Q06031 DN1566_c0_g1 DN297_c0_g1	1 70 MHAPPTATRRSGPRRTHGIMARLVRLAAGVLVVTLVIGALTALSADDAKTHPHKVCIHDELQQSLLDSVA
Q06031 DN1566_c0_g1 DN297_c0_g1	71 140 QQGLAPQRVSRVGLPYVASATAAPAAQVGGVDFALAGDSAPDVTRSAEWGELRITVSAEELTDPAYHCAT
Q06031 DN1566_c0_g1 DN297_c0_g1	141 210 VGQVISNHIDDYVTCTADDIMTAEKLDILMNYLIPEALQMHKDRLQVQQVQGTWKVARMTSYCGRFKVPE
Q06031 DN1566_c0_g1 DN297_c0_g1	211 280 EHFTTGLSNTDFVLYVASVPTSPGVLAWANTCQVFSNDQPAVGVINIPAATITERYDHLMVHAVTHEIAH VIHELMH
Q06031 DN1566_c0_g1 DN297_c0_g1	281 350 SLGFSNAFFTNTGIGQFVTG-VRGNPDTVPVINSPTVVAKAREHYGCDDVTYVELEDAGGSGTMGSHWKI SLGFSSMYFGNWGDYRIPTARIARRGMTVTVLKGAAVLREGKEHFGCPSFDGIELENEGGGITL <mark>GSHLER</mark> EASGRSKS <mark>GSHLER</mark>
Q06031 DN1566_c0_g1 DN297_c0_g1	351 420 RNAQDELMAGISGVAYYTSLTLSAFEDLGYYKANYSNA-ETMKWGKDVGCAFLTGKCVVDNVTQFPSM RLMMQDYMTGVGG RLMMQDYMTGVGGPKL-SRLTLAVFEDLGFYTANYSAADDTTTFGRNAGCGFFRKKCNTVAGGAGTY
Q06031 DN1566_c0_g1 DN297_c0_g1	421 490 YCDKDENVYRCHTARLNLGSCEVTDYTFDLPDYLQYFT-VPSVGGSADYYDYCPYIVRSPIGSCTQAASS FCFQRGRICNGARTGAGYCSLVNFTRALPEHFQYIPGQPTMGGASPLMDFCPVISVSSNRRCTSTTFQ
Q06031 DN1566_c0_g1 DN297_c0_g1	491 560 ASPFVSAF-NTFSMASRCIDGTFTPKSTGGATVTAHLGMCTNVACNTADKTYSIQVYGNGAYIPCTP PSFWDKTLGHYFGTGGRCLETVDYAKKPYTAWSSDVTATCTQTRCRGAVLDVKLPV-ADAEWIECPP
Q06031 DN1566_c0_g1 DN297_c0_g1	561 630 GATISLDTVSDAFEAGGNITCPPYLEVCQSNVKGAMDYESMTNSGSGSSRPAPVEPSGSGSGSSAATTAP GSNVTHPDLNGNIICPPAGPVC
Q06031 DN1566_c0_g1 DN297_c0_g1	631 662 SPTRDGSAAADRIAPRTAAVALLALAVAAACV

Query	Subject	Description	Species	Subject_From	Subject_To
TRINITY_DN1566_c0_g1	Q06031	Leishmanolysin homolog	Crithidia fasciculata	274	362
TRINITY_DN297_c0_g1	Q06031	Leishmanolysin homolog	Crithidia fasciculata	336	579

Fig. S1. Multiple alignment of amino acid sequences of leishmanolysin homologs that were identified from *Crithidia fasciculata* (Q06031) and *Azumiobodo hoyamushi* (DN1566_c0_g1 and DN297_c0_g1). The amino acid sequences translated from two *A. hoyamushi* genes were partially overlapped, which is shown in red character

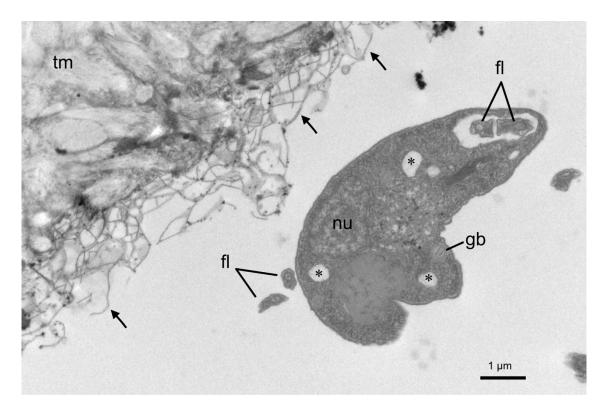


Fig. S2. Azumiobodo hoyamushi cell near the cut surface of the tunic matrix covered with electron dense fibers (arrows). Asterisks indicate kinetoplasts. fl: flagella; gb: globular body; nu: nucleus; tm: tunic matrix