

1	11	21	31	41	50	
MS-E-EWCAR	CRS-HVGDYK	SLASLAFTGL	DGNLYGNSDS	TN-----		39 <i>F. hepatica</i> _D915_008168
MS-D-AWSQQ	CQQ-YLAKYP	ALKCLAITSL	DGTIYGNSDA	TE-----		39 <i>C. sinensis</i> _GAA56606.1
MS-D-AWTQQ	CQQ-YLTKYP	ALKCLAITSL	DGTIYGNSDA	TE-----		39 <i>O. viverrini</i> _XP_009173283.1
MSAD-SWDNH	CVT-YVANNK	CLKNLCMTAI	DGSHLGTSNP	D-----		39 <i>S. japonicum</i> _CAX7805.1
MA---GWNAY	IDN-LMADGT	CQDAIVGYK	DSPSVWAAVP	GK-----		38 <i>H. sapiens</i> _P07737
MA---GWNAY	IDN-LMADGT	CQDAIVGYK	DSPSVWAAVP	GK-----		38 <i>B. taurus</i> _P02584
M---SWQAY	TDN-LIGTGK	VDKAVIYSRA	GDAVWATSGG	LS-----		37 <i>S. cerevisiae</i> _P07274
MAEYESWDSY	LNDRLLATNQ	VSGAGLASEE	DGVVYACVAQ	GEESDPNFDK		50 <i>P. falciparum</i> _P86294
MS---DWDPV	VKEWLVDTRY	CCAGGIANAE	DGVVFAAAAD	DD-----DG		41 <i>T. gondii</i> _Q58NA1
MS---DWDPV	VKEWLVDTRY	CCAGGIANAE	DGVVFAAAAD	DD-----DG		41 <i>N. caninum</i> _F0V772
MA---DWPVT	IKQLALADNA	CYCGGIANAE	DGELFSAADI	DH-----DD		41 <i>B. bovis</i> _Q307P5
#			#			

-----	-----	-----FPVT	VEFAKSAIAA	FSGASPSSLT		63 <i>F. hepatica</i> _D915_008168
-----	-----	-----FPLD	QAFMKQVFAS	MKGDPASSIP		63 <i>C. sinensis</i> _GAA56606.1
-----	-----	-----FPLD	QAFMKQVFAS	MKGDPASSIP		63 <i>O. viverrini</i> _XP_009173283.1
-----	-----	-----FRIP	PELILQLKSI	LDGGLDTSIF		63 <i>S. japonicum</i> _CAX7805.1
-----	-----	-----TFVNITPAE	VGVLVGKDR-	-SSFYVNGLT		65 <i>H. sapiens</i> _P07737
-----	-----	-----TFVNITPAE	VGILVGKDR-	-SSFYVNGLT		65 <i>B. taurus</i> _P02584
-----	-----	-----LQPNE	IGEIVQGFND	PAGLQSNGLH		62 <i>S. cerevisiae</i> _P07274
--WSLFYKED	YDIEV--EDN	GTKTTKTINE	GQTILVVFN-	-EGYAPDGWV		94 <i>P. falciparum</i> _P86294
--WSKLYKDD	HEEDTIGEDG	NACGKVSINE	ASTIKAAVD-	-DGSAPNGWV		87 <i>T. gondii</i> _Q58NA1
--WSKLYKED	HEEDTIGEDG	NVNGKVTVNE	ASTIKAAVD-	-DGSAPNGWV		87 <i>N. caninum</i> _F0V772
LCWDSVYRDP	YEFEAT-DEN	GQPIKHQITE	KATIMEVFE-	-KRRSSIGIF		88 <i>B. bovis</i> _Q307P5

LNGEKFIVLQ	KNDECLIGKC	GRKT-----	-----LF	VYPCKSSCIF		99 <i>F. hepatica</i> _D915_008168
LAGEKYMCLR	SSPECWLGRK	EKKA-----	-----IF	VYPCKTIAVV		99 <i>C. sinensis</i> _GAA56606.1
LAGEKYMCLR	SSPDCWLGRK	EKKA-----	-----IF	VYPCRTIAVV		99 <i>O. viverrini</i> _XP_009173283.1
FMGEKYIVLQ	HDSSCLVSRK	GKKS-----	-----LI	FYATRKCILV		99 <i>S. japonicum</i> _CAX7805.1
LGGQKCSVIR	DSL---LQDG	EFSMDLRTKS	TGGAPTFNVT	VTKTDKTLVL		112 <i>H. sapiens</i> _P07737
LGGQKCSVIR	DSL---LQDG	EFTMDLRTKS	TGGAPTFNIT	VTMTAKTLVL		112 <i>B. taurus</i> _P02584
IQQQKFMLLR	ADDRSIYGRH	DAEG-----	-----VV	CVRTKQTVII		98 <i>S. cerevisiae</i> _P07274
LGGTKYQFIN	IERDLEFEGY	NFDVATCAKL	KGGLH---LV	KVPGGNILVV		141 <i>P. falciparum</i> _P86294
IGGQKYKVVR	PEKGFYNDK	TFDITMCARS	KGGAH---LI	KTPNGSIVIA		134 <i>T. gondii</i> _Q58NA1
IGGQKYKVVR	PEKGFYNDK	TFDITMCARS	KGGAH---LI	KTPNGSIVIA		134 <i>N. caninum</i> _F0V772
IGGNKYTFAN	YDDDCPVGDY	TFKCVSAAKN	KGGAH---LV	KTPGGYIVIC		135 <i>B. bovis</i> _Q307P5
Δ		Δ Δ				

GLSVDTDESM	NATNGNAACA	MLSEEYKKLK	Y			130 <i>F. hepatica</i> _D915_008168
GMSQDTE SAN	NTSNGSDSVA	RLAELYMKS N	Y			130 <i>C. sinensis</i> _GAA56606.1
GLSQDTE SAN	NTSNGSDSVA	RLAELYMKS N	Y			130 <i>O. viverrini</i> _XP_009173283.1
GQTVDDDQ-N	NCTQGNFAIS	RMRDHYERM G	Y			129 <i>S. japonicum</i> _CAX7805.1
LMGKEGVH--	-GGLINKKCY	EMASHLRRSQ	Y			140 <i>H. sapiens</i> _P07737
LMGKEGVH--	-GGMINKKCY	EMASHLRRSQ	Y			140 <i>B. taurus</i> _P02584
AHYPTVQ--	-AGEATKIVE	QLADYLIGVQ	Y			126 <i>S. cerevisiae</i> _P07274
LYDEEKEQ--	DRGNSKIAAL	TFAKELAESS	Q			170 <i>P. falciparum</i> _P86294
LYDEEKEQ--	DKGNSRTSAL	AFAEYLHQSG	Y			163 <i>T. gondii</i> _Q58NA1
LYDEEKEQ--	DKGNSRTSAL	AFAEYLHQSG	Y			163 <i>N. caninum</i> _F0V772
VFDENRGQ--	NKTASRMAAF	ALAEYMAANG	Y			164 <i>B. bovis</i> _Q307P5
	Δ	# Δ #				