

NTDB id 1366	NTHI RS01950 WP 011271972.1	MTSY....ALLHTQRVTAQNGEIFTI.....SPDLW	27
NTDB id 1355	HI 0298 AAC21962.1	MTSY....ALLHTQRVTAKNGEVFTI.....SPDLW	27
NTDB id 1384	A4U84 RS08525 WP 010787006.1	MSQY....T.....ICEQQTERIFDI.....SPSRW	22
NTDB id 1468	ASU2 RS05090 WP 014991734.1	MQY....S.....VCDMNSQQVFDI.....SESLW	21
NTDB id 44345	DAECLI1 RS19785 WP 001025180.1	MNIPQL.....	6
NTDB id 1436	BW25113 RS00530 WP 001025145.1	MNIPQL.....	6
NTDB id 1168	A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAEELISATQEQAQVVTQVSASGTSVPEALLELSIFHAQELTEQLSHIFGLPETDLSRYDYANL	72
NTDB id 1401	DSB67 RS12665 WP 010643259.1	MLTNLSTVLRLQAGILTFQSQEESLLEQVKASGISMPPEALLSSGFFQSHETLEHLSVFGLSCTLSNQYHEYASL	72
NTDB id 1293	VP RS12240 WP 005479695.1	MHSNLSTILRLQKGLLTFQSQEESLIEQVKASGISMPPEALLSSGFFTSSELAEHLSSVFGLSQPELSQYHEYASL	72
NTDB id 1110	NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPRHRV	71
NTDB id 1251	GC085 RS07725 WP 011946523.1	MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISILLQYIVKNKILSAEQIALTAQAQNFVPMPLDINCIDVGTI	80
NTDB id 1018	ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPLLDLGVFDPALF	80
NTDB id 1058	ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDITVAYLIEEVHLSPLSLIAETISAEFAEYPFDLDVYDTSQI	80
consensus		*.....*.....*	

NTDB id	1366	NTHI	RS01950	WP	011271972.1	ERNQQQQS	L	L	R	Y	F	A	P	L	K	E	E	N	N	R	L	W	L	G	V	D	S	L	S	N	L	S	A	C	E	T	I	A	F	I	T	G	K	P	V	E	P	I	L	L	E	S	S	Q	L	K	E	L	L	Q	L	L	T	P	H	Q	M	Q	V	E	E	Q	V	K	..	105	
NTDB id	1355	HI	0298	AAC2	1962.1	ERNQQQQS	L	L	R	Y	F	A	P	L	K	E	E	N	N	R	L	W	L	G	V	D	S	L	S	N	L	S	A	C	E	T	I	A	F	I	T	G	K	P	V	E	P	I	L	L	E	S	S	Q	L	K	E	L	L	Q	L	L	T	P	N	Q	M	Q	V	E	E	Q	V	K	..	105	
NTDB id	1384	A4U84	RS08525	WP	010787006.1	QKNCEEKQ	L	L	R	Y	L	A	P	V	P	Q	E	T	E	H	K	L	W	L	A	V	D	D	E	N	N	L	T	A	C	E	I	F	A	F	M	T	H	K	Q	I	E	P	V	V	I	A	S	D	E	L	K	Y	L	N	A	L	S	P	E	Q	Q	P	I	Y	E	E	S	..	100		
NTDB id	1468	ASU2	RS05090	WP	014991734.1	QKNCEDEKH	L	L	R	Y	L	A	P	I	Q	E	N	D	D	T	L	W	L	A	I	D	D	M	N	N	L	S	A	C	E	I	F	A	F	I	A	H	K	T	I	E	P	V	L	I	S	S	D	E	L	K	Y	L	N	A	L	S	P	E	Q	Q	S	L	Y	E	E	T	..	99			
NTDB id	44345	DAECLI1	RS19785	WP	001025180.1	TAL	C	L	R	Y	Q	G	V	L	L	D	A	S	E	E	V	V	H	V	A	V	D	A	P	S	H	E	L	L	D	A	L	H	F	A	T	T	K	R	I	E	I	T	C	W	T	R	Q	M	E	G	H	A		63																	
NTDB id	1436	BW25113	RS00530	WP	001025145.1	TAL	C	L	R	Y	H	G	V	L	L	D	A	S	E	E	V	V	H	V	A	V	D	A	P	S	H	E	L	L	D	A	L	H	F	A	T	T	K	R	I	E	I	T	C	W	T	R	Q	M	E	G	H	A		63																	
NTDB id	1168	A1552VC	RS11070	WP	000957200.1	CQQLGLREL	I	T	R	Y	D	A	L	P	I	A	K	Q	S	N	L	L	L	A	V	S	D	P	T	L	L	Q	A	E	E	F	R	F	A	T	G	L	Q	V	E	L	A	L	A	D	H	R	A	L	Q	A	A	I	R	R	L	Y	G	R	S	I	Q	G	A	A	N	Q	G	K	E	..	152
NTDB id	1401	DSB67	RS12665	WP	010643259.1	CQTLGLRDL	I	T	R	H	N	A	L	P	L	N	R	T	S	T	L	L	L	A	V	A	D	P	T	N	L	Q	A	E	D	F	R	F	A	T	G	L	Q	V	E	L	V	L	A	D	F	R	E	L	T	A	A	I	R	R	L	Y	G	R	S	L	G	Q	E	K	S	G	L	K	E	..	152
NTDB id	1293	VP	RS12240	WP	005479695.1	CQQLGLRDL	I	T	R	H	N	A	L	P	L	H	R	T	P	S	T	L	L	L	A	V	A	D	P	T	N	Q	A	E	D	F	R	F	A	T	G	L	Q	V	E	L	V	L	A	D	F	R	E	L	T	A	A	I	R	R	L	Y	G	R	S	L	S	H	E	K	S	G	L	K	E	..	152
NTDB id	1110	NGFG	RS09235	WP	003689817.1	LMGVLTEEQ	M	V	E	F	H	C	V	P	V	F	R	R	G	D	K	V	F	F	A	V	S	D	P	T	Q	M	P	Q	I	K	T	V	S	A	A	G	I	A	V	E	L	V	I	V	E	D	D	Q	L	A	G	L	L	D	W	V	G														

NTDB id	1366	NTHI RS01950 WP 011271972.1	FYQHQETHFEQE	DDEPVI	RLLNQIFESALQKNASDIHLETLADQFQVVRFRIDGVLQPQPLISKIF	170			
NTDB id	1355	HI 0298 AAC21962.1	FYQHQETHFEQE	DDEPVI	RLLNQIFESALQKNASDIHLETLADQFQVVRFRIDGVLQPQPLISKIF	170			
NTDB id	1384	A4U84 RS08525 WP 010787006.1	LAFVEQE.QEQLNLNDP	PIIQLLDNLFKFCLAQNASDIHIEPRKQKLIRLRIDGVLHYLYKSLSIQ	165				
NTDB id	1468	ASU2 RS05090 WP 014991734.1	LNAYQSPDNLDLLNQNDP	PIIQLLDNLFKFCLQKNASDIHFEPQKEKLRLRIRLDGVLHIYKSLSFS	165				
NTDB id	44345	DAECLI1 RS19785 WP 001025180.1	SRTQQTLPVAVQEKHQ	PKAELLTRTQLQSALQKRASDIHIEPADNAYRIRLRIDGVLHPLPDVSPDA	129				
NTDB id	1436	BW25113 RS00530 WP 001025145.1	SRTQQTLPVAVQEKHQ	PKAELLTRTQLQSALQKRASDIHIEPADNAYRIRLRIDGVLHPLPDVSPDA	129				
NTDB id	1168	A1552VC RS11070 WP 000957200.1	ISQ..DELANLVKVSDDELQSIEDLSQ	DDSPVSRRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGITLVETQPPASH	230				
NTDB id	1401	DSB67 RS12665 WP 010643259.1	INQ..DELAGLVDIGEDIEENIEDLSQ	DESPPVSRYYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQPPSH	230				
NTDB id	1293	VP RS12240 WP 005479695.1	INQ..EELASLVDVGADEIDNIEDLSQ	DESPPVSRYYINQILLDAVRKGASDIHFEPYEKMRYRVRLRCDGILIEIQPPNH	230				
NTDB id	1110	NGFG RS09235 WP 003689817.1	GEGQEEESHSTLYIDNEEA	EADGPVPRFIHKTLSDALRSGASDIHFEFYEHNRARIRFRVDGQLREVVQPPIA	220				
NTDB id	1251	GC085 RS07725 WP 011946523.1	DSGDLEGLEISAD.DEDQDIDTATSVT	DDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIYRQDGIHEVATPPAS	239				
NTDB id	1018	ACIAD RS01685 WP 004920473.1	.ELD...LDVEVDPHTTDDDDDEDKDK	DEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRDGVLRLIATPPLQ	234				
NTDB id	1058	ABD1 RS01615 WP 001274986.1	.EFD...LDVNLDGPTAQEDEEEAPQG	DEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRYRDGVLRIANPPLQ	234				
consensus			***!*	* ** *	****	!!!!*!*!* * *	*****	!!*!!	*

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NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 44345 DAECLI1 RS19785 WP 001025180.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 44345 DAECLI1 RS19785 WP 001025180.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 44345 DAECLI1 RS19785 WP 001025180.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GCO85 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	LINSCH.QGYGRICVYQFLHWQQN.....GY.....QTDFENLRES	441
NTDB id 1355 HI 0298 AAC21962.1	LANSCDH.QGYGRICVYQFLHWQQN.....DY.....QTDFKNLRAS	441
NTDB id 1384 A4U84 RS08525 WP 010787006.1	GC..DECY.QGYGRICVYQCLSR TAK.....KFDKQTAYLDFSSLRES	439
NTDB id 1468 ASU2 RS05090 WP 014991734.1	GC..DNCY.HCYKGRTCTYQQLAKQ GK.....FFEKSTAYLDYDNLRAS	439
NTDB id 44345 DAEC LI1 RS19785 WP 001025180.1	I.....PDNVWSP LPHWQAPGC..VHCY.HCFYGR TALFEVLPITPVIRQLISANTDVESLETHARQACMRTL FEN	436
NTDB id 1436 BW25113 RS00530 WP 001025145.1	I.....PDNVWSP LPHWQAPGC..VHCY.HCFYGR TALFEVLPITPVIRQLISANTDVESLETHARQACMRTL FEN	436
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LLQSQFAFQPNEIL....YEANAA GC..NECT.GGYSGRVCTIYEVMAFNTE LAEAIMQRASIHQIERLAKANCMQTLQES	541
NTDB id 1401 DSB67 RS12665 WP 010643259.1	QLQH.LGIANTEQI....FQANPD GC..NECT.HGYSGR TCTIYEV MKFDESISEALIKGASVHELEKLAIANCMQTLQMS	540
NTDB id 1293 VP RS12240 WP 005479695.1	QLQH.LGIQTTDNI....FRANPD GC..NECT.HGYSGR TCTIYEV MRFDESI SEALIKGASVHELEKLAIANCMSTLQMS	540
NTDB id 1110 NGFG RS09235 WP 003689817.1	SALKEVGFTDEDLAK.DWKLYRAV GC..DRCRGQGYKGRACVYEVMPISEEMQRVIMNNGTEVGILDVAYKEG MVDLRRRA	537
NTDB id 1251 GC085 RS07725 WP 011946523.1	QGLIELGFKEADLV..NLKLYKAV GC..EQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQS	553
NTDB id 1018 ACIAD RS01685 WP 004920473.1	RSLLMGMFTPEDLAQPEFQIFEPV GC..HDCR.EGYKGRVCTIYEV MKITPEISKIIMEDGNALETAATAETLCFNNLRRS	549
NTDB id 1058 ABD1 RS01615 WP 001274986.1	QSLLEMGFTEQDLAHPDFRVFQPV GC..LECR.EGYKGRVCTIYEV MKVTPEISKIIMEDGNALETAATAEKLGFNNLRRS	549
consensus	*** *! !**!! ***** * *	

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	GLEKVSQGITDEKEIERV LGKNS..	464
NTDB id 1355 HI 0298 AAC21962.1	GLEKVSQGITDEKEIERV LGKNL..	464
NTDB id 1384 A4U84 RS08525 WP 010787006.1	AKQKIEQQLTNETEVDRVLGYE...	461
NTDB id 1468 ASU2 RS05090 WP 014991734.1	AEQKLAANITTVDEVKRV LGDG...	461
NTDB id 44345 DAEC LI1 RS19785 WP 001025180.1	GCLAVEQCLTTFEELIRVLGM PHGE	461
NTDB id 1436 BW25113 RS00530 WP 001025145.1	GCLAVEQCLTTFEELIRVLGM PHGE	461
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLEKLEEGITSFAELQRVLYF....	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	GIEKLKQGITSFRELQRVLYF....	561
NTDB id 1293 VP RS12240 WP 005479695.1	GIEKLKQGITSFSELQRVLYF....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	GILKIMQGITSLEEV TANTND....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	GIEKVKEGITTIEEVNRVTVD....	574
NTDB id 1018 ACIAD RS01685 WP 004920473.1	GLKKVMQGVTSLQEINRV TSE....	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	GLKKVMQGVTSLQEVNRVTSE....	570
consensus	* * * * * ! * ! * * *	

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