Fig. S7

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Giardia Pam16   MLLPKAGVEIAKGLTAGVR SSLSVLA--D NIVESSLALA DIWHHVRAEV RSL---AKAP NWAKVRIAPM  64
Trichomonas             MVIVELAGLVI SSTKVVC--S TFINGFKHAA AA-NAPNGNA FQK---FAGA VFGIQFQTRM  55
Saccharomyces           MAHRAFIQVII TGTQVFG--K AFAEAYRQAA SQ---SVKQG ATNASRR--- GTGKGEYGGI  53
Neurospora              MAYRLITQVVV VGSRVLG--R AFAEAYKQAA AS-SQYQRAQ QKNGNAA--- TGRASLTSGM  55
Pediculus               MAK-YVAQIII VGAQVIG--K AFARAVRQEL NA-SREAARR -GGGGKTGAK RAQENIRSGI  56
Schistosoma             MAK-YFVQLVI SGARVLG--R AFAQAVKEEY AS-SQRVADA RRNSTSSGSE QNTYVQNAGI  57
Homo                    MAK-YLAQIIV MGVQVVG--R AFARALRQEF AA-SRAAADA RGR---AGHR SAAASNLSGL  54
Mus                     MAK-YLAQIIV MGVQVVG--R AFARALRQEF AA-SQAAADA RGR---AGHQ SAAASNLSGL  54
Xenopus                 MAK-YLAQIVV MGMQVVG--R AFTRALRQEF AA-SKVAAEA RGR---AGTE SAAVSSLSGI  54
Giardia Pam18           MLR-VLSENRF PLSLVAGVVA GFYSYLRKDP RV-IVTSPP- RSW----K-- --GGEISSPL  50

Giardia Pam16   PLSQASQILD IESD-----T SLDKIRAQRD KL----LGQL SLSPFLQVKV NEAYERIKKS KCGRYAHRRE  125
Trichomonas     MPDEARQILG FEQKD---KL DIKSIKEHLD RMIKLNDLEK GGSPYLNERF IAASHVLAK              111
Saccharomyces   TLDESCKILN IEESKG--DL NMDKINNRFN YLFEVNDKEK GGSFYLQSKV YRAAERLKWE LAQREKNAKA  121
Neurospora      TLDEACKILN VNKPADGTAA NMEEVMERFK RLFDANDPEK GGSFYLQSKV VRARERLEAE IKPKMEEKQA  125
Pediculus       TLEEAQQILN VSKM------ DPVEIKEKYE HLFNANDKTK GGSFYLQSKV VRAKERLEQE LENMKSEKHK  120
Schistosoma     SLDEAKQILN VKDIH----- DSSTLNKQFE HLFSSNSKDK GGSFYLQSKV FRAKERIDEE LQFEKSERRR  122
Homo            SLQEAQQILN VSKL------ SPEEVQKNYE HLFKVNDKSV GGSFYLQSKV VRAKERLDEE LKIQAQEDRE  118
Mus             SLQEAQQILN VSKL------ SPEEVQKNYE HLFKVNDKSV GGSFYLQSKV VRAKERLDEE LRIQAQEDRE  118
Xenopus         SLQEAQQILN VSKL------ TPEEIQKNYE HLFKVNDKGL GGSFYLQSKV VRAKERLDQE MEIQSKTHKP  118
Giardia Pam18   SSHEARLVLN TSRFS----- TDAEVTKNYR SLLAKAHPDR GGSKYIAAII GEAHEKLRNR C           106

Giardia Pam16   SRRERCRESK IQILNKNI           143
Trichomonas                                  111
Saccharomyces   KAGDASTAKP PPNSTNSSGA DNSASSNQ 149
Neurospora      EEEVKEGW NPKIYKDR             141
Pediculus       MSQQDRKQN EKCFNIRF            137
Schistosoma     NPGSENRQSRT                   133
Homo            KGQMPHT                       125
Mus             KGQKPKT                       125
Xenopus         KEETTQT                       125
Giardia Pam18                                 106
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