

NTDB id 1250 GC085 RS13065 WP 027219989.1	MNNLQPLLA LNRMKRI IGPR.... TVLKLQKRWPD L NLMFQLSS V DL EEAGLPS WLAQTIK NFD PDF I	63
NTDB id 114 BSU 16110 NP 389493.1	MDQAAVCLTICRINQL LS PS LILK WWW KAD PSMSLTSPVL QT VTTR..... DQ IK A .. AAL K... NEI E EQ FYPK L PRV L A	68
NTDB id 599 KW2 RS05940 WP 021037268.1	 MIT N F D L FR W KK AG MT N LG V N K L L K F FRKY D R K IS L R Q M G Q V .. A Q V K S IP N F I E Q Y.. K N Q D V K K L	63
NTDB id 525 SMSK321 RS06295 WP 000705298.1	 M K I T N Y E I Y K L K K S G L T N Q Q I L K V L E Y G E N V D Q E L L L G D I A I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 267 KZH43 RS05590 WP 000705306.1	 M K I T N Y E I Y K L K K S G L T N Q Q I L K V L E Y G E N V D Q E L L L G D I A I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 226 SPD RS05990 WP 000705306.1	 M K I T N Y E I Y K L K K S G L T N Q Q I L K V L E Y G E N V D Q E L L L G D I A I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 192 SPR RS05715 WP 000705306.1	 M K I T N Y E I Y K L K K S G L T N Q Q I L K V L E Y G E N V D Q E L L L G D I A I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 157 SP RS06205 WP 000705306.1	 M K I T N Y E I Y K L K K S G L T N Q Q I L K V L E Y G E N V D Q E L L L G D I A I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 497 SM12261 RS05565 WP 000705318.1	 M K I T N Y E I Y K L K K S G L T N Q Q V L A V L E Y G E N V D Q E L L G D I A E I .. S G C R N P A V F M E R Y .. F Q I D D A H L	64
NTDB id 298261 A7J09 RS06320 WP 002936492.1	 M N N F E L F K W KK A GL T N L N V N K V L A Y Q E K H G K K L T L R N V A I V .. S E C K N P V L F M E N Y.. K N L D T K A C	62
NTDB id 407 SMU RS04605 WP 002262865.1	 M D N F Q L F K L K K A GL T N L N I L N I D Y E E R T Q K S L S R D M A V .. S K N K P L I F M E H Y .. K N L D S K A L	62
consensus	*****	

[illegible]

NTDB	id	1250	GC085	RS13065	WP	027219989.1	SIVSGLALGIDAH	AHLG	CL	EGG	KTI	AV	L	GT	G	ID	CI	Y	PR	R	H	L	K	L	A	E	Q	I	T	E	N	G	L	L	S	E	F	P	L	K	S	P	I	A	G	H	F	L	R	N	R	I	S	G	L	S		222																					
NTDB	id	114	BSU	16110	NP	389493.1	VIVSGLAS	GID	G	M	S	H	A	A	S	I	K	A	K	G	R	T	I	G	V	I	A	G	G	F	Q	H	I	Y	P	R	E	N	L	Q	L	A	D	H	M	A	K	H	I	L	L	S	E	H	P	P	E	T	K	P	Q	K	W	H	F	M	R	N	R	I	S	G	L	S		222			
NTDB	id	599	KW2	RS05940	WP	021037268.1	TIVSGLAK	GID	T	A	S	H	L	S	A	I	K	T	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	E	K	P	L	K	Y	H	F	P	E	R	N	R	I	I	A	G	L	S		215
NTDB	id	525	SMSK321	RS06295	WP	000705298.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	267	KZH43	RS05590	WP	000705306.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	226	SPD	RS05990	WP	000705306.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	192	SPR	RS05715	WP	000705306.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	157	SP	RS06205	WP	000705306.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	497	SM12261	RS05565	WP	000705318.1	VIVSGLAK	GID	T	A	A	H	M	A	A	L	Q	N	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		216
NTDB	id	298261	A7J09	RS06320	WP	002936492.1	VIVSGLA	R	G	I	D	T	A	A	H	I	A	S	L	K	N	G	G	Q	T	I	A	V	I																																																		

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NTDB id 1250 GC085 RS13065 WP 027219989.1	LCILVIEAAIKSGSLITARMALEQN	NRDVLAI	PGSIH	NPL	ARGCHYLL	QQGAKL	VT	SVADVL	DELKIEHH	QFTSNKPI	FSL	302
NTDB id 114 BSU 16110 NP 389493.1	EGVIVV	QGKEK	SGSLITAYQALE	QGREVF	AVPGS	LFD	PPYAGG	PIKLI	QQGAKA	IWSAED	IFEE	297
NTDB id 599 KW2 RS05940 WP 021037268.1	RGVVV	VEAKLR	SGSLITCERALE	EGRDIFA	IPGNIADGT	SDGCNH	LI	QQGAKLV	YQAQD	ILEEY	LYN	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 267 KZH43 RS05590 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 226 SPD RS05990 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 192 SPR RS05715 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 157 SP RS06205 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 497 SM12261 RS05565 WP 000705318.1	RGVIVAEAKMRSGSLITCERAMEEGRD	VFAIPGS	SILDGLSDGCHHLIQEGAKL	VTSGQD	VLA	AEFEF						282
NTDB id 298261 A7J09 RS06320 WP 002936492.1	EGLVV	CEAKMRSGSLITCERALEEGR	EVY	AIPGSI	MDGK	SDGCHHLIQEGAK	CVT	SGLD	ITISEY	Q		280
NTDB id 407 SMU RS04605 WP 002262865.1	QGV	MVAEAKIR	SGSLITCERAMEEGRD	VFV	VPGN	ILDGQ	SEGCHHLIQEGAK	CIT	SGFD	ILNEF	NF	280
consensus	*****!*****!!	*****!*	*****!*	*****!*	*****!*	*****!*	*****!*	*****!*	*****!*	*****!*	*****!*	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	361
NTDB id 114 BSU 16110 NP 389493.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	297
NTDB id 599 KW2 RS05940 WP 021037268.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 226 SPD RS05990 WP 000705306.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 192 SPR RS05715 WP 000705306.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 157 SP RS06205 WP 000705306.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	282
NTDB id 298261 A7J09 RS06320 WP 002936492.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	280
NTDB id 407 SMU RS04605 WP 002262865.1	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	280
consensus	ASGKENLVKFI	GFETTTIDQI	IDRSGY	GMEQVTSGLAELELKGAV	IAVPGGYIR	CEYER	

- X

 non conserved
- X

 similar
- X

 ≥ 50% conserved