

NTDB id	587 KW2 RS10850 WP 042211510.1	MQTDLRLLRPKGKKLALIKQAKLIQLMGNNLLNNGFNLGEVINFLALSKLVEKEFFVKM	59
NTDB id	206814 BSR14 RS09550 WP 156209968.1	MPV KISKAIRQPAGTSSWKVLNKDISLKGISKGKCLKINQQLVIFLFKQLLAGFTLTETI VAFLE RSH LLS KESSL SLM	80
NTDB id	395 FSA28 RS09400 WP 257638827.1	MTFLQQDISLKEKHKKQKKLIKIKQRKVIFLFNNFLTSGFNLTETIIDFLERSHLLAEITYTKKM	62
NTDB id	386 SMU RS09030 WP 255262721.1	MTFLQQDISLKEKHKKQKKLIKIKQRKVIFLFNNFLTSGFNLTETIIDFLERSHLLAEITYTKKM	62
NTDB id	430 SGO RS09415 WP 012130941.1	MISFLQQDISILSKKKQKKLGTSKQKVIELFNNLFSSGFHLAETVD FLGRSALLEKNYVQQM	63
NTDB id	271 KZH43 RS09260 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	230 SPD RS09890 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	196 SPR RS09425 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	161 SP RS10375 WP 074196785.1	MDISQVFRLRRKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	529 SMSK321 RS09235 WP 080550783.1	MDISQVFRLRKKLLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
NTDB id	501 SM12261 RS00950 WP 004238896.1	MDISQVFRLRKKKLAT AKQNII TLFNNLFSSGFHLVETISFLDRSALLDKQCVTQM	57
consensus		*!!*****!!!****!*!!!!**!***!****!	

NTDB	id	587	KW2	RS10850	WP	042211510.1	HQGLSSGKSLSEILSLSFSKNVVTQLALVEVHGNI	LVGTMLQVELHLKKQLKVKKKLIEVATYPV	VLLVFLIGIMWGLK	139		
NTDB	id	206814	BSR14	RS09550	WP	156209968.1	KASLMRGDRLDQMFAAVGFS	DNIVTQIALADKHGNLLGSLTKIETYMLRMTKV	RKKLMEVATYPI	LLGFLVLIIMLGFKN	160	
NTDB	id	395	FSA28	RS09400	WP	257638827.1	RQGLLNGLHLAEIMSSSLGFS	DDVVTQLALSEVHGNTQKSL	LKIESYNNLILVKKKL	VEVITYPITILLIFL	VVIMLGLKN	142
NTDB	id	386	SMU	RS09030	WP	255262721.1	RQGLLNGLHLAEIMSSSLGFS	DDVVTQLALSEVHGNTQKSL	LKIESYNNLILVKKKL	VEVITYPITILLIFL	VVIMLGLKN	142
NTDB	id	430	SGO	RS09415	WP	012130941.1	RQGLLANGQA	FSSEIMASLGFSDAVVTQLSLAEVHGNLS	LALLKIEEYLDNLAKVKKKL	IEVATYPMMLLGF	LVIMIGLRN	143
NTDB	id	271	KZH43	RS09260	WP	074196785.1	RVGLSQGKSFSEMMESLGC	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLLIMLGLRN	137
NTDB	id	230	SPD	RS09890	WP	074196785.1	RVGLSQGKSFSEMMESLGC	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLLIMLGLRN	137
NTDB	id	196	SPR	RS09425	WP	074196785.1	RVGLSQGKSFSEMMESLGC	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLLIMLGLRN	137
NTDB	id	161	SP	RS10375	WP	074196785.1	RVGLSQGKSFSEMMESLGC	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLLIMLGLRN	137
NTDB	id	529	SMSK321	RS09235	WP	080550783.1	RTDLSQGKSFSEMMESLGF	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLSIMLGLRN	137
NTDB	id	501	SM12261	RS00950	WP	004238896.1	RAGLSQGKSFSEMMESLGF	SSAIVTQLSLAEVHGNI	LHLSLGKIEEYLDNLAKVKKKL	IEVATYPI	LLGFLLLIMLGLRN	137
consensus							* * ! * * ! * * * * * * * * * * ! * * * ! ! ! * * ! * * * ! ! ! * * * * * * ! * * * * * * ! * * ! ! * ! * ! ! ! * * ! ! * ! * * ! ! * ! * * !					

NTDB id 587 KW2 RS10850 WP 042211510.1	YLLPQLDKG...N	FATLLINHLPLVFFSVG	ALIVLLTS	LSIIIFKH	ISALTN	FTFLVKVPLVSS	FIRLYLTAYFS	REW	216
NTDB id 206814 BSR14 RS09550 WP 156209968.1	YLLPQLLEGY	GKENWTVQLVQIFPQLFF	ATLCGLLVLS	LILYLWVKRQP	ALVFYRR	MAKIPFIGQT	VRLYTTAYY	AREWG	240
NTDB id 395 FSA28 RS09400 WP 257638827.1	YLLPQLE....	KGNFATRLISN	FPILFLLGCCFF	ILVVG	IFTFFSRKI	SRLHLIGFCS	SHLPFVGKYL	QLYLTAYYAREWG	218
NTDB id 386 SMU RS09030 WP 255262721.1	YLLPQLE....	RGNFATRLISN	FPILFLLGCCFF	ILVVG	IFTFFSRKI	SRLHLIGFCS	SHLPFAGKYL	QLYLTAYYAREWG	218
NTDB id 430 SGO RS09415 WP 012130941.1	YLLPQLS...	SQNFATRLIGH	LPTIFLLTLV	MLGLTGAIYLV	FKGQKRIP	VSVFLARLPFV	GSFVRIYLTAYY	AREWG	219
NTDB id 271 KZH43 RS09260 WP 074196785.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMSVFSILARLP	FIGIFVQTYLTAYY	AREWG	213
NTDB id 230 SPD RS09890 WP 074196785.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMSVFSILARLP	FIGIFVQTYLTAYY	AREWG	213
NTDB id 196 SPR RS09425 WP 074196785.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMSVFSILARLP	FIGIFVQTYLTAYY	AREWG	213
NTDB id 161 SP RS10375 WP 074196785.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMSVFSILARLP	FIGIFVQTYLTAYY	AREWG	213
NTDB id 529 SMSK321 RS09235 WP 080550783.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMRVFSILARIP	FIGIFVQTYLTAYY	AREWG	213
NTDB id 501 SM12261 RS00950 WP 004238896.1	YLLPQLD...	SSNIATQIIGN	LPGIFLGMVGLVSV	LALLALT	TFYKRS	SKMRVFSILARIP	FIGIFVQTYLTAYY	AREWG	213
consensus	!!!!!!*	***!*****	***!*****	*****	*****	*****	*****!*****	*****!*****	

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NTDB id 529 SMSK321 RS09235 WP 080550783.1
NTDB id 501 SM12261 RS00950 WP 004238896.1
consensus



☒ non conserved
☒ similar
☒ ≥ 50% conserved