

sleC	MIHILYLA	HDL	SD	PAIRR	RVLTLLAGGARVT	31
exoL	MLQILYLA	QDL	AD	PAVRR	RTLTLVAGGARVT	31
sleD	ME.GPGHSGIRTLIVI	PCL	NE	AKTIEGL	LV	29
exoA	MS.SDELTSTSSLIVI	PCL	NE	ASHIEAL	IE	29
dpsQ	MQMLP					5
gelQ	MTDQT					5
spsQ	MEASP					5
pslH	MRILWIL	PYS	PW	PTTSGGKTRQYHLLRSLAARGHRITVLLHS		42
sleW	MINARGETMARFTVVI	PYY	QK	QHGVLG	RALASVFAQ	36
exoW	MAKLTVVI	PYY	QK	EPGILR	RALASVFAQ	28
sleE	MTDN.TVTGTQYLKTVD..IGI	CTY	RR	PALVA	TL.LSLFELD	38
exoM	MPNETLHID..IGV	CTY	RR	PELAE	TL.RSLAAMN	31
pslC	MRCALVI	PTR	NA	GAHLD	RLLPALAAQ	26
gelL	MTGPRISVVI	PHY	ND	LEGLT	KCLESIDRQ	29
dpsL	MSTPRISVVI	PHY	ND	PQSLR	LCLDALERQ	29
spsL	MSAPRISVVI	PHY	ND	PDSLRL	QCLDALQHQ	29
sleU	MVSGSQPICVII	AAK	NA	SDTID	IAIRSALAE	31
exoU	MTAAAPTDCIIII	SAK	NA	ADTIA	RAVASALAE	32
sleF	MENLTSPDDISFVI	AAY	NA	ADTIE	AAVQSALDQ	33
exoO	MNPPAIDKVPDVTFFV	AAY	NS	ADTIV	RAIESALAQ	35
gumD	MLLA	DLSS		ATYTTSSPRLLSK	YSAAADLV	29
gelB	MNAFEAQRAFEE	QLRAY		AAPKQSAMPAFRRS	TVRMILYTE	40
dpsB	MNAFEAQRAFEE	QLRAH		SRVTPSAAPVWRRS	TLRMVLYTE	40
spsB	MNAFEAQRAFEE	QLRAH		ARSAPSAAPMLRRS	TIRMILYTE	40
pslI	MRIGLDYRTVG			SSPHSGISRQVY	AMEQ..A	28
pslF	MRIALLA.PLPPEKNGIADYASHFRNALQGLGIEVATPLAGVAADSANIASRLDSVDWNAFDLVHAELGGGRLGEFI	ALRE..L				81
gumI	MSASASLPVTRAAAAPRITVLFSTEKPNANT.NPYLTQLYDALP	DAVQPRFFSMRDALLSRYDVLHLHWPEYLLRHPSKMGTLAKQACAALLL..M				93
gelK		MAEATEAAH		TTGKRLKMCLAASGGGHLRQILDLESVWRE		39
dpsK		MAEANAVDG		KASKPLKMCLAASGGGHLRQILDLESVWRE		39
spsK	MGDG	MAEATVTEA		KAGKPLKMCLAASGGGHLRQILDLESVWKE		43
gumH	MKVHVHVVRQFHPSIGG	MEEVVLNVA		RQHQANSAD.TVEIVTLDRVFTDPSAQLTQ		54
gumM	MHGQPAG	VET				10
consensus						

logo

	S S S S A Y I F R R R R A R R L V R L Y S Y S Y S Y S A F E E A L T L E E N Y T L E L S R S E G S A S V N S S S S S Y L Y T L E A R L S L E R E F E E A G																	
sleC	QRMAAVA	....	KASLSLGKV	.....	LNG	..	I	.....	PAPDVVLAR	NLEMLAL	.....	AKRAM	.....	SIYSG	108	
exoL	QRIGAVA	....	RACLSLQRQ	.....	LGH	..	V	.....	RKPDVIIAR	NLEMLAV	.....	ARRAV	.....	AFFGG	108	
sleD					LAN	..	PK	.....	RIQSAGINL	AVA	.....			TFGED	91	
exoA					LDN	..	PK	.....	RIQSAAVNR	AVA	.....			ELGAG	91	
dpsQ	GRTEALV	....	RQRFHHVRI	.....	VPSEGN	.....		.....	IGFGAGNNR	LAA	.....			QAA	84	
gelQ	GDTEAFV	....	RAELPQVRI	.....	VPSEGN	.....		.....	IGFGAGNNR	CAA	.....			HAR	84	
spsQ	GDTEAVV	....	RAEFPHVRI	.....	VPSEGN	.....		.....	IGFGAGNNR	CAA	.....			HAR	84	
pslH			WDVVQ	.....	VEHSYS	.....		.....	FQPYERPLR	DAGQPFVLTEHN	VESSLGAATYD	.....	RLP	..	153	
sleW					VIKQAN	.....		.....	AGPG	..	GARNTG	.....	LD	.....	NVPDG	93
exoW					VIRQPN	.....		.....	GGPG	..	GARNTG	.....	LD	.....	NVPAD	85
sleE					YVHCPK	.....		.....	SNIS	..	IARNAC	.....	LS	.....	ECK	95
exoM					YVHCPH	.....		.....	SNIS	..	IARNCC	.....	LD	.....	NST	88
pslC					IEP	..	AS	.....	FNHG	..	GTRRWA	.....	SQ	.....	QVE	77
gelL					VPV	..	LE	.....	KGAG	..	PARNGA	.....	AA	.....	AAR	82
dpsL					VTI	..	LE	.....	KGAG	..	PARNGA	.....	AA	.....	AAR	82
spsL					VTI	..	LE	.....	KGAG	..	PARNGA	.....	AA	.....	EAQ	82
sleU					VRFDVN	.....		.....	RGPS	..	AARNHA	.....	IS	.....	ISS	85
exoU					VRFEEN	.....		.....	RGPA	..	AARNHA	.....	IA	.....	ISH	86
sleF					LALEEN	.....		.....	RGPG	..	GARNAG	.....	IE	.....	AAT	88
exoO					IALDRN	.....		.....	RGPG	..	GARNAG	.....	IG	.....	AAR	88
gumD	LLYSVICFALFPLYRSWRGRGLLSELMVLGGAFGGVFALFAVHALIVQVGE	.....			QVS	.....		.....	RG	.....	WVGLWVVG	..	LVSLVAARTLLRGFLNHLRTQG	.....	153	
gelB	GTYSLES LRHP	.....	IS	.....	GVKNILSAFLFSILIVLLGS	..	YLLTTELPLS	..	RI	.....	QLGAGALMT	..	VVLLMA	..	GRLVFRRHVRAMT	160
dpsB	GTYSLNCLRYP	.....	VS	.....	GVKSIFS AFFFSIFVLLGS	..	YLLTAELPLS	..	RV	.....	QLAEGAILS	..	LVLLMV	..	GRLMFRRHVRAVT	160
spsB	GTYSLSCLRYP	.....	VS	.....	GVKSIFS AFFFSVFIVLLGS	..	YLLTAELPLS	..	RL	.....	QLGEGVLLA	..	LSLVTI	..	CRLGFRWHVRALT	160
pslI	FNMG	LPLPPR	PPGV	RYALLIHDLFQ	..	ITLKN			YHANR	..	KALVYRV	..	137	
pslF	TGLGGECLARRMLP			PGRV	E	..	VINHGNL	..	EIATVPLP	SLDTLR	..	LLY	..	FGFIYRGKG	203
gumI			ATTPVR	PPFT	D	..	TILHGHYRDWFATMEQS			TTLPGR	..	LLH	..	FGLIRPYKG	183
gelK	TGAGAVYF	.....			TALFA	.....		.....			KLFGAKFIH	.....	IESFAR	..	FDHPSAFGKMVKG	146
dpsK	TGAGAVYF	.....			TALLA	.....		.....			KLSGAKFVH	.....	IESFAR	..	FDHPSAFGKMVKG	146
spsK	TGAGAVYF	.....			TALLA	.....		.....			KLSGAKFVH	.....	IESFAR	..	FDHPSAFGKMVKG	150
gumH	HG	GF			FHTAYASRMKQIWFTLTR	TSALAYA	..	R	VIATSEND	GDLFAK	..	VVAPSRLRVIENG	175	
gumM	QEAFALDL	.....					FHALAAHQPRRVFFANTNFIVQCQALRARMQAPAVRIVNDGIG	.....					MDLAAR	..	LIHGRRFAGNLNG	105
consensus																		

*

logo

sleC	RPAIIVYECLDIH.....RLLLHEGKPGQMLNAAQRIFYA.RDAKLVTSSPFAVE.....HYFKPVSG.....L.....DLPV	169
exoL	TVPPIVYECLDIH.....RLMLRKDIVGRMLRAAESQLG.KDARLLITSSPAFIE.....HYFRPLSG.....I.....GAPP	169
sleD	FDYLI..RIDAH.....GDYPDDYCQRLIEDAERTGA.DSVVVAMDTVGHGLF.....KKAT.....	140
exoA	SDYLI..RIDAH.....GTYPDDYCERLVEDALATGA.DSUVVAMQTGVGFSTF.....KKAT.....	140
dpsQ	GPLL.L.VLNPD.....AIPQPGAIDQLVTFAKHPE.AAAWG....GRSYS.....PSGD.....L.EPAN...FMSLPT	139
gelQ	GQYMM..LVNPD.....AVPPGALDRLVAFARAHP.EAAAAGW....GRSYD.....TAGK.....L.DPGN...FLPLPT	139
spsQ	APRI.L.VLNPD.....AIPRPGAIDLVAFAKAHPD.AAAWG....GRSYF.....PNGQ.....L.DHAN...FLPLPT	139
pshH	GWALP..FVRYS.....QWRYYRRWERRVMQSQAAYV.....VA.....VTE.....KDARQLGA.....M.....LRGPV	200
sleW	TDYVA..FLDS.....DIWTDPHLRNAAFALTITYGG.ECYWASMQASDEFYY.....HFAISELE.....K.NEGA...ARLSEK	157
exow	SDFVA..FLDS.....DVWTPDHLLNAYQSMTRFDA.DCYWASITGGDAFYF.....HFGVADLE.....K.SETV...TRLSES	149
sleE	ADYL.A.FIDD.....ETAPPHWLAAALLEKADETGA.ETVLG....PVTAVY.....RDNAPEGW.....M.KRGD...FH..ST	152
exoM	GDFL.A.FLDD.....ETVSGDWLTRLLETARTTGA.AAVLG....PVBRAHY.....GPTAPRW.....M.RSGD...FH..ST	145
pshC	ADALI..YLTQD.....AIPASPDSFANLLDEL.YAEA.DIGVA....YGRQLP.....HPGAGLLG.....A.QARR...FNYPPE	137
gelL	GEVLA..FTDS.....CVVAPGWLaggvAQVAPG...RFVGg....HMfVIk.....PEGPlSGA.....E....Al..EL	134
dpsL	GeILA..FTDS.....cVVePgwlAggtTrVaPg...rFiGg....hmYvrK.....PeGppNGA.....E....Al..EM	134
spsL	geIL.A.ftDs.....cVvePgWlAggvAhvaPg...rfvgG....hMYvlK.....peGrLtGa.....E....Al..EM	134
sleU	AplIS..ILDAd.....dFFFHGfrfaAmLaDDdw...dlvad...NIafIQ.....qsvpgAss.....m.qPAR...fe..pq	140
exoU	SpliG..Vldad.....dFFFFgrlgqlLSqdGW...dfiad...NiAfId.....aaqaAtah.....g.rIdR...fa..pt	141
sleF	GRwIA..VLDsD.....dvIRpersAcmmCrAEaAna.diaVD...NLdvvY.....tDGrpMET.....M.fPEe...fl..ee	146
exoO	GRwIA..VldsD.....DTvrPdrlRMierADAAGA.qiaVD...nLdvVs.....LDGRslR.....M.fSEA...el..ar	145
gumD	vDV...qrVVVVglRHpvMK.....ISHyLSrnPWgmNmVGyfRTpy.dlaVA...eqRgGlPClGdpDeLiEyLKnnQveqvWislpGerDHIKqllQRLdryP	248
gelB	GDKILLDELVIDGVSLDLASDAVALDARIINLSPNRPDPQMLHR.LGT...TVIG...FDRVVACT.....EEHraVWallLKGMNIKGE.....	239
dpsB	GGRILLDELVIDGVSLDVAGNAVALDARIINLSPNRPDPQMLHR.LGT...TVIG...FDRVIVACT.....KEHraVWallLKGMNIKGE.....	239
spsB	rGTILLDELViVDGvalevasgaValDaRIInltPNRpDPQMlhR.lGT...tvVG...FdRVVAct.....EEHraVWallLKGMNIKGE.....	239
pshI	.....SD.yLSiAyalrvAdrVwtPsqysADEavRLFPGvAG...KVrvLPNQvdGFAGE.....P.....A.....	190
pshF	IEdILE.....Alad.lfas.....Apem.....RQ.....RvrlT.lagGTAA.....E.....M.....	237
gumI	Vevlld.....vmrd.vQDPrlSlrivGNpatPM.....rt.....Lveta.caQD.....A.....	224
gelK	iATisi.....Vqs.....P.....ALKQiWPdaEl.....FD.....PFrm.....	173
dpsK	iATvti.....Vqs.....A.....ALKetWPdaEl.....FD.....PfRl.....	173
spsK	iATvti.....Vqs.....A.....AlKQtwpdaEl.....fd.....pfRl.....	177
gumH	vdvekY.....AGQ.....GA.....Ra.....PgRt.....	192
gumM	tDLipY.....LCR.....EA.....AQ.....PlKF.....	122
consensus	* * *	

sleC	LLQENKVLALDDTIAAT..PR...	PRAPA..PGEP..WKIGW	FGALRCRKSLEILA	EFARRMEGR	VEIILRGRPAYSEFAD	DFDGFVA..AAPH..VHFH	GPYKNPEDLAA..	266
exoL	MLENKVLEIDGTVERRTASP...	AKSPP..PGAP..WKIGW	FGALRCRRSLALLA	EFSRKMEGR	RFEIVLGRPAYSEFD	DFDGFVR..NEPF..MRFE	GAYRNPEDLAE..	268
sleD	.....AIAQNSKLGNG.GSK...	HREGA..KGHW..IDHGH	HALMRIA...	.....F	DAVGGYDESFS...HN..	EDAELDF.....RLRKS	CFRIWMTD....	210
exoA	.....AFAQNSKLGNG.GSK...	HRTGA..VGHW..AEHGH	HALMRIA...	.....F	KAVGGYDESFS...HN..	EDAELDY.....RLGKA	GYRIWMTD....	210
dpsQ	PADFLTAIFNARALRSG.GLQ...	EGATT..PGAVEVLNGG	FMMVRTDV...	.....W	QAIGGFDESFF...LYS..	EEIDLfq.....RIRTL	GHKVLVDP....	217
gelQ	PMDFVASIVSARRLRG.GLA...	EDATE..PGPVDVLNGG	FMMVRADV...	.....W	REIGGFDESFF...LYS..	EEVDMFK.....RIRER	GYAVLVDP....	217
spsQ	VRDFVVSIFSSSPMRRG.GLP...	ADATA..PGPVEVLNGG	FMMVDARV...	.....W	REIDGFDGEGF...LYS..	EEIDLfq.....RIRAR	GYSVLVDP....	217
pslH	PVVVNGVDCE.....HFATA..	RPTPEAQRVLFL.....	GNV..EYAP.....NV..	DAVEWMLDEILPRV	WAHCPEARMSVCG....			263
sleW	PLVIELPDLASVMLRNW.....	SFLHL..SCMV..IGRPLF	.....EKIR	RFDPALR...LAA..	EDVLFFC.....DSILAS	KRRTLLCD....		222
exoW	PLVVELPELQDVMLKNW.....	SFLHM..SCMV..IGRKL	.....EKV	RFEATLK...LAA..	EDVLFFC.....DCVLAS	KRVVLCD....		214
sleE	.....VPVWVNGEIIITG.Y...	.....TCNT..LLRMEAP	.....SVKGR	RFALALG..QSGG..	EDTHFFS.....HLHAA	GGRIVFAE....		212
exoM	.....LPVWAKGEIIRTG.Y...	.....TCNA..LLRRDAA	.....SLLGR	RFKLSLG..KSGG..	EDTDFFT.....GMHCA	GGTIAFSP....		205
pslC	SRSKRLADASELGIKT.....	.....CFS..SDSF..SAYRSDA	.....LAAV	GDFFPE..D..VIGS..	EDAYVAA.....RLAQ	YAVRYAA....		201
gelL	.....AVAFDNEGYVRR.A....	QYTVT..ANLF..VMRAD	FE.....RVGEFR	.....TGVS..	EDMEWCH.....RAIAK	GLTIDYAA....		193
dpsL	.....ALAFDNEGYVRR.T....	QFTVT..ANLF..VMRAD	FE.....RVGGFR	.....VGVS..	EDLEWCH.....RAIAS	GLTINYAP....		193
spsL	.....ALAFDNEGYVRR.A....	KFTVT..ANLF..VMRAD	FE.....RVGGFR	.....TGVS..	EDLEWCH.....RAIAT	GLAIDYAP....		193
sleU	ARFLSLTEFVEGNISRP.GVE...	RGETG..FLKP..VIRRA	FL.....DKHAL	RYDE..A..LRLG..	EDYELV.....RALAA	GARYKVIR....		210
exoU	PRLIDLVGFEVGNISRR.GVR...	RGEIG..FLKP..LMRRA	FL.....DQHGL	RYNE..T..LRLG..	EDYDLYA.....RALAN	GARYKIIH....		211
sleF	RPVLTLEDFISSNILFR.S....	TFNFG..YMKP..MFRRD	FL.....NNEAL	RFRE..D..IRIG..	EDYILLA.....SALA	AGGLCVIEP....		214
exoO	LPQLTLPAFIESNVLF.R.S....	EHNFG..YMKP..IFERR	FL.....ENQQL	RFDE..A..LRIG..	EDYILLA.....SALAC	GGRCAVEP....		213
gumD	INVKLVPDLDFDGLLNQSAE	QIGSVPVINLRQGGVD..RDNY	F.....V	VAK..A...LQDK	LAVI.....ALMGL	WPLMLA.....		314
gelB	...ILVPQFALGAIGVDAYD..	GKDTLVVSQGPLS..MPN..	.....RAKK..R...	ALDLLITVP.....	AVLALAPMLI...			298
dpsB	...ILVPQFALGAIGVDAFD..	GKDTLVVSQGPLN..MPN..	.....RAKK..R...	ALDLAITVP.....	AVLALAPMLI...			298
spsB	...ILVPQFALGAIGVDSYE..	GKDTLVVSQGPLN..MPN..	.....RAKK..R...	ALDLLITVP.....	ALVALAPLMIV...			298
pslI	.....DLSA.....RGLP..	PRYWL.....LVGT..R...	E...LRKN	VPWFVSA.....WTRARA	QAPGVPLVLV...			237
pslF	.....AFGA.....GGN...YLYQL	.....KAQI..A...ELGL	ADAIDWNLN...	.....AAADIP	RTIQA.....			279
gumI	.....RISA.....L.....LAYV..E...E...	.....PVLARE	VS...					244
gelK	.....LD.....TPRP..PKQAL	.....TFAT.....	VGATLP	FPRLVQA...				201
dpsK	.....LD.....TPRP..PKQAL	.....IFAT.....	VGATLP	FPRLVQA...				201
spsK	.....LD.....TPRP..PKQAL	.....TFAT.....	VGATLP	FPRLVQA...				205
gumH	.....MLY.....FGRW..SVNKG	.....LIET..L...EL...LQA	.....ALTRDP	PQWRLIIA...				227
gumM	.....FLL.....GGRP..GVGKT	.....AAAT..L...TGTL	GQQV.....VGMCD	GYGEFAAA...				160
consensus			*	*	**	*		



sleC

[illegible]

sleC	DDLAA	LFN	.....	RMTP	.....	QTYADAFH	.....	TLSATDRKQ	WLT	...	DRDDCRLLVQQLSSLAKSASGHAREAQF	.....	390
exoL	ESLATV	LG	.....	PLTP	.....	NCYADAAE	.....	RISRCNPGS	WVF	...	DRTDCEALVRQLATLTQLAPQTVPVVAM	.....	392
sleD	ALLSLVHWAALI	P	LGLWIAACVGYGLWMAIGQKNPYGPLAAFSAMVMHLAWSTGF	.....	WLE	...	LLKFRGRK	...	AVS	.....		332		
exoA	ALLAIVNMAVVP	P	VGVWAAACLGYGVMALGQRNPYGPLAAVAAMVMHLAWSAGF	.....	WRE	...	LLDFRRV	...	A	.....		330		
dpsQ	.....	ALW	.....	RLSP	.....	RTGTRYKELS	.....	NGWRAVFSNPGR	WWS	...	GYPRR	.....	312
gelQ	.....	LLA	.....	PLL	.....	KKRERLTAVS	.....	RAWAPVVRERRR	WWA	...	GYPACK	.....	313
spsQ	.....	LLG	.....	RLSP	.....	RRAARWNALR	.....	DAWSIVFGQPRR	WWH	...	GWRDHVRT	.....	315
pslH	...NAVVRLLQDP	P	AQARAL	.....	GE	.....	NGRAYVRRAH	.....	DWSV	...	AASQLEQVY	AGLAEGAPACA	402
sleW	...LL	LKWAMRD	P	ALLRAA	...	FELGA	...	GKIVRSR	.....				329		
exoW	...LLARWLWRDP	P	RLIGSA	...	AELAV	...	GKLSR	.....					319		
sleE	...VLYC	.....	ALF	...	AALSG	...	FNAVRRNRYALRGALHMGSMMSGAFGVRE	.....			IRQYGAVEAT	...	314	
exoM	...SGFC	.....	ATA	...	AVLCF	...	PSAARRNRFALRAVLHAGVISGLLGLKE	.....			IEQYGAREVT	SA	309	
pslC	...KL	GYRLGQ	.....	LE	...	RHLPV	.....	ALKRRI	S	.....	MFPGY	WK	303
gelL	...RWLARSALQ	P	ALLPSDA	...	AKILR	...	TSTTQGARAKA	.....	LLTACRLRF	WKS	...	G.VGLLQLLGRPA	288		
dpsL	...RWLVRSVAQP	P	AMIPQDV	...	AKILR	...	TPGTKGARLAA	.....	VTTLVRLRL	WRG	...	G.AGLLQLLGRDI	288		
spsL	...RWLARSTLQ	P	ALIPADT	...	AKILR	...	TPGTRGSRIAA	.....	VGTLVRLRF	WRA	...	G.AGLLQLLGRPI	288		
sleU	...GALSHALARLP	P	ALPAIT	...	RGIWS	...	DKTAFRKAAP	...	VRD	...	VRYLLD	GTP.VS	329			
exoU	...RAFGYALTHP	P	AALPAII	...	GGILA	...	DKTERFRPSGS	...	PAPVALGGKGDVRYLLE	...	TLA.VDQP	...	QK	342		
sleF	...GAL	KTTIRD	P	AVLG	.....	HLRM	...	PIAVRLRRLRDAV	FAPAANTG	...	VKRQIS	.....	331	
exoO	...GAL	KTALAD	P	FALR	HLSM	...	PIAARLRRLAARF	VHPSSSHA	...	PRAAPV	...	TAAAEERSPLGNDPRISKG	348		
gumD	VLGGSMSIVGPRP	P	HAAQHNT	.....			H.YEKLI	...	NHYMQRHYVKPGITGWAQVNGFRGETPELRTMKKRIQYDLDYIRRWSLWLDIRI	.....			469	
gelB	VLRGDMSVVGPRP	P	HALGSRAAD	.....			HYFWEID	...	ERYWHRHTLTKPGMTGLAQVGRGFRGATDRRIDLTNRLQANMEYIDGWDIWRDITI	.....			456	
dpsB	VLRGDMSVVGPRP	P	HALGSRAAD	.....			HLFWEID	...	ERYWHRHTLTKPGMTGLAQVGRGFRGATDRRVDLTNRLQADMEYIDGWDIWRDITI	.....			456	
spsB	VLRGDMSVVGPRP	P	HALGSRAAN	.....			HLFWEID	...	ERYWHRHTLTKPGMTGLAQIRGFRGATDRRVDLTNRLQADMEYIDGWDIWRDVTI	.....			456	
pslI	ALERLMLRLADAP	P	REASAEELI	.....			AWAAR	...	FNREAY	.....		RQRLAALIEELS	367	
pslF	ALSEQ	LL	NLAREP	P	RLAQAWAER	.....		AGAIG	HART	WPR	.....	TALRFQALFNDMVGTVHGT	395	
gumI	LLSGMLDQVRAAPRG	.....				PAPDL	...	SQRD	WPR	.....		IGQLHYRTYLEALGKDGDAAAL	349	
gelK	FADRG	LL	QAVRDERELGAAVA		AAK	...	ATEPR	.L	...	ATTDHTA	...	LAARL	RTLLAEWGAKR	348	
dpsK	FADRG	LL	QAVRDERQLGAAVE		AAK	...	ATEPQ	.L	...	ATTDHTA	...	LAARL	RQLLAQWSAKR	348	
spsK	FADRG	LL	HAVRDERELGAAVE		AAK	...	ATEPQ	.L	...	ATTDHTA	...	LAGRL	RELLAQWSAKR	352	
gumH	IVNRDRIQAAADSVQALALQAD				ADFDAR	...	RTATMAYV	ARYD	W	WRH	VVGRYIDEYHAALGTPRTQEAVR	380		
gumM	LL					NEPRLL	...	KRYS	W	DL	LVFFRTCLRAG	...	KQLA	263
consensus		*		*						*						

logo

	LEKTLERIVH.SNAE.	
sleC	.....SPV.....	393
exoL	.....AGSSHKEGGFL	403
sleD	.....	332
exoA	.....	330
dpsQ	.....	312
gelQ	.....	313
spsQ	.....	315
pslH	.....	402
sleW	.....	329
exoW	.....	319
sleE	.....	314
exoM	.....	309
pslC	.....	303
gelL	.....	288
dpsL	.....	288
spsL	.....	288
sleU	.....	329
exoU	.....	342
sleF	.....	331
exoO	.....	348
gumD	IVLTAVRVLGQKTAY.	484
gelB	LFKTLRVIVH.SNAF.	470
dpsB	LFKTLRVIVH.SNAF.	470
spsB	LFKTLRVIVH.SNAF.	470
pslI	.....	367
pslF	.....	395
gumI	.....	349
gelK	.....	348
dpsK	.....	348
spsK	.....	352
gumH	.....	380
gumM	.....	263
consensus		

 non-conserved
 ≥ 50% conserved