

NTDB id	1250 GC085 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIG....PRTVLKLQKRPDLNLMFQLSSVDLEEAGLP	SWLAQTIKNFDPDFIKTDLNLWSSS	73				
NTDB id	599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKGAMTNLGVNKLLKFFRKYDRKISLRQM.	GQVAQVK	SIPNFIEQYKNQDVKKLRADYK	KFS..	71		
NTDB id	525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	ADISGCRNP	AVFMERYFQIDDAHLEKEFK	KTP..	72		
NTDB id	267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72		
NTDB id	226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72		
NTDB id	192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72		
NTDB id	157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI.	ADISGCRNP	AVFMERYFQIDDAHL	SKEFQKFP..	72		
NTDB id	497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLA	VLEYGENVDQELLGDI.	A	EISGCRNP	AVFMERYFQIDDAHLEKEFQKFP..	72	
NTDB id	978381 MGAS37674 RS04535 WP 010922314.1	..MNHF.....	LYKLKKA	AGLTNKNILN	TLDYQKHQEKSLSRDM.	AVVSGCKHP	SHFIEAYKQLDIGNLKMEFKQFP..	70	
NTDB id	407 SMU RS04605 WP 002262865.1	..MDNFQ....	LFLKLLKAGLTN	NILN	LIDYEERTQSLSRDM.	AVVSKNK	KPLIFMEHYKNDLSKALRKEFNRF..	70	
consensus		*****	*****!***!	*****	*****	*****	*****	*****	*****

NTDB id	1250 GC085 RS13065 WP 027219989.1	ENHHILTWDSPLYPALKEIADPPFIYAKGELSALTQPSLATIVGSRNA SVTG NENARAFSREISRHGVSIVSGLALGID	153
NTDB id	599 KW2 RS05940 WP 021037268.1	SFSILDDLYPERLREIYNPPVLIIFYQGNIIDLKKNPKLA FVGSR LAGQS GIKSV QKIVTELNQ .SFTIVSGLAKGID	146
NTDB id	525 SMSK321 RS06295 WP 000705298.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSR SCSKQGA KSVEKI IQGLE N.ELVIVSGLAKGID	147
NTDB id	267 KZH43 RS05590 WP 000705306.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSRACSKQGA KSVEKVIQGLE N.ELVIVSGLAKGID	147
NTDB id	226 SPD RS05990 WP 000705306.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSRACSKQGA KSVEKVIQGLE N.ELVIVSGLAKGID	147
NTDB id	192 SPR RS05715 WP 000705306.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSRACSKQGA KSVEKVIQGLE N.ELVIVSGLAKGID	147
NTDB id	157 SP RS06205 WP 000705306.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSRACSKQGA KSVEKVIQGLE N.ELVIVSGLAKGID	147
NTDB id	497 SM12261 RS05565 WP 000705318.1	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF PKVA VVGSRACSKQGA KSVEKVIQGLE N.ELVIVSGLAKGID	147
NTDB id	978381 MGAS37674 RS04535 WP 010922314.1	SISILDKHYPMALKEIYNPPVLLFFQGNLDLLEKPKLATIVGSRRSSDTGVKSVRKILKELGN.RFVIVSGLARIGID	145
NTDB id	407 SMU RS04605 WP 002262865.1	SLSILDKHYPL ELKNIYNPPVLLFFYQGD LDL LARPKLA VVGSRNASQM GVAAVKKKIQDLSK.QFVIIISGLARGID	145
consensus		* * * * *	

NTDB id	1250 GC085 RS13065 WP 027219989.1	AHAHLGCEGGCKTIAVLGTGLDCIYPRRHLKLAEEQITENGLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIK	233
NTDB id	599 KW2 RS05940 WP 021037268.1	TASHLSAIKTCTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPDKYHFPERNRIIAGLSRGVVVEAKLR	226
NTDB id	525 SMSK321 RS06295 WP 000705298.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYISNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	267 KZH43 RS05590 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYGNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	226 SPD RS05990 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYIGNDHVLSEYGPGEQPLKFHYFGPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	192 SPR RS05715 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYGNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	157 SP RS06205 WP 000705306.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYGNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	497 SM12261 RS05565 WP 000705318.1	TAAHMAALQNGGKTIIVIGTGDLVFYPKANRLQDYGNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	978381 MGAS37674 RS04535 WP 010922314.1	TAHMLACLKNQGQTIIIGTGDRFYPKENRELQTFLGKNNHLVLT EYGPGEAALS YHFPERNRIIAGLSRCILVVEAKNR	225
NTDB id	407 SMU RS04605 WP 002262865.1	TAAHLASLKSGGATIAVIGTGDLVHPKENRRRLQDYIAKNNHLLSEYEQAQS QPLKYHFPERNRIIAGLSQGVVMVAEAKIR	225
consensus		* ** * * * *	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	313
NTDB id 599 KW2 RS05940 WP 021037268.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 157 SP RS06205 WP 000705306.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	282
NTDB id 978381 MGAS37674 RS04535 WP 010922314.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	278
NTDB id 407 SMU RS04605 WP 002262865.1	SGSLITCERAMEEGRDVFALPGSILDLGLSDGCHHLIQEGAKLVTSQDVLAEFEF	280
consensus	!!!!!!*****!***!!*****!!*!*****!!*!!*****!!*!!*!!*****!!*!!*!!*	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 226 SPD RS05990 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 192 SPR RS05715 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 157 SP RS06205 WP 000705306.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	282
NTDB id 978381 MGAS37674 RS04535 WP 010922314.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	278
NTDB id 407 SMU RS04605 WP 002262865.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	280
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved