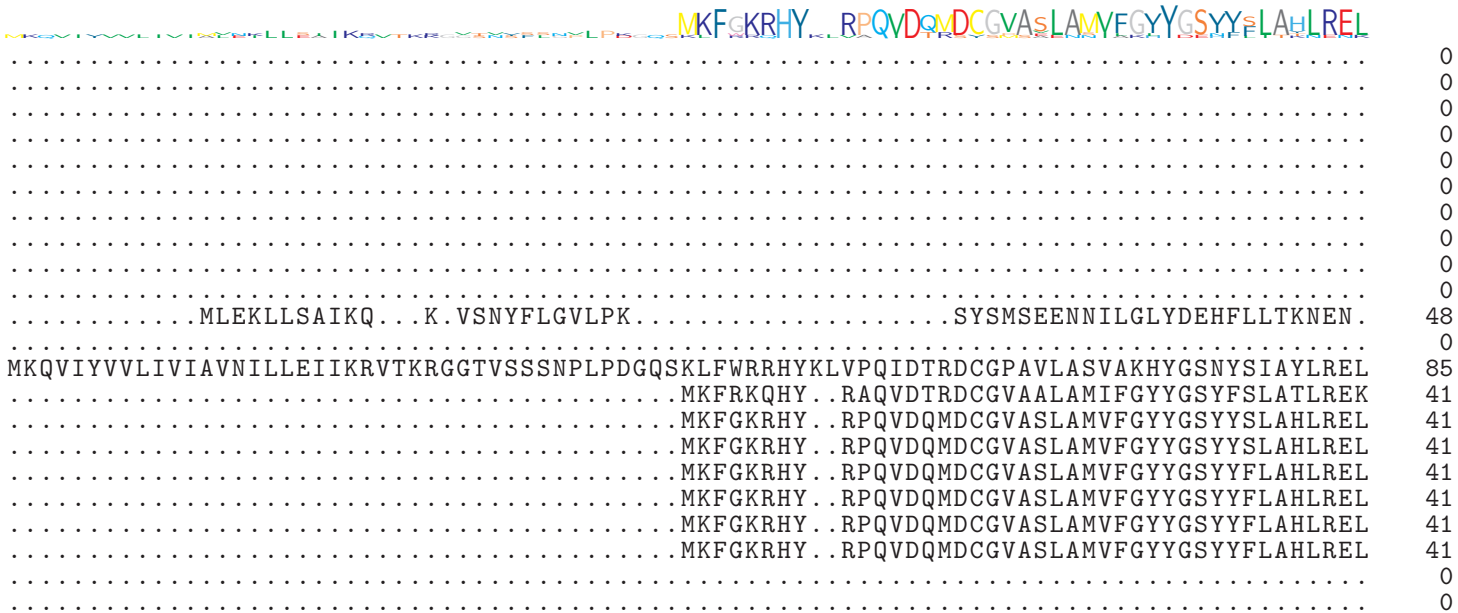


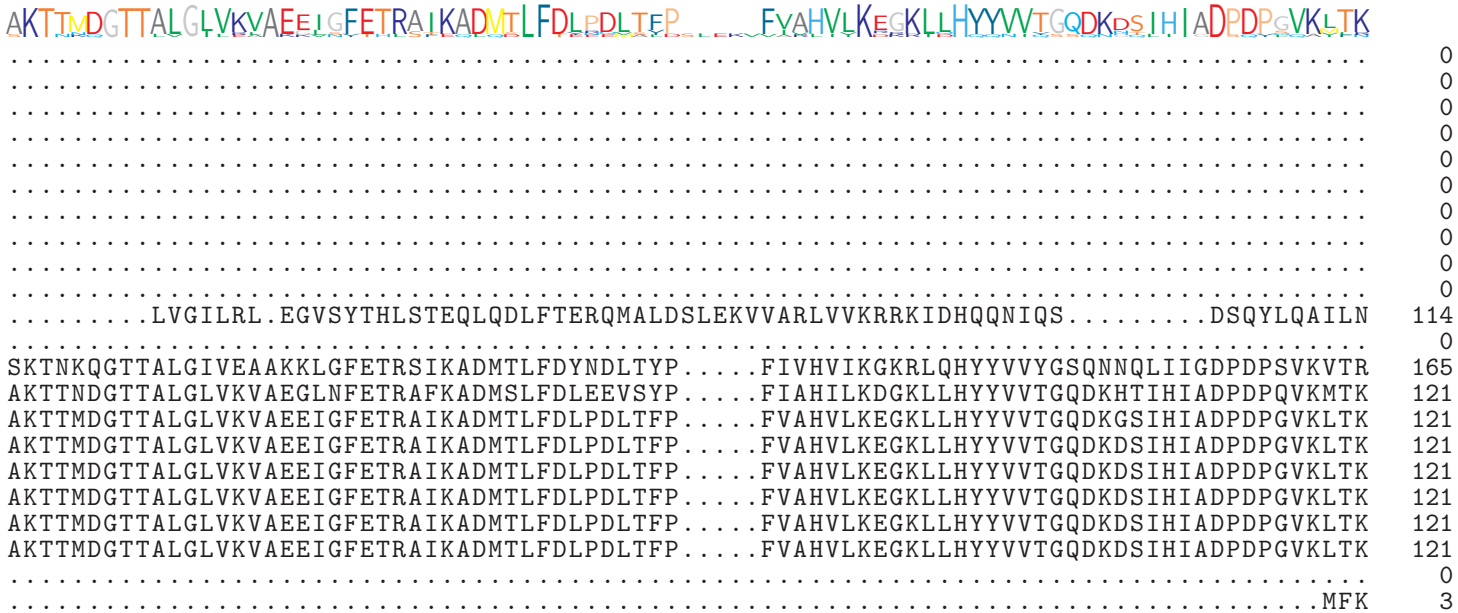
logo

NTDB id 429 SGO RS09420 WP 012130942.1
NTDB id 478 HSISS4 RS06985 WP 021143811.1
NTDB id 327 STU RS16115 WP 011226304.1
NTDB id 295 STER RS06915 WP 011226304.1
NTDB id 435 SGO RS09490 WP 012130955.1
NTDB id 473 HSISS4 RS07770 WP 021143710.1
NTDB id 481 STER RS07730 WP 002951673.1
NTDB id 479 HSISS4 RS06980 WP 021143812.1
NTDB id 328 STU RS16110 WP 002951426.1
NTDB id 296 STER RS06910 WP 011681415.1
NTDB id 1219 C694 RS00105 WP 000890508.1
NTDB id 370 SMU RS04260 WP 002263294.1
NTDB id 358 SMU RS01425 WP 002263523.1
NTDB id 421 SGO RS10260 WP 012131060.1
NTDB id 511 SMSK321 RS10730 WP 000668322.1
NTDB id 483 SM12261 RS00275 WP 000668315.1
NTDB id 247 KZH43 RS00220 WP 000668290.1
NTDB id 206 SPD RS00235 WP 000668290.1
NTDB id 171 SPR RS00230 WP 000668290.1
NTDB id 131 SP RS00255 WP 000668284.1
NTDB id 56445 HOI88 RS06575 WP 095558980.1
NTDB id 369 SMU RS04255 WP 002263293.1
consensus



logo

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NTDB id 478 HSISS4 RS06985 WP 021143811.1
NTDB id 327 STU RS16115 WP 011226304.1
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NTDB id 369 SMU RS04255 WP 002263293.1
consensus



logo

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NTDB id 370 SMU RS04260 WP 002263294.1	MENKKK.....SLLSQMAPYLKGYKALFGLA....	26
NTDB id 358 SMU RS01425 WP 002263523.1	..MSKERFQSEWTGLAIFLAPQPNYKPHKGK.....NGLSNFFFLIFKQKALMTYI....	215
NTDB id 421 SGO RS10260 WP 012131060.1	..ISRERFEQEWGTGITIFLAPSPAYKPSQEKK.....NGLLDFIPLLIKQKGLITNI....	171
NTDB id 511 SMSK321 RS10730 WP 000668322.1	..LPRERFAEEWTGVTLFMAPSPDYKPHKDQK.....NGLLSFIPILVKQRGLIANI....	171
NTDB id 483 SM12261 RS00275 WP 000668315.1	..LPRERFAEEWTGVTLFMAPSPDYKPHKDQK.....NGLLSFIPILVKQRGLIANI....	171
NTDB id 247 KZH43 RS00220 WP 000668290.1	..LPRERFEEEWGTGVTLFMAPSPDYKPHKEQK.....NGLLSFIPILVKQRGLIANI....	171
NTDB id 206 SPD RS00235 WP 000668290.1	..LPRERFEEEWGTGVTLFMAPSPDYKPHKEQK.....NGLLSFIPILVKQRGLIANI....	171
NTDB id 171 SPR RS00230 WP 000668290.1	..LPRERFEEEWGTGVTLFMAPSPDYKPHKEQK.....NGLLSFIPILVKQRGLIANI....	171
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consensus		

logo

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NTDB id 370 SMU RS04260 WP 002263294.1	VIFTIVSSTITVIGPDRLKEMTDTMTKG....LAGKID....LDKIGEIALTLALLYFAGALVSYTASFI	88
NTDB id 358 SMU RS01425 WP 002263523.1	IIASLIVTLIDIVGSYYLQGILDE.....YIPDQLIS..TLGMITIGLIITYIIQQVMAFAKEYL	273
NTDB id 421 SGO RS10260 WP 012131060.1	VLATLLVTLINIVGSYYLQSIIDT.....YVPDHMKT..TLGMISIGLIIVYILQQFLSYAQEYL	229
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NTDB id 131 SP RS00255 WP 000668284.1	VLATLLVTVINIVGSYYLQSIIDT.....YVPDQMRS..TLGIISIGLVIVYIFQQILSYAQEYL	229
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NTDB id 369 SMU RS04255 WP 002263293.1	C....LAVWMDLKTPEYMSNITTLLQTK.....GTTASDIMDPGSKMLMFSFGSF.....	69
consensus		

logo

NTDB id 429 SGO RS09420 WP 012130942.1
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NTDB id 369 SMU RS04255 WP 002263293.1
consensus

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NTDB id 206 SPD RS00235 WP 000668290.1
NTDB id 171 SPR RS00230 WP 000668290.1
NTDB id 131 SP RS00255 WP 000668284.1
NTDB id 56445 HOI88 RS06575 WP 095558980.1
NTDB id 369 SMU RS04255 WP 002263293.1
consensus

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NTDB	id 295	STER RS06915 WP 011226304.1		0
NTDB	id 435	SGO RS09490 WP 012130955.1		0
NTDB	id 473	HSISS4 RS07770 WP 021143710.1		0
NTDB	id 481	STER RS07730 WP 002951673.1		0
NTDB	id 479	HSISS4 RS06980 WP 021143812.1		0
NTDB	id 328	STU RS16110 WP 002951426.1		0
NTDB	id 296	STER RS06910 WP 011681415.1		0
NTDB	id 1219	C694 RS00105 WP 000890508.1	TKRLSMQKFALNILIKA.PSLEN.LDAQTS..LVLGLLFFK.....EN..LVGV.IE.....TF.....GLKGGYFSFFPER	369
NTDB	id 370	SMU RS04260 WP 002263294.1	FENLNDQLFASMWKSQFFSGIMMPLMQFIGNFGYVMVCIVGATMAINGDITMGTIVA.....FMTYVRIFTQP	297
NTDB	id 358	SMU RS01425 WP 002263523.1	IDSEFVDYLEKNFKLHKYSIAIQTALKSGAKLILNVVILWYGSRLVMDNKKISVGQLIT.....FNALLSYFSNP	481
NTDB	id 421	SGO RS10260 WP 012131060.1	IDKEFVTYLLKKSFAYGSRSESLQKVLKAAARLILNVLLWLGLATLVMDQKISLGLIT.....YNTLLVYFTNP	437
NTDB	id 511	SMSK321 RS10730 WP 000668322.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 483	SM12261 RS00275 WP 000668315.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 247	KZH43 RS00220 WP 000668290.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 206	SPD RS00235 WP 000668290.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 171	SPR RS00230 WP 000668290.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 131	SP RS00255 WP 000668284.1	IDKEFVDYLLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLIT.....YNTLLVYFTNP	437
NTDB	id 56445	H0188 RS06575 WP 095558980.1		0
NTDB	id 369	SMU RS04255 WP 002263293.1	FKRENKNLTKLNLLVYRLMSLMNPVMTVVSSGLTLAIYWIGAYLLNDIKIPMTSVTAAKGAIADRI.....SVFSDMVVFSSYA	298
consensus				

NTDB	id	429	SGO	RS09420	WP	012130942.1	RFIQTDFDQLAAVISHFKFLAGMNVGEKRRSQLGSCDYRYDDKETSIRLSTVGDYRGYES	VIRLLHDEETELKFWFTHFPE	R	125
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NTDB	id	327	STU	RS16115	WP	011226304.1	MTE.....NKNVILSARDIVVEFDVRDR	VLTAIRGVS		32
NTDB	id	295	STER	RS06915	WP	011226304.1	MTE.....NKNVILSARDIVVEFDVRDR	VLTAIRGVS		32
NTDB	id	435	SGO	RS09490	WP	012130955.1	MRYITVENLSFYDK.....E	PVLEH	I	23
NTDB	id	473	HSISS4	RS07770	WP	021143710.1	MLKLEKVTGGYA.....NIPVLKDV	T		21
NTDB	id	481	STER	RS07730	WP	002951673.1	MLKLEKVTGGYA.....NIPVLKDV	T		21
NTDB	id	479	HSISS4	RS06980	WP	021143812.1	MPEKLEVKDVEISFGEGRK.....KFAVHNAN			29
NTDB	id	328	STU	RS16110	WP	002951426.1	MPEKLEVKDVEISFGEGRK.....KFAVHNAN			29
NTDB	id	296	STER	RS06910	WP	011681415.1	MPEKLEVKDVEISFGEGRK.....KFAVHNAN			29
NTDB	id	1219	C694	RS00105	WP	000890508.1	I.HLNH...R.....LRFLTskALACLMVFER..QNLGFKANSWGNsPLSVFKNLDYSPFLNFHN..Q.....E.VSHKNAK			433
NTDB	id	370	SMU	RS04260	WP	002263294.1	I.AQ.....IAQGITQLQSANAAMGRVFEFLDEEEIEDENHKVKQLEKVEGNVFDNVFFGYSPD.K.....T.IIH.DFS			364
NTDB	id	358	SMU	RS01425	WP	002263523.1	I.EN.....IINLQSKLQsARVANtrLNEVYLVESEFEKDGdLSEnsFLDGDIsFENLSYKYGfG.R.....D.TLS.DIN			548
NTDB	id	421	SGO	RS10260	WP	012131060.1	L.EN.....IINLQTKLQsARVANtrLNEVYLvKSEFEeKKIKdLSHFQADIDfRGVSyKYGYG.A.....N.VLS.ED			504
NTDB	id	511	SMSK321	RS10730	WP	000668322.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvTSEFEeKKtVEDLSLMKGMdTFKQVYKYGYG.R.....D.VLS.DIN			504
NTDB	id	483	SM12261	RS00275	WP	000668315.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvASEFEeKKtVEDLSLMKGMdTFKQVSYKYGYG.R.....D.VIL.DIN			504
NTDB	id	247	KZH43	RS00220	WP	000668290.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvASEFEeKKtVEDLSLMKGMdTFKQVHYKYGYG.R.....D.VLS.DIN			504
NTDB	id	206	SPD	RS00235	WP	000668290.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvASEFEeKKtVEDLSLMKGMdTFKQVHYKYGYG.R.....D.VLS.DIN			504
NTDB	id	171	SPR	RS00230	WP	000668290.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvASEFEeKKtVEDLSLMKGMdTFKQVHYKYGYG.R.....D.VLS.DIN			504
NTDB	id	131	SP	RS00255	WP	000668284.1	L.EN.....IINLQTKLQTAQVANNrLNEVYLvASEFEeKKtVEDLSLMKGMdTFKQVHYKYGYG.R.....D.VLS.DIN			504
NTDB	id	56445	HO188	RS06575	WP	095558980.1				0
NTDB	id	369	SMU	RS04255	WP	002263293.1	M.QVVV...GFMMMVaIFiILPRALvSAKRINEVLALNssVHFKEYSKADNARKGEVfHDVSFRYSKNSR.....A.VIE.HVS			372
consensus							* * * * *	* * * *		

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NTDB	id	478	HSISS4 RS06985 WP 021143811.1	LDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGR.....	VASGSIDYRKQDITKLKSHQDWAHIRGAKIATIFQDPMTSLDP		110
NTDB	id	327	STU RS16115 WP 011226304.1	LDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGR.....	VASGSIDYRKQDITKFKSHQDWAIRGAKIATIFQDPMTSLNP		110
NTDB	id	295	STER RS06915 WP 011226304.1	LDLVEGEVLALVGESGSGKSVLTKTFTGMLEENGR.....	VASGSIDYRKQDITKFKSHQDWAIRGAKIATIFQDPMTSLNP		110
NTDB	id	435	SGO RS09490 WP 012130955.1	YFLDSGEFVTLTTCENCAAKTTLIKASTIGIL.....	QPKHCEVKTSKINTQG.....KKLR	IAYLPQIIASFNAG	87
NTDB	id	473	HSISS4 RS07770 WP 021143710.1	FEVADGELVGLIGLNAGKSTTINEIIGLL.....	TPYGQQAIDGLTIQQ.....DP.ASYRQKI	GYIPETPSLYEEL	89
NTDB	id	481	STER RS07730 WP 002951673.1	FEVADGELVGLIGLNAGKSTTINEIIGLL.....	TPYGQQAIDGLTIQQ.....DP.ASYRQKI	GYIPETPSLYEEL	89
NTDB	id	479	HSISS4 RS06980 WP 021143812.1	FFINKGETFSLVGESGSGKTTIGRAIIGLN.....	DTSNGEIFDGKKINGHLSHSEK.NDLIRR	IQMIFQDPAASLNE	102
NTDB	id	328	STU RS16110 WP 002951426.1	FFINKGETFSLVGESGSGKTTIGRAIIGLN.....	DTSNGEIFDGKKINGYLSHSEK.NDLIRR	IQMIFQDPAASLNE	102
NTDB	id	296	STER RS06910 WP 011681415.1	FFINKGETFSLVGESGSGKTTIGRAIIGLN.....	DTSNGEIFDGKKINGYLSHSEK.NDLIRR	IQMIFQDPAASLNE	102
NTDB	id	1219	C694 RS00105 WP 000890508.1	EIARVNGHTLIIGATGSGKSTLISFLMMSALKYQNMRLLAF	DRMQCLYSFTKFFKGH.Y...H..DGQSFS	INPFCLEPNIQNLE	512
NTDB	id	370	SMU RS04260 WP 002263294.1	AHAKAQKQIAIVGPITGACKTTIVNLLMRFY.....	BVDRCMTSIDGVNTHD.M...TR.KEVHDAFAMVLQDTWLFEGT		433
NTDB	id	358	SMU RS01425 WP 002263523.1	LSIKKGGSKVSLV GASGSKTTLAKLMVNFI.....	EPNKGIIVRINGNDLKVI.I...DK.TALRRHI	SYLPQQPYVFSGS	617
NTDB	id	421	SGO RS10260 WP 012131060.1	LHIPAGSKTSFVGVSGSGKTTLAKMMVNFY.....	APNQGDICLGGVNLNQ.L...DK.QALRQY	INYLPQQPYVFNGT	573
NTDB	id	511	SMSK321 RS10730 WP 000668322.1	LTIPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGGVNLNQ.I...DK.KALRQY	INYLPQQPYVFNGT	573
NTDB	id	483	SM12261 RS00275 WP 000668315.1	LTIPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGGVNLNQ.I...DK.KALRQY	INYLPQQPYVFNGT	573
NTDB	id	247	KZH43 RS00220 WP 000668290.1	LTVPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGGVNLNQ.I...DK.KALRQY	INYLPQQPYVFNGT	573
NTDB	id	206	SPD RS00230 WP 000668290.1	LTVPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGGVNLNQ.I...DK.KALRQY	INYLPQQPYVFNGT	573
NTDB	id	171	SPR RS00230 WP 000668290.1	LTVPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGGVNLNQ.I...DK.KALRQY	INYLPQQPYVFNGT	573
NTDB	id	131	SP RS00255 WP 000668284.1	LTVPQGSKVAFVGISGSGKTTLAKMMVNFY.....	DPSQGEISLGSVNLNQ.I...DK.KALRQY	INYLSQQPYVFNGT	573
NTDB	id	56445	H0188 RS06575 WP 095558980.1	MVGAAGSGKSTLINLILRFY.....	GVQMCEV.....		27
NTDB	id	369	SMU RS04255 WP 002263293.1	FSAKAGETVAFIGTSGSGKSTLVNLIIPRFY.....	DATEGWKIDGIKVQD.Y...SH.DDLNNK	VGYIPQRAVLFSGT	441
consensus				* * **** ! * ! * ! * * *	* * * * * * * *		

NTDB	id	429	SGO	RS09420	WP	012130942.1	HRPDL	LII	GEIRDSETARAVVRASLTGATV	FST	I	HA...	KS	IPGVY	ERLLELGVSEEE	..	LKIVLQ	GICYQR	LIG		267																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NTDB	id	478	HSISS4	RS06985	WP	021143811.1	IKTIGSQ	I	VEV.....	IVKHQ	GKSAKEAKKM...	AI	DY	MDKVG	IPDAE	KRFNEY	PFQY	SGGMR	QR	IV	I	AI	AL	ACRPD	179																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB	id	327	STU	RS16115	WP	011226304.1	IKTIGSQ	I	IEV.....	IVKHQ	GKTAKEAKKM...	AI	DY	MDKVG	IPDAE	KRFNEY	PFQY	SGGMR	QR	IV	I	AI	AL	ACRPD	179																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB	id	295	STER	RS06915	WP	011226304.1	IKTIGSQ	I	IEV.....	IVKHQ	GKTAKEAKKM...	AI	DY	MDKVG	IPDAE	KRFNEY	PFQY	SGGMR	QR	IV	I	AI	AL	ACRPD	179																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
NTDB	id	435	SGO	RS09490	WP	012130955.1	FPSTVY	E	FKS.....	GRYP	RKG...WFR	RI	NEHDEEH	KAS	LES...	VG	MWEHR	DRK	IGSL	SGGQ	K	Q	R	A	V	I	ARMFASDPD	157																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	473	HSISS4	RS07770	WP	021143710.1	TLREH	L	ETVLM.....	AYGLD	VTEG	MVR.A...	D...	KYLKL	FRL	DEK	L	DW	FPT	QF	SKGM	K	Q	K	V	M	I	ICAF	I	V	N	P	S	152																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	481	STER	RS07730	WP	002951673.1	TLREH	L	ETVLM.....	AYGLD	VTEG	MAR.A...	D...	KYLKL	FRL	DEK	L	DW	FPT	QF	SKGM	K	Q	K	V	M	I	ICAF	I	V	N	P	S	152																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	479	HSISS4	RS06980	WP	021143812.1	RATVDY	I	LSE.....	GL..	HN	FHY	KDEED	RKAK	I	K	I	E	KEV..	GL	LEE	H	L	T	R	P	H	E	F	SGGQ	R	Q	R	I	G	I	AR	S	L	V	M	Q	P	D	170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
NTDB	id	328	STU	RS16110	WP	002951426.1	RATVDY	I	LSE.....	GL..	YN	FHY	KDEEE	RKAK	I	K	E	I	E	KEV..	GL	LEE	H	L	T	R	P	H	E	F	SGGQ	R	Q	R	I	G	I	AR	S	L	V	M	Q	P	D	170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	296	STER	RS06910	WP	011681415.1	RATVDY	I	LSE.....	GL..	YN	FHY	KDEEE	RKAK	I	K	E	I	E	KEV..	GL	LEE	H	L	T	R	P	H	E	F	SGGQ	R	Q	R	I	G	I	AR	S	L	V	M	Q	P	D	170																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	1219	C694	RS00105	WP	000890508.1	F	L	QSFF	L	SMF.....	DLAP	SRD	KEA	LED	M	NA	ISSA	I	K	S	L	Y	E	T	L	P	K	A	F	S	L	L	D..	F	K	E	T	L	K	R	T	S	S	N	Q	L	G	L	S	L	E	P	Y	L	N	N	P	L	584																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	370	SMU	RS04260	WP	002263294.1	V	.	K	E	N	L	I	Y	N	Q	K.....	HIT...	DEQ	V	I	A	A	A	K	A..	V..	G	V	H	H	F	I	K	T..	L	P	K	G	Y	D	T	V	L..	D	D	S	V	T	L	S	V	G	Q	K	L	L	T	I	.	AR	A	L	L	K	D	A	P	499																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NTDB	id	358	SMU	RS01425	WP	002263523.1	I	.	M	D	N	L	V	L	G	A	K.....	EGTSQ..	ED	I	R	A	C	E	I	A..	E	I	R	S	D	I	E	Q..	M	P	Q	Y	Q	T	E	L..	S	D	G	A	I	SGGQ	K	R	I	A	L	.	AR	A	L	L	T	Q	A	P	684																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB	id	421	SGO	RS10260	WP	012131060.1	I	.	L	E	N	L	L	L	G	A	R.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	S	D	I	E	R..	M	P	L	N	Y	Q	T	E	L.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB	id	511	SMSK321	RS10730	WP	000668322.1	I	.	L	E	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	483	SM12261	RS00275	WP	000668315.1	I	.	L	D	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	247	KZH43	RS00220	WP	000668290.1	I	.	L	E	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	206	SPD	RS00235	WP	000668290.1	I	.	L	E	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	171	SPR	RS00230	WP	000668290.1	I	.	L	E	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	131	SP	RS00255	WP	000668284.1	I	.	L	E	N	L	L	L	G	A	K.....	EGTTQ..	ED	I	L	R	A	V	E	L.A..	E	I	R	E	D	I	E	R..	M	P	L	N	Y	Q	T	E	L	.	S	D	G	A	I	SGGQ	R	Q	R	I	A	L	.	AR	A	L	L	T	D	A	P	641																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	56445	H0188	RS06575	WP	095558980.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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NTDB id 429 SGO RS09420 WP 012130942.1	VLILDEATSSLDILTEK	G.	268
NTDB id 478 HSISS4 RS06985 WP 021143811.1	VLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSS	VIFITHTDLGVVASIADK	229
NTDB id 327 STU RS16115 WP 011226304.1	VLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSS	VIFITHTDLGVVASIADK	229
NTDB id 295 STER RS06915 WP 011226304.1	VLICDEPTTALDVTIQAQIIDLLKSLKEEYGFSS	VIFITHTDLGVVASIADK	229
NTDB id 435 SGO RS09490 WP 012130955.1	IFVLDEPTTGM DAGSKDEFYKLMHHSAHKHGKA	VLMITHTDPEEVKKYADR	207
NTDB id 473 HSISS4 RS07770 WP 021143710.1	LFIVDEPFGLDPLAISDLIELLAEEKA.K	ILMSTHVLDSAEKMCDR	201
NTDB id 481 STER RS07730 WP 002951673.1	LFIVDEPFGLDPLAISDLIELLAEEKA.N	ILMSTHVLDSAEKMCDR	201
NTDB id 479 HSISS4 RS06980 WP 021143812.1	LVIADDEPISALDVSVRAQVLNLLKKFQKELGLT	YLFIAHDL SVVRFISDR	220
NTDB id 328 STU RS16110 WP 002951426.1	LVIADDEPISALDVSVRAQVLNLLKKFQKELGLT	YLFIAHDL SVVRFISDR	220
NTDB id 296 STER RS06910 WP 011681415.1	LVIADDEPISALDVSVRAQVLNLLKKFQKELGLT	YLFIAHDL SVVRFISDR	220
NTDB id 1219 C694 RS00105 WP 000890508.1	FNALNDAFNSNAFLNVINLD.TITQNPKD LGLLAYYLFYKILEESRKNDSGFLVFLDEFKSYVENDLLNTKINALITQARK.ANG		667
NTDB id 370 SMU RS04260 WP 002263294.1	LLILDEATSSVDRTEE...LIQRA...M	DHLMEGRTS...FVIAHRLSTIRN.ADL	546
NTDB id 358 SMU RS01425 WP 002263523.1	VLILDEATSSLDILTEK...KIISN...L	LQMT.EKTI...IFVAHRLSTISQR.TDE	730
NTDB id 421 SGO RS10260 WP 012131060.1	VLILDEATSSLDILTEK...RIIDN...L	MVL.DKTI...IFIAHRLTIAER.SEQ	686
NTDB id 511 SMSK321 RS10730 WP 000668322.1	ILILDEATSSLDILTEK...RIVDN...L	MAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 483 SM12261 RS00275 WP 000668315.1	VLILDEATSSLDILTEK...RIVDN...L	MAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 247 KZH43 RS00220 WP 000668290.1	VLILDEATSSLDILTEK...RIVDN...L	IAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 206 SPD RS00235 WP 000668290.1	VLILDEATSSLDILTEK...RIVDN...L	IAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 171 SPR RS00230 WP 000668290.1	VLILDEATSSLDILTEK...RIVDN...L	IAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 131 SP RS00255 WP 000668284.1	VLILDEATSSLDILTEK...RIVDN...L	IAL.DKTL...IFIAHRLTIAER.TEK	686
NTDB id 56445 HOI88 RS06575 WP 095558980.1			27
NTDB id 369 SMU RS04255 WP 002263293.1	ILIFDSDFSALDYKTDR...ILRND...L	AKKTKEMTK...LIVAQRISTIMD.ADH	558
consensus	***** ** *** *	***** *** **	

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NTDB id 429 SGO RS09420 WP 012130942.1	WVLDQKIVEG	GGVIDFAS	278
NTDB id 478 HSISS4 RS06985 WP 021143811.1	VAVMYAGEIIEYATVEEIFYEPCHPYTWSLLSSLPQLADDK...G.E...LFSIPGTPPSL...YTPVVG...DAF	DN	292
NTDB id 327 STU RS16115 WP 011226304.1	VAVMYAGEIIEYATVEEIFYEPCHPYTWSLLSSLPQLADDN...G.K...LFSIPGTPPSL...YTPVVG...DAF		292
NTDB id 295 STER RS06915 WP 011226304.1	VAVMYAGEIIEYATVEEIFYEPCHPYTWSLLSSLPQLADDN...G.K...LFSIPGTPPSL...YTPVVG...DAF		292
NTDB id 435 SGO RS09490 WP 012130955.1	NTHLVRNQDSP...WRCFNV	HESDNGQEVSHA	236
NTDB id 473 HSISS4 RS07770 WP 021143710.1	FVILHHGQVLAQGTLEELRQTFGD		225
NTDB id 481 STER RS07730 WP 002951673.1	FVILHHGQILAQGTIDELRQTFGD		225
NTDB id 479 HSISS4 RS06980 WP 021143812.1	IAVIYKGTIVEVAETEELYNMPIHPYTKSLLSAVP...IP	DPILERKKVKLVYDPN...	273
NTDB id 328 STU RS16110 WP 002951426.1	IAVIYKGTIVEVAETEELYNMPIHPYTKSLLSAVP...IP	DPILERKKVKLVYDPN...	273
NTDB id 296 STER RS06910 WP 011681415.1	IAVIYKGTIVEVAETEELYNMPIHPYTKSLLSAVP...IP	DPILERKKVKLVYDPN...	273
NTDB id 1219 C694 RS00105 WP 000890508.1	VVVLALQDIYQLSG	VKNAHSFLSNMGTLILYPQKNARELKHNFNVPVLPSETETISFLENTPLYARQVLVKNLNGSSN	743
NTDB id 370 SMU RS04260 WP 002263294.1	ILVMRDGNIIEQGS	H	561
NTDB id 358 SMU RS01425 WP 002263523.1	VIVMDQGKIVEQGT	H	745
NTDB id 421 SGO RS10260 WP 012131060.1	VVVLQGRIVESGS	H	701
NTDB id 511 SMSK321 RS10730 WP 000668322.1	VVVLNQGKIVEEGK	H	701
NTDB id 483 SM12261 RS00275 WP 000668315.1	VVVLQGKIVEEGN	H	701
NTDB id 247 KZH43 RS00220 WP 000668290.1	VVVLQGKIVEEGK	H	701
NTDB id 206 SPD RS00235 WP 000668290.1	VVVLQGKIVEEGK	H	701
NTDB id 171 SPR RS00230 WP 000668290.1	VVVLQGKIVEEGK	H	701
NTDB id 131 SP RS00255 WP 000668284.1	VVVLQGKIVEEGK	H	701
NTDB id 56445 HOI88 RS06575 WP 095558980.1			27
NTDB id 369 SMU RS04255 WP 002263293.1	ILVLQGKVVGQCT	H	573
consensus	**** * *** *	*	

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NTDB id 429 SGO RS09420 WP 012130942.1	YQEHEPTVWNQQIDQLLAAGHIHPEQAEEAEKIRNQQAKT....SY.....	319
NTDB id 478 HSISS4 RS06985 WP 021143811.1	ALRSDYAMQIDFEEKAP.....QFQVSDTHWAKTWLLHED....APKVEKPAVIQNLHEKIRANMGMFAHLGDEEEGN	360
NTDB id 327 STU RS16115 WP 011226304.1	ALRSDYALQIDFEEKAP.....QFQVSDTHWAKTWLLHED....APKVDKPAVIQNLHEKILANMGMFAHLGDEEEGN	360
NTDB id 295 STER RS06915 WP 011226304.1	ALRSDYALQIDFEEKAP.....QFQVSDTHWAKTWLLHED....APKVDKPAVIQNLHEKILANMGMFAHLGDEEEGN	360
NTDB id 435 SGO RS09490 WP 012130955.1	DSASLNDIY.MQ.LTKGELS.....	236
NTDB id 473 HSISS4 RS07770 WP 021143710.1	...SSASLNDIY.MQ.LTKGELS.....	243
NTDB id 481 STER RS07730 WP 002951673.1	QH.DYSVDKPEMVEV...RPGHFVWGNKAEIETY...RKEQSK.....	243
NTDB id 479 HSISS4 RS06980 WP 021143812.1	QH.DYSVDKPEMVEV...RPGHFVWGNKTEIETY...RKEQSK.....	309
NTDB id 328 STU RS16110 WP 002951426.1	QH.DYSVDKPEMVEV...RPGHFVWGNKTEIETY...RKEQSK.....	309
NTDB id 296 STER RS06910 WP 011681415.1	QH.DYSVDKPEMVEV...RPGHFVWGNKTEIETY...RKEQSK.....	309
NTDB id 1219 C694 RS00105 WP 000890508.1	MIDVSLESLSGRV.LK.IFNSDSSHVSKVKALQKDYPTEWREKLLRS.....	787
NTDB id 370 SMU RS04260 WP 002263294.1	..DQLMAENGFY.AD.LYNSQFTEEVA.....	584
NTDB id 358 SMU RS01425 WP 002263523.1	..KELLAKQGFY.YN.LFN.....	760
NTDB id 421 SGO RS10260 WP 012131060.1	..KELIEREGFY.HH.LVNS.....	717
NTDB id 511 SMSK321 RS10730 WP 000668322.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 483 SM12261 RS00275 WP 000668315.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 247 KZH43 RS00220 WP 000668290.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 206 SPD RS00235 WP 000668290.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 171 SPR RS00230 WP 000668290.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 131 SP RS00255 WP 000668284.1	..ADLLAQGGFY.AH.LVNS.....	717
NTDB id 56445 HOI88 RS06575 WP 095558980.1	IAYSQLSKEELENGK.....	27
NTDB id 369 SMU RS04255 WP 002263293.1	..KELLANNDIY.QE.IAYSQLSKEELENGK.....	600
consensus	*.....*	

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NTDB id 429 SGO RS09420 WP 012130942.1	.	319
NTDB id 478 HSISS4 RS06985 WP 021143811.1	A	361
NTDB id 327 STU RS16115 WP 011226304.1	A	361
NTDB id 295 STER RS06915 WP 011226304.1	A	361
NTDB id 435 SGO RS09490 WP 012130955.1	.	236
NTDB id 473 HSISS4 RS07770 WP 021143710.1	.	243
NTDB id 481 STER RS07730 WP 002951673.1	.	243
NTDB id 479 HSISS4 RS06980 WP 021143812.1	.	309
NTDB id 328 STU RS16110 WP 002951426.1	.	309
NTDB id 296 STER RS06910 WP 011681415.1	.	309
NTDB id 1219 C694 RS00105 WP 000890508.1	.	787
NTDB id 370 SMU RS04260 WP 002263294.1	.	584
NTDB id 358 SMU RS01425 WP 002263523.1	.	760
NTDB id 421 SGO RS10260 WP 012131060.1	.	717
NTDB id 511 SMSK321 RS10730 WP 000668322.1	.	717
NTDB id 483 SM12261 RS00275 WP 000668315.1	.	717
NTDB id 247 KZH43 RS00220 WP 000668290.1	.	717
NTDB id 206 SPD RS00235 WP 000668290.1	.	717
NTDB id 171 SPR RS00230 WP 000668290.1	.	717
NTDB id 131 SP RS00255 WP 000668284.1	.	717
NTDB id 56445 HOI88 RS06575 WP 095558980.1	.	27
NTDB id 369 SMU RS04255 WP 002263293.1	.	600
consensus		

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 similar
 $\geq 50\%$ conserved