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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA . ANQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGERKALDDALKNIEKDFGKGAVMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGERKALDDALKNIEKDFGKGAVMRLGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDI ALGIGGYPRGR	58
NTDB id 401227 GJS00 RS10245 WP 003641504.1	.....MADARKAALDTALKKIEKNFGKGAIMRMGDA. AQTTISTISSGSLALDDALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK. VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM SQIEKAFGKGSIMKLGAE. SKLDVQVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK. EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK. QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK. QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT. EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K. KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA. EVEPVQVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQIEKQFGKGAVMRMGDH. DRQAIPSI STGSLGLDI ALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS KALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
consensus	*** ** * **! *!***** * **!!*!!*!!*!!*!!*!!*!!*!!	





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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGK	ITK	IKVV	KNKV	VAPP	PFKE	VAL	VDIM	F	GEGIS	STGEL	NI	A	VEEG	I	TKK	S	G	A	W	F	A	Y	N	312																														
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AFV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AFV	VEIM	Y	GEGIS	KTGEL	L	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																											
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGK	ETK	IKVV	KNKV	VAPP	PFKE	AVV	VEIM	Y	GEGIS	R	T	GEL	V	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																									
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGK	ETK	IKVV	KNKV	VAPP	PFKE	AFV	VEIM	Y	GEGIS	R	T	GEL	V	K	I	A	S	D	L	D	I	TKK	A	G	A	W	S	Y	311																									
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVR	RAEQLKQGN	....DV	MGN	TKK	IKVV	KNKV	VAPP	FR	TAE	VDIM	Y	GEGIS	K	E	G	E	T	I	D	L	G	T	E	L	D	I	V	Q	K	S	G	S	W	S	Y	292																					
NTDB id 401227	GJS00	RS10245	WP 003641504.1	TIRLEVR	RAEIQIKGT	....NI	IGN	R	V	R	IKVV	KNKV	VAPP	FK	RAE	VDIM	Y	G	Q	G	I	S	Q	T	G	E	I	V	D	M	A	A	E	K	D	I	V	Q	K	S	G	S	W	S	Y	293															
NTDB id 625	LCA	RS02525	WP 011374196.1	TIRLEVR	RAEITIKNGT	....DM	IGN	R	A	R	IKVV	KNKV	VAPP	FK	RAE	VDIM	Y	G	Q	G	I	S	R	T	G	E	L	V	D	M	A	V	E	K	D	I	V	Q	K	S	G	S	W	S	Y	294															
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVR	KIGQ....	PTKVG	NDA	V	A	N	T	V	K	N	K	V	A	A	P	F	K	E	V	E	L	A	L	V	Y	G	K	G	F	D	Q	L	S	D	L	V	G	L	A	A	D	M	I	TKK	A	G	S	F	Y	S	Y	307					
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVR	KVAT....	L.KQNE	EP	IGN	R	V	V	V	KNKV	VAPP	FR	QAE	F	D	V	M	F	G	E	L	S	R	E	G	E	L	I	D	I	G	V	K	L	D	I	V	D	K	S	G	A	W	F	S	Y	294												
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIR	RIAS....	L.KQNE	QHG	IGN	R	A	K	IKVV	KNKV	VAPP	FR	EA	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	T	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	296									
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIR	RIAA....	L.KQNE	QHG	IGN	R	A	K	IKVV	KNKV	VAPP	FR	EA	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	T	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	296									
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIR	RSLS	DTGK	IKDK	S	GEV	IGN	R	T	K	V	V	KNKV	VAPP	FK	S	A	E	F	D	I	M	Y	G	E	G	V	S	K	V	G	E	I	L	D	V	A	T	D	L	D	I	TKK	S	G	S	W	F	S	Y	307							
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIR	RCGV....	V.KGD	DEI	IG	S	E	T	K	V	V	KNKV	VAPP	FR	E	V	Q	F	D	I	M	Y	G	E	G	I	S	R	M	N	E	L	L	I	L	A	E	A	N	G	F	I	TKK	S	G	A	W	F	S	Y	310							
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	L	G	N	E	T	R	V	K	V	I	K	N	V	A	P	P	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	TKK	S	G	A	W	S	Y	294		
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	L	G	N	E	T	R	V	K	V	I	K	N	V	A	P	P	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	TKK	S	G	A	W	S	Y	294		
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIR	RTGS....	I.KKG	EEV	L	G	N	E	T	R	V	K	V	I	K	N	V	A	P	P	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	I	D	I	G	V	K	N	D	I	TKK	S	G	A	W	S	Y	294		
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIR	RIGS....	I.KKG	DEV	V	G	N	E	T	K	V	V	KNKV	VAPP	FR	E	A	I	F	D	I	L	Y	G	A	G	V	S	R	E	G	E	I	D	L	G	V	E	A	K	V	V	E	K	S	G	A	W	S	Y	302							
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEV	V	G	N	E	T	R	I	K	V	V	KNK	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIR	RTGA....	I.KEG	EEV	V	G	N	E	T	R	I	K	V	V	KNK	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	I	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIR	RTGA....	V.KEG	DEV	V	G	S	E	T	R	V	K	V	KNKV	VAPP	FR	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	A	Y	K	293						
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIR	RIGQ....	V.KEG	DEI	IG	S	E	T	K	V	V	KNK	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	N	I	V	Q	K	A	G	A	W	S	Y	293			
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIR	RIGQ....	V.KEG	DEI	V	G	S	E	T	K	V	V	KNK	M	A	P	P	F	K	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D	I	V	Q	K	A	G	A	W	S	Y	293		

consensus

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NTDB id 600	KW2	RS01765	WP 011675413.1	DEKIGQGA	EKAKNYLKEHQ	DVFD	DEIDHKVRAAHG	LLDDSEVAETE	EEETTAS	TKTA	.....	KAKKEEKAVETEEI	EL	383		
NTDB id 269	KZH43	RS08665	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QD	TENKKDE	.....	PKKEEA	..VNEEVPL	376		
NTDB id 228	SPD	RS09265	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QD	TENKKDE	.....	PKKEEA	..VNEEVPL	376		
NTDB id 194	SPR	RS08825	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QD	TENKKDE	.....	PKKEEA	..VNEEVPL	376		
NTDB id 159	SP	RS09750	WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFG	LIDGEEVSE	QD	TENKKDE	.....	PKKEEA	..VNEEVPL	376		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	DEKIGQGS	ENAKKYLADN	PEVFAE	IDHQVVRVQFGL	LIDGEEAAE	...	SKKDE	.....	VAQVDS	..VNEEVTL	372		
NTDB id 499	SM12261	RS08315	WP 078228268.1	DEKIGQGS	ENAKKYLADN	PEIF	DEIDHQVVRVQFGL	LIDGEEIAE	...	SKKDE	.....	AAQVDS	..VNEEVTL	372		
NTDB id 453	Spy49	1753c	ACI62003.1	GEKIGQGS	ENAKRYLADHP	QLF	DEIDRKRVRVQFGL	LEESEEE	SAMAVASE	.....	E	.....	TDDLAL	368		
NTDB id 408	SMU	RS09530	WP 002262392.1	GEKIGQGS	ENAKKFLADN	PEIF	DDIDHKVVRVQYGL	IEEDNTEEK	QSSKEK	.....	ETDEK	..ADKNLVL	373			
NTDB id 115	BSU	16940	NP 389576.2	EEERLGG	RENAAKQFL	KENKDIMLMI	IQEQIREHYGL	DNNGVVQQ	QAETQEELEFEE	.....	.....	.....	348			
NTDB id 401227	GJS00	RS10245	WP 003641504.1	DDRIGQG	RENAAKYLDEHP	DMTE	IRQKVRDAYGMD	ATGEETSET	DDQAK	..EAKDKGTAKNGSKGQSKSTKATPAETAL	.....	.....	371			
NTDB id 625	LCA	RS02525	WP 011374196.1	SERIGQG	RENAAKNYLADH	EDVE	DEVRLKVR	AAAYG	ISDVPEEDLPTTEDE	QINILPDDSTEE	.....	.....	355			
NTDB id 1313	DR	RS12030	WP 010888966.1	DERIGQG	KEKTIAYIA	ERP	PEMEQEIRDRV	MAAIRAGNAGE	APALAPAPAAPEAAE	.....	.....	A	363			
NTDB id 1245	Cj1673c	YP 002345041.1		DKKLGQG	RENSKAF	LKENPEIA	DEITKAIQNSMG	TEGMI	....SG	SEDDE	..GE	.....	E	343		
NTDB id 1211	C694	RS00795	WP 000963128.1	DKKLGQG	RENAAKALLKED	KALADEITL	KIKESIGS	NEEI	....MPL	PDEP	..LE	.....	EM	346		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	DKKLGQG	RENAAKALLKED	KALADEITL	KIKESIGS	NEEI	....MPL	PDEP	..LE	.....	EM	346		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	DTKLGQGR	DTVKELIK	DNPELA	EELAK	IREKLQAK	.....	.....	.....	.....	343			
NTDB id 1389	A4U84	RS07560	WP 021112712.1	GTKIGQG	KNNAVKWL	KENPEIAD	KLEQEIRNTL	ASNPN	....VL	KATASDSND	.....	.....	ES	362		
NTDB id 1130	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEIS	DEIDAKIRAL	NGVEMHI	....TEGT	.....Q	.....	.....	DE	340		
NTDB id 1124	NGFG	RS03960	WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEIS	DEIDAKIRAL	NGVEMHI	....TEGT	.....Q	.....	.....	DE	340		
NTDB id 1123	OK783	RS03845	WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEIS	DEIDAKIRAL	NGVEMHI	....TEGT	.....Q	.....	.....	DE	340		
NTDB id 1427	RS	RS02760	WP 011000510.1	GERIGQGR	DNCREFL	RENAELARE	EIENKVREHL	GVTPMG	....AV	TLAEEVEE	.....	.....	D	352		
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	GDKIGQG	KANACKYL	KENPEIAKT	LDKKLREMLLN	PENM	....QL	IAETSSAAD	.....	.....	DV	345		
NTDB id 1142	GTF74	RS11550	WP 000344154.1	GDKIGQG	KANACKYL	KENPEIAKT	LDKKLREMLLN	PENM	....QL	IAETSSAAD	.....	.....	DV	345		
NTDB id 1205	PSJM300	05545	AFN77183.1	GSKIGQG	KANAACKYLEEN	PEIG	EIEQQ	IRAKLL	VTSAN	....TKATPVAEDLA	.....	.....	DA	345		
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	GNKIGQG	KNNVIRY	LEENP	QISTEIEAV	IREQLLTK	ASD	....QTAA	..HDETEE	.....	EP	344		
NTDB id 1074	ABD1	RS10195	WP 000344167.1	GNKIGQG	KNNVIRY	FEENN	QIAE	EIERN	IREQLLTT	GTN	....GAVQ	..I	EDEE	.....	EP	343
consensus				**!!!***** ** * *** ***** ** **												

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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	ELED.....	387
269	KZH43 RS08665 WP 001085462.1	DLGDELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DLGDELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DLGDELEIEIEE	388
159	SP RS09750 WP 001085462.1	DLGDELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DLGDELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DLGDELEIEIEE	384
453	Spy49 1753c ACI62003.1	DLDNIEIED..	378
408	SMU RS09530 WP 002262392.1	ELDDTIELED..	383
115	BSU 16940 NP 389576.2	.....	348
401227	GJS00 RS10245 WP 003641504.1	DLGDQPTEK...	380
625	LCA RS02525 WP 011374196.1	.....	355
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	E.....	347
1214	NCTC11637 00359 SQJ03206.1	E.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	DVEEFSEEEL..	372
1130	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1124	NGFG RS03960 WP 003688695.1	TDGERPEE....	348
1123	OK783 RS03845 WP 003688695.1	TDGERPEE....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EFGAVPEEF...	354
1142	GTF74 RS11550 WP 000344154.1	EFGAVPEEF...	354
1205	PSJM300 05545 AFN77183.1	DI.....	347
1022	ACIAD RS06390 WP 004925639.1	DLL..ES.....	349
1074	ABD1 RS10195 WP 000344167.1	DLL..LES.....	349

consensus

DLGDLEIEE  
ELEDLEIEE

- X non conserved
- X similar
- X ≥ 50% conserved