

logo

NTDB	id	1366	NTHI	RS01950	WP	011271972.1	.....	MTSY	...	ALLHTQRV	TAQNGE	IFTI	.....	SPDLW	27	
NTDB	id	1355	HI	0298	AAC21962.1		.....	MTSY	...	ALLHTQRV	TAKNGEV	FTI	.....	SPDLW	27	
NTDB	id	1384	A4U84	RS08525	WP	010787006.1		MSQY	...	T....	ICEQQTER	IFDI	.....	SPSRW	22	
NTDB	id	1468	ASU2	RS05090	WP	014991734.1		MQY	...	S....	VCDMNSQV	FDI	.....	SESLW	21	
NTDB	id	1436	BW25113	RS00530	WP	001025145.1							.....		6	
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	.....	MLTNLV	AI	RQ	AEL					72
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	.....	MLTNLSTV		RQ	AGIL					72
NTDB	id	1293	VP	RS12240	WP	005479695.1	.....	MHSNLSTIL		RQ	KGL					72
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	.....	MSVGLLRIL		VQ	QNVV					71
NTDB	id	1251	GC085	RS07725	WP	011946523.1	MALATEEY	RL	QG	IG	QL					80
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	MSAFTTP	PK	FG	FI	RR					80
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	MSALHT	SP	K	FT	GF	FR				80
consensus								*		*				*	*	*

logo

NTDB	id	1366	NTHI	RS01950	WP	011271972.1	ER	N	Q	Q	Q	Q	S	L	L	L	R	F	A	L	P	L	K	E	E	N	N	R	L	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	T	P	H	Q	M	Q	V	E	E	Q	V	K	..	105																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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NTDB	id	1436	BW25113	RS00530	WP	001025145.1		T	A	L	C	R	Y	H	G	V	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	C	Q	L	G	L	R	E	L	I	T	R	Y	D	A	L	P	I	A	K	Q	G	N	L	L	L	A	V	S	D	P	T	L	I	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	C	Q	L	G	L	R	D	I	T	R	H	N	A	L	P	L	N	R	T	S	T	L	L	I	L	A	V	A	D	P	T	L	I	Q	A	E	E	D	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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NTDB	id	1110	NGFG	RS09235	WP	003689817.1	L	M	G	V	L	T	E	E	Q	M	V	E	H	C	V	P	F	R	R	G	D	K	V	F	F	A	V	S	D	P	T	Q	M	P	Q	I	Q	K	T	V	S	A	A	G	I	A	V	E	L	V	E	D	D	Q	L	A	G	L	L	D	V	G	S	R	S	T	S	L	..	148																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	1251	GC085	RS07725	WP	011946523.1	P	V	N	L	V	N	E	K	I	K	R	H	A	M	V	P	L	F	S	R	G	T	N	L	Y	L	A	T	D	P	S	K	Q	A	S	L	K	E	I	Q	F	H	T	G	L	N	T	H	A	I	V	V	E	T	D	K	L	S	A	L	I	D	N	L	L	T	A	K	E	S	Q	G	L	S	E	Y	V	E	..	160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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consensus							*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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NTDB	id	1366	NTHI RS01950 WP 011271972.1	FYQHQTHTFEQEDDEPVIRLLNQIFESALQKNASDIHLETADQQFVFRIDGVLQPQPLISKIF	170
NTDB	id	1355	HI 0298 AAC21962.1	FYQHQTHTFEQEDDEPVIRLLNQIFESALQKNASDIHLETADQQFVFRIDGVLQPQPLISKIF	170
NTDB	id	1384	A4U84 RS08525 WP 010787006.1	LAFVEQS.QEQLNLNDPIIQLLDNLKFKFLAQNASDIHIEPRKKQKLIRLRIDGVLHLHYKSLSISQL	165
NTDB	id	1468	ASU2 RS05090 WP 014991734.1	LNYSQSPNLDLLNQNDPIIQILLDNLFKFKCLQNASDIHFEPQKEKLIIRLRIDGVLHLHYKSLSISFL	165
NTDB	id	1436	BW25113 RS00530 WP 001025145.1	SRTYQTLPLVAVQEKHQPKAELLTRTILQSALEQRASDIHEPADAAYRIRLRIDGVLHPLPDVSPDA	129
NTDB	id	1168	A1552VC RS11070 WP 000957200.1	ISQ..DELANLVKVSDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGITLVETQQPASHL	230
NTDB	id	1401	DSB67 RS12665 WP 010643259.1	INQ..DELAGLVDIGEDEIENIEDLSQDDSPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGITLIEIQPPSHL	230
NTDB	id	1293	VP RS12240 WP 005479695.1	INQ..EELASLVDVGAEIDNIEDLSQDDSPVSRYINQILLDAVRKGASDIHFEPYEMKYRVRLRCDGITLIETQPPNH	230
NTDB	id	1110	NGFG RS09235 WP 003689817.1	GEGGEESHTLYIDNEEAEDGPVRFIHKTLSDALRSASDIHFEFYEHNARIFRVGDGLREVQPPHIV	220
NTDB	id	1251	GC085 RS07725 WP 011946523.1	DSGDLEGLEISAD.DEDQDIDTATSVTDAPIVKFVNKILLDAIRQGASDIHFEPYEREYRIRYRQDGTILHEVATPPASL	239
NTDB	id	1018	ACIAD RS01685 WP 004920473.1	.ELD...LDVEVPHTTTDDDDEDCKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRYRVGDVLRLIATPPLQL	234
NTDB	id	1058	ABD1 RS01615 WP 001274986.1	.EFD...LDVNLDGPTAQEDDEEAPQGGDEAPIVKYINKLLIDAIRMASDLHFEPYEKSYRVRYRVGDVLRQIANPPLQL	234
consensus				* *** ***** !!!!!!** **** * *	

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NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U8A RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
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 GC085 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 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 GC085 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 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 GC085 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	LINS	C	QGYRGRIGVYQFLHWQQN.....GY.....QTDFEN	LRES	441			
NTDB id 1355 HI 0298 AAC21962.1	LAN	S	C	DCH.QGYRGRIGVYQFLHWQQN.....DY.....QTDFKN	LRAS	441		
NTDB id 1384 A4U84 RS08525 WP 010787006.1	GC	..DECY.QGYRGRIGVYQCLSR	TAK.....KFDKQTAYLDFSS	LRES	439			
NTDB id 1468 ASU2 RS05090 WP 014991734.1	GC	..DN	CY.HGYKGR	TGIYQLLAKQGGK.....FFEKSTAYLDYDN	LRAS	439		
NTDB id 1436 BW25113 RS00530 WP 001025145.1	I.....PDNVWPSPLPHWQAP	GC	..VHCY.HG	FYGR	TALFEVL	PITPVIRQLISANTDVESLETHARQAGMRTL	LFEN	436
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LLQSQFAFPNEIL...YEANAAGC	..NE	CT.GGYSGRVGIYEVMAFNT	ELAEAIMQRASIHQIERLAKANGM	QTLQES		541	
NTDB id 1401 DSB67 RS12665 WP 010643259.1	QLQH.IGIANTEQI...FQANPDGC	..NE	CT.HGYSGR	TGIYEV	MKFDES	LSEALIKGASVHELEKLAIANGM	QTLQMS	540
NTDB id 1293 VP RS12240 WP 005479695.1	QLQH.LGIQTTDNI...FRANPDGC	..NE	CT.HGYSGR	TGIYEV	MRFDES	LSEALIKGASVHELEKLAIANGM	STLQMS	540
NTDB id 1110 NGFG RS09235 WP 003689817.1	SALKEVGFTDEDLAK.DWKLYRAVGC	..DR	CRGQGYKGRAGVYEV	MPISEEMQ	RVIMNNGTEVGIL	LDVAYKEGMVD	LRRRA	537
NTDB id 1251 GC085 RS07725 WP 011946523.1	QGLIELGFKEADLV..NLKLYKAVGC	..EQ	CT.SGYRGRVGLFEVL	PMTKELGQLIMSGGNSLDIL	KLAAQSEGMLTIFQS		553	
NTDB id 1018 ACIAD RS01685 WP 004920473.1	RSLLEMGFTPEDLAQPEFQIFEPVGC	..HD	CR.EGYKGRVGIYEV	MKITPEISKIIMEDGNALEIAATAETL	GFNNLR	RS	549	
NTDB id 1058 ABD1 RS01615 WP 001274986.1	QSLLEMGFTEQDLAHPDFRVFQPVGC	..LE	CR.EGYKGRVGIYEV	MKVTPETISKIIMEDGNALEIAAASEKL	GFNNLR	RS	549	
consensus								

logo

NTDB id 1366 NTHI RS01950 WP 011271972.1	GLEKVSQGITDEKEIERVLGKNS..	464
NTDB id 1355 HI 0298 AAC21962.1	GLEKVSQGITDEKEIERVLGKNL..	464
NTDB id 1384 A4U84 RS08525 WP 010787006.1	AKQKIEQQLTNETEVDRVLGYE...	461
NTDB id 1468 ASU2 RS05090 WP 014991734.1	AEQKLAANITTVDEVKRVLGDG...	461
NTDB id 1436 BW25113 RS00530 WP 001025145.1	GCLAVEQGLTTFEELIRVLGMPHGE	461
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GLEKLREGITSFAELQRVLYF....	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	GILKIMQGITSLEEVTANTND....	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