

logo

NTDB id 374 SMU RS06885 WP 002262930.1  
 NTDB id 413 AAK55817.1 141..845( )  
 NTDB id 1046 HON27 RS03130 WP 168726941.1  
 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA  
 ..... 0  
 ..... 0  
 MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA 80  
 ..... 0  
 ..... 0  
 ..... 0

logo

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 NTDB id 1046 HON27 RS03130 WP 168726941.1  
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 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNKQKRAHTLDFRPLILLGQQLQQQSLEPALEELLQLS  
 ..... 0  
 ..... 0  
 ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNKQKRAHTLDFRPLILLGQQLQQQSLEPALEELLQLS 160  
 ..... 0  
 ..... 0  
 ..... 0

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 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR  
 ..... 0  
 ..... 0  
 HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR 240  
 ..... 0  
 ..... 0  
 ..... 0

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 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLERLLQFNQSWDAYVEQ  
 ..... 0  
 ..... 0  
 GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLERLLQFNQSWDAYVEQ 320  
 ..... 0  
 ..... 0  
 ..... 0

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 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

HGDRTDPLMPHGLVSQLLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV  
 ..... 0  
 ..... 0  
 HGDRTDPLMPHGLVSQLLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV 400  
 ..... 0  
 ..... 0  
 ..... 0

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NTDB id 374 SMU RS06885 WP 002262930.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAAGQRVGVVKQHQSI	LEELKLYTQYTPDISNDLPQQDSTSFEP	IYNI	EP	0
NTDB id 413 AAK55817.1 141..845( )	.....	.....	.....	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAAGQRVGVVKQHQSI	LEELKLYTQYTPDISNDLPQQDSTSFEP	IYNI	EP	480
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	.....	.....	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	.....	0
consensus	.....	.....	.....	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	EPEVVATVENFSDSADWAVLGGSVQQDRQYISSTQVNRNFDADLLDIFLEEA	EELLELEGIDTDLNIWVGEQENFAALNNLM	0
NTDB id 413 AAK55817.1 141..845( )	.....	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVVATVENFSDSADWAVLGGSVQQDRQYISSTQVNRNFDADLLDIFLEEA	EELLELEGIDTDLNIWVGEQENFAALNNLM	560
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	0
consensus	.....	.....	0

logo

NTDB id 374 SMU RS06885 WP 002262930.1	RYLHTLKGGANMVQATYLGLI	AHELES	IYERLI	QKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTTINALKRA	0
NTDB id 413 AAK55817.1 141..845( )	.....	.....	.....	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	RYLHTLKGGANMVQATYLGLI	AHELES	IYERLI	QKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTTINALKRA	640
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	.....	.....	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	.....	0
consensus	.....	.....	.....	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	GQNSNFQPLPVVEAFDAESEVFSEQKVI	SEI	IIDEIPVELEPALAELETHHDQVFD	AVTELATPVEMITTVTSQENEVA	0
NTDB id 413 AAK55817.1 141..845( )	.....	.....	.....	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GQNSNFQPLPVVEAFDAESEVFSEQKVI	SEI	IIDEIPVELEPALAELETHHDQVFD	AVTELATPVEMITTVTSQENEVA	720
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	.....	.....	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	.....	0
consensus	.....	.....	.....	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	ANEQDI	EAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS	ILLQLQRAVHSLKGGARMVGLEAVQAI	AYQLENAFEQFAL	0
NTDB id 413 AAK55817.1 141..845( )	.....	.....	.....	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ANEQDI	EAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS	ILLQLQRAVHSLKGGARMVGLEAVQAI	AYQLENAFEQFAL	800
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	.....	.....	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	.....	0
consensus	.....	.....	.....	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	HHFN <b>S</b> NIYDHL <b>L</b> ESAI <b>A</b> WL <b>K</b> DAIFNHNYQH <b>F</b> DGL <b>Q</b> Q <b>S</b> LENI <b>Q</b> FF <b>F</b> ETT <b>I</b> Q <b>I</b> PT <b>K</b> L <b>T</b> RAD <b>L</b> FS <b>S</b> EP <b>V</b> MT <b>F</b> I <b>Q</b> GD <b>G</b> TE <b>P</b> PP <b>M</b> M	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HHFN <b>S</b> NIYDHL <b>L</b> ESAI <b>A</b> WL <b>K</b> DAIFNHNYQH <b>F</b> DGL <b>Q</b> Q <b>S</b> LENI <b>Q</b> FF <b>F</b> ETT <b>I</b> Q <b>I</b> PT <b>K</b> L <b>T</b> RAD <b>L</b> FS <b>S</b> EP <b>V</b> MT <b>F</b> I <b>Q</b> GD <b>G</b> TE <b>P</b> PP <b>M</b> M	880
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	GA <b>W</b> EQ <b>T</b> ER <b>L</b> D <b>Q</b> NN <b>E</b> M <b>I</b> R <b>V</b> S <b>A</b> D <b>L</b> I <b>E</b> K <b>M</b> I <b>D</b> L <b>S</b> GEN <b>S</b> I <b>N</b> R <b>S</b> R <b>I</b> E <b>M</b> D <b>L</b> S <b>Q</b> F <b>S</b> H <b>T</b> L <b>V</b> E <b>M</b> E <b>L</b> A <b>I</b> Q <b>R</b> L <b>A</b> D <b>Q</b> L <b>R</b> R <b>M</b> E <b>G</b> E <b>L</b> E <b>T</b> Q <b>I</b> I <b>A</b> K <b>H</b>	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GA <b>W</b> EQ <b>T</b> ER <b>L</b> D <b>Q</b> NN <b>E</b> M <b>I</b> R <b>V</b> S <b>A</b> D <b>L</b> I <b>E</b> K <b>M</b> I <b>D</b> L <b>S</b> GEN <b>S</b> I <b>N</b> R <b>S</b> R <b>I</b> E <b>M</b> D <b>L</b> S <b>Q</b> F <b>S</b> H <b>T</b> L <b>V</b> E <b>M</b> E <b>L</b> A <b>I</b> Q <b>R</b> L <b>A</b> D <b>Q</b> L <b>R</b> R <b>M</b> E <b>G</b> E <b>L</b> E <b>T</b> Q <b>I</b> I <b>A</b> K <b>H</b>	960
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1	G <b>I</b> E <b>H</b> S <b>R</b> Y <b>T</b> D <b>F</b> P <b>L</b> E <b>M</b> D <b>Q</b> Y <b>S</b> S <b>L</b> N <b>Q</b> L <b>S</b> K <b>S</b> L <b>A</b> E <b>S</b> A <b>S</b> D <b>L</b> V <b>D</b> F <b>K</b> N <b>T</b> L <b>S</b> D <b>K</b> I <b>R</b> D <b>T</b> E <b>S</b> L <b>L</b> L <b>Q</b> S <b>R</b> I <b>Q</b> A <b>E</b> I <b>Q</b> E <b>G</b> L <b>M</b> R <b>T</b> R <b>L</b> V <b>P</b> F <b>S</b> R <b>L</b> L <b>P</b>	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	G <b>I</b> E <b>H</b> S <b>R</b> Y <b>T</b> D <b>F</b> P <b>L</b> E <b>M</b> D <b>Q</b> Y <b>S</b> S <b>L</b> N <b>Q</b> L <b>S</b> K <b>S</b> L <b>A</b> E <b>S</b> A <b>S</b> D <b>L</b> V <b>D</b> F <b>K</b> N <b>T</b> L <b>S</b> D <b>K</b> I <b>R</b> D <b>T</b> E <b>S</b> L <b>L</b> L <b>Q</b> S <b>R</b> I <b>Q</b> A <b>E</b> I <b>Q</b> E <b>G</b> L <b>M</b> R <b>T</b> R <b>L</b> V <b>P</b> F <b>S</b> R <b>L</b> L <b>P</b>	1040
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

logo

NTDB id 374 SMU RS06885 WP 002262930.1	R <b>L</b> Q <b>R</b> I <b>V</b> R <b>Q</b> T <b>S</b> T <b>A</b> L <b>N</b> R <b>P</b> A <b>E</b> L <b>F</b> V <b>N</b> N <b>T</b> E <b>G</b> E <b>L</b> D <b>R</b> N <b>I</b> L <b>E</b> R <b>L</b> V <b>T</b> P <b>L</b> E <b>H</b> M <b>L</b> R <b>N</b> A <b>I</b> D <b>H</b> G <b>L</b> E <b>D</b> R <b>A</b> Q <b>R</b> Q <b>Q</b> A <b>N</b> K <b>P</b> E <b>T</b> G <b>R</b> I <b>E</b> L <b>N</b> I <b>Q</b> R <b>Q</b> G <b>T</b> D <b>V</b>	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	R <b>L</b> Q <b>R</b> I <b>V</b> R <b>Q</b> T <b>S</b> T <b>A</b> L <b>N</b> R <b>P</b> A <b>E</b> L <b>F</b> V <b>N</b> N <b>T</b> E <b>G</b> E <b>L</b> D <b>R</b> N <b>I</b> L <b>E</b> R <b>L</b> V <b>T</b> P <b>L</b> E <b>H</b> M <b>L</b> R <b>N</b> A <b>I</b> D <b>H</b> G <b>L</b> E <b>D</b> R <b>A</b> Q <b>R</b> Q <b>Q</b> A <b>N</b> K <b>P</b> E <b>T</b> G <b>R</b> I <b>E</b> L <b>N</b> I <b>Q</b> R <b>Q</b> G <b>T</b> D <b>V</b>	1120
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

logo

NTDB id 374 SMU RS06885 WP 002262930.1	V <b>V</b> F <b>S</b> D <b>D</b> G <b>Q</b> G <b>I</b> D <b>V</b> E <b>K</b> V <b>R</b> Q <b>K</b> A <b>L</b> L <b>A</b> G <b>L</b> I <b>K</b> P <b>E</b> Q <b>D</b> L <b>E</b> Q <b>D</b> I <b>L</b> Q <b>L</b> I <b>F</b> H <b>P</b> G <b>L</b> S <b>T</b> A <b>E</b> Q <b>V</b> T <b>Q</b> I <b>S</b> G <b>R</b> G <b>V</b> G <b>L</b> D <b>V</b> Q <b>S</b> D <b>I</b> K <b>S</b> L <b>G</b> G <b>H</b> V <b>S</b> V <b>E</b> S	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	V <b>V</b> F <b>S</b> D <b>D</b> G <b>Q</b> G <b>I</b> D <b>V</b> E <b>K</b> V <b>R</b> Q <b>K</b> A <b>L</b> L <b>A</b> G <b>L</b> I <b>K</b> P <b>E</b> Q <b>D</b> L <b>E</b> Q <b>D</b> I <b>L</b> Q <b>L</b> I <b>F</b> H <b>P</b> G <b>L</b> S <b>T</b> A <b>E</b> Q <b>V</b> T <b>Q</b> I <b>S</b> G <b>R</b> G <b>V</b> G <b>L</b> D <b>V</b> Q <b>S</b> D <b>I</b> K <b>S</b> L <b>G</b> G <b>H</b> V <b>S</b> V <b>E</b> S	1200
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

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NTDB id 374 SMU RS06885 WP 002262930.1  
 NTDB id 413 AAK55817.1 141..845( )  
 NTDB id 1046 HON27 RS03130 WP 168726941.1  
 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

VYGGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYENKRYPLRYLSEFVGNQP  
 ..... 0  
 ..... 0  
 VYGGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYENKRYPLRYLSEFVGNQP 1280  
 ..... 0  
 ..... 0  
 ..... 0

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 NTDB id 413 AAK55817.1 141..845( )  
 NTDB id 1046 HON27 RS03130 WP 168726941.1  
 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

IPRLNGVMYSLPVLMIKANNQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIARQIQST  
 ..... 0  
 ..... 0  
 IPRLNGVMYSLPVLMIKANNQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIARQIQST 1360  
 ..... 0  
 ..... 0  
 ..... 0

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 NTDB id 413 AAK55817.1 141..845( )  
 NTDB id 1046 HON27 RS03130 WP 168726941.1  
 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

QRHKQLSEAVYRQRESDERLLIMIVDDSVTVRKVTSRLLERQGYDVVTAQDGVDATEQLLENIKPDLMLLDIEMPRMDGFE 1440  
 ..... 62  
 ..... 62  
 ..... 62  
 ..... 61  
 ..... 68  
 \*\*\*\*\*!\*\*\*\*\* \* \*\* \*\*!\*\*\*\*\*! \*! \*!\* \*\* \*!\*\*\*\*\*!\*\*\*!\*\*\*!\*\*\*

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NTDB id 374 SMU RS06885 WP 002262930.1  
 NTDB id 413 AAK55817.1 141..845( )  
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 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

VCKLIRNKSQMTQSNVPIYMLSSKDEFDKVRREYGLGADYTKPFSNRELLARVKAHLRRTENIESAVAEENASGIPEIII 139  
 ..... 138  
 ..... 1506  
 ..... 121  
 ..... 122  
 ..... 127  
 \* \*\* \*!\*\*\*!\*\*\*\*\* \*\*\*\*\* \* \*! \* \*!\*\*\*!\*\*\*!\*\*\*!\*\*\* \*\* \*

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NTDB id 374 SMU RS06885 WP 002262930.1  
 NTDB id 413 AAK55817.1 141..845( )  
 NTDB id 1046 HON27 RS03130 WP 168726941.1  
 NTDB id 1417 SGL RS04200 WP 014407071.1  
 NTDB id 1057961 ACFJIW RS08990 WP 243746142.1  
 NTDB id 1047 HON27 RS03110 WP 000389061.1  
 consensus

GDLQILPDAFVAKKRGTEVELTHREFELLHHLATHGQVMTREHLLLETVWGYDYFGDVRTVDVTVRRLREKIEDTSPSRPE 219  
 ..... 218  
 ..... 1506  
 ..... 121  
 ..... 122  
 ..... 127

<0

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NTDB id 374 SMU RS06885 WP 002262930.1	YILTRRGVGYMRSYD	235
NTDB id 413 AAK55817.1 141..845( )	YILTRRGVGYMKSYD.	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
NTDB id 1057961 ACFJIW RS08990 WP 243746142.1	.....	122
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
consensus		

 non conserved  
 similar  
 ≥ 50% conserved