

	10	20	30	40	50	60
TCLP I	MICYFLSLFFLNGEVAEVCFTYVSFLFFFFFFTSAL			FFSNNRKVERKLRGGKLLPGGWHT		
MOQ_005905	-----					
TCSYLVIO_007169	-----					
LbrM.04.0910	-----					MS
LtaP04.0700	-----					MT
LmxM.04.0710	-----					M
LmjF.04.0710	-----					M
LinJ.04.0710	-----					M
LDBPK_040710	-----					M
TcCLB.504137.70	-----					
MOQ_003496	-----					
LbrM.31.0930	-----					
LmjF.31.0740	-----					
LmxM.30.0740	-----					
LinJ.31.0770	-----					
LDBPK_310770	-----					
TcIL3000.10.8010	-----					
Tb927.10.9240	-----					
Tbg972.10.11310	-----					
TvY486_1009120	-----					
TcCLB.504057.50	-----					M
MOQ_006328	-----					
TCSYLVIO_003797	-----					
LtaP34.3080	-----			MRVGVTVSVEPLFLSLYCTCCFFFW		
LbrM.20.2750	-----					
LmxM.33.3170	-----					
LmjF.34.3170	-----					
LinJ.34.2950	-----					
LDBPK_342950	-----					
Chl.trachomatis	-----					
Simk.negevensis	-----					
Wad.chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	70	80	90	100	110	120
TCLP_I	LEPVPAKKDP	MNANDVLTVISPD	DGKRFRINIKG	DIGRLTIGRLKQCLATASSYSVPVAD		
MOQ_005905	-----	MNVNVLTVISPE	DGKRFRINIKG	DIGRLTIGRLKQCLSTAS-YSVPVAD		
TCSYLVIO_007169	-----	MNANDVLTVISPD	DGKRFRINIRGD	DIGRLTIGRLKQCLAAASSYSVPIAD		
LbrM.04.0910	TANAA-AAARSQ	PREHLNIIYPDE	EGKRYKLNVRAPIS	RLTVGKVKQCLA	AVSSCPIPLNK	
LtaP04.0700	SVNAVAAAAASQ	PREHLNIIYSDE	EGKRYKLSLRTPI	ARLTIGKVKQCLA	AASSCPIPLRD	
LmxM.04.0710	STVNAFPAAPPQ	PREHLNIIYSDE	EGKRYKLSLRTPI	IGRLTIGKVKQCLA	AASSCPIPLQD	
LmjF.04.0710	SAVDALAAAPSQ	PREHLNIIYADE	EGKRYKLSLRTPI	IGRLTIGKVKQCLA	AASSCPIPLHD	
LinJ.04.0710	SAVDALAAAPSQ	PREHLNIIYSDE	EGKRYKLSLRTPI	IGRLTIGKVKQCLA	AASSCPIPLQD	
LDBPK_040710	SAVDALAAAPSQ	PREHLNIIYSDE	EGKRYKLSLRTPI	IGRLTIGKVKQCLA	AASSCPIPLQD	
TcCLB.504137.70	-----	MDDKQAFFVQSE	DGRKFKMVIRGDL	GKLSVGKIRRYLKS	YG-----IPD	
MOQ_003496	-----	MDDKQAFFVQSE	DGRKFKMVIRGDL	GKLSVGKIRRYLKS	YG-----IPD	
LbrM.31.0930	-----	MEERQAFFVEST	DGRKFKMVIRGDL	GKLSVAKIRRYLRS	YG-----VPE	
LmjF.31.0740	-----	MEEEKQAFFVESV	DGRKFKMVIRGDL	GKLSVAKIRRYLKS	YG-----VPE	
LmxM.30.0740	-----	MDEKQSFFVESS	DGRKFKMVIRGDL	GKLSVAKIRRYLKS	YG-----VSE	
LinJ.31.0770	-----	MEEKQAFFVEST	DGRKFKMVIRGDL	GKLSVAKIRRYLKS	YG-----VPE	
LDBPK_310770	-----	MEEKQAFFVEST	DGRKFKMVIRGDL	GKLSVAKIRRYLKS	YG-----VPE	
TcIL3000.10.8010	-----	MDDKQAFFVMGV	DGRTFKMVIRGDL	GKLSVGKIRRYLKS	YG-----VQD	
Tb927.10.9240	-----	MDDKQAFFVRCI	DGKTFKMVIRGDL	GKLTVGKIRRYLKS	YG-----VQD	
Tbg972.10.11310	-----	MDDKQAFFVRCI	DGKTFKMVIRGDL	GKLTVGKIRRYLKS	YG-----VQD	
TvY486_1009120	-----	MEADDKQAFYVQ	CADGRKFKMVIRG	DLEKLSVGKIRRYL	KS	YG-----VKD
TcCLB.504057.50	TNKKKMSNSET	GGTRCVYVLSDI	DGFKYRLVMEGDV	RLLTTSKLKRYLQ	NATGL---SAQ	
MOQ_006328	-----	MSKSETGGTRCV	YVLSDIDGFKYRL	VMEGDVRFLLTTS	KLKRYLQSATGL---SAQ	
TCSYLVIO_003797	-----	MSNSETGVIRC	YVLSDIDGFKYRL	VMEGDVRLTTSKL	KRYLQ	NATGL---SAQ
LtaP34.3080	TVVMESSTTLAT	PTSCVYVLSDV	DGYKYQLVMQGDV	ELLTVRKVKRYLQ	RAAGI---DPA	
LbrM.20.2750	---MELPSETAP	PTTSVYVLSDI	DGYKYKLVMQGDV	ELLSVRKVVKRYL	QRAAGI---HPA	
LmxM.33.3170	---MESSTAAA	APTTCVYVLSDV	DGYKYKLVMQGDV	QLLTVRKVKRYLQ	RAAGI---NPA	
LmjF.34.3170	---MESATAAA	APTACVYVLSDV	DGYKYKLVMQGD	LQLLTVRKVKRYL	QRAAGI---DPA	
LinJ.34.2950	---MESSAAAA	APTTCVYVLSDV	DGYKYKLVMQGD	LQLLTVRKVKRYL	QRAAGI---DPA	
LDBPK_342950	---MESSAAAA	APTTCVYVLSDV	DGYKYKLVMQGD	LQLLTVRKVKRYL	QRAAGI---DPA	
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	130	140	150	160	170	180
TCLP_I	QVIKFN	GTPLTR	DDEVCA	AYGIMN	GSTLTVE	HRA-----
MOQ_005905	QVIKFN	GAPLTR	DDEVCA	AYGIMN	GSTLTVE	HRA-----
TCSYLVIO_007169	QVIKFN	GTPLTR	DDEVCA	AYGIMN	GSTLTVE	HRA-----
LbrM.04.0910	MVLHLN	GVPLSS	DKDLCS	SLGIGN	GATLSLE	ARHTPNKYNSEEDGGDG-----G
LtaP04.0700	MVLHLN	GVPLSN	DKDLCS	TLGIDN	GATLSVE	PRHPSHQYNDDDDGGGRDAWQGHSPQM
LmxM.04.0710	MVLHLN	GVPLSN	DKDLCS	SLGIGN	GATLSVE	PRHPPRKSNGGESDGDGDWQQRHSPRR
LmjF.04.0710	MVLHLN	GVPLSN	DKDLCA	SLGIGN	GATLSVE	PRHPPRRRCNGGEGDGDGGAWQQRHSP
LinJ.04.0710	MVLHLN	GVPLSN	DKDLCS	SLGIGN	GATLSVE	PRHPPRQCNGGEGDGDGGAWQQRHSP
LDBPK_040710	MVLHLN	GVPLSN	DKDLCS	SLGIGN	GATLSVE	PRHPPRQCNGGEGDGDGGAWQQRHSP
TcCLB.504137.70	GQLLLH	DGVVLE	DSAVGG	DFGLKN	NSMLQL	VSPRRG-----
MOQ_003496	GQLLLY	DGVVLE	DSAVGG	DFGLKN	NSMLQL	VSPRRGT-----
LbrM.31.0930	NQQLLS	GDRVLE	DDMLGE	DFGLEDE	GVHLHL	WEPSVSR-----
LmjF.31.0740	NQLLLA	GNRVLE	DAMLGE	QFGLNE	GVHLHL	REPTTVQ-----
LmxM.30.0740	KQLLLA	GNRVLE	DTMLGE	QFGLNE	GVHLQL	RDPTTMQ-----
LinJ.31.0770	NQLLLA	GNRVLE	DSMLGE	QFGLNE	GVHLHL	QEPTTMR-----
LDBPK_310770	NQLLLA	GNRVLE	DSMLGE	QFGLNE	GVHLHL	QEPTTMR-----
TcIL3000.10.8010	GMQLLF	NGTALT	DDQVG	HEFGLC	NNATLN	LA-----
Tb927.10.9240	GMQLLF	NGLSLA	DEQVGS	DFGLCN	GATLHL	GPPSFSEPAVPQORTHGQ-----
Tbg972.10.11310	GMQLLF	NGLSLA	DEQVGS	DFGLCN	GATLHL	GPPSFSETAVPQORTHGQ-----
TvY486_1009120	DLRLIF	NGMVL	DDKELG	ADFG	LHNNAV	LQLEDPVPER-----
TcCLB.504057.50	QQELSF	RGRVMQ	DGECGG	DVGLVD	GAVLQL	RHVKGMRRTNSGDGRR----VNRLPSSSM
MOQ_006328	QQELSF	RGRVMQ	DGECGG	DVGLVD	GAVLQL	RHVKEMRRTTHSGDGRC----VNRLSSSSM
TCSYLVIO_003797	QQELSF	RGRVMQ	DGECGG	DVGLVD	GAVLQL	RHVKMRRTNSGDGRRVNRLPSSSM
LtaP34.3080	QQLLSF	NSVALD	DTMTGK	DAGLFD	GAILRL	QQVSSSPAALATGISTDAWPYHSTLGGPG
LbrM.20.2750	QQLLSF	NSVELN	DTMSGK	DAGFFD	GAILRL	QQVSPSSAGRATCTSASGASPRLSAHKGPG
LmxM.33.3170	QQLLTF	NSVALH	DTMSGK	DAGFFD	GAILRL	QQVSSSSAALAKCISACGASPFHSSHGVPG
LmjF.34.3170	QQLLTF	NSVALD	DTMSGK	EAGFFD	GAILRL	QQVYSSSAALAQCISADGSSPFHSAHGGPG
LinJ.34.2950	QQLLTF	NSVALD	DTMSGK	DAGFFD	GAILRL	QQVSSSSAALAQCISVDGASPFHRAHGGPG
LDBPK_342950	QQLLTF	NSVALD	DTMSGK	DAGFFD	GAILRL	QQVSSSSAALAQCISVDGASPFHRAHGGPG
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	190	200	210	220	230	240
TCLP I						NVDPTTDHTASFVS
MOQ_005905						NVDPTRDHTASFAS
TCSYLVIO_007169						NVDPTTDHTASFVS
LbrM.04.0910	AKGAQSPV					GAATPGAAASPLLSISSPMS
LtaP04.0700	VNGTQSPV					CAAAAGPTTSCSPSSPFPMS
LmxM.04.0710	ARDAQSPV					GAAAAGATAPSSPSSPLPMS
LmjF.04.0710	ARGTPSPV					GAAAAGSPASSSLSPFPMS
LinJ.04.0710	ARGTQSPV					GAAVAGSPASSSLSPFPMS
LDBPK_040710	ARGTQSPV					GAAVAGSPASSSLSPFPMS
TcCLB.504137.70						TVAAEVRSKPTSDPTPHVSG
MOQ_003496						VAAEVRSKPTSNPTPHVSG
LbrM.31.0930						RPETAAIPSAPPPQ
LmjF.31.0740						HLAPAAVPSTAQ--
LmxM.30.0740						HLAPAAVPSTAPQQ
LinJ.31.0770						PLAPAAVP-----
LDBPK_310770						PLAPAAVP-----
TcIL3000.10.8010						VESSVQPPNLPK
Tb927.10.9240						GFSDEAAGSRTGDPTDTPHS
Tbg972.10.11310						GFSDEAAGSRTGDPTDTPHS
TvY486_1009120						AAEDS
TcCLB.504057.50	SMGGVAHR					GRSSVVDAASCASPTAGLLT
MOQ_006328	SMGGAAHR					GRSTVVDAASCVSPTAGLLT
TCSYLVIO_003797	AHR					GRSSVVDAASCASPTAGLLT
LtaP34.3080	TASSFPAPPLGAEHGGNRTSTGRKDFFLEETPSGMSATM-TIPALRAPQQMSNPRDLAP					
LbrM.20.2750	SASSNTV-SFRTQDNDSTSPRKGDFVVDGTSALISAPAVRATIHTQQVVSSTPRALPPP					
LmxM.33.3170	CASLLTAPPARGAQDPDTRTSPRRDGSFFAETSPRLSAPA-ARGVVGVPQLIGSPRALPPP					
LmjF.34.3170	CASSFTAPPARGAQDPGTRTSPRGNGSFFAEASPRLSAPA-TRGAVGASQLISSPHALPPL					
LinJ.34.2950	CSSSFTALPRGEQDTGTRTSPRGDGSFFAETSPRLSASA-ATGVVGAPQLISSPRALPPP					
LDBPK_342950	CSSSFTALPRGEQDTGTRTSPRGDGSFFAETSPRLSASA-ATGVVGAPQLISSPRALPPP					
Chl.trachomatis						
Simk. negevensis						
Wad. chondrophila						
Parachlamydia						
Protochlamydia						
Yersinia pestis						
Salmonella(1jyoD)						
Pseud. syringae						
Salmonella(3epuA)						
Escherichia coli						

	250	260	270	280	290	300
TCLP_I	PHRQALEYQTIR-----	QQEEILGDEVLGHDNTLQVKIDQLQDQVEAAEKKKKMKIAREKE				
MOQ_005905	PHRQALEYQTIR-----	RQEEILSDEVLGQENTLQVKIDQLQDQVETA EKTRMRIEREKE				
TCSYLVIO_007169	PHRQALEYQTIR-----	RQEEILGDEVLG YDNTLQVKIDQLQDQVEAAEKKKKMKIAREKE				
LbrM.04.0910	HQRRLLELQTLQ-----	QQDEMLHKDAVVRNDVLRHTLHHVVEEEMDQANLRRRQLERQRE				
LtaP04.0700	RQRRLLELQTLQ-----	QQDEMLHKDSVVRDDVLQHTMHHVVEEEMDRASVRRRQLQRQRE				
LmxM.04.0710	RQRRLLELQTLQ-----	QQDAMLHNDNVVRDDVLRHTMHRVEE EIDQANLRRRQLQRQRE				
LmjF.04.0710	RQRRLLELQTLQ-----	QADEMLRKDDAVRDDVLRHTMHHVVEEEMDHANLHCRQLQRQRE				
LinJ.04.0710	RQRRLLELQTLQ-----	QQDEMLRKDDVVRDDVLRHTMRHVEE EMDQANLRRRQLQRQRE				
LDBPK_040710	RQRRLLELQTLQ-----	QQDEMLRKDDVVRDDVLRHTMRHVEE EMDQANLRRRQLQRQRE				
TcCLB.504137.70	EKRSSSTHRATSADTRARH SERPSSRPLTTATVSHVDPSSMSDGLSHTNV-----					
MOQ_003496	EKRSSSTHRATSTDTHARH SERPSSRPLTTATVSHVDPSSMSDGLSQTNV-----					
LbrM.31.0930	QQQQRPYAP-----					QET
LmjF.31.0740	-----	SRTQLQOKPELSYEP-----				QSA
LmxM.30.0740	QLHIISSSPTAQ-----	SRAQLHQKPQLSYGP-----				QSA
LinJ.31.0770	-----	PTTQ-----	SRAQLQOKPQLSYGP-----			QSA
LDBPK_310770	-----	PTTH-----	SRAQLEQKPQLSYGP-----			QSA
TcIL3000.10.8010	SRGRSDSSASLR-----	RTDIERGRDREQGGTSPPPRNTNSREYQTKAQKTQDDMPDRMN				
Tb927.10.9240	SLSGDSRERN-----	SKADSTHRDPCGG--	LSHADPARGTATYSGGRYNVDKGIPVT			
Tbg972.10.11310	SLSGDSRERN-----	SKADSTHRDPCGG--	LSHADPARGTATYSGGRYNVDKGIPVT			
TvY486_1009120	REVEVVQPSKQQ-----	RKVAAQ GKRTSLSDPHVESRSSA-----				TRG
TcCLB.504057.50	PLQ-GSHPRDGQ-----	NGGEAFTSPPP-----				
MOQ_006328	PLQ-GSQSRDGQ-----	NGGEAFTSPPP-----				
TCSYLVIO_003797	PLQ-GSHPRDGQ-----	NGGEAFTSPPP-----				
LtaP34.3080	LQRLSASQLTGGAEPVMYKAASCMG DVVAGLDYASLPVPEGTTDATGSTVPGVS-GGNSS					
LbrM.20.2750	LRCLSPNQSTGFAEREAHDAASCAKRD TVADIVYPSQAERRSACSATVGTLP TTSWGTS					
LmxM.33.3170	LRRLSPNQLTGGAEREVYDAASCP SRDVVAGMAYSSPLELTGASSATASTPQAIPGGTS					
LmjF.34.3170	LRCLSPNQLAGGAKREAHDAVSCTRR DVVAGMAYSSPPELAGTTGTTASTPQVIPGRTS					
LinJ.34.2950	LRCLSPNKLTGGAECEAYDAASCRRRGV VAGVAYSSPPELAGTTSVTVSTPQVIPGRASS					
LDBPK_342950	LRCLSPNKLTGGAECEAYDAASCRRRGV VAGVAYSSPPELAGTTSVTVSTPQVIPGRASS					
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	310	320	330	340	350	360
TCLP_I	KAERELARLRLOEEVAEKQKRRLTQLREREAQRAARRAADLAARREQLKAEEEATRAVAL					
MOQ_005905	KAERELARLRLOEEVAEKQKRRLTQLREREAQRAARRAADLAARREQLKAEEEAARAVAL					
TCSYLVIO_007169	NAERELAKLRQQEEFAEKQKRRLTQLREREAQRAARRAADLAARREQLKAEEEATRAVAL					
LbrM.04.0910	SADEELQHIKGKEAEAAARERERFAMLQAQEAARASERATQLVERREQLRAEQEAARAVAM					
LtaP04.0700	SAEEELRRINEKEAETARERERLVTLQAQEAARSTERAQAQLAERREQLRAEQEAARAVAM					
LmxM.04.0710	SAEEELQRMSEKEAEAAARERERLALLRAQEAARATERAAQLMERREQLRADQEAARAVAM					
LmjF.04.0710	SAEEELHRMKEKEAEAAARERERLAVLRAQEAARATERAAQLVERREQLRAEQEAARAVAM					
LinJ.04.0710	SAEEELQRMNEKEAEAAARERERLAVLRAQEAARATERAAKLVERREQLRAEQEAARAVAI					
LDBPK_040710	SAEEELQRMNEKEAEAAARERERLAVLRAQEAARATERAAKLVERREQLRAEQEAARAVAI					
TcCLB.504137.70	VSSTALESNMNSKNNGKNLGSSLSATLEVENSRRLRDEVDRHLHQELSELGRQKCGDGGVR					
MOQ_003496	VSSTALGSNMNSKNNGKNIGSSLSATLEVENSRRLRDEVDRHLHQELSELGRQKCGDGGVR					
LbrM.31.0930	WRD---EPAARSTQEMEREIERLQRQVDAAVARNADLENQLAQAAANSSADYAAHRGASEA					
LmjF.31.0740	WRETRYEPAAHDARQMOREIERLQRQVEAAEARNADLEHQLEQVAESSAPYPFRGGAGGA					
LmxM.30.0740	WRETQYEPTTHDARQMERMVIEQLQRQVEAAEARNADLEHQLAQAAKSSGAYPPRGGAGSA					
LinJ.31.0770	RRETQYEPATNDARQMEREIERLQRQVEAAEARNADLEHQLAQVAKPSAAYPPRGGADGA					
LDBPK_310770	RRETQYEPATNDARQMEREIERLQRQVEAAEARNADLEHQLAQVAKPSAAYPPRGGADGA					
TcIL3000.10.8010	HVDPERAVVSKPATRCSFSKGGISPVKTSNERSSTPEPATRSRRTQS--EELETQQLREE					
Tb927.10.9240	ATSATKTNIDRIPSADLTSHSGFPVALEVENQQQLREQVELLRREVADLRQKNKAPRATVL					
Tbg972.10.11310	ATSATKTNIDRIPSADLTSHSGFPVALEVENQQQLREQVELLRREVADLRQKNKAPRATVL					
TvY486_1009120	PVAQEDTTVQSHHADPESSLAARSVTCNSSGLKSARLASVKSNDGSGFAGTGPGVSGSRT					
TcCLB.504057.50	-----REMNYRSKRMGREAHAALEIENARLEERLLEMERRLANASSDWRLQEEIEQLKGI					
MOQ_006328	-----RDVNYRSKRMGREAHAALEIENARLQERLLETERRLANASSDWRLLEEIEQLKGT					
TCSYLVIO_003797	-----REMNYRSKRIGREPHAALEIENARLEERLLEMERRLANASSDWRLQEEIEQLKGI					
LtaP34.3080	AANTVSGDVHAYHRELEEKVAALSIDNVRLREQLQAVGRQAAESCTNWKHEEEVKRLKAA					
LbrM.20.2750	AVNANWDGAHAYCQELEGGKVAALSIDNVRLREQLQAAARQAAESCTDWKYEEEVKQLKAT					
LmxM.33.3170	APNAHGDGVQAYCRELEEKVAALSIDNVRLREQLQVVARQAAEACPDWRHEEEVKRLKAA					
LmjF.34.3170	ASSADGDGVHVYYRELEERVAALSIDNVRLREQLQAVARQAAEACTDGRHEEEVKRLKAA					
LinJ.34.2950	APNADGDGFHVYYRELEEKVAALSIDNVRLREQLQVVARQAAEACTDGRHEEEVKRLKAA					
LDBPK_342950	APNADGDGFHVYYRELEEKVAALSIDNVRLREQLQVVARQAAEACTDGRHEEEVKRLKAA					
Chl. trachomatis	-----					
Simk. negevensis	-----MYEREKIQTKEETSM-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	370	380	390	400	410	420
TCLP_I	OKLDNERLRASLEQERA EYEA EKERLAKERE EYERRAKERE VNI RKKEIEIEQQILAAER					
MOQ_005905	OKLDNERRRASLEQERAVYEAEKERLAKERE EYEQRAKERE VNI RKKEIEIEQQILAAER					
TCSYLVIO_007169	OKLDNERRRASLEQERA EYEA EKERLAKERE EYEQRAKERE VNI RKKEIEIEQQILAAER					
LbrM.04.0910	LKLENEKKKALLAQQAFFNAERERAKREQENFEATTKARELELRAREIDIEHLRLARIR					
LtaP04.0700	LKLENEKKKTLLAQQAFFDAERERAEQLEQENFEATTKAQELALRAREIDIEHLRLARIR					
LmxM.04.0710	LKLENEKKKALLAQQAFFDAERERAEQLEQEHFEATAKTRELELRAREIDIEHLRLARIR					
LmjF.04.0710	LKLENEKKKALLAQQAFFDAERERAEQLEQENFEATTKARELELRAREIDIEHLRLARIR					
LinJ.04.0710	LKLENEKKKALLAQQAFFDAERERAEQLEQENFEATTKARELELRAREIDIEHLRLARIR					
LDBPK_040710	LKLENEKKKALLAQQAFFDAERERAEQLEQENFEATTKARELELRAREIDIEHLRLARIR					
TcCLB.504137.70	T-----					
MOQ_003496	T-----					
LbrM.31.0930	RGMS-----					
LmjF.31.0740	RRMS-----					
LmxM.30.0740	LRMS-----					
LinJ.31.0770	RRMS-----					
LDBPK_310770	RRMS-----					
TcIL3000.10.8010	VELLRQELRELKNE RSASYSGVQNNIVIE-----					
Tb927.10.9240	RQ-----					
Tbg972.10.11310	RQ-----					
TvY486_1009120	ISPTLRDENRQLRAEVEILRRELAELQEQQH SVGNTRQK-----					
TcCLB.504057.50	IAQLLREKEA VGRSAEEKWRAKEEELVKELDL MREERRRLHREQTLFEEEQRALVRSLEE					
MOQ_006328	IAQLLREKEAAERSAEENWRAKEEELVKELDL MREERRRLHREQTLFEEEQRAVVRSLEE					
TCSYLVIO_003797	IAQLLREKEAAGRSAAEEKWRAKEEELVKELDL MREERRRLHREQTVFEEEQRALVRSLEE					
LtaP34.3080	VAMLQKSVNDAERAAAADRWRVKEEELVKELDLLREERRRLQEDASAEAKLQELVHSMEG					
LbrM.20.2750	VAMAQQGARDAERAAAHRWRVKEEELVKELDLLREERRRFQEESTTQAEAKLQGLMHSMEG					
LmxM.33.3170	VALAQESVRDAERAAAADRWRVKEEELVKELDLLREERRRFQEESTAQAELQELVHSMEG					
LmjF.34.3170	VAVAQESVKDAERAAAANRWRVKEEELVKELDLLREERRRFHEESTAQAELRELVHSMEG					
LinJ.34.2950	VAMAQEGVKDAERAAAADRWRVKEEELVKELDLLREERRRFHEESTAQAELQELVHSMEG					
LDBPK_342950	VAMAQEGVKDAERAAAADRWRVKEEELVKELDLLREERRRFHEESTAQAELQELVHSMEG					
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	430	440	450	460	470	480
TCLP_I	DRRELELSRLVSHQNRLLYHERV	GKPPPELTHEGMRRGEWSGNDP	FSLPVATPEDKNVA			
MOQ_005905	DKKELELSRLVSHQNRLLYHERL	GKPLPPELMHEGMKRGESGND	SFSLPRATPEDKNVA			
TCSYLVIO_007169	DRRELELSRLVSHQNRLLYHERV	GRPPPELTHEGMRRGEWSGND	PFSLPVATPEDKNVA			
LbrM.04.0910	EARALMDRRLAVQQRLNYAQLG	IEAPGALQREAAAL-----	LLTE			
LtaP04.0700	EARALDADRRLAVKQRLHYAQL	GVEAPRALQRQAAAL-----	LLTE			
LmxM.04.0710	EARALMDRRLAVKQRLHYAQLG	VEAPRALQREAAAL-----	FLTE			
LmjF.04.0710	EARALMDRRLAVKQRLHYAQLG	VEAPRALQREAAAL-----	LLTE			
LinJ.04.0710	EARALMDRRLAVKQRLHYAQLG	VEAPRALQREAAAL-----	LLTE			
LDBPK_040710	EARALMDRRLAVKQRLHYAQLG	VEAPRALQREAAAL-----	LLTE			
TcCLB.504137.70	-----					
MOQ_003496	-----					
LbrM.31.0930	-----					
LmjF.31.0740	-----					
LmxM.30.0740	-----					
LinJ.31.0770	-----					
LDBPK_310770	-----					
TcIL3000.10.8010	-----					
Tb927.10.9240	-----					
Tbg972.10.11310	-----					
TvY486_1009120	-----					
TcCLB.504057.50	QVRSQQ-----					
MOQ_006328	QVRSQQ-----					
TCSYLVIO_003797	QVRSQQ-----					
LtaP34.3080	EIRGLKYE-----					LHDK
LbrM.20.2750	EIRGLKYE-----					LHDK
LmxM.33.3170	EIRGLKYE-----					LHDK
LmjF.34.3170	EIRGLKYE-----					LHDK
LinJ.34.2950	EIRGLKYE-----					LHDK
LDBPK_342950	EIRGLKYE-----					LHDK
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	490	500	510	520	530	540
TCLP_I	WGKPQEINN	NNPPNQWQ	LNQKQSYR	QSDARHPS	GPIKSEEN	ATANAQFEDTYQNRPRPP
MOQ_005905	WRKTQENNN	NL-FNQWKL	NQKQSYGQ	SDARHPSG	PIKTEGNVT	ANAHFEDSYQNRPRPS
TCSYLVIO_007169	WGKPQEINN	NNPPNQWQ	LNQKQSYR	QSGAPHPS	GPIKSEEN	ATANAQFEDSYQNRPRPP
LbrM.04.0910	KGKSDGDAT	NEALVGESS	HHWPGVQSH	PPNSKVSAT	ALKGHTGKSA	ASALDTITDGLVRS
LtaP04.0700	EGESDDDAG	GEEAVGDRR	NHWPGAPPN	RPKSSRGVT	GLKSATAKAV	ARNIDTVRNDLVRS
LmxM.04.0710	EGETDDDAE	GEEPVGDCR	RWPSAQRRH	PNSKMSVTG	FGHTGKAVAS	SLDTONNDLVCS
LmjF.04.0710	EGKTDDDAE	EDEEPAGNG	SSHWPQAQR	HGPDSKMSV	TGLNGHTRQS	VAARTLDTNNNDLVRS
LinJ.04.0710	EGEIDDNAE	EDEEPAGDG	SSHWPQAQR	HGLNSKMSV	TGFKSHTRKSV	ASAQDTSNNDLVRS
LDBPK_040710	EGEIDDNAE	DEVPA GDG	SSHWPQAQR	HGLNSKMSV	TGFKSHTRKSV	ASAQDTSNNDLVRS
TcCLB.504137.70	-----	-----	-----	-----	-----	-----
MOQ_003496	-----	-----	-----	-----	-----	-----
LbrM.31.0930	-----	-----	-----	-----	-----	-----
LmjF.31.0740	-----	-----	-----	-----	-----	-----
LmxM.30.0740	-----	-----	-----	-----	-----	-----
LinJ.31.0770	-----	-----	-----	-----	-----	-----
LDBPK_310770	-----	-----	-----	-----	-----	-----
TcIL3000.10.8010	-----	-----	-----	-----	-----	-----
Tb927.10.9240	-----	-----	-----	-----	-----	-----
Tbg972.10.11310	-----	-----	-----	-----	-----	-----
TvY486_1009120	-----	-----	-----	-----	-----	-----
TcCLB.504057.50	-----	-----	-----	-----	-----	-----
MOQ_006328	-----	-----	-----	-----	-----	-----
TCSYLVIO_003797	-----	-----	-----	-----	-----	-----
LtaP34.3080	EEALQATRL	SLAEIQKEK	RPCRDLPCR	GAHSFS-----	-----	RD
LbrM.20.2750	DEALQTARL	SLAELQRQT	SSWPDVARC	GSDSVS-----	-----	GS
LmxM.33.3170	DEALQAARL	SLAEVQSEK	CSWTDVARR	GVDICP-----	-----	PG
LmjF.34.3170	DEALQAARL	SLAELRSEK	RSWTDVARR	GVDICP-----	-----	RG
LinJ.34.2950	DEALQAARL	SLAEAQSEK	RSRTDVARR	GVDICP-----	-----	RG
LDBPK_342950	DEALQAARL	SLAEAQSEK	RSRTDVARR	GVDICP-----	-----	RG
Chl. trachomatis	-----	-----	-----	-----	-----	-----
Simk. negevensis	-----	-----	-----	-----	-----	-----
Wad. chondrophila	-----	-----	-----	-----	-----	-----
Parachlamydia	-----	-----	-----	-----	-----	-----
Protochlamydia	-----	-----	-----	-----	-----	-----
Yersinia pestis	-----	-----	-----	-----	-----	-----
Salmonella(1jyoD)	-----	-----	-----	-----	-----	-----
Pseud. syringae	-----	-----	-----	-----	-----	-----
Salmonella(3epuA)	-----	-----	-----	-----	-----	-----
Escherichia coli	-----	-----	-----	-----	-----	-----

	550	560	570	580	590	600
TCLP_I	RAAENVVKMMLPGRDNFALAH	DGNNVYNARE	ENAIDNLVCMGRDLGLENTLEFD	NNNTCV		
MOQ_005905	KAAENEVKVMLPGSENFALAH	GGDNVYNARE	ENALENLVCMGRDLGLENTLEFD	NNNTCV		
TCSYLVIO_007169	RAAENVVKMMLPGRDNFALAH	GGNNVYNARE	ENAIDNLVCMGRDLGLENTLEFD	NNNTCV		
LbrM.04.0910	RGSSSPPLSHSAQRP	AVVAAPDGSFYDARE	ENAEENLRRLGEDLGLRDGLQFD	ESDTCV		
LtaP04.0700	RGPSSSPPLSHADQS	ATVVTTVPDGGFYDARE	ENAEENLRRLGDDLGLREKLQFD	DSNTCI		
LmxM.04.0710	RGPSSSPPLSHAGQG	VAAVAIMP	DGGFYDARE	ENAEENLRRLGDDLGLRDRLQFD	DSNTCV	
LmjF.04.0710	RGPSSSPPLSHADQ	RVAGVATVPDGGFYDARE	ENAEENLRRLGDDLGLGDGLQFD	DSNTCV		
LinJ.04.0710	RGPSSSPPLSHAGHS	VAAVATVPDGGFYDARE	ENAEENLRRLGDDLGLRDGLQFD	DSNTCV		
LDBPK_040710	RGPSSSPPLSHAGHS	VAAVATVPDGGFYDARE	ENAEENLRRLGDDLGLRDGLQFD	DSNTCV		
TcCLB.504137.70	-----	GPVLVDLI	QNAKSNLQELGEELGV--	SLQFD-MNLT	CV	
MOQ_003496	-----	GPVLVDLI	QNAKSNLQELSEELGV--	SLQFD-MNLT	CV	
LbrM.31.0930	-----	RSIDVDGI	QVAKESLNMLSQKLQV--	SLYFD-KNLT	CV	
LmjF.31.0740	-----	NSSDL DGI	QVAKQSLKILAQKLGV--	SLQFD-KNLT	CV	
LmxM.30.0740	-----	ESSDL DGI	QVAKESLKILAQKLGV--	SLQFD-KNLT	CV	
LinJ.31.0770	-----	ESSDL DGI	QVAKESLKILAQKLGV--	SLQFD-KNLT	CV	
LDBPK_310770	-----	ESSDL DGI	QVAKESLKILAQKLGV--	SLQFD-KNLT	CV	
TcIL3000.10.8010	-----	DVI	QNAKANLRGLGEELGV--	TLNFD-SNLT	CV	
Tb927.10.9240	-----	DLTSIEVI	QSAKSNLQELAEELGV--	PLQFD-TNFT	CV	
Tbg972.10.11310	-----	DLTSIEVI	QSAKSNLQELAEELGV--	PLQFD-MNFT	CV	
TvY486_1009120	-----	DPELMDII	QNAKANLQELSEELGV--	PLQFD-MNLT	CA	
TcCLB.504057.50	-----	QRLLEQGT	TITQQTRQRPAMNVA	EKVEKSLKQLSLELNI	PQLHLD-DND	TCV
MOQ_006328	-----	KRLLEQGT	MITQQTRQLQPTMNIS	ERVERSLKQLSLELSL	PQLHLD-DND	TCV
TCSYLVIO_003797	-----	QKLLEQGT	TITQQTRQRPAMNVA	EKVEKSLKQLSLELNL	PQLHLD-DND	TCV
LtaP34.3080	ESLHTLELAESH	HARIPLHQ	RQHGGGTSIDELAQT	ALEYLTQAFESA	FRLELEPDND	TCV
LbrM.20.2750	RIDHPFAPAAS	PHARIPLHQ	RQHGGSSSIDGLAE	AALCCLAQTFESA	APLKLDPDND	TCV
LmxM.33.3170	EASHPFAPAG	PRHTRIPQ	DQPQHGGSSASIDELA	ETALTYLTQAFESA	APLELEPEND	TCV
LmjF.34.3170	EASHPFAPAAS	RHARIPLQ	QRQHGC	SANIDELAETAMEY	LTQAFESATPLE	LEPENDTCV
LinJ.34.2950	EANHPFAPAAS	RRARIPLHQ	RQHGGSSSIDELAET	ALEYLTQAFESAT	PLVLEPEND	TCV
LDBPK_342950	EANHPFAPAAS	RRARIPLHQ	RQHGGSSSIDELAET	ALEYLTQAFESAT	PLVLEPEND	TCV
Chl. trachomatis	-----	MSR	QNAEENLNK	FAKELKL-PD	VAFD-QNNT	CI
Simk. negevensis	-----	SI	ENAKANLREF	GKELNL-EG	LAFD-ENHT	CI
Wad. chondrophila	-----	MSF	ENAKQNLAE	FGKELGL-EG	LEFD-ENNT	CI
Parachlamydia	-----	MSF	ENAKENLKE	FGKELGL-EG	LEFD-ENNT	CI
Protochlamydia	-----	MSF	ENAKENLKE	FGKELGL-EG	LEFD-ENNT	CI
Yersinia pestis	-----	MRTYSS	LLLEEFATE	LGL-EEI	ETN-ELGH	GA
Salmonella(1jyoD)	-----	IQA	HQDIIANIG	EKLGL-PL	TFD-DNNQ	CL
Pseud. syringae	-----	MTIQD	LLNALAIR	LES-RPL	SLD-ANHL	CC
Salmonella(3epuA)	-----	MY	SRADRLLR	QFSLKLNT	-DSIVFD-EN	RLCS
Escherichia coli	-----	MS	SRSELLDR	FAEKIGV-GS	ISFN-EN	RLCS

	610	620	630	640	650	660
TCLP_I	ISVDGQYNLIVTFDATERL-YIYSTLLMTNIP----HDPVLRRLRVYEFLEMEGALLGREMC					
MOQ_005905	ISVDGQYNLIVTFDATERL-YIYSTLLMTNIP----NDPVLRLRVYEFLEMEGALLGREMC					
TCSYLVIO_007169	ISVDGQYNLIVTFDAATERL-YIYSTLLMTNIP----HDPVLRRLRVYEFLEMEGALLGREMC					
LbrM.04.0910	ISIDGEYTLLVMYDVTTERL-YLYSTLLASLPPVVQATTEGRLKLYEFLLEASLLGREMC					
LtaP04.0700	ISIDGEYTLLVMYDAATERL-YLYSTLLAALPPVVQATAEGRLKLYEFLLEASLLGREMC					
LmxM.04.0710	ISIDGEYTLLVMYDAATERL-YLYSTLLASLPPVVQATAEGRLKLYEFLLEASLLGREMC					
LmjF.04.0710	ISIDGEYTLLVMYDAATERL-YLYSTLLASLPPVVQATAEGQLKLYEFLLEASLLGREMC					
LinJ.04.0710	ISVDGEYTLLVMYDAATERL-YLYSTLLASLPPVVQATTEGRLKLYEFLLEASLLGREMC					
LDBPK_040710	ISVDGEYTLLVMYDAATERL-YLYSTLLASLPPVVQATTEGRLKLYEFLLEASLLGREMC					
TcCLB.504137.70	IGTDERHTVLVTFDHATERL-YVYSTLLTQLP----VDAAVRVKLYELLLEGSLLGREVC					
MOQ_003496	IGTDERHTVLVTFDHATERL-YVYSTLLTQLP----VDAAVRVKLYELLLEGSLLGREVC					
LbrM.31.0930	VGTDDEFSILLTYDPATERL-YIYSSLLTELP----ENLPLRMKLYELLLEGSLLGREVC					
LmjF.31.0740	VGTDADFSILLTYDPATERL-YIYSSLLTELP----DHPPLRMKLYEVLLEGSLLGREVC					
LmxM.30.0740	VGTDADFSILLTYDPATERL-YIYSSLLTELP----DHPPLRMKLYEVLLEGSLLGREVC					
LinJ.31.0770	VGTDADFSLLLTYDPATERL-YIYSSLLTELP----DHPPLRMKLYEVLLEGSLLGREVC					
LDBPK_310770	VGTDADFSLLLTYDPATERL-YIYSSLLTELP----DHPPLRMKLYEVLLEGSLLGREVC					
TcIL3000.10.8010	VGNDESHTVLVTFDSVTERL-YIYATLLTQLP----LDPEVRAKLYELLLEGSLLSREVC					
Tb927.10.9240	VGDDESHTVLVTFDCVTERL-YIYSTLLTQIP----HDGEVRAKLYELLLEGSLLSREVC					
Tbg972.10.11310	VGDDESHTVLVTFDCVTERL-YIYSTLLTQIP----HDGEVRAKLYELLLEGSLLSREVC					
TvY486_1009120	VGREESQTVLVTFDYHTERL-YVYATLLTELP----SNMEVRVKLYEVLLEGSLLGREVC					
TcCLB.504057.50	LPLGDGTNILVTLDTITERL-FMYAVIANSLP----SNAGKRLELFEMLLEGALLGRDMA					
MOQ_006328	LPLGDGTNILVTLDTITERL-FMYAVIANSLP----SNAGERLRLFEMLLEGALLGRDMA					
TCSYLVIO_003797	LPLGDGTNILVTLDTVTERL-FMYAVIANSLP----SNAGKRLELFEMLLEGALLGRDMA					
LtaP34.3080	LPIDNDLNLVTLTDRETERL-YMYVTLLNHLP----SPPAQRLQLYEMLLEGALLGKDMA					
LbrM.20.2750	IPVANGNLVLVTLTDRETERL-FLYVPLLNRLP----SSLVQRMQLYEMLLEGALLGKDMA					
LmxM.33.3170	VSVAKDLNLVTLTDRETERL-YLYVTLLNHLP----SSAAQRMQLYEMLLEGALLGKDMA					
LmjF.34.3170	VPVADDLNLVTLTDRETERL-YLYVTLLNHLP----SSPTQRMRLYEMLLEGALLGKDMA					
LinJ.34.2950	VPVANDLKVLVTLTDRETERL-YLYVTLLNHLP----SSPVQRMQLYEMLLEGALLGKDMA					
LDBPK_342950	VPVANDLKVLVTLTDRETERL-YLYVTLLNHLP----SSPVQRMQLYEMLLEGALLGKDMA					
Chl. trachomatis	LFVDGEFSLHLTYEEHSDRL-YVYAPLLDGLP----DNPQRRRLALYEKLLEGSMGLGGQMA					
Simk. negevensis	LGIDNTFSLHLTYEPNSDRL-YLYSPILDGLP----KDDPTKLKLYEALLEGSMGLGGQMA					
Wad. chondrophila	LGIDDEFSLHLTYEPNSKRL-YLYSPLLDGLP----RDDKTRLKLYETLLEGSMGLGGQMA					
Parachlamydia	LGIDDEFSLHLTYEPNSKRL-YLYSPLLDGLP----RDDKTKLRLYEKLLEMSMLGGQMA					
Protochlamydia	LGIDDEFSLHLTYEPNSKRL-YLYSPLLDGLP----RDEKTKLRLYERLLEGSMGLGGQMA					
Yersinia pestis	VTIDKIWVVHLAPINEKELVAFMRAGILTQS-----QLYDILRKN--LFSPLS					
Salmonella(1jyoD	LLLDSD--IFTSIEAKDDIW-LLNGMIIPLSP----VCGDSIWR--QIMVINGELAAANNE					
Pseud. syringae	LKVNE---LDMTLERIEKQN-TLFVYLCVGTL----STPASSTLLSDILAANLFHYGSSD					
Salmonella(3epuA	FIIDNRYRILLT-STNSEYI-MIYG--FCGKP-----PDNNNLAFEF--NANLWFAENN					
Escherichia coli	FAIDEIYYISLS-DANDEYM-MIYG-VCGKFP---TDNPNFALE----ILNANLWFAENG					

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	670	680	690	700	710	720
TCLP_I	GGGVGASIKNDFILLSSSIYL-PTSLPTTLSTLAPQFLFSLNKWREKLGELLST	VDTQK-				
MOQ_005905	GGGVGASIKNDFILLSTSIHL-PTSLPTTLSTLVPQFLFSLNKWREKLGELLST	VDLQK-				
TCSYLVIO_007169	GGGVGASIKNDFILLSSSIYL-PTSLPTTLSTLAPQFLFSLNKWREKLGELLST	VDMQK-				
LbrM.04.0910	GGGVGSSIRNDFILMSASLYM-PTSQPWSLRTLAPQFLHCLQHWRTKLTEFLQ	ILEAQ--				
LtaP04.0700	GGGVGASLRNDFVLMSASLYM-PTSQPWSLRTLAPQFLHCLRHWRRKKLTEFLQ	ALEAQ--				
LmxM.04.0710	GGGVGASLRNDFVLMSASLYM-PTSQPWSLRTLAPQFLHCLRHWRAKLTEFLQ	ILEAQ--				
LmjF.04.0710	GGGVGASLRNDFVLMSASLYM-PTSQPWSLRTLAPQFLHCLRHWRTKLTEFLQ	ILEAQ--				
LinJ.04.0710	GGGVGASLRNDFVLMSASLYM-PTSQPWSLRTLAPQFLHCLRHWRTKLTEFLQ	ILEAQ--				
LDBPK_040710	GGGVGASLRNDFVLMSASLYM-PTSQPWSLRTLAPQFLHCLRHWRTKLTEFLQ	ILEAQ--				
TcCLB.504137.70	GGGIGMSLQSGIVLLSTSIPL-RNCSTSALKDIMP SFVETLGRWRS	LINELLD-----				
MOQ_003496	GGGIGMSLQSGIVLLSTSIPL-RNCSTSALKDIMP SFVETLGRWRS	LINELLD-----				
LbrM.31.0930	GGGIGLSMQNSVVVLTTSPLM-RHCSAAALCETLPLFVETLLRWRS	LIDELLR-----				
LmjF.31.0740	GGGVGLSTQNNVVVLTTSPLV-RHCSPEALCEVMPLFVETLVRWRS	LIDELVR-----				
LmxM.30.0740	GGGVGLSTQNNVVVLTTSPLV-RHCGPEALCEVMPLFVETLVRWRS	LIDELLR-----				
LinJ.31.0770	GGGVGLSTQNNVVVLTTSPLV-RHCSPEALCEVMPLFVETLVRWRS	LIDELLR-----				
LDBPK_310770	GGGVGLSTQNNVVVLTTSPLV-RHCSPEALCEVMPLFVETLVRWRS	LIDELLR-----				
TcIL3000.10.8010	GGGIGISPQNGVLLSTTIPL-RHCTSSTLRDIMPVFVETVQRWRL	LINELLS-----				
Tb927.10.9240	GGGIGISPQNGVLLSTTIPL-RHCNSSALKDIMPVFVETVARWRS	LINELLN-----				
Tbg972.10.11310	GGGIGISPQNGVLLSTTIPL-RHCNSSALKDIMPVFVETVARWRS	LINELLN-----				
TvY486_1009120	GGGIGLSLRDSVLLSTTIPL-RCCTSSALKETMPIFIETLQRWRS	LINELLS-----				
TcCLB.504057.50	TGGVGVCRLNELIIMNVCVDI-VHADEYALASIARPFMESVQHWSEAV	KKMMPEKKN---				
MOQ_006328	TGGVGVCRLRNLIIMNVCVDI-VHADEYALARIARPFMDSVQHWSEAV	QKVMPPKEN---				
TCSYLVIO_003797	TGGVGVCRLNELIIMNVCVDI-VHADEYALASIARPFMESVQHWSEEV	KQMPQKKN---				
LtaP34.3080	GGGVGSLESNLVLMSISANL-RHGGPTALAATAAPFAKAAQAWKKR	IDALLNTYSGL--				
LbrM.20.2750	GGGVGSLEANLVLMSVSANL-RHSAASALAVTATPFVEAAQALT	TRIDALLSTRRVF--				
LmxM.33.3170	GGGVGSLESNLVLMSISVNL-RHSAASALADAAAPFVKAAQAWTKS	IDVLLNT-----				
LmjF.34.3170	GGGVGSPESNLVLMSVSANL-RHSGASALAATAAPFVIAAQAWTKS	IDVLLNT-----				
LinJ.34.2950	GGSVGSLESNLVLMSVSANL-RHSGASALAATAAPFVKAAQAWTKS	IDVLLNN-----				
LDBPK_342950	GGSVGSLESNLVLMSVSANL-RHSGASALAATAAPFVNAAQAWTKS	IDVLLNS-----				
Chl. trachomatis	GGGVGVATKEQLILMHCVLDM-KYAETNLLKAFAQLFIETVVKWRT	TVCSDISAGREPTVD				
Simk. negevensis	GGGIGVAVKEELILMHCVLEMAGADTSSLRRFAPLFVESVEKWR	DRAKRIMEGHDVQI-				
Wad. chondrophila	GGGVGVAVKEELILMHCTIDM-EHAVSSALRAFAPLYVETVEKWR	KICTDVSEGREVTP				
Parachlamydia	GGGVGVAVQEELILMHCTIDM-EHAVPSALRAFAPLYVETVEGLR	KLCAEISEGRDTASK				
Protochlamydia	GGGVGVAVKEELILMHCTIDM-EHAVSSALRAFAPLYVETVEKWR	KICSEVSEGRDEGAN				
Yersinia pestis	GVIRCALDKDDHWLLWSQLNI-NDTSGTQLASVLTSLVDKAVT	LS--CEPTMKKEEDDH-				
Salmonella(1jyoD	GTLAYIDAAETLLLIHAITDL---TNTYHIISQLESFVNQQEAL	KNILQEYAKV-----				
Pseud. syringae	GAAFGLDEKNNEVLLFQRFDP-LRIDEDHFVSACVQMIEVAKI	WRT---KLLHGHSAPL-				
Salmonella(3epuA	GPHLCYDNNSQSLLLALNFSL-NESSVEKLECEIEVVIRSMEN	LYHILQDKGITLDTDYT				
Escherichia coli	GPYLCYESGAQSLLLALRFPL-DDATPEKLENEIEVVVKSMEN	LYLVLHNQGITLENEH-				
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	730	740	750	760	770	780
TCLP_I	--MTSPSKNGHSTIED	TNELDSRHTPEEKAPRRIPSSTRSSRTQSAESGAGR	-----			
MOQ_005905	--MTTPSKNGHATVEGTSELESRQTPDEKVPRIASSTRSSRTHSAESAAGR	-----				
TCSYLVIO_007169	--MTSPSKNGHSTIEDTNELDSRHTPEEKASRRIASSTRSSRTHSTESGAGR	-----				
LbrM.04.0910	--ESHLQGGGIDTVPPSPFAAPQPPQOHGYFTASSSQSPSLAHSPYRPSSAAIRIVSPR					
LtaP04.0700	--DGLSQGGGTGAGSSTPSVVTQAQSSQLPAHTSAAYSLSPFMAHSAPRAGSAATSIASPL					
LmxM.04.0710	--EGHAQSGGTGAGPATPPAAARQPPQHVVYTSSASSLSPSMTRSAPRADSAATSVASPO					
LmjF.04.0710	--EGCGQGGGTGAVPATPPAAARQSPQHVVYTSAASSLSPSMARSAPHAGSAATSIASPH					
LinJ.04.0710	--EGHGQSGGTGAVPATPPAAARQPPQHVVYTSAASSLSPSMARSAPHAGSAATSIASPH					
LDBPK_040710	--EGHGQSGGTGAVPATPPAAARQPPQHVVYTSAASSLSPSMARSAPHAGSAATSIASPH					
TcCLB.504137.70	-----					
MOQ_003496	-----					
LbrM.31.0930	-----					
LmjF.31.0740	-----					
LmxM.30.0740	-----					
LinJ.31.0770	-----					
LDBPK_310770	-----					
TcIL3000.10.8010	-----					
Tb927.10.9240	-----					
Tbg972.10.11310	-----					
TvY486_1009120	-----					
TcCLB.504057.50	-----					
MOQ_006328	-----					
TCSYLVIO_003797	-----					
LtaP34.3080	-----					
LbrM.20.2750	-----					
LmxM.33.3170	-----					
LmjF.34.3170	-----					
LinJ.34.2950	-----					
LDBPK_342950	-----					
Chl. trachomatis	TMPQMPQGGGGGIQPPPAGIRA	-----				
Simk. negevensis	--ERPQAGMQPGHRPGGDQPKPGDRF- IKI-	-----				
Wad. chondrophila	MTKAVPGSGSPGQRGDEPKGIKI	-----				
Parachlamydia	PKESDMLPGGLSGKKGNQGFIKI	-----				
Protochlamydia	ASKSLPPQITGGGKQGQGFIIKI	-----				
Yersinia pestis	--RPSSSHLLV	-----				
Salmonella(1jyoD)	-----					
Pseud. syringae	--ASSTRLTAKAGLMLTMAGTIR	-----				
Salmonella(3epuA)	HHHHHH	-----				
Escherichia coli	--MKIEEISSDNKHYYAGR	-----				

	790	800	810	820	830	840
TCLP_I	-----					PVIGIEATDSVMINGVPSRH
MOQ_005905	-----					PMIGIEATDSVMINGVPSRH
TCSYLVIO_007169	-----					PVIGIEATDSVMINGVPSRH
LbrM.04.0910	PRCLATSPSPSQASSSA	AVAVTPLA	APYTSP	PNGSA---	IPVLGLEVTGTVL	INGVPPTHY
LtaP04.0700	PKCFAASLSPLQASN	-----GSAKRIIPVLGLEVTGTVLVNGVPPTHY				
LmxM.04.0710	PKSCATSPSPLQAFNTA	AALATPLA	APHTSSS	NGTAKRVLPVL	GLEVTGTVLV	NGVPPTHY
LmjF.04.0710	PKSSAASPSPLQASNSA	AVAVTPLA	APHTSS	FNGSAKRVI	PVLGLEVTGTVL	VNGVPPTHY
LinJ.04.0710	PKSSAASPSPLQAPNTA	VVAATPLA	APYTSS	FGGSAKRVI	PVLGLEVTGTVL	VNGVPPTHY
LDBPK_040710	PKSSAASPSPLQASNTA	VVAATPLA	APYTSS	FGGSAKRVI	PVLGLEVTGTVL	VNGVPPTHY
TcCLB.504137.70	-----					
MOQ_003496	-----					
LbrM.31.0930	-----					
LmjF.31.0740	-----					
LmxM.30.0740	-----					
LinJ.31.0770	-----					
LDBPK_310770	-----					
TcIL3000.10.8010	-----					
Tb927.10.9240	-----					
Tbg972.10.11310	-----					
TvY486_1009120	-----					
TcCLB.504057.50	-----					
MOQ_006328	-----					
TCSYLVIO_003797	-----					
LtaP34.3080	-----					
LbrM.20.2750	-----					
LmxM.33.3170	-----					
LmjF.34.3170	-----					
LinJ.34.2950	-----					
LDBPK_342950	-----					
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

	850	860	870	880	890	900
TCLP_I	NGGVLVVNVGGPAALAG	IKPHDIIKKIDYKRVTSLRQFQREV-	SRLIVGKMVPVVVERSD			
MOQ_005905	NGGVLVVNVGGPAALAG	IKPHDIIKKINYKRVTSLRQFQREV-	SRLIVGKMVPVLLERSD			
TCSYLVIO_007169	NGGVLVVNVGGPAALAG	IKPHDIIKKINYKRVTSLRQFQREV-	SRLIVGKMVPIVVERSD			
LbrM.04.0910	EDGVLVVNAAGPSVLAGVQPNDFIEELNGVRIHNVGDFRRVIEEQLAPGMLVPVRINRGG					
LtaP04.0700	QDGVLLVNAAGPSVLAGVQPNDLIEELNGMRIHNVGDFRRVIEEQLAPGMLVPMRINRGG					
LmxM.04.0710	QDGVLLVNAAGPSVLAGVQPNDFIEELNGARIHNVGDFRRVIEEQLTPGMLVPVRINRGG					
LmjF.04.0710	QDGVLLVNAAGPSVLAGVQPNDLIEALNGTRVRNVGDFRRVIEEELTPGMIVPVRINRGG					
LinJ.04.0710	QDGVLLVNAAGPSVLAGVQPNDLIEELNGTRVRNVGDFRRVIEEQLTPGMLVPVRINRGG					
LDBPK_040710	QDGVLLVNAAGPSVLAGVQPNDLIEELNGTRVRNVGDFRRVIEEQLTPGMLVPVRINRGG					
TcCLB.504137.70	-----					
MOQ_003496	-----					
LbrM.31.0930	-----					
LmjF.31.0740	-----					
LmxM.30.0740	-----					
LinJ.31.0770	-----					
LDBPK_310770	-----					
TcIL3000.10.8010	-----					
Tb927.10.9240	-----					
Tbg972.10.11310	-----					
TvY486_1009120	-----					
TcCLB.504057.50	-----					
MOQ_006328	-----					
TCSYLVIO_003797	-----					
LtaP34.3080	-----					
LbrM.20.2750	-----					
LmxM.33.3170	-----					
LmjF.34.3170	-----					
LinJ.34.2950	-----					
LDBPK_342950	-----					
Chl. trachomatis	-----					
Simk. negevensis	-----					
Wad. chondrophila	-----					
Parachlamydia	-----					
Protochlamydia	-----					
Yersinia pestis	-----					
Salmonella(1jyoD)	-----					
Pseud. syringae	-----					
Salmonella(3epuA)	-----					
Escherichia coli	-----					

TCLP_I	VLHTIFIRVGSA---
MOQ_005905	VLHTIFIKVGSA---
TCSYLvio_007169	VLHNIFIRVGSA---
LbrM.04.0910	VAMVTVHVEAARPL
LtaP04.0700	VAMVTVCVEAGQSL
LmxM.04.0710	VAMVTVRVEAGRSL
LmjF.04.0710	VAMVTVRVEAGRSL
LinJ.04.0710	VAMVTVRVEAGRSL
LDBPK_040710	VAMVTVRVEAGRSL
TcCLB.504137.70	-----
MOQ_003496	-----
LbrM.31.0930	-----
LmjF.31.0740	-----
LmxM.30.0740	-----
LinJ.31.0770	-----
LDBPK_310770	-----
TcIL3000.10.8010	-----
Tb927.10.9240	-----
Tbg972.10.11310	-----
TvY486_1009120	-----
TcCLB.504057.50	-----
MOQ_006328	-----
TCSYLvio_003797	-----
LtaP34.3080	-----
LbrM.20.2750	-----
LmxM.33.3170	-----
LmjF.34.3170	-----
LinJ.34.2950	-----
LDBPK_342950	-----
Chl. trachomatis	-----
Simk. negevensis	-----
Wad. chondrophila	-----
Parachlamydia	-----
Protochlamydia	-----
Yersinia pestis	-----
Salmonella(1jyoD)	-----
Pseud. syringae	-----
Salmonella(3epuA)	-----
Escherichia coli	-----