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NTDB id 1361 HI 0985 AAC22646.1	MNDITYTTLRLMQVPKLG...VGIDKILSNITLN...ELLNYYDDVAFRQMGWGAIQIRRFW.KP	58
NTDB id 114 BSU 16110 NP 389493.1	MDQAAVCLTICRINQLLSPSLLLKWWKADPSMS.....LTSPVLQTVTRDQIKAAALKNEIEQFYPKL	63
NTDB id 626 LCA RS04960 WP 011374694.1	MLTKNQLLKVLHAAACFGTISELR...AAWLSTSHNWAL.....SALETIAQI...ARLPERYWPTF	56
NTDB id 1250 GC085 RS13065 WP 027219989.1	MNNLQPL.LAL.NRMKR...IGPRTVLKLQKRWPDNLNMFQLSSVDLEEAGLPSWLAQTIK.NF	58
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	MITNFDLYRWKK.AGMTN...LGVNKLKFFHRYDKKISLRQMGQ...VAQLKSIPNFIEQYK.NQ	58
NTDB id 599 KW2 RS05940 WP 021037268.1	MITNFDLFRWKK.AGMTN...LGVNKLKFFRKYDRKISLRQMGQ...VAQVKSIPNFIEQYK.NQ	58
NTDB id 407 SMU RS04605 WP 002262865.1	MDNQLFLKLLK.AGLTN...LNILNIIDYEERTQKSLSLRDMAV...VSKNKKPLIFMEHYK.NL	57
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNVEIYKLKK.SGLTN...QQILKVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNVEIYKLKK.SGLTN...QQILKVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNVEIYKLKK.SGLTN...QQILKVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNVEIYKLKK.SGLTN...QQILKVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
NTDB id 157 SP RS06205 WP 000705306.1	MKITNVEIYKLKK.SGLTN...QQILKVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNVEIYKLKK.SGLTN...QQVLAVLEYGENVDQELLGDIAD..ISGCRNPAVFMERYF.QI	59
consensus	* **** * * * * *	

logo

NTDB id 1361 HI 0985 AAC22646.1	DAHLKEFQ KF PSFSILDP YP WDP SEIYDPVLLFYKGNLDLLK PKYAVGSRACSKQAKSVKVIQ	134
NTDB id 114 BSU 16110 NP 389493.1	PR..VLAAYRE.....QGINTIPISCKQYFVLKSIYDPPAVLFAKGMTLLSKGRKIGIVGTRNPTAYGKQVNHILTK	135
NTDB id 626 LCA RS04960 WP 011374694.1	QASFQSTTLRQCIDHEVRTTYLTILDKDYPQRLLLETYLPVLLFYRGDIRLLK.QPCLAVVGARQATHYSKQSLLEQLLQ	135
NTDB id 1250 GC085 RS13065 WP 027219989.1	DPDFIKTDLN..WLSSSENHHILTWDSPPYPALLKETADPPFIFYAKGELSALT.QPSLATVGSRNASVTGNENARAFSR	135
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	DVSKLREEYK..IY.....PSFSILDEIYPERLKEIYNPPVLLFYQGDIRLLK.TPKLAFVGSRQASSQGIKAVQKIVT	129
NTDB id 599 KW2 RS05940 WP 021037268.1	DVKKLRADYK..KF.....SSFSILDLYPERLREIYNPPVLLIFYQGNIDLLK.NPKLAFVGSRLAGQSGIKSVQKIVT	129
NTDB id 407 SMU RS04605 WP 002262865.1	DSKALRKEFN..RF.....PSLSILDKEYPLELKNIYNPPVLLFYQGDLDLA.RPKLAVVGSRNASQMGVAAVKKIIV	128
NTDB id 525 SMSK321 RS06295 WP 000705298.1	DDAHLKEFEK..KI.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRSCKQGAKSVEKIIQ	130
NTDB id 267 KZH43 RS05590 WP 000705306.1	DDAHLKEFEQ..KF.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRACSKQGAKSVEKVIQ	130
NTDB id 226 SPD RS05990 WP 000705306.1	DDAHLKEFEQ..KF.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRACSKQGAKSVEKVIQ	130
NTDB id 192 SPR RS05715 WP 000705306.1	DDAHLKEFEQ..KF.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRACSKQGAKSVEKVIQ	130
NTDB id 157 SP RS06205 WP 000705306.1	DDAHLKEFEQ..KF.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRACSKQGAKSVEKVIQ	130
NTDB id 497 SM12261 RS05565 WP 000705318.1	DDAHLKEFEQ..KF.....PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLK.FPKVAVVGSRACSKQGAKSVEKVIQ	130
consensus	* * *** ** ***** !!* ! ***** !*****!*****!*****!!!! * * *** ****	

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NTDB id 1361 HI 0985 AAC22646.1	GLENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDYFYPKANRQLQDYINHLVLYSEYGPGEQPLKFHFPPAR	214
NTDB id 114 BSU 16110 NP 389493.1	EISLAGFTTISGLALGIDGHCHQAVVNIQQQTIAVLGSGLEQIYPSKHQRLSAQITENNAGLVSEFLPNQAPIAANFPRR	214
NTDB id 626 LCA RS04960 WP 011374694.1	EICRKGWVIVSGLASGIDGMSHAASIKAKGRTICVIAGGFQHIYPRENQLADH.MAKHHILLSEHPPETKPKWHFPMR	212
NTDB id 1250 GC085 RS13065 WP 027219989.1	GLT..ATTITISGLAQADAMAHEVALQRGLAPIGVIGTGINCSPYPQNEHLQQV.VAEKGLLLSEYALGTPARRYQFPAR	212
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	EISRHGVSIVSGLALGIDAHAILGCEGGGKTIAVLGTGIDCIYPRRHLKLAEQ.ITENGLILLSEFPLKSPPIAGHFPLR	214
NTDB id 599 KW2 RS05940 WP 021037268.1	ELN.QNFTIVSGLAKGIDTASHLSAIAKNKIPTIAVIGTGLDIFYPLENRKIQEY.LAKNQLILSEYSVGEKPLRYHFPER	207
NTDB id 407 SMU RS04605 WP 002262865.1	ELN.QSFTIVSGLAKGIDTASHLSAIAKTCTPTIAVIGTGLDIFYPLENRKIQEY.LAKYQLVLSEYSLGEKPLKYHFPER	207
NTDB id 525 SMSK321 RS06295 WP 000705298.1	DLS.KQFVITISGLARGIDTAHAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDY.IAKNHLLVSEYEAQSQPLKYHFPER	206
NTDB id 267 KZH43 RS05590 WP 000705306.1	GLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANRQLQDY.ISNDHLVLSEYGPGEQPLKFHFPPAR	208
NTDB id 226 SPD RS05990 WP 000705306.1	GLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANRQLQDY.ICNDHLVLSEYGPGEQPLKFHFPPAR	208
NTDB id 192 SPR RS05715 WP 000705306.1	GLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANRQLQDY.ICNDHLVLSEYGPGEQPLKFHFPPAR	208
NTDB id 157 SP RS06205 WP 000705306.1	GLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANRQLQDY.ICNDHLVLSEYGPGEQPLKFHFPPAR	208
NTDB id 497 SM12261 RS05565 WP 000705318.1	GLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANRQLQDY.ICNDHLVLSEYGPGEQPLKFHFPPAR	208
consensus	* * *!!!!!!*!*!!!!***** *****!!!!*****!!!!* ***** * * * * *!!!!!!	

logo

NTDB id 1361 HI 0985 AAC22646.1	NRITSGLSVGTLVVEATEKSGSLITARYALEQNRVFAVPGNTIQNKSSQGCHRLIKQGAMLVENAKDILETLYQHSIHSQ	294
NTDB id 114 BSU 16110 NP 389493.1	NRITSGLSEGVIVVQGEKSGSLITAYQALEQGREFVAVPGSLFDPYAGGPIKLIQKGAKAIWSAEDIFEELPERNVQYT	294
NTDB id 626 LCA RS04960 WP 011374694.1	NKIIAGLCHSLIVTEARHKSGSLITANLALCANRVYAIPGRIDQSLSQGCNQLIAAGATPLLDKNILIEELRYFD...	288
NTDB id 1250 GC085 RS13065 WP 027219989.1	NRITSGLSLCLIVIEAAIKSGSLITARMALEQNRDVLAI PGSIHNP LARGCHYLLQKGAKLVTSVADVLDDELKIEHHQFT	294
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	NRITAGLSHGVVVEAKLRSGSLITCERALEEGRDIFAVPGNIADGFSGDCNHLIQKGAKLTYQAQDILEEYLYD.....	282
NTDB id 599 KW2 RS05940 WP 021037268.1	NRITAGLSRQGVVVVEAKLRSGSLITCERALEEGRDIFAI PGNIADGTS DGCNHLIQKGAKLVYQAQDILEEYLYN.....	282
NTDB id 407 SMU RS04605 WP 002262865.1	NRITAGLSQGVVVAEAKLRSGSLITCERAMEEGRDVFVPGNILDGQSEGCHHLLIQEGAKCITSGFDILNEFN.....	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
NTDB id 226 SPD RS05990 WP 000705306.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
NTDB id 192 SPR RS05715 WP 000705306.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
NTDB id 157 SP RS06205 WP 000705306.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	NRITAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVF AIPGSI LDGLSDGCHHLLIQEGAKLVTSGQDVLAEFEF.....	282
consensus	!*!!*!! ***! *****!!!!!!***!*****!*****!*****!*** *****!*****!*** !!***** ***** ** *	

logo

NTDB id 1361 HI 0985 AAC22646.1	TEIDFDQIAVPNYTPPPDPRLVEAPSHPKLYSRIGYTPVSIDDLAEFNLSVDVLLVQLLDLELQDLIISENGLYKRV.	373
NTDB id 114 BSU 16110 NP 389493.1	EPF.....	297
NTDB id 626 LCA RS04960 WP 011374694.1	.....	288
NTDB id 1250 GC085 RS13065 WP 027219989.1	SNK.....PI.....FSLASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCE	358
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	.....	282
NTDB id 599 KW2 RS05940 WP 021037268.1	.....	282
NTDB id 407 SMU RS04605 WP 002262865.1	.....	280
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
consensus		

logo

NTDB id 1361 HI 0985 AAC22646.1	...	373
NTDB id 114 BSU 16110 NP 389493.1	...	297
NTDB id 626 LCA RS04960 WP 011374694.1	...	288
NTDB id 1250 GC085 RS13065 WP 027219989.1	YER	361
NTDB id 996262 LLNCD0184 RS05405 WP 012897825.1	...	282
NTDB id 599 KW2 RS05940 WP 021037268.1	...	282
NTDB id 407 SMU RS04605 WP 002262865.1	...	280
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
consensus		

 non conserved
 similar
 $\geq 50\%$ conserved