

[illegible][illegible][illegible]

NTDB id 596 KW2 RS08720 WP 021037686.1	RKILLRMGLTREIVNLVQIPFSIFYAFMTGLSVSVLRALFQKNIR...LTSLDNIGVTTLVLMISP KFLLTGGQTLFYAFVI	327
NTDB id 494 SM12261 RS04305 WP 000942409.1	KKILLRLRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 522 SMSK321 RS04965 WP 000942453.1	KKLLLRRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 189 SPR RS04300 WP 000942407.1	KKILLRLRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 223 SPD RS04540 WP 000942407.1	KKLLLRRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 264 KZH43 RS04200 WP 000942407.1	KKLLLRRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 95510 QMM33 RS06005 WP 050207195.1	KKLLLRRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
NTDB id 154 SP RS04735 WP 000942394.1	KKLLLRRLGLTQEKLLKWLTPFSLIYAGLTGFSASVIRSL LQKLLAQHG VKGLDNFALT VLVLFIVMPNFFLTAGGVLSCAYAFIL	340
consensus	*****	

NTDB id 596 KW2 RS08720 WP 021037686.1	SMLNH ⁺ PFSNLNGLKKVLTESA ⁺ VLSL ⁺ CVLP ⁺ LIFDFHIFQPLSILLTILFGFLDFFML ⁺ LPLL ⁺ LCCF ⁺ LTSFL ⁺ GFS ⁺ LN ⁺ LNFI ⁺ FQ ⁺ ILEW	412
NTDB id 494 SM12261 RS04305 WP 000942409.1	TMTSK...EGEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFALSFLHPVIQLNFIFEWLEG	422
NTDB id 522 SMSK321 RS04965 WP 000942453.1	TMTSK...EGEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFALSFLYPVIQLNFIFEWLEG	422
NTDB id 189 SPR RS04300 WP 000942407.1	TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFVLSFLYPVIQLNFIFEWLEG	422
NTDB id 223 SPD RS04540 WP 000942407.1	TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFVLSFLYPVIQLNFIFEWLEG	422
NTDB id 264 KZH43 RS04200 WP 000942407.1	TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFVLSFLYPVIQLNFIFEWLEG	422
NTDB id 95510 QMM33 RS06005 WP 050207195.1	TMTSK...EGEGLKAVTESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFVLSFLYPVIQLNFIFEWLEG	422
NTDB id 154 SP RS04735 WP 000942394.1	TMTSK...EGEGLKAVTESLVISLGILPILSFYFAEFQPWSILLTFVVSFLFDLVFLPLL ⁺ SILFVLSFLYPVIQLNFIFEWLEG	422
consensus	* ! * * *	

NTDB id 596 KW2 RS08720 WP 021037686.1	LVHKVLDPLHYPFVLGKPSSELELILFVLIGLFVDSFSHKKRFRFLVGFIFLFFFLTKNPMRASITAVDIGQGDSSIFLQDKFNKE	497
NTDB id 494 SM12261 RS04305 WP 000942409.1	MIRFVSVQVASRPLVFGQPNAWILILLISLALVYDLRKNIKRLAVLSLLITGLFFLTCKHPLNEITMLDVGQGESIFLRDVTGK	506
NTDB id 522 SMSK321 RS04965 WP 000942453.1	MIRLVSQVASRPLVFGQPNAWLLILLISLALVYDLRKNIKRLAVLSLLITGLFFLTCKYPLNEITMLDVGQGESIFLRDVAAGK	506
NTDB id 189 SPR RS04300 WP 000942407.1	IIRLVSQVTSRPLVFGQPNTWLLILLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLNEITMLDVGQGESIFLRDVTGK	506
NTDB id 223 SPD RS04540 WP 000942407.1	IIRLVSQVTSRPLVFGQPNTWLLILLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLNEITMLDVGQGESIFLRDVTGK	506
NTDB id 264 KZH43 RS04200 WP 000942407.1	IIRLVSQVTSRPLVFGQPNTWLLILLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLNEITMLDVGQGESIFLRDVTGK	506
NTDB id 95510 QMM33 RS06005 WP 050207195.1	IIRLVSQVTSRPLVFGQPNAWFLILLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLNEITMLDVGQGESIFLRDVTGK	506
NTDB id 154 SP RS04735 WP 000942394.1	IIRLVSQVARRPLVFGQPNAWLLILLISLALVYDLRKNIKKLTVLSLLITGLFFLTCKYPLNEITMLDVGQGESIFLRDVTGK	506
consensus	***** ** ** ** **	

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NTDB id 596 KW2 RS08720 WP 021037686.1	EKLKKAKIP	I	H	V	S	K	V	G	D	K	I	P	F	D	S	F	L	Q	V	L	S	N	G	Y	T	K	K	G	D	N	S	I	V	T	Y	G	N	F	Y	H	T	K	F	L	T	G	D	L	E	Q	E	G	E	K	L	L	Q	N	Y	P	K	L	Q	V	D	V	L	K	V	G	H	I		665									
NTDB id 494 SM12261 RS04305 WP 000942409.1	AELQATQTKVRS	I	T	A	G	E	N	L	S	I	F	G	S	Q	L	E	V	L	S	P	R	K	I	G	D	G	G	Y	E	D	S	L	V	L	Y	G	K	L	L	D	K	Y	F	L	T	G	N	L	E	E	K	G	E	K	E	L	L	K	H	Y	P	D	L	K	V	D	V	L	K	A	G	Q	H	I		676							
NTDB id 522 SMSK321 RS04965 WP 000942453.1	AELQATQTKVH	S	V	A	E	G	N	V	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	I	G	D	G	H	D	S	L	V	L	Y	G	K	L	L	D	K	H	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	Q	Y	P	D	L	E	V	D	V	L	K	A	S	Q	H	I		676									
NTDB id 189 SPR RS04300 WP 000942407.1	AELQATQTKVRS	M	I	V	G	E	N	L	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	M	G	D	G	H	D	T	L	V	L	Y	G	K	F	L	D	K	Q	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	H	Y	P	D	L	K	V	N	V	L	K	A	S	Q	H	I		676									
NTDB id 223 SPD RS04540 WP 000942407.1	AELQATQTKVRS	M	I	V	G	E	N	L	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	M	G	D	G	H	D	T	L	V	L	Y	G	K	F	L	D	K	Q	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	H	Y	P	D	L	K	V	N	V	L	K	A	S	Q	H	I		676									
NTDB id 264 KZH43 RS04200 WP 000942407.1	AELQATQTKVRS	M	I	V	G	E	N	L	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	M	G	D	G	H	D	T	L	V	L	Y	G	K	F	L	D	K	Q	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	H	Y	P	D	L	K	V	N	V	L	K	A	S	Q	H	I		676									
NTDB id 95510 QMM33 RS06005 WP 050207195.1	AELQ	T	T	Q	T	K	V	R	S	M	T	I	V	G	E	N	L	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	M	G	D	G	H	D	T	L	V	L	Y	G	K	F	L	D	K	Q	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	H	Y	P	D	L	K	V	N	V	L	K	T	S	Q	H	I		676
NTDB id 154 SP RS04735 WP 000942394.1	AELQATQTKVRS	M	I	V	G	E	N	L	P	I	F	G	S	Q	L	E	V	L	S	P	R	K	M	G	D	G	H	D	T	L	V	L	Y	G	K	F	L	D	K	Q	F	L	T	G	N	L	E	E	K	G	E	K	D	L	L	K	H	Y	P	D	L	K	V	N	V	L	K	A	S	Q	H	I		676									
consensus	***	*																																																																																	

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NTDB id 596 KW2 RS08720 WP 021037686.1	GNKKSSSPAFLEKLPKELTLISVGKsNRMKLPQETLTRLEGINSKVYRTDQGAIRFKGLR SWKIESVR	
NTDB id 494 SM12261 RS04305 WP 000942409.1	GSKTSSSPFETKEIHPKLAALISVGKANRYGHPNQETLETAKYQVKTLRTDQKGAIKLTEVNNQQWQIKTIVR	736
NTDB id 522 SMSK321 RS04965 WP 000942453.1	GSKKSSSSDFLEKLPKPEFTLISVGKNNRAKLPHQETLTRLETINSKVYRTDQHGAIKFKGWN.SWKVETVG	746
NTDB id 189 SPR RS04300 WP 000942407.1	GSKKSSSSAFLEQLKPEMTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQGGAIKFKGWN.SWKIESVR	746
NTDB id 223 SPD RS04540 WP 000942407.1	GNKKSSSPAFLEKLPKELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQGGAIKFKGLD.SWKIESVR	746
NTDB id 264 KZH43 RS04200 WP 000942407.1	GNKKSSSPAFLEKLPKELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQGGAIKFKGLD.SWKIESVR	746
NTDB id 95510 QMM33 RS06005 WP 050207195.1	GNKKSSSPAFLEKLPKELTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQGGAIKFKGLD.SWKIESVR	746
NTDB id 154 SP RS04735 WP 000942394.1	GNKKSSSPAFLEKLPKELTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQGGAIKFKGLD.SWKIESVR	746
consensus	!*!!!!!!**!*****!***!!!!!!*!!**!! !!!!!**!*****!***!!!!!!*!!!!***** *!*****!*	

-  non conserved
-  similar
-  ≥ 50% conserved