

NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITTVGAPILYRVDGELRAQGE.ALSVADVTAALHAMDDARQAEFKQTR	69
NTDB id 1169709 ACH8EK RS03255 WP 003704392.1	MFTDENMTAKEELFAWLRHMNKNGSDFLVTITHFPPAMKLDGKITRITDEPLTAEKCMELAFSLMSAKQAEFSSTNECN	80
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGSDFLITAGVPPSMKVNGKILPYNKTPMSPEMTRETIVHGVNNEQQRREFITENHECN	70
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDFLFITAGVEPSLKINGEITPVSKTKLDGMLIAQLIDSITTKQKQRFIEFTECN	70
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDIILAAAGLPPQFKLSGDYDAQGFEP.LASDTRKLYMSNMNERQQRIFEEKRELD	74
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMMRRINLPEMSAEVGNMVTSV.MNDHQRKIYQQNLVD	70
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPLPEHKDVIKI.IYDIMNDRQRKEYEEFFETD	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNKSSDLHISAGMPPMIRVDGDLRKINLPLPEHKDVIKI.IYDIMNDRQRKEYEEFFETD	70
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQASDLHLSAGLPPMIRVDGDVRRINLPLPEHKQVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQASDLHLSAGLPPMIRVDGDVRRINLPA.MDHKQVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPA.MDHSEVHNLIYDIMNDKQRQDYEEKLETD	70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLIYDIMNDKQRQDYEEKLETD	70
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLIYDIMNDKQRQDYEEKLETD	70
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALEHKDVHRLIYDIMNDKQRQDYEEKLETD	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	1169709	ACH8EK	RS03255	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	AFN	76401.1	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	S	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	S	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	I	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								

NTDB id 1177 A1552VC RS01165 WP 000422572.1	HRTGHILTVEDPIEFVHEHKRCIVTQREVGGLDTESYEVALKNSLRQAPDMILGEIRSRRETMETAMTFAETGHLCMATLH	227
NTDB id 1169709 ACH8EK RS03255 WP 003704392.1	NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVILGEIRDRRETMETDYAIAFAETGHLCMATLH	239
NTDB id 1203 PSJM300 01605 AFN76401.1	NSSGHIISIEDPIEFTHQHQNCCIVTQREVGIDTDSFEVALKNTLRQAPDVILGEVTRRETMETDHAFAFAETGHLCLATLH	229
NTDB id 1019 ACIAD RS04205 WP 004922051.1	HSKGHIITIEDPIEFIEHAGCIIITQREVGIDTDSFEIATLKNTLRQAPDVILGEIRSRRETMETDYALAFATGHLVFRATLH	230
NTDB id 1307 DR RS10055 WP 010888596.1	TKKLHILTVEDPIEFMHPNKAIIINQREVGSDTSLFDDALRAALRQAPDVILVGEMRDYETIKAAAVTAAETGHLVMGTLH	233
NTDB id 1086 NMV RS00245 WP 002218487.1	TQPAHILTVEDPIEFVHQSKKSLINQRELVHQTLSFANALRSALREDPDVILVGEMRDPETIGLALTAETGHLVFGTLH	229
NTDB id 1283 ACE17W RS02630 WP 010947729.1	SRYEHLTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGLRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1259 GC085 RS10305 WP 010947729.1	SRYEHLTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGLRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TKYHHILTVEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1202 PSJM300 01600 AFN76400.1	TKYHHILTVEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1020 ACIAD RS04210 WP 011182164.1	HRYPHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	NRYPHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1060 ABD1 RS04380 WP 000355489.1	NRYPHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
NTDB id 1040 HON27 RS13360 WP 000355489.1	NRYPHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEMRDLETIRLATAAETGHLVFGTLH	229
consensus	*** ! ! * * * * ! ! ! ! ! * * * * * * * * ! ! * * * * ! * ! ! * * * * ! * * * ! * * * ! ! ! ! * * * * ! !	

 non conserved
 similar
 $\geq 50\%$ conserved