

NTDB id	601	KW2	RS02615	WP	021036805.1	MLCQNCNINEA.....TI	13
NTDB id	378	SMU	RS02690	WP	002263569.1	MLCQNCKLINEA.....TI	13
NTDB id	241	SP	RS04015	WP	000882523.1	MLCQNCKINDS.....TI	13
NTDB id	281	KZH43	RS03550	WP	000882517.1	MLCQNCKINDS.....TI	13
NTDB id	245	SPD	RS03860	WP	000882517.1	MLCQNCKINDS.....TI	13
NTDB id	243	SPR	RS03635	WP	000882517.1	MLCQNCKINDS.....TI	13
NTDB id	85	BSU	00860	NP	387967.1	..MMFGRFTERAQKVLALAQEEALARLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id	610	V4T04	RS10165	WP	012897346.1	MKFENIKYTPTLDRILEKAEEYAHHQYQYGTTIESAHLLAAMATTSGSIAYSLLAGMNVDDSDLLIDL.....EDLSSHVKVR	77
NTDB id	290	KZH43	RS10025	WP	001109677.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id	289	SPD	RS10700	WP	001109677.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id	287	SP	RS11210	WP	001109712.1	MNYSKALNECIESAYMVAGHFHGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id	377	SMU	RS09275	WP	002262344.1	...MTDYSLKMQEVEFRLAQFEAAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAIIAIGKKPKSSSN..DI	79
NTDB id	297	STER	RS00545	WP	011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVVLAMEKRPKDLSESIDI	81
NTDB id	329	STU	RS10020	WP	011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFLLETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVVLAMEKRPKDLSESIDI	81
consensus						*** * * * * *** ** **	

NTDB id 601 KW2 RS02615 WP 021036805.1	HL YTSVNGQKKQIDLCQNCYQ...IMKSGGQALFGAGNASNGNSDEP.....FNP.FNDIFSA LQQG.DFNGAASN..	80
NTDB id 378 SMU RS02690 WP 002263569.1	HL YANVNGQKKQIDLCQNCYQ...IMKTDPE NGPLNHL SQQNSSS.....INPFDDFFGDLNNFRAFNNDLP.	79
NTDB id 241 SP RS04015 WP 000882523.1	HL YTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFGKMTDLNNRD.....FDP.FG DFFNDLNNFRPSSN..TP.	76
NTDB id 281 KZH43 RS03550 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFGKMTDLNNRD.....FDP.FG DFFNDLNNFRPSSN..TP.	76
NTDB id 245 SPD RS03860 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFGKMTDLNNRD.....FDP.FG DFFNDLNNFRPSSN..TP.	76
NTDB id 243 SPR RS03635 WP 000882517.1	HL YTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFGKMTDLNNRD.....FDP.FG DFFNDLNNFRPSSN..TP.	76
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAEEVMTAASFLAIHNNEAVGTEHLLYALLQVEDFGFLQLLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILH DGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILH DGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MLLEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVITERYAGFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLM AFLLHKDLMVCRLLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEVGESEHVLM AFLLHKDLMVCRLLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus	* ** * * * * *	

NTDB id	601	KW2	RS02615	WP	021036805.1	QTP	P	T	Q	T	G	C	R	G	P	R	G	P	Q	N	P	R	A	K	Q	P	K	G	M	L	E	F	G	I	N	T	E	S	A	R	R	G	E	I	D	P	V	I	G	R	D	E	I	K	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I									
NTDB id	378	SMU	RS02690	WP	002263569.1	NTP	P	T	Q	A	G	G	G	N	G	G	N	.N	R	R	P	G	G	P	Q	Q	A	S	Q	K	P	N	G	L	E	E	F	G	I	N	L	T	D	I	A	R	K	G	E	I	D	P	V	I	G	R	D	E	E	I	T	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I		
NTDB id	241	SP	RS04015	WP	000882523.1	PIP	P	T	Q	S	G	G	Y	G	G	N	G	G	Y	G	S	Q	N	R	G	S	A	Q	T	P	P	S	Q	E	K	G	L	E	E	F	G	I	N	V	T	E	I	A	R	R	G	D	I	D	P	V	I	G	R	D	E	I	I	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I
NTDB id	281	KZH43	RS03550	WP	000882517.1	PIP	P	T	Q	S	G	G	Y	G	G	N	G	G	Y	G	S	Q	N	R	G	S	A	Q	T	P	P	S	Q	E	K	G	L	E	E	F	G	I	N	V	T	E	I	A	R	R	G	D	I	D	P	V	I	G	R	D	E	I	I	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I
NTDB id	245	SPD	RS03860	WP	000882517.1	PIP	P	T	Q	S	G	G	Y	G	G	N	G	G	Y	G	S	Q	N	R	G	S	A	Q	T	P	P	S	Q	E	K	G	L	E	E	F	G	I	N	V	T	E	I	A	R	R	G	D	I	D	P	V	I	G	R	D	E	I	I	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I
NTDB id	243	SPR	RS03635	WP	000882517.1	PIP	P	T	Q	S	G	G	Y	G	G	N	G	G	Y	G	S	Q	N	R	G	S	A	Q	T	P	P	S	Q	E	K	G	L	E	E	F	G	I	N	V	T	E	I	A	R	R	G	D	I	D	P	V	I	G	R	D	E	I	I	R	V	I	E	I	L	N	R	R	T	K	N	N	P	V	L	I
NTDB id	85	BSU	00860	NP	387967.1	G	S	S	A	A	G	T	N	S	N	A	N	T	P	T	L	D	S	L	A	R	D	L	A	I	A	K	E	D	S	L	D	P	V	I	G	R	S	K	E	I	Q	R	V	I	E	V	L	S	R	R	T	K	N	N	P	V	L	I																
NTDB id	610	V4T04	RS10165	WP	012897346.1	AVTPMSK	R	K	M	A	K	G	V	A	E	N	S	T	T	P	L	D	S	V	S	S	D	L	T	E	E	A	R	L	G	K	L	D	P	M	I	G	R	E	A	E	I	D	R	L	I	H	I	L	S	R	R	T	K	N	N	P	V	L	I															
NTDB id	290	KZH43	RS10025	WP	001109677.1	.LRQRHRTV	.	A	D	K	Q	N	S	M	A	N	M	M	G	M	P	Q	T	P	S	G	G	L	E	D	Y	T	H	D	L	T	E	Q	A	R	S	G	K	L	E	P	V	I	G	R	D	K	E	I	S	R	M	I	Q	I	L	S	R	K	T	K	N	N	P	V	L	I								
NTDB id	289	SPD	RS10700	WP	001109677.1	.LRQRHRTV	.	A	D	K	Q	N	S	M	A	N	M	M	G	M	P	Q	T	P	S	G	G	L	E	D	Y	T	H	D	L	T	E	Q	A	R	S	G	K	L	E	P	V	I	G	R	D	K	E	I	S	R	M	I	Q	I	L	S</																		

NTDB	id	601	KW2	RS02615	WP	021036805.1	EVTDEDMPVITEKDIETQIV EQKTQIPVGD LKEKEQTQLINLADDLKAHVIGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGP	482
NTDB	id	378	SMU	RS02690	WP	002263569.1	KLDKENTPVI TEKNIEVIVEEQKTNIPIVGELKEKEQSQLIHLADDLKTRVIGQDAAVDKIAKAIRNRVRVGLGTPNRPIGSFLFVGP	489
NTDB	id	241	SP	RS04015	WP	000882523.1	KITDQDTPSI SEKTEIHIIEQKTNIPIVGDLKEKEQSQLIHLAEDL KSHVIGQDDAVDKIAKAIRNRVRVGLGTPNRPIGSFLFVGP	488
NTDB	id	281	KZH43	RS03550	WP	000882517.1	KITDQDTPTI SEKTEIHIIEQKTNIPIVGDLKEKEQSQLIHLAEDL KSHVIGQDDAVDKIAKAIRNRVRVGLGTPNRPIGSFLFVGP	488
NTDB	id	245	SPD	RS03860	WP	000882517.1	KITDQDTPTI SEKTEIHIIEQKTNIPIVGDLKEKEQSQLIHLAEDL KSHVIGQDDAVDKIAKAIRNRVRVGLGTPNRPIGSFLFVGP	488
NTDB	id	243	SPR	RS03635	WP	000882517.1	KITDQDTPTI SEKTEIHIIEQKTNIPIVGDLKEKEQSQLIHLAEDL KSHVIGQDDAVDKIAKAIRNRVRVGLGTPNRPIGSFLFVGP	488
NTDB	id	85	BSU	O0860	NP	387967.1	EKQQGENSEVTVDDIAMVVSSWTGVVPVSKIAQTETDKLLNMENILHSRVIGQDEAVVA VAKAVRRARAGLKDPKRPIGSFI FLGP	546
NTDB	id	610	V4T04	RS10165	WP	012897346.1	.VKEDKRQEVTDAQAVAMASTLTCTVPTQMTKSESDDL NLEKLHHRVVGQEEAISAVSRAIRRARSGVADSRPMGSFMFLGP	555
NTDB	id	290	KZH43	RS10025	WP	001109677.1	.VPV.YKDLVTESD ILTTLSRLSGIPVQKLTQTD AKKYLNLEAE LHKRIVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSF MFLGP	550
NTDB	id	289	SPD	RS10700	WP	001109677.1	.VPV.YKDLVTESD ILTTLSRLSGIPVQKLTQTD AKKYLNLEAE LHKRIVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSF MFLGP	550
NTDB	id	287	SP	RS11210	WP	001109712.1	.VPV.YKDLVTESD ILTTLSRLSGIPVQKLTQTD AKKYLNLEAE LHKRIVIGQDQAVSSISRAIRRNQSGIRSHKRPIGSF MFLGP	550
NTDB	id	377	SMU	RS09275	WP	002262344.1	.PLLKKRAEVKBEEDILATLSKLSGIPVKKLTQAD SKKYLNLERELHHRVIGQDDAVSSISRAIRRNQSGIRV GKRPIGSFMFLGP	553
NTDB	id	297	STER	RS00545	WP	011680614.1	.AKFPKPALVDADQIMQTL SRLSGIPVEKMTQTD SKRYLNLES ELHKRVIGQDEAVSAISR AIRRNQSGIRTGKRPIGSFMFLGP	556
NTDB	id	329	STU	RS10020	WP	011225298.1	.AKFPKPALVDADQIMQTL SRLSGIPVEKMTQTD SKRYLNLES ELHKRVIGQDEAVSAISR AIRRNQSGIRTGKRPIGSFMFLGP	556
consensus							* ***** *** ***** * ***** * ***** *	

[illegible]

NTDB	id	601	KW2	RS02615	WP	021036805.1	Q	I	L	E	D	G	R	L	T	D	A	Q	G	R	T	V	S	F	K	D	S	L	I	I	M	T	S	N	A	C	T	G	K	.	.	V	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	K	S	V	L	G	L	G	D	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	S	A	L	S	K	645
NTDB	id	378	SMU	RS02690	WP	002263569.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	T	I	I	M	T	S	N	A	C	T	G	K	.	.	S	E	A	N	V	G	F	G	A	S	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	Q	A	L	S	K	652
NTDB	id	241	SP	RS04015	WP	000882523.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	M	T	S	N	A	C	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K	65
NTDB	id	281	KZH43	RS03550	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	M	T	S	N	A	C	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K	651
NTDB	id	245	SPD	RS03860	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	M	T	S	N	A	C	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K	651
NTDB	id	243	SPR	RS03635	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	M	T	S	N	A	C	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K	651
NTDB	id	85	BSU	O0860	NP	387967.1	Q	V	L	E	D	G	R	L	T	D	S	K	G	R	T	V	D	F	R	N	T	I	L	I	M	T	S	N	V	G	A	S	E	L	K	R	N	K	V	V	G	F	N	V	Q	D	E	T	Q	N	H	K	D	M	K	D	K	V	M	G	E	L	K	A	F	R	P	E	F	I	N	R	I	D	E	I	V	F	H	S	L	E	K	716
NTDB	id	610	V4T04	RS10165	WP	012897346.1	Q	I	L	D	D	G	F	V	T	D	T	K	G	R	K	V	D	F	R	N	T	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	N	I	T	A	D	Y	S	A	M	K	S	R	I	L	E	E	L	K	R	H	Y	R	P	E	F	I	N	R	I	D	E	I	V	F	H	S	L	E	S	725
NTDB	id	290	KZH43	RS10025	WP	001109677.1	Q	V	L	D	D	G	V	L	T	D	S	K	G	R	K	V	D	F	S	N	T	I	I	M	T	S																																																										

