

|                |                                |                                                                                         |    |
|----------------|--------------------------------|-----------------------------------------------------------------------------------------|----|
| NTDB id 1029   | TT RS02230 WP 011228203.1      | .....MPVYQYKARDRQGR.LVEATTEAEDLRTAARLRLDRGLFVAETKEPGKLQAQEVRI PALERGPGLK                | 65 |
| NTDB id 1402   | DSB67 RS12670 WP 010643257.1   | .MKT.....IAPQLKNYRWKGINS SCK.KTSGNVLAMTEIEVRERLDAQHIIKIKKKLKGSI SFITKI.....SHRVKGGK     | 67 |
| NTDB id 1169   | A1552VC RS11075 WP 000648511.1 | MKAT.....QTLP LKNYRWKGINSNGK.KVSGQM LAISEIEVRDKLKDQHIQIKKKLKGGSVS LLARL.....THR VKSK    | 68 |
| NTDB id 1112   | NGFG RS09215 WP 003689811.1    | .MAKNGGFSLF AKKEKR FIFEGRHASADKLVN GGEVS AFTEE EARKKLAKRGIRPLQIT RVK.....TS...SKRK ITQE | 70 |
| NTDB id 1113   | AAH85695.1 219..1451( )        | .MAKNGGFSLF AKKEKR FIFEGRHASADKLVN GGEVS AFTEE EARKKLAKRGIRPLQIT RVK.....TS...SKRK ITQE | 70 |
| NTDB id 1252   | GCO85 RS07730 WP 011213805.1   | .MDK.....NSPPLTLTFHYQGINKAGQ.KMEGD IQARSLATAKADLRKQGIVTNKVVKRRKPLFDRK.... NKKITQA       | 67 |
| NTDB id 1016   | ACIAD RS01680 WP 004920476.1   | MAAK.....KTQVM PVFAYEGVD RKG I.KLKGELPARNMALAKVT LRKQGITIRTIREKRKN IFEGL.... LK KKV KPL | 69 |
| NTDB id 1059   | ABD1 RS01610 WP 000279215.1    | MAVK.....KAQMMPTFAYEGVD RKG V.KIKGELPAKNMALAKVT LRKQGVTVRNIREKRKN ILEGL.... FK KKV TTL  | 69 |
| NTDB id 413782 | GTQ55 RS12880 WP 161859105.1   | .MA.....KAAA AVAYTYKGVDAKGN.KVN GEITGTNPALIKAQLRRKGITIANRVQKKPKPLFGG..... GK KIK PG     | 65 |
| NTDB id 1198   | PSJM300 03950 AFN76868.1       | .MAQ.....KAIKNSVFTWEGLDRQGA.KIKGELSGVSPALVKAQLRKQGINPQKVRKKSIS LFSA..... GK KIK PM      | 66 |
| consensus      |                                | *** * * * * ! * * * * *                                                                 |    |

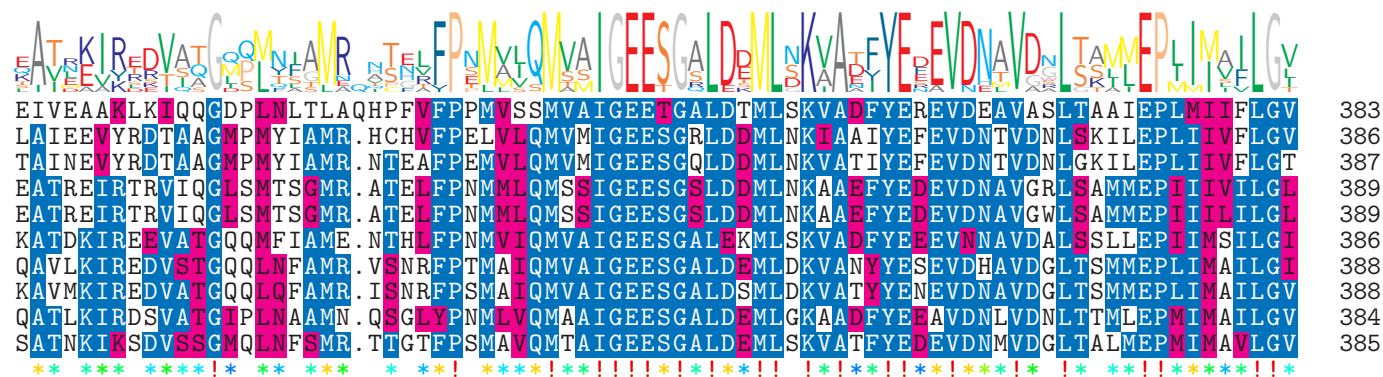
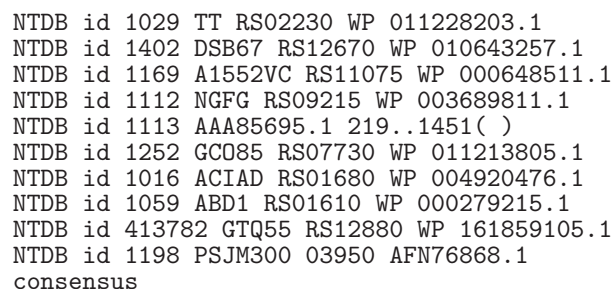
|      |    |        |            |              |    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |
|------|----|--------|------------|--------------|----|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| NTDB | id | 1029   | TT         | RS02230      | WP | 011228203.1 | D | L | A | I | F | S | R | Q | L | A | T | M | L | G | A | G | L | T | L | L | Q | A | L | A | I | L | E | R | Q | T | E | N | R | K | F | R | E | I | L | K | Q | V | R | T | D | V | E | G | G | M | A | F | S | E | A | L | S | K | H | K | . | I | F | S | R | L | Y | V | N | L | V | R | A | G | E | T | S | G | G   | L   | 144 |
| NTDB | id | 1402   | DSB67      | RS12670      | WP | 010643257.1 | D | I | T | I | F | T | R | Q | L | A | T | M | L | M | T | G | V | P | I | V | Q | A | L | K | L | V | S | E | N | H | K | K | A | E | M | K | S | I | L | M | S | V | T | R | A | V | E | A | G | T | P | M | S | K | A | M | R | T | A | S | T | H | F | D | P | L | Y | T | D | L | I | A | T | G | E | Q | S | G | N   | L   | 147 |
| NTDB | id | 1169   | A1552VC    | RS11075      | WP | 000648511.1 | D | I | T | I | L | T | R | Q | L | A | T | M | L | T | T | G | V | P | I | V | Q | A | L | K | L | V | G | D | N | H | R | K | A | E | M | K | S | I | L | A | Q | I | T | K | S | V | E | A | G | T | P | L | S | K | A | M | R | T | A | S | A | H | F | D | T | L | Y | V | D | L | V | E | T | G | E | M | S | G | N   | L   | 148 |
| NTDB | id | 1112   | NGFG       | RS09215      | WP | 003689811.1 | D | I | T | V | F | T | R | Q | L | S | T | M | I | K | A | G | L | P | L | M | Q | A | F | E | I | V | A | R | G | H | G | N | P | S | M | T | E | M | L | M | E | I | R | G | Q | V | E | Q | G | S | S | L | R | A | F | S | N | H | P | K | Y | F | D | R | F | Y | C | N | L | V | A | A | G | E | T | G | G | V | L   | 150 |     |
| NTDB | id | 1113   | AAA85695.1 | 219..1451( ) |    |             | D | I | T | V | F | T | R | Q | L | S | T | M | I | N | A | G | L | P | L | M | Q | A | F | E | I | V | A | R | G | H | G | N | P | S | M | T | E | M | L | M | E | I | R | G | Q | V | E | Q | G | S | S | L | R | A | F | S | N | H | P | K | Y | F | D | R | F | Y | C | N | L | V | A | A | G | E | T | G | G | V | L   | 150 |     |
| NTDB | id | 1252   | G0C85      | RS07730      | WP | 011213805.1 | D | I | T | V | F | S | R | Q | L | A | T | M | I | E | S | G | L | P | L | V | Q | A | F | D | I | V | A | K | Q | S | N | K | R | L | K | D | L | I | E | T | I | K | H | D | I | E | T | G | L | T | A | E | S | L | I | K | H | P | L | Y | F | N | E | L | F | C | N | L | V | D | A | G | E | K | S | G | S | L | 147 |     |     |
| NTDB | id | 1016   | ACIAD      | RS01680      | WP | 004920476.1 | D | I | A | I | F | T | R | Q | L | A | T | M | M | K | A | G | V | P | L | V | Q | A | F | E | I | V | A | E | G | L | E | N | P | A | M | R | D | V | V | L | G | L | K | N | E | V | E | G | G | N | T | F | A | G | A | L | R | K | Y | P | Q | Y | F | D | N | L | F | C | S | L | I | E | S | G | E | Q | S | G | S   | L   | 149 |
| NTDB | id | 1059   | ABD1       | RS01610      | WP | 000279215.1 | D | I | T | I | F | T | R | Q | L | A | T | M | M | K | A | G | V | P | L | V | Q | F | E | I | V | A | E | G | L | E | N | P | A | M | R | E | V | V | L | G | I | K | G | E | V | E | G | G | S | T | F | A | S | A | L | R | K | Y | P | Q | H | F | D | N | L | F | C | S | L | V | E | S | G | E | Q | S | G | A | L   | 149 |     |
| NTDB | id | 413782 | GTQ55      | RS12880      | WP | 161859105.1 | D | I | A | L | F | T | R | Q | L | A | T | M | M | R | A | G | V | P | L | V | Q | S | F | E | I | V | A | D | G | S | N | D | Q | S | V | K | E | L |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |     |     |

[illegible]

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NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 413782 GTQ55 RS12880 WP 161859105.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

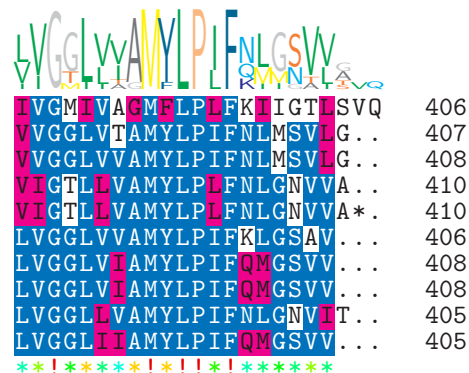
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NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 413782 GTQ55 RS12880 WP 161859105.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

```



- X non conserved
- X similar
- X > 50% conserved