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|-----------|-------|-------|---------|----|-------------|--------------------|---------------------------|------------|-------------------|------------------------------------------|------------------------------|------------------------------|-----|-------------------|
| NTDB id   | 601   | KW2   | RS02615 | WP | 021036805.1 | ..SNQPTP           | TQTGCR.....               | GPRGPQN    | PRAKQPK           | GMLEEFGIN                                | LTESARRGEI                   | DPVIGRDEEIKRVIEILNRRTKNNPVLI | 151 |                   |
| NTDB id   | 378   | SMU   | RS02690 | WP | 002263569.1 | ..LPNTPP           | TQAGCGNGN.GGNNR.RPGGPQQAS | CKPNGL     | LLEFGINLT         | DIARKGEI                                 | DPVIGRDEEITRVIEILNRRTKNNPVLI | 158                          |     |                   |
| NTDB id   | 61774 | SAIN  | RS06800 | WP | 021001944.1 | ..EPQTPP           | TQSGGGYG.NGGYGSNQGGSARQQA | PQKPKGL    | LLEFGINVTEFARRGEI | DPVIGRDEEIVRVIEILNRRTKNNPVLI             | 156                          |                              |     |                   |
| NTDB id   | 281   | KZH43 | RS03550 | WP | 000882517.1 | ..TPPIPP           | TQSGGGYGGNGGYGSQNRGSAQTTP | PSQEKG     | LLEFGINVTETIARRGD | DPVIGRDEEIIRVIEILNRRTKNNPVLI             | 157                          |                              |     |                   |
| NTDB id   | 245   | SPD   | RS03860 | WP | 000882517.1 | ..TPPIPP           | TQSGGGYGGNGGYGSQNRGSAQTTP | PSQEKG     | LLEFGINVTETIARRGD | DPVIGRDEEIIRVIEILNRRTKNNPVLI             | 157                          |                              |     |                   |
| NTDB id   | 243   | SPR   | RS03635 | WP | 000882517.1 | ..TPPIPP           | TQSGGGYGGNGGYGSQNRGSAQTTP | PSQEKG     | LLEFGINVTETIARRGD | DPVIGRDEEIIRVIEILNRRTKNNPVLI             | 157                          |                              |     |                   |
| NTDB id   | 241   | SP    | RS04015 | WP | 000882523.1 | ..TPPIPP           | TQSGGGYGGNGGYGSQNRGSAQTTP | PSQEKG     | LLEFGINVTETIARRGD | DPVIGRDEEIIRVIEILNRRTKNNPVLI             | 157                          |                              |     |                   |
| NTDB id   | 85    | BSU   | 00860   | NP | 387967.1    | .....              | GSSAAGTNS                 | NANTPTLD   | SLARDLTAIAKEDSL   | DPVIGRSKEIQRVIEVLSRRTTKNNPVLI            | 207                          |                              |     |                   |
| NTDB id   | 610   | V4T04 | RS10165 | WP | 012897346.1 | AVTPMSKR           | KMAKC.....                | VAENSTTPT  | LDVSDDLTEEARLGKL  | DPMIGRAEIDRLIHLSRRTTKNNPVLV              | 220                          |                              |     |                   |
| NTDB id   | 290   | KZH43 | RS10025 | WP | 001109677.1 | .LRQRHRTV.ADK..... | QNSMANMMGM                | PCTPSG     | GLEDYTHDLTEQARS   | GKLEPVIGRDKEISRMIIQLSRKTKNPNVLV          | 233                          |                              |     |                   |
| NTDB id   | 289   | SPD   | RS10700 | WP | 001109677.1 | .LRQRHRTV.ADK..... | QNSMANMMGM                | PCTPSG     | GLEDYTHDLTEQARS   | GKLEPVIGRDKEISRMIIQLSRKTKNPNVLV          | 233                          |                              |     |                   |
| NTDB id   | 287   | SP    | RS11210 | WP | 001109712.1 | .LRQRHRTV.ADK..... | QNSMANMMGM                | PCTPSG     | GLEDYTHDLTEQARS   | GKLEPVIGRDKEISRMIIQLSRKTKNPNVLV          | 233                          |                              |     |                   |
| NTDB id   | 377   | SMU   | RS09275 | WP | 002262344.1 | .IFEMRK            | PKKVKN.....               | SSSFSDLMK  | PPSVTGELADFT      | RDLTELARQGRLEPVIGREQEISRMVQILSRKTKNPNVLV | 237                          |                              |     |                   |
| NTDB id   | 297   | STER  | RS00545 | WP | 011680614.1 | .IHDLRK            | PKKSKA.....               | SANFANMMQP | PCSSGTGELADYT     | KDALTALAESGNLDPVIGRDEEISRMIVLSRKTKNPNVLV | 240                          |                              |     |                   |
| NTDB id   | 329   | STU   | RS10020 | WP | 011225298.1 | .IHDLRK            | PKKSKA.....               | SANFANMMQP | PCSSGTGELADYT     | KDALTALAESGNLDPVIGRDEEISRMIVLSRKTKNPNVLV | 240                          |                              |     |                   |
| consensus |       |       |         |    |             | *                  | *                         | * *        | * ! * * *         | * ! * * ! * *                            | * * * ! * ! ! * ! !          | ! * * * !                    | * ! | ! * ! ! ! ! ! ! * |

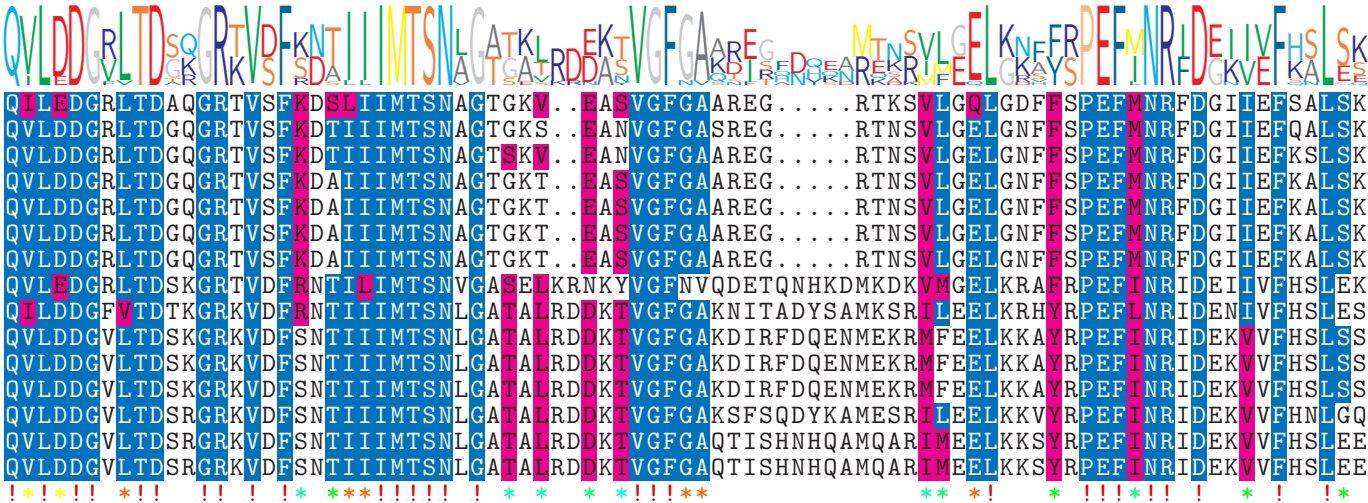
|      |    |       |       |         |    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |     |
|------|----|-------|-------|---------|----|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|-----|
| NTDB | id | 601   | KW2   | RS02615 | WP | 021036805.1 | G | E | P | G | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | Q | K | L | Q | N | K | E | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | D | E | I | R | K | R | N | D | V | I | M | F | I | D | E | I | H | E | I | V | G | A | G | S | A   | G   | D | 236 |
| NTDB | id | 378   | SMU   | RS02690 | WP | 002263569.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | Q | K | L | H | G | K | N | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | Q | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 243 |     |   |     |
| NTDB | id | 61774 | SAIN  | RS06800 | WP | 021001944.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | N | E | I | R | S | R | Q | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D   | 241 |   |     |
| NTDB | id | 281   | KZH43 | RS03550 | WP | 000882517.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | K | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 242 |     |   |     |
| NTDB | id | 245   | SPD   | RS03860 | WP | 000882517.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | K | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 242 |     |   |     |
| NTDB | id | 243   | SPR   | RS03635 | WP | 000882517.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | K | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 242 |     |   |     |
| NTDB | id | 241   | SP    | RS04015 | WP | 000882523.1 | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | K | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 242 |     |   |     |
| NTDB | id | 85    | BSU   | 00860   | NP | 387967.1    | G | E | P | G | V | G | K | T | A | V | E | G | L | A | Q | K | I | V | D | G | D | V | P | H | K | L | Q | G | K | Q | V | I | R | L | D | V | V | S | L | V | Q | G | T | G | I | R | G | Q | F | E | E | R | M | Q | K | L | M | E | E | I | R | K | R | D | V | I | L | F | I | D | E | I | H | E | I | V | G | A | G | S | A | G | D | 242 |     |   |     |
| NTDB | id | 610   | V4T04 | RS10165 | WP | 012897346.1 | G | E | P | G | V | G | K |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |   |     |





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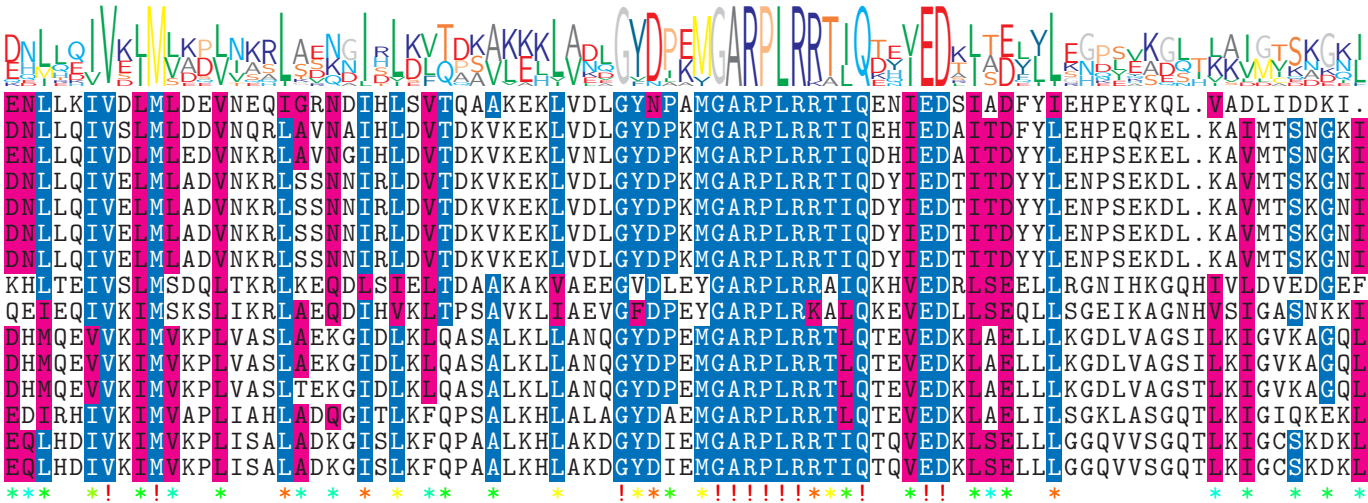
|           |       |       |         |    |             |
|-----------|-------|-------|---------|----|-------------|
| NTDB id   | 601   | KW2   | RS02615 | WP | 021036805.1 |
| NTDB id   | 378   | SMU   | RS02690 | WP | 002263569.1 |
| NTDB id   | 61774 | SAIN  | RS06800 | WP | 021001944.1 |
| NTDB id   | 281   | KZH43 | RS03550 | WP | 000882517.1 |
| NTDB id   | 245   | SPD   | RS03860 | WP | 000882517.1 |
| NTDB id   | 243   | SPR   | RS03635 | WP | 000882517.1 |
| NTDB id   | 241   | SP    | RS04015 | WP | 000882523.1 |
| NTDB id   | 85    | BSU   | 00860   | NP | 387967.1    |
| NTDB id   | 610   | V4T04 | RS10165 | WP | 012897346.1 |
| NTDB id   | 290   | KZH43 | RS10025 | WP | 001109677.1 |
| NTDB id   | 289   | SPD   | RS10700 | WP | 001109677.1 |
| NTDB id   | 287   | SP    | RS11210 | WP | 001109712.1 |
| NTDB id   | 377   | SMU   | RS09275 | WP | 002262344.1 |
| NTDB id   | 297   | STER  | RS00545 | WP | 011680614.1 |
| NTDB id   | 329   | STU   | RS10020 | WP | 011225298.1 |
| consensus |       |       |         |    |             |



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| NTDB id   | 601   | KW2   | RS02615 | WP | 021036805.1 |
| NTDB id   | 378   | SMU   | RS02690 | WP | 002263569.1 |
| NTDB id   | 61774 | SAIN  | RS06800 | WP | 021001944.1 |
| NTDB id   | 281   | KZH43 | RS03550 | WP | 000882517.1 |
| NTDB id   | 245   | SPD   | RS03860 | WP | 000882517.1 |
| NTDB id   | 243   | SPR   | RS03635 | WP | 000882517.1 |
| NTDB id   | 241   | SP    | RS04015 | WP | 000882523.1 |
| NTDB id   | 85    | BSU   | 00860   | NP | 387967.1    |
| NTDB id   | 610   | V4T04 | RS10165 | WP | 012897346.1 |
| NTDB id   | 290   | KZH43 | RS10025 | WP | 001109677.1 |
| NTDB id   | 289   | SPD   | RS10700 | WP | 001109677.1 |
| NTDB id   | 287   | SP    | RS11210 | WP | 001109712.1 |
| NTDB id   | 377   | SMU   | RS09275 | WP | 002262344.1 |
| NTDB id   | 297   | STER  | RS00545 | WP | 011680614.1 |
| NTDB id   | 329   | STU   | RS10020 | WP | 011225298.1 |
| consensus |       |       |         |    |             |



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|-------------------------------------------|---|--------------------------|-----|
| NTDB id 601 KW2 RS02615 WP 021036805.1    | V | SNQTQ.ETAETTDDEVPAE....  | 748 |
| NTDB id 378 SMU RS02690 WP 002263569.1    | V | IKASNKVETVTKATSD.....    | 753 |
| NTDB id 61774 SAIN RS06800 WP 021001944.1 | V | IKSAKKAENEADKEIQKPADNNAN | 759 |
| NTDB id 281 KZH43 RS03550 WP 000882517.1  | Q | IKSAKKAIEVKSSEKEK.....   | 752 |
| NTDB id 245 SPD RS03860 WP 000882517.1    | Q | IKSAKKAIEVKSSEKEK.....   | 752 |
| NTDB id 243 SPR RS03635 WP 000882517.1    | Q | IKSAKKAIEVKSSEKEK.....   | 752 |
| NTDB id 241 SP RS04015 WP 000882523.1     | Q | IKSAKKAIEVKSSEKEK.....   | 752 |
| NTDB id 85 BSU 00860 NP 387967.1          | V | VKTTAKTN.....            | 810 |
| NTDB id 610 V4T04 RS10165 WP 012897346.1  | K | IAQIV.....               | 816 |
| NTDB id 290 KZH43 RS10025 WP 001109677.1  | K | FDIA.....                | 810 |
| NTDB id 289 SPD RS10700 WP 001109677.1    | K | FDIA.....                | 810 |
| NTDB id 287 SP RS11210 WP 001109712.1     | K | FDIA.....                | 810 |
| NTDB id 377 SMU RS09275 WP 002262344.1    | K | FDIV.....                | 813 |
| NTDB id 297 STER RS00545 WP 011680614.1   | T | FTVV.....                | 816 |
| NTDB id 329 STU RS10020 WP 011225298.1    | T | FTVV.....                | 816 |
| consensus                                 | * |                          |     |

- non conserved
- similar
- ≥ 50% conserved