

NTDB id 1169 A1552VC RS11075 WP 000648511.1	MKATQTLPLKNYRWKGINSNGKK.VSGQMLAISEIEVRDKLKDQHTQIKKLKKGVSLLAR.LTHRVS	67
NTDB id 1402 DSB67 RS12670 WP 010643257.1	MKTIAPQLKNYRWKGINSNGKK.TSGNVLAMTEIEVRERLDAQHIKIKKLKKGSIISFITK.ISHRVKG	66
NTDB id 1112 NGFG RS09215 WP 003689811.1	MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSFAFTEEEARKKLAKRGIRPLQITRVK.....TSSKRKITQ	69
NTDB id 1113 AAA85695.1 219..1451()	MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSFAFTEEEARKKLAKRGIRPLQITRVK.....TSSKRKITQ	69
NTDB id 1198 PSJM300 03950 AFN76868.1	MAQKAIKNSVFTWEGIDRQGAQ.IKGELSGVSPALVKAQLRKQGINPQKVRKKSISIFS..AGKKIKP	65
NTDB id 1016 ACIAD RS01680 WP 004920476.1	MAAKKTQVMPVFAYEGVDRKGVIK.LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLLKKKVKP	68
NTDB id 1059 ABD1 RS01610 WP 000279215.1	MAVKKAQMMPTFAYEGVDRKGVIK.IKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEGLFKKKVTT	68
NTDB id 1102229 Q9281 RS07740 WP 011408067.1	MSVARSAIKKQPVDRNTSMQLTFIWEGADKRGV.KMKGQQTARNANMLRAELRRQGIVPSMVKKQPKPLFGG.AGKKITP	78
NTDB id 1252 GC085 RS07730 WP 011213805.1	MDKNSPPLTFHYQGINKAQKK.MEGDIQARSLAIAKADLRKQGVITNVKVVKKRKPLFDR.KNKKITQ	66
consensus	* * * * *	

NTDB id	1169	A1552VC	RS11075	WP	000648511.1	KDITILTRQLATMTTGVPIVQALKLVGDNRKAEMKKSILAQTITKSVEAGTPLSKAMRTASAHFDTLVYDLVETGEMSGN	147
NTDB id	1402	DSB67	RS12670	WP	010643257.1	KDITIFTRQIATMTMTGVPIVQALKLVSENHKKAEKMSILMSVTRAVEAGTPMSKAMRTASTHFDPPLYTDLIATGEQSGN	146
NTDB id	1112	NGFG	RS09215	WP	003689811.1	EDITVFTRQLSTMIKAGLPLMQAFEIVARGHGNNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGV	149
NTDB id	1113	AAA85695.1	219..1451()			EDITVFTRQLSTMINAGLPLMQAFEIVARGHGNNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGV	149
NTDB id	1198	PJM300	03950	AFN	76868.1	MDIALFTRQMATTMMKAGVPLLQSFDIICEGGFNDPNMRKLVDLDLKQEVAAGNSFASLRKKPKPYFDDLYCNLVDSGEQSGS	145
NTDB id	1016	ACIAD	RS01680	WP	004920476.1	LDAIAIFTRQLATMMKAGVPLVQAFAEIVAEGLENPAMRDVVLLGKNVEVEGGNTIFAGALRKYPQYFDNLFCSLIESGEQSGS	148
NTDB id	1059	ABD1	RS01610	WP	000279215.1	LDITIFTRQLATMMKAGVPLVQCFFEIVAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNLFCSLVESGEQSGA	148
NTDB id	1102229	Q9281	RS07740	WP	011408067.1	KEIAFFSRQMATTMMKSGVPIVSSLEIICEGHKNPMMKMVGQIRTDIIEGSSLYESISKHPVQFDELYRNLVRAGEGAGV	158
NTDB id	1252	GCO85	RS07730	WP	011213805.1	ADITVFSRLATMTIESGIPLVQAFDIVAKGQSNKRKLKDIIETIKHDIIETGLTLAEISLIKHPLYFNELFCNLVDAGEKSGS	146
consensus						*!*****!!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

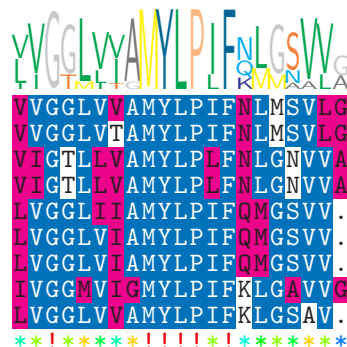
NTDB id 1169	A1552VC RS11075 WP 000648511.1	LPEVFERLATYREKSEQLRAKVIKALIYPSMVVLVALGVSYLMLTMVVIPEFESMFKGFGAELPWFTQQVVLKLSHWVQAYS	227
NTDB id 1402	DSB67 RS12670 WP 010643257.1	LSQVFERLATYREKSEQLRAKVIKALIYPAMVVLVALGVSYLMLTRVVIPEFEKMFMTGFGADLPFTQMVNLNSAWTQNWG	226
NTDB id 1112	NGFG RS09215 WP 003689811.1	LESLLDKLATYKEKTQAIRKKVKTALTYPVSVIAVAIGLVFVMMIFVLPAFKEVYANMGAELPPLTQTVMDSDFVSYG	229
NTDB id 1113	AAA85695.1 219..1451()	LESLLDKLATYKEKTQAIRKKVKTALTYPVSVIAVAIGLVFVMMIFVLPAFKEVYANMGAELPALTQTVMDSDFVSYG	229
NTDB id 1198	PSJM300 03950 AFN76868.1	LETILLDRVATYKEKTEALKKIKKAMNYPVIAVVLVAIVITVITILLIKVVPQFQDVANFGAELPAFTLMVIGLSEALQAWW	225
NTDB id 1016	ACIAD RS01680 WP 004920476.1	LETIMLDRVAITYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPFTQLVNNMSNMWQDYW	228
NTDB id 1059	ABD1 RS01610 WP 000279215.1	LETIMLDRVAITYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFASFGADLPFTQMVNNMSKWMQEYW	228
NTDB id 1102229	Q9281 RS07740 WP 011408067.1	LETVILETVATYKENIEALKQKIKKALFYPAVVVAIVVSAITLLIFVVPQFEVFKSFGAELPAFTQLLVNASRFMVSYW	238
NTDB id 1252	GC085 RS07730 WP 011213805.1	LDIMLDKVATYKEKIEILKKIKKALTYPVIAVMVVALLVITAGLLIYVVPQFESLFKGFAGDLPAMTRAVITMSEFMQAYW	226
consensus		*****	

NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	LWAF	T	A	I	A	A	T	F	G	L	K	A	L	R	K	N	S	F	Q	I	R	L	K	T	S	R	L	G	L	K	F	P	T	I	G	N	V	L	A	K	A	S	T	A	K	F	S	R	T	L	A	T	S	F	A	A	G	I	P	I	L	A	S	L	K	T	T	A	K	T	S	G	N	V	H	F	307				
NTDB	id	1402	DSB67	RS12670	WP	010643257.1	PF	I	G	L	S	F	V	S	L	I	S	G	K	I	M	S	Q	R	S	D	S	F	R	L	L	A	A	R	S	S	L	R	V	P	I	L	G	P	V	L	S	K	A	A	I	A	K	F	S	R	T	L	A	T	S	F	S	A	G	I	P	I	L	T	A	L	K	T	T	S	K	T	S	G	N	M	H	Y	306		
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	WM	V	L	I	A	L	G	F	A	I	Y	G	F	L	K	L	A	R	S	I	Q	I	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	L	S	T	A	G	A	A	G	N	L	I	Y	309					
NTDB	id	1113	AAA85695.1	219..1451()			WM	V	L	I	A	L	G	F	A	I	Y	R	F	L	K	L	A	R	S	I	Q	I	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	L	S	T	A	G	A	A	G	N	L	I	Y	309					
NTDB	id	1198	PJM300	03950	AFN	76868.1	YV	V	I	A	G	F	V	G	A	A	Y	A	F	K	Q	A	H	R	S	E	K	F	R	N	W	F	D	R	L	M	L	K	V	P	V	G	D	I	L	Y	K	S	S	V	A	R	F	A	R	T	L	S	T	T	F	A	A	G	V	P	L	V	D	L	S	V	A	G	A	T	G	N	V	F	305						
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	F	I	L	I	L	V	I	G	A	A	T	A	G	F	L	E	A	R	K	R	S	K	R	F	R	D	Q	L	D	R	L	V	L	R	L	P	I	V	G	D	L	V	Y	K	A	I	T	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	A	S	T	A	G	A	T	N	N	T	V	Y	308
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	F	I	M	I	I	A	I	G	A	V	I	A	A	F	L	E	A	K	R	S	K	K	F	R	D	G	L	D	K	L	A	L	K	L	P	I	F	G	D	L	V	Y	K	A	I	T	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	E	S	T	A	G	A	T	N	N	V	I	Y	308	
NTDB	id	1102229	Q9281	RS07740	WP	011408067.1	W	L	M	L	I	V	T	V	G	S	V	G	F	I	F	A	Y	K	R	S	P	R	M	Q	H	G	L	D	R	L	I	L	K	V	P	V	I	G	Q	I	M	H	N	S	A	I	A	R	F	A	R	T	T	A	V	T	F	K	A	G	V	P	L	V	E	A	L	G	I	V	A	G	A	T	G	N	K	L	Y	318	
NTDB	id	1252	GC085	RS07730	WP	011213805.1	Y	I	I	F	G	A	L	G	C	V	V	S	S	F	F	A	K	N	H	S	L	E	F	A	Q	T	I	D	R	V	M	L	K	L	P	V	I	G	P	I	L	E	K	A	A	I	A	R	F	A	R	T	L	S	I	T	F	A																							

```

NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 1102229 Q9281 RS07740 WP 011408067.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
consensus

```



logo

```

NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 1102229 Q9281 RS07740 WP 011408067.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
consensus

```

- X non conserved
- X similar
- X $\geq 50\%$ conserved