

NTDB	id	617	LCA	RS06480	WP	011375001.1	.MSTEEKLTTLLKHCAKQRVQDLYFTPTIGGWRLTERRQSDLVTNQELDKPTGTRYINHLKYMGMDISETRRAQTGRSELQLAD	84
NTDB	id	586	KW2	RS10855	WP	011836048.1	..MVQKKKAQELIQQAIEMEASDIYLIASGNLYKIYIRQQLGRITLTJEEVNIQEIGLALLTHFKFLAGMNTGERRRVQLGACWYELEG	83
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	MVEVQELGKLGLRQAVEEQAQDDIYLILPKPAVYKIYLRFGNERHLLIQTPPEQAAGLISHFKFVLAGMNVG EKRR AQLG AC DYA F AD	85
NTDB	id	385	SMU	RS09035	WP	002623435.1	..MVQKLGKRKIIAEAVQNKAQDDIYIIPKKESEYELMRICNERRFDIVYDHFFMANLISHFKFVAGMNVGEKRRSQLGSCDYSYDE	83
NTDB	id	394	FSA28	RS09405	WP	002291652.1	..MVQKLGKRKIIAEAVQNKAQDDIYIIPKKESEYELMRICNERRFDIVYDHFFMANLISHFKFVAGMNVGEKRRSQLGSCDYSYDE	83
NTDB	id	429	SGO	RS09420	WP	012130942.1	..MVQKIAAQAIVRQAKEECAQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y R Y DD	83
NTDB	id	500	SM12261	RS00945	WP	000249545.1	..MVQEIAQEIIIRSARKKGGAQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y E Y DQ	83
NTDB	id	98068	R9C51	RS10170	WP	000249571.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y AY DQ	83
NTDB	id	270	KZH43	RS09265	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y AY DH	83
NTDB	id	229	SPD	RS09895	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y AY DH	83
NTDB	id	195	SPR	RS09430	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y AY DH	83
NTDB	id	160	SP	RS10380	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHM RV GDERCK IGS YDF E KFAA VISH FK FVA GM NV GE KR RS Q L GS CD Y AY DH	83
consensus							* * * * *	83

NTDB	id	617	LCA	RS06480	WP	011375001.1	.	Q	T	I	Y	L	R	L	A	T	V	G	D	F	L	N	R	E	S	L	V	I	R	F	I	Y	P	I	G	A	I	Y	H	C	D	D	Q	I	L	A	Q	L	T	Q	M	S	R	Q	S	G	L	I	L	F	A	G	P	T	G	S	G	K	T	T	S	L	Y	H	L	A	Q	Q	S	M	S	A	K	M	V	V	A	I	E		168	
NTDB	id	586	KW2	RS10855	WP	011836048.1	S	S	A	K	R	L	R	L	S	T	V	G	D	F	E	G	N	E	S	L	V	I	R	L	L	H	D	Q	K	Q	E	L	E	F	W	F	D	.	D	K	.	L	Q	D	F	R	C	K	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	S	L	M	F	D	L	A	R	H	F	S	N	A	Q	V	I	T	I	E		165		
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	G	E	T	A	A	L	R	L	S	T	V	G	D	Y	G	R	E	S	L	V	I	R	L	L	F	D	R	K	R	E	L	K	F	W	F	D	.	G	L	N	A	L	L	P	K	I	G	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	T	L	M	Y	E	L	V	S	R	K	Y	P	D	S	Q	I	T	I	E		169			
NTDB	id	385	SMU	RS09035	WP	002263435.1	G	K	V	I	S	L	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	F	S	G	R	H	D	L	K	F	W	F	N	.	S	M	D	L	L	N	E	I	K	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F	E	T	K	V	I	T	I	E		167			
NTDB	id	394	FSA28	RS09405	WP	002291652.1	G	K	V	I	S	L	R	L	S	S	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	F	S	G	R	H	D	L	K	F	W	F	N	.	S	M	D	L	L	N	E	I	K	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F	E	T	K	V	I	T	I	E		167			
NTDB	id	429	SGO	RS09420	WP	012130942.1	.	K	E	T	S	I	R	L	S	T	V	G	D	Y	R	G	Y	E	S	L	V	I	R	L	L	H	D	E	E	T	E	L	K	F	W	F	T	.	H	F	P	E	L	R	E	K	F	K	D	R	G	L	Y	L	F	S	G	P	V	G	S	G	K	T	T	L	M	H	Q	L	A	Q	L	K	F	K	G	Q	Q	V	M	S	I	E		166
NTDB	id	500	SM12261	RS00945	WP	000249545.1	.	K	M	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F	K	G	Q	Q	V	M	S	I	E		166	
NTDB	id	98068	R9C51	RS10170	WP	000249571.1	.	K	M	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	H	D	E	E	Q	D	L	H	F	W	F	Q	.	D	I	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F	K	G	Q	Q	V	M	S	I	E		166	
NTDB	id	270	KZH43	RS09265	WP	000249564.1	.	K	T	I	A	S	L	R																																																																														

NTDB	id	617	LCA	RS06480	WP	011375001.1	P	T	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	N	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	C	H	L	V	L	S	T	I	H	A	R	S	T	Q	G	V	V	A	R	L	L	D	L	G	I	S	E	L	253
NTDB	id	586	KW2	RS10855	WP	011836048.1	P	V	E	L	I	D	S	D	F	I	Q	L	Q	V	N	D	V	I	G	N	S	Y	D	E	L	I	K	L	S	L	R	H	R	P	D	L	L	I	V	G	E	I	R	D	Q	T	A	R	A	V	I	R	A	S	L	T	G	Y	T	V	F	S	T	I	H	A	S	V	K	G	V	V	A	R	L	L	E	L	G	I	S	D	W	250	
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	H	L	I	K	L	S	L	R	H	R	P	D	V	L	I	G	E	I	R	D	E	T	A	Q	A	V	I	R	A	S	L	T	G	I	R	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	L	E	L	G	V	S	D	254				
NTDB	id	385	SMU	RS09035	WP	002263435.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	M	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	L	E	L	G	T	S	E	252				
NTDB	id	394	FSA28	RS09405	WP	002291652.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	M	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	A	R	L	E	L	G	T	S	E	252				
NTDB	id	429	SG0	RS09420	WP	012130942.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	T	I	G	L	T	Y	E	S	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	I	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E	251	
NTDB	id	500	SM12261	RS00945	WP	000249545.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	I	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E	251	
NTDB	id	98068	R9C51	RS01070	WP	000249571.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	I	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	Y	E	R	L	L	E	L	G	V	S	E	251	
NTDB	id	270	KZH43	RS09265	WP	000249564.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A																																																																				

logo

NTDB id 617 LCA RS06480 WP 011375001.1	QLRACLTGIAVYQSLVTKDDVVQAH...YELLTGSDYFSKKE.....GGCDV.....	296
NTDB id 586 KW2 RS10855 WP 011836048.1	ELKNGLEAVVYQRLIAGKGVLDIAKSKFDTWSPKKWNEKIENLYANGHLTATEAEREKISINQASKIDTTDGESFE	326
NTDB id 584 DLJ51 RS00890 WP 019777327.1	ELDNCLAGIAYQRLIGGGGLIDFAQDHFQNHQAECWNEKIDQLLAAGHLTEEEAAAEEKIKD.....	315
NTDB id 385 SMU RS09035 WP 002263435.1	ELQNALRGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIYDLFTAGYITEGEAQAEIEIED.....	313
NTDB id 394 FSA28 RS09405 WP 002291652.1	ELQNALCGIVYQRLIGGGGIIDFAKGDYQNHSAKKWNKQIYDLFTAGYITEGEAQAEIEIED.....	313
NTDB id 429 SGO RS09420 WP 012130942.1	ELKIVLQGGICYQRLIGGGGVIDFASDNYQEHEPTVWNQQIDQLLAAGHIHPEQAEAEKIRNQQAKTSY.....	319
NTDB id 500 SM12261 RS00945 WP 000249545.1	ELAVVLQGVCYQRLIGGGGIVDFANKDYQEHQSTSWNAQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 98068 R9C51 RS10170 WP 000249571.1	ELAVVLQGVCYQRLIGGGGIVDFANRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 270 KZH43 RS09265 WP 000249564.1	ELAVVLQGVCYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 229 SPD RS09895 WP 000249564.1	ELAVVLQGVCYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 195 SPR RS09430 WP 000249564.1	ELAVVLQGVCYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
NTDB id 160 SP RS10380 WP 000249564.1	ELAVVLQGVCYQRLIGGGGIVDFASRDYQEHQAAKWNEQIDQLLKDGHITSLQAETEKISYS.....	313
consensus	*! **!*****!!******* ** ** ** **	

- ⓧ non conserved
- ✖ similar
- ⓧ ≥ 50% conserved