

Supplementary Data 1

FASTA sequences of Target proteins of *Trichomonas foetus*

>OHS97275.1 GP -63 Like protein Clan MA, family M8 [Tritrichomonas foetus]
MIFAIIQIVSATNCFHDSLQSQINIRKLQFPPDPGLMDEDEIIEREPIRIVFDISSLTSYDPSVCRTIE QAVSWGGREEICTKDDITPEKISSLNTLNNVNNYLSSVLNVTRLKGFDISNITDITVLERHVDCTF ITVTRPFGTHRSTSLASAFYEITDPVNGRPVQGAIJVNAANIPAEPQNESSFDRIYFTLLHELVHALG VSYRAIPSWIDPNTNQPYEHLPIEYSATKYPHKVFRILQTKNVHEFAAERFGVEYFAPDVPAGLEEDG GGVGTGFSHAEARVYIDDMFVGLTIGQNRSKLVFALLADTGWYDVSYEKAESAWGLGESLNLSPLTTF PNTAPQHAFPKHYMCDPSIDTDVCTYDFLGIALCKGVVKDCDLPSEDDQKFCMRNFTDPLRIGLRGR SEVHDYLLYKAPYSNSRCSDISRNTDSAYKNGELYGGESLCFMSTLLRSSFSFYTYHGACHRSICDENG SLIVYVDGIGKICEKANQKLSFGKGEIICPEPSYACGIRKFYGYIVGPTVPSPNPPTIWEGFSLDSN QTIIIAVFASVTGLIIFMAVVMQVRACKAADAAKEAEEGVGPSMEKDDPYEAVKPPLVL
>OHT02241.1 Adhesin [Tritrichomonas foetus]
MREVIFPRKILPFLKVLKNYFCGEGGKWIVSKFVPDFNYGLNSAVVTVGSTSJKTLNNCSINTNSTGSN AVFATDSGTFEITNIRIKTYKDSSRGLDTSYSGNITAYGININTEGEHCAPIATDRGEWVTVFGNSNNQ MNLLKSSGEGPCVYSTGNITVVVDVIGEATGSEAAVVEGKNSINTNCELVGYVKHGIMLYQSMSMDADI GTALFYSYHSSITTKSEGPMIYITNTAKAYFYNSSFTTSNILLKAAADQWGDEGSNGGCEMLIENMS TTGDVIAAADDNSNLTTVVASNWGNVEGNVLVIKKDSEDDGEDIVPTDKSQTLSRNAIIGIGVAAGVA VIALIAIIVYFVIKKKRNQSPGFNKI
>OHS95735.1 Hypothetical protein TRFO_10391 [Tritrichomonas foetus]
MGKEVSELTRFQHQSGGFYDNVREANARDTFHAIWISSIYGAQFYIDTQRCCFRWFTTLRNRRDGAGLVPG SKSSVFATYCHFNLAIIISPDAIDVARIIEFLKSCYDEPGLFRDSPSEPSIEATYYAYELLSRFRNAE ITWLTSYNLQMYINDHLLNDHFEDGVSLMKAQLWAGSIAKFVSLTPYHRISEFIVNHLNQAIDNKLD NEDAAAAARILKLFGEAIPQLASFKSSGSLADLFYINQILVATGEVTKFFEVHVHSLSGDNHLIDFE KDGTYGQIARPALAITALGRFINTMLQVNVTTHIGDEAPTTELKIDYQTGLFNSQRISINKLGQMGI DVVAWLATEFGTPVITKSVSVRSLPIDVTSEAWLSADEPIPVGGEIVPGVNRVQLNGKLDDIIDKLE DTTAATFQVTDAGAVLYHKFEDFKGQLEFTWQLPSLALPAGDLHVTVEIGDKVNGIHTHKEFTYKVST MAASGVEVPANLRLSDVLRVKMVPALIVNEAPVPFTNEKFFEGDLRDAYEAFYPQTASEAQRYTMRVKV GDVVVKTVEGEVSVDDQNQLSVEFESVNENLDFTGFSIDFLFNAEGSEPVLLDLEKEIFVQVSSKVV EAQPLVSGAVDYGSKITSEFRLKDEDGSNLYLEAGRGRAYPVIAILRASDRTVLLLEKKAKILSDKYKAKLTVT AAVESGNVIVAILRKGDDLVPVQTAQGSPFESAFTVSGQIQFDAQVVEARKYVVVDFTTYKGKALRG AFMCRVVDAQGNAVAELPLAQMKKGSRSLWESGDAKGEYKLELRRSATEGAPIFVKYSISVESPILSIIH HLPVEGITLAVAFAIFVWSIRVKQIQSTR
>OHT11175.1 Immuno-dominant variable surface antigen-like protein [Tritrichomonas foetus]
MSLILLWFTCLIKSEGTKPEYlhsifgApGKEEVVIDYVDGIEILERNLPKPKLKHIREAHYTDPIEDND YPWPGBHDFNGTATWAALNNETNKVRAEFSTNLTQEEMYWHPAAKQYYTTNEVIAEAERVKIRYIISPK YNRHVPPILIPPGEVAKMEISPAAVGKVGVTLNRYMSNIWTLQNGQPKYKQRLIHTRIDNLKLTSTVNGI GMPWGATVNFDMSVNDPIEVNITGVILCPWFTYGVHSDSEWENEMSKLPGFSPISTGNM
>OHS93232.1 Polymorphic membrane protein like protein [Tritrichomonasfoetus]
MSKENRPNFKDLKDTTLIDNKFRKLDRFSSQSFNKESTERSYLESVYITSTSFTCFSYGSTYFLGC GGAIFLCNSQLSIKGNTLFTKNSARVGGAIPLYASNVFIEGSSSSLVKFTSNKADFLGGAIFSTQGDSDD MKAQNFFQISFCDFGTNEAKEISGAVCIYSVFDSWIDHCIFDNNRAQHLSGALGFNCQGMFVFKSTFVN NTSGHRAFIQNSNFQPYQLKSFRKLNLKGGGGIFVQVKENTRKDLTSDDYRAKLFATQHCFANNTC SKLRTEPYNQGFDILFGGIVTYQSYTDIFLNVKNVSLGGHMNTDFIFAGTTFYDQDTEWDLTSNINQFF MVEERFPNLKSDIYDKLSVDKYEWPTTAALTDPAGPVNAAADSIDNNNDLPANTAPATKLPERTTRGGQ PAASTILPEWHVSSVSRTVHYVSPSMSPTESATESATESPTESATESPTESATESPTESATESPTESP SPTESPTESATASATESPTESPTESATESATESPTESPTESATESATESPTESATESPTESATESPTESP TESATESPTESPTESPTESATQSATCSPSLSPSESATSSATESPTESPTESATESPTESATESPTESP KDKSQFTTGKTAGLAIILFGFIVWWALVSATNSIYKMKKARLEDPNDDNNNGSSDRPETRMSNTETMSV VSMNDTIDDPFAEDFDENIIQICAPL