

logo

NTDB id 617	LCA RS06480 WP 011375001.1	.MSTEEKLTTLLKHCAKQRVQDLYFTPTIGGWRLTERRQSDLVTNQELDKPTGTRYLNRLKYMAGMDISETRRAQTGRSE	79
NTDB id 586	KW2 RS10855 WP 011836048.1	..MVQKKAQELIQKAIEMBASDIYLLIASGNLYKYIYIRQQLGRRTLIEEVNQEIGLALLTHFKFLAGMNTGERRRVQLGACW	78
NTDB id 384820	MGAS2221 RS00650 WP 010921798.1	..MVQALAKAILAKAEQVHAQDIYILPRADQYDLFLIGDERLRLVDVQSDRMAGLISHFKFVAGMNVGEKRRSQVGSCD	78
NTDB id 584	DLJ51 RS00890 WP 019777327.1	MVEVQELGELQIRQAIVEEQAQDIYILPKPAVYKLYLRFGEKRHLIQTCPPLEQAAGLISHFKFLAGMNVGEKRRRAQLGACD	80
NTDB id 394	FSA28 RS09405 WP 002291652.1	..MVQKLGRKIIAEAVQNKAQDIYIIPKKESYELYMRITGNERRFIDVYDHHFMANLISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 385	SMU RS09035 WP 002263435.1	..MVQKLGRKIIAEAVQNKAQDIYIIPKKESYELYMRITGNERRFIDVYDHHFMANLISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 429	SGO RS09420 WP 012130942.1	..MVQKIIAQAIIVRKAKECAQDIYFVPKDDCYELMRIGDERRFIQTYYDFQLAAVLISHFKFLAGMNVGEKRRSQLGSCD	78
NTDB id 500	SM12261 RS00945 WP 000249545.1	..MVQEIIAQEIIRSARKKGAQDIYFVPKLDAYELHMRVGDERCKIGCYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 270	KZH43 RS09265 WP 000249564.1	..MVQEIIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 229	SPD RS09895 WP 000249564.1	..MVQEIIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 195	SPR RS09430 WP 000249564.1	..MVQEIIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
NTDB id 160	SP RS10380 WP 000249564.1	..MVQEIIAQEIIRSARKKGTQDIYFVPKLDAYELHMRVGDERCKIGSYDFEKFAAVISHFKFVAGMNVGEKRRSQLGSCD	78
consensus		***** * * ! * ! * * * * * * * * ! * * * * * * * * * * ! * * * * ! * * * * ! * * * * ! * * * *	

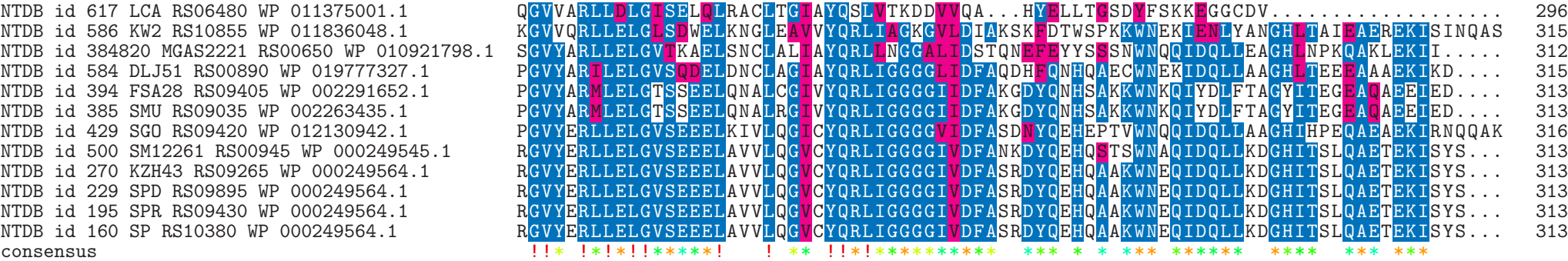
logo

NTDB	id	617	LCA	RS06480	WP	011375001.1	LQLAD	QTIY	LRL	A	T	V	G	D	F	L	N	R	E	S	L	V	I	R	F	T	Y	P	I	G	A	I	Y	H	C	D	D	Q	Q	I	L	A	Q	L	T	Q	M	S	R	Q	S	G	L	I	F	A	G	P	T	G	S	G	K	T	T	S	L	Y	H	L	A	Q	Q	S	M	158																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	586	KW2	RS10855	WP	011836048.1	YEL	E	G	S	S	A	K	R	L	R	L	S	T	V	G	D	F	E	G	N	E	S	L	V	I	R	L	L	H	D	Q	K	Q	E	L	E	F	W	F	D	.	D	K	.	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	384820	MGAS2221	RS00650	WP	010921798.1	YKLSKD	Q	Q	L	S	R	L	S	S	V	G	D	Y	R	G	Q	E	S	L	V	I	R	L	L	H	Q	N	K	S	V	H	Y	W	F	D	.	G	L	T	K	V	A	N	Q	V	G	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	Y	Q	L	I	S	N	Y	H	157																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
NTDB	id	584	DLJ51	RS00890	WP	019777327.1	YAF	A	D	G	E	T	A	A	L	R	L	S	T	V	G	D	Y	R	G	E	S	L	V	I	R	L	L	F	D	R	K	R	E	L	K	F	W	F	D	.	G	L	N	A	L	L	P	K	I	G	R	G	L	Y	L	F	A	G	P	V	G	S	G	K	T	T	L	M	Y	E	L	S	R	K	Y	159																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB	id	394	FSA28	RS09405	WP	002291652.1	Y	S	Y	D	E	G	K	V	I	S	R	L	S	S	V	G	D	Y	R	G	E	S	L	V	I	R	L	L	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	385	SMU	RS09035	WP	002263435.1	Y	S	Y	D	E	G	K	V	I	S	R	L	S	S	V	G	D	Y	R	G	E	S	L	V	I	R	L	L	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	E	S	L	V	I	R	L	L	H	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	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	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	I	A	S	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	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	I	A	S	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	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	195	SPR	RS09430	WP	000249564.1	Y	A	Y	D	H	.	K	I	A	S	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	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	160	SP	RS10380	WP	000249564.1	Y	A	Y	D	H	.	K	I	A	S	R	L	S	T	V	G	D	Y	R	G	H	E	S	L	V	I	R	L	L	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
consensus							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*</

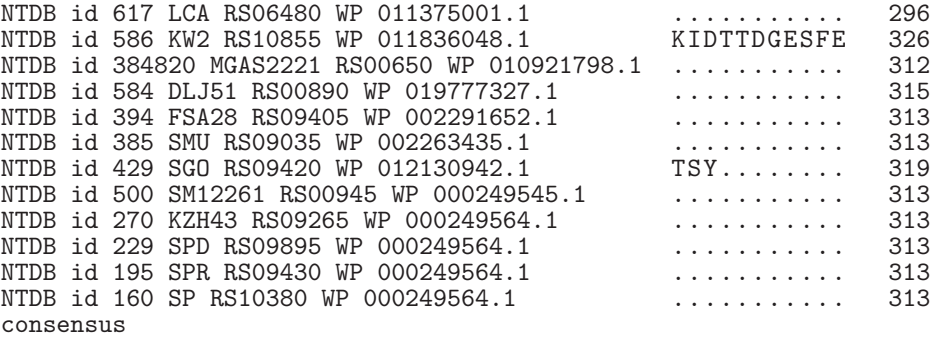
logo

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	N	A	G	L	S	Y	A	E	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	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	L	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	A	S	V	235																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB id 384820	MGAS2221 RS00650 WP 010921798.1	P	Q	A	Q	V	I	S	I	E	D	P	V	E	I	K	N	H	Q	I	L	Q	L	Q	V	N	D	I	G	M	T	Y	D	N	L	I	K	L	S	L	R	H	R	P	D	L	I	V	G	E	I	R	D	S	Q	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 584	DLJ51 RS00890 WP 019777327.1	P	Q	A	Q	V	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	G	E	I	R	D	R	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 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 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 429	SGO RS09420 WP 012130942.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 500	SM12261 RS00945 WP 000249545.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 270	KZH43 RS09265 WP 000249564.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 229	SPD RS09895 WP 000249564.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 195	SPR RS09430 WP 000249564.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 160	SP RS10380 WP 000249564.1	K	G	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	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	236																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
consensus		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

logo



logo



☒ non conserved
☒ similar
☒ ≥ 50% conserved