

NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYL DGM LTHK ASDLY ITTVGAPILY RVDGEL RAQGE. ALSVADV TALLHAM D D ARQA EFK Q TREAN	69
NTDB id 1162891 ABNR90 RS10885 WP 003704392.1	MFTDENMTAKE EL FAWLRHMN KNK GSDLF VITTHFP PAMK L DGK ITRIT DEPLT AEKCM E I AFS I MSAK QAE EFS STN E CN	80
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEK LLRLM VEKG GSDLF ITAGV PPSMKV NGK ILP V N KTP M SPEMTRET V HGV MNE Q QRREFT ENH E CN	70
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFND LLNLMAKHK ASDLF ITAGVEPS L KINGE ITP VSKTK L DGM I AQL IDS ITT Q KQRQ EFTI E H E CN	70
NTDB id 1307 DR RS10055 WP 010888596.1	MTSG I DIT D I LRL AADKG ASD I I L AAG L PPQ F K L S G D Y DAQGF E P L SAS DTRK L Y M S MNER Q QR I F E E K R E L D	74
NTDB id 1086 NMV RS00245 WP 002218487.1	MQIT D L L AFG AKNK ASDLH L SSG I SPMIRV H GDMRRIN L P E SAE E V GNMV T S V MND H Q R K I Y Q Q N L E V D	70
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIA ELLAFS VKNK SSDLH I SAG MPPMIRVDG DLRKIN L P L EHKD VIK I I YD I MND R Q R K E Y E E F F E T D	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIA ELLAFS VKNK SSDLH I SAG MPPMIRVDG DLRKIN L P L EHKD VIK I I YD I MND R Q R K E Y E E F F E T D	70
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDIT ELLAFS AKQG ASDLH L SAG L PPMIRVDG D VRRIN L P L EHKD QV H A L I YD I MND K Q R K D F E E F L E T D	70
NTDB id 1202 PSJM300 01600 AFN76400.1	MDIT ELLAFS AKQG ASDLH L SSG L PPMIRVDG D VRRIN L P A M D H K Q V H A L I YD I MND K Q R K D F E E F L E T D	70
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDIT ELLAFS VQNR ASDLH L SAG I PPMIRVDG E VRRIN L P A M D H S E V H N L I YD I MND K Q R R D Y E E K L E T D	70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDIT ELLAFS VKNK ASDLH L SAG MPPMIRVDG E VRRIN L P A L EHKD V H R L V YD I MND K Q R R D Y E E K L E T D	70
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDIT ELLAFS VKNK ASDLH L SAG MPPMIRVDG E VRRIN L P A L EHKD V H R L V YD I MND K Q R R D Y E E K L E T D	70
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDIT ELLAFS VKNK ASDLH L SAG MPPMIRVDG E VRRIN L P A L EHKD V H R L V YD I MND K Q R R D Y E E K L E T D	70
consensus	*****!***** *!* ***** !***** *!***** ***** !***** !**	

NTDB id	1177 A1552VC RS01165 WP 000422572.1	F	A	V	V	R	D	.	S	C	R	F	R	V	S	A	F	F	Q	R	E	L	P	.	G	A	V	I	R	R	T	E	T	R	I	P	T	F	E	E	L	K	L	P	E	V	L	Q	N	.	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	T	M	A	A	M	T	G	Y	R	N	Q
NTDB id	1162891 ABNR90 RS10885 WP 003704392.1	F	A	I	S	L	P	D	.	T	S	R	F	R	V	N	A	M	I	Q	R	G	A	T	A	L	V	F	R	A	I	T	S	K	I	P	K	F	S	E	N	L	P	P	A	L	K	D	V	A	L	K	R	G	L	V	I	F	V	G	G	T	G	S	G	K	S	T	S	L	A	S	L	I	D	Y	R	N	E	
NTDB id	1203 PSJM300 01605 AFN76401.1	F	A	I	S	A	R	G	.	I	G	R	F	R	V	S	A	F	Y	Q	R	N	L	A	G	M	V	L	R	R	I	E	T	I	N	I	P	T	I	E	D	L	K	L	P	D	V	L	K	L	A	L	T	K	R	G	L	V	I	F	V	G	A	T	G	T	G	K	S	T	L	A	A	M	T	G	Y	R	N	K
NTDB id	1019 ACIAD RS04205 WP 004922051.1	F	A	I	L	N	R	E	K	N	R	F	R	V	S	A	F	Q	R	D	M	P	G	M	V	I	R	R	I	E	T	K	I	P	S	P	D	I	L	H	L	P	P	I	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	C	T	G	K	S	T	L	A	S	M	I	Q	H	R	N	Q			
NTDB id	1307 DR RS10055 WP 010888596.1	F	S	F	A	L	G	D	.	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	G	V	M	R	L	I	P	T	I	T	V	R	T	A	E	M	G	L	P	Q	T	V	I	D	I	A	N	A	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	S	M	I	D	H	I	N	T
NTDB id	1086 NMV RS00245 WP 002218487.1	F	S	F	E	L	P	N	.	V	A	R	F	R	V	N	A	F	N	I	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E
NTDB id	1283 ACE117W RS02630 WP 010947729.1	F	S	F	E	I	A	N	.	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	
NTDB id	1259 GC085 RS10305 WP 010947729.1	F	S	F	E	I	A	N	.	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	
NTDB id	1194 PAKAF RS01995 WP 003084552.1	F	S	F	E	V	P	G	.	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G	A	V	F	R	T	I	P	S	K	V	L	T	M	E	E	L	G	M	G	E	V	F	K	R	V	S	D	P	R	G	L	V	L	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	D	Y	I	N		
NTDB id	1202 PSJM300 01600 AFN76400.1	F	S	F	E	V	P	G	.	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	G																																																							

NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	HRTG	HIL	T	V	E	D	P	I	E	F	V	H	E	H	K	R	C	I	V	T	Q	R	E	V	G	L	D	T	E	S	Y	E	V	A	L	K	N	S	L	R	Q	A	P	D	M	I	L	G	E	I	R	S	R	E	T	M	E	Y	A	M	T	F	A	E	T	G	H	L	C	M	A	T	L	H		227				
NTDB	id	1162891	ABNR90	RS10885	WP	003704392.1	N	S	F	G	H	I	I	T	E	D	P	I	E	F	V	H	E	H	K	N	C	I	I	T	Q	R	E	V	G	V	D	T	E	N	W	M	A	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	I	R	D	R	E	T	M	D	Y	A	I	A	F	A	E	T	G	H	L	C	M	A	T	L	H		239
NTDB	id	1203	PSJM300	01605	AFN	76401.1	N	S	S	G	H	I	S	I	E	D	P	I	E	F	I	H	Q	H	N	C	I	V	T	Q	R	E	V	G	I	D	T	D	S	F	E	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	V	R	T	R	E	T	M	D	H	A	F	A	E	T	G	H	L	C	L	A	T	L	H		229				
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	H	S	K	G	H	I	I	T	E	D	P	I	E	F	I	H	E	H	A	G	C	I	I	T	Q	R	E	V	G	I	D	T	S	F	E	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	G	E	I	R	S	R	E	V	M	D	Y	A	L	A	F	A	E	T	G	H	L	V	F	A	T	L	H		230		
NTDB	id	1307	DR	RS10055	WP	010888596.1	T	K	K	L	H	I	L	T	E	D	P	I	E	F	M	H	P	N	K	A	S	I	I	N	Q	R	E	V	G	S	D	T	L	S	F	D	D	A	L	R	A	L	R	Q	A	P	D	V	I	L	G	E	M	R	D	P	E	T	I	G	A	A	V	T	A	A	E	T	G	H	L	V	M	G	T	L	H		233	
NTDB	id	1086	NMV	RS00245	WP	002218487.1	T	Q	P	A	H	I	L	T	E	D	P	I	E	F	V	H	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H		229
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	S	R	Y	E	H	I	L	T	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H		229	
NTDB	id	1259	GC085	RS10305	WP	010947729.1	S	R	Y	E	H	I	L	T	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H		229	
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1	T	K	Y	H	H	I	L	T	E	D	P	I	E	F	V	H	E	S	K	K	C	L	V	N	Q	R	E	V	H	R	D	T	L	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	L	V	G	E	M	R	D	L	E</																						

 non conserved
 similar
 $\geq 50\%$ conserved