	**************************************	
neuB		0
gumD		0
gelB		0
dpsB		0
spsB		0
crdS	MYFSAEGDVQSVLYVNLTIAIGAILFALLADPRKMV.DRLAFSIIMLLSLGVYIVWRATDTLPPPEL	66
bcsBI		0
bcsAI	MSEVQSSAPAESWFGRFSNKILSLRGASYVVGALGLCALLAATMVTLSLNEQMIVALVCVAVFFIVGRRKSRRTQVFLEVLSALVSLRYLTWRLTETLDFDT.	102
bcsABII-A	MYGTWFTTGKVTDLLARTGLDRVPVWVPVVLGVVLMAFVGSVRIDPALQGWVSVGTVTLLLVLNRRRGRGITVFLMMLSLLVSLRYIVWRLTATVQFSN.	99
pslF		0
gumI	MMDII	0
pelF		4
pslI		0
gelK		0
dpsK		0
spsK		0
gumH		0
gumM hasA		0
sleD		0
exoA		0
icaA		0
pgaC		0
sleC		0
exoL		0
alg8		Ö
pmHAS	MNTLSQAIKAYNSNYNSN	14
epsH		0
epsJ		0
dpsQ		0
gelQ		0
spsQ		0
pslH		0
sleW		0
exoW		0
sleE		0
exoM		0
pslC		0
gelL		0
dpsL		0
spsL		0
sleU		0
exoU		0
sleF		0
exo0		0
consensus		

	W-GIOLEX/ELTAFIYABELT LEXEGRIMENT RESSELETESZELEMPSVEXETESZELETYNESLETYLEALENDEPPER	
neuB		0
gumD		0
gelB		0
dpsB		0
spsB		0
crdS	SLETLWCYTYFTF.ELISVLYAMGSILILLRRTDWSAVADQGEAYLAGNPHAPLVDVFICTYNEPLNVLEKSIIAAQAMDYPRLRVF.V.CDDTRR	159
bcsBI		0
bcsAI	$. \dots . \texttt{WTQGILGVTLLLAELYALYMLFLSYFQTISPLH}. \texttt{RAPLPLPANPDEWPTVDIFIPTYDEALSIVRLTVLGALGIDWPPDK}. \dots . \texttt{VNVY}. \texttt{I.LDDGR}. \dots . \texttt{R}$	192
bcsABII-A	WLQTALAVLLLLAEAYALMTLCLSYFQMAWPLR.RREHPLPEDMAQWPSVDVFVPSYNEELSLVRSTVLGALDLDWPADRLNVY.I.LDDGRR	189
pslF		0
gumI	MSASAS	6
pelF	TAPTAPVADVCLFSVFFI.GGQKDAY.GKRH	61
pslI	MRI.GLDYRTVGSSPH	15
gelK		0
dpsK		0
spsK		9
gumH gumM		0
hasA		0
sleD		0
exoA		0
icaA		0
pgaC		0
sleC		Ö
exoL		Ö
alg8		Ö
pmHAS	DYQLALKLFEKSAEIYGRKIVEFQITKCKEKLSAHPSVNSAHLSVNKEEKVNVCDSPLDIATQLLLSNVKKLVLSDSE	92
epsH		0
epsJ		0
dpsQ		0
gelQ		0
spsQ		0
pslH		0
sleW		0
exoW		0
sleE		0
exoM		0
pslC		0
gelL		0
dpsL		0
spsL		0
sleU		0
exoU		0
sleF		0
exo0		0
consensus		

	-efuneseavesante-arregnedeKaerbetaaretbalgevenetkalesearenLDCbgetebeflootigwaagggulRittDCesalVateHB	
neuB		0
gumD		0
gelB		0
dpsB		0
spsB		0
crdS	GEVRTYCEAVGVNYVTRPDNKHAKAGNLNNALLHTNALEEVSDFIMVLDADFAPQANFLRRVTGLFSDPKVAVVQTPQF	238
bcsBI		0
bcsAI	EEFARFAEACGARYIARPDNAHAKAGNLNYAIKHTTGDHILILDCDHIPTRAFLQISMGWMVSDSNIALLQTPHH	267
bcsABII-A	KAFHDFAVEAGAGYIIRAENNHAKAGNLNHALAVTDSPFAVIFDCDHVPTRGFLRRTIGWMMADPNLALLQTPHH	264
pslF	MRIALLA.PLPPEKNGIADYASHFRNALQGLGIEVATPLAGVAADSANIAS	54
gumI	LPVTRAAAAPRITVLFSTEKPNANT.NPYLTQLYDALPDAVQPRFFSMRDALLSRYDVLH	65
pelF	YPIPDNVLHIEEHFLETAWSSPNPQTRQGSSETEKALRDLHRFFHYPETPDVEEGDALLDLLAEGRIGREDFLHSKASWEAITAGYERYCTDPSFVN	158
pslI	SGISRQVYAMEQA.LESLPGTQVTRFTVAPLDDPLRDDPLRQRA.VC	55
gelK	MAEATEAAHTTGKRLKMD	41
dpsK	MAEANAVDGKASKPLKMD	41
spsK	MGDGMAEATVTEAKAGKPLKMD	45
gumH	FHPSIGGMEEVVLNVARQHQANSADDTVEIVTLDRVFTDPSAQLTQHE	56
gumM	MHGQPAGVET	10
hasA		0
sleD		0
exoA		0
icaA		0
pgaC		0
sleC		0
exoL		0
alg8		130
pmHAS		138
epsH		0
epsJ		0
dpsQ		0
gelQ		0
spsQ		0
pslH sleW		0
siew exoW		0
sleE		0
exoM		0
pslC		0
gelL		0
		0
dpsL		0
spsL sleU		0
exoU		0
exou sleF		0
exoO		0
		U
consensus		

	XEXXXEROLES LAND PREUS-PXALABARAR LOUS-ARAGER SON STERN GOLD L'EROS LA LARGE SE CONTRACTOR DE LA CARACTERIA DE	
neuB	<u> ₹₽₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽</u>	
gumD		
gelB		
dpsB		
spsB		
crdS	YFNSDPIQHNLGI.DKSFVDDQRVFFDVFQPAKDAVG.CAFCV.GTSFVVRRAAVNGIGGFPSDALSEDMLLTYRL	3
bcsBI	II NODI I QIINEGI. DRDI VDDQILVI I DV QI KNDKVO. CKI CV. GIDI VVILLIKAVNOI GGI I DDAEDEDN ELI I ILE	_
bcsAI	FYSPDPFQRNLAV.GYRTPPEGNLFYGVIQDGNDFWD.ATFFC.GSCAILRRKAIEEIGGFATETVTEDAHTALRM	3
bcsABII-A	FYAPDPFQRNLAG.GMHVPPEGNMFYGLVQDGNDFWD.ATFFC.GSCAIIRREAVMGIGGFATETVTEDAHTALKM	3
pslF	VDWNAFDLVHAELGGGRLGEFIALRELRKRFPRLPLSATVHDP	_
gumI	LHW	1
pelF	YFWTLRSMQAPVFMLAEAARRMPRARMLHSI.STGYA.GLLGCILQRRWGCRYLLSEHGIYTK	2
	PPWGCPRTAMHQPHQRLRFEAGFLPRALREQDIDLYI.STFNM.GLPLPPRPPGVRYALLIHDLFQI	1
pslI	YFFVTEDTALGRSLAEKHPVELVGHYALGQARLGHPFKMLGGALRNLRQSLAIVRRHKPDVVISTGAGAVYF.TALFA	1
gelK	YFFVTEDTALGRSLAEKHPVELVGHTALGQAKLGHPLRMLGGAURNLRQSLSILRRHKPDVVISTGAGAVYF.TALLA	
dpsK	YFFVIEDTALGRSLAEKHPVELVEHYALGQAKLGHPLRMLGGAWRNLRQSLSILRKHKPDVVISIGAGAVYF.IALLAYFFVTEDTALGRSLAEKHSVALVDHYALGQAKLGHPLRMLGGAWRNLRQSLSIIRKHKPDVVISTGAGAVYF.TALLA	1 1
spsK		
gumH	VHQGLPITRIGYRGSSRYPIAPSVLGAIRSADVVHLHGIDFFYDYLALTKPLHGKPMVVSTHGGFFHTAYAS	1
gumM	GVVIPLGGFPVLSTTQEAFALDLFHALAAH	
hasA		
sleD		
exoA		
icaA		
pgaC		
sleC		
exoL		
alg8		_
pmHAS	FTWYKKRKKRLGIKPEHQHVGLSIIVTTFNRPAILSITLACLVNQKTHYPFEVIVTDDGSQEDLSPIIRQYENKLDIRYVRQKDNGFQA	2
epsH		
epsJ		
dpsQ		
gelQ		
spsQ		
pslH		
sleW		
exoW		
sleE		
exoM		
pslC		
gelL		
dpsL		
spsL		
sleU		
exoU		
sleF		
exoO		
consensus		

1080		E-1s
neuB	No	
gumD	ML	
gelB	MN	
dpsB	MN	
spsB	MN	AFEAQRAFEEQLRAHARSAPSAAPMLRRSTIRMILYTELLLLD. 45
crdS	MERGYVTRWLNEKLSVGL	SAEGVPEYITQRTRWCLGTIQIGLLRTGPL 359
bcsBI		· · · · · · · · · · · · · · · · · · ·
bcsAI	QRKGWSTAYLRIPLASGL	
bcsABII-A	QRRGWGTAYLREPLAAGL	
pslF	ERMVWRRE.RLPWPLNL	
gumI	EDRGWRER ALLRWIDGL	
pelF	ERKIDLA QANWIAEN	
pslI	TLKNYHANRLKAL	
gelK		
dpsK		
spsK gumH	RMKQIWFQTLTR	
gumM	QPRRVFFANTNFIVQC	QALRARMQAPAV
hasA		
sleD		
exoA		
icaA		
pgaC		
sleC		
exoL		
alg8		
pmHAS	SAARNMGLRLAKYDFIGLLDCDMAPNPLWVHSYVAELLEDDDLTIIGPRKYIDTQHID	
epsH	DARKUNGERERKIDI I GELEDODIRI NI EWVIIO I VALLELEDDOEI I I GI I I KI I I DI QII I	
epsJ		•
dpsQ		
gelQ		
spsQ		
pslH		
sleW		
exoW		
sleE		
exoM		
pslC		
gelL		
dpsL		
spsL		
sleU		
exoU		
sleF		
exoO		
consensus		

Togo	···	
	™EFTSF SANJEFES " " EEGS EGGESTES " P " EGEGGTSFESPETSPETS " HIS " HIS " " HIS BESTELLE EN SEGGES FEGGES FEES FFE	
neuB		8
gumD	AYRIVFGTWVPAAPYRVAIA	64
gelB		78
dpsB		78
spsB	SIAILLGFYIAACSRDGNWLSLAGVNVGIFLLP	78
	WRG.NFTLTQRLHYLHGLFCWLSKPFILCLLLAPSIYWLTGVSALQVDELMFM.KLGLSSLALFWTYSTWISGKRTLPLFTEVTH.ALT.	445
crdS		
bcsBI		0
bcsAI	GSGLKLGQRLCYLSAMTSFFFAIPRVIFLASPLAFLFFSQNIIAASPLAVGVYAIPHMFHSIATAAKVNKGWRYSFWSEVYETVMALF.	476
bcsABII-A	GAGLRWEQRLCYLSAMSHFLFAIPRLTFLVSPLAFLFLGQNIIAASPLAISVYALPHIFHSVITLSRIEGRWRYSFWSEIYETSLALF.	473
pslF	TRLVTL.TGLGGECLARRMRLPPGRVEVINHGNLEIATVPL.PSLDTLRL.LYFG	196
$\operatorname{\mathtt{gum}} \mathtt{I}$		176
pelF	NPIVALYEGNRQRQVLDGAEPRRTRVIPNGIDLDAWTGALERRPPGIPPVV.GLVG	324
pslI	DEAVRLFPGTRELRKNVPWFVSAWTRARAQ.APGVPPLV.LVGS	239
gelK	.LFGAKFIHIESFARFDHPSAFGKMVKGIATISIVQSPALKQIWPDAELFDPFRM.LDTP	177
dpsK	LSGAKFVHIESFARFDHPSAFGKMVKGIATVTIVQSAALKETWPDAELFDPFRL.LDTP	177
spsK	.LSGAKFVHIESFARFDHPSAFGKMVKGIATVTIVQSAALKQTWPDAELFDPFRL.LDTP	181
gumH	.VIATSENDGDLFAGARAPGRTMLYFG	197
gumM	RIVND. GIGMDLAAEAAQPLKFFLLGG	127
hasA	MRTLKVKMSLSFF	54
sleD	······································	0
exoA		0
icaA	MHVFN.FLLFY.PIFMSIYWIVGSIYYFF	27
	MHVFN.FLLFY.PIFMSIYWIVGSIYYFF	21 54
pgaC		
sleC		0
exoL	NATURAL DEL L'ALTERNATION DE L'ALTERNATI	0
alg8	MMETYKSL.LMVLALAVPKTVFDAD	37
pmHAS	LDWRLEQFEKTENLRLSDSPFRFFAAGNVAFAKKWLNKSGFFDEEFNHWGGEDVEFGYRLFRYGSFFKTIDGIMAYHQEPPGKENETD	405
epsH		0
epsJ		0
dpsQ		0
gelQ		0
spsQ		0
pslH		0
sleW		0
exoW		0
sleE		0
exoM		0
pslC		0
gelL		0
dpsL		Ö
spsL		Ö
sleU		0
exoU		0
sleF		0
exoO		0
		U
consensus		

No.   No.	_	B G ALT T	D B V -	I - I VA - GI - DI	
STATE   STAT					7.4
ADBRIGHT   ADBRIGHT					
STATE   STATES	gelB	ITLGTAIASGTYSLES	LRHPISIS		125
STATE   STATES	dpsB	IALGTALASGTYSLNC	LRYPVSVS		125
CTGS	snsB				
Does	crdC	AVDITTT	VDECDDEV VTEVCCDDCOVDVUI DTATE	EVENTI GGVNGINI VANGIL BULLI GGDUCI	
DesaI		,	· ·		
DebaBit					
PITRICKGIEDL					
SUMIT					
POINT   RAMBGVUSA	pslF	FIYRGKGIEDLLEALADLFAS	APEMRQRVRLTLAGGTAAEMAFGAGG	NYLYQLKAQIAELGLADAIDWNLNLAA	
POIL   RVPYRKDVKTF	gumI	LIRPYKGVEVLLDVMRDVQDPRLSLRIV	GNPATPQMRTLVETACAQDARISA	LLAYVEE	235
Deli		RVVPTKDVKTFTRAMRGVVSA	MPEAEGWIVGPEEEDP	DYASECRSLVASLGLQDKVKFLGFR	386
Selk   RPPKQALTFAT					
AppK					
spkK         RPPKQALTFAT         VGATLP         FPRLVQAVL         DLK         RAGGLPGKLVLQYGQDDLADP         GIPDVE         237           gumH         RWSVNKGLTETLEL LQA ALTRDP         QWRLIIAGR         EYD         LNEADLRKALAREGLQDK         V         251           gumH         RPGVGKTAAATLTGTLGQQVVGMCDG         YGEFAAAGE         G         LAERINRSGADVL         L         177           hasA         YKPF         MEG         3           exoA         MEG         3           exoA         MEG         3           exoA         MSS         3           sieC         YRERHWPWG         ENAPA         68           sieC         M         1           exoL         M         1           alg8         SK.DFI         LLIGA         VGI.WR         YSMGG         57           pmHAS         REAGKNIT         LDIMRE         KVPYIYRKI         LPIED         433           epsJ         O         O         O         O           spsQ         O         O         O           pshQ         O         O         O           spsQ         O         O         O           pshQ         O         O<					233
SIMH					
SUMM   RPGVGKTAAATLTGTLGQQVVGMCDG	spsK				
Name	gumH	RWSVNKGLIETLELLQA.ALTRDP	QWRLIIAGREYD	LNEADLRKAIAERGLQDKV	
Name	gumM	RPGVGKTAAATLTGTLGQQVVGMCDG	YGEFAAAGE	LAERINRSGADVLL	177
SIED	hasA				58
exoA         .MSS         3           icaA         IKEKPFNRS         LLVK         40           pgaC         YRERHWPWG         ENAPA         68           sleC         .M         1           exoL         .M         1           alg8         SK.DFI         LLIGA         VGI WR         YSNGG         57           pmHAS         REAGKNIT         LDIMRE         KVPYIYRKL         LPIED         433           epsJ               dpsQ					
I					3
pgaC         YRERHWPWG         ENAPA         68           sleC         M         1           exoL         M         1           alg8         SK. DFI         LLIGA         VGI.WR         YSMGG         57           pmHAS         REAGKNIT         LDIMRE         KVPYIYRKL         LPIED         433           epsJ         0         0         0         0         0           dpsQ         0 <td></td> <td></td> <td></td> <td></td> <td>40</td>					40
SieC					
exoL           1           alg8         SK. DFI         LLIGA         VGI WR         YSMGG         57           pmHAS         REAGKNIT         LDIMRE         KVPYIYRKL         LPIED         433           epsJ           0           dpsQ           0           gelQ           0           spsQ           0           pslH            0           sleW <td< td=""><td>pgac</td><td></td><td></td><td></td><td></td></td<>	pgac				
alg8         SK DFI         LLIGA         VGI WR         YSMGG         57           pmHAS         REAGKNIT         LDIMRE         KVPYIYRKL         LPIED         433           o         epsJ         0         0           dpsQ         0         0         0           gelQ         0         0         0           spsQ         0         0         0           pslH         0         0         0           sleW         MIN         3           exoW         MIN         1           pslE         MMTD         NTVTG         8           exoM         0         0           gelL         0         0           dpsl         0         0           sleU         0         0           exoU         0         0           sleF         0         0           exoC         0         0           sleF         0         0           exoC         0         0           exoC         0         0           exoC         0         0           exoC         0         0					
pmHAS         REAGKNIT         LDIMRE         KVPYIYRKL         LPIED         433           epsH         0           dpsQ         0         0           gelQ         0         0           spsQ         0         0           ps1H         0         0           sleW         0         0           exoW         0         0           sleE         MIN         3           exoM         0         0           pslC         0         0           gelL         0         0           dpsL         0         0           spsL         0         0           sleU         0         0           exoU         0         0           sleF         0         0           exoU         0         0           sleF         0         0           exoU         0         0           sleF         0         0           exoU         0         0           exoU         0         0           exoU         0         0           exoU         0         0					1
epsH       0         epsJ       0         dpsQ       0         gelQ       0         spsQ       0         psH       0         sleW       MIN       3         exoW        0         sleE       MTD       NTVTG       8         exoM       M       1         pslC       0       0         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       0       0         exoO       MNP       3					
epsH       0         epsJ       0         dpsQ       0         gelQ       0         spsQ       0         psH       0         sleW       MIN       3         exoW       0         sleE       MTD       NTVTG       8         exoM       M       1         pslC       0       0         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       0       0         exoO       MNP       3	pmHAS	REAGKNITLDIMRE	KVPYIYRKL	LPIED	433
epsJ       0         dpsQ       0         gelQ       0         spsQ       0         pslH          sleW          exoW          sleE       MTD       NTVTG       8         exoM       M.       1         pslC       0       M.       1         gelL       0       0         dpsL       0       0         spsL        0         sleU        0         exoU        0         sleF         0         exoO         0	epsH				0
dpsQ     0       gelQ     0       spsQ     0       pslH     0       sleW     MIN       exoW     0       sleE     MTD     NTVTG       exoM     NTVTG     8       pslC     M     1       pslC     0     0       gelL     0     0       dpsL     0     0       spsL     0     0       sleU     0     0       exoU     0     0       sleF     0     0       exo0     MNP     3	epsJ				0
gelQ     0       spsQ     0       pslH     0       sleW     MIN     3       exoW     0     0       sleE     MTD     NTVTG     8       exoM     M     1       pslC     0     0       gelL     0     0       dpsL     0     0       spsL     0     0       sleU     0     0       exoU     0     0       sleF     0     0       exoO     MNP     3					
spsQ       0         ps1H       0         sleW       MIN       3         exoW       0         sleE       MTD       NTVTG       8         exoM       M       1         ps1C       0       0         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       0       0         exoO       MNP       3					
pslH       0         sleW       MIN       3         exoW       0         sleE       MTD       NTVTG       8         exoM       M       1         pslC       0       0         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       M       1         exo0       MNP       3					
sleW       MIN       3         exoW       0         sleE       MTD       NTVTG       8         exoM       M       1         pslC       M       1         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       M       1         exo0       MNP       3					
exoW       0         sleE       .MTD       NTVTG       8         exoM       .M       1         pslC       .0        0         gelL         0         dpsL         0         spsL         0         sleU          0         exoU           1         exoO					0
sleE       MTD       NTVTG       8         exoM       M       1         pslC       0       0         gelL       0       0         dpsL       0       0         spsL       0       0         sleU       0       0         exoU       0       0         sleF       M       1         exoO       MNP       3					3
exoM       .M       1         pslC       0         gelL        0         dpsL        0         spsL        0         exoU         0         sleF         1         exoO         3					
pslC       0         gelL       0         dpsL       0         spsL       0         sleU       0         exoU       0         sleF       .M       1         exoO       MNP       3					
gelL     0       dpsL     0       spsL     0       sleU     0       exoU     0       sleF     .M     1       exoO     MNP     3					1
gelL     0       dpsL     0       spsL     0       sleU     0       exoU     0       sleF     .M     1       exoO     MNP     3	pslC				0
dpsL       0         spsL       0         sleU       0         exoU       0         sleF       .M       1         exoO       MNP       3					0
spsL       0         sleU       0         exoU       0         sleF       .M       1         exoO       MNP       3					
sleU       0         exoU       0         sleF       .M       1         exoO       MNP       3					
exoU       0         sleF       .M       1         exoO       MNP       3	aloII				
sleF					
exoOMNP					
					1
consensus					3
	consensus				

logo						
	»EE - SE - 8E Bros - FE EŞEYIYE EZER BE	Z L AS	FIIGIANA INT	TedayeE5	Be	FA
neuB	NAPESSTQYEMLKALELSEEDHYLLSELANSLGIEFMST	.GFDEQSID	.FLISLGVKRLKI	PS		
gumD	QVSRGWVGLWFVGGLVSLVAARTLLRGFLNHLRTQGVDV					
gelB	ELPLSRIQLGAGALMTVVLLMAGRLVFRRHVRAMTGDK					
dpsB	ELPLSRVQLAEGAILSLVLLMVGRLMFRRHVRAVTGGR	.LLDELVII	.DGVSLDVAG			
spsB	ELPLSRLQLGEGVLLALSLVTICRLGFRWHVRALTRGT	'. I.I.DEI.VIV	DGVALEVAS			
crdS	NLIWSAVAMVIAFTSFICCIELPR.FGKEEMIGVDFR	GQI.R.S.A.S.T	RPVRIT GLSTENT	TI.AAVPSSSDVKI	DVFVPEAGWMR	TSPAE
bcsBI						
bcsAI	NCIWSVISLIILMAVISVGRETKQ.LRQSHRIE			TEDVSMGG	. VATHI.PWRF	VTPDHPV
bcsABII-A	NTLWVVISLIIVLASIAVGRETRQ.TRNAPRVS					
pslF	ADIPRTIQAHHVMVL.PYRE.SKKLGL					
gumI	PVLAREVSACELVVL.PYKQ.MHNSGT					
pelF	RIGEVLPQLGLMVLTSISE.AQPL.V					
pslI	RQAERLWQPSYAE.GFGL.P					
gelK	IRPTIPFDE.LQLMLRDADIVICHG.GTGSL					
dpsK	IRRTIPFDD.LQLLLRDADMVICHG.GTGSL					
spsK	IRRTIPFDD.LQLLLRDADMVICHG.GTGSL					
gumH	QLSMSPSQQQLCALMQQAQFFVCLSRHE.GFGIA					
gumM	VAFGNPLQERWILDHSEALQVPL.VFGVG					
hasA	KGRAGQ.YKVAAIIPSYNED.AESLL					
nasa sleD		EILNOVQQQ				
	DE.LTS.TSSLIVIPCLNEA.KITEG					
exoA	SEHQQV.EGISFLLACYNES.ETVQD	TI COVI CI E				
icaA	SEHQQV.EGISFLLACYNES.EIVQD	ILSSVLSLE	Y	• • • • • • • • • • • • •		
pgaC	PQLKDN.PSISIIIPCFNEE.KNVEE					
sleC						
exoL	LQILYLAQDLADPAVRRR.TLTL					
alg8	VHFLRGMLFLHVVYPYYRRR.V	RULGSAADPSHVFLM	VISFRIDALI			TA
pmHAS	SHINRV.PLVSIYIPAYNCANYIQ	RCVDSALNQ	<u>T</u>			
epsH	MET.PAVSLLVAVYNTETYIR	TCLESLRNQ	<u>T</u>			
epsJ	MI.PLVSIIVPMYNVEPFIE					
dpsQ	MQMLP					
gelQ	MTDQT					
spsQ	MEASP					
pslH	MRILWILPYSPWPTTSGG.KTRQY					
sleW	ARGETM.ARFTVVIPYYQKQ.HGVLG	RALASVFAQ	T			
exoW	M.AKLTVVIPYYQKE.PGILR	RALASVFAQ	T			
sleE	TQYLKT.VDIGICTYRRPALVA					
exoM	PNETLH.IDIGVCTYRRPELAE					
pslC	MRCALVIPTRNAGAHLD					
gelL	MTG.PRISVVIPHYNDLEGLT					
ipsL	MST.PRISVVIPHYNDPQSLR					
spsL	MSA.PRISVVIPHYNDPDSLR	QCLDALQHQ	T			IG
sleU	MVSGS.QPICVIIAAKNASDTID	IAIRSALAE	P			
exoU	MTAAAP.TDVCIIISAKNAADTIA	RAVASALAE				
sleF	ENLTSP.PDISFVIAAYNAADTIE	AAVQSALDQ				
exoO	PAIDKV.PDVTFVVAAYNSADTIV	RAIESALAO				
					<b></b>	

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J	Cerevelage Respondentationers territorers the transfer of the content of the cont	
neuB	GEITNVPYLQHCASKKLPLIISTGMCDLQEVRVAIDTVKPYYGNSLNSLSDYL	185
gumD	ISHYLSRNPWVGMNMVGYFRTPYDL.AVAEQR	201
gelB	DAVA	214
dpsB	NAVAQMLHR.LGTTVIGFDR	214
spsB	GAVA	214
crdS	HAQNSGKFDIHPSDEQ	629
bcsBI		12
bcsAI	QVVIHAVLDGEEMNLPATMIRSAQGKAVFTWSISNIQVEAAVVRFVFGRADAWLQWNNYEDDRPLRSLWSLILSIKALFRR	703
bcsABII-A	TVRYDSARDGIHVGVPARVLDARDGTLRLRWAVRDLEDERQVVSMVFGRNDAWAGWADFAPDRPLRSLAMVFRSIGGLLRR	701
pslF		395
gumI	GWVFLYEGEFDAALLSGMLDQVRAAPRGPAPDLSQRDWPRIGQLHYRTYLEALGKDGDAAL	349
pelF		501
pslI	PRFSPSDGAALERLMLRLADAPREASAEELIAWAARFNREAYRQRLAALIEEL	366
gelK	GEHYDDHQEEIAQTFADRGLLQAVRDERELGAAVAAAKATEPRLATTDHTALAARL.RTLLAEWGAKR	348
dpsK	GEHYDDHQEEIAQTFADRGLLQAVRDERQLGAAVEAAKATEPQLATTDHTALAARL.RQLLAQWSAKR	348
spsK	GEHYDDHQEEIAQTFADRGLLHAVRDERELGAAVEAAKATEPQLATTDHTALAGRL.RELLAQWSAKR	352
gumH	SGVARYDWRHVVGRYIDEYHAALGTPRTQEAVR	380
gumM	EWLKRYSWDLLVFFRTCLRAGKQLA	263
hasA	KRIEDYVRDTGYPLAEIYVVDDG <mark>S</mark> ADETGIKRIEDYVRDTG	122
sleD		62
exoA	IARRLAT	62
icaA	PEKEIIIINDG <mark>S</mark> SDNTAEIIYDFKK	99
pgaC		127
sleC	GFRRGQNRLAEIEGVVPVVLGETADGQFLQRMAAVAK	70
exoL	GFRRGDNPLAAIDGVEPIELGTTADGRFAQRIGAVAR	70
alg8	MVYRSVIREAID <mark>S</mark> GYPTTVVCSIVEMSDEVLVRSLWEKMNP	146
pmHAS	VVDLEVCICNDGSTDNTLEVINKLYGN.NPRVR	498
epsH	DNRFKMDNIEIIIVNDGSADASPDIAEEYAKM.DNRFK	62
epsJ	LSDIEIILVNDGTPDRSGE.IAEDYAKR.DARIR	61
dpsQ		55
gelQ	CVDGIAAA.APNTPYEILMIDNGGGDTEAFVR	55
spsQ		55
pslH	SVNGLSAE.LQRTATELLREP	107
sleW	YQDFDLVIVDDESPYPIDQELAELSQE.QKDRIL	70 62
exoW sleE	LEDFHVLVIDDE <mark>S</mark> PYPIADELAGLAQE.ERERIT	62 74
exoM		67
pslC	RARLRVIVADNDAEPSARALVEGLRPE.MPFDIL	57
gelL	RGSFEIIVGDNNSPCGIAAVEAVV.AGRGRV	62
	RGSFEIIVGDNNSPCGIAAVEAAV.AGRGRV	62
dpsL	REAFEIIVGDNNSPCGLAAVEAAV.AGRARI	62
spsL sleU	E.VGEVVVIDDGSTDTTSDVAHAADDG.TGRLRV	62 64
exoU	E.VGEVVVIDDGSTDTTSDVAHAADDG.TGRLRVE.AAEVVVIDDGSTDDSASVARAADDG.TGRLNV	65
sleF	GVTLEVIVVDDRSADDTIPFVEAIAAI.DPRVRL	67
exoO	GVILEVIVVDDCSADATPALVAAIP.DPRVRL	67
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	Yero Vero Vero Vero	S S ARNA	VAMOTI ADEROI DVAVARILITA	
neuB	VLLHCTSNYPASYQDVNL.		KAMOTIADEFOLPVGYSDHTI.	
gumD	QGLPCLGDPDELIEYL.			
gelB	VVVACT			
dpsB	VIVACT			
spsB				ILVPQ 244
crdS	KAPENVAEQGDLMKSMRILLA			654
bcsBI	ATGAQAAPIASKAPAHQPTGSDLPI	1 D A A A D W A D A A		
bcsAI	K.GQMIAHSRPKKKPIALPVERREPTTSQGGQKQEGKI.			
bcsABII-A	R.PAEAPRALHEMGEGELPATEEKLEKQSFVLKI			
pslF	tt. I ALAI ItALIILIIGEGEEI AILLINELINGOI VENI		•	
gumI				
pelF	EATEIA			
pelr pslI	S			
gelK				
dpsK				
1				
spsK gumH				
${\tt gumM}$ has A	DLSSNVIVHRSEKNO			PDALEELLKT 175
sleD		GACTNIAVA	TEC EDEDVITOTORY CDVD	DDYCQRLIED 115
	EDPRVIFLDNPKRI	DAGINLAVA	EIG AGGDVITDIDAN GUIP	DDICURLIED 115
exoA		GRANAI NEC	TVO ACVENUMCIDAD TUTO	DDYCERLVED 115 DDAPFYMIED 150
icaA	VIHLAQ.NO	GRANALNEG	I K Q A S Y E Y V M C L DAD . I V I D	DDAPFIMIED 150
pgaC	ASLSLGKVLNGIPAI	GKALALKIG	AAA AKSEYLVCIDGD . ALLD	RDAAAYIVEP 179
sleC				
exoL	ALGHVRKI			
alg8	VSLDFVRII			
pmHAS	IMSKPNGG	A. SASNAA	/SFAKGYYIGQLDSD.DYLE	PDAVELCLKE 543
epsH	VIHQENQGI	G. AVRNKG	LEAARGEFIAFIDSD.DWIE	PDYCEQMLRT 107
epsJ	vihQAndgu	S. SARNIG	IKAARGIYIGFVDGD.DYVS	SAMFQRLTEE 106
dpsQ	QVPSEGNIGH	GAGNNRLAA	QAAGPLLLLVNPD.AIPQ	PGAIDQLVTF 108
gelQ	ÀVPSEGNIGH	GAGNNRCAA	HARGQYMMLVNPD.AVPQ	PGALDRLVAF 108
spsQ	AVPSEGNIGH			
pslH	VEHSYSFQI	YERPLRDAGUPFVLTEHNVESSLGAAT	YDRLPGWALPFVRYD.QWRY	RRWERRVMSQ 177
sleW	VIKQANAGI	G.GARNIG	LDNVPDGTDYVAFLDSD.DIWT	PDHLRNAAFA 117
exoW	VIRQPNGGH	G.GARNIG	LDNVPADSDFVAFLDSD.DVWI	PDHLLNAYQS 109
sleE				
exoM	YVHCPHSNI		LDNSTGDFLAFLDDD.ETVS	
pslC	IEP.ASFNI	IGGTRRWA	SQQVEADALIYLTQDAIPAS	
gelL	VPV.LEKGA	G.PARNGA	AAAARGEVLAFTDSD.CVVA	PGWLAGGVAQ 106
dpsL	VTI.LEKGA	G.PARNGA	AAAARGEILAFTDSD.CVVE	PGWLAGGTTR 106
spsL	VTI.LEKGA	G.PARNGA	AAEAQGEILAFTDSD.CVVE	PGWLAGGVAH 106
sleU	VRFDVNRGI	'SAARNHA	LSISSAPLISILDAD.DFFF	HGRFAAMLAD 109
exoU	VRFEENRGI	'AAARNHA	LAISHSPLIGVLDAD.DFFF	PGRLGQLLSQ 110
sleF	LALEENRGH	G.GARNAG	LEAATGRWIAVLDSD.DVIR	PERSACMMCR 112
exo0	IALDRNRGH	G.GARNAG	IGAARGRWIAVL <mark>D</mark> SD.DTVR	PDRLRRMIER 112
consensus		*	* *	

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	LAVGMGACVIEKHFTMDKS
J	LFLDFGLLNQSAEQIGSVPVINLRQGGVDRDNYFVVAKALQDKIL.AVIALMGLWPLMLAIAVGVKMS
J	FN
	FN
7	FNVSQGPLNMPNRAKKRALDLLI.TVPALVALAPLMIVVAILIKLE
-	
	AAGVGTDVATVHTYSLQEL.GAQSALTMRGAAPLQGLQFGIPADQLVTSARLVVSGAMSP.NLQPDNSAVTITLNEQYIGTLRPDPTHP
I	AAGVGIDVAIVNIISEQEE.GAQSAEIMAGAAFEQGEQFGI
I-A V	VADRISDAEVTRTLTFRNLGATTGPLTLRGYSPLQGLDVVVPANRVVTHAQLTLSGALSP.SLLPEASAVTVTLNEQYVGTLKVDPQHP
J	FGHLNVRNRQTNLLTRLTDIRYDNAFGVERAAQ
1	AEAMDTVGHGLF.QKATAIAQNSKLGNGGSKH
	ALATGADSVVVTAFAQNSKLGNGGSKH
	FKGNPRIRNKSSIL.GKIQTIEYASIIGCIKRSQ
	MLGNPRIRTRSTLV.GKIQVGEYSSIIGLIKRTQ
	AQRYFPVLLQENKVLALDDTIAATPRPR
	AESQLPPMLLENKVLEIDGTVERRTASPAK
	FKTGRMSVFRARVVTNPEFIFKLEITSSFAFTEHTFRFESGIGAFFMELENKVEEIDGIVERRIASFAR
1	FLVNPDGSLIANGYNWPEFS
1	
I	AEDIVGCGFYKQSSDRRTYVPPQLEANRVLTKPEM
	AKQHPEAAAWGGRSYSPSGDLEPANFMSLPTPADFLTAIFNARALRSGGL.QEG
	ARAHPAHPEAAAWGGRSYDTAGKLDPGNFLPLPTPMDFVASIVSARRLRRGGL.AED
	AKAHPAHPDAAAWGGRSYFPNGQLDHANFLPLPTVRDFVVSIFSSSPMRRGGL.PAD
	AAVTEKDARQLGAMLGRPVPVVVNGVDCEHF
	LTGECYWASMQASDEFYYHFAISELEKNEGAARLSEKPLVIELPDLASVMLRNWSF
	MTADCYWASITGGDAFYYHFGVADLEKSETVTRLSESPLVVELPELQDVMLKNWSF
	ADPVTAVYRDNAPGW.MKRGDFHSTVPVWVNGEIITGY
I	ARAAAVLGPVRAHYGPTAPRW.MRSGDFHSTLPVWAKGEIRTGY
J	LADIGVAYGRQLPHPGAGLLGAQARRFNYPPESRSKRLADASELGIKT
	VAPGAVAFDNEGYVRRAQY
	VARFIGGHMYVRKPEGPPNGAEAL.EMALAFDNEGYVRRTQF
	VAPGALAFDNEGYVRRAKF
	DD
1	
	DC $\Gamma$
Ι	DGDFIADNIAFIDAAQAATAHGRIDRFAPTPRLIDLVGFVEGNISRRGV.RRG
I	DGWDFIADNIAFIDAAQAATAHGRIDRFAPTPRLIDLVGFVEGNISRRGV.RRG AEAANADIAVDNLDVVYTDGRPMETMFPEEFL.EERPVLTLEDFISSNILFRSTF ADAAGAQIAVDNLDVVSLDGRSLR.MFSEAEL.ARLPQLTLPAFIESNVLFRSEH

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neuB	LPGPDHLASMDPEEMKNLVQSIRDAETVLGSGEKKPSI	DNELPIRAL VRRSITL RRDL VKGAOISKEDLILL RPGTGIAPSEIS
gumD	SPGPVFFRQRRHGLGGREFYMFKFRSMRVHDDHG.TTIQQATKNDTRITRFGSFLRRSS	
gelB	SPGPVLFAQDRVGRGNRLFKILKFRSMRQALCDA.NGNVSASRDDDRITKVGRFIRKTS	
dpsB	SPGPVLFAQDRVGRGNRLFKIMKFRSMRVTLCDA.NGNVSASRDDDRITKVGRFIRKTS	TDELIQUENVER
apsB spsB	SPGPVFFAQDRVGRGNRLFKILKFRSMRVALCDA.NGNVSASRDDDRITKVGRIIRKTS	TDELFQUENVER
spsb crdS	SFGFVFFAQDNVGRGNRLFRILRFRSMRVALCDA.NGNVSASRDDDRIIRVGRIIRRIS.	
bcsBI	AFGPLSFDINPIFFVS0	
bcsAI	AFGPLSFD	
ocsal ocsABII-A	QFGPVSFDIDPLYFTGI	
slF		
gumI		
elF		
slI		
elK		
lpsK		
spsK		
gumH		
gumM		
asA	S.VTGNILVCSGPLSVYRREVVVPNIDRYINQTFLGIPVSIGD	DRCLTNYATDLGKT
leD	REGAKGHWIDHGHHALMRIAAFDAVGG.Y.DESFSHNEDAELDF	
xoA	RTGAVGHWAEHGHHALMRIEAFKAVGG.Y.DESFSHNEDAELDY	
caA	S.LAGAINTISGVFTLFKKSALKDVGY.W.DTD.MITEDIAVSW	
gaC	R.IYGNVFTVSGVIAAFRRSALAEVGY.W.SDD.MITEDIDISW	
leC	APAPGEPWKIGWFGALRCRKSLEILAEFARRME.GRV.EIILRGRPAYSEFADFDGFVA	
xoL	SPPPGAPWKIGWFGALRCRRSLALLAEFSRKME.GRF.EIVLRGRPAYSEFDDFDGFVR	NEPFMRFEGAYRNPE
lg8	.TDVENDHLEHWRLGRF.KFLTGDDKSSWFS	DT
mHAS	.REKLTTAMIAHHFRMFTIRAWHLT.DGF.NEKIENAVDYDMFLKLSEVGKFKH	LNKICYNRVLHGDNTSI
psH	EHYIKALFEGKVRGFSWNKL.YRR.S.MIEAHRLSFPLRGELEH	
psJ	TEQLKHAHETRFIWYVWRYL.YRR.E.LFERANLLFDEDIRF	
psQ	ATTPGAVEVLNGGFMMVRTDVWQAI.GGF.DESFF.LYSEEIDLFQ	
elQ	ATEPGPVDVLNGGFMMVRADVWREI.GGF.DESFF.LYSEEVDMFK	
psQ	ATAPGPVEVLNGGFMMVDARVWREI.DGF.DEGFF.LYSEEIDLFQ	
slH	ATARPTPEAQRVLFLGNYEY.APNVDAVEWML	
leW	LHLSCMVIGRPLFEK.IRF.DPALR.LAAEDVLFFC	DSTIA SK RT
xoW	LHMSCMVIGRKLFEK.VRF.EATLK.LAAEDVLFFC	DCVI A SK RV
leE	TCNTLLRMEAPSVKG.RRF.ALALGQSGGEDTHFFS	HI HAA CC RT
xoM	TCNALLRRDAASLLG.RRF.KLSLGKSGGEDTDFFT	
slC	CFSSDSFSAYRSDALAAV.GDF.PEDVIGSEDAYVAA	
	TVTANLFVMRADFERVGE.FRTGVSEDMEWCH	DATAN CI TT
elL	TVTANLFVMRADFERVGE.FRVGVSEDLEWCHTVTANLFVMRADFERVGG.FRVGVSEDLEWCH	
psL 	IVIANLEVIRADEEVIGGERVGVDEDLEWCH	DATAT CI AT
psL	TVTANLFVMRADFERVGG.FRTGVSEDLEWCH	ALAIGLAL
leU	ETGFLKPVIRRAFLDKHA.LRY.DEALRLGEDYELYV	
xoU	EIGFLKPLMRRAFLDQHG.LRY.NETLRLGEDYDLYA	
sleF	NFGYMKPMFRRDFLNNEA.LRF.REDIRIGEDYILLA	
exoO	NFGYMKPIFERRFLENQQ.LRF.DEALRIGEDYILLA	

neuB NIVGSRLSMNL.SAGTTLLWEHIEA. gumD SIVGPRPHAAQHNT.H.YEKLINHYMQ. gelB SVVGPRPHALGSRAADHYFWEIDERYWH. dpsB SVVGPRPHALGSRAADHLFWEIDERYWH. spsB SVVGPRPHALGSRAANHLFWEIDERYWH.	356 420
gumDSIVGPRPHAAQHNTH.YEKLINHYMQ.gelBSVVGPRPHALGSRAADHYFWEIDERYWH.dpsBSVVGPRPHALGSRAADHLFWEIDERYWH.spsBSVVGPRPHALGSRAANHLFWEIDERYWH.	
gelB       SVVGPRPHALGSRAADHYFWEIDERYWH         dpsB       SVVGPRPHALGSRAADHLFWEIDERYWH         spsB       SVVGPRPHALGSRAANHLFWEIDERYWH	420
dpsBSVVGPRPHALGSRAADHLFWEIDERYWHspsBSVVGPRPHALGSRAANHLFWEIDERYWH	
spsB SVVGPRPHALGSRAANHLFWEIDERYWH	407
	407
	407
crdS	654
bcsBIKGCAD.PTNGLQWASVSEH.SQLQITTIPLPPRRQLARLPQPFFDKTVRQKVVIPFVLAQTFDPEVLKASGIIASWFGQQTDFR.G.VNF	282
bcsAI	745
bcsabii-ARDCND.LFNEILWARISDM.SRITLTTVRITPERKLSRLPAPFFDPNQRSTLRVPVVLPATGDRGALRAAGLVASWFGRIADFR.K.LSF	1000
pslF	395
$\operatorname{gum}$ I	349
pelF	507
psII	367
gelK	348
dpsK	348
	352
	380
gumH	
gumM	263
hasAVYQSTAKNPFVALWTILEVS	329
sleDTYYPRAS	261
exoAVYYPRAKMLPLAVAPIA	261
icaAKYEPRALCWMLVPETIGGLWKQRVRWAQGGHEVLLRDFWPTIKTKKLSLYIL	293
pgaCFYEPRALKENFRMWPLLKGLWKQRLRWAQGGAEVFLKNMTRLWRKENFRMWPL	322
sleCDLAAIYNEVQFTWAIDFFEEGQNSSWLLPNRLYEGCLYGTLPIALAGTE	311
exoLDLAEIYGEVHFTWAIDFFEEGQNSAWLLPNRLYEGCRHGRIPIAM	313
alg8FYVPDAAINTVEHPPEKSFIKASRKLMYRWYGNNLRQNSRALKLGARRLGWFTMLVLFDQRVSMWTSLLGLVVA	384
pmHASKKLGIQKKNHFVVVNQSLNRQGITYYNYDEFDDLDESRKYIFNKTAEYQEEIDI	699
epsHSYVVQRYQKKLFESGLALYETNAAF	240
epsJKMLTEIPYKPAMDEHLQKQYQAKIAF	241
dpsQLVDPSVKVVHNTGSGQSMSQNRLMYLTTGRMHYARKHFGALGTLATGCALWL.IAAK	269
gelQLVDPGVAVVHDAGSGHSLSSSRIMFMTTGRMHYARKHFTKGGALVTGWAIWL.AALK	269
spsQLVDPAVGVVHDTGGGHSLSPTRVLFLTTGRMHYARKHFGHVGAVVTGWALWA.NAAK	269
pslHEALAAGLPAEWAQRWSDPRIEWQGFVPDLLQLQSSSSVFLAALRHG.GGSKLKVLEALAAGLPLASTAQGVSGLE.LRDG	337
sleWADVASIASYKNTARKQALWS.QAGN	291
exoWVLCDAAGAVRGEGLNIFHSIDNDSPQFLKQQFNTWVALDTLEGRYRNRPKAMEAIRSYKHTARRQALWS.QARR	283
sleEVFAEDAVLSEPVPENRASFLWLAKRRFRSGQ	251
exoMAFSPEAWVHEPVPENRASLAWLAKRRFRSGQ	244
pslCRYAASAEVYHSHDYRLLEEFRRYFDIGVFYGRERWIRAAFGGAGGEGKRYVLAEIQALRA.AGA	260
· ·	222
· ·	222
·	222
sleUKVIRHCGYGAIVRGNSLSGRHRTEDLRLLYEADRAILAGCRLSAEETAILREH.EKHIRAKFE.LRHF	272
exoUKIIHSCGYAAVVRGNSLSGSHRTIDLKRLYEADRAILAGSRLSSDAEAAVRRHERHIRDRYE.LRHF	273
sleFVIEPKPGYIYNIREGSISRVLELHHVEAMMRADEEFLSHYTLLPAAMDAQQARARSLRL.AHNF	273
exoOAVEPSAGYIYHIREGSISRVLRLDHIDAMIAADEAFLRRYALDGLAQKMQHRRMRGFRE.ARSF	272
consensus	

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neuB			356
gumD		RHYVKPGITGWAQVNGFRGETPELRTMKKRIQYDLDYIRRWSLWLDIRIIV	471
gelB		RHTLKPGMTGLAQVRGFRGATDRRIDLTNRLQANMEYIDGWDIWRDITILF	458
dpsB		RHTLKPGMTGLAQVRGFRGATDRRVDLTNRLQADMEYIDGWDIWRDITILF	458
spsB		RHTLKPGMTGLAQIRGFRGATDRRVDLTNRLQADMEYIDGWDIWRDVTILF	458
crdS			654
bcsBI	PVFSTIPQTGNAIVVGVADELPAALGRPSVSGPT		350
bcsAI			745
bcsABII-A	PVSTTIPASGNAVEVGVNLPVDAEGGRPAGPM	· ·	1066
pslF			395
gumI			349
pelF			507
pslI			367
gelK			348
dpsK			348
spsK			352 380
gumH gumM			263
hasA	MFMMLVYSVVD		362
sleD	IFALLSLVHWAALIPLGLWIAACVGY.GLWMAIG		325
exoA	FGALLAIVNWMAVVPVGVWAAACLGY.GVWMALG		325
icaA	MFEQIASITWVYIVLCYLSFLVITANI		348
pgaC	FFEYCLTTIWAFTCLVGFIIYAVQL		377
sleC	TARFIEKRNIGFVLQQAGADDL		370
exoL	TARFLSVRSIGLVLEGADVESL		372
alg8	ILASLKYSIAFLLVYLLWIGLTRLVLTLLLSLSGHRIGPAYPLILYYNQIVGA		480
pmHAS	LKDIKIIQNKDAKIAVSIFYPNTLNGLVKKLNNIIEYNKNIF	VIVLHVDKNHLTPDIKKEILAFYHKHQVNILLNNDISYYTSNRLIK	787
epsH	LQE		280
epsJ	YNH		265
dpsQ	YTLVGAALW		311
gelQ	LLAYQLLGSLLA		311
spsQ	LLG		311
pslH	EDYLGGESAEQLANAVVRLLQDPAQARAL	DWSVAASQ	386
sleW	LKRRKAPEFGLLLKWAMRDPALLRAA		329
exoW	IKRRKLPQFDLLARWLWRDPRLIGSA		319 304
sleE exoM			304 297
pslC	LYRVPEIALRSAFKLLGYRLGQLE		303
gelL	YKERPQGRLRWLARSALQPALLPSDA		279
dpsL	NIERPKGRLRWLVRSVAQPAMIPQDV		279
spsL	NIERPRGRLRWLVRSVAQPAMIPQDV		279
sleU	LDTKKQKGVSGALSHALARLPALPAIT		327
exoU	LDLKNQQGFGRAFGYALTHPAALPAII		336
sleF	LTLVENIKRRSVLGALKTTIRDPAVLG		331
exoO	LVLVEQLKKRSLAGALKTALADPFALR		334
consensus			

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) )	T TTA
	LTA
	KTL
3	KTL
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3	
BI	${\tt GSSALPVASRMDVAPIDVAPRLANDAPSFIPTSRPVRLGELVPVSALQGEGYTPGVLSVPFRVSPDLYTWRDRPYKLNVRFRAPDGASS$
AI	
BII-A	$\verb SPDTLGGVASKVVSDVSLETRHPYDAPAFVPTDRPVRFGELVGAADLQGGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFLMNMWVRAPGGFAPAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPFAGMTLPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPFHLPPDLYTWRGRPPTHTPTHTPTHTPTHTPTHTPTHTPTHTPTHTPTHTPT$
1	
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I	
A	IVALCRNIHYMLKHPLSFLLSPFYGVLDWGTRKKLL
)	RGRKAVS
1	RRRVARVA
1	TVALFIDSRYEKKNIVGLIFLSWYPTLTWSSPPRGNIQ.R
;	IVSLMIENRYEHNLTSSLFWIIWFPVIFWMLSLATTLVSFTRVMLMPKKQRARWVSPDRGILR.G
,	.VQQLSSLAKSASGHAREAQFSPVQFSPV
	.VRQLATLTLQAPQTVPVVAMAGSSHKEGGAMAGSSHKEGG
3	
S	TEAHLSNINKLSQLNLNCEYIIFDNHDSLFVKNDSYAYMKKYDVGMNFSALTHDWIEKINAHPPFKKLIKTYFNDNDLKSMNVKGASQ.G
I	KLRNVGVICADPVFQESLSKTGTAPFDAKRSCLLLMAKYRMIPFVAMASAVYQRVIEYKMRNRG
Ī	MLLANACASPNSPKDIKKKIRQILSYDMVRQAVRHTPFQHEKLLRGERLVLALCKWRLTFLIKLFFEQRGTMK.G
)	B
	KK
	HVRT
	LEQVYAGLAEGAPACA
	шичтпоппшит поп
	IROYGAVEAT
I	IEQYGAREVT.SA
!	TEQ10A16EV1.DA
	LLOLLGRPA
	LLQLLGRDI
	LLQLLGRPI
T T	VS
	VDQPQK
	ERSPLGNDPRISKG.

	esterna saur de la company de	
neuB		356
gumD	VRVLGQKTAY	484
gelB	RVIVH.SNAF	470
dpsB	RVIVH.SNAF	470
spsB	RVIVH.SNAF	470
crdS		654
bcsBI	PILDVARSHLDVGINNTYLQSYSLREQSSVVDQLLRRVGVGTQNAGVEQHTLTIPPWMVFGQDQLQFYFDAAPLAQPGCRPGPSLIHMSVDPDSTIDLSNAYH	539
bcsAI		745
bcsABII-A	PVVDLETSRVDVSLNNNYLQSYTLSPPGLWRKWSERLVNQHAGAVGHVTALPPWLLFGQNQLQFNFDARPIDRGACRRTPGDIHMSVDSDSTLDFRRGYH	1252
pslF		395
gumI		349
pelF		507
pslI		367
gelK		348
dpsK		348
spsK		352
gumH		380
gumM		263
hasA		417
sleD		332
exoA		330
icaA		412
pgaC		441
sleC		393
exoL	.FL	403
alg8	LLTIV	494
pmHAS	MFMTYALAHELLTIIKEVITSCQSIDSVPEYNTEDIWFQFALLILEKKTGHVFNKTSTLTYMPWERKLQWTNEQIESAKRGENIPVNKFIINSITL	972
epsH		344
epsJ	SAKQA	344
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
consensus		

	**************************************
- - -	ITRMPNLAYMASAGYPFTTYADLSRSAVVLPDHPNGTVVSAYLDLMGFMGATTWYPVSGVDIVSADHVSDVADRNLIVLSTLSNSADVSALLANSAYQISDGRLHMGL
II-A	FAEMPNLSYFAEAAFPFSRMADLSETTVVLPDHPDTGTTGAFLDLMGFFGASTWYPAAGVTVMGADEVAHTPPKGDIVVLGTAAOLGGAASGLLARSPYVIHDRHITVGO
II K	TABII WEDITABAATTO WIITADEDETTVVET DIII DIGITAAT EDENGITAADI WITAAD VANDEVANDI TABII

	Restagyway Follow was property Taylor and the same of
euB	
ımD	
elB	
sB	
sB	
dS	
sBI	RSTLSGVWNIFQDPMSVMSNTHPTEVETTLSGGVGAMVEAESPLASGRTVLALLSGDGQGLDNLVQILGQRKNQAKVQGDLVLAHGDDLTSYRSSPLYTVGTVPLWLIPD
sAI	DAG TO THE TOTAL AND A DESCRIPTION OF THE TOTAL AND A DESCRIPT
sABII-A	RMGLQGIWYLFQDHDHAGLKDGVTANLNAPIAEAGVLLAAQSPYDSQRSVVAFTGDTPERIHDLVLSLRNKGDLPSLQGDLVLKNGDRFTSYRTAPVYTVGSLPLWLRLD
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	WesterbHP and the State Leaders Leaders Rowe Rowe Reserve Reserve English	
neuB		35
gumD		48
gelB		47
dpsB		47
spsB		47
spsb		
crdS		65
bcsBI	WYMHNHPFRVIVVGLVGCLLVVAVLVRALFRHAMFRRRQLQEERQKS	80
bcsAI		74
bcsABII-A	WFLGHHPSALYLAGLAGAGLAALGVWAWLRGWSRKRIARDDLTGEL	151
pslF		39
gumI		34
pelF		50
pslI		36
		34
gelK	••••••	
dpsK		34
spsK		35
gumH		38
gumM		26
hasA		41
sleD		33
Aoxe		33
icaA		41
ogaC		44
sleC		39
exoL		40
alg8		49
omHAS		97
epsH		34
epsJ		34
dpsQ		31
gelQ		31
spsQ		31
slH		40
sleW		32
exoM		31
:xow :leE		
		31
Moxe		30
slC		30
gelL		28
lpsL		28
spsL		28
sleU		32
exoU		34
sleF		33
		34
exo0	•••••	34
consensus		

 $\overline{X}$  non-conserved  $\overline{X}$   $\geq 50\%$  conserved