

Fig. S8

<i>G. intestinalis</i>	-----MNTLF SVSPMTMPFYRAYKAKQGSFFVVSSTFD ----LPILVKISSTASQDYIVYPPIFVLAPHTAQE	64
<i>D. simulans</i>	-----MELLSVGPQVLTFFYPPYDDRQRRMVTLLNPTDRRVLFKLLQVTSNAWLNYTVNPNTGRIAPYSSE	67
<i>E. cuniculi</i>	-----MLDIKIVPQTTIRVK----RNKRSSMFIVQNNSM---ESVGYKVKTTKPRDYIVRPNMGLIVPMQHA	61
<i>H. sapiens</i>	-MASASG AMAKHEQ ILVLDPPDTLKFKGPFDTDVVTTNLKLRNPSD---RKVCFKVKTTAPRRYCVRPNSGIIDPGSTVT	75
<i>C. briggsae</i>	-----MSEKHSLLQVSPHRELVFTGPFSDVVTAHMTLKNITA---NPVCFKVKTTAPKQYCVRPNSGLLKNGESKQ	68
<i>S. pombe</i>	-----MALECDSTIVFPRPLTRLVKCDLELRNTAP----YPIGFKVKTTAPKQYCVRPNGGRIEANSAVS	61
<i>P. falciparum</i>	-----MKLLRVTP EKNI EFLVHFQAVTQVVKLENVSD---KKVAFKIKTTAPNNYLVRPSFGLISVRETIE	64
<i>T. brucei</i>	-----MRSKTAAPS VIVT PDRLHMTAKRKEECLVQITNIS-FEKVLF RMLTTT PERYL VKPTKGV IEPSASAS	67
<i>P. infestans</i>	MASSGVDVALA PNSSVILEPADSLSFHLQ PQTAPQAVLTIRNVADD---RQIAFKVKTT RPLRYLVRPNQGLLGP NGSAS	77
<i>G. intestinalis</i>	ICVSLTL-----KEELKPHEDHRYSVDAFFLEQGAYASLSTDASPO-PTALRIYWN SHYNDACRKGRLFTQKFTVS	134
<i>D. simulans</i>	IIISLKS-----FDFNTDERYNHFFVIKSMFEPQDHKN-----GQTILAI FR ----DVSRRDISNTLLVR	124
<i>E. cuniculi</i>	VEVTLSE-----DTVPDSSHKFLIEIYRFDWRRS-----LSDFKQHLK-----SSSPKPCWTSRIGIL	114
<i>H. sapiens</i>	VSVMLQP-----FDYDPNEKSKHKFMVQTI FAPPN -----TSDMEAVWK-----EAKPDEL MDSKLR CV	129
<i>C. briggsae</i>	ITVMLQP-----LEGIPTDAGRHKFMVQSCVAPAED-----LQDLES IWK -----IVDPAELTY SKLMVT	123
<i>S. pombe</i>	VEVILQP-----LDHEPAPGTKCRDKFLVQSTELKPELQ G -----MDIADI WT -----QVSKAN ISERKIR CV	119
<i>P. falciparum</i>	IQIILQP-----LSDKDNISNDKFQVQCLNVDDN-----TTVDKQ FWI -----TVNKNE IQDHKL IVV	117
<i>T. brucei</i>	VLITLSP----TTARGEDVSDVNATDDFRLEYCLQEPEDCIEPR-----CTNVPAL IKE --KKQD RRLVH SKTVRCT	134
<i>P. infestans</i>	IMVILQ QKDCDELLRLDPAERQLANDKFLVQ SIYVDDSFYELVKT KSTKEMADELTMWA -----RTDK RALS NK KLRCR	152
<i>G. intestinalis</i>	FVDG-----APPAAVQKLARHVPAEILD SKDLD -----TELGN ISHKKARY	175
<i>D. simulans</i>	LEA-----QPFPLDCHGLDSL CDFSK -----	145
<i>E. cuniculi</i>	YEE-----	117
<i>H. sapiens</i>	FEM-----PNEND-KLGITPPGNAPT VTSMSSINNTVATPAS YHTKDDPRGLSVLKQEKQKNDMEPSKAVPLN	196
<i>C. briggsae</i>	FVD-----KKN-----PASGDDNKTFTV NGNEETFASAG -----QAQELGSS SFSAPS	165
<i>S. pombe</i>	YSEGPSTANAHANAHQPAQTTTT SIPTSATDN YTTVNGNVNQSYSGIDGTALPSTHANPVAAPSTATTQHTQLPKTSA	199
<i>P. falciparum</i>	LND-----ENNSKLNHSY IPSNNVPLSEMNNKNIHNMGYVD -----NNNINQDD PNL	164
<i>T. brucei</i>	VDLT-----AVNGKWGEVRLRD-----	151
<i>P. infestans</i>	FVQ-----DGEDTGRPASPPSPQRPSSTNVSPAKTTATSESRFQTRQSDEAREEV TTPMQLSSALLQDDKPKV	220
<i>G. intestinalis</i>	IAEKAS----- LLHSIQLOQGGKIDLLKNTISRDEAEILRFNREIDELQRR -----	220
<i>D. simulans</i>	-----SSVNT ELQLRQLYENCANRLEEAPAKQNTPSGSRHLS -----	182
<i>E. cuniculi</i>	-----EEISKEVVE CSED RG-----	132
<i>H. sapiens</i>	ASKQDG-----PMPKP-HSVSLNDTETR KLMEECKRLQ GEMMKLSEENRHLRDEGL--RLRKV	251
<i>C. briggsae</i>	-SQQDG-----TVASLRKSLKST IDEKEELQKKVHGLEQEIEVMLKKNRKLQ	212
<i>S. pombe</i>	VSHQKP-HEAPSTAVKAPTATVAENEPYKPKQSVPTT TSPNNENNALRSTANVINNTRQSTATSPSMFAGNSGNQIGLAR	278
<i>P. falciparum</i>	ADGLKG----- GLPGMQRYHELLNYCVFVDKQKA ALEKENESLKN-----	205
<i>T. brucei</i>	-----DGNGTGRGSKGK NVI SAVLN SRKREEV PGQVKASLAGQKQ-----	191
<i>P. infestans</i>	AESREGGKDIQ EVAALRKKYDELVAFTVQLTAQRDVLMSDLDKTRQLLQKANTDAQRVKKI SEESTGLRHRKTGGASGVS	300

<i>G. intestinalis</i>	-LKEI	GNHDTLSKYIIIGTRLELRVVHYILAI	FV	CLIC	GRLLHKF--	263
<i>D. simulans</i>	-----	KIVIIIGSLTLVVLTAFVQRRLMFET	FMDTQYADIHFQ---			219
<i>E. cuniculi</i>	-----	AAVLLVEMYILLNILYLFYRFFE	-----			155
<i>H. sapiens</i>	AHSDKPGSTSTASFR	---DNVTSPLPSLLVVIAAIFI	GFFLCKFIL			294
<i>C. briggsae</i>	-----	NQSDGALV	---EGAFPTLQVVLIAVAALLIGLIFGHLF-			247
<i>S. pombe</i>		VSSSFGRPTSGAKVVPQIHNTVTVQ	TAFLLAII	CFLIGLLF	----	319
<i>P. falciparum</i>	-QLKAYNSNSNKFLI	---DNKLIPIIIIVMLAIITKYM	GYW	-----		241
<i>T. brucei</i>	-----	AGGNSLMWIIIGGAATLFCWWW	FAY---			216
<i>P. infestans</i>		GTEDSQAITSKGPKD	---QGAFGPLHLLVCAIIFFLV	CRY	----	338