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NTDB id 40 MW RS06080 WP 000593192.1	MIKIF.LLKLYWAHFSTKQIHQFLMAYPNVIKEEGRKKDSYLC	EWVNREENVHLLR	55
NTDB id 114 BSU 16110 NP 389493.1	..MDQAAVCLTICRINQL.....LSPSLLLKWWKA.....DPSMSLTSPVLQ.....TVT.....		43
NTDB id 1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLAIRNMRKRIIP....RTVLKLRKRPDL.....NLMFQLSS.VDLEEAGLPSWLAQT.....		54
NTDB id 599 KW2 RS05940 WP 021037268.1	..MITNFD.....LFRWKKAGMTNLGVNKKLLKFFRKYDRK.....ISLRQMGQVAQVKISIPNFIEQ.....		54
NTDB id 414736 GU333 RS06695 WP 061774798.1	..MQNFD.....IYRLKKAGMSNLMVYQFLTIVADSQER.....NPLVCLPAFIRQVKMKQSAHFWEK.....		56
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFQ.....LFLKLLKAGLTNLNILNIIDYEERTQKS.....LSLRDMAVVSKNKKPLIFMEH.....		53
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE.....IYKLKKSGLTNQIILKVLEYGENVDQE.....LLLGDIADISGCRNPVAFMER.....		55
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNYE.....IYKLKKSGLTNQQLVAVLEYGENVDQE.....LLLGDIAEISGCRNPVAFMER.....		55
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNYE.....IYKLKKSGLTNQIILKVLEYGENVDQE.....LLLGDIADISGCRNPVAFMER.....		55
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNYE.....IYKLKKSGLTNQIILKVLEYGENVDQE.....LLLGDIADISGCRNPVAFMER.....		55
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNYE.....IYKLKKSGLTNQIILKVLEYGENVDQE.....LLLGDIADISGCRNPVAFMER.....		55
NTDB id 157 SP RS06205 WP 000705306.1	MKITNYE.....IYKLKKSGLTNQIILKVLEYGENVDQE.....LLLGDIADISGCRNPVAFMER.....		55
consensus	*****	*****	

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NTDB id 40 MW RS06080 WP 000593192.1	KYYA	F	I	K	L	D	H	N	D	I	I	K	E	L	Q	K	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.</
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NTDB id 40 MW RS06080 WP 000593192.1	RDSTSYTQQSLEFLLSNDKSKYLTIVSGLAQGADAMAHQIALKYNLPTIAVLAFGHQTHYPKSTLALRNKITEEKGLVISE	201
NTDB id 114 BSU 16110 NP 389493.1	RNPITAYGKQVNVNHLTKEICRKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENQLADHMAKHHILLSE	199
NTDB id 1250 GC085 RS13065 WP 027219989.1	RNASVTGNENARAFSREISRHGVSIVSGLALGIDAHHLGCLGEGGKTIAVLGTGIDCIYPRHLKLAIEQITENGLLSE	199
NTDB id 599 KW2 RS05940 WP 021037268.1	RLAGQSGIKSVQKIVTELN.QSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSE	192
NTDB id 414736 GU333 RS06695 WP 061774798.1	RDSCSQGVASVQKIIKELQ.DRFVIVSGLARGIDTASHIAAMKNGGKTIAVIGTGLDVNYPRENYQLQAYIAKHQLLSE	194
NTDB id 407 SMU RS04605 WP 002262865.1	RNASQMGVAIVKKIIQDLS.KQFVIISGLARGIDTAAHLASLKS GGATIAVIGTGLDVHYPKENRRQLQDYIAKNHLLSE	191
NTDB id 525 SMSK321 RS06295 WP 000705298.1	RSCSKQGAKSVEKIIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSE	193
NTDB id 497 SM12261 RS05565 WP 000705318.1	RACSKQGAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYICNDHLVLSE	193
NTDB id 267 KZH43 RS05590 WP 000705306.1	RACSKQGAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYICNDHLVLSE	193
NTDB id 226 SPD RS05990 WP 000705306.1	RACSKQGAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYICNDHLVLSE	193
NTDB id 192 SPR RS05715 WP 000705306.1	RACSKQGAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYICNDHLVLSE	193
NTDB id 157 SP RS06205 WP 000705306.1	RACSKQGAKSVEKVIQGLE.NELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYICNDHLVLSE	193
consensus	! ** * ***** * * ** ! * ! ! ! ! ! * !	

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NTDB id 40 MW RS06080 WP 000593192.1	YGPGEQPLKEHFPARNRIIAGLSRGVIVAEAKMRSGSLITCERAMEEGRDVFAPGSIIDGLSDGCHHLIQEGAKLVTSG	281
NTDB id 114 BSU 16110 NP 389493.1	YPPHTPIAKYRFPERNRIISGLSKGVLITEAKEQSGSHITIDFALEQNRRNVYVLPGSMFNPMTKGNLLRIQEGAKVVLNA	279
NTDB id 1250 GC085 RS13065 WP 027219989.1	HPPETKPKQKWHFPMRNRIISGLSEGVIIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKATWSA	279
NTDB id 599 KW2 RS05940 WP 021037268.1	FPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIKSGSLITARMALQNRDVLAIIPGSIHNPLARGCHYLLQQGAKLVTSV	272
NTDB id 414736 GU333 RS06695 WP 061774798.1	YSLGEKPLKYHFPERNRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIAADGTSDCGNHLIQQGAKLVYQA	274
NTDB id 407 SMU RS04605 WP 002262865.1	YGPDEKPLKYHFPERNRIIAGLSRGVLVTEAKLRSGSLITCERAMEEGRDVFVPGNITDGVSDGCHHLIQEGAKLTFHG	271
NTDB id 525 SMSK321 RS06295 WP 000705298.1	YEAQSQPLKYHFPERNRIIAGLSQGVVMAEAKIRSGSLITCERAMEEGRDVFVPGNILDGQSEGCHHLIQEGAKCITSG	273
NTDB id 497 SM12261 RS05565 WP 000705318.1	YGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFVPGNILDGSLSDGCHHLIQEGAKLVTSG	273
NTDB id 267 KZH43 RS05590 WP 000705306.1	YGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFVPGNILDGSLSDGCHHLIQEGAKLVTSG	273
NTDB id 226 SPD RS05990 WP 000705306.1	YGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFVPGNILDGSLSDGCHHLIQEGAKLVTSG	273
NTDB id 192 SPR RS05715 WP 000705306.1	YGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFVPGNILDGSLSDGCHHLIQEGAKLVTSG	273
NTDB id 157 SP RS06205 WP 000705306.1	YGPGEQPLKFHFPARNRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFVPGNILDGSLSDGCHHLIQEGAKLVTSG	273
consensus	*****!! !!!!!!! *****!!!!!!*****!! !!!!!!!*****	

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NTDB id 40 MW RS06080 WP 000593192.1	NDIFEDYI.....	290
NTDB id 114 BSU 16110 NP 389493.1	EDIFEELPERNVQYTEPF.....	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	ADVLDLKHIEHHQFTSNKPIFSLASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELLELKGAIVAVPGGYIRCEY	359
NTDB id 599 KW2 RS05940 WP 021037268.1	QDILEEYLYN.....	282
NTDB id 414736 GU333 RS06695 WP 061774798.1	RDILMEYDM.....	283
NTDB id 407 SMU RS04605 WP 002262865.1	FDILNEFN.....	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	QDVLAEFEF.....	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	QDVLAEFEF.....	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	QDVLAEFEF.....	282
NTDB id 226 SPD RS05990 WP 000705306.1	QDVLAEFEF.....	282
NTDB id 192 SPR RS05715 WP 000705306.1	QDVLAEFEF.....	282
NTDB id 157 SP RS06205 WP 000705306.1	QDVLAEFEF.....	282
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NTDB id 40 MW RS06080 WP 000593192.1	..	290
NTDB id 114 BSU 16110 NP 389493.1	..	297
NTDB id 1250 GC085 RS13065 WP 027219989.1	ER	361
NTDB id 599 KW2 RS05940 WP 021037268.1	..	282
NTDB id 414736 GU333 RS06695 WP 061774798.1	..	283
NTDB id 407 SMU RS04605 WP 002262865.1	..	280
NTDB id 525 SMSK321 RS06295 WP 000705298.1	..	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	..	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
consensus		

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved