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NTDB id	68583	CCX78	RS03230	WP	016265378.1	.MST	E	E	K	L	T	T	L	L	K	H	C	A	K	H	Y	V	Q	D	L	Y	F	T	P	T	I	G	G	W	R	L	T	E	R	R	Q	S	D	L	V	T	N	Q	E	L	D	K	P	T	G	T	R	Y	L	N	R	L	K	Y	M	A	G	M	D	I	S	E	T	R	R	A	Q	T	G	R	S	E	L	Q	L	A	D	84	
NTDB id	617	LCA	RS06480	WP	011375001.1	.MST	E	E	K	L	T	T	L	L	K	H	C	A	K	Q	R	V	Q	D	L	Y	F	T	P	T	I	G	G	W	R	L	T	E	R	R	Q	S	D	L	V	T	N	Q	E	L	D	K	P	T	G	T	R	Y	L	N	R	L	K	Y	M	A	G	M	D	I	S	E	T	R	R	A	Q	T	G	R	S	E	L	Q	L	A	D	84	
NTDB id	586	KW2	RS10855	WP	011836048.1	..	M	V	Q	K	K	A	Q	E	L	I	Q	K	A	I	E	M	E	A	S	D	I	Y	L	A	S	G	N	L	Y	K	I	Y	R	Q	L	G	R	T	L	E	E	V	N	Q	E	I	G	L	A	L	T	H	F	K	F	L	A	G	M	N	T	G	E	R	R	V	Q	L	G	A	C	W	Y	E	L	G	83						
NTDB id	584	DLJ51	RS00890	WP	019777327.1	M	V	E	V	Q	E	L	G	K	E	L	I	R	Q	A	V	E	E	Q	A	D	I	Y	L	P	K	P	A	V	Y	K	I	L	R	F	F	E	K	R	H	L	I	Q	T	C	P	P	E	Q	A	G	L	I	S	H	F	K	F	L	A	G	M	N	V	G	E	K	R	R	A	L	G	A	C	D	Y	A	F	A	D	85			
NTDB id	394	FSA28	RS09405	WP	002291652.1	..	M	V	Q	K	L	G	R	K	I	I	A	E	A	V	Q	N	K	A	Q	D	I	Y	I	P	K	K	E	S	Y	E	L	M	R	I	G	N	E	R	R	F	I	D	V	Y	D	H	H	F	M	A	N	L	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D	Y	S	Y	D	E	83	
NTDB id	385	SMU	RS09035	WP	002263435.1	..	M	V	Q	K	L	G	R	K	I	I	A	E	A	V	Q	N	K	A	Q	D	I	Y	I	P	K	K	E	S	Y	E	L	M	R	I	G	N	E	R	R	F	I	D	V	Y	D	H	H	F	M	A	N	L	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D	Y	S	Y	D	E	83	
NTDB id	429	SGO	RS09420	WP	012130942.1	..	M	V	Q	K	I	A	Q	A	I	V	R	Q	A	K	E	E	C	A	Q	D	I	Y	F	V	P	K	D	C	Y	E	L	M	R	V	G	D	E	R	R	F	I	Q	T	Y	D	F	Q	L	A	A	V	I	S	H	F	K	F	L	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D	Y	R	Y	D	83			
NTDB id	500	SM12261	RS00945	WP	000249545.1	..	M	V	Q	E	I	A	Q	E	I	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K	L	D	A	Y	E	L	H	M	R	V	G	D	E	R	C	K	I	G	S	Y	D	F	E	K	F	A	A	V	I	S	H	F	K	F	V	A	G	M	N	V	G	E	K	R	R	S	Q	L	G	S	C	D	Y	E	Y	D	83
NTDB id	270	KZH43	RS09265	WP	000249564.1	..	M	V	Q	E	I	A	Q	E	I	I	R	S	A	R	K	K	G	T	Q	D	I	Y	F	V	P	K																																																									

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NTDB id	68583 CCX78 RS03230 WP 016265378.1	.QTIYLRRLATVGDFFLNRESLVIRFIYPIGAIYHCDDQQLAQLTQMSRQSGLILFAGPTGSGKTTSLYHLAQQSMSAKMVVAIED	168
NTDB id	617 LCA RS06480 WP 011375001.1	.QTIYLRRLATVGDFFLNRESLVIRFIYPIGAIYHCDDQQLAQLTQMSRQSGLILFAGPTGSGKTTSLYHLAQQSMSAKMVVAIED	168
NTDB id	586 KW2 RS10855 WP 011836048.1	SSAKRLRLSTVGDFEGNESLVIRLLHDKQKELEFWFD.DK..LQDFRCKRGLYLFAFPVGSKGKTLMLFDLAHRHFNSNAQVITIEE	165
NTDB id	584 DLJ51 RS00890 WP 019777327.1	GETAALRLSTVG DYQGRSVIRLLIFDRKRLELFWFD.GINALLPKIIGRGLYLFGSPGVSGKTTLMYELVSRKVPDSQIITIED	169
NTDB id	394 FSA28 RS09405 WP 002291652.1	GKVISLRLSSVGDYRGYESLVIRLLFSGRHDLKFWFN.SMDLIILNEIKGRGLYLFGSPGVSGKTSLMYQLVKLRFETKQVITIED	167
NTDB id	385 SMU RS09035 WP 002263435.1	GKVISLRLSSVGDYRGYESLVIRLLFSGRHDLKFWFN.SMDLIILNEIKGRGLYLFGSPGVSGKTSLMYQLVKLRFETKQVITIED	167
NTDB id	429 SGO RS09420 WP 012130942.1	.KETSI RLSTVG DYRGYESLVIRLLHDEETELKFWF.T.HFPELREKFKDRGLYLFGSPGVSGKTTLMHQLAQLKFKGQQVMSIED	166
NTDB id	500 SM12261 RS00945 WP 000249545.1	.KMASLRLSTVG DYRGYESLVIRLLHDEEQDLHFWFQ.D.IEBLGKQYRQRGLYLFAFPVGSKGKTTLMHELSKSLFKGQQVMSIED	166
NTDB id	270 KZH43 RS09265 WP 000249564.1	.KIASLRLSTVG DYRGYESLVIRLLHDEEQDLHFWFQ.D.IEBLGKQYRQRGLYLFAFPVGSKGKTTLMHELSKSLFKGQQVMSIED	166
NTDB id	229 SPD RS09895 WP 000249564.1	.KIASLRLSTVG DYRGYESLVIRLLHDEEQDLHFWFQ.D.IEBLGKQYRQRGLYLFAFPVGSKGKTTLMHELSKSLFKGQQVMSIED	166
NTDB id	195 SPR RS09430 WP 000249564.1	.KIASLRLSTVG DYRGYESLVIRLLHDEEQDLHFWFQ.D.IEBLGKQYRQRGLYLFAFPVGSKGKTTLMHELSKSLFKGQQVMSIED	166
NTDB id	160 SP RS10380 WP 000249564.1	.KIASLRLSTVG DYRGYESLVIRLLHDEEQDLHFWFQ.D.IEBLGKQYRQRGLYLFAFPVGSKGKTTLMHELSKSLFKGQQVMSIED	166
consensus		* * * * * ! ! ! ! ! * * * * * ! ! ! ! ! * * * * * ! ! ! ! ! * * * * * ! ! ! ! ! * * * * * ! ! ! ! ! *	

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NTDB id 68583 CCX78 RS03230 WP 016265378.1	P	I	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	N	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	C	H	L	V	L	S	T	I	H	A	R	S	T	Q	G	V	V	A	R	L	L	D	L	G	I	S	E	L	253
NTDB id 617 LCA RS06480 WP 011375001.1	P	I	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	N	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	C	H	L	V	L	S	T	I	H	A	R	S	T	Q	G	V	V	A	R	L	L	D	L	G	I	S	E	L	253
NTDB id 586 KW2 RS10855 WP 011836048.1	P	V	E	L	I	D	S	D	F	I	Q	L	Q	V	N	D	I	G	N	S	D	E	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	Q	T	A	R	A	V	I	R	A	S	L	T	G	Y	T	V	F	S	T	I	H	A	S	V	K	G	V	V	Q	R	L	L	E	L	G	S	E	L	250				
NTDB id 584 DLJ51 RS00890 WP 019777327.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	Q	A	V	I	R	A	S	L	T	G	I	R	V	F	S	T	I	H	A	K	S	I	P	G	V	V	A	R	L	E	L	G	V	S	E	L	254			
NTDB id 394 FSA28 RS09405 WP 002291652.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	V	A	R	L	E	L	G	T	S	E	L	252			
NTDB id 385 SMU RS09035 WP 002263435.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	K	E	T	A	R	A	V	I	R	A	S	L	T	G	A	M	V	F	S	T	I	H	A	K	S	I	P	G	V	V	A	R	L	E	L	G	T	S	E	L	252			
NTDB id 429 SGO RS09420 WP 012130942.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	L	T	Y	E	S	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	V	E	R	L	L	E	L	G	V	S	E	L	251		
NTDB id 500 SM12261 RS00945 WP 000249545.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	P	G	V	V	E	R	L	L	E	L	G	V	S	E	L	251		
NTDB id 270 KZH43 RS09265 WP 000249564.1	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	N	S	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	G	E	I	R	D	S	E	T	A	R	A	V	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A																					

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