

NTDB	id	617	LCA	RS06480	WP	011375001.1	.MSTEEKLTTLLKHCAKQRVQDLYFTPTTIGGWRLTERRQSDLVTNQELDKPTGTRYLNRLKYMAGMDISERRAQTGRSE	79
NTDB	id	586	KW2	RS10855	WP	011836048.1	..MVQKKKAQELIQKAIEMBASDIYLIASGNLYKIYIRQQLGRTLIEEVNQEIGLALLTHFKFLAGMNTGERRRVQLGACW	78
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	MVEVQELGKELIRQAVEEQAQDIYLLPKPAVKYIYLRFGKGRHLIQTCPEQAAGLISHFKFLAGMNVGEKRRSQLGACD	80
NTDB	id	385	SMU	RS09035	WP	002263435.1	..MVQKLGRKLIABAVQNKAQDIYIIPKKESEYELYMRIGNERRFIIDVYDHHFMANLISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	394	FSA28	RS09405	WP	002291652.1	..MVQKLGRKLIABAVQNKAQDIYIIPKKESEYELYMRIGNERRFIIDVYDHHFMANLISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	429	SGO	RS09420	WP	012130942.1	..MVQKIAQAIVRQAKEECAQDIYFVPKDDCYELYMRIIGDERRFIQTYYDFDQLAAVISHFKFLAGMNVGEKRRSQLGSCD	78
NTDB	id	500	SM12261	RS00945	WP	000249545.1	..MVQEIAQEIIIRSARKKGAQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	338264	EQH21	RS09560	WP	000249555.1	..MVQEIAQEIIIRSARKKGAQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	270	KZH43	RS09265	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	229	SPD	RS09895	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	195	SPR	RS09430	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB	id	160	SP	RS10380	WP	000249564.1	..MVQEIAQEIIIRSARKKGTQDIYFVPKLDAYELHMRVGDERRCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
consensus							***** * * * * ! ! ! ! ! * * * * * ! ! ! ! ! * * * * * ! ! ! ! ! * * * * *	

NTDB	id	617	LCA	RS06480	WP	011375001.1	LQLAD.QTIY	LRLA	TVGDF	LNRE	ESL	VI	RF	IYP	IGAIY	HCDD	QIL	LA	LT	QMS	RQ	SL	IL	FA	GP	T	SG	K	T	SL	YH	LA	Q	S	M	158																																															
NTDB	id	586	KW2	RS10855	WP	011836048.1	YEL	E	GSS	AKR	LRL	ST	V	G	D	F	E	CN	ESL	VI	R	LL	H	D	Q	K	Q	E	L	F	W	F	D	.DK	.L	Q	D	F	R	C	K	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	S	L	M	F	D	L	A	H	R	H	F	155															
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	Y	A	F	A	D	G	E	T	A	A	L	R	L	S	T	V	G	D	Y	G	Q	R	E	S	L	VI	R	LL	F	D	R	K	R	E	L	K	F	W	F	D	.GL	N	A	L	L	P	K	I	I	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	Y	E	L	V	S	R	K	Y	159	
NTDB	id	385	SMU	RS09035	WP	002623435.1	Y	S	V	D	E	G	K	V	I	S	L	R	S	S	V	G	D	Y	R	G	Y	E	S	L	VI	R	LL	F	S	G	R	H	D	L	K	F	W	F	N	.S	M	D	L	I	L	N	E	I	K	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F	157	
NTDB	id	394	FSA28	RS09405	WP	002291652.1	Y	S	V	D	E	G	K	V	I	S	L	R	S	S	V	G	D	Y	R	G	Y	E	S	L	VI	R	LL	F	S	G	R	H	D	L	K	F	W	F	N	.S	M	D	L	I	L	N	E	I	K	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	S	L	M	Y	Q	L	V	K	L	R	F	157	
NTDB	id	429	SGO	RS09420	WP	012130942.1	Y	R	Y	D	D	.K	E	T	S	I	R	L	S	T	V	G	D	Y	R	G	Y	E	S	L	VI	R	LL	H	D	E	E	T	E	L	K	F	W	F	T	.H	F	P	E	L	R	E	K	F	K	D	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	Q	L	A	Q	L	K	F	156
NTDB	id	500	SM12261	RS00945	WP	000249545.1	Y	E	Y	D	Q	.K	M	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	VI	R	LL	H	D	E	E	Q	D	L	H	F	W	F	Q	.D	I	E	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F	156
NTDB	id	338264	EQH21	RS09560	WP	000249555.1	Y	A	Y	D	Q	.K	M	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	VI	R	LL	H	D	E	E	Q	D	L	H	F	W	F	Q	.D	I	E	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F	156
NTDB	id	270	KZH43	RS09265	WP	000249564.1	Y	A	Y	D	H	.K	T	A	S	L	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	VI	R	LL	H	D	E	E	Q	D	L	H	F	W	F	Q	.D	I	E	E	L	G	K	Q	Y	R	Q	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	H	E	L	A	K	S	L	F	156
NTDB	id	229	SPD	RS09895	WP	000249564.1	Y	A	Y	D	H	.K	T	A	S	L	R	L	S	T	V	G	D	Y	R</																																																										

NTDB	id	617	LCA	RS06480	WP	011375001.1	S	A	K	M	V	V	A	I	E	D	P	T	E	I	V	A	P	E	F	L	Q	L	Q	V	N	D	A	G	L	S	Y	A	E	L	L	K	I	S	L	R	L	R	P	D	T	L	I	I	G	E	I	R	D	L	E	T	A	Q	Y	V	V	S	A	A	L	S	G	H	L	V	L	S	T	I	H	A	R	S	T	238
NTDB	id	586	KW2	RS10855	WP	011836048.1	S	N	A	Q	V	I	T	I	E	P	V	E	I	I	D	S	D	F	I	Q	L	Q	V	N	D	V	I	G	N	S	Y	D	E	L	I	K	L	S	L	R	H	R	P	D	L	L	I	V	G	E	I	R	D	Q	Q	T	A	R	A	V	I	R	A	S	L	T	G	Y	T	V	F	S	T	I	H	A	S	V	235	
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	P	D	S	Q	I	T	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	P	S	I	G	M	T	Y	D	H	L	I	K	L	S	L	R	H	R	P	D	V	L	I	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	239
NTDB	id	385	SMU	RS09035	WP	002263435.1	E	T	K	Q	V	I	T	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	S	I	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	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	237
NTDB	id	394	FSA28	RS09405	WP	002291652.1	E	T	K	Q	V	I	T	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	S	I	D	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	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	237
NTDB	id	429	SGO	RS09420	WP	012130942.1	K	G	Q	Q	V	M	S	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	T	I	G	L	T	Y	E	S	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	S	E	T	A	R	A	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	236
NTDB	id	500	SM12261	RS00945	WP	000249545.1	K	G	Q	Q	V	M	S	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	S	E	T	A	R	A	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	236
NTDB	id	338264	EQH21	RS09560	WP	000249555.1	K	G	Q	Q	V	M	S	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R	H	R	P	D	L	L	I	I	G	E	I	R	D	S	E	T	A	R	A	V	R	A	S	L	T	G	A	T	V	F	S	T	I	H	A	K	S	I	236
NTDB	id	270	KZH43	RS09265	WP	000249564.1	K	G	Q	Q	V	M	S	I	E	D	P	V	E	I	K	Q	D	N	M	L	Q	L	Q	L	N	E	A	I	G	L	T	Y	E	N	L	I	K	L	S	L	R																																							

