

NTDB id 114	BSU 16110 NP 389493.1	..MDQAAVCLTICRINQL....LSPSL L K V W K A D P S M S L.....TSFVL QTVTRD Q I K A A A L K N E I E Q F Y P K	62
NTDB id 1250	GCO85 RS13065 WP 027219989.1	..MNNLQPLLA LNRMK RIG.....PRTVLKLQRWPD LNFQJSSVDLEEAGLP SWLAQTIKNFDPDFIKTDLNWL...	70
NTDB id 599	KW2 RS05940 WP 021037268.1	.MTTNFDI....FRWKKA G MTNLGVNK LK LKF FRKYDRKISLRQM...GQVAQVKSIPNFIEQYKNQDVKKLRADYKFF...	70
NTDB id 525	SMSK321 RS06295 WP 000705298.1	MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLGD I..ADISGCRNP AVFMERYFQIDDAHLEKEFKKI...	71
NTDB id 267	KZH43 RS05590 WP 000705306.1	MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLGD I..ADISGCRNP AVFMERYFQIDDAHLSKEFQKF...	71
NTDB id 226	SPD RS05990 WP 000705306.1	MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLGD I..ADISGCRNP AVFMERYFQIDDAHLSKEFQKF...	71
NTDB id 192	SPR RS05715 WP 000705306.1	MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLGD I..ADISGCRNP AVFMERYFQIDDAHLSKEFQKF...	71
NTDB id 157	SP RS06205 WP 000705306.1	MKITNYEI....YKLKKSGLTNQQILKVLEYGENVDQELLGD I..ADISGCRNP AVFMERYFQIDDAHLSKEFQKF...	71
NTDB id 497	SM12261 RS05565 WP 000705318.1	MKITNYEI....YKLKKSGLTNQQILAVLEYGENVDQELLGD I..AEISGCRNP AVFMERYFQIDDAHLEKEFQKF...	71
NTDB id 49631	SSUJS14 RS04905 WP 012775129.1	..MNNFEL....FKWKKAGLTNLNVNKVLAYQEKGKKLT LRNV...AVVSECKNPVLFMENYKNLDTKACREEFNKY...	69
NTDB id 407	SMU RS04605 WP 002262865.1	..MDNFQI....FKLKKAGLTNLNI LNIIIDYEERTQSLSLRDM...AVVSKNKKPLIFMEHYKNLDSKALRKEFNRF...	69
consensus		* * * * *	

NTDB id 114	BSU 16110 NP 389493.1	LPRVLAAYREQGIN	TIP	TSSKQ	Y	P	F	W	L	K	S	I	Y	D	P	P	A	V	L	F	A	K	G	D	M	T	L	S	K	G	R	K	I	G	I	V	G	T	R	N	P	I	A	Y	G	K	Q	V	V	N	H	L	T	K	E	I	C	R	K	G	W	142			
NTDB id 1250	GC085 RS13065 WP 027219989.1	.S.....	SSENHHIL	T	W	D	S	P	Y	P	A	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	I	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	142
NTDB id 599	KW2 RS05940 WP 021037268.1	.S.....	SFSILDD	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	135					
NTDB id 525	SMSK321 RS06295 WP 000705298.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 267	KZH43 RS05590 WP 000705306.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 226	SPD RS05990 WP 000705306.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 192	SPR RS05715 WP 000705306.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 157	SP RS06205 WP 000705306.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 497	SM12261 RS05565 WP 000705318.1	.P.....	SFSILDD	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	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	Q	G	L	E	N	.E	136							
NTDB id 49631	SSUJS14 RS04905 WP 012775129.1	.P.....	SFSILDD	T	Y	P	L	A	L	K	Q	I	Y	N	P	P	V	L	L	F	Y	Q	G	D	L	E	L	E	K	L	L	A	V	V	G	T	R	N	A	S	K	N	G	I	Q	S	V	Q	K	I	K	E													

NTDB id 114	BSU 16110 NP 389493.1	VIVSGLASGIDGMSHAASIKAKGRTTIGVIAGGFQHIYPRENQLADHMAKHILLSEHPETKPKWHFPMRNRITSGLS	222
NTDB id 1250	GC085 RS13065 WP 027219989.1	SIVSGLALGIDAHHLGCGLEGGGKTIAVLGTCIDCIYPRRHKLAEQITENGLLSEFPLKSPPIAGHFPLRNRITSGLS	222
NTDB id 599	KW2 RS05940 WP 021037268.1	TIVSGLAKGIDTASHLSAIIKTKTPPIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPERNRIIAGLS	215
NTDB id 525	SMSK321 RS06295 WP 000705298.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 267	KZH43 RS05590 WP 000705306.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 226	SPD RS05990 WP 000705306.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 192	SPR RS05715 WP 000705306.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 157	SP RS06205 WP 000705306.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 497	SM12261 RS05565 WP 000705318.1	VIVSGLAKGIDTAAHMAALQNGGKTIIVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLC	216
NTDB id 49631	SSUJS14 RS04905 WP 012775129.1	VIVSGLARGIDTAAHTIASLKNGGQTIIVIGTGLDNIYPKENKDLQTYIGKHHLVLTEYEAGAQPLKYHFPERNRIIAGLV	214
NTDB id 407	SMU RS04605 WP 002262865.1	VIISGLARGIDTAAHLSLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLSEYEAGSQPLKYHFPERNRIIAGLS	214
consensus		*I* S* L* G* I* D* T* A* A* H* M* A* A* L* Q* N* G* G* K* T* I* I* 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*	

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NTDB id 114 BSU 16110 NP 389493.1	EGVIVVQCKEKSGSLITAYQALECGREVFVAVPGSILDPYAGGPIKLIQQGAKAIVSAEDIFEELPERNVQYTEPF.....	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	LCITLVIEAAIKSGSLITARMALCGRDVLAIIPGSIHNPILARGCHYLLQQGAKLVTSVADVDLDELKIEHHQFTSNKPIFSL	302
NTDB id 599 KW2 RS05940 WP 021037268.1	RGVVVVEAKLRSGSLITCERALEEGRDIFAIPCNIAADGTSDCNHLIQQGAKLVYQAQDILBEVLYN.....	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 226 SPD RS05990 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 192 SPR RS05715 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 157 SP RS06205 WP 000705306.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	RGVIVAEAKMRSGSLITCERAMEEGRDVFVFAIPGSILDGLSDGCHHLIQEGAKLVTSQQDVLAEFEF.....	282
NTDB id 49631 SSUJS14 RS04905 WP 012775129.1	EGLVVCEAKMRSGSLITCERALEEGRVYVFAIPGSIMDGKSDGCHHLIQEGAKCVTSCLDITISEYQF.....	280
NTDB id 407 SMU RS04605 WP 002262865.1	QGVVVAEAKIRSGSLITCERAMEEGRDVFVPCNILDGQSEGCHHLIQEGAKCITSGFDILNEFN.....	280
consensus	*****!*****!!!!!!!!*****!*!*****!!*****!!*****!*!*****!*!*****!*****!*****!	

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NTDB id 114 BSU 16110 NP 389493.1	ASCKENLVKFI GFETTTIDQIIDRSGYGMQVTSGLAELELKGAVIAVPGGYIRCEYER	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	ASGKENLVKFIGFETTTIDQIIDRSGYGMQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1		282
NTDB id 525 SMSK321 RS06295 WP 000705298.1		282
NTDB id 267 KZH43 RS05590 WP 000705306.1		282
NTDB id 226 SPD RS05990 WP 000705306.1		282
NTDB id 192 SPR RS05715 WP 000705306.1		282
NTDB id 157 SP RS06205 WP 000705306.1		282
NTDB id 497 SM12261 RS05565 WP 000705318.1		282
NTDB id 49631 SSUJS14 RS04905 WP 012775129.1		280
NTDB id 407 SMU RS04605 WP 002262865.1		280
consensus		

- non conserved
- similar
- ≥ 50% conserved