

NTDB id	1250 GC085 RS13065 WP 027219989.1	..MNNLQLPLLA ⁺ NRMK ⁺ RIGP....RTVLKLQKRWPDNL ⁻ MFQ ⁻ LSSVDLEEAGLP ⁻ SWLAQTIKNFDPDFIKTDLNWLSSS	73
NTDB id	599 KW2 RS05940 WP 021037268.1	.MITNFD....LFRWKKGAGMTNLGVNKLLKFRRKYDRKISLRQM..GQVAQVK ⁻ SIPNFIEQYKNQDVKKLRADYKKFS..	71
NTDB id	525 SMSX321 RS06295 WP 000705298.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGGDI..ADISGCRNP ⁻ AVFMERYFQIDDAHLEKEFKK ⁻ TIP..	72
NTDB id	267 KZH43 RS05590 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGGDI..ADISGCRNP ⁻ AVFMERYFQIDDAHLSEKFQKFP..	72
NTDB id	226 SPD RS05990 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGGDI..ADISGCRNP ⁻ AVFMERYFQIDDAHLSEKFQKFP..	72
NTDB id	192 SPR RS05715 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGGDI..ADISGCRNP ⁻ AVFMERYFQIDDAHLSEKFQKFP..	72
NTDB id	157 SP RS06205 WP 000705306.1	MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGGDI..ADISGCRNP ⁻ AVFMERYFQIDDAHLSEKFQKFP..	72
NTDB id	497 SM12261 RS05565 WP 000705318.1	MKITNYE....IYKLKKSGLTNQQVLA ⁻ VLEYGENVDQELLGGDI..AEISGCRNP ⁻ AVFMERYFQIDDAHLEKEFQKFP..	72
NTDB id	1136481 DQL15 RS04280 WP 002989770.1	..MNHF ⁻ E....LYKLKKA ⁻ GLTNKNILNILDYQEHEKSLSLRDM..AVVSGCKHP ⁻ SHFTIAYKQLDIGNLKIEFKQFP..	70
NTDB id	407 SMU RS04605 WP 002262865.1	..MDNFC....LFKLKKA ⁻ GLTNILNIIDYYERTQKSLSLRDM..AVVSKNK ⁻ KPLIFMEHYKNLDSKALRKFNRFPP..	70
consensus		*****!*****!*****!*****!*****!*****!*****!*****!	

NTDB id	1250 GC085 RS13065 WP 027219989.1	ENHHIL	TWDSPLYPALKEIADPPFILYAKGELSAITQPSLATVGSRNA SVTGNENARAFSREISRHGVSVISGLALGID	153
NTDB id	599 KW2 RS05940 WP 021037268.1	....	SFSILDDLPERLREIYNPPVLIFYQGNIIDLKPKLA FVGSRLAGQS GIKSVQKIVTELNQ .SFTIVSGLAKGID	146
NTDB id	525 SMSX321 RS06295 WP 000705298.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRSCSKQGAKSVEKI IQGLEN .ELVIVSGLAKGID	147
NTDB id	267 KZH43 RS05590 WP 000705306.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRACSKQGAKSVEKVIQGLEN .ELVIVSGLAKGID	147
NTDB id	226 SPD RS05990 WP 000705306.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRACSKQA KSVEKVIQGLEN .ELVIVSGLAKGID	147
NTDB id	192 SPR RS05715 WP 000705306.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRACSKQGA KSVEKVIQGLEN .ELVIVSGLAKGID	147
NTDB id	157 SP RS06205 WP 000705306.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRACSKQGA KSVEKVIQGLEN .ELVIVSGLAKGID	147
NTDB id	497 SM12261 RS05565 WP 000705318.1	....	SFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKFPKVAVVGSRACSKQGA KSVEKVIQGLEN .ELVIVSGLAKGID	147
NTDB id	1136481 DQL15 RS04280 WP 002989770.1	....	STSI LDKHYPMALK EIIYNPPVLLFFIQGNLDLLEKPKLATVGSRRSSDTGVKSVRKILKELGN .RFVIVSGLARGID	145
NTDB id	407 SMU RS04605 WP 002262865.1	....	SLSIDLKEYPLELKNIIYNPPVLLFFYQGLDLLARPKLAVVGSRNASQMGMVA AVKKIIQDLSK .QFVIISGLARGID	145
consensus			* * * * *	

NTDB id 1250 GC085 RS13065 WP 027219989.1	AH ¹ AHL ² GL ³ EGGGKTI ⁴ AV ⁵ LG ⁶ TG ⁷ ID ⁸ CIY ⁹ PRHL ¹⁰ KL ¹¹ AE ¹² QIT ¹³ EN ¹⁴ GL ¹⁵ LL ¹⁶ SE ¹⁷ FPLKSP ¹⁸ PI ¹⁹ AGH ²⁰ FP ²¹ LRNR ²² IT ²³ SG ²⁴ LS ²⁵ LC ²⁶ IL ²⁷ VI ²⁸ EAA ²⁹ IK ³⁰	233
NTDB id 599 KW2 RS05940 WP 021037268.1	TASH ¹ LS ² SA ³ IKTK ⁴ TP ⁵ TIAV ⁶ IGT ⁷ GLD ⁸ IF ⁹ YPL ¹⁰ EN ¹¹ RK ¹² IQEY ¹³ LAKY ¹⁴ Q ¹⁵ LV ¹⁶ LSEY ¹⁷ SL ¹⁸ GEK ¹⁹ PLK ²⁰ VH ²¹ FP ²² ERN ²³ RII ²⁴ IAG ²⁵ LS ²⁶ RGV ²⁷ VV ²⁸ VEAK ²⁹ LR ³⁰	226
NTDB id 525 SMSK321 RS06295 WP 000705298.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IS ⁹ NDH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 267 KZH43 RS05590 WP 000705306.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IGN ⁹ DH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 226 SPD RS05990 WP 000705306.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IGN ⁹ DH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 192 SPR RS05715 WP 000705306.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IGN ⁹ DH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 157 SP RS06205 WP 000705306.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IGN ⁹ DH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 497 SM12261 RS05565 WP 000705318.1	TAAHMAALQNGGKTI ¹ AV ² IGT ³ GLD ⁴ VFY ⁵ PKANK ⁶ R ⁷ LQDY ⁸ IGN ⁹ DH ¹⁰ LV ¹¹ LSEY ¹² GPGE ¹³ QPL ¹⁴ KFH ¹⁵ FPARN ¹⁶ RII ¹⁷ IAG ¹⁸ LCRG ¹⁹ VIVAEAK ²⁰ MR ²¹	227
NTDB id 1136481 DQL15 RS04280 WP 002989770.1	TS ¹ AHL ² ACL ³ KN ⁴ GGQ ⁵ TIA ⁶ TIGT ⁷ GLD ⁸ R ⁹ FYP ¹⁰ KEN ¹¹ REL ¹² Q ¹³ TF ¹⁴ LCK ¹⁵ NH ¹⁶ LV ¹⁷ L ¹⁸ TEY ¹⁹ GPGE ²⁰ EAL ²¹ SY ²² HFP ²³ ERN ²⁴ RII ²⁵ IAG ²⁶ LS ²⁷ RG ²⁸ IL ²⁹ VEAK ³⁰ NR ³¹	225
NTDB id 407 SMU RS04605 WP 002262865.1	TAAH ¹ LS ² LK ³ SGCA ⁴ TIAV ⁵ IGT ⁶ GLD ⁷ VH ⁸ YP ⁹ KEN ¹⁰ RRL ¹¹ QDY ¹² IA ¹³ NH ¹⁴ LV ¹⁵ L ¹⁶ LSEY ¹⁷ EA ¹⁸ QS ¹⁹ QPL ²⁰ KV ²¹ HFP ²² ERN ²³ RII ²⁴ IAG ²⁵ LS ²⁶ QGV ²⁷ VAEAK ²⁸ IR ²⁹	225
consensus	*** ¹ *** ² *** ³ *** ⁴ *** ⁵ *** ⁶ *** ⁷ *** ⁸ *** ⁹ *** ¹⁰ *** ¹¹ *** ¹² *** ¹³ *** ¹⁴ *** ¹⁵ *** ¹⁶ *** ¹⁷ *** ¹⁸ *** ¹⁹ *** ²⁰ *** ²¹ *** ²² *** ²³ *** ²⁴ *** ²⁵ *** ²⁶ *** ²⁷ *** ²⁸ *** ²⁹ *** ³⁰ *** ³¹	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	SGSLITCERAMEEGRDVF	313
NTDB id 599 KW2 RS05940 WP 021037268.1	SGSLITCERALEEGRDVF	282
NTDB id 525 SMSK321 RS06295 WP 000705298.1	SGSLITCERAMEEGRDVF	282
NTDB id 267 KZH43 RS05590 WP 000705306.1	SGSLITCERAMEEGRDVF	282
NTDB id 226 SPD RS05990 WP 000705306.1	SGSLITCERAMEEGRDVF	282
NTDB id 192 SPR RS05715 WP 000705306.1	SGSLITCERAMEEGRDVF	282
NTDB id 157 SP RS06205 WP 000705306.1	SGSLITCERAMEEGRDVF	282
NTDB id 497 SM12261 RS05565 WP 000705318.1	SGSLITCERAMEEGRDVF	282
NTDB id 1136481 DQL15 RS04280 WP 002989770.1	SGSLITCERAMEEGRDVF	278
NTDB id 407 SMU RS04605 WP 002262865.1	SGSLITCERAMEEGRDVF	280
consensus	!!!!!!*****!***!*****!!*!*****!!*!!*!!*****!!*!!*!!*	

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NTDB id 1250 GC085 RS13065 WP 027219989.1	GFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER	361
NTDB id 599 KW2 RS05940 WP 021037268.1	.....	282
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
NTDB id 1136481 DQL15 RS04280 WP 002989770.1	.....	278
NTDB id 407 SMU RS04605 WP 002262865.1	.....	280
consensus		

- non conserved
- similar
- ≥ 50% conserved