

NTDB id 1250 GCO85 RS13065 WP 027219989.1	..MNNLQPLLA	LNRMKRIIGP....RTVLKLQKRPDLNLMFQLSSV	DLEEAGLPSWLAQTIKNFDPDFIKTDLNLWSSS	73
NTDB id 599 KW2 RS05940 WP 021037268.1	.MITNFD....	LFRWKKAGMTNLGVNKLKLFRRKYDRKISLRQM..	GQVAQVKSIPNFIEQYKNQDVKKLRADYKFFS..	71
NTDB id 525 SMSK321 RS06295 WP 000705298.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMEYFQIDDAHLEKEFKKIP..	72
NTDB id 267 KZH43 RS05590 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMEYFQIDDAHLSKEFKQKFP..	72
NTDB id 226 SPD RS05990 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMEYFQIDDAHLSKEFKQKFP..	72
NTDB id 192 SPR RS05715 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMEYFQIDDAHLSKEFKQKFP..	72
NTDB id 157 SP RS06205 WP 000705306.1	MKITNYE....	IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..	ADISGCRNPAVFMEYFQIDDAHLSKEFKQKFP..	72
NTDB id 497 SM12261 RS05565 WP 000705318.1	MKITNYE....	IYKLKKSGLTNQQVLAIVEYGENVDQELLGDI..	AEISGCRNPAVFMEYFQIDDAHLEKEFKQKFP..	72
NTDB id 1139699 DQM82 RS04770 WP 023611998.1	..MNHFE....	LYKLKKAAGLTNKNILNILDYQEHQEKSLSRDM..	AVVSGCKHPSHFIEAYKQLDIQKLMEFKQFP..	70
NTDB id 407 SMU RS04605 WP 002262865.1	..MDNFF....	LFKLKKAAGLTNKNILNILDYQERTQKSLSRDM..	AVVSKNKKPLIFMEHYKNLDSKALKEFNRF..	70
consensus	*****	*****!*****!*****	*****!*****!*****	

NTDB id	1250 GCO85 RS13065 WP 027219989.1	ENHHILTWDSPLYPALKEIADPPFILIYAKGELSAITQPSLAIVGSRNASVTCNENARAFSREISRHGVSIVSGLALGID	153
NTDB id	599 KW2 RS05940 WP 021037268.1	...SFSILDDLYPERLREIYNPPVLIFYQGNIDLKKNPKLAFVGSRLAGQSIGIKSVQKIVTELNQ.SFTIVSGLAKGID	146
NTDB id	525 SMSK321 RS06295 WP 000705298.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRSCSKQGAKSVEKI IQGLEN.ELVIVSGLAKGID	147
NTDB id	267 KZH43 RS05590 WP 000705306.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRACSKQGAKSVEKVIQGLE.NELVIVSGLAKGID	147
NTDB id	226 SPD RS05990 WP 000705306.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRACSKQGAKSVEKVIQGLE.NELVIVSGLAKGID	147
NTDB id	192 SPR RS05715 WP 000705306.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRACSKQGAKSVEKVIQGLE.NELVIVSGLAKGID	147
NTDB id	157 SP RS06205 WP 000705306.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRACSKQGAKSVEKVIQGLE.NELVIVSGLAKGID	147
NTDB id	497 SM12261 RS05565 WP 000705318.1	...SFSILDDCYPWDLSEIYDAPVLLFYKGNDLLKF PKVAVVGSRACSKQGAKSVEKVIQGLE.NELVIVSGLAKGID	147
NTDB id	1139699 DQM82 RS04770 WP 023611998.1	...TSILDKHYPMALKEIYNPPVLLFFQGNLDLLEKPKLAIVGSRSSDTGVKSVRKTLKELGN.RFVIVSGLARGID	145
NTDB id	407 SMU RS04605 WP 002262865.1	...LSILDKEYPLELKNIYNPPVLLFYQGDLDLLARPKLAVVGSRNASQMGVA AVKKIIQDLSK.QFVIIISGLARGID	145
consensus		*****!!**!*!***!!****!!*****!!*****!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

NTDB id	1250	GCO85	RS13065	WP	027219989.1	AH AHL C L E G GGKTI A V L GTGIDCIYPRRHLKLAEQITENGLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIK	233
NTDB id	599	KW2	RS05940	WP	021037268.1	TASHLSA I KTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLSGEKPLKYHFPERNRIIAGLSRGVVVVVEAKLR	226
NTDB id	525	SMSK321	RS06295	WP	000705298.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	267	KZH43	RS05590	WP	000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYGNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	226	SPD	RS05990	WP	000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYGNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	192	SPR	RS05715	WP	000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYGNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	157	SP	RS06205	WP	000705306.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYGNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	497	SM12261	RS05565	WP	000705318.1	TAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYGNDHLVLSEYGPEEQPLKFHFPARNRIIAGLCRGVIVAEAKMR	227
NTDB id	1139699	DQM82	RS04770	WP	023611998.1	TS AHL ACLKNGQTIAIGTGLDRFYPKENRELQTFLGKNHLVLTEYGPGEALS Y HFPERNRIIAGLSRGILVVEAKNR	225
NTDB id	407	SMU	RS04605	WP	002262865.1	TSAHLASLKSGGATIAVIGTGLDVFHYPKENRRLLQDYIAKNNHLLSEYEASQPLKYHFPERNRIIAGLSQGVMMVAEAKIR	225
consensus						***!!*****!!!!!!!**!*!*****!!!!!!!!!!!!!!*!*****!!!!!!!!!!!!!!*	

```

NTDB id 1250 GCO85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
NTDB id 267 KZH43 RS05590 WP 000705306.1
NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
NTDB id 157 SP RS06205 WP 000705306.1
NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 1139699 DQM82 RS04770 WP 023611998.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

```



```

NTDB id 1250 GCO85 RS13065 WP 027219989.1
NTDB id 599 KW2 RS05940 WP 021037268.1
NTDB id 525 SMSK321 RS06295 WP 000705298.1
NTDB id 267 KZH43 RS05590 WP 000705306.1
NTDB id 226 SPD RS05990 WP 000705306.1
NTDB id 192 SPR RS05715 WP 000705306.1
NTDB id 157 SP RS06205 WP 000705306.1
NTDB id 497 SM12261 RS05565 WP 000705318.1
NTDB id 1139699 DQM82 RS04770 WP 023611998.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

```



- X non conserved
- X similar
- X $\geq 50\%$ conserved