

NTDB id 1250 GC085 RS13065 WP 027219989.1	..MNNLQLPLLALNRMKRIGP....RIVLKLQKRWPDNLMFQLSSVDIEEAGLPSWLAQTIKNFDPDFIKTDLNLWSSSENHHI	78
NTDB id 599 KW2 RS05940 WP 021037268.1	.MITNFD....LFRWKKAGMTNLGVNKLKFFRKYDRKISLRQM..GQVAQVKSIPNFIEQYKNQDVKKLRADYKKFS.....S	72
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNPAVFMERYFQIDDAHLEKEFKKIP.....S	73
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP.....S	73
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP.....S	73
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP.....S	73
NTDB id 157 SP RS06205 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP.....S	73
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNYE....IYKLKKSGLTNQQVLAIVLEYGENVDQELLGDI..AETISGCRNPAVFMERYFQIDDAHLEKEFQKFP.....S	73
NTDB id 23452 M6 RS04460 WP 011184519.1	..MNHFE....LYKLKKAAGLTNKNILNILDYQEHQEKSLSLRDM..AVVSGCKHPSHFTEAYKQEDIQKLMFEKQFP.....S	71
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFF....LFLKKKAGLTNKNILNIIDYERTQKSLSLRDM..AVVSKNKKPLFMERYKNLDKALRKEFNRF.....S	71
consensus	*****!!***** *****!!*****	*

NTDB	id	1250	GC085	RS13065	WP	027219989.1	L	T	W	D	S	P	Y	P	A	L	L	K	E	I	A	D	P	P	F	I	L	Y	A	K	G	E	L	S	A	L	T	Q	P	S	L	A	T	V	G	S	R	N	A	S	V	T	G	N	E	N	A	R	A	F	S	R	E	I	S	R	H	G	V	S	I	V	S	G	L	A	L	G	I	D	A	H	A	H	L	G	C	L	E	G		163	
NTDB	id	599	KW2	RS05940	WP	021037268.1	F	S	I	L	D	D	L	Y	P	E	R	L	R	E	I	Y	N	P	P	V	L	I	F	Y	Q	G	N	I	D	L	L	K	N	P	K	L	A	F	V	G	S	R	L	A	G	Q	S	G	I	K	S	V	Q	K	I	V	T	E	L	N	Q		S	F	T	I	V	S	G	L	A	K	G	I	D	T	A	S	H	L	S	A	I	K	T		156
NTDB	id	525	SMSK321	RS06295	WP	000705298.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	S	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157	
NTDB	id	267	KZH43	RS05590	WP	000705306.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	V	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157
NTDB	id	226	SPD	RS05990	WP	000705306.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	V	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157
NTDB	id	192	SPR	RS05715	WP	000705306.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	V	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157
NTDB	id	157	SP	RS06205	WP	000705306.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	V	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157
NTDB	id	497	SM12261	RS05565	WP	000705318.1	F	S	I	L	D	D	C	Y	P	W	D	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	V	I	Q	G	L	E	N		E	L	V	I	V	S	G	L	A	K	G	I	D	T	A	A	H	M	A	A	L	Q	N		157
NTDB																																																																																													

NTDB id	1250	GC085	RS13065	WP	027219989.1	G	G	K	T	I	A	V	L	G	T	I	D	C	I	Y	P	R	R	H	L	K	L	A	E	Q	I	T	E	N	G	L	L	S	E	F	P	L	K	S	P	T	A	G	H	F	L	R	N	R	I	S	G	L	S	L	C	L	V	I	E	A	I	K	S	G	S	L	I	T	A	R	M	A	L	E	Q	N	R							
NTDB id	599	KW2	RS05940	WP	021037268.1	K	T	P	T	I	A	V	I	G	T	G	L	D	I	F	Y	P	L	E	N	R	K	I	Q	E	Y	L	A	K	Y	Q	L	V	L	S	E	Y	S	L	G	K	P	L	K	Y	H	F	P	E	R	N	R	I	I	A	G	L	S	R	G	V	V	V	E	A	K	L	R	S	G	S	L	I	T	C	E	R	A	L	E	E	G	R		
NTDB id	525	SMSK321	RS06295	WP	000705298.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	S	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	267	KZH43	RS05590	WP	000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	226	SPD	RS05990	WP	000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	192	SPR	RS05715	WP	000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	157	SP	RS06205	WP	000705306.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	497	SM12261	RS05565	WP	000705318.1	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	V	A	E	A	K	M	R	S	G	S	L	I	T	C	E	R	A	M	E	E	G	R
NTDB id	23452	M6	RS04460	WP	011184519.1	G	G	Q	T	I	A	I	I	G	T	G	L	D	R	F	Y	P	K	E	N	R	E	L	Q	T</																																																												

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NTDB id 1250 GC085 RS13065 WP 027219989.1	DVLAIPGSIHNP	LARGCHYLL	QQGAKLVT	SVADVL	DELKIE	HHQFTSN	KPIFSLAS	GKENLV	KFIGFETTT	IDQIIDR	SGYGM	EQ	333
NTDB id 599 KW2 RS05940 WP 021037268.1	DIFAIPGN	IADGTS	DGCNHL	IQGAKLV	YQAQD	ILEEYLYN							282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 267 KZH43 RS05590 WP 000705306.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 226 SPD RS05990 WP 000705306.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 192 SPR RS05715 WP 000705306.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 157 SP RS06205 WP 000705306.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 497 SM12261 RS05565 WP 000705318.1	DVFAIPGS	ILDGLSDG	CHHLIQ	EGAKLVT	SGQDVLA	AEFEF							282
NTDB id 23452 M6 RS04460 WP 011184519.1	DIFAVPGN	ILDGKSE	GC	LQLIKE	GATCVT	SGMYIL	SEY						278
NTDB id 407 SMU RS04605 WP 002262865.1	DVFVVPGN	ILDGQSE	GCHHLIQ	EGAKCIT	SGFDIL	NEFN							280
consensus	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	361
NTDB id 599 KW2 RS05940 WP 021037268.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 226 SPD RS05990 WP 000705306.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 192 SPR RS05715 WP 000705306.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 157 SP RS06205 WP 000705306.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	282
NTDB id 23452 M6 RS04460 WP 011184519.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	278
NTDB id 407 SMU RS04605 WP 002262865.1	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	280
consensus	VTSGLA	ELEL	KGAV	I	AV	PGGY	I	R	C	E	Y	E	R	

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