

NTDB id 1029	TT RS02230 WP 011228203.1	MPVYQYKARDRQGR.LVEATTEAEDLRATAARLRLDRGLFVAETKEPGKGQLQAEVRIPALERGPGLK	65
NTDB id 1402	DSB67 RS12670 WP 010643257.1	.MKT.....IAPQLKNYRWKGINSSGKK.TSGNVLAMTEIEVFRERLDAQHIKIKKLKKGSIKFITK....ISHRVKKGK	67
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MKAT.....QTLP.LKNYRWKGINSNCKK.VSCQM LAISEIEVRDKLKDQHIIQIKKLKKGKSVSLLAR.....LTHRVKSK	68
NTDB id 1113	AAA85695.1 219..1451()	.MAKNGGFSLF AKKEKR FIFEGRHASADKL VNGEVS AFTEE EARKKLAKRGIRPLQITRVK.....T...SSKRKITQE	70
NTDB id 1112	NGFG RS09215 WP 003689811.1	.MAKNGGFSLF AKKEKR FIFEGRHASADKL VNGEVS AFTEE EARKKLAKRGIRPLQITRVK.....T...SSKRKITQE	70
NTDB id 1252	GCO85 RS07730 WP 011213805.1	.MDK.....NSPPLTLTPHYQCINKAGQQ.MEGDIQARS LAIAKADLRKQGIVTNKVVKRRKP LFD R.....KNKKITQA	67
NTDB id 1016	ACIAD RS01680 WP 004920476.1	MAAK.....KTQVM PVFAYEGV DRKG I KLGELPARNMALAKVT LRKQG ITIRTIREKRKN IFEG....LLK KKV KPL	69
NTDB id 1059	ABD1 RS01610 WP 000279215.1	MAVK.....KAQM MP TFA YEGV DRKG VK.IKGELPAKNMALAKVT LRKQGVTVRNIREKRKN ILEG....LFK KKV TTL	69
NTDB id 368849	FIU24 RS06625 WP 003161763.1	.MAD.....KALKTSVFVWEGTDKKGT.K.VKGELSSQNPTLVKAQ LRKQGITPVKVRKKGIS LLG.....AGKKIKPM	66
NTDB id 1198	PSJM300 03950 AFN76868.1	.MAQ.....KAIKNSVFTVEGLDRQCAK.IKGELSGVSPALVKAQ LRKQGINPQKVRKKSIS LFS.....AGKKIKPM	66
consensus		*** * **** * ** * *	

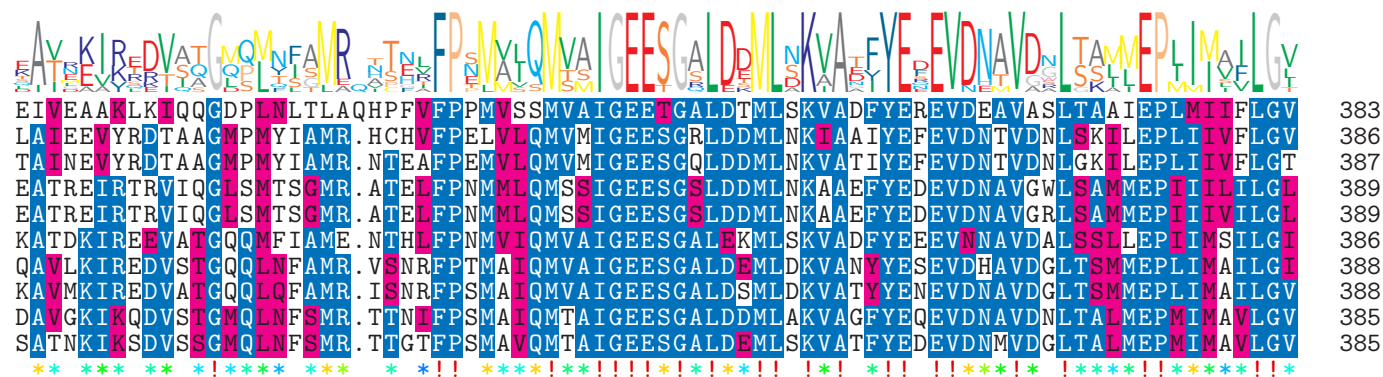
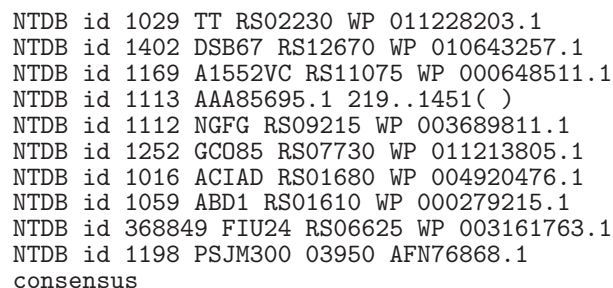
NTDB	id	1029	TT	RS02230	WP	011228203.1	D	L	A	I	F	S	R	Q	L	A	T	M	L	G	A	C	I	T	L	L	Q	A	L	A	I	L	E	R	Q	T	E	N	R	K	F	R	E	I	L	K	Q	V	R	T	D	V	E	G	G	M	A	F	S	E	A	L	S	K	H	.	K	I	F	S	R	L	Y	V	N	L	V	R	A	G	E	T	S	G	G	L	144
NTDB	id	1402	DSB67	RS12670	WP	010643257.1	D	I	T	I	F	T	R	Q	L	A	T	M	L	M	T	G	V	P	I	V	Q	A	L	K	L	V	S	E	N	H	K	K	A	E	M	K	S	I	L	M	S	V	T	R	A	V	E	A	G	T	P	M	S	K	A	M	R	T	A	S	T	H	F	D	P	L	Y	T	D	L	I	A	T	G	E	Q	S	G	N	L	147
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	D	I	T	I	L	T	R	Q	L	A	T	M	L	T	T	G	V	P	I	V	Q	A	L	K	L	V	G	D	N	H	R	K	A	E	M	K	S	I	L	A	Q	I	T	K	S	V	E	A	G	T	P	L	S	K	A	M	R	T	A	S	A	H	F	D	T	L	Y	V	D	L	V	E	T	G	E	M	S	G	N	L	148
NTDB	id	1113	AAA85695.1	219..1451(			D	I	T	V	F	T	R	Q	L	S	T	M	I	N	A	C	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	G	N	P	S	M	T	E	M	L	M	E	I	R	G	Q	V	E	Q	G	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	A	G	E	T	G	G	V	L	150
NTDB	id	1112	NGCF	RS09215	WP	003689811.1	D	I	T	V	F	T	R	Q	L	S	T	M	I	N	A	C	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	G	N	P	S	M	T	E	M	L	M	E	I	R	G	Q	V	E	Q	G	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	A	G	E	T	G	G	V	L	150
NTDB	id	1252	GCO85	RS07730	WP	011213805.1	D	I	T	V	F	S	R	Q	L	A	T	M	L	E	S	C	I	P	L	V	Q	A	F	E	I	V	A	K	Q	S	N	K	R	L	K	D	L	I	E	T	I	K	H	D	I	E	T	G	L	T	L	A	E	S	L	I	K	H	P	L	Y	F	N	E	L	F	C	N	L	V	D	A	G	E	K	S	G	S	L	147	
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	D	L	A	I	F	T	R	Q	L	A	T	M	K	A	G	V	P	L	V	Q	A	F	E	I	V	A	E	G	L	E	N	P	A	M	R	D	V	V	L	G	L	K	N	E	V	E	G	G	N	T	F	A	G	A	L	R	K	Y	P	Q	Y	F	D	N	L	F	C	S	L	I	E	S	G	E	Q	S	G	S	L	149	
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	D	I	T	I	F	T	R	Q	L	A	T	M	K	A	G	V	P	L	V	Q	G	F	E	I	V	A	E	G	L	E	N	P	A	M	R	E	V	V	L	G	I	K	G	E	V	E	G	S	T	F	A	S	A	L	R	K	Y	P	Q	H	F	D	N	L	F	C	S	L	V	E	S	G	E	Q	S	G	A	L	149		
NTDB	id	368849	FIU24	RS06625	WP	003161763.1	D	L	A	I	F	T	R	Q	M	S	T	M	A	A	G	V	P	L	L	Q																																																													

NTDB id 1029	TT RS02230 WP 011228203.1	DLILDRLASFLKEELELRGKIRSAMTYPVIVFVFVAVGVAIFLLTGIVPQFAQILTDLGSELPLLTRFLIAVSDDLRAATL	224
NTDB id 1402	DSB67 RS12670 WP 010643257.1	SQVFERLATYREKSEQLRAKVIKALITYPAMVVVLVALGVSYLMLTRVIPEFEKMFTEGFGADLPFTQMVLNLSAWTQNWGP	227
NTDB id 1169	A1552VC RS11075 WP 000648511.1	PEVFERLATYREKSEQLRAKVIKALIYPSMVVLVALGVSYMLTMVIPEFESMFKGGFAELPWFTQQVLKLSHWVQAYSL	228
NTDB id 1113	AAA85695.1 219..1451()	ESLIDKLATYKEKTGAIRKKVKLTALTYPVSVIAVAIGLVFMVIFVLPAFKEVYANMGGAELPALTTQTVMDSDDFFVSYGW	230
NTDB id 1112	NGCF RS09215 WP 003689811.1	ESLIDKLATYKEKTGAIRKKVKLTALTYPVSVIAVAIGLVFMVIFVLPAFKEVYANMGGAELPLTTQTVMDSDDFFVSYGW	230
NTDB id 1252	GCO85 RS07730 WP 011213805.1	DIMLDKVATYKEKITLIKKKIKKALTYPVAVMVVALVTAGLLIYVVPQFESLFKGFGADLPAMTRAVITMSEFMQAYWY	227
NTDB id 1016	ACIAD RS01680 WP 004920476.1	EIMLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPFTQLVNNMSNWMDYWF	229
NTDB id 1059	ABD1 RS01610 WP 000279215.1	ETMLDRVATYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFPQDLFASFGADLPFTQMNVNMSKWMEYWF	229
NTDB id 368849	FIU24 RS06625 WP 003161763.1	ETLIDRVATYKEKTEALKAKIKKAMTYPVAVIVVAIVSAILLIKVVPQFQSVEFGGAELPAFTQMVINISNVLQEWWL	226
NTDB id 1198	PSJM300 03950 AFN76868.1	ETLIDRVATYKEKTEALKAKIKKAMNYPIAVVLVAVIVTAILLIKVVPQFDVDFVANFGAELPAFTLMVIGLSEALQAWWY	226
consensus		* * * * *	

```

NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 368849 FIU24 RS06625 WP 003161763.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

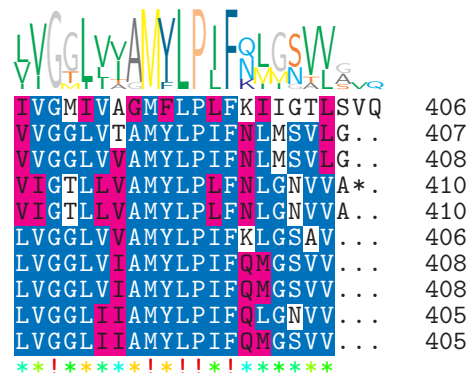
```



```

NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1112 NGCF RS09215 WP 003689811.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 368849 FIU24 RS06625 WP 003161763.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

```



- X non conserved
- X similar
- X > 50% conserved