

logo

|                                             |                  |                        |                   |                    |                   |    |
|---------------------------------------------|------------------|------------------------|-------------------|--------------------|-------------------|----|
| NTDB id 598 KW2 RS08500 WP 021037660.1      | MEVARDARGELVNVLE | DKLEKQAYTCPACGGQLHLRQG | PSVRTHFAHKS       | LKDCDEFFENESPEHL   | ANKESLYHHLKKE     | 80 |
| NTDB id 306408 DK878 RS06695 WP 002938107.1 | MRTAIDENNK       | IINLLELDRKELTGK        | FYCPSCHS          | ELLTKNGQIKVLHFAHKS | SLKSCNLWLENES     | 80 |
| NTDB id 155 SP RS04850 WP 000495909.1       | MLVALDED         | GQVFNVLE               | NPAPQGRYS         | CPGCGGLVRYK        | SGKVLRS           | 78 |
| NTDB id 265 KZH43 RS04315 WP 000495911.1    | MFVARDARGELVNVLE | DKLEKQAYTCPACGGQLHLRQG | PSVRTHFAHKS       | SLKDCDEFFENES      | PEHLANKESLYHHLKKE | 78 |
| NTDB id 224 SPD RS04655 WP 000495911.1      | MFVARDARGELVNVLE | DKLEKQAYTCPACGGQLHLRQG | PSVRTHFAHKS       | SLKDCDEFFENES      | PEHLANKESLYHHLKKE | 78 |
| NTDB id 190 SPR RS04415 WP 000495911.1      | MFVARDARGELVNVLE | DKLEKQAYTCPACGGQLHLRQG | PSVRTHFAHKS       | SLKDCDEFFENES      | PEHLANKESLYHHLKKE | 78 |
| NTDB id 495 SM12261 RS04415 WP 000495920.1  | MFVARD           | SRGELVNVLE             | DKLEKQAYTCPACGGQL | RLRQG              | PSVRTHFAHKT       | 78 |
| consensus                                   | !*****!          | *****!                 | *****!            | *****!             | *****!            |    |

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|                                             |                          |                               |                               |             |                |     |
|---------------------------------------------|--------------------------|-------------------------------|-------------------------------|-------------|----------------|-----|
| NTDB id 598 KW2 RS08500 WP 021037660.1      | TKVQLEYPLSELKQIADVFVNGNL | ALEVQCSPLPQKVLKERSEGYRSQGYQVL | WLLGQKLW                      | LKERLTR     | QQGFLYFSQNM    | 160 |
| NTDB id 306408 DK878 RS06695 WP 002938107.1 | DKVEIERYLPELNQRPDILVNDK  | IAIEIQCSHLSIKRLKERTENYKT      | HGFKVLWLMGKDLWLA              | EQVTELQKNL  | VYFSEN         | 158 |
| NTDB id 155 SP RS04850 WP 000495909.1       | EQVELEKCLPSIGQVADLFVNNS  | LAEVQCSSLPI                   | SRLQLRTQAYHEAGL               | QVLWLLGKGLW | TKERLSKLHKQFLS | 158 |
| NTDB id 265 KZH43 RS04315 WP 000495911.1    | TKVQLEYPLSELKQIADVFVNGNL | ALEVQCSPLPQKVLKERSEGYRSQGYQVL | WLLGQKLW                      | LKERLTR     | QQGFLYFSQNM    | 158 |
| NTDB id 224 SPD RS04655 WP 000495911.1      | TKVQLEYPLSELKQIADVFVNGNL | ALEVQCSPLPQKVLKERSEGYRSQGYQVL | WLLGQKLW                      | LKERLTR     | QQGFLYFSQNM    | 158 |
| NTDB id 190 SPR RS04415 WP 000495911.1      | TKVQLEYPLSELKQIADVFVNGNL | ALEVQCSPLPQKVLKERSEGYRSQGYQVL | WLLGQKLW                      | LKERLTR     | QQGFLYFSQNM    | 158 |
| NTDB id 495 SM12261 RS04415 WP 000495920.1  | AEVQLEYL                 | LPKQIADVFVNGNL                | ALEVQCSPLPQKVLKERSEGYRSQGYQVL | WLLGKLW     | LKERLTR        | 158 |
| consensus                                   | *****!                   | *****!                        | *****!                        | *****!      | *****!         |     |

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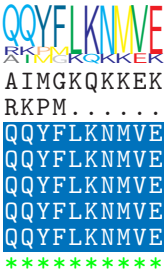
|                                             |                   |                    |               |                        |                    |     |
|---------------------------------------------|-------------------|--------------------|---------------|------------------------|--------------------|-----|
| NTDB id 598 KW2 RS08500 WP 021037660.1      | GFYVWELDKGQVRLKYL | YQDLRGK            | LHYQIKEFSYGGS | LEILRLPYKKQKISHFTVSE   | DKDICRYIRQQLYYQNL  | 240 |
| NTDB id 306408 DK878 RS06695 WP 002938107.1 | GFYVWELDFQ        | RKKLRLKSLIHEDLRGRI | ICLQEEIPFGKGR | LIAHLRLPYLAQKL         | VKIPTFKDSKLS       | 238 |
| NTDB id 155 SP RS04850 WP 000495909.1       | GFHLLWELDEK       | KEKRLRYLIHEDLRGKV  | HCLTKVFPFEG   | GNLLDILRLPFAKQAL       | SHLTFPLDRDL        | 238 |
| NTDB id 265 KZH43 RS04315 WP 000495911.1    | GFYVWELDKGQVRLKYL | YQDLRGK            | LHYQIKEFSYGGS | LLEILRLPYKKQKISHFTVSE  | DKDICRYIRQQLYYQNL  | 238 |
| NTDB id 224 SPD RS04655 WP 000495911.1      | GFYVWELDKGQVRLKYL | YQDLRGK            | LHYQIKEFSYGGS | LLEILRLPYKKQKISHFTVSE  | DKDICRYIRQQLYYQNL  | 238 |
| NTDB id 190 SPR RS04415 WP 000495911.1      | GFYVWELDKGQVRLKYL | YQDLRGK            | LHYQIKEFSYGGS | LLEILRLPYKKQKISHFTVSE  | DKDICRYIRQQLYYQNL  | 238 |
| NTDB id 495 SM12261 RS04415 WP 000495920.1  | GFYVWELDKGQVRLKYL | HQDLRGK            | LHYQIKEFPYGH  | GSLLLEILRFPYKKQKISHFTV | QDKDICRYIRQQLYYQNP | 238 |
| consensus                                   | *****!            | *****!             | *****!        | *****!                 | *****!             |     |

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|---------------------------------------------|----------------|-------------------|---------|---------|--------------------|-----------------------|-----|
| NTDB id 598 KW2 RS08500 WP 021037660.1      | WMKEQAEAYQKGEN | ILTYGLKEWYPQI     | RP      | IVGKFQ  | EQDLTSYYQH         | FYTYQKNPQNDWQKLYPPAFY | 317 |
| NTDB id 306408 DK878 RS06695 WP 002938107.1 | WMTIQEKY       | YQKGENLLTKKFEGPY  | IAPLGLN | LENFTDE | MTITTTFTQIDQNV     | KLYYENFLIN            | 309 |
| NTDB id 155 SP RS04850 WP 000495909.1       | WTLTQAESYS     | SRGENLLTKTAE      | EWYPHI  | .....   | RLPRSAIGFA         | QIQKDLTLVYQDFDQY      | 307 |
| NTDB id 265 KZH43 RS04315 WP 000495911.1    | WMKEQAEAYQKGEN | ILTYGLKEWYPQI     | .....   | RP      | IVGKFFQIEQDLTSYYQH | FYTYQKNPQNDWQKLYPPAFY | 307 |
| NTDB id 224 SPD RS04655 WP 000495911.1      | WMKEQAEAYQKGEN | ILTYGLKEWYPQI     | .....   | RP      | IVGKFFQIEQDLTSYYQH | FYTYQKNPQNDWQKLYPPAFY | 307 |
| NTDB id 190 SPR RS04415 WP 000495911.1      | WMKEQAEAYQKGEN | ILTYGLKEWYPQI     | .....   | RP      | IVGKFFQIEQDLTSYYQH | FYTYQKNPQNDWQKLYPPAFY | 307 |
| NTDB id 495 SM12261 RS04415 WP 000495920.1  | WMKEQAEAYK     | KGENILTYGLKEWYPQI | .....   | RP      | LVGNFCQIEQDLIRYYLY | FQTYQENPQNDWQMLYPPAFY | 307 |
| consensus                                   | *****!         | *****!            | *****!  | *****!  | *****!             | *****!                |     |

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|                                             |            |     |
|---------------------------------------------|------------|-----|
| NTDB id 598 KW2 RS08500 WP 021037660.1      | AIMGKQKKEK | 327 |
| NTDB id 306408 DK878 RS06695 WP 002938107.1 | RKPM.....  | 313 |
| NTDB id 155 SP RS04850 WP 000495909.1       | QQYFLKNMVE | 317 |
| NTDB id 265 KZH43 RS04315 WP 000495911.1    | QQYFLKNMVE | 317 |
| NTDB id 224 SPD RS04655 WP 000495911.1      | QQYFLKNMVE | 317 |
| NTDB id 190 SPR RS04415 WP 000495911.1      | QQYFLKNMVE | 317 |
| NTDB id 495 SM12261 RS04415 WP 000495920.1  | QQYFLKNMVE | 317 |
| consensus                                   | *****      |     |



- X non conserved
- X similar
- X ≥ 50% conserved