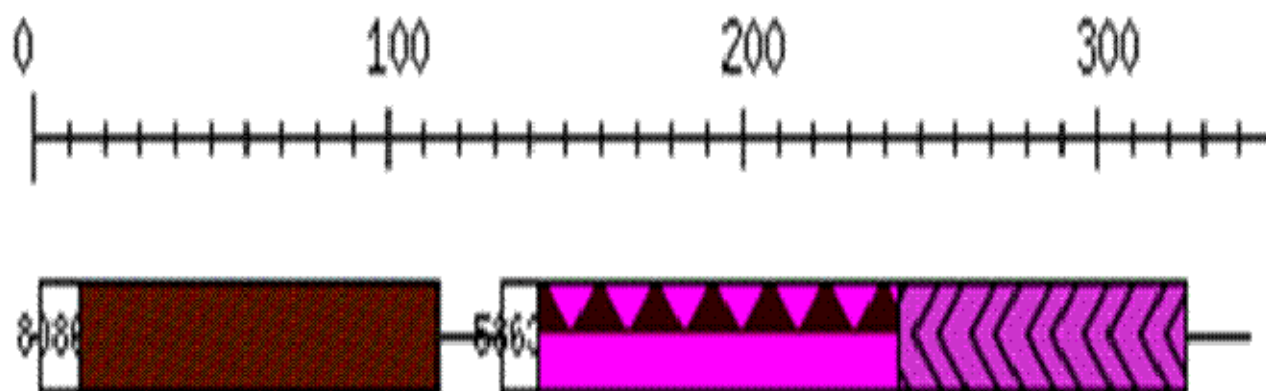


VirB11



	<u>Domain ID</u>	<u>BEGIN</u>	<u>END</u>	<u>Total ID</u>
1.	PD003019	13	113	156
2.	PD000739	142	243	407
3.	PD002760	244	324	379
4.	PD808646	2	105	1
5.	PD6586303	132	182	193
6.	PD000005	164	197	8955

	10	20	30	40	50	60	70	80	90	100	110	120	130	
006642_METY0(174-269)	LEPIKRD	PTIEDIHVI	---	GPK	NTQLVHKTFDM	---	LPT	---	NIVMEDDGDMSNYL	KMLCERMGPRVSDATPIV	DGSGMPD	---	GSRLINILYSNDVSLKGG	
09C4P2_METTL(165-262)	LGALEPIRRD	PYIEDIHVI	---	GSN	GCQLVHKTFDM	---	LPT	---	NITMEDDIELANYL	KNICERIGRPVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
09C4Q4_METMP(165-262)	LGTLLEPIKRD	PYIEDIHVI	---	GAK	NCQLVHKTFDM	---	LPS	---	NITMEDDIEDADYL	KMLCERMGPRVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
Y900_NETJA(173-267)	LEPIGRD	PYLEDIHVI	---	GPK	NCHVYVHKTFGM	---	LPT	---	NITMEDDIELADYL	KMLCERMGPRVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
058292_PYRHO(157-254)	GPLEPIARD	PYLEDIHVI	---	GAN	YVSVYVHKTFGM	---	LPT	---	NITMEDDIELADYL	KMLCERMGPRVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
09UYHO_PYRAB(157-254)	GPLEPIARD	PYLEDIHVI	---	GAN	YVSVYVHKTFGM	---	LPT	---	NITMEDDIELADYL	KMLCERMGPRVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
08U3X0_PYRFU(157-254)	GPLEPIARD	PYLEDIHVI	---	GAN	YVSVYVHKTFGM	---	LPT	---	NITMEDDIELADYL	KMLCERMGPRVSDATPIV	DGSLPD	---	GSRLINILYSQDVSLKGG	
097846_THEVC(157-260)	LGPLEPLIRD	SHIEDISGI	---	GPD	DVYVYVHKTFGS	---	MAT	---	DITFGSHERLRYVFSKRL	SERVGRPVSDOKRPIV	DATLDP	---	GSRLSLVYSQDVSQRG	
09HKN8_THEAC(160-258)	LGPLEPLIRD	SHIEDISGI	---	GPE	DVYVYVHKTFGS	---	MPT	---	DITFGSHERLRYVFSKRL	SERVGRPVSDOKRPIV	DATLDP	---	GSRLSLVYSQDVSQRG	
09HQY3_HALN1(244-338)	GPLEPVNRD	PYNEIDHVI	---	GPT	GCYVYVHKTFGM	---	LET	---	YVDFGDPDEFDGLR	RNHGRMGDPVSDSDPIV	DSTLDP	---	GSRLINILYSQDVSLKGG	
029213_ARCFU(239-336)	LGVLPEYIRD	KYIEDISCS	---	GLG	PVFIEHKVFKG	---	LKS	---	YIEFREDDELNKF	IIRLAERIGKPYTYKQPIV	DATLDP	---	GSRLINILYSQDVSLKGG	
08Q021_METHA(231-326)	LDPYIND	NKIEDITCN	---	GLG	PVFIEHKVFKG	---	LRS	---	YIEFNNDALNHVYVRL	AERIGKPYTYKQPIV	DSTLDP	---	GSRLINILYSQDVSLKGG	
08TLIO_METAC(231-326)	LDPYIND	NKIEDITCN	---	GLG	PVFIEHKVFKG	---	LRS	---	YIEFNNDALNHVYVRL	AERIGKPYTYKQPIV	DSTLDP	---	GSRLINILYSQDVSLKGG	
08PZS9_METHA(235-332)	MGVLEPLLD	SNIEDISCS	---	GLG	RIFVHKVFKG	---	LKT	---	TISFEEIEELNSFVIQ	MSKVKGPITYRDP	IVDTALPD	---	GSRLINILYSQDVSLKGG	
08TLF4_METAC(231-328)	MGVLEPLLD	SNIEDISCS	---	GLG	RIFVHKVFKG	---	LKT	---	TISFEEIEELNSFVIQ	MSKVKGPITYRDP	IVDTALPD	---	GSRLINILYSQDVSLKGG	
09YAP7_AERPE(190-287)	GPLEPLIRD	PYLEDISCN	---	GVG	PVYVHKVFKG	---	LES	---	YVTFEIEGELDOF	ILKLGKIGKPISHARP	PVYDHALPD	---	GSRLINILYSQDVSLKGG	
096J1_SULT0(127-230)	LGITIEPLIRD	PYLEDISLP	---	GLG	HIYVYVHKVFKG	---	MRT	---	SKTIEKEEELDOL	ITSLSEKTYRYPVSHNRPIV	DASLDP	---	GSRLINILYSQDVSLKGG	
097H87_SUL50(129-230)	ILEPLIRD	PFIEDISIP	---	GLG	HIYVYVHKVFKG	---	MRT	---	SLLIENEIEELDOL	ITSLSEKTYRYPVSHNRPIV	DASLDP	---	GSRLINILYSQDVSLKGG	
029266_ARCFU(190-285)	ITPLMLD	KNLEDISCN	---	GVRYK	YVYVHKVFKG	---	LRT	---	NVIFDOPDELDSFV	VNLAKQCKGHISIAEP	PHVDATMP	---	GSRLQMTLGREYTDHG	
029909_ARCFU(215-310)	ITPIMYD	PHIEDISCN	---	GVYKY	YVYVHKVFKG	---	LRT	---	NVIFDOPDELDSFV	VNLAKQCKGHISIAEP	PHVDATMP	---	GSRLQMTLGREYTDHG	
029598_ARCFU(135-229)	IDPLMED	TMVEDISCD	---	GVNYP	YVYVHKVFKG	---	VET	---	NIVLQD	EKLDRHVLRLTQRSGKHISIAEP	PHVDATMP	---	GSRLQMTLGREYTDHG	
09HR79_HALN1(171-271)	LDPVMD	PHIEDVSCD	---	GVGLP	YVYVHKVFKG	---	VET	---	NITTEYEQ	QELDSFVYVLAQSGRHSIGDP	TYTETLDP	---	GSRLQMTLGREYTDHG	
08PWR0_METHA(171-269)	PLLVD	PYIEDISCD	---	GVG	YVYVHKVFKG	---	IES	---	NISFGE	EELDALVYKHCQLN	NKHISVYSQPIV	DATIQD	---	GSRLQMLGREYTPRG
08TU40_METAC(171-269)	PLLVD	PYIEDISCD	---	GVG	YVYVHKVFKG	---	IES	---	NISFEE	EELDSLVTKHCQLN	NKHISVYSQPIV	DATIQD	---	GSRLQMLGREYTPRG
08PYC5_METHA(179-271)	PLIHD	PNIEDISCS	---	GTE	IPYVYVHKVFKG	---	IVT	---	NHFGE	KELDSL	VYKLCQSRSGKHISIGEP	IVDHALPD	---	GSRLQMTLGREYTPRG
08TJ15_METAC(478-576)	ALIRD	PNIEDISCS	---	GTE	IPYVYVHKVFKG	---	IVT	---	NHFGE	KELDSL	VYKLCQSRSGKHISIGEP	IVDHALPD	---	GSRLQMTLGREYTPRG
08TLE0_METAC(240-340)	IDILMNE	PYVEDITCN	---	GGPT	YVYVHKVFKG	---	IKS	---	VDTFEE	VELNMFVYKIAQISGRHSISLQPIV	IRDALPD	---	GSRLQMTLGREYTPRG	
09Y9T0_AERPE(83-180)	GPIDVLMKD	EYLEDISCD	---	GVG	YVYVHKVFKG	---	IKS	---	NIVFEDQDL	DMHILLARHAGRKHISVAF	PVLDALVPE	---	GHRYAATFRREYTSQG	
P5941_SUL50(100-205)	ELTYVLD	PYVEIECK	---	GF	SYPTVYVYVHKVFKG	---	PRL	---	NITLE	QEDHVLKVIKELANKADKPVYIAK	PYLEFSLPE	---	GHRYAATFRREYTSQG	
0971F6_SULT0(91-195)	ITPLMLD	QIEIEIECR	---	GF	GYPTVYVYVHKVFKG	---	PRL	---	NITPK	NEDDITKVIKELANKADKPVYIAK	PYLEFSLPE	---	GHRYAATFRREYTSQG	
097VE6_SUL50(140-244)	ILQAPMSD	PFVEIEELV	---	SPT	TPISVYVYVHKVFKG	---	PRL	---	NIVL	QEDHVLKVIKELANKADKPVYIAK	PYLEFSLPE	---	GHRYAATFRREYTSQG	
09YE75_AERPE(105-205)	PLIID	GHEIEIAFE	---	GP	GRGVSIVHSLVPG	---	RWD	---	VDL	KLGEDEANSLALQLARKAGRSLAQ	PLAEGLTGE	---	GHRYAATFRREYTSQG	
YC88_NETJA(161-240)	IDALMKD	ENLEDISCT	---	GVG	YVYVHKVFKG	---	LKT	---	NITKFT	DEEELDSFCTISL	AQRCKGSLTLANPIV	DGSLPD	---	GSRLNVTL
097420_SUL50(173-286)	ITITPLLD	NKVEDISVS	---	GTM	LPYVYVHKVFKG	---	IF	---	FNI	INDGEEITDEL	VLRLISL	SNKISVYANPIV	DGSLPK	GSRLIAATFRREYTSANG
097H53_SUL50(176-270)	VL TPLVAD	KNIEDISVP	---	GLN	MPYVYVHKVFKG	---	IF	---	NTH	INDGEEELDQL	VLRLISL	SNKISVYANPIV	DGSLPK	GSRLIAATFRREYTSANG
027737_METTH(146-241)	ELDPLIKD	DOLEEHVI	---	GVK	YVYVHKVFKG	---	HIT	---	NIVF	NDDDKIADIVL	IARQVNRIDQQPIV	DALPD	---	GSRYNATI
058384_PYRHO(220-314)	LDPLVYD	DNLEEHVI	---	GT	NRP	YVYVHKVFKG	---	CKT	NIT	FTSEREL	IIIERIAREVGRRI	DQDQNP	PLDARLP	GSRYNATI
09UY47_PYRAB(222-316)	LDPLVYD	DNLEEHVI	---	GT	DRP	YVYVHKVFKG	---	CKT	NIT	FTSEREL	IIIERIAREVGRRI	DQDQNP	PLDARLP	GSRYNATI
08U256_PYRFU(232-326)	IDPLVYD	DNLEEHVI	---	GT	NRP	YVYVHKVFKG	---	CKT	NIT	FTSEREL	IIIERIAREVGRRI	DQDQNP	PLDARLP	GSRYNATI
08TXG7_METKA(214-316)	EIHPLLD	DNLEEHVI	---	GVN	YP	YVYVHKVFKG	---	CLC	NIR	FVYS	RSRTIYERISRESGRRI	DQDQNP	PLDARLP	GSRYNATI
Y781_NETJA(169-265)	LGLEVPLND	DRLEEVHVN	---	GVN	YP	YVYVHKVFKG	---	CET	NIV	LD	REYDRIIESIANL	VNRIDSRPHL	DARFLPD	GSRYNATI
069627_MYCTU(23-125)	ILEPLLSA	DGTDVLLV	---	TAP	DSVNV	DDGGL	---	RRS	QIR	FAD	SAVRRLAQLRALAQRRL	DDAQPHV	DGQLTGIGVGGF	AVRLHAVL
082EK8_STRAW(104-205)	GPLEPLLD	PSVDVLLV	---	SAP	DRVNV	DRGGGL	---	ELT	AVS	FDE	AVRRLAQLRALAQRRL	DDAQPHV	DGQLTGIGVGGF	AVRLHAVL
09X921_STRCO(185-286)	GPLEPLLD	PSVDVLLV	---	SAP	DRVNV	DRGGGL	---	ELA	PYS	F	DRVNRRLAQLRALAQRRL	DDAQPHV	DGQLTGIGVGGF	AVRLHAVL
08F5T4_COREF(61-163)	GPLEAALAL	PGVDVLLV	---	NGP	REVNI	DRGGGL	---	EQL	DND	L	GSEAVRRLAQLRALAQRRL	DDAQPHV	DGQLTGIGVGGF	AVRLHAVL
08NTK6_COREL(22-118)	GPLESLLAL	PGVDVLLV	---	NHD	SVNI	DRGGGL	---	EKV	DND	L	GSEAVRRLAQLRALAQRRL	DDAQPHV	DGQLTGIGVGGF	AVRLHAVL
083HR1_TROWT(47-147)	QLSPLISD	PTVTDIFV	---	NGD	RGVNV	DRGGCP	---	VRE	DK	F	S	QQTHEL	IIRLISLGNRHI	DEATPCVDVRLHG
083N86_TROW8(8-108)	QLSPLISD	PTVTDIFV	---	NGD	RGVNV	DRGGCP	---	VRE	DK	F	S	QQTHEL	IIRLISLGNRHI	DEATPCVDVRLHG
P94647_CHL1(121-218)	LGPLEPLLD	PGVSEINV	---	NGH	QNIY	EKGGCI	---	YPT	DIR	F	NDAHL	MKIDIKIYSRVGRRI	DESSPHVDARLP	GSRYNATI
08K93_CHL2(127-224)	LGPLEPLLD	PGVSEINV	---	NGY	QNVY	EKGGCI	---	SLT	DIR	F	NDAHL	MKIDIKIYSRVGRRI	DESSPHVDARLP	GSRYNATI
08Y1N8_RAL50(99-195)	GPLEPLLD	PTISDILV	---	NIT	QVYV	ERRGKL	---	ELT	DIR	F	NDAHL	MKIDIKIYSRVGRRI	DESSPHVDARLP	GSRYNATI
087H46_VIBPA(131-228)	GPLEPLLD	PTISDILV	---	NGP	KNIY	ERRGKL	---	EKT	PH	T	F	DERHL	RNIIDIRIYVGRRI	DESSPHVDARLP
08DBQ5_VIBVU(143-240)	GPLEPLLD	KTYSIDILV	---	NGP	KNIY	ERRGKL	---	EKT	PH	T	F	DERHL	RNIIDIRIYVGRRI	DESSPHVDARLP
0989C7_RHILO(108-203)	LGPIEPLLD	DSIIDILI	---	NTH	KRFY	ERRGVI	---	EET	DIR	F	NDAHL	MKIDIKIYSRVGRRI	DESSPHVDARLP	
098LS9_RHILO(119-214)	GPLEPLLD	KTYSIDILV	---	NGP	KNIY	ERRGKL	---	EKT	PH	T	F	DERHL	RNIIDIRIYVGRRI	DESSPHVDARLP
08XQY3_RAL50(93-187)	GPLEDLLD	PAVEDILV	---	NGH	L	DRVNV	---	ERI	PYR	F	DNHLL	RIVRRL	APIGRRL	DESNPHVDARLP
089PI6_BRAJA(108-202)	GPLRPLLD	QSIDILV	---	NGP	SNIVY	ERRGKL	---	ERI	AVR	F	DNHLL	RIVRRL	APIGRRL	DESNPHVDARLP
08DA75_VIBVU(83-184)	GPIDQLVED	PSVDILV	---	NGP	EQIY	ERRGKL	---	LKT	DIR	F	RDKHLL	NVAQRVNAVGRRI	DESSPHVDARLP	
087182_VIBPA(70-165)	LGPLQALVND	DDISDINI	---	NGP	S	DIFI	---	EKS	PIQ	F	VNEK	QLNTIAKRIASVGRRI	DESSPHVDARLP	
08D7R1_VIBVU(70-165)	LGPLQALVND	DDISDINI	---	NGP	S	DIFI	---	EKS	PIQ	F	VNEK	QLNTIAKRIASVGRRI	DESSPHVDARLP	
089UI1_BRAJA(130-224)	GPLEPLLD	DSIIDILI	---	NGA	NTYI	EVGGKI	---	QRT	GIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
092YMI_RHIME(140-234)	GPLEPLLD	DSIIDILI	---	NGA	NTYI	EVGGKI	---	QRT	GIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
0988F4_RHIME(146-240)	GPLEPLLD	DSIIDILI	---	NGS	KNIY	EVNGKY	---	EQT	GIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
09A496_CAUCR(149-243)	GPLEPLLD	DSIIDILI	---	NGA	NTYI	EVGGKI	---	QRT	GIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
09L714_CAUCR(149-243)	GPLEPLLD	DSIIDILI	---	NGA	NTYI	EVGGKI	---	QRT	GIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
08UIS4_AGR75(136-230)	GPLEPLLD	DSIIDILI	---	NGS	QIY	EVGGKI	---	IES	DIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
092139_RHIME(111-205)	GPLEPLLD	DSIIDILI	---	NGA	NTYI	EVGGKI	---	EES	EIR	F	DNHLL	NICQRIYVGRRI	DESSPHVDARLP	
08KQI7_HAREDU(72-166)	GPITRELMED	DTVNDILV	---	NGP	DNIAI	ERRGVL	---	EKT	NK	T	F	INMEQL	TDIAKRLVYVGRRI	DESSPHVDARLP
09CHH7_PASHU(72-166)	GPITRELMED	ETVNDILV	---	NGP	DDVNV	ERRGVL	---	EKT	DK	F	ISNEQL	TDIAKRLVYVGRRI	DESSPHVDARLP	
09F5L0_AERAP(72-166)	GPLRDLMD	DTINDILV	---	NGP	DDVNV	ERRGVL	---	EKT	DK	F	ISNEQL	TDIAKRLVYVGRRI	DESSPHVDARLP	
09XC06_ACTAC(72-166)	GPLRDLMD	DTINDILV	---	NGP	DDVNV	ERRGVL	---	EKT	DK	F	ISNEQL	TDIAKRLVYVGRRI	DESSPHVDARLP	
082126_VERPE(73-167)	GPLRELMED	DSIIDINI	---	NGP	REIY	ERYGLL	---	KL	DR	F	VNNTQL	TDIAKRLVYVGRRI	DESSPHVDARLP	
087YT2_PSESH(88-181)	GPLEVLLD	SSVTEILV	---	NGP	SKVYV	ERDGL	---	HHT	DLR	F	ISDHVYVGRRI	APMGRRL	DESSPHVDARLP	
09H98_PSEAE(97-184)	LRD	PGVSEILV	---	NGP	GRVYV	EREGL	---	YQS	DLR	F	ISDHVYVGRRI	APMGRRL	DESSPHVDARLP	
0821A5_STRAW(92-186)	LRD	ASITEINV	---	NGP	DSIFV	ERRGVL	---	EQL	PLR	F	ASITEQL	MOTIERIYVGRRI	DESSPHVDARLP	
09KY93_STRCO(92-186)	LRD	ASITEINV	---	NGP	DSIFV	ERRGVL	---	EQL	PLR	F	ASITEQL	MOTIERIYVGRRI	DESSPHVDARLP	
083N17_TROWT(105-198)	GPLQDITDD	PDVEEFNI	---	NSP	EEVFL	AKNGKS	---	FAY	DI	K	L	TDS	QLRDL	ERMLQGTGRRI
083NE6_TROW8(105-198)	GPLQDITDD	PDVEEFNI	---	NSP	EEVFL	AKNGKS	---	FAY	DI	K	L	TDS	QLRDL	ERMLQGTGRRI
08R8D1_THEAC(77-169)	LGPFPEYIKM	DGVTOIS	---	FGT	RLNV	KMGVK	---	YDD	ER	G	F	ASIEVYIYERIAN	SGNISYAEPSKDALYD	

	131	140	146
006642_METY0(174-269)	PSFT-IRKFS		
Q9C4P2_METTL(165-262)	PSFT-IRKF		
Q9C4Q4_METMP(165-262)	PSFT-IRKF		
Y900_METJA(173-267)	PSFT-IRKF		
058292_PYRHO(157-254)	PSAT-IRKFA		
Q9UYH0_PYRAB(157-254)	PSAT-IRKFA		
Q8U3X0_PYRFU(157-254)	PSAT-IRKFA		
Q97B46_THEVO(157-260)	PSFT-IRKFSEVPLS		
Q9HKH8_THEAC(160-258)	PSFT-IRKFS		
Q9HQY3_HALNL(244-338)	PSLT-IR		
029213_ARCFU(239-336)	SNFT-IRKF		
Q8Q021_METHA(231-326)	SNFT-IRKFA		
Q8TLI0_METAC(231-326)	SNFT-IRKFA		
Q8P259_METHA(235-332)	SNFT-IRKF		
Q8TLF4_METAC(231-328)	SNFT-IRKF		
Q9YAP7_AERPE(190-287)	SNFT-IRKVS		
Q96XJ1_SULTO(127-230)	SNLT-IRKFSKVPIS		
Q97HB7_SULSO(129-230)	SNLT-VRKFSKIPIS		
029266_ARCFU(190-285)	STFT-IRKF		
029909_ARCFU(215-310)	STFT-IRKF		
029598_ARCFU(135-229)	SSFT-IRKF		
Q9HR79_HALNL(171-271)	SRAF-IRKYSEEPFT		
Q8PHR0_METHA(171-269)	SSFT-IRKFRKOPIT		
Q8TU40_METAC(171-269)	SSFT-IRKFRKOPIT		
Q8PYC5_METHA(179-271)	SSYT-IRKF		
Q8TJ15_METAC(478-576)	SSFT-IRKFKGDPIT		
Q8TLE0_METAC(240-340)	STFT-IRRFKSNPIS		
Q9Y9T0_AERPE(83-180)	STFT-IRKF		
P95941_SULSO(100-205)	STFD-IRKFKPKPIS		
Q971F6_SULTO(91-195)	STFD-IRKFKPKPLS		
Q97VE6_SULSO(140-244)	TTFW-IRKFKPEKPLT		
Q9YE75_AERPE(105-205)	SSFV-IRKYPEKPVV		
YC88_METJA(161-240)			
Q97420_SULTO(173-286)	SSFV-IRRFSESPIT		
Q97W53_SULSO(176-270)			
027737_METTH(146-241)	STLT-IRKF		
058384_PYRHO(220-314)	PTIT-IRKF		
Q9UYH7_PYRAB(222-316)	PTLT-IRKF		
Q8U256_PYRFU(232-326)	PTLT-IRKF		
Q8TXG7_METKA(214-316)	PTLT-IRKF		
Y781_METJA(169-265)	ATLT-IRKF		
069627_MYCTU(23-125)	TCLS-LRVLRPA		
Q82EK8_STRAW(104-205)	ACLS-LRVVRPRAFTL		
Q9X921_STRCO(185-286)	TCLA-LRVVRPRAFTL		
Q8FST4_COREF(61-163)	TCLS-MRILRQAS		
Q8NTK6_CORGL(22-118)	TCIS-VR		
Q83MR1_TROWT(47-147)	PLLS-VRPLSLKPITL		
Q83N86_TROWB(8-108)	PLLS-VRPLSLKPITL		
P94647_CHLLI(121-218)	PVLT-IRRFVAV		
Q8KF93_CHLTE(127-224)	PALT-IRRFVAV		
Q8Y1N8_RALSO(99-195)	PLLS-IRRFVAV		
Q87M46_VIBPA(131-228)	PSVS-IRRFVAV		
Q8DBQ5_VIBVU(143-240)	ASVS-IRRFVAV		
Q989C7_RHILO(108-203)	PLVS-IRKF		
Q98LS9_RHILO(119-214)	PLVS-IRKF		
Q8XQY3_RALSO(93-187)	PVVS-IRKF		
Q89PT6_BRAJA(108-202)	PCIS-IRKF		
Q8DA75_VIBVU(83-184)	VCIS-IRKFKPERQYDL		
Q87I82_VIBPA(70-165)	TSIS-IRKF		
Q8D7R1_VIBVU(70-165)	TSIS-IRKF		
Q89UI1_BRAJA(130-224)	PALT-IRKF		
Q92YM1_RHIME(140-234)	PTLT-IRKF		
Q98BF4_RHILO(146-240)	TALT-IRKF		
Q9A496_CAUCR(149-243)	PTLT-IRKF		
Q9L714_CAUCR(149-243)	PTLT-IRKF		
Q8UIS4_AGR75(136-230)	PALT-IRKF		
Q92T39_RHIME(111-205)	TALT-IRKF		
Q8KQI7_HAEDU(72-166)	TSIS-IRKF		
Q9CHH7_PASHU(72-166)	TSIS-IRKF		
Q9F5L0_HAEP(72-166)	TSVS-IRKF		
Q9XC06_ACTAC(72-166)	TSIS-IRKF		
Q8ZI26_YERPE(73-167)	TALS-IRKF		
Q87VT2_PSESM(88-181)	PCLS-IRK		
Q9HW98_PSEAE(97-184)	PCIS-IRK		
Q82IA5_STRAW(92-186)	PTLT-IRRFVAV-RAYTL		
Q9KY93_STRCO(92-186)	ATLT-IRRFVAV-RSFTL		
Q83N17_TROWT(105-198)	ISIN-VRKF		
Q83NE6_TROWB(105-198)	ISIN-VRKF		

Q8R8D1_THETN(77-169) PYII-IRK
 Q8G6X2_BIFLO(29-115) ARI5-IR
 Q97946_THEVO(62-156) PSIS-IRKLRRAAFT
 Q9JHR3_THEAC(48-142) PTIS-IRKLRSNPF
 Q8PUN4_METMA(478-583) LAYA-FRKHSLTPMTL
 Q8TR82_METAC(343-448) LAYA-FRKHSLTPMTL
 Q9X3Z9_BACAN(110-202) TTIIT-IRK
 Q82RF8_STRAM(124-204)
 Q9LOR8_STRCO(89-182) PALS-IRR
 Q9ACY2_STRCO(154-249) PSVV-IRKHRLR
 Q50338_ECOLI(29-126) LSFL-IRKHSLVVKTL
 Q46706_ECOLI(9-94)
 Q66169_AGRU(18-120) FT---IRRRASRLIPL
 Q8U692_AGRU(38-140) FT---IRRRASRLIPL
 TRBB_AGRU(18-120) FT---IRRRASRLIPL
 Q84G60_RHILY(18-120) FT---IRRRASRLIPL
 Q84HS1_RHIET(46-148) FT---IRRRALRLIPL
 Q9F5C2_AGRRH(18-120) FT---IRRRASRLIPL
 TRBB_RHISN(18-120) FT---IRRRASRLIPL
 Q93UM6_AGRU(18-120) FT---IRRRASRLIPL
 Q84EN3_BBBBB(24-127) FA---LRKRAIGVIPL
 Q8XW91_RALSO(29-132) FA---LRKRAVSIIGL
 Q89B77_BRAJA(22-125) FA---LRKPAVAVFTL
 Q98P49_RHILO(22-125) FA---LRKPAVAVFTL
 Q989J4_RHILO(19-121) FA---LRKPAAKLYTL
 Q56469_ECOLI(23-125) FA---LRKKGVAIFTL
 Q9AHH7_COMTE(23-125) FA---LRKKAVAIFTL
 Q8RSJ6_PRBO2(23-125) FA---LRKKAVAIFTL
 Q57316_ECOLI(22-124) FA---LRKKAVAIFTL
 Q60209_ECOLI(1-103) FA---LRKKAVAIFTL
 Q66291_AGRU(13-113) VSLT-IRRPSPFRVSGL
 Q52609_AGRU(13-113) VSLT-IRRPSSRVSGL
 VirB11(13-113) VSLT-IRRPSSRVSGL
 VIBY_AGRU(13-113) VSLT-IRRPSSRVSGL
 Q8VT92_AGRU(11-113) VSLT-IRRPSPNRVSEL
 Q9F592_AGRRH(11-113) VSLT-IRRPSPNRVSEL
 Q9RP08_RHIET(36-138) VSLT-IRRPSPHVSGL
 Q9RGC0_AGRU(14-110) VSLT-IRRPSSRV
 VIBY_AGRU(14-110) VSLT-IRRPSSRV
 Q8KJH3_RHILO(13-112) VSLT-IRRPSSRV
 Q84BH3_BARQU(23-123) ISMT-IRKPSRNFSL
 Q8GJ57_BBBBB(23-123) ISMT-IRKPSQSFSL
 Q9RNC7_BARHE(23-123) ISMT-IRKPSRSFSL
 Q8KIN5_RHIET(17-117) VSIT-IRKPSVSLTL
 Q92203_RHIME(18-117) VSIT-IRKPSVIFTL
 Q93DB4_AGRU(19-117) VSMT-IRKPSVDFSL
 Q9PHJ0_XYLF(26-122) VSIT-IRKP
 Q8FXK7_BRUSU(33-122) ISVT-IRKP
 Q9KIS5_BRUAB(33-122) ISVT-IRKP
 Q9RPY4_BRUSU(33-122) ISVT-IRKP
 Q8YDY9_BRUME(32-121) ISVT-IRKP
 Q91UR7_RHIME(33-124) ISVT-IRKPS
 Q91UM6_ECOLI(29-121) VSVT-IRKPS
 Q9F253_ACTAC(21-112) ISIT-VRKP
 Q8P7X7_XANCP(29-133) VSIT-IRLPSKHKTTL
 Q8PJB7_XANAC(23-121) VSIT-IRLPS
 Q8VRC8_HAEAE(28-124) IPIT-IRKPS
 Q9F530_ECOLI(37-130) VVIS-IRKPSLTRFT
 Q8GLV8_RICTY(20-95)
 Q8RPL4_ANAPH(12-115) IVMS-IRKPSANQLSL
 Q8RPH0_EHRCH(12-115) VVMS-IRKPSANQLSL
 Q9K437_BBBBB(10-108) VVMS-IRKPSS
 Q9K444_BBBBB(10-108) VVIS-IRKPSS
 Q92INO_RICCN(20-108) IITYA-IRKP
 Q92DN5_RICPR(8-115) IITYS-IRKPSGMNLT
 Q9EUF0_ECOLI(27-116) VSIT-IRKPSV
 Q8RPD7_LEGPN(22-110) LSIR-KF
 Q9RLR3_LEGPN(22-110) LSIR-KF
 Q981R8_RHILO(21-114) GAFA-IRKQVVK
 Q9A5M4_CAUCR(18-106) LALA-IRK
 Q847E3_PSEPU(17-122) GGIVCIRKP
 Q8VHF6_PSEPU(11-129) GGIVCIRKPKRKQITL
 Q8PRJ5_XANAC(14-128) IANT-IRKQSLVRHSL
 P96528_HELPHY(39-136) TISISIRIPS
 Q9ZLV2_HELPIJ(39-136) TISISIRIPS
 Q847A5_CAMJE(15-107) HISITIRKPS
 Q8K423_BBBBB(38-131) AMSISLRFSS
 Q8KYG1_BACAN(86-164)
 Q9RN07_BACAN(88-166)

Consensus iRk.....



CMGA_BACHO(141-215)	DLTGATGTS6GKTTLYAHLQKALAH	QALHIVTI	EDPIEQUNPPTQF	EHNEKKG-LTYEVLKRALRH	DPD	
CMGA_BACSU(127-214)	ATLLSFLK	HSHGHLIFTGPTGSGKTTLYAHLQYAKKH	FARMIVTL	EDP'ETROEDVLOV	Q'NEKKG-VTYAGLKRILRH	DPD
Q8YQ73_BACLI(129-214)	LLSFLK	HSHGHLIFTGPTGSGKTTLYSLIDYAKKH	FARMIVTL	EDP'ESRSENLQV	Q'NEKKG-VTYAGLKRILRH	DPD
Q8L1Z1_BACRA(129-214)	LLSFLR	VSHGLLVFTGPTGSGKTTLYAHLVETARK	KTRRIVTL	EDP'EKRMDDVLOI	Q'NEKKG-LTYEVLKRALRH	DPD
Q8EQL8_BACRA(142-215)		VFTGPTGSGKTTLYAHLVETARK	KTRRIVTL	EDP'EKRSDDVLOI	Q'NEKKG-LTYEVLKRALRH	DPD
Q8EQL8_DCEIN(141-215)		DLTGATGTS6GKTTLYAHLVLSLRE	HSCQITVL	EDP'EKRMDDVLOI	Q'NEKKG-LSYHTGLKRALRH	DPD
Q8Y7D6_LISHO(139-213)		FLPSGTS6GKSSSYSLASSTENK	DELQITTI	EDP'EHYSPGFLOI	E'NEKKS-LTYAPIDRSVLRH	DPD
Q92C07_LIGIM(139-213)		FLPSGTS6GKSSSYSLASSTENK	TELQITTI	EDP'EHYSPGFLOV	E'NEKKG-LTYAPVRSVLRH	DPD
Q8CP28_STAREP(136-209)		LFSGPTGSGKSTLYHQVSYANKK	LMLNIVSI	EDP'EQUNGITQI	S'NEKKG-INVESSKRALRC	DPD
Q99TY0_STARK(133-206)		LFSGPTGSGKSTLYHQVSYANKK	LMLNIVSI	EDP'ENQDPIVQI	N'NOKKG-INYNSKRALRC	DPD
6SPE_ERACH(252-331)		KPHGIDLYTGTPTGSGKSTLYAHLSET-NS	ARMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
6SPE_ERACH(252-330)		RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	SERMINTV	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
6SPE_ERACH(252-330)		RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	ARMINTV	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
6SPE_ERACH(252-332)		KPHGIDLYTGTPTGSGKSTLYAHLSET-NS	ARMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q92FXG_BBBB(255-333)		KPHGIDLYTGTPTGSGKSTLYAHLSET-NS	SERMILTY	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
6SPE_KLEPN(226-324)	DLTLGNTF-ALLRQVGLIA	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	ARMINTV	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8EKC8_SHEOK(253-351)	DLKQLGNTD-SIRAKFDELR	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	KDMILTY	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q9F0Y8_SHEPU(244-342)	DLKQLGNTD-SIRAKFDELR	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	KDMILTY	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8VPC7_ECOLI(232-327)	RLGLSQ-QLTAQLRQLLH	KPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	HSMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8VW9_ECOLI(232-327)	RLGLSQ-QLTAQLRQLLH	KPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	HSMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
6SPE_VIBCH(249-333)	FRRLIK	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	SERMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q87D6_VIBAK(246-330)	FRRLIG	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	HEMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8D0T1_VIBAK(245-329)	FRRLIS	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	HEMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8P5B7_XANCP(232-324)	MPA-GYNGVQRALQ	VPNGIYLYTGTPTGSGKSTLYAHLSEL-NS	SRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8PPJ0_XANCP(226-320)	MPP-AYNMTVQRALQ	VPNGIYLYTGTPTGSGKSTLYAHLSEL-NS	SRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q9A0Q2_CAUCR(227-319)	MSP-DVLSOLETAVR	EPHGIILYVGTPTGSGKSTLYAHLSEL-NS	HSMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8F3M7_LEPIM(297-387)	P-EIQSLRSLIY	EPHGIILYVGTPTGSGKSTLYAHLSEL-NS	HEMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q52292_PSEPU(231-315)	LRSLA	RPNGIYLYTGTPTGSGKSTLYAHLSEL-NS	SRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8A0S0_RALSO(276-352)	LRSLA	RPNGIYLYTGTPTGSGKSTLYAHLSEL-NS	SRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q9F1Q0_BURCE(256-338)	KLIG	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	ATTMINTV	EDPIEYDLGIVGQI	Q'NEKKG-NTFARGLRALRQ	DPD
Q92F85_BURPS(257-339)	KLIG	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	ATTMINTV	EDPIEYDLGIVGQI	Q'NEKKG-NTFARGLRALRQ	DPD
6SPE_ECOLI(242-318)		HGIDLYTGTPTGSGKSTLYAHLSEL-NS	PRMILTY	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8FC22_ECOLI(242-318)		HGIDLYTGTPTGSGKSTLYAHLSEL-NS	PRMILTY	EDPIEYELGIGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8G8E5_BBBB(246-324)		HGIDLYTGTPTGSGKSTLYAHLSEL-NS	QSLMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q44254_AERSA(290-379)	QQLDIISTIIS	DRNGIYLYTGTPTGSGKSTLYAHLSEL-NS	EKKIITA	EDPIEYDLGIVGQI	Q'NSDGG-LOFATILRSALRQ	DPD
Q82Y45_NITEU(306-400)	LDP-SGLQALRALD	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	PERKIVTY	EDPIEYDLGIVGQI	Q'KPKDG-LTYAGLRSVLRH	DPD
Q870F3_XYLFT(312-410)	DFQKLGFD-ELLMRFSRVLE	HPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	TGKIIITV	EDPIEYDLGIVGQI	Q'KPKDG-LOFANALRSIVRQ	DPD
Q9PD62_XYLFR(312-410)	DFQKLGFD-ELLMRFSRVLE	HPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	TGKIIITV	EDPIEYDLGIVGQI	Q'KPKDG-LOFANALRSIVRQ	DPD
Q87ZV5_PSESN(326-411)	EFLOVLE	RPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	PERKIVTY	EDPIEYDLGIVGQI	Q'KPKDG-LOFANALRSIVRQ	DPD
Q97M07_CLOAR(237-322)	EYAGLLE	KPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	EKKIITA	EDPIEYDLGIVGQI	N'NWKKG-LTYAGLKRILRH	DPD
Q8SH00_BRAJA(315-395)	LA	HPHGIDLYTGTPTGSGKSTLYAHLSEL-NS	PTKILITI	EDPIEYDLGIVGQI	Q'KPKDG-LTYAGLKRILRH	DPD
Q32567_ECOLI(255-328)		ILYVGTPTGSGKSTLYAHLSEL-NS	ARMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q82884_ECO5(255-328)		ILYVGTPTGSGKSTLYAHLSEL-NS	ARMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q82HS0_YERPE(253-326)		ILYVGTPTGSGKSTLYAHLSEL-NS	HEMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q9A0M7_LEGPN(250-323)		ILYVGTPTGSGKSTLYAHLSEL-NS	VTRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q915M9_PSEAE(242-315)		ILYVGTPTGSGKSTLYAHLSEL-NS	SRMILTY	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
NOFB_HREIN(241-333)	MTE-NOQQRFQRVLS	DPQGLILYVGTPTGSGKSTLYAHLSEL-NS	PKMINTV	EDPIEYDLGIVGQI	Q'NPKDG-LOFANALRSIVRQ	DPD
Q9JW9_ACTAC(232-334)	PVQLAFGEIGATE-SQQQRFRRALS	DPQGLILYVGTPTGSGKSTLYAHLSEL-NS	SEKINTV	EDPIEYDLGIVGQI	Q'NPKDG-LOFANALRSIVRQ	DPD
Q9CP8_PASNO(240-332)	MTR-DOQQRFRRALS	DPQGLILYVGTPTGSGKSTLYAHLSEL-NS	TEKILITI	EDPIEYDLGIVGQI	Q'NTQDG-LOFANALRSIVRQ	DPD
Q8KRY5_ACTAC(261-334)		ILYVGTPTGSGKSTLYAHLSEL-NS	SEKINTV	EDPIEYDLGIVGQI	Q'NPKDG-LOFANALRSIVRQ	DPD
6SPE_XANCP(321-334)		MLYVGTPTGSGKSTLYAHLSEL-NS	DMKIIITV	EDPIEYDLGIVGQI	Q'KPKDG-LOFANALRSIVRQ	DPD
Q8PG52_XANCP(285-358)		MLYVGTPTGSGKSTLYAHLSEL-NS	DMKIIITV	EDPIEYDLGIVGQI	Q'KPKDG-LOFANALRSIVRQ	DPD
Q8K285_ACEII(319-392)		ILYVGTPTGSGKSTLYAHLSEL-NS	VTRKIVTY	EDPIEYDLGIVGQI	Q'NPKDG-LTYAGLKRILRH	DPD
Q67452_AQUAE(226-301)		ILYVGTPTGSGKSTLYAHLSEL-NS	PKMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q67782_AQUAE(226-301)		ILYVGTPTGSGKSTLYAHLSEL-NS	PKMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8RNG1_THETW(312-385)		MLYVGTPTGSGKSTLYAHLSEL-NS	PKMINTV	EDPIEYDLGIVGQI	Q'NTKYD-NTFARGLRALRQ	DPD
Q8K135_CLOPE(319-392)		ILYVGTPTGSGKSTLYAHLSEL-NS	ESKIIITV	EDPIEYDLGIVGQI	N'NWKKG-LTYAGLKRILRH	DPD
Q68431_LEGPN(329-402)		ILYVGTPTGSGKSTLYAHLSEL-NS	TEVNIITA	EDPIEYDLGIVGQI	N'NPKKG-LTYAGLKRILRH	DPD
PILF_NEIG0(311-384)		ILYVGTPTGSGKSTLYAHLSEL-NS	ESVNIITA	EDPIEYDLGIVGQI	N'NWKKG-LTYAGLKRILRH	DPD
Q9J75_NEIMR(311-384)		ILYVGTPTGSGKSTLYAHLSEL-NS	ESVNIITA	EDPIEYDLGIVGQI	N'NWKKG-LTYAGLKRILRH	DPD
Q8XV5_RALSO(329-402)		ILYVGTPTGSGKSTLYAHLSEL-NS	DMKIIITV	EDPIEYDLGIVGQI	N'NWKKG-LTYAGLKRILRH	DPD
Q85279_AERSA(310-396)	QAYLRALS	KPQGHILYVGTPTGSGKSTLYAHLSEL-NS	TEVNIITA	EDPIEYDLGIVGQI	Q'NPKKG-LTYAGLKRILRH	DPD
TOPB_AERHY(310-396)	QAYLRALS	KPQGHILYVGTPTGSGKSTLYAHLSEL-NS	TEVNIITA	EDPIEYDLGIVGQI	Q'NPKKG-LTYAGLKRILRH	DPD
Q8EAP6_SHEOK(307-397)	P-DQEKLYLEHLA	KPQGHILYVGTPTGSGKSTLYAHLSEL-NS	ARMINTV	EDPIEYDLGIVGQI	H'NWKKG-LTYAGLKRILRH	DPD
PILB_PSEAE(311-395)	YLALRK	DPQGHILYVGTPTGSGKSTLYAHLSEL-NS	DMKIIITV	EDPIEYDLGIVGQI	N'NPKDG-LOFANALRSIVRQ	DPD
Q888U0_PSESN(303-393)	P-EOKALYLEALK	DPQGHILYVGTPTGSGKSTLYAHLSEL-NS	DMKIIITV	EDPIEYDLGIVGQI	N'NPKDG-LOFANALRSIVRQ	DPD

1 10 20 30 40 50 60 70 80 90 100 106

CMGA_BACHD(216-272) EIRDQTTAVYVRAALTGHLVLA---TIHSANRGTITRLCEMG-VLHDLR---EVVVAIIAQ
CMGA_BACSK(215-304) EIRDQETAEIAYVRAHTGHLVLT---SLHTDRKGAIRYRLLEFG-INMNEIE---QTVIATAAQRLLYDLACPCFCEMG-----CSSYYCROSRNTRRASVYEL
Q32T72_ECCL(317-405) EIRDHDSAITAKRAHTGHLVLT---TIHNDPNIILELENEG-VQARHIDPQLFIGLLSQRLYQLICPHCRNP-----WMDVYASRRTEDEARLVE
Q8E018_OCEIH(216-293) EIRDRTAQIFALEAALTGHLVFS---TLHAKNAIGITIFRLKENG-LKIDOLE---QSLLATGAIQLLPICRQKRR-----RAIMELLE
GSPF_AERHY(332-390) EIROLETAQIADVASLTGHLVMS---TLHNTATIGAITRLRDMG-IIEPFLS---SSLLG/LAQRLL
GSPF_VIBCH(334-392) EIROLETAQIADVASLTGHLVMS---TLHNTAVGAY/TRLRDMG-IIEPFLS---SSLLG/LAQRLL
Q87T06_VIBPK(331-389) EIROLETAQIADVASLTGHLVMS---TLHNTAVGAITRLRDMG-IIEPFLS---SSLLG/LAQRLL
Q8D0T1_VIBVUK(330-388) EIROLETAQIADVASLTGHLVMS---TLHNTAVGAITRLRDMG-IIEPFLS---SSLLG/LAQRLL
Q8EKC8_SHEON(352-410) EIROLETAQIADVASLTGHLVLS---TLHNTASGAI/TRLQDMG-VEPFLV---SSLLG/LAQRLL
Q9FY08_SHEPUK(343-401) EIROLETAQIADVASLTGHLVLS---TLHNTASGAI/TRLQDMG-VEPFLV---SSLLG/LAQRLL
Q9AGH7_LEGPK(324-382) EIROLETAQIADVASLTGHLVLS---TLHNTALGAL/TRLRDMG-VEPFLS---SSYGLIAQRLL
Q8P5B7_XANPC(325-383) EIROLETAQIADVASLTGHLVLS---TVHTNDVAVGAY/TRLRDMG-IIEPFLA---SSRL/LAQRLL
Q8PPJ0_XANPC(321-379) EIROLETAQIADVASLTGHLVLS---TVHTNDVAVGAY/TRLRDMG-IIEPFLA---SSRL/LAQRLL
Q9ABQ2_CAUCR(320-378) EIROLETAQIADVASLTGHLVLS---TVHTNDVAVGAY/TRLRDMG-VEPFLA---STLRLVIAQRLL
Q83E28_COXBUK(367-437) EIROFETASIAVRAAHTGHLVLS---TLHTNSAVVECI/RLIDMG-IIEPFLA---SVLKYVVAQRLLYRQLCAHQCAT-----K
Q8P3I3_XANPC(429-497) EIROLETAQIADVASLTGHLVLS---TLHTNDASAITRLDLG-VPHYLV---STLNGVLAQRLLYRQLCVHCKR
Q8PEY8_XANPC(409-477) EIROLETAQIADVASLTGHLVLS---TLHTNDASAITRLDLG-VPHYLV---STLNGVLAQRLLYRQLCVHCKR
Q8XUS0_RALSO(353-437) EIROLETAQIADVASLTGHLVLA---TLHTNDASAV/TRLIDMG-IIEPFLS---SSLLG/LAQRLLYRQLCVHCKR-----EYLELTPTEIARVAG
Q9F1Q0_BURCE(339-414) EIROLETAQIADVASLTGHLVLA---TLHTNDASAV/TRLIDMG-VEPYLLA---SSLLG/LAQRLLYRQLCPVCKEE-----RHEGGR
Q9ZF85_BURPS(340-417) EIROLETAQIADVASLTGHLVLA---TLHTNDASAV/TRLIDMG-VEPYLLA---SSLLG/LAQRLLYRQLCPVCKEE-----RHEGGRV
Q9ZFV6_BBBBK(334-401) EIROQETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLVDMG-VEPFLS---SSLLG/LAQRLLYRQLCVHCKR
Q97FA7_CLOAB(323-390) EIROLETAQIADVASLTGHLVLS---TLHTNDASAV/TRLIDMG-IIEPFLA---DALNGVIAQRLLYRQLCVHCKR
Q8RAG1_THETK(386-447) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-IIEPFLA---SSVYVIAQRLLYRQLCVHCKR
Q8ZHS0_YERPE(327-389) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---SSLLAISQRLLYRQLCVHCKR
Q87DF3_XYLFT(411-469) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---STINGVLAQRLLYRQLCVHCKR
Q9FDG2_XYLFR(411-469) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---STINGVLAQRLLYRQLCVHCKR
Q87ZY5_PSESK(412-475) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---STINGVLAQRLLYRQLCVHCKR
Q8K285_ACEDI(393-451) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---AVLRGVAQRLLYRQLCVHCKR
Q8DML4_SYNEL(445-507) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---ASLIGVIAQRLLYRQLCVHCKR
Q8YU08_ANASP(442-500) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---SSLIGVIAQRLLYRQLCVHCKR
Q8VRL1_THETK(393-451) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---AALIGVIAQRLLYRQLCVHCKR
Q9RT05_DEIRK(674-732) EIROQETAQIADVASLTGHLVLA---TLHTNDASAV/TRLIDMG-IIEPFLS---AAVYVIAQRLLYRQLCVHCKR
Q88B0_RHDL(349-405) EIROLETAQIADVASLTGHLVFS---TLHTNSAVGAY/TRLIDMG-IDGYLLG---ATIRGVAIQ
Q8X135_CLOPE(393-451) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VORYLV---NAIKGVAIQ
Q89H0_BRAJK(396-454) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-IIEPFLS---STLRVVAQRLLYRQLCVHCKR
Q68431_LEGPK(403-465) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VORYLV---SSVTLIAQRLLYRQLCVHCKR
Q85279_AERSK(397-458) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VORYLV---SSVTLIAQRLLYRQLCVHCKR
TAPB_AERHY(397-458) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VORYLV---SSVTLIAQRLLYRQLCVHCKR
PILB_PSEPE(396-457) EIROLETAQIADVASLTGHLVMS---TLHTNSAVGAY/TRLIDMG-VORYLV---TSVNLIAQRLLYRQLCVHCKR
Q9ZEL4_PSEST(397-458) EIROLETAQIADVASLTGHLVMS---TLHTNSAVGAY/TRLIDMG-VORYLV---TSVNLIAQRLLYRQLCVHCKR
Q888U0_PSESK(394-455) EIROLETAQIADVASLTGHLVMS---TLHTNSAVGAY/TRLIDMG-VORYLV---TAINLIAQRLLYRQLCVHCKR
Q9F670_PSEFL(396-457) EIROLETAQIADVASLTGHLVMS---TLHTNSAVGAY/TRLIDMG-IIEPFLS---TAVNLIAQRLLYRQLCVHCKR
Q87L7_VIBPK(394-455) EIROLETAQIADVASLTGHLVMS---TLHTNSAVGAY/TRLIDMG-VEPFLA---SSSLIAQRLLYRQLCVHCKR
Q46523_BACHD(392-453) EIROITAEIADVASLTGHLVLS---TLHTNDVPTIARLVNIG-IIEPFLS---ASVNLIAQRLLYRQLCVHCKR
Q8D1B8_YERPE(345-406) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-IIEPFLS---SSLKYVIAQRLLYRQLCVHCKR
Q8ZB14_YERPE(339-400) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-IIEPFLS---SSLKYVIAQRLLYRQLCVHCKR
Q87LB1_VIBPK(392-450) EIROQETVEIGLRAALTGHLVLS---TLHTNDVDSALRLIDMG-APGYLV---SAVRVVAQRLLYRQLCVHCKR
Q9KUY7_VIBCH(393-451) EIROQETVEIGLRAALTGHLVLS---TLHTNDVDSALRLIDMG-APGYLV---SAVRVVAQRLLYRQLCVHCKR
Q8D0C1_VIBVUK(392-450) EIROQETVEIGLRAALTGHLVLS---TLHTNDVDSALRLIDMG-APGYLV---SAVRVVAQRLLYRQLCVHCKR
Q8EAC0_SHEON(394-456) EIROQETVEIGLRAALTGHLVLS---TLHTNDVDSALRLIDMG-APGYLV---SALRVAQRLLYRQLCVHCKR
Q894E4_CLOTE(325-383) EIROKETAQIADVASLTGHLVLA---SLHTKQPLSS/IRLIDMG-VOPYLLA---EALNAISQRLLYRQLCVHCKR
Q8RHE2_FUSHK(253-311) EIROLETAQIADVASLTGHLVFS---TLHNSDLSGICNRLVNLG-IDSYLLS---LVLQVYVIAQRLLYRQLCVHCKR
HOFB_HAEDN(334-390) EIRODESAIDVRAAQTGHLVLS---TLHTNDASAITRLDLG-IQGYEIK---NSLLVIAQRLLYRQLCVHCKR
HOFB_ECCL(292-346) EIROGETAEIADVASLTGHLVLS---TLHTNSTCET/RLQDMG-VARYVLS---SALTYVIAQRLLYRQLCVHCKR
Q8X975_ECOS(292-346) EIROGETAEIADVASLTGHLVLS---TLHTNSTCET/RLQDMG-VARYVLS---SALTYVIAQRLLYRQLCVHCKR
Q8FL53_ECCL(292-346) EIROGETAEIADVASLTGHLVLS---TLHTNSTCET/RLQDMG-VARYVLS---SALTYVIAQRLLYRQLCVHCKR
Q8Z9F7_SALTI(292-346) EIROGETAEIADVASLTGHLVLS---TLHTNSTCET/RLQDMG-VARYVLS---SALTYVIAQRLLYRQLCVHCKR
Q8ZRT3_SALTY(292-346) EIROGETAEIADVASLTGHLVLS---TLHTNSTCET/RLQDMG-VARYVLS---SALTYVIAQRLLYRQLCVHCKR
GSPF_XANPC(395-445) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---STI
Q8P6S2_XANPC(359-409) EIROLETAQIADVASLTGHLVLS---TLHTNSAVGAY/TRLIDMG-VEPFLS---STI
Q84575_CHLTR(329-380) EIROQETAQIADVASLTGHLVYS---TLHTNDVSAI/PRLLDMG-VEPYLLS---ATHI
Q9PJG9_CHLNUK(328-379) EIROQETAQIADVASLTGHLVYS---TLHTNDVSAI/PRLLDMG-VEPYLLS---ATHI
Q82LJ3_CHLCV(325-375) EIROQETAQIADVASLTGHLVYS---TLHTNDVSAI/PRLLDMG-VEPYLLS---ATHI
Q9Z790_CHLPK(324-374) EIROQETAQIADVASLTGHLVYS---TLHTNDVSAI/PRLLDMG-VEPYLLS---ATHI
Q88R7_PSESK(419-469) EIROLETAQIADVASLTGHLVLS---TLHTNDASAV/TRLIDMG-VORYLV---ATI
Q9HTY0_PSEPE(419-468) EIROLETAQIADVASLTGHLVLS---TLHTNDASAV/TRLIDMG-VORYLV---ATI
Q88CJ1_PSEPK(411-462) EIROLETAQIADVASLTGHLVLS---TLHTNDASAV/TRLIDMG-VORYLV---ATI

Q44254_AERSA(380-430) EMDKETAQAIQASLTGHLVFS---TLHTNDAPSSFIRLKDIG-IPDYLIK---STI
Q9PHJ1_CAMJE(360-414) EIRDEESLDIALKASLTGHLVLS---TLHTNDALSTIDRLDNG-AKSYLIA---SALSLYI
Q88V35_LACPL(210-263) EIROAETARADVQASLTGHLVLS---TIHARGVYGIIPRLQLG-VEARVLE---QALTAH
GSPE_ECOLI(319-362) EIROETAQIADVQASLTGHLVLS---TLHTNSASGAVTRLRDMG-VEP
Q8FC22_ECOLD(319-362) EIROETAQIADVQASLTGHLVLS---TLHTNSASGAVTRLRDMG-VEP
Q8G8E5_BBBB(325-368) EIROETAQIADVQASLTGHLVLS---TLHTNSASGAVTRLRDMG-VEP
GSPE_PSEAE(333-376) EIROETAQIADVQASLTGHLVLS---TLHTNSAIGAITRLYDMG-IEP
Q8VPC7_ECOLI(328-371) EIROETAQIADVQASLTGHLVLS---TLHTNTAVGAIIRLQDMG-VEP
Q8VRS9_ECOLI(328-371) EIROETAQIADVQASLTGHLVLS---TLHTNTAVGAIIRLQDMG-VEP
Q52292_PSEPU(316-359) EIROETAQIADVQASLTGHLVLS---TLHTNSAVGAVTRLRDMG-IEP
Q88P06_PSEPK(317-360) EIROETAQIADVQASLTGHLVLS---TLHTNNAVAVTRLRDMG-IEP
GSPE_ERACH(331-374) EIROETAQIADVQASLTGHLVLS---TLHTNSALGALSRLQDMG-IEP
Q32567_ECOLI(329-372) EIROETAQIADVQASLTGHLVLS---TLHTNSAAGALSRLQDMG-IPP
Q82884_ECOS7(329-372) EIROETAQIADVQASLTGHLVLS---TLHTNSAAGALSRLQDMG-IPP
Q67452_AQME(302-345) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9I0G1_PSEAE(399-442) EIROETAQIADVQASLTGHLVLS---TLHTNDVSAFTRLIDMG-VEP
Q9I5N9_PSEAE(316-359) EIROETAQIADVQASLTGHLVLS---TLHTNDVSAFTRLIDMG-VEP
Q82V45_NITEUK(401-446) EIROETAQIADVQASLTGHLVLS---TLHTNTAVGAIIRLQDMG-VEP
Q8F3H7_LEPDK(388-433) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9WZU1_THENK(392-437) EIROETAQIADVQASLTGHLVLS---TLHTNTAVGAIIRLQDMG-VEP
Q55155_SVNY3(445-488) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q82U87_NITEUK(391-435) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q88H78_PSEPK(427-485) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8XSK7_RALSO(259-310) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8X7G3_RALSO(391-435) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8XV10_RALSO(395-435) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q07375_ECOLI(310-370) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9KHM5_SALDU(313-376) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9LBE1_SALTI(313-376) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8KR27_YERPS(311-371) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9F536_ECOLI(327-387) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q46778_ECOLI(338-398) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q47070_ECOLI(338-398) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q67782_AQME(393-436) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8XJB6_CLOPE(300-348) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
GSPE_ERACH(331-370) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
GSPE_KLEPN(325-364) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
PILF_NEIGD(385-424) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9JR75_NEDAK(385-424) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q87AA1_XYLF(406-449) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8P673_XANPC(407-450) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9PAH4_XYLF(406-449) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8PHL2_XANPC(407-450) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8XV5_RALSO(403-446) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8DC27_VIBVU(395-438) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8VYV2_VIBVU(395-438) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8EJP6_SHEOK(398-437) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9KPE4_VIBCH(394-433) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9X4G8_VIBCH(394-433) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q82SM4_NITEUK(595-638) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q06666_STRGC(207-257) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q85193_STRPK(207-265) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8D086_STRGC(207-265) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q97NH6_STRPK(207-265) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8D549_STRMK(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8E236_STRGC(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8E7J5_STRGC(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8K8W0_STRPK(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8P2Y1_STRPK(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9A1T9_STRPK(208-266) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8E279_LACLC(206-264) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9C0T8_LACLC(206-264) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q83388_ENTFA(212-269) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q99TV0_STRPK(207-265) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q8KRY5_ACTAC(335-374) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9JRM9_ACTAC(335-374) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q9CFF8_PASHUK(333-372) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q818L0_BACCR(216-254) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP
Q81LZ1_BACCR(215-256) EIROETAQIADVQASLTGHLVLS---TLHTNDAPSATIRLQDMG-IEP

Q51532_PSERE(204-241)
Q87LJ8_VIBPK(202-242)
Q8DCB2_VIBVUK(202-242)
Q9KUG2_VIBCH(202-242)
Q8EB25_SHEON(204-247)
Q82VU9_NITEUK(211-249)
Q9JY63_NEDMB(208-246)
Q9K053_NEDMB(208-246)
Q9PCX2_XYLFK(207-249)
Q52185_LEGPM(235-272)
Q93TT3_VIBCH(314-357)
TCPT_VIBCH(314-357)
Q8KYG1_BACFK(290-328)
Q9RNQ7_BACFK(292-330)
Q29598_ARCFK(341-378)
Q66422_METVQ(381-468)
Q9C404_METHP(375-462)
Q9C4P2_METTL(375-462)
Y9C6_METJA(380-467)
Q9H0Y3_HALNL(454-541)
Q58292_PYRHK(366-444)
Q9UYH0_PYRHK(366-444)
Q8U3X0_PYRHK(366-444)
Q97846_THEVO(367-445)
Q9HKW8_THEAC(370-448)
Q29213_ARCFK(456-535)
Q8Q021_METAK(445-524)
Q8TLI0_METAC(445-524)
Q8P2S9_METAK(446-526)
Q8TLF4_METAC(442-524)
Q96JL1_SULTO(336-421)
Q978B7_SULSO(336-421)
Q9Y9P7_AERPE(399-478)
Q29266_ARCFK(399-477)
Q29909_ARCFK(424-502)
Q8PYC5_METAK(386-465)
Q8TJ15_METAC(685-764)
Q9HR79_HALNL(379-457)
Q8PHR0_METAK(378-453)
Q8TU40_METAC(378-456)
YC87_METJA(109-188)
Q8TLE0_METAC(454-542)
Q82UHS_PYRHK(119-202)
Q9Y9T0_AERPE(297-381)
Q97420_SULTO(394-474)
Q9YE75_SULTO(314-392)
Q27737_METHK(359-446)
Q8TYG7_METKA(430-519)
Q58384_PYRHK(973-104)
Q9UYH7_PYRHK(651-718)
Q8U256_PYRHK(987-105)
Q8ZYH4_PYRHK(329-401)
P95941_SULTO(312-390)
Q971F6_SULTO(302-373)
Q97YE6_SULSO(353-429)
Y781_METJA(575-630)
Q25965_HELPY(233-298)
Q54373_HELPY(233-298)
Q9ZJ2_HELPJ(233-298)
Q8KNZ2_HELPJ(235-306)
Q8RNY2_HELPY(233-304)
Q9KIR9_CAMJE(230-305)
Q50338_ECOLD(269-318)
Q8FYK7_BRUSK(259-315)
Q8YDY9_BRUM(258-314)
Q9KIS5_BRUM(259-315)
Q9RFX4_BRUSK(259-308)
Q66291_AGRUK(244-310)
Q9F592_AGRHK(244-310)

EVRSRETHOHVFAFAETGHLCLA---TLHANNANQALERII
EIRSRETHEYMTFAETGHLCHA---TLHANNANQALERILHLV
EIRSRETHEYMTFAETGHLCHA---TLHANNANQALERILHLV
EIRSRETHEYMTFAETGHLCHA---TLHANNANQALERILHLV
EIRTQETHEFALSFAETGHLCHA---TLHANNANQALDRIMHLYPES
EIRDRETHOYIAFAFAETGHLCHA---TLHANSANQALDRIMH
EIRDRETHOYIAFAFAETGHLCHA---TLHANSANQALDRIMH
EIRTQETMOHAIISFSETGHLVHC---TLHANNANQALDRIMHFFPE
ECROAETISARLEALTLGHVYYT---TLHATSGVARETHRLV
EIRDKPTVEALSSAVESGHVCLT---TIHAGSVVSVLQRLSGLGKKA
EIRDKPTVEALSSAVESGHVCLT---TIHAGSVVSVLQRLSGLGKKA
ELRGKETYEHIQAVLSGHVYYT---SLHSDVARETSPKRLVNM
ELRGKETYEHIQAVLSGHVYYT---SLHSDVARETSPKRLVNM
EVRGRE-AQTLFQAHSTGHASYS---TLHAGDINQMYRLES
EIRSV-EGAVAFQAHQTGHVY-LS--TFHANNVRKMIQRLTGD-PINIPQTFMDNLNIALFQLAYYT-----RG----RFLRRVYVVEIEEGYYKEVDGYYT
EIRSV-EGAVAFQAHQTGHVY-IS--TFHANNVRKMIQRLTGD-PICIQTFMDNLNIALFQLAYYA-----RG----KFLRRVYSVEIEEGYYKEVDGYYT
EIRSV-EGAVAFQAHQTGHVY-LS--TFHANNVRKMIQRLSGE-PINIPPLTFMDNLNIALFQLAYYT-----KG----KFLRRVYVVEIEEGYYKEVDGYYT
EIRSV-EGAVAFQAHQTGHVY-LS--TFHANNVRKMIQRLTGD-PINVPLTFMDNLNIALFQLAYYA-----RG----KFLRRVYSVEIEEGYYKEVDGYYT
EVRGE-EGNADFQAHQTGHVY-MS--TFHAGDVKMIQRLTGD-PINVPITFMDNLNIALFQAAVYV-----GD----DVLRRVTSVQIEEGYSKEVNGGYYT
EIRGA-EGNADFQAHQTGHVY-MS--TFHAGDVKMIQRLTGD-PINVPITFMDNLNIALFQAAVYV-----KG----KFLRRVITVVEIEEGY
EIRGA-EGNADFQAHQTGHVY-MA--TFHAGDIKMIQRLTGD-PINVPITFMDNLNIALFQAAVYV-----KG----KFLRRVITVVEIEEGY
EIRGA-EGNADFQAHQTGHVY-MS--TFHAGDVKMIQRLTGD-PINVPITFMDNLNIALFQAAVYV-----KG----KFLRRVITVVEIEEGY
EIRGA-EGNADFQAHQTGHVY-IS--TFHASSVKMIQRLTGD-PINIPVTFMDNLNIALFQAAVYV-----GG----KFLRRITVVEIEEGY
EIRGA-EGNADFQAHQTGHVY-IS--TFHASSVKMIQRLTGD-PINIPVTFMDNLNIALFQAAVYV-----GG----KFLRRITVVEIEEGY
EIRGV-EGNADFQAHQTGHVY-MS--TFHATVEKLIQRLTGD-PISVPKTFMDNLNIALFQAAVYV-----DG----KLYRRVLSVSEIVGY
EIRGV-EGNADFQAHQTGHVY-MS--TFHATVEKLIQRLTGD-PINIPKTYDNLNIALFQAAVYV-----DG----KLYRRVLSINEVLYG
EIRGV-EGNADFQAHQTGHVY-MS--TFHATVEKLIQRLTGD-PINIPKTYDNLNIALFQAAVYV-----DG----KLYRRVLSINEVLYG
EIRGV-EGNADFQAHQTGHVY-MS--TFHATVEKLIQRLTGD-PINVPKTYDNLNIALFQAAVYV-----GK----GLRRVLSINEIVGYD
EIRGV-EGNADFQAHQTGHVY-MS--TFHATVEKLIQRLTGD-SINVPKTYDNLNIALFQAAVYV-----GK----GLERRVLSINEIVGYDSE
EIRDK-EGNADFQAHQTGHVY-MA--TFHANNIRTLVQRLTGY-PIEVKPYDNLNIALFQALYDK-----KG----NLIRRYVEVDEIIDDPVTD
EIRDK-EGNADFQAHQTGHVY-MA--TFHANNIRTLVQRLTGY-PIEVKPYDNLNIALFQALYDK-----KG----NLIRRYVEVDEIIDDPVTD
EIRGA-EGNADFQAHQTGHVY-MA--TFHANNIRTLVQRLTGY-PIEVKPYDNLNIALFQALYDK-----KG----FPARRYLEIDEIIGYD
EVRGR-EALTLFQAHATGHTT-YS--TLHAGDVSQVITINRLENE-PIGVPRPMLERLQIISIQAAVYV-----GD----RRYRRNMEIAREIVGL
EVRGR-EALTLFQAHATGHTT-YS--TLHAGDVSQVITINRLENE-PIGVPRPMLERLQIISIQAAVYV-----GD----RRYRRNMEIAREIVGL
EVRGK-EALTLFQAHSTGHTT-YS--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----ME----TRVRRKTIVEITGLD
EVRGK-EALTLFQAHSTGHTT-YS--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----ME----TRVRRKTIVEITGLD
EVRGE-EALTLFQAHSTGHTT-YS--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----GD----ERYRRSSVIAIEIEGI
EVRGE-EALTLFQAHSTGHTT-YS--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----DE----KRYRRTRSLVEV
EVRGS-EALTLFQAHSTGHTT-SS--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----EE----KRYRRTRSLVEVLNV
EVRGE-EAKILFQAHITGHLA-LS--TIHAGSPEVIRRLWAE-PHNPVKMLERLQIISIQAAVYV-----KG----RFYRRKTSITEIVEYD
EVRGE-EASTLFRQISYGHPC-MG--TIHAGSPEVIRRLWAE-PHNPVKMLERLQIISIQAAVYV-----GE----HFIRRYNRIVEIYELDPEKGLYTH
EVRGE-EAYVLFQAHGSGG-AT--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----GN----QIYRRVYIARENMGVSRGG
EVRGE-EAYVLFQAHGSGG-LT--TIHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----RIARKYTDVWEITG
EVRGE-EAYVLFQAHGSGG-AT--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----YVGDKI----LLRRRYAIDEIV
EVRGR-EARLLAQAAASGHGS-MT--THAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----GYGG----AYRRRYVSIIEIEG
EVRGS-EALTLFQAHGSGG-FG--TLHANTARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----EG----GSIRRITEVREYVMEEGVQLN
EVRGP-EARLTLFQAHGSGG-MG--TLHANTARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----GS----GSIRRITEVREYVMEEGVQLN
MG--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----KK----GTIRRITEVREYVMEEGVQLN
MG--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----KK----GTIRRYTEVREYVMEEGVQLN
MG--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----KK----GTIRRITEVREYVMEEGVQLN
MG--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----KK----GTIRRITEVREYVMEEGVQLN
ESRGR-EIDHELIDGVLTHGG-AT--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----DFGRRYTALTEVY
EIRGK-EIDELVHARSAGHGS-LA--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----NG----NIRRYTEVREYVMEEGVQLN
EVRGK-EIDELVHARSAGHGS-LT--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----NK----SIRSI
EVRGK-EIDELVHARSAGHGS-LT--TFHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----DR----KHWKKNISIVE
G--TLHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----AG----KIRRLIGIYEV
NTGKGNLS--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----NR--INNERQIAEV
NTGKGNLS--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----NR--INNERQIAEV
NTGKGNLS--TIHANSARETITRLNE-PHNPVKMLERLQIISIQAAVYV-----NK--INNERQIAEV
FLRFGNTGKGNYS--TLHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----ATNTRYIIEI
FLRFGNTGKGNYS--TLHAGDVSQVITINRLENE-PINVPKTYDNLNIALFQALYDK-----ATNTRYIIEI
FTFLRVNNTGKGNLS--TLHANNPEDIKAIITWILGGGLQNP-DNKMLTEIITADIFIQISRNK--KTGTROITDI
RELRGN-EARMEYLNLTGHPGSIT--TFHANNPEDIKAIITWILGGGLQNP-DNKMLTEIITADIFIQISRNK--KTGTROITDI
RELRGG-EAYDFINVAASGHGSIT--SCHAGSCELTFERLALNVLONRQGRQ--PYEIR
RELRGG-EYDFINVAASGHGSIT--SCHAGSCELTFERLALNVLONRQGRQ--PYEIR
RELRGG-EYDFINVAASGHGSIT--SCHAGSCELTFERLALNVLONRQGRQ--PYEIR
RELRGG-EYDFINVAASGHGSIT--SCHAGSCELTFERLALNVLONRQGRQ
EHRDD-ARWYLSVYSGHPGSIS--TIHANNPEDIKAIITWILGGGLQNP-DNKMLTEIITADIFIQISRNK--KTGTROITDI
EHRDD-ARWYLSVYSGHPGSIS--TIHANNPEDIKAIITWILGGGLQNP-DNKMLTEIITADIFIQISRNK--KTGTROITDI

ADPR_RHDER(43-96)-----KIVGQQARVDAVVRATSTAHVATDP-----TRPLANILLVPTGVGKTELVRVRAHEL
 RHD_PSEDE(61-113)-----YLGDQRLRAYDELKYVRAIADP-----RPLFSALFLGPTGVGKTEIARLARRL
 Q811J8_PLAF7(600-652)-----KSTIIGNEIISLSDRYKATGAKDP-----EKPITGTLFLGPTGVGKTELAKTLA
 Q8RR92_ACEXY(371-420)-----NUGJIEALTRAIKLSRAGLRDP-----EKPITGMYLFGPTGVGKTEYAKOLAATL
 151774_BORBU(407-496)-----ITSDDIQKAINELSIKTANNTEEILEKEISETENKYGKQHVSEIKEIKYKGLNDD-----SKPLTSLILGSSGCKTALDEISK
 Q81M28_PLAF7(893-986)-----YVTSVDIENIYKSSSITYIKNNKKEEKELKKEKLNKIIIGQEKYIIDL SKYLFKAITNIKDP-----NKPITGTLTLGSSGCKTALCAQVISKYLF
 Q8X777_EC057(580-673)-----HVDKQIARVIAEHTGVLNRLSQEHSVITDLPKMGDTIKGDLIRASLKHALLTARADLRP-----GRPLGAFLLAGPSGVGKTEYVLQRELLY
 Q8ZB30_YERPE(536-629)-----HVDKSQIARVIAEHTGVLNRLSQEHLAVYVETPSYLGQGIKQETIRIICHLHALLTARADLRP-----GRPNGAFLLVGPSPGVGKTEYVLQRELLY
 Q9KN49_VBRHC(542-633)-----VDAQIARVIAEHTGVPVQDQNTDELAKHTLHLSLGRAIKQEQETIRIERHRALLTARADLRP-----GRPKGAFLLVGPSPGVGKTEYVVLQRELLY
 Q25823_PLAF7(436-514)-----SKTILFKDKMLTKLN-----LTKLENLYNHIIYGNHIFNKIIPFKQNFIGLKNK-----NKPITGSWLLCGPSGIGKTELAKLSKQL
 Q9M107_TOXBO(425-503)-----STMLLFNKANKTFD-----LIALRKNLQKSLFGQPTRISKILSLKRVFTLKKI-----NKPITGSWLLCGPSGIGKTELAKLHKFL
 Q9M116_CAHJE(396-461)-----LENVLAKMTHHKKFEFDONKALNMLKTNLKKKIFGQETIDSLYSLSKSTGFEKMS-----WTPRGVFLFTGSSGCKTELAKLREFL
 Q26304_METH(289-346)-----YVGDQHVRELYVNAIKKARSEVYGL-----SSGGQSKPATFAPGPTGVGKTELAKLREYVL
 Q910B7_PSEDE(321-376)-----VKGDQHVRELYVNAIKKARSEVYGL-----SSGGQSKPATFAPGPTGVGKTELAKLREYVL
 Q9N011_CORGL(377-425)-----LFGDQHIIEPVLTAIKREQLGTFPR-----TKPL-SHVFAGSSGVGKTEHARILS
 CLPX_AGR75(78-137)-----EYVIGQKQKXILSVAYYHMYKRLAARASN-----GDVELAKSNMILVPTGCGKTYLAQTLARI
 CLPX_RHIME(78-137)-----EYVIGQKQKXILSVAYYHMYKRLAARASN-----SDVELAKSNMILVPTGCGKTYLAQTLARI
 CLPX_BRUME(79-135)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDTELAKSNMILVPTGCGKTYLAQTLAR
 Q86015_BRUSU(79-135)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDTELAKSNMILVPTGCGKTYLAQTLAR
 Q917X5_BRUMB(79-135)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDTELAKSNMILVPTGCGKTYLAQTLAR
 CLPX_RHIL0(79-135)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDVELAKSNMILVPTGCGKTYLAQTLAR
 Q95600_AZOBK(77-133)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDVELAKSNMILVPTGCGKTYLAQTLAR
 CLPX_CUCRC(77-133)-----VIGQDKAKRVL SVAYYHMYKRLAARASN-----SDVELAKSNMILVPTGCGKTYLAQTLAR
 Q98K62_BRAJA(77-135)-----VIGQSHAKRVL SVAYYHMYKRLAARASN-----SDVELAKSNMILVPTGCGKTYLAQTLAR
 CLPX_CHLCY(79-139)-----KYVVGQERAKKTAVAYYHMYKRIALNHN-----KHVSYGKSNMILLGPTGSGKTLIAKTLAKIL
 CLPX_CHLPN(75-139)-----KHIDEYVIGQERAKKTAVAYYHMYKRIALNHN-----KQVSYGKSNMILLGPTGSGKTLIAKTLAKIL
 CLPX_CHLMU(79-138)-----YVVGQERAKKTISVAYYHMYKRIALHMD-----KQVSYGKSNMILLGPTGSGKTLIAKTLAKIL
 CLPX_CHLTR(80-138)-----VIGQERAKKTISVAYYHMYKRIALHMD-----KQVSYGKSNMILLGPTGSGKTLIAKTLAKIL
 CLPX_MYXXA(79-137)-----VIGQERAKKTISVAYYHMYKRIALHMD-----EDVELAKSNMILLGPTGSGKTLIAQTLARI
 CLPX_AHASP(92-158)-----HYVIGQERAKKTISVAYYHMYKRIALHMD-----GKNGDDAVELAKSNMILLGPTGCGKTYLAQTLAKIL
 CLPX_SVY3(92-158)-----HYVIGQERAKKTISVAYYHMYKRIALHMD-----IDPDD-AYVELAKSNMILLGPTGCGKTYLAQTLAKIL
 Q80111_SVWEL(96-154)-----KHVYIGQERAKKTISVAYYHMYKRIALHMD-----GDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_ABUME(73-134)-----VIGQERAKKTISVAYYHMYKRIALHMD-----LDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_RICCN(71-133)-----NDYVVGQDQAKKILAVAYYHMYKRIALHMD-----LDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_RICCP(71-133)-----NDYVVGQDQAKKILAVAYYHMYKRIALHMD-----LDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q82Y56_NITEU(75-138)-----QYVIGQESAKKILSVAYYHMYKRIALHMD-----GDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_STAHM(72-134)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_STAHM(72-134)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q8CNY5_STAP(72-134)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q83M7_ENTFA(72-136)-----NEVYIGQERAKKTISVAYYHMYKRIALHMD-----QDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_LACLH(70-133)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDTELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q86J6_LICL(70-133)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDTELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q9L682_BBBB(70-133)-----NEVYIGQEKAKKSLAVAYYHMYKRIALHMD-----EDTELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_STRPY(72-135)-----NDYVVGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q8D10_STRM5(72-134)-----NDYVVGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q8E4L8_STRM3(72-134)-----NDYVVGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q8D010_STRM1(75-135)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----QDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 CLPX_STRPN(75-136)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----SEDVVELAKSNMILLGPTGSGKTYLAQTLAKIL
 Q83G50_TROH(80-142)-----EYVIGQKAKRDL SVAYYHMYKRLVSTKSESE-----NEVELAKSNMILLGPTGCGKTYLAQTLARIL
 Q83M16_TROH8(80-142)-----EYVIGQKAKRDL SVAYYHMYKRLVSTKSESE-----NEVELAKSNMILLGPTGCGKTYLAQTLARIL
 Q8KF3_CHLTE(93-155)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVVIEKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_METHA(75-136)-----NDYVIGQERAKKTISVAYYHMYKRIALHMD-----YVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_METHB(75-136)-----NDYVIGQERAKKTISVAYYHMYKRIALHMD-----YVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BACDH(73-133)-----DYVIGDQAKKILAVAYYHMYKRIALHMD-----EEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BACSH(72-133)-----NEVYIGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q817Q2_BACRC(73-133)-----EYVIGDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q81L89_BACRA(73-133)-----EYVIGDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_LISIN(73-134)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_LISNO(73-134)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_CLOPE(75-135)-----QYVVGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_THETN(74-132)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q8CX80_OCEIH(73-132)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_PSEDE(79-137)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q87Y77_PSESH(77-136)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q88K19_PSEPK(92-153)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_XANNC(78-138)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DDVVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_XANCP(78-138)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DEVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_XYLF7(78-138)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DDTELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_XYLF7(78-138)-----QYVIGQERAKKTISVAYYHMYKRIALHMD-----DDTELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_EC01(75-135)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----NGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_SALTY(76-136)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----NGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_SALTY(76-136)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----NGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_YEREM(76-136)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----NGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_YERPE(76-136)-----DYVIGQERAKKTISVAYYHMYKRIALHMD-----NGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_VTBCH(79-138)-----VIGQERAKKTISVAYYHMYKRIALHMD-----EGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_VTBPA(77-138)-----DYVIGDQAKKILAVAYYHMYKRIALHMD-----EGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_VBYU(79-138)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----DGVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q8EG18_SHEON(77-137)-----DYVIGDQAKKILAVAYYHMYKRIALHMD-----DGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_WIGBR(76-137)-----NSYVIGQERAKKTISVAYYHMYKRIALHMD-----NKVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_HAEIN(76-134)-----VIGDQYAKKILAVAYYHMYKRIALHMD-----NDVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_PASHU(72-132)-----DYVIGDQAKKILAVAYYHMYKRIALHMD-----DYVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q8D3L_C0XBU(72-132)-----EYVIGQERAKKTISVAYYHMYKRIALHMD-----DSVETAKSNMILLGPTGSGKTYLAQTLARIL
 Q9L626_EIRCH(70-130)-----EYVIGQERAKKTISVAYYHMYKRIALHMD-----DSVETAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BUCRI(81-141)-----YVIGDQYAKKILAVAYYHMYKRIALHMD-----DSVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BUCAP(78-138)-----YVIGDQYAKKILAVAYYHMYKRIALHMD-----DNVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BUCBP(78-138)-----YVIGDQYAKKILAVAYYHMYKRIALHMD-----DNVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_BORBU(74-131)-----YVIGDQYAKKILAVAYYHMYKRIALHMD-----DNVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_FUSNN(85-146)-----EYVIGQERAKKTISVAYYHMYKRIALHMD-----DGVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_CAHJE(84-143)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----DDTELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_CLOB(74-133)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----DDTELAKSNMILLGPTGSGKTYLAQTLARIL
 Q891J8_CLOTE(76-134)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----DDVELAKSNMILLGPTGSGKTYLAQTLARIL
 Q8F353_LFPIN(80-136)-----VIGQDQAKKILAVAYYHMYKRIALHMD-----SDVETAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_THETN(80-137)-----KYVIGQERAKKTISVAYYHMYKRIALHMD-----DSVETAKSNMILLGPTGSGKTYLAQTLARIL
 Q8M128_BACTN(76-136)-----YVIGDQYAKKILAVAYYHMYKRIALHMD-----DDVETAKSNMILLGPTGSGKTYLAQTLARIL
 Q9RLJ2_OENOE(67-129)-----NEVYIGQERAKKTISVAYYHMYKRIALHMD-----SDVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_TREPA(73-131)-----QYVIGDQAKKILAVAYYHMYKRIALHMD-----DSVETAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_AZ0VI(70-136)-----EYVIGQERAKKTISVAYYHMYKRIALHMD-----EQVELAKSNMILLGPTGSGKTYLAQTLARIL
 CLPX_HELPJ(98-172)-----YVIGQERAKKTISVAYYHMYKRIALHMD-----SFKKELKKQDQSDLELHLEEVELAKSNMILLGPTGSGKTYLAQTLARIL

