

Fig. S2

Giardia		MLPALITPLVRSITKNGIKITDAAVSSLRNLIK----PSEFLRVNVMTSGCAGLTYK	53			
Trichomonas		MLSQFFSNFAQKKAASFMTPAAIKQIKELLKTD--FENKMLRITLKSGGCAGFQYD	54			
Trypanosoma		MLRRSYLLFCVPHLSAVYGRSFTVSSRVVHRINEKNGEEGFQNDQRFRLRLAVDSGGCHGYKYH	63			
Saccharomyces	MQAKLLFTRLNFRRPSTTLRQFPLTCLFHSKAFYSDLVTKEPLITPKRI INKTPGLNLSISERASNRLAEIYRNS---	KENLRISVESGGCHGFQYN	95			
Homo	MAAAWGSSSLTAATQRAVTFWPRGRLLTASLGPQARREASSSSPEAGEGQIRLTDSCVQRLLLEITE----	GSEFLRLQVEGGGCSGFQYK	85			
Arabidopsis		MKASQILAAAAARVGPALRKQVLTTLTDEAASRVHLLQQRQKP-F-LRLGVKARGCNGLSYT	60			
Chlamydomonas		MKSTLGLLAEALKETARSPRMRKAAVELTEAAAGRIKELLNKRHKE-Y-LKLGVKTRGCSGMSYT	63			
Rickettsia		MKNVISLTDSSAAKQIKLLIEKRAKPTFGIRVGVKSGGCAGQTYT	44			
Escherichia		MSITLSDSAAARVNTFLANRKGK-FGLRLGVRTSGCSGMAYV	41			
Mycobacterium		MAVQNELSAKTHGVILTVAATKAKSLLDQEGRDDLALRIAVQPGGCAGLRYN	53			
Giardia	FAVDTD---RRKDDD----VTKKGVE-----LRVDNKALAYVKGSTIDFISEPFRQYFVLKD-NPQSSGS	CS	CGESFEIPGLDIVPTPCH	131		
Trichomonas	FSFDSA---ARKGDH---LFQQDGAA-----VVLDDKALLYLRGAELDYSSDIFSSYFKVNI	PLESELHSC	CGKSVGTDET	VGKHKCSH	133	
Trypanosoma	FSFEENSALVPEEDV---VVAETDVLPGAEGRSGVEPPRVVDRHSLTKLQAAVIDFHSELKGA	AFVVG-NELVDES	CAC	AMSFSIKKRQPQK	155	
Saccharomyces	LTLEPATKPKDINKDVKDFSDDLLDDDDSKDIIYVLPEDKGRVIIDSKSLNILLNNTTLTYT	NELIGSSFKIIN--	GSLKSS	CG	GSSFDIEN	185
Homo	FSLDTV---INPDDR---VFEQGGAR-----VVVDSDSLAFVKGAVDFSQELIRSS	FQVLN-NPQAQQG	CS	CGSSFSIKL	154	
Arabidopsis	LNYADE---KGKFDE---LVEEKGVR-----ILVEPKALMHVIGTKMDFVDDKLRSE	FVFI--NPNSQG	CG	GESFMTTST	SSAKQSAS	137
Chlamydomonas	LNYADN---KGKFDE---VVEDKGVR-----IIIEPQALMHVLGTMKDYVKDDL	RQEFV--NPNAKGT	CG	GESFTT	129	
Rickettsia	VEYADS---KNQFDE---VVEEKGVR-----ILIDPKALMYILGSEMDYVETKPKSQ	FTFT--NPNEKAS	CG	GKSFV	110	
Escherichia	LEFVDE---PTPEDI---VFEDKGVK-----VVVDGKSLQFLDGTQLDFVKEGL	NEGFKFT--NPNVKDE	CG	GESFHV	107	
Mycobacterium	LFFDDR---TLDGDL---TAEFGGVT-----LTVDRMSAPYVEGASIDFVDTIEKQ	GFTID--NPNANGS	CAC	GDSFN	118	