAN|Q9Y5J1 : USER001  
548 - 554 YRLHHYS

>UTP20\_HUMAN|O75691 : USER001  
183 - 189 LHIRNFA

502 - 508 SIIKLPP  
2466 - 2472 SHVHSHL  
2470 - 2476 SHLRHPH  
>UTP6\_HUMAN|Q9NYH9 : USER001  
134 - 140 LAIHSNK  
>UTRO\_HUMAN|P46939 : USER001  
3081 - 3087 FRYRSLK  
3347 - 3353 HRLRQLL  
>V1AR\_HUMAN|P37288 : USER001  
115 - 121 YRFRGPD  
>V2R\_HUMAN|P30518 : USER001  
146 - 152 LAYRHGS  
>VA0D1\_HUMAN|P61421 : USER001  
45 - 51 LKLHLQS  
>VAMP1\_HUMAN|P23763 : USER001  
84 - 90 AKLKRKY  
>VAMP2\_HUMAN|P63027 : USER001  
82 - 88 AKLKRKY  
>VAMP3\_HUMAN|Q15836 : USER001  
65 - 71 AKLKRKY  
>VANG1\_HUMAN|Q8TAA9 : USER001  
298 - 304 SKFRAAK  
>VAPA\_HUMAN|Q9P0L0 : USER001  
23 - 29 LKFKGPF  
37 - 43 LKLRNPS  
>VAPB\_HUMAN|O95292 : USER001  
16 - 22 LKFRGPF  
>VASN\_HUMAN|Q6EMK4 : USER001  
213 - 219 SRLRNLH  
>VASP\_HUMAN|P50552 : USER001  
65 - 71 AIVRGVK  
>VATD\_HUMAN|Q9Y5K8 : USER001  
42 - 48 LRFRQIL  
132 - 138 AKLKRNY  
>VATG3\_HUMAN|Q96LB4 : USER001  
31 - 37 KRLKQAK  
55 - 61 FRLKQSK  
>VATH\_HUMAN|Q9UI12 : USER001  
287 - 293 AAFRNFL  
>VAV2\_HUMAN|P52735 : USER001  
337 - 343 LKYHLLL  
>VAV3\_HUMAN|Q9UKW4 : USER001  
332 - 338 LKYHLLL

>VAV\_HUMAN|P15498 : USER001  
334 - 340 LKYHLLL

>VAX1\_HUMAN|Q5SQQ9 : USER001  
207 - 213 SALRGPS

>VDR\_HUMAN|P11473 : USER001  
293 - 299 YKYRVSD

>VEGFA\_HUMAN|Q96L82 : USER001  
158 - 164 SRYKSW

>VEGFC\_HUMAN|P49767 : USER001  
223 - 229 SIIRSL

>VEZA\_HUMAN|Q9HBM0 : USER001  
435 - 441 LHLKALL

>VGFR2\_HUMAN|P35968 : USER001  
943 - 949 ARFRQ GK

>VGF\_HUMAN|O15240 : USER001  
2 - 8 KALRLSA  
559 - 565 SALRRRH

>VGLL2\_HUMAN|Q8N8G2 : USER001  
180 - 186 AALHGHL

>VIAAT\_HUMAN|Q9H598 : USER001  
140 - 146 AILHGGY  
476 - 482 FHLRLLW

>VIGLN\_HUMAN|Q00341 : USER001  
444 - 450 HKFHRHL  
662 - 668 AKLHNSL

>VILI\_HUMAN|P09327 : USER001  
251 - 257 AALKLYH

>VILL\_HUMAN|O15195 : USER001  
138 - 144 LHIKGRK  
338 - 344 AAFKQLF

>VIME\_HUMAN|Q9NTM3 : USER001  
66 - 72 SAVRLRS

>VINEX\_HUMAN|O60504 : USER001  
547 - 553 SALRSPA

>VIP1\_HUMAN|Q8IZN0 : USER001  
125 - 131 SKLRNPF  
396 - 402 AIIRHGD  
629 - 635 HRVKARL  
633 - 639 ARLHHIL  
843 - 849 SHVHSL

>VIP2\_HUMAN|O43314 : USER001  
114 - 120 AKLRNPF  
827 - 833 SHVHSL

1102 - 1108 SAVKRFS

>VIPR1\_HUMAN|P32241 : USER001

88 - 94 LIFKLFS

185 - 191 FILRAAA

>VIPR2\_HUMAN|P41587 : USER001

169 - 175 FILRAIS

>VIP\_HUMAN|P01282 : USER001

33 - 39 SALRLGD

>VIR\_HUMAN|Q9NWR3 : USER001

410 - 416 LIIKGLS

1241 - 1247 AILHLIN

1362 - 1368 FHLKSSL

1373 - 1379 SALHSL

>VITRN\_HUMAN|Q6UXI7 : USER001

32 - 38 KKIKRPK

>VKIND\_HUMAN|Q76NI1 : USER001

1169 - 1175 SKLKGQL

1314 - 1320 KIYRRSL

1594 - 1600 LAVRQSP

1670 - 1676 SKLRNIA

>VKOR1\_HUMAN|Q9BQB6 : USER001

25 - 31 YALHVKA

>VMAC\_HUMAN|Q2NL98 : USER001

17 - 23 AAVHRA

>VN1R3\_HUMAN|Q9BXE9 : USER001

120 - 126 LKLHAHK

206 - 212 FILHRHK

>VN1R5\_HUMAN|Q7Z5H4 : USER001

154 - 160 AKLKHPS

228 - 234 YRVHGPL

>VNN2\_HUMAN|O95498 : USER001

178 - 184 HKYHLYS

>VNN3\_HUMAN|Q9NY84 : USER001

63 - 69 KAVKLAA

>VP13A\_HUMAN|Q9H995 : USER001

55 - 61 FKVKVGH

333 - 339 YAIHGV

2151 - 2157 ARLHLKL

2153 - 2159 LHLKLLD

>VP13B\_HUMAN|Q9NWV1 : USER001

65 - 71 LRIHVPW

589 - 595 SAVHRIL

1827 - 1833 SIVKNLN



2068 - 2074 KKIKNNAH

>VP13C\_HUMAN|Q709C8 : USER001

2662 - 2668 YIIHLYP

3356 - 3362 FAVHSVN

3378 - 3384 LIFKLAY

>VP13D\_HUMAN|Q9UIM0 : USER001

1877 - 1883 LKVHSL

2052 - 2058 LKVKNKF

3051 - 3057 LIVRNRL

>VP26A\_HUMAN|O75436 : USER001

149 - 155 LIVHQLA

183 - 189 SKYHLKD

>VP26B\_HUMAN|Q4G0F5 : USER001

52 - 58 LALKNPN

181 - 187 SKYHLKD

>VP33A\_HUMAN|Q96AX1 : USER001

559 - 565 AALRFLS

>VP37A\_HUMAN|Q8NEZ2 : USER001

332 - 338 ARLKVAA

>VPP1\_HUMAN|Q93050 : USER001

801 - 807 HALRLHW

>VPP2\_HUMAN|Q9Y487 : USER001

816 - 822 HAIRLHW

>VPP3\_HUMAN|Q13488 : USER001

799 - 805 HALRLHW

>VPP4\_HUMAN|Q9HBG4 : USER001

660 - 666 FILRASH

804 - 810 HALRLHW

>VPS16\_HUMAN|Q9H269 : USER001

632 - 638 FHIRASY

>VPS35\_HUMAN|Q9NX80 : USER001

416 - 422 LKLKHFH

>VPS36\_HUMAN|Q86VN1 : USER001

301 - 307 LRLRVFD

>VPS39\_HUMAN|Q96JC1 : USER001

346 - 352 HHIKNLY

>VPS45\_HUMAN|Q9NRW7 : USER001

432 - 438 KRVRGSD

>VPS4A\_HUMAN|Q9UN37 : USER001

279 - 285 SAIRRRF

303 - 309 FRLHLGS

>VPS4B\_HUMAN|O75351 : USER001

286 - 292 SAIRRRF

363 - 369 KKVRGPS  
>VPS52\_HUMAN|Q8N1B4 : USER001  
264 - 270 LKYRFFY  
451 - 457 LRFRNIA  
686 - 692 HRFHRVL  
>VPS53\_HUMAN|Q5VIR6 : USER001  
70 - 76 LKIRRLD  
>VPS54\_HUMAN|Q9P1Q0 : USER001  
272 - 278 HILRLAL  
921 - 927 YKLHLKK  
>VPS8\_HUMAN|Q8N3P4 : USER001  
396 - 402 KHLHLYY  
450 - 456 SHFKSLA  
639 - 645 LIVHFQD  
>VSX2\_HUMAN|P58304 : USER001  
235 - 241 SILKSAK  
>VTDB\_HUMAN|P02774 : USER001  
124 - 130 AALKHQP  
>VTM2B\_HUMAN|A6NLU5 : USER001  
110 - 116 HRLRLSA  
115 - 121 SAVRLQD  
>VTM2L\_HUMAN|Q96N03 : USER001  
155 - 161 HKVKAYL  
>VTNC\_HUMAN|P04004 : USER001  
173 - 179 FAFRGQY  
>VWA1\_HUMAN|Q6PCB0 : USER001  
188 - 194 KHLHFVD  
>VWA2\_HUMAN|Q5GFL6 : USER001  
424 - 430 SALRQAA  
>VWC2\_HUMAN|Q2TAL6 : USER001  
91 - 97 SKLKQAW  
>VWF\_HUMAN|P04275 : USER001  
394 - 400 SHFKSFD  
2310 - 2316 ARLRQNA  
>WAC\_HUMAN|Q9BTA9 : USER001  
105 - 111 SALHSSN  
>WASF2\_HUMAN|Q9Y6W5 : USER001  
442 - 448 SAIRQGF  
>WASF3\_HUMAN|Q9UPY6 : USER001  
36 - 42 AIIRQLS  
>WASL\_HUMAN|O00401 : USER001  
480 - 486 KAIHSSD  
>WASP\_HUMAN|P42768 : USER001

210 - 216 SRYRGLP

>WBP7\_HUMAN|Q9UMN6 : USER001

1863 - 1869 ARIKVPN

2449 - 2455 ARLRHLS

2675 - 2681 FALRRIL

>WBS27\_HUMAN|Q8N6F8 : USER001

14 - 20 ARVRAAH

>WD21C\_HUMAN|Q8NA75 : USER001

195 - 201 HAYHSFS

>WDFY3\_HUMAN|Q9Y2J7 : USER001

811 - 817 HAYHSVS

2976 - 2982 KRVR SRL

>WDR13\_HUMAN|Q9H1Z4 : USER001

55 - 61 LRLRGQL

294 - 300 KKVKGGS

>WDR16\_HUMAN|Q8N1V2 : USER001

313 - 319 HIYRV SF

>WDR17\_HUMAN|Q8IZU2 : USER001

516 - 522 HKYKHPA

1171 - 1177 LAIRRQY

>WDR1\_HUMAN|O75083 : USER001

574 - 580 HRLHHVS

>WDR22\_HUMAN|Q96JK2 : USER001

249 - 255 LALRRRL

659 - 665 KIYKAYK

>WDR24\_HUMAN|Q96S15 : USER001

250 - 256 LRLHHSF

>WDR25\_HUMAN|Q64LD2 : USER001

132 - 138 ARFKQVK

>WDR27\_HUMAN|A2RRH5 : USER001

65 - 71 LILRGHH

241 - 247 HHYRRVA

637 - 643 KRYKQKS

>WDR35\_HUMAN|Q9P2L0 : USER001

50 - 56 AKLRGLA

773 - 779 LRLKLG D

>WDR36\_HUMAN|Q8NI36 : USER001

90 - 96 SALKRRF

>WDR38\_HUMAN|Q5JTN6 : USER001

9 - 15 LAVRRVK

>WDR3\_HUMAN|Q9UNX4 : USER001

143 - 149 YRLKGHK

235 - 241 KKIKGSS

329 - 335 AKLHSSK

363 - 369 AKIKSFD

655 - 661 HKIKQWD

>WDR43\_HUMAN|Q15061 : USER001

566 - 572 SHLHGKL

>WDR44\_HUMAN|Q8NHU5 : USER001

538 - 544 WALKNAF

764 - 770 SRIRLYD

>WDR48\_HUMAN|Q8TAF3 : USER001

670 - 676 LHYRQKS

>WDR55\_HUMAN|Q9H6Y2 : USER001

106 - 112 KAIHVLD

>WDR59\_HUMAN|Q6PJI9 : USER001

192 - 198 SKIHGLD

>WDR61\_HUMAN|Q9GZS3 : USER001

86 - 92 AHIRLWD

>WDR62\_HUMAN|O43379 : USER001

1004 - 1010 AAIHSPA

1332 - 1338 LRLHGSA

>WDR66\_HUMAN|Q8TBY9 : USER001

457 - 463 SIFHLNL

542 - 548 SHLKLGA

823 - 829 YKVKLFN

>WDR67\_HUMAN|Q96DN5 : USER001

954 - 960 FRLRSAK

>WDR68\_HUMAN|P61962 : USER001

30 - 36 KRFRLLAL

>WDR70\_HUMAN|Q9NW82 : USER001

369 - 375 FHYKQAH

587 - 593 YIVKNIA

605 - 611 AILRHAK

>WDR73\_HUMAN|Q6P4I2 : USER001

52 - 58 LHLKLPL

>WDR76\_HUMAN|Q9H967 : USER001

165 - 171 KRLKNIS

>WDR78\_HUMAN|Q5VTH9 : USER001

421 - 427 AAYRQLP

>WDR7\_HUMAN|Q9Y4E6 : USER001

281 - 287 YIYKLPA

>WDR81\_HUMAN|Q562E7 : USER001

812 - 818 HHYKSAS

>WDR87\_HUMAN|Q6ZQQ6 : USER001

827 - 833 SRVRAIS

2368 - 2374 SILRGVP

>WDTC1\_HUMAN|Q8N5D0 : USER001

114 - 120 SKVHVHD

>WEE1\_HUMAN|P30291 : USER001

325 - 331 YAIKRSK

>WFDC8\_HUMAN|Q8IUA0 : USER001

42 - 48 KKIKHKP

>WFS1\_HUMAN|O76024 : USER001

284 - 290 LRLKVVK

>WHRN\_HUMAN|Q9P202 : USER001

206 - 212 KALKGSK

>WIBG\_HUMAN|Q9BRP8 : USER001

152 - 158 KKIKNLK

>WIZ\_HUMAN|Q9BUR8 : USER001

964 - 970 KAIKSPP

>WN10B\_HUMAN|O00744 : USER001

108 - 114 AILKRGF

>WNK1\_HUMAN|Q9H4A3 : USER001

510 - 516 KKLKGKY

>WNK2\_HUMAN|Q9Y3S1 : USER001

484 - 490 KKLKGKP

1989 - 1995 SKLKAGK

>WNK3\_HUMAN|Q9BYP7 : USER001

215 - 221 SILKGKK

436 - 442 KKLKGKH

1547 - 1553 SKLRSRP

>WNT2\_HUMAN|P09544 : USER001

196 - 202 KAVKRFL

>WNT6\_HUMAN|Q9Y6F9 : USER001

80 - 86 FRFRRWN

>WNT9A\_HUMAN|O14904 : USER001

241 - 247 KHLKHKY

>WNT9B\_HUMAN|O14905 : USER001

200 - 206 KAVKSGL

244 - 250 SAVKVSS

>WRIP1\_HUMAN|Q96S55 : USER001

78 - 84 SALKQPA

616 - 622 LHLRNAP

>WSB2\_HUMAN|Q9NYS7 : USER001

375 - 381 KALRSFL

>WSCD2\_HUMAN|Q2TBF2 : USER001

548 - 554 AALKGRN

>WWC1\_HUMAN|Q8IX03 : USER001

1075 - 1081 HRLRGQS

>WVOX\_HUMAN|Q9NRF6 : USER001

144 - 150 FALHGAH

>WWP1\_HUMAN|Q9H0M0 : USER001

27 - 33 AKLKRKK

>WWTR1\_HUMAN|Q9GZV5 : USER001

111 - 117 AHLRQQS

>XAB2\_HUMAN|Q9HCS7 : USER001

242 - 248 AIIRGGL

>XBP1\_HUMAN|P17861 : USER001

72 - 78 KALRRKL

165 - 171 AALRLRA

167 - 173 LRLRAPL

>XDH\_HUMAN|P47989 : USER001

64 - 70 KIVHFSA

419 - 425 SAFKQAS

616 - 622 AKIKSID

845 - 851 ARYKVGf

>XIRP1\_HUMAN|Q8N904 : USER001

969 - 975 SIIHVPP

>XIRP2\_HUMAN|A4UGR9 : USER001

1964 - 1970 FHIKSPK

2465 - 2471 KRLHHVL

>XKR2\_HUMAN|Q6PP77 : USER001

231 - 237 YKIRLGP

265 - 271 LKLKAVP

>XKR3\_HUMAN|Q5GH77 : USER001

260 - 266 LKLKSLP

323 - 329 SAVKLQL

>XKR8\_HUMAN|Q9H6D3 : USER001

285 - 291 AIIHFAF

331 - 337 LALRLVY

>XKR9\_HUMAN|Q5GH70 : USER001

94 - 100 FALKRGY

>XKRY\_HUMAN|O14609 : USER001

131 - 137 SAVKLQL

>XPC\_HUMAN|Q01831 : USER001

110 - 116 HHLKRGa

647 - 653 YALKRHL

>XPO1\_HUMAN|O14980 : USER001

250 - 256 LIYKFLN

>XPO6\_HUMAN|Q96QU8 : USER001

430 - 436 SKIKSRL

710 - 716 SALRLVD  
>XPO7\_HUMAN|Q9UIA9 : USER001  
335 - 341 ARLKSNY  
827 - 833 LKLKGIS  
>XPP1\_HUMAN|Q9NQW7 : USER001  
319 - 325 KAVKNSA  
>XPP2\_HUMAN|O43895 : USER001  
354 - 360 KAVKNSK  
>XPP3\_HUMAN|Q9NQH7 : USER001  
72 - 78 YALRRHK  
>XPR1\_HUMAN|Q9UBH6 : USER001  
216 - 222 KRLRVPP  
>XRCC3\_HUMAN|O43542 : USER001  
19 - 25 AKLKSVK  
55 - 61 LHLRGSS  
>XRCC4\_HUMAN|Q13426 : USER001  
6 - 12 SRIHLVS  
>XRN1\_HUMAN|Q8IZH2 : USER001  
663 - 669 KHIRHKF  
>XRR1\_HUMAN|Q6P2D8 : USER001  
223 - 229 YILRFPA  
>XTP3B\_HUMAN|Q96DZ1 : USER001  
129 - 135 KHIRQYH  
249 - 255 YRFRASP  
360 - 366 KHVHQYH  
>XYLB\_HUMAN|O75191 : USER001  
122 - 128 LRLHQQL  
476 - 482 SAYRAFH  
>XYLT1\_HUMAN|Q86Y38 : USER001  
856 - 862 LKLHNGP  
>YAP1\_HUMAN|P46937 : USER001  
296 - 302 LALRSQL  
>YB003\_HUMAN|Q6UY13 : USER001  
49 - 55 LRVKGIY  
>YB004\_HUMAN|Q6UWF6 : USER001  
62 - 68 SHLRSSP  
>YB008\_HUMAN|Q53TQ3 : USER001  
584 - 590 SHIRSPS  
>YB011\_HUMAN|Q6ZRH9 : USER001  
261 - 267 AAVHVPP  
>YB012\_HUMAN|Q8IXR5 : USER001  
97 - 103 LKIKNPF  
574 - 580 HIYKFLA

>YB015\_HUMAN|Q6ZWB7 : USER001  
33 - 39 AAFRAGW  
>YB016\_HUMAN|Q05C16 : USER001  
373 - 379 LKLRNNP  
>YB018\_HUMAN|Q6GMV3 : USER001  
134 - 140 KKFRLF  
>YC009\_HUMAN|Q8N9V7 : USER001  
1242 - 1248 YIVKLLY  
1555 - 1561 AHYKSAL  
>YC011\_HUMAN|Q6ZT21 : USER001  
2 - 8 AIFRQLS  
>YE003\_HUMAN|Q4G0S7 : USER001  
210 - 216 SIYRRKL  
>YG001\_HUMAN|Q9UHT4 : USER001  
50 - 56 FKIHVPS  
>YI003\_HUMAN|Q6UXD1 : USER001  
98 - 104 HHLHHHH  
>YIPF2\_HUMAN|Q9BWQ6 : USER001  
113 - 119 HHLRNR  
>YK004\_HUMAN|Q6ZVH6 : USER001  
40 - 46 SHLHVQA  
>YL001\_HUMAN|Q0VFX0 : USER001  
130 - 136 AKLRAPK  
>YM002\_HUMAN|Q9BVW6 : USER001  
46 - 52 SKIKGSP  
>YMEL1\_HUMAN|Q96TA2 : USER001  
418 - 424 SRIRNLF  
>YO005\_HUMAN|Q7Z4M0 : USER001  
96 - 102 KIVRRVD  
>YO007\_HUMAN|Q9UFV3 : USER001  
32 - 38 SRLKLLL  
>YP005\_HUMAN|Q6ZW13 : USER001  
44 - 50 SHYHHSP  
>YP007\_HUMAN|Q6ZSR6 : USER001  
141 - 147 SALHGGD  
>YP009\_HUMAN|Q6ZNL0 : USER001  
144 - 150 SHFRLSA  
207 - 213 SHVRFVF  
327 - 333 WKIRVWH  
389 - 395 LRFRRLL  
>YP015\_HUMAN|Q6ZTK2 : USER001  
243 - 249 SHLKVQY  
>YS007\_HUMAN|Q9Y2P0 : USER001



251 - 257 KA FRNRS

279 - 285 KA FRFSS

>YS010\_HUMAN|Q6ZNA1 : USER001

225 - 231 KA FRVSS

253 - 259 KA FHRGS

281 - 287 KI FRQNS

505 - 511 KA FKQGS

710 - 716 AR YHRNP

813 - 819 KA FRVRS

815 - 821 FR VRSIL

>YS013\_HUMAN|A5D8V7 : USER001

575 - 581 LK IRSQK

>YS015\_HUMAN|Q96EG3 : USER001

426 - 432 KA FKGRS

>YS016\_HUMAN|Q86XI8 : USER001

195 - 201 AK VKLVF

>YS018\_HUMAN|Q86YV0 : USER001

65 - 71 SI FRRLV

81 - 87 SRL RLSK

938 - 944 SRL RAGS

>YSK4\_HUMAN|Q56UN5 : USER001

747 - 753 KA VHSNL

1116 - 1122 KA LKHVN

>YTDC2\_HUMAN|Q9H6S0 : USER001

240 - 246 KK VRFHP

266 - 272 AA IKALP

>YTHD1\_HUMAN|Q9BYJ9 : USER001

392 - 398 FI IKSYS

>YTHD2\_HUMAN|Q9Y5A9 : USER001

190 - 196 AA LKLGs

413 - 419 FI IKSYS

>YTHD3\_HUMAN|Q7Z739 : USER001

419 - 425 FI IKSYS

450 - 456 AA YRSLN

>YX003\_HUMAN|Q86X51 : USER001

222 - 228 SA LRRA

>Z280C\_HUMAN|Q8ND82 : USER001

430 - 436 AH FRAAH

>Z285A\_HUMAN|Q96NJ3 : USER001

344 - 350 FH LHQRD

>Z324A\_HUMAN|O75467 : USER001

320 - 326 KA FRHSS

>Z324B\_HUMAN|Q6AW86 : USER001

320 - 326 KAFRHSS

>Z354A\_HUMAN|O60765 : USER001

107 - 113 LILKRSN

473 - 479 KAFRQSS

>Z354B\_HUMAN|Q96LW1 : USER001

473 - 479 KAFRQSS

>Z385B\_HUMAN|Q569K4 : USER001

60 - 66 KRVKQLS

174 - 180 AHYKGSK

183 - 189 KKVKALD

>Z385C\_HUMAN|Q66K41 : USER001

94 - 100 AHYKGHK

341 - 347 SILKSKL

>Z397O\_HUMAN|Q86W11 : USER001

364 - 370 KAFRGSS

>Z3H7A\_HUMAN|Q8IWR0 : USER001

621 - 627 SKIRSFH

>Z512B\_HUMAN|Q96KM6 : USER001

453 - 459 ARVHRSK

>Z518A\_HUMAN|Q6AHZ1 : USER001

43 - 49 YALKNVK

313 - 319 LILKRYK

>Z518B\_HUMAN|Q9C0D4 : USER001

123 - 129 SKFKVRN

125 - 131 FKVRNFK

>Z658B\_HUMAN|Q4V348 : USER001

375 - 381 SALRAHH

627 - 633 SALRAHH

655 - 661 SHLRAHL

795 - 801 AALRVHH

>Z705A\_HUMAN|Q6ZN79 : USER001

185 - 191 FRLRRHK

>Z780A\_HUMAN|O75290 : USER001

511 - 517 KAFRLYL

>Z780B\_HUMAN|Q9Y6R6 : USER001

536 - 542 KAFRLHL

538 - 544 FRLHLQL

788 - 794 KAFRLHL

790 - 796 FRLHLQL

>Z804B\_HUMAN|A4D1E1 : USER001

110 - 116 KALKRLH

113 - 119 KRLHQLA

225 - 231 KKVHLKL

1176 - 1182 KHLRVLP

1306 - 1312 SIIHLNP

>ZADH2\_HUMAN|Q8N4Q0 : USER001

348 - 354 SIFRAVN

>ZAN\_HUMAN|Q9BXN9 : USER001

292 - 298 YILRGQS

1370 - 1376 LHVKAAS

>ZAR1\_HUMAN|Q86SH2 : USER001

247 - 253 AAVRASW

>ZBED1\_HUMAN|O96006 : USER001

110 - 116 LAVKAGH

>ZBED5\_HUMAN|Q49AG3 : USER001

88 - 94 SRVKFIS

147 - 153 SKLRRHL

457 - 463 SAFRLSD

>ZBT10\_HUMAN|Q96DT7 : USER001

373 - 379 KIFKAHK

>ZBT11\_HUMAN|O95625 : USER001

505 - 511 SRLRQRS

688 - 694 FIYKHGL

694 - 700 LKLHQSL

811 - 817 SHVKSHS

>ZBT12\_HUMAN|Q9Y330 : USER001

42 - 48 LKFRGHK

>ZBT17\_HUMAN|Q13105 : USER001

109 - 115 HALKSLA

>ZBT24\_HUMAN|O43167 : USER001

309 - 315 LAIHQRS

>ZBT26\_HUMAN|Q9HCK0 : USER001

371 - 377 KHLKQLH

>ZBT34\_HUMAN|Q8NCN2 : USER001

192 - 198 KALRSRL

>ZBT41\_HUMAN|Q5SVQ8 : USER001

439 - 445 KHVKRFH

592 - 598 LHLRVHH

675 - 681 KIFKGKS

>ZBT43\_HUMAN|O43298 : USER001

42 - 48 HIFRAHK

>ZBT44\_HUMAN|Q8NCP5 : USER001

40 - 46 KIFRAHK

502 - 508 LIVHLRS

>ZBT45\_HUMAN|Q96K62 : USER001

8 - 14 HHIHLQN

151 - 157 HRLRHLL  
>ZBT46\_HUMAN|Q86UZ6 : USER001  
12 - 18 SHYRHLL  
>ZBT47\_HUMAN|Q9UFB7 : USER001  
134 - 140 KIVHGYA  
>ZBT48\_HUMAN|P10074 : USER001  
306 - 312 LKVHNRK  
>ZBT7A\_HUMAN|O95365 : USER001  
374 - 380 KKIRAKA  
>ZBTB5\_HUMAN|O15062 : USER001  
104 - 110 SHLHLNS  
>ZBTB8\_HUMAN|Q8NAP8 : USER001  
275 - 281 YHVKQFL  
>ZBTB9\_HUMAN|Q96C00 : USER001  
418 - 424 KRFKCLKH  
420 - 426 FKLKHHL  
>ZC12B\_HUMAN|Q5HYM0 : USER001  
219 - 225 FIVKLAF  
550 - 556 LKLHRSA  
595 - 601 LALHAQH  
>ZC3H3\_HUMAN|Q8IXZ2 : USER001  
437 - 443 SAYKVKS  
>ZC3H8\_HUMAN|Q8N5P1 : USER001  
51 - 57 KKFRHSA  
>ZCC2\_HUMAN|Q7Z2W4 : USER001  
528 - 534 SKVHFHL  
>ZCH11\_HUMAN|Q5TAX3 : USER001  
406 - 412 FALKSSD  
1036 - 1042 KILKRHP  
>ZCH12\_HUMAN|Q6PEW1 : USER001  
188 - 194 LRLRLKD  
>ZCHC2\_HUMAN|Q9C0B9 : USER001  
209 - 215 AALRGGP  
>ZCHC6\_HUMAN|Q96N57 : USER001  
1110 - 1116 FHLRSGL  
>ZCHC8\_HUMAN|Q6NZY4 : USER001  
686 - 692 LRIRSL  
>ZDBF2\_HUMAN|Q9HCK1 : USER001  
298 - 304 LRVKSPS  
1718 - 1724 SALHRRA  
1730 - 1736 SKLKHRD  
>ZDH13\_HUMAN|Q8IUH4 : USER001  
122 - 128 WAIRQGH

>ZDH15\_HUMAN|Q96MV8 : USER001  
209 - 215 SKFHVLF

>ZDH20\_HUMAN|Q5W0Z9 : USER001  
206 - 212 AKFHVLF

>ZDH22\_HUMAN|Q8N966 : USER001  
2 - 8 LALRLLN

>ZDH23\_HUMAN|Q8IYP9 : USER001  
183 - 189 LALHRAK

>ZDHC6\_HUMAN|Q9H6R6 : USER001  
382 - 388 SRIRGWF

>ZDHC7\_HUMAN|Q9NXF8 : USER001  
290 - 296 FRFRRLP

>ZDHC8\_HUMAN|Q9ULC8 : USER001  
281 - 287 LKVKLSD

>ZEB1\_HUMAN|P37275 : USER001  
249 - 255 FKYKHHL  
939 - 945 KAFKHKH

>ZEB2\_HUMAN|O60315 : USER001  
291 - 297 FKYKHHL  
484 - 490 SKLKGYH  
1034 - 1040 KAFKHKH

>ZEP1\_HUMAN|P15822 : USER001  
1090 - 1096 SHIHLVA

>ZEP2\_HUMAN|P31629 : USER001  
241 - 247 HAIKAGL  
940 - 946 KRLRLAD

>ZER1\_HUMAN|Q7Z7L7 : USER001  
175 - 181 SRLRFLN  
246 - 252 HKLRHLD

>ZF161\_HUMAN|O43829 : USER001  
368 - 374 KAFKHKS

>ZF64B\_HUMAN|Q9NTW7 : USER001  
486 - 492 SRLHQAD  
508 - 514 AALRVHS

>ZFHX2\_HUMAN|Q9C0A1 : USER001  
1367 - 1373 SHLRSSA

>ZFHX3\_HUMAN|Q15911 : USER001  
1571 - 1577 HKLKRAL  
2728 - 2734 AHIRSRH

>ZFHX4\_HUMAN|Q86UP3 : USER001  
999 - 1005 AALKLYK  
2097 - 2103 KILRAYF  
2647 - 2653 SHIRSRH

>ZFP14\_HUMAN|Q9HCL3 : USER001

265 - 271 FRVHQQQL

377 - 383 FRLRQQQL

431 - 437 KAFRLLS

487 - 493 KAFRLYS

515 - 521 KAQRQHS

>ZFP1\_HUMAN|Q6P2D0 : USER001

170 - 176 AIFKHQK

255 - 261 LIVHQRA

>ZFP2\_HUMAN|Q6ZN57 : USER001

257 - 263 LIVHQRS

>ZFP30\_HUMAN|Q9Y2G7 : USER001

167 - 173 FRVRQQQL

251 - 257 FRVRGQL

277 - 283 KAQRQYA

313 - 319 LRLHHKL

335 - 341 FRVRQQQL

417 - 423 KAFLRFS

473 - 479 KAFLRHS

475 - 481 FRLHSSL

501 - 507 KAQRQHS

>ZFP37\_HUMAN|Q9Y6Q3 : USER001

149 - 155 KILKQNL

>ZFP3\_HUMAN|Q96NJ6 : USER001

288 - 294 KAFLKHSS

372 - 378 KAQRGNS

>ZFP41\_HUMAN|Q8N8Y5 : USER001

122 - 128 KAFLRHSS

>ZFP42\_HUMAN|Q96MM3 : USER001

230 - 236 SKLKRHF

>ZFP62\_HUMAN|Q8NB50 : USER001

54 - 60 KAFLRNSS

166 - 172 KAFLRNSS

258 - 264 LKVHRRL

334 - 340 KAFLRNNS

558 - 564 KAFLRNSS

>ZFP90\_HUMAN|Q8TF47 : USER001

289 - 295 KAFLRHSS

>ZFR\_HUMAN|Q96KR1 : USER001

399 - 405 AHIRGAK

904 - 910 AALRHAK

1016 - 1022 FALRLLA

1021 - 1027 LAFLRQIH

>ZFX\_HUMAN|P17010 : USER001  
539 - 545 LAVHSKN

>ZFY16\_HUMAN|Q7Z3T8 : USER001  
362 - 368 SALHVSS

>ZFY26\_HUMAN|Q68DK2 : USER001  
434 - 440 YHLHGGD  
724 - 730 SRLHRLS  
2018 - 2024 AAYRHVP

>ZFY27\_HUMAN|Q96M08 : USER001  
169 - 175 AAYRVLH

>ZFY28\_HUMAN|Q9HCC9 : USER001  
718 - 724 SRFHGSH

>ZFYV1\_HUMAN|Q9HBF4 : USER001  
398 - 404 KALKALS

>ZFY\_HUMAN|P08048 : USER001  
535 - 541 LAVHSKN

>ZG14\_HUMAN|Q9Y3A4 : USER001  
133 - 139 LALKGPL

>ZHANG\_HUMAN|Q9NS37 : USER001  
152 - 158 SRVRGLA

>ZHX2\_HUMAN|Q9Y6X8 : USER001  
139 - 145 FKLKLIK  
452 - 458 AHLKASF

>ZHX3\_HUMAN|Q9H4I2 : USER001  
284 - 290 HHVHQPL  
468 - 474 SAVKVVN  
495 - 501 SIYKNKK  
507 - 513 SALKGSF

>ZIC1\_HUMAN|Q15915 : USER001  
285 - 291 AKYKLVN

>ZIC2\_HUMAN|O95409 : USER001  
316 - 322 AKYKLVN

>ZIC3\_HUMAN|O60481 : USER001  
54 - 60 AAFKLSP  
311 - 317 AKYKLVN

>ZIC4\_HUMAN|Q8N9L1 : USER001  
187 - 193 AKYKLVN

>ZIC5\_HUMAN|Q96T25 : USER001  
49 - 55 AHLRLRD  
450 - 456 AKYKLIN

>ZIK1\_HUMAN|Q3SY52 : USER001  
246 - 252 KAFRGKY

>ZIM3\_HUMAN|Q96PE6 : USER001

184 - 190 SHLRRHA

>ZKSC1\_HUMAN|P17029 : USER001

178 - 184 SHFKHSS

>ZKSC2\_HUMAN|Q63HK3 : USER001

299 - 305 SILRSNY

>ZKSC3\_HUMAN|Q9BRR0 : USER001

433 - 439 KAFRRSS

>ZKSC4\_HUMAN|Q969J2 : USER001

439 - 445 KAFRRNS

>ZKSC5\_HUMAN|Q9Y2L8 : USER001

267 - 273 LIVKQIS

409 - 415 KAFRVSS

612 - 618 KAFRVRS

614 - 620 FRVRS HL

>ZMAT3\_HUMAN|Q9HA38 : USER001

96 - 102 KKLRNYY

>ZMAT4\_HUMAN|Q9H898 : USER001

40 - 46 SKVRLYY

101 - 107 KRLKLLL

215 - 221 AHLKGSK

>ZMY10\_HUMAN|O75800 : USER001

290 - 296 LKLRAFL

>ZMY12\_HUMAN|Q9H0C1 : USER001

115 - 121 LRFRVKL

191 - 197 ARYHLAN

>ZMY15\_HUMAN|Q9H091 : USER001

636 - 642 FRLRAAD

652 - 658 FIFHLVY

>ZMYM1\_HUMAN|Q5SVZ6 : USER001

219 - 225 SKFHSA N

722 - 728 LKIKFNK

>ZMYM3\_HUMAN|Q14202 : USER001

438 - 444 SKFRANK

>ZMYM4\_HUMAN|Q5VZL5 : USER001

192 - 198 SRLKSSF

473 - 479 SKFRSAN

1112 - 1118 YALKSNA

>ZN107\_HUMAN|Q9UII5 : USER001

195 - 201 KAFKQAS

531 - 537 KAFKQSS

>ZN117\_HUMAN|Q03924 : USER001

312 - 318 KAFKQFS

>ZN131\_HUMAN|P52739 : USER001



43 - 49 HHFKAHK  
219 - 225 SKYRQGD  
>ZN136\_HUMAN|P52737 : USER001  
343 - 349 KAFRSAS  
483 - 489 KAFRSSS  
>ZN137\_HUMAN|P52743 : USER001  
107 - 113 KIFRHRS  
>ZN138\_HUMAN|P52744 : USER001  
173 - 179 KAFHQSS  
201 - 207 KAFKQSS  
>ZN140\_HUMAN|P52738 : USER001  
308 - 314 KAFRRFS  
>ZN141\_HUMAN|Q15928 : USER001  
346 - 352 KAFRQSS  
414 - 420 KKIHSAD  
430 - 436 KAFKQFS  
458 - 464 KAFKRFS  
>ZN142\_HUMAN|P52746 : USER001  
182 - 188 LHLHFPD  
805 - 811 KALRRQD  
1246 - 1252 HRLRVHD  
1304 - 1310 HALRRHP  
1638 - 1644 KHVRRHH  
>ZN155\_HUMAN|Q12901 : USER001  
301 - 307 SRLKSHS  
>ZN157\_HUMAN|P51786 : USER001  
367 - 373 FRVHSSL  
>ZN160\_HUMAN|Q9HCG1 : USER001  
348 - 354 KAFRGHS  
768 - 774 KAFRVRS  
770 - 776 FRVRSSL  
>ZN165\_HUMAN|P49910 : USER001  
351 - 357 KAFRHSS  
>ZN167\_HUMAN|Q9P0L1 : USER001  
446 - 452 KAYRHSS  
>ZN174\_HUMAN|Q15697 : USER001  
401 - 407 HRLHHGD  
>ZN175\_HUMAN|Q9Y473 : USER001  
462 - 468 LIVHQRS  
>ZN177\_HUMAN|Q13360 : USER001  
271 - 277 KAFRNSS  
>ZN179\_HUMAN|Q9ULX5 : USER001  
485 - 491 SALRVLP

>ZN184\_HUMAN|Q99676 : USER001  
735 - 741 FRYRSAL  
>ZN185\_HUMAN|O15231 : USER001  
302 - 308 SRVRSPS  
>ZN187\_HUMAN|Q16670 : USER001  
429 - 435 KAFRLNS  
>ZN193\_HUMAN|O15535 : USER001  
38 - 44 SRLKRSN  
>ZN197\_HUMAN|O14709 : USER001  
665 - 671 LILHQRF  
>ZN200\_HUMAN|P98182 : USER001  
16 - 22 FILRVPP  
>ZN202\_HUMAN|O95125 : USER001  
582 - 588 KHLRGHA  
>ZN212\_HUMAN|Q9UDV6 : USER001  
124 - 130 WILRLPP  
325 - 331 FRYKQQL  
>ZN214\_HUMAN|Q9UL59 : USER001  
345 - 351 LHIHQRL  
595 - 601 SHLHNNH  
>ZN215\_HUMAN|Q9UL58 : USER001  
183 - 189 SAVKNLY  
>ZN219\_HUMAN|Q9P2Y4 : USER001  
64 - 70 KRFRFNS  
72 - 78 LALHLRA  
74 - 80 LHLRAHP  
183 - 189 HILHRPW  
511 - 517 HHLKVHL  
>ZN221\_HUMAN|Q9UK13 : USER001  
319 - 325 FRVRSRL  
>ZN222\_HUMAN|Q9UK12 : USER001  
432 - 438 KRYKRRL  
>ZN223\_HUMAN|Q9UK11 : USER001  
463 - 469 KRYKRRL  
>ZN225\_HUMAN|Q9UK10 : USER001  
687 - 693 KRYKRRL  
>ZN226\_HUMAN|Q9NYT6 : USER001  
774 - 780 HRIHVGD  
>ZN229\_HUMAN|Q9UJW7 : USER001  
358 - 364 FRYKSVL  
>ZN230\_HUMAN|Q9UIE0 : USER001  
455 - 461 KRYKRRL  
>ZN234\_HUMAN|Q14588 : USER001

435 - 441 KAFRQSS  
443 - 449 LKIHLLKA  
>ZN236\_HUMAN|Q9UL36 : USER001  
176 - 182 YKIRVSS  
604 - 610 AKVRVGGK  
>ZN248\_HUMAN|Q8NDW4 : USER001  
312 - 318 FIIHQGA  
>ZN250\_HUMAN|P15622 : USER001  
262 - 268 KAFRVSS  
>ZN251\_HUMAN|Q9BRH9 : USER001  
397 - 403 KAFRRSS  
>ZN253\_HUMAN|O75346 : USER001  
179 - 185 KAFKRSS  
>ZN254\_HUMAN|O75437 : USER001  
385 - 391 KAFKQLS  
553 - 559 KAFKQSS  
>ZN256\_HUMAN|Q9Y2P7 : USER001  
70 - 76 KHVRVQH  
>ZN268\_HUMAN|Q14587 : USER001  
487 - 493 LIVHQRS  
507 - 513 KAFRSKS  
683 - 689 LIVHQRS  
703 - 709 KAFRSKS  
>ZN273\_HUMAN|Q14593 : USER001  
400 - 406 SAFRAFS  
>ZN274\_HUMAN|Q96GC6 : USER001  
598 - 604 KAFRQSS  
>ZN275\_HUMAN|Q9NSD4 : USER001  
139 - 145 FRLKVLL  
357 - 363 KAFRQSS  
385 - 391 KAFRGPS  
413 - 419 KAFRRSS  
>ZN277\_HUMAN|Q9NRM2 : USER001  
425 - 431 YALKQSS  
>ZN281\_HUMAN|Q9Y2X9 : USER001  
268 - 274 AAFRSSY  
>ZN282\_HUMAN|Q9UDV7 : USER001  
533 - 539 LIIHRS  
>ZN283\_HUMAN|Q8N7M2 : USER001  
82 - 88 SIFRNNW  
>ZN287\_HUMAN|Q9HBT7 : USER001  
648 - 654 KAYRQGA  
>ZN292\_HUMAN|O60281 : USER001

1228 - 1234 LKIKRPY

1848 - 1854 SAVKQKK

>ZN294\_HUMAN|O94822 : USER001

132 - 138 LILKVKK

230 - 236 LALKRLL

>ZN295\_HUMAN|Q9ULJ3 : USER001

405 - 411 HRLRSFS

677 - 683 KAYRFLS

>ZN300\_HUMAN|Q96RE9 : USER001

396 - 402 LIIHHRA

>ZN311\_HUMAN|Q5JNZ3 : USER001

618 - 624 KAFRVSS

>ZN317\_HUMAN|Q96PQ6 : USER001

263 - 269 SALRSA

509 - 515 KAARNQS

>ZN318\_HUMAN|Q5VUA4 : USER001

1933 - 1939 SRYRSLK

>ZN319\_HUMAN|Q9P2F9 : USER001

322 - 328 KAFKRPS

435 - 441 KAYKRAS

>ZN320\_HUMAN|A2RRD8 : USER001

142 - 148 SRFHLHL

>ZN329\_HUMAN|Q86UD4 : USER001

498 - 504 LAVHQRL

>ZN331\_HUMAN|Q9NQX6 : USER001

222 - 228 KAARRGD

>ZN333\_HUMAN|Q96JL9 : USER001

437 - 443 LILHQRN

625 - 631 KAARRHS

>ZN335\_HUMAN|Q9H4Z2 : USER001

480 - 486 LRFHVNS

542 - 548 AAVHSRD

>ZN337\_HUMAN|Q9Y3M9 : USER001

309 - 315 KHLKAHS

505 - 511 KHLRAHL

730 - 736 KHLKRHL

>ZN342\_HUMAN|Q8WUU4 : USER001

462 - 468 KHLRQKH

>ZN345\_HUMAN|Q14585 : USER001

321 - 327 KAARRGS

>ZN346\_HUMAN|Q9UL40 : USER001

162 - 168 LKLKQQS

>ZN347\_HUMAN|Q96SE7 : USER001

380 - 386 KAFRARS  
492 - 498 KAFRAHS  
>ZN362\_HUMAN|Q5T0B9 : USER001  
363 - 369 HAIKHAK  
>ZN366\_HUMAN|Q8N895 : USER001  
434 - 440 HHLKQHS  
>ZN384\_HUMAN|Q8TF68 : USER001  
336 - 342 LRIHSGA  
352 - 358 KAFRQLS  
>ZN395\_HUMAN|Q9H8N7 : USER001  
302 - 308 KALHLGD  
>ZN397\_HUMAN|Q8NF99 : USER001  
432 - 438 KAFRQSS  
516 - 522 KAFRHRS  
>ZN398\_HUMAN|Q8TD17 : USER001  
126 - 132 WILRLPP  
415 - 421 YHLRVHN  
>ZN404\_HUMAN|Q494X3 : USER001  
194 - 200 KAARFYYS  
222 - 228 KAARRHS  
392 - 398 FKLHSYL  
474 - 480 KAARFSS  
>ZN406\_HUMAN|Q9P243 : USER001  
280 - 286 FKFKHSL  
308 - 314 SAIKANL  
>ZN407\_HUMAN|Q9C0G0 : USER001  
751 - 757 KHIKRSK  
1034 - 1040 LHVKRKH  
1503 - 1509 LHIKGQH  
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52 - 58 LALKSLP  
307 - 313 KKLHSPS  
>ZN416\_HUMAN|Q9BWM5 : USER001  
565 - 571 LILHRKS  
>ZN417\_HUMAN|Q8TAU3 : USER001  
417 - 423 FRYRSHL  
505 - 511 SALHVHK  
>ZN419\_HUMAN|Q96HQ0 : USER001  
294 - 300 KAARHNS  
>ZN420\_HUMAN|Q8TAQ5 : USER001  
146 - 152 KAARRAS  
>ZN423\_HUMAN|Q2M1K9 : USER001  
312 - 318 AHIHQAH

739 - 745 LAVKHSN  
>ZN425\_HUMAN|Q6IV72 : USER001  
283 - 289 FRYRANL  
423 - 429 FRLKRSL  
619 - 625 FRLKGNL  
681 - 687 LKVHLYK  
>ZN428\_HUMAN|Q96B54 : USER001  
65 - 71 YKVKQRL  
>ZN429\_HUMAN|Q86V71 : USER001  
460 - 466 KAFKQSS  
>ZN430\_HUMAN|Q9H8G1 : USER001  
268 - 274 KAFKQSS  
>ZN431\_HUMAN|Q8TF32 : USER001  
267 - 273 KAFKQSS  
>ZN432\_HUMAN|O94892 : USER001  
304 - 310 LIVHQRN  
416 - 422 LIVHQRN  
522 - 528 FAFKSNL  
>ZN433\_HUMAN|Q8N7K0 : USER001  
429 - 435 KAFRSAS  
541 - 547 KAFRSAS  
>ZN439\_HUMAN|Q8NDP4 : USER001  
417 - 423 KAFRSAP  
445 - 451 KAFRSAS  
>ZN440\_HUMAN|Q8IYI8 : USER001  
403 - 409 KAFRSAS  
>ZN441\_HUMAN|Q8N8Z8 : USER001  
387 - 393 KAFRSSN  
>ZN444\_HUMAN|Q8N0Y2 : USER001  
21 - 27 HRFRRFH  
>ZN445\_HUMAN|P59923 : USER001  
500 - 506 LAYHQRL  
548 - 554 KAFRRLS  
718 - 724 FAYRSAF  
769 - 775 KAARNHS  
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386 - 392 HKVRVIN  
518 - 524 SRIHGGA  
631 - 637 HKFHRYYS  
>ZN452\_HUMAN|Q6R2W3 : USER001  
38 - 44 SALRRNL  
458 - 464 KIVHGKS  
596 - 602 SRLRFLS

727 - 733 KRVHASF

774 - 780 SKLKRHL

818 - 824 SALRASY

>ZN454\_HUMAN|Q8N9F8 : USER001

363 - 369 KAFRVNS

>ZN461\_HUMAN|Q8TAF7 : USER001

308 - 314 KAFRQRS

476 - 482 KAFRLHS

478 - 484 FRLHSHL

>ZN462\_HUMAN|Q96JM2 : USER001

524 - 530 YRIKHNN

940 - 946 SAFRHNL

978 - 984 HILKAHA

1009 - 1015 LKVHGKA

>ZN467\_HUMAN|Q7Z7K2 : USER001

175 - 181 LRLHQRL

>ZN468\_HUMAN|Q5VIY5 : USER001

482 - 488 LIIHRRL

>ZN470\_HUMAN|Q6ECI4 : USER001

375 - 381 KAFRQNA

600 - 606 KAFRQRA

>ZN471\_HUMAN|Q9BX82 : USER001

297 - 303 KAFRQPA

606 - 612 KAFRRKL

>ZN473\_HUMAN|Q8WTR7 : USER001

382 - 388 KIFRHSS

614 - 620 SRVRLYK

>ZN480\_HUMAN|Q8WV37 : USER001

443 - 449 KAFRHKL

>ZN483\_HUMAN|Q8TF39 : USER001

39 - 45 AILRGNA

319 - 325 KHLRVYL

586 - 592 KAFRQNS

>ZN484\_HUMAN|Q5JVG2 : USER001

679 - 685 LHIHQQS

>ZN485\_HUMAN|Q8NCK3 : USER001

177 - 183 HKVHAGK

389 - 395 KAFRHSS

423 - 429 SALKQHK

>ZN491\_HUMAN|Q8N8L2 : USER001

334 - 340 KAFRSAK

>ZN492\_HUMAN|Q9P255 : USER001

344 - 350 KAFKQSS

>ZN493\_HUMAN|Q6ZR52 : USER001  
340 - 346 KAFKRSS  
396 - 402 KAFKRSS  
508 - 514 KAFKRSS  
620 - 626 KAFRRSS  
>ZN496\_HUMAN|Q96IT1 : USER001  
542 - 548 SHFHLKD  
>ZN497\_HUMAN|Q6ZNH5 : USER001  
169 - 175 KAFRAQS  
265 - 271 LKIHAGA  
393 - 399 KAFRGSS  
421 - 427 KAFRGSS  
>ZN498\_HUMAN|Q6NSZ9 : USER001  
473 - 479 LAVHRRRA  
>ZN503\_HUMAN|Q96F45 : USER001  
8 - 14 SALRSSK  
460 - 466 AALKSGY  
587 - 593 LALRSPH  
>ZN506\_HUMAN|Q5JVG8 : USER001  
208 - 214 KAYKQSS  
>ZN507\_HUMAN|Q8TCN5 : USER001  
386 - 392 LRLHSLA  
602 - 608 FHYKSQL  
>ZN509\_HUMAN|Q6ZSB9 : USER001  
214 - 220 YKLRNFY  
305 - 311 KAIHLKK  
>ZN510\_HUMAN|Q9Y2H8 : USER001  
391 - 397 HRVRRRS  
>ZN512\_HUMAN|Q96ME7 : USER001  
302 - 308 LAYHLRS  
>ZN516\_HUMAN|Q92618 : USER001  
191 - 197 LHVHQAHA  
534 - 540 SRVHRRRA  
>ZN517\_HUMAN|Q6ZMY9 : USER001  
212 - 218 KAFKQSS  
431 - 437 KAFRRSY  
>ZN519\_HUMAN|Q8TB69 : USER001  
250 - 256 SHLKGHK  
>ZN521\_HUMAN|Q96K83 : USER001  
741 - 747 LAVKHSN  
769 - 775 LHVKHNH  
>ZN525\_HUMAN|Q8N782 : USER001  
24 - 30 KAFRHNS



>ZN527\_HUMAN|Q8NB42 : USER001

305 - 311 KAFRQSA

361 - 367 KAFRQSA

529 - 535 KAFHQIL

>ZN528\_HUMAN|Q3MIS6 : USER001

474 - 480 FRYKSSL

>ZN529\_HUMAN|Q6P280 : USER001

258 - 264 FRVHAQL

286 - 292 FRFHSQL

452 - 458 KAFRHSS

480 - 486 KAFRHSS

>ZN532\_HUMAN|Q9HCE3 : USER001

492 - 498 AIIKAAN

>ZN536\_HUMAN|O15090 : USER001

137 - 143 KRFRFNS

764 - 770 HHLKVHL

>ZN540\_HUMAN|Q8NDQ6 : USER001

542 - 548 LKIHSGL

614 - 620 KAFRLNS

642 - 648 KAFRQYS

>ZN545\_HUMAN|Q8N141 : USER001

179 - 185 FRVRQQL

263 - 269 FRVRGQL

289 - 295 KAFRQYA

325 - 331 LRVHHKL

347 - 353 FRVRQQL

429 - 435 KAFRLLS

459 - 465 FRLRQKL

485 - 491 KAFRLNS

513 - 519 KAFRQHS

525 - 531 LKIHNVK

>ZN546\_HUMAN|Q86UE3 : USER001

224 - 230 KAFRQQS

280 - 286 KAFRLHY

336 - 342 KAFRLHY

>ZN549\_HUMAN|Q6P9A3 : USER001

398 - 404 FIYKQSL

594 - 600 FIYKNKL

>ZN550\_HUMAN|Q7Z398 : USER001

71 - 77 WIVKRGL

266 - 272 KAFKRRS

406 - 412 KAFKRRS

>ZN552\_HUMAN|Q9H707 : USER001

307 - 313 HKYHLIA  
387 - 393 KKFRQIS  
>ZN558\_HUMAN|Q96NG5 : USER001  
395 - 401 KRIHNRW  
>ZN560\_HUMAN|Q96MR9 : USER001  
342 - 348 HIIKNPY  
589 - 595 KHLRRHS  
>ZN565\_HUMAN|Q8N9K5 : USER001  
238 - 244 LILHQRL  
314 - 320 KAFRQHS  
370 - 376 KAFRQHA  
>ZN566\_HUMAN|Q969W8 : USER001  
346 - 352 KAFRSGS  
>ZN567\_HUMAN|Q8N184 : USER001  
346 - 352 FRLKSHL  
>ZN571\_HUMAN|Q7Z3V5 : USER001  
380 - 386 YHLRVHS  
>ZN573\_HUMAN|Q86YE8 : USER001  
129 - 135 LILHHRF  
289 - 295 KAFRRGH  
>ZN574\_HUMAN|Q6ZN55 : USER001  
508 - 514 SHVRNHL  
850 - 856 AAVRQQL  
>ZN577\_HUMAN|Q9BSK1 : USER001  
326 - 332 KAFRSKS  
>ZN579\_HUMAN|Q8NAF0 : USER001  
79 - 85 KAFRRPA  
305 - 311 LAFRLAS  
>ZN580\_HUMAN|Q9UK33 : USER001  
127 - 133 KAFKRSS  
>ZN581\_HUMAN|Q9P0T4 : USER001  
122 - 128 KAFKRAS  
>ZN582\_HUMAN|Q96NG8 : USER001  
296 - 302 SHLKVHY  
374 - 380 KAFRVSS  
>ZN584\_HUMAN|Q8IVC4 : USER001  
389 - 395 KAFKHSS  
>ZN586\_HUMAN|Q9NXT0 : USER001  
5 - 11 AALRAPA  
>ZN587\_HUMAN|Q96SQ5 : USER001  
417 - 423 FRYRSHL  
505 - 511 SALHVHK  
>ZN592\_HUMAN|Q92610 : USER001

501 - 507 KAVHLAN  
578 - 584 SRIHVPA  
1030 - 1036 KHIRNNH  
>ZN593\_HUMAN|O00488 : USER001  
69 - 75 KRLKQLS  
>ZN594\_HUMAN|Q96JF6 : USER001  
218 - 224 KAFKGSS  
302 - 308 KAFRQHS  
495 - 501 KAFRRRS  
>ZN599\_HUMAN|Q96NL3 : USER001  
262 - 268 KAFKRRF  
>ZN600\_HUMAN|Q6ZNG1 : USER001  
507 - 513 FHLRSYL  
>ZN606\_HUMAN|Q8WXB4 : USER001  
300 - 306 HIIHFGD  
723 - 729 LIVHLRN  
>ZN607\_HUMAN|Q96SK3 : USER001  
357 - 363 FRLRSIL  
>ZN608\_HUMAN|Q9ULD9 : USER001  
104 - 110 SKVKRSK  
562 - 568 KKYKHIN  
570 - 576 LRYHQAHA  
>ZN609\_HUMAN|O15014 : USER001  
504 - 510 KKYKHIN  
512 - 518 LKYHQAHA  
1097 - 1103 LKVKLSA  
1307 - 1313 SHYKSKS  
>ZN611\_HUMAN|Q8N823 : USER001  
637 - 643 LIYHRRL  
>ZN613\_HUMAN|Q6PF04 : USER001  
134 - 140 KILKSNL  
>ZN614\_HUMAN|Q8N883 : USER001  
386 - 392 LIVHQRS  
>ZN615\_HUMAN|Q8N8J6 : USER001  
437 - 443 FALKSPL  
>ZN616\_HUMAN|Q08AN1 : USER001  
192 - 198 KAFKASS  
220 - 226 KAFHRAS  
360 - 366 KAFRHRS  
>ZN618\_HUMAN|Q5T7W0 : USER001  
521 - 527 LALKHLP  
>ZN619\_HUMAN|Q8N2I2 : USER001  
363 - 369 KAFHRSS

>ZN620\_HUMAN|Q6ZNG0 : USER001  
407 - 413 FILHQKL

>ZN621\_HUMAN|Q6ZSS3 : USER001  
186 - 192 KAFKSSY  
242 - 248 KAFRRSA

>ZN623\_HUMAN|O75123 : USER001  
298 - 304 KAFRHRS

>ZN624\_HUMAN|Q9P2J8 : USER001  
159 - 165 FHYSLL  
297 - 303 KAFRNKS  
353 - 359 KAYRSNS  
467 - 473 FRIKSHL  
633 - 639 KAFRRGS  
717 - 723 KAFRSSS

>ZN625\_HUMAN|Q96I27 : USER001  
244 - 250 KAFRSAS

>ZN626\_HUMAN|Q68DY1 : USER001  
180 - 186 KAFKQFS  
236 - 242 KAFKHSS  
376 - 382 KAFKRSS  
460 - 466 KAFKRSS  
488 - 494 KAFKHFS  
516 - 522 KAFKHSS

>ZN628\_HUMAN|Q5EBL2 : USER001  
60 - 66 KAFKGSS  
88 - 94 KAFKRSS  
144 - 150 KAFKNSS  
458 - 464 LRYHLRD  
478 - 484 KAFKRSS  
516 - 522 YHLRLHS  
964 - 970 LIIRSAP

>ZN638\_HUMAN|Q9H2G1 : USER001  
531 - 537 SRYRSRS  
543 - 549 YRIRNPF

>ZN642\_HUMAN|Q49AA0 : USER001  
334 - 340 KAFRHRS

>ZN644\_HUMAN|Q9H582 : USER001  
437 - 443 SHFRHLN  
1091 - 1097 KILKALN

>ZN645\_HUMAN|Q8N7E2 : USER001  
132 - 138 AHIKRRH

>ZN646\_HUMAN|O15015 : USER001  
285 - 291 SRLHAQY

1092 - 1098 AAYRNHL

1265 - 1271 KAFRLRK

>ZN652\_HUMAN|Q9Y2D9 : USER001

319 - 325 KIVHGYA

>ZN655\_HUMAN|Q8N720 : USER001

219 - 225 KIFHQSS

>ZN658\_HUMAN|Q5TYW1 : USER001

615 - 621 SALRAHH

867 - 873 SALRAHH

895 - 901 SHLRAHL

1035 - 1041 AALRVHH

>ZN667\_HUMAN|Q5HYK9 : USER001

179 - 185 KAFRQIS

272 - 278 KKIHNKG

>ZN668\_HUMAN|Q96K58 : USER001

127 - 133 LRVHLAS

>ZN671\_HUMAN|Q8TAW3 : USER001

180 - 186 AKYHGGK

444 - 450 WRIHSSD

>ZN674\_HUMAN|Q2M3X9 : USER001

315 - 321 KAFKSSY

>ZN675\_HUMAN|Q8TD23 : USER001

403 - 409 KAFKHSS

487 - 493 KAFKHSS

>ZN676\_HUMAN|Q8N7Q3 : USER001

384 - 390 KAFKSSS

>ZN678\_HUMAN|Q5SXM1 : USER001

505 - 511 SKYKRIY

>ZN681\_HUMAN|Q96N22 : USER001

304 - 310 KAFRQSS

>ZN683\_HUMAN|Q8IZ20 : USER001

402 - 408 LRLHSGA

426 - 432 LKLHHRL

>ZN687\_HUMAN|Q8N1G0 : USER001

1112 - 1118 LRYRSSS

>ZN688\_HUMAN|Q8WV14 : USER001

256 - 262 LAIHRRA

284 - 290 LAIHQRK

>ZN696\_HUMAN|Q9H7X3 : USER001

21 - 27 AAVKAAF

>ZN699\_HUMAN|Q32M78 : USER001

230 - 236 KAFHFLA

298 - 304 KRIHSGD

326 - 332 KRIHSGD

566 - 572 KAFRHSS

>ZN700\_HUMAN|Q9H0M5 : USER001

229 - 235 KAFHSFS

285 - 291 KAFHSSS

425 - 431 KAFRSAS

571 - 577 KAFRSAS

627 - 633 KAFRSAS

>ZN707\_HUMAN|Q96C28 : USER001

265 - 271 KAFKQKS

>ZN708\_HUMAN|P17019 : USER001

287 - 293 KAFKQSS

>ZN710\_HUMAN|Q8N1W2 : USER001

444 - 450 FHYRSQL

476 - 482 HHLKQHS

>ZN711\_HUMAN|Q9Y462 : USER001

506 - 512 LAVHSKN

>ZN713\_HUMAN|Q8N859 : USER001

308 - 314 KAFRQHS

>ZN718\_HUMAN|Q3SXZ3 : USER001

386 - 392 KRIHSGK

402 - 408 KAFKVFA

430 - 436 KAFKQSS

458 - 464 KAFKQYS

>ZN721\_HUMAN|Q8TF20 : USER001

73 - 79 ARVKVFS

300 - 306 KAFRQSA

524 - 530 KAFRQSA

832 - 838 KAFRQSA

>ZN746\_HUMAN|Q6NUN9 : USER001

94 - 100 WILRLPP

>ZN749\_HUMAN|O43361 : USER001

624 - 630 LIHQQS

>ZN750\_HUMAN|Q32MQ0 : USER001

168 - 174 HRLKGPD

>ZN761\_HUMAN|Q86XN6 : USER001

305 - 311 KAFHFKS

307 - 313 FHFKSIL

473 - 479 KAFRFKS

475 - 481 FRFKSNL

641 - 647 KAFRVKS

643 - 649 FRVKSNL

>ZN766\_HUMAN|Q5HY98 : USER001

180 - 186 AHIRKRP  
362 - 368 KAFRHKF  
>ZN767\_HUMAN|Q75MW2 : USER001  
94 - 100 WILRLPP  
>ZN770\_HUMAN|Q6IQ21 : USER001  
242 - 248 KAFRALL  
324 - 330 SRFKRSY  
488 - 494 SKLKRHY  
>ZN772\_HUMAN|Q68DY9 : USER001  
389 - 395 HKYRLIK  
469 - 475 KAFRQRA  
>ZN773\_HUMAN|Q6PK81 : USER001  
84 - 90 AILRGSW  
282 - 288 KAFRHNS  
>ZN774\_HUMAN|Q6NX45 : USER001  
31 - 37 WALKGIS  
>ZN775\_HUMAN|Q96BV0 : USER001  
206 - 212 LRIHQRA  
>ZN776\_HUMAN|Q68DI1 : USER001  
413 - 419 FRYKSHL  
>ZN777\_HUMAN|Q9ULD5 : USER001  
268 - 274 WILRLPP  
561 - 567 LIHQRN  
>ZN778\_HUMAN|Q96MU6 : USER001  
205 - 211 HAVRNPH  
610 - 616 KAFRASS  
>ZN782\_HUMAN|Q6ZMW2 : USER001  
513 - 519 KAFKLKS  
515 - 521 FKLKSGL  
>ZN783\_HUMAN|Q6ZMS7 : USER001  
126 - 132 WILRLPP  
>ZN784\_HUMAN|Q8NCA9 : USER001  
72 - 78 AAFRLVS  
>ZN786\_HUMAN|Q8N393 : USER001  
406 - 412 FRLRLL  
546 - 552 FRLKGIL  
602 - 608 FRLKGQL  
628 - 634 KRYRVKA  
685 - 691 FRLKAQL  
741 - 747 FIYKSKL  
>ZN787\_HUMAN|Q6DD87 : USER001  
330 - 336 AALRRHK  
>ZN790\_HUMAN|Q6PG37 : USER001

261 - 267 KA FRFHS  
263 - 269 FRFHSQL  
>ZNF791\_HUMAN|Q3KP31 : USER001  
169 - 175 FIYHQPF  
>ZNF792\_HUMAN|Q3KQV3 : USER001  
550 - 556 YKLKLVH  
>ZNF821\_HUMAN|O75541 : USER001  
258 - 264 WALRRQN  
350 - 356 KRLKRRL  
>ZNF10\_HUMAN|P21506 : USER001  
532 - 538 FIVHQIA  
>ZNF14\_HUMAN|P17017 : USER001  
594 - 600 KA FRFSS  
>ZNF16\_HUMAN|P17020 : USER001  
272 - 278 KA FRGHS  
328 - 334 KA FRRSS  
356 - 362 KA FRRSS  
>ZNF22\_HUMAN|P17026 : USER001  
44 - 50 SRLRRSL  
>ZNF23\_HUMAN|P17027 : USER001  
567 - 573 KA FHVNA  
623 - 629 KA FRFSF  
>ZNF24\_HUMAN|P17028 : USER001  
22 - 28 KILRVKL  
>ZNF25\_HUMAN|P17030 : USER001  
58 - 64 FKLKQGK  
413 - 419 FIIHQRK  
>ZNF26\_HUMAN|P17031 : USER001  
53 - 59 AHLRAHA  
>ZNF28\_HUMAN|P17035 : USER001  
622 - 628 LIIHRRL  
>ZNF30\_HUMAN|P17039 : USER001  
270 - 276 KA FRLSS  
384 - 390 FRVHVHL  
494 - 500 KA FRLNS  
528 - 534 SALKVHL  
530 - 536 LKVHLRK  
>ZNF32\_HUMAN|P17041 : USER001  
260 - 266 LAVHQRS  
>ZNF34\_HUMAN|Q8IZ26 : USER001  
193 - 199 KRVHR SK  
461 - 467 KA FHNS S  
517 - 523 KA FRHSS



>ZNF35\_HUMAN|P13682 : USER001  
369 - 375 LIVHQRS  
473 - 479 KAQRORS

>ZNF41\_HUMAN|Q9UMW0 : USER001  
33 - 39 ARIHSVK  
608 - 614 LKIHQKS  
815 - 821 KRYKASD

>ZNF43\_HUMAN|P17038 : USER001  
679 - 685 KAFKLSS

>ZNF45\_HUMAN|Q02386 : USER001  
591 - 597 KRFRQRS

>ZNF66\_HUMAN|Q6ZN08 : USER001  
27 - 33 LHLRRNS  
144 - 150 LILRRHK  
310 - 316 KAFKRSS

>ZNF69\_HUMAN|Q9UC07 : USER001  
423 - 429 KAQRSSS  
541 - 547 KAFRAAS

>ZNF70\_HUMAN|Q9UC06 : USER001  
203 - 209 KAQRQSS  
398 - 404 KAQRHRS

>ZNF74\_HUMAN|Q16587 : USER001  
254 - 260 KAQRQSS

>ZNF77\_HUMAN|Q15935 : USER001  
481 - 487 KHVRSHS

>ZNF79\_HUMAN|Q15937 : USER001  
312 - 318 KAQRHSA

>ZNF7\_HUMAN|P17097 : USER001  
285 - 291 KAFRLSS

>ZNF81\_HUMAN|P51508 : USER001  
205 - 211 LHIHNKS

>ZNF83\_HUMAN|P51522 : USER001  
12 - 18 KAFHQGL

>ZNF84\_HUMAN|P51523 : USER001  
99 - 105 KIIKRGH  
135 - 141 LILKHHL

>ZNF85\_HUMAN|Q03923 : USER001  
321 - 327 KAFKQSS  
405 - 411 KAFKHSS

>ZNF91\_HUMAN|Q05481 : USER001  
245 - 251 KAFKQLS  
497 - 503 KAQRQSS  
525 - 531 KAQRQSL

553 - 559 KAFKQFS

565 - 571 KIIHAGK

833 - 839 KAFKHSS

>ZNF92\_HUMAN|Q03936 : USER001

320 - 326 KAFRVFS

404 - 410 KAFKQSS

>ZNF98\_HUMAN|A6NK75 : USER001

344 - 350 KAFKQSS

>ZNFX1\_HUMAN|Q9P2E3 : USER001

989 - 995 AKYRQIL

>ZNHI1\_HUMAN|O43257 : USER001

76 - 82 FKLRFK

>ZNHI3\_HUMAN|Q15649 : USER001

51 - 57 KKIRSAL

>ZNR3\_HUMAN|Q9ULT6 : USER001

597 - 603 FIYRSRS

>ZNR4\_HUMAN|Q8WWF5 : USER001

183 - 189 AIVHNVH

>ZNT3\_HUMAN|Q99726 : USER001

28 - 34 LRLKSLF

>ZNT4\_HUMAN|O14863 : USER001

269 - 275 LAVRAAF

293 - 299 YIIRFKP

>ZO3\_HUMAN|O95049 : USER001

721 - 727 KALRQWL

>ZP1\_HUMAN|P60852 : USER001

60 - 66 LRFKVVD

>ZP2\_HUMAN|Q05996 : USER001

125 - 131 AALRHGA

>ZPBP1\_HUMAN|Q9BS86 : USER001

175 - 181 ARYHAAP

>ZRAB2\_HUMAN|O95218 : USER001

132 - 138 KKYRGKA

>ZRAB3\_HUMAN|Q5FWF4 : USER001

576 - 582 KRLKLAA

>ZRAN1\_HUMAN|Q9UGI0 : USER001

250 - 256 KKLKQIK

627 - 633 LHVHFLS

>ZSC10\_HUMAN|Q96SZ4 : USER001

356 - 362 HRFRQSS

440 - 446 LRIHARD

614 - 620 HRFRNSS

648 - 654 AHLRRHL

>ZSC12\_HUMAN|O43309 : USER001  
560 - 566 KAFRQRK

>ZSC20\_HUMAN|P17040 : USER001  
312 - 318 YRVKNLL  
472 - 478 YRFKNLL

>ZSC22\_HUMAN|P10073 : USER001  
48 - 54 ARLRFRH

>ZSWM2\_HUMAN|Q8NEG5 : USER001  
321 - 327 HIVRSLP

>ZSWM3\_HUMAN|Q96MP5 : USER001  
288 - 294 FHYRAIL  
316 - 322 KKLHRSS

>ZSWM4\_HUMAN|Q9H7M6 : USER001  
174 - 180 YRIRHAH  
560 - 566 LAYRLAL  
868 - 874 LIIRSIH

>ZSWM5\_HUMAN|Q9P217 : USER001  
472 - 478 SAIHSPD  
831 - 837 KHIHSSS

>ZW10\_HUMAN|O43264 : USER001  
157 - 163 KILKSLS  
538 - 544 AAIHHNN  
559 - 565 FRLRLAP  
624 - 630 KAVRQVL

>ZXDA\_HUMAN|P98168 : USER001  
315 - 321 YKLKRHL  
437 - 443 LKIHLS

>ZXDB\_HUMAN|P98169 : USER001  
319 - 325 YKLKRHL  
441 - 447 LKIHLS

>ZXDC\_HUMAN|Q2QGD7 : USER001  
223 - 229 YKLKRHL  
345 - 351 LKIHLS

>ZY11A\_HUMAN|Q6WRX3 : USER001  
270 - 276 SRYRNRS  
299 - 305 AILKLVA  
351 - 357 KALKNFP

>ZY11B\_HUMAN|Q9C0D3 : USER001  
492 - 498 FIVRQLL

>ZZEF1\_HUMAN|O43149 : USER001  
755 - 761 LKYKSFL  
776 - 782 SKLKQNP  
1657 - 1663 KAVKGFSS

2143 - 2149 LIIRLLP  
2354 - 2360 LALKGLY  
2479 - 2485 HILRAIY  
2845 - 2851 KAIHLLL