

S2 Table. Various patterns of length 5 aa (from Table 13) and their corresponding amino acid sequences.

| Seq. Nos. | Pattern of Length=5 | | | | | | | |
|---------------|---------------------|------------------|------------|------------------|------------------|------------|------------------|------------------|
| | 37812 | 52471 | 74281 | 78124 | 35247 | 48532 | 43827 | 64837 |
| 1 | 497-YTNEK | 561-PKATD | 253-TVKND | 498-TNEKL | 560-FPKAT | 145-INPYK | 505-LFNHT | 494-CINYT |
| 2 | 478-YTNEK | 542-PKATD | 233-TVKND | 479-TNEKL | 541-FPKAT | 125-VNPYK | 486-LFNHT | 475-CINYT |
| 3 | 471-YTNEK | 535-PKATD | 226-TVKND | 472-TNEKL | 534-FPKAT | 121-INPYK | 479-LFNHT | 468-CINYT |
| 4 | 478-YTNEK | 542-PKATD | 233-TVKND | 479-TNEKL | 541-FPKAT | 125-INPYK | 486-LFNHT | 475-CINYT |
| 5 | 492-FTNEK | 553-PKATD | 248-TLRND | 493-TNEKL | 552-FPKAT | 143-INPYK | 620-VFQKS | 489-CINFT |
| 6 | 483-FTNEK | 544-PKASD | 238-TLRND | 484-TNEKL | 543-FPKAS | 124-INPYK | 612-IFQKS | 480-CINFT |
| 7 | 483-FTNEK | 544-PKATD | 238-TVRND | 484-TNEKL | 543-FPKAT | 126-VNPYK | 611-LYQKS | 480-CINFT |
| 8 | 483-FTNEK | 544-PKATD | 238-TVRND | 484-TNEKL | 543-FPKAT | 126-VNPYK | 611-LYQKS | 480-CINFT |
| 9 | 483-FTNEK | 544-PKATD | 238-TVRND | 484-TNEKL | 543-FPKAT | 128-VNPYK | 611-LYQKS | 480-CINFT |
| 10 | 483-FTNEK | 544-PKATD | 238-TVRND | 484-TNEKL | 543-FPKAT | 126-VNPYK | 611-LYQKS | 480-CINFT |
| 11 | 481-FTNEK | 542-PKATD | 236-TVRND | 482-TNEKL | 541-FPKAT | 126-VNPYK | 609-LYQKS | 478-CINFT |
| 12 | 482-FTNEK | 543-PKATD | 237-TVRND | 483-TNEKL | 542-FPKAT | 126-VNPYK | 610-LYQKS | 479-CINFT |
| 13 | 480-FTNEK | 541-PKATD | 235-TVRND | 481-TNEKL | 540-FPKAT | 125-VNPYK | 608-LYQKS | 477-CINFT |
| 14 | 481-FTNEK | 542-PKATD | 236-TVRND | 482-TNEKL | 541-FPKAT | 125-VNPYK | 609-LYQKS | 478-CINFT |
| Domain | After ATP | After ATP | ATP | After ATP | After ATP | ATP | After ATP | After ATP |