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NTDB id 995958 ABC964 RS06245 WP 000593194.1	MIKIFLLKLY...WAHFS TKQIHQFLMAYPNV IKEBGRKKDSYLCWVNREENVLLRKYAFIKLDHNDITKELQKLKV	77
NTDB id 25 SA RS06185 WP 000593194.1	MIKIFLLKLY...WAHFS TKQIHQFLMAYPNV IKEBGRKKDSYLCWVNREENVLLRKYAFIKLDHNDITKELQKLKV	77
NTDB id 40 MW RS06080 WP 000593192.1	MIKIFLLKLY...WAHFS TKQIHQFLMAYPNV IKEBGRKKDSYLCWVNREENVHLLRKYAFIKLDHNDITKELQKLKV	77
NTDB id 525 SMSK321 RS06295 WP 000705298.1	.MKITNYEIYKLLKKSGLTNQQILKV.LEYGENVDQELLL..GDIADISGCRNPAVFMERYF...QIDDAHLSKEFK...KI	71
NTDB id 267 KZH43 RS05590 WP 000705306.1	.MKITNYEIYKLLKKSGLTNQQILKV.LEYGENVDQELLL..GDIADISGCRNPAVFMERYF...QIDDAHLSKEFQ...KF	71
NTDB id 226 SPD RS05990 WP 000705306.1	.MKITNYEIYKLLKKSGLTNQQILKV.LEYGENVDQELLL..GDIADISGCRNPAVFMERYF...QIDDAHLSKEFQ...KF	71
NTDB id 192 SPR RS05715 WP 000705306.1	.MKITNYEIYKLLKKSGLTNQQILKV.LEYGENVDQELLL..GDIADISGCRNPAVFMERYF...QIDDAHLSKEFQ...KF	71
NTDB id 157 SP RS06205 WP 000705306.1	.MKITNYEIYKLLKKSGLTNQQILKV.LEYGENVDQELLL..GDIADISGCRNPAVFMERYF...QIDDAHLSKEFQ...KF	71
consensus	*!*****!*****!!** *!******!*** **********! * *!******!!* *!	

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NTDB id 995958 ABC964 RS06245 WP 000593194.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	157
NTDB id 25 SA RS06185 WP 000593194.1	SYITYMDSEYPVLLKEIYQFPILLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYLTIVSGLAQGADAM	157
NTDB id 40 MW RS06080 WP 000593192.1	SYITYMDSEYPVLLKEIYQFPILLFYKGNIKLINNMHHLAVVGARDSTSYTQQSLEFLLSNDKSKYLTIVSGLAQGADAM	157
NTDB id 525 SMSK321 RS06295 WP 000705298.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	149
NTDB id 267 KZH43 RS05590 WP 000705306.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	149
NTDB id 226 SPD RS05990 WP 000705306.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	149
NTDB id 192 SPR RS05715 WP 000705306.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	149
NTDB id 157 SP RS06205 WP 000705306.1	PSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRA CSKQGA KSVEKVIQGLLENELVIVSGLAKGIDTA	149
consensus	*****!***!!**!*!!!!**!*!!!!!!**!*** ***!!!!*! *****!*!***** *****!*!!!!!!*!*!*	

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NTDB id 995958 ABC964 RS06245 WP 000593194.1	AHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKITEEGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSG	237
NTDB id 25 SA RS06185 WP 000593194.1	AHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKITEEGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSG	237
NTDB id 40 MW RS06080 WP 000593192.1	AHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKITEEGLVISEYPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSG	237
NTDB id 525 SMSK321 RS06295 WP 000705298.1	AHMAALQNGGKTIAVIGTGLDVFYFPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 267 KZH43 RS05590 WP 000705306.1	AHMAALQNGGKTIAVIGTGLDVFYFPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 226 SPD RS05990 WP 000705306.1	AHMAALQNGGKTIAVIGTGLDVFYFPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 192 SPR RS05715 WP 000705306.1	AHMAALQNGGKTIAVIGTGLDVFYFPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
NTDB id 157 SP RS06205 WP 000705306.1	AHMAALQNGGKTIAVIGTGLDVFYFPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSG	229
consensus	!!!!*****!!!!**!******!!!!*****!***! ***!!!!*!*****!*!*****!!!!!!*!*!*****!!!!*!*	

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NTDB id 995958 ABC964 RS06245 WP 000593194.1	SHITIDFALEGNRNVVVLPGSFMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI	290
NTDB id 25 SA RS06185 WP 000593194.1	SHITIDFALEGNRNVVVLPGSFMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI	290
NTDB id 40 MW RS06080 WP 000593192.1	SHITIDFALEGNRNVVVLPGSFMFNPMTKGNLLRIQEGAKVVLNANDIFEDYYI	290
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEEF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEEF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEEF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEEF	282
NTDB id 157 SP RS06205 WP 000705306.1	SLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEEF	282
consensus	!*!*****!*!*!*!******!!!!*****!*****!!!!!!*!*****!*****	

 non conserved
 similar
 $\geq 50\%$ conserved