logo

```
NTDB id 1419 SGL RS12550 WP 010873252.1       MTSDPNPAQAFENWFEEEEGDDAFTSLIAGEETNSGIEELDFGDLFEGEPTVIQGEGFGSPSSGEEDPPVRMTLDFNSPE      80
NTDB id 413 AAK55817.1 141..845( )             ...............................................................................       0
NTDB id 374 SMU RS06885 WP 002262930.1         ...............................................................................       0
NTDB id 1047 HON27 RS03110 WP 000389061.1      ...............................................................................       0
NTDB id 146144 AA650 RS21420 WP 027404669.1    ...............................................................................       0
NTDB id 1417 SGL RS04200 WP 014407071.1        ...............................................................................       0
```
consensus

logo

```
NTDB id 1419 SGL RS12550 WP 010873252.1       AELDALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAELQDLLGVGDVEPAITNPGL     160
NTDB id 413 AAK55817.1 141..845( )             ...............................................................................       0
NTDB id 374 SMU RS06885 WP 002262930.1         ...............................................................................       0
NTDB id 1047 HON27 RS03110 WP 000389061.1      ...............................................................................       0
NTDB id 146144 AA650 RS21420 WP 027404669.1    ...............................................................................       0
NTDB id 1417 SGL RS04200 WP 014407071.1        ...............................................................................       0
```
consensus

logo

```
NTDB id 1419 SGL RS12550 WP 010873252.1       HSFAGADRVTPLTNEVLLFAAIDDLDGLINAPVLDEEFSFTELETLIDTPAPKSFATISHPFRLPVAMEEDEDEFKDLEA     240
NTDB id 413 AAK55817.1 141..845( )             ...............................................................................       0
NTDB id 374 SMU RS06885 WP 002262930.1         ...............................................................................       0
NTDB id 1047 HON27 RS03110 WP 000389061.1      ...............................................................................       0
NTDB id 146144 AA650 RS21420 WP 027404669.1    ...............................................................................       0
NTDB id 1417 SGL RS04200 WP 014407071.1        ...............................................................................       0
```
consensus

logo

```
NTDB id 1419 SGL RS12550 WP 010873252.1       LLEQADSSLGGGIAGMGGARLPARPRQVKSRSFEQTMRVPIKQLDNLSNLIGELVVKRNRLEQDQERLRQFLDNLLNQAQ     320
NTDB id 413 AAK55817.1 141..845( )             ...............................................................................       0
NTDB id 374 SMU RS06885 WP 002262930.1         ...............................................................................       0
NTDB id 1047 HON27 RS03110 WP 000389061.1      ...............................................................................       0
NTDB id 146144 AA650 RS21420 WP 027404669.1    ...............................................................................       0
NTDB id 1417 SGL RS04200 WP 014407071.1        ...............................................................................       0
```
consensus

logo

```
NTDB id 1419 SGL RS12550 WP 010873252.1       NLSDVGGRMQDLYERTLLEGALLASRSTNSRHHSSKTTYPDARITASSSSTMNDQPLDALEMDRFTGFHLLSQEMIELIV     400
NTDB id 413 AAK55817.1 141..845( )             ...............................................................................       0
NTDB id 374 SMU RS06885 WP 002262930.1         ...............................................................................       0
NTDB id 1047 HON27 RS03110 WP 000389061.1      ...............................................................................       0
NTDB id 146144 AA650 RS21420 WP 027404669.1    ...............................................................................       0
NTDB id 1417 SGL RS04200 WP 014407071.1        ...............................................................................       0
```
consensus

logo

                                        RVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLPRAIREVSMKLNKKVNLEVEGGDVLIDKMIL
NTDB id 1419 SGL RS12550 WP 010873252.1 RVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLPRAIREVSMKLNKKVNLEVEGGDVLIDKMIL 480
NTDB id 413 AAK55817.1 141..845( )   0
NTDB id 374 SMU RS06885 WP 002262930.1   0
NTDB id 1047 H0N27 RS03110 WP 000389061.1 0
NTDB id 146144 AA650 RS21420 WP 027404669.1 0
NTDB id 1417 SGL RS04200 WP 014407071.1 0
consensus

logo

                                        EHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITVSDDGAGINTEMVKQKAVEKGLISRMEAQS
NTDB id 1419 SGL RS12550 WP 010873252.1 EHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITVSDDGAGINTEMVKQKAVEKGLISRMEAQS 560
NTDB id 413 AAK55817.1 141..845( )   0
NTDB id 374 SMU RS06885 WP 002262930.1   0
NTDB id 1047 H0N27 RS03110 WP 000389061.1 0
NTDB id 146144 AA650 RS21420 WP 027404669.1 0
NTDB id 1417 SGL RS04200 WP 014407071.1 0
consensus

logo

                                        LSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTVGKGTTFTIRLPLTLSICKALCCLSDRARI
NTDB id 1419 SGL RS12550 WP 010873252.1 LSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTVGKGTTFTIRLPLTLSICKALCCLSDRARI 640
NTDB id 413 AAK55817.1 141..845( )   0
NTDB id 374 SMU RS06885 WP 002262930.1   0
NTDB id 1047 H0N27 RS03110 WP 000389061.1 0
NTDB id 146144 AA650 RS21420 WP 027404669.1 0
NTDB id 1417 SGL RS04200 WP 014407071.1 0
consensus

logo

                                        AFPMDGVEDTRDYLPKDIVTDEDGQKCVKYGKEALLLPLYPLKDLLNYNRQLSRGSVYGGKQEEDVVRVIIARGSSGNLL
NTDB id 1419 SGL RS12550 WP 010873252.1 AFPMDGVEDTRDYLPKDIVTDEDGQKCVKYGKEALLLPLYPLKDLLNYNRQLSRGSVYGGKQEEDVVRVIIARGSSGNLL 720
NTDB id 413 AAK55817.1 141..845( )   0
NTDB id 374 SMU RS06885 WP 002262930.1   0
NTDB id 1047 H0N27 RS03110 WP 000389061.1 0
NTDB id 146144 AA650 RS21420 WP 027404669.1 0
NTDB id 1417 SGL RS04200 WP 014407071.1 0
consensus

logo

                                        ALQIDQVLGEEEIVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELIEIAQGRLRTDSSGGLWRKTLTPTMEDAFMDN
NTDB id 1419 SGL RS12550 WP 010873252.1 ALQIDQVLGEEEIVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELIEIAQGRLRTDSSGGLWRKTLTPTVNEVHMDP 800
NTDB id 413 AAK55817.1 141..845( )   ....MK 2
NTDB id 374 SMU RS06885 WP 002262930.1   ....MK 2
NTDB id 1047 H0N27 RS03110 WP 000389061.1 ....MEDAFQNL 8
NTDB id 146144 AA650 RS21420 WP 027404669.1 ....MS 2
NTDB id 1417 SGL RS04200 WP 014407071.1 ....MN 2
consensus   *

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	TVLIVDDSITVRELLSLSFKKAGFRVEQARDGQEAWDQLKSGLPCDLVFCDIEMPRKNGLELLSELQADEELSSIPVALL	880
NTDB id 413 AAK55817.1 141..845( )	KILIVDDEKPISDIIKFNMTKEGYEVVTAFNGREALEQFEAE.QPDIIILDLMLPEIDGLEVAKTIR...KTSSVPILML	78
NTDB id 374 SMU RS06885 WP 002262930.1	KILIVDDEKPISDIIKFNLAKEGYDTITAFDGREALSKYEEE.NPDLIILDLMLPELDGLEVAKEVR...KNSHVPIIML	78
NTDB id 1047 HON27 RS03110 WP 000389061.1	KVMVIDDSKTIRRTAETLLQREGCEVITAVDGFEALSKIAEA.NPDIVFVDIMMPRLDGYQTCALIKNSQNYQNIPVIML	87
NTDB id 146144 AA650 RS21420 WP 027404669.1	TILIVEDSIAQREMITDLLKASGLKVTHASDGAEALEAIQTT.PDLVVLDIVMPRMNGYELCRRLKSDPKTQNVPVVMC	81
NTDB id 1417 SGL RS04200 WP 014407071.1	AVLLVEDSSSQREMISGILKDHGWQVTIACDGVEALEKLQNF.SPDLVVLDIVMPRMNGYEVCRRIKSDPKTKNVPVIMC	81

consensus `***** !* ***** * * !* * ! *! !!** * !*****!****!** ! ** * ** * *!****`

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	TSRGADRHRKVAAKLGATGYFTKPYTEKDILDAANRMLNGEVLLPGSTRKTNSILSRFKKARGNFSEEAPTIVRSNPGTL	960
NTDB id 413 AAK55817.1 141..845( )	SAKDSEFDKVIGLELGADDYVTKPFSNRELQARVKALLRRSQPMPVDGQ.EADSKPQ.PIQIGDLEIVPDAYVAKKYGEE	156
NTDB id 374 SMU RS06885 WP 002262930.1	SAKDSEFDKVIGLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAVAEENASGIP.EIIIGDLQILPDAFVAKKRGTE	157
NTDB id 1047 HON27 RS03110 WP 000389061.1	SSKDGLFDQAKGRVGSDEYLTKPFSKDELLNAIRNHVSS..............................	127
NTDB id 146144 AA650 RS21420 WP 027404669.1	SSKGEEFDRYWGMKQGADAYIAKPFQPTELVGTVKQLLRGQG..............................	123
NTDB id 1417 SGL RS04200 WP 014407071.1	SSKGEEFDRFWGMRQGADAYIAKPFQPMELVGTIKQLLRN..............................	121

consensus `*** **** ** * *!** !**!!** **** ** ***`

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	.....R.....STVLIIDDSVMVREMLSMTFKKADYHTETARDGQDAWEKLKSGLPCDLILCDIEMPRMNGLELLERIQE	1030
NTDB id 413 AAK55817.1 141..845( )	LDLTHREFELLYHLASHTGQVITREHLLETVWGYDYFG...................DVRTVDVTV.....RRLREKIED	212
NTDB id 374 SMU RS06885 WP 002262930.1	VELTHREFELLHHLATHTGQVMTREHLLETVWGYDYFG...................DVRTVDVTV.....RRLREKIED	213
NTDB id 1047 HON27 RS03110 WP 000389061.1	....	127
NTDB id 146144 AA650 RS21420 WP 027404669.1	....	123
NTDB id 1417 SGL RS04200 WP 014407071.1	....	121

consensus

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logo

NTDB id 1419 SGL RS12550 WP 010873252.1	DPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQRLIRGEVLLDLAALSADE	1095
NTDB id 413 AAK55817.1 141..845( )	TPSR...PEYILT.............RRGVGYYMRNNA*..............	234
NTDB id 374 SMU RS06885 WP 002262930.1	TPSR...PEYILT.............RRGVGYYMKSYD..............	235
NTDB id 1047 HON27 RS03110 WP 000389061.1	....	127
NTDB id 146144 AA650 RS21420 WP 027404669.1	....	123
NTDB id 1417 SGL RS04200 WP 014407071.1	....	121

consensus

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