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|                                              |          |                             |            |                  |          |                    |                  |            |            |            |            |     |     |
|----------------------------------------------|----------|-----------------------------|------------|------------------|----------|--------------------|------------------|------------|------------|------------|------------|-----|-----|
| NTDB id 1138444 DQM47 RS00670 WP 002986552.1 | .....    | MINQWNNLRHKKIKGFTLLEMLLVLLV | ISVLM      | LLFVPNLSKQKDRVTE | TGNA     | AAVVKLVENQAELYEL   | ESQG             | SK         | 72         |            |            |     |     |
| NTDB id 588 KW2 RS10845 WP 051303741.1       | MSKALSLV | KIHGRKL                     | CQKKQK     | KAFTLLEMLLVLA    | IISTLL   | LLFVPNLIKKKAQVQKT  | GEAAVVKV         | VESQAQLYEL | DHDNDK     | 80         |            |     |     |
| NTDB id 460 GPW51 RS00790 WP 011921720.1     | .....    | .....                       | MKKLVEMKVK | GFTLVEMLVVL      | GIISL    | LLFVPNLSQKKDAIQKKG | DAAVVKV          | VESQMELYEL | EHD.EE     | 68         |            |     |     |
| NTDB id 502 SM12261 RS00955 WP 000738641.1   | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | DKN.ED     | 72  |     |
| NTDB id 272 KZH43 RS09255 WP 000738626.1     | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | EKN.ED     | 72  |     |
| NTDB id 231 SPD RS09885 WP 000738626.1       | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | EKN.ED     | 72  |     |
| NTDB id 197 SPR RS09420 WP 000738626.1       | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | EKN.ED     | 72  |     |
| NTDB id 162 SP RS10370 WP 000738627.1        | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | EKN.ED     | 72  |     |
| NTDB id 530 SMSK321 RS09230 WP 000738643.1   | .....    | MKKMMTFL                    | LKKA       | KVKAFTLV         | EMLVVLLI | ISVLF              | LLFVPNLTKQKEAVN  | DKGKA      | AAVVKV     | VESQAELYSL | DKN.ED     | 72  |     |
| NTDB id 431 SGO RS09410 WP 012130940.1       | .....    | MNKKLKKL                    | R          | VKAFTLV          | EMLVVLLI | ISVLM              | LLFVPNLTKQKEAVS  | DTGNA      | AAVVKV     | VESQAELYEL | KNTG       | 69  |     |
| NTDB id 396 FSA28 RS09395 WP 002263437.1     | .....    | MKKTKRVS                    | VR         | AFTLLEML         | VVLLI    | IISTLL             | LLFVPNLTKQKDKVKD | TGGS       | AAVVKV     | VESQAELYEL | NKT.DS     | 68  |     |
| NTDB id 387 SMU RS09025 WP 002263437.1       | .....    | MKKTKRVS                    | VR         | AFTLLEML         | VVLLI    | IISTLL             | LLFVPNLTKQKDKVKD | TGGS       | AAVVKV     | VESQAELYEL | NKT.DS     | 68  |     |
| consensus                                    |          | ***                         | *          | ***              | *****    | !!!!*!!!!          | *!!!!*!!!!       | *!!!!*!!!! | *!!!!*!!!! | *!!!!*!!!! | *!!!!*!!!! | *** | *** |

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|                                              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|----------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| NTDB id 1138444 DQM47 RS00670 WP 002986552.1 | P     | S     | L     | S     | Q     | L     | K     | A     | D     | G     | S     | I     | T     | E     | K     | Q     | E     | K     | A     | Y     | Q     | D     | Y     | Y     | D     | K     | H     | K     | N     | E     | K     | A     | R     | I     | S     | N     | 108 |
| NTDB id 588 KW2 RS10845 WP 051303741.1       | P     | N     | L     | S     | E     | L     | L     | S     | A     | G     | M     | I     | T     | Q     | K     | Q     | V     | T     | A     | Y     | D     | D     | Y     | Y     | D     | Q     | N     | K     | N     | E     | G     | R     | N     | F     | D     | D     | 116 |
| NTDB id 460 GPW51 RS00790 WP 011921720.1     | A     | T     | V     | A     | D     | L     | Q     | A     | K     | G     | Y     | I     | T     | E     | K     | Q     | A     | K     | Q     | Y     | A     | T     | A     | K     | K     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 93    |     |
| NTDB id 502 SM12261 RS00955 WP 000738641.1   | A     | S     | L     | S     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | K     | E     | Y     | H     | A     | K     | D     | N     | T     | S     | A     | T     | V     | A     | D     | 107   |     |
| NTDB id 272 KZH43 RS09255 WP 000738626.1     | A     | S     | L     | R     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | K     | E     | Y     | H     | D     | K     | N     | G     | G     | A     | N     | R     | K     | V     | N     | D     | 108 |
| NTDB id 231 SPD RS09885 WP 000738626.1       | A     | S     | L     | R     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | K     | E     | Y     | H     | D     | K     | N     | G     | G     | A     | N     | R     | K     | V     | N     | D     | 108 |
| NTDB id 197 SPR RS09420 WP 000738626.1       | A     | S     | L     | R     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | K     | E     | Y     | H     | D     | K     | N     | G     | G     | A     | N     | R     | K     | V     | N     | D     | 108 |
| NTDB id 162 SP RS10370 WP 000738627.1        | A     | S     | L     | R     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | K     | E     | Y     | N     | D     | K     | N     | G     | G     | A     | N     | R     | K     | V     | N     | D     | 108 |
| NTDB id 530 SMSK321 RS09230 WP 000738643.1   | A     | S     | L     | S     | K     | L     | Q     | A     | D     | G     | R     | I     | T     | E     | E     | Q     | A     | K     | A     | Y     | N     | E     | Y     | Y     | A     | K     | N     | G     | G     | A     | N     | R     | K     | V     | N     | D     | 108 |
| NTDB id 431 SGO RS09410 WP 012130940.1       | A     | T     | L     | S     | K     | L     | V     | A     | A     | G     | N     | I     | S     | Q     | K     | Q     | A     | D     | S     | Y     | K     | A     | Y     | Y     | G     | K     | N     | M     | S     | E     | T     | Q     | A     | V     | A     | N     | 105 |
| NTDB id 396 FSA28 RS09395 WP 002263437.1     | A     | T     | L     | S     | K     | L     | V     | A     | S     | C     | D     | I     | T     | Q     | E     | Q     | A     | N     | S     | Y     | K     | D     | Y     | Y     | A     | K     | H     | P     | S     | K     | T     | R     | H     | V     | A     | N     | 104 |
| NTDB id 387 SMU RS09025 WP 002263437.1       | A     | T     | L     | S     | K     | L     | V     | A     | S     | C     | D     | I     | T     | Q     | E     | Q     | A     | N     | S     | Y     | K     | D     | Y     | Y     | A     | K     | H     | P     | S     | K     | T     | R     | H     | V     | A     | N     | 104 |
| consensus                                    | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |     |

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved