

NTDB	id	1250	GC085	RS13065	WP	027219989.1	..MNNLQLPLLA	LNRMKHIGP....RTVLKLQKRPDLNL	LMFQLSSSV	DLEEAGLP	SWLAQTIKNFDPDF	IKTDLNWLSSS		73
NTDB	id	599	KW2	RS05940	WP	021037268.1	.MITNFD....	LFRWKKA	GMTNLGVNKLLKF	FRKYDRKISLRQM.	GQVAQVKSIPNFIEQYKNQDVKKLRADY	KKFS..		71
NTDB	id	525	SMSK321	RS06295	WP	000705298.1	MKITNYE.....	IYKLKKSGLTNQQILKVLEYGENVDQELLLGDI..	ADISGCRNP	AVFMERYFQIDDAHLEKEFKKIPI..				72
NTDB	id	267	KZH43	RS05590	WP	000705306.1	MKITNYE.....	IYKLKKSGLTNQQILKVLEYGENVDQELLLGDI..	ADISGCRNP	AVFMERYFQIDDAHLSKEFQKFP..				72
NTDB	id	226	SPD	RS05990	WP	000705306.1	MKITNYE.....	IYKLKKSGLTNQQILKVLEYGENVDQELLLGDI..	ADISGCRNP	AVFMERYFQIDDAHLSKEFQKFP..				72
NTDB	id	192	SPR	RS05715	WP	000705306.1	MKITNYE.....	IYKLKKSGLTNQQILKVLEYGENVDQELLLGDI..	ADISGCRNP	AVFMERYFQIDDAHLSKEFQKFP..				72
NTDB	id	157	SP	RS06205	WP	000705306.1	MKITNYE.....	IYKLKKSGLTNQQILKVLEYGENVDQELLLGDI..	ADISGCRNP	AVFMERYFQIDDAHLSKEFQKFP..				72
NTDB	id	497	SM12261	RS05565	WP	000705318.1	MKITNYE.....	IYKLKKSGLTNQQI	VLA VLEYGENVDQELLLGDI..	A EISGCRNP	AVFMERYFQIDDAHLEKEFQKFP..			72
NTDB	id	326918	EHF40	RS05390	WP	011017772.1	..MNHFE....	LYKLKKA GLTNKNLN	TLDYQEHEKSLSLRDM.	AVVSGCKHP	SHFIEAYKQLDIQKLKMEFKQFP..			70
NTDB	id	407	SMU	RS04605	WP	002262865.1	..MDNFC....	LFKLKKA GLTNLN	LNIIIDYEERTQSLSLRDM.	AVVS	SKNKKPLIFMEHYKNLDSKALRKEFNRF..			70
consensus							* * * * *	***** ! * ? ! *****	*****	*****	*****	***** ! *****	*****	

NTDB	id	1250	GC085	RS13065	WP	027219989.1	ENHHIL	W	D	S	P	Y	P	A	L	K	E	A	D	P	P	F	I	L	Y	A	K	G	E	L	S	A	L	T	Q	P	S	L	A	I	V	G	S	R	N	A	S	V	T	G	N	E	N	A	R	A	F	S	R	E	I	S	R	H	G	V	S	I	V	S	G	L	A	L	G	I	D		153					
NTDB	id	599	KW2	RS05940	WP	021037268.1		S	F	S	I	L	D	D	L	Y	P	E	R	L	R	E	I	Y	N	P	P	V	L	F	Y	Q	G	N	I	D	L	L	K	N	P	K	L	A	F	V	G	S	R	L	A	G	Q	S	G	I	K	S	V	Q	K	I	V	T	E	L	N	Q	.	S	F	T	I	V	S	G	L	A	K	G	I	D		146
NTDB	id	525	SMSK321	RS06295	WP	000705298.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	S	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	267	KZH43	RS05590	WP	000705306.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	226	SPD	RS05990	WP	000705306.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	192	SPR	RS05715	WP	000705306.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	157	SP	RS06205	WP	000705306.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	497	SM12261	RS05565	WP	000705318.1		S	F	S	I	L	D	D	C	Y	P	W	L	S	E	I	Y	D	A	P	V	L	L	F	Y	K	G	N	L	D	L	L	K	F	P	K	V	A	V	V	G	S	R	A	C	S	K	Q	G	A	K	S	V	E	K	I	I	Q	G	L	E	N	.	E	L	V	I	V	S	G	L	A	K	G	I	D		147
NTDB	id	326918	EHF40	RS05390	WP	011017772.1		S	I	S	I	L	D	K	H	Y	P	M	A	L	K	E	I	Y	N	P	P	V	L	L	F	Y	Q	G	N	L	D	L	L	E	K	P	K	L	A	I	V	G	S	R	R	S	S	D	T	G	V	K	S	V	R	K	I	L	K	E	L																	

NTDB	id	1250	GC085	RS13065	WP	027219989.1	AH	AHL	G	C	L	E	G	G	K	T	I	A	V	L	G	T	I	D	C	I	Y	P	R	R	H	L	K	L	A	E	Q	I	T	E	N	G	L	L	S	E	F	P	L	K	S	P	I	A	G	H	F	P	L	R	N	R	I	I	S	G	L	S	L	C	I	L	V	I	E	A	A	I	K		233						
NTDB	id	599	KW2	RS05940	WP	021037268.1	T	A	S	H	L	S	A	I	K	T	K	T	P	T	I	A	V	I	G	T	G	L	D	I	F	Y	P	L	E	N	R	K	I	Q	E	Y	L	A	K	Y	Q	L	V	L	S	E	Y	S	L	G	E	K	P	L	K	Y	H	F	P	E	R	N	R	I	I	A	G	L	S	R	G	V	V	V	E	A	K	L	R		226
NTDB	id	525	SMSK321	RS06295	WP	000705298.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	S	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	267	KZH43	RS05590	WP	000705306.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	226	SPD	RS05990	WP	000705306.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	192	SPR	RS05715	WP	000705306.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	157	SP	RS06205	WP	000705306.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	497	SM12261	RS05565	WP	000705318.1	T	A	A	H	M	A	A	L	Q	N	G	G	K	T	I	A	V	I	G	T	G	L	D	V	F	Y	P	K	A	N	K	R	L	Q	D	Y	I	G	N	D	H	L	V	L	S	E	Y	G	P	G	E	Q	P	L	K	F	H	F	P	A	R	N	R	I	I	A	G	L	C	R	G	V	I	A	E	A	K	M	R		227
NTDB	id	326918	EHF40	RS05390	WP	011017772.1	T	S	A	H	L	A	C	L	K	N	G	G	Q	T	I	A	T	I	G	T	G	L	D	R	F	Y	P	K	E	N	R	E	L	Q	T	F	L	G	K																																										

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NTDB id 1250 GC085 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 326918 EHF40 RS05390 WP 011017772.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

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NTDB id 1250 GC085 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 326918 EHF40 RS05390 WP 011017772.1
NTDB id 407 SMU RS04605 WP 002262865.1
consensus

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