

Table S1. Nanopore and Illumina absolute frequency of Apicomplexa-assigned reads at taxonomic level 7.

Constructed from biom file

Animal Species

Tissues

#OTU ID

D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria cervi
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. NG-2012b
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Coccidia;D_6_Eimeriorina;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Toxoplasma;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis neurona
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Babesia;D_7_Babesia sp. capybara 1
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. 2 PJH-2012
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria equi
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. NG-2013a
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;_;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Coccidia;D_6_Eimeriorina;D_7_Coccidia sp. ex Cricetus cricetus
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;_;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Coccidia;D_6_Eimeriorina;D_7_Eimeriidae sp. RY-2014
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria ovis
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria equi strain WA
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp.
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Adeleorina;D_7_Hepatozoon;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Adeleorina;D_7_Hepatozoon;D_8_Hepatozoon sp. European pine marten 1
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Frenkelia glareoli
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Besnoitia;D_8_Besnoitia bennetti
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Adeleorina;D_7_Hepatozoon;D_8_Hepatozoon sp. I35
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. G164
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis dispersa
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Frenkelia;D_8_Frenkelia microti
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis miescheriana
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis sp.
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis scandinavica
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. North Texas white-tailed deer
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Toxoplasma;D_8_Ovis aries musimon (mouflon)
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. NG-2013c
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Isospora;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Babesia;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Babesia;D_7_Babesia sp. MA#230
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Isospora;D_8_Isospora wiegmanniana
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Besnoitia;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Babesia;D_7_Babesia sp. sable antelope/2005
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. ex Syncerus caffer
MCO-2011 D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Sarcocystis;D_8_Sarcocystis arctica
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eugregarinorida;_;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Babesia;D_7_Babesia sp. 1-1658
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Toxoplasma;D_8_Toxoplasma gondii RH
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Adeleorina;D_7_Hepatozoon;D_8_Hepatozoon ursi
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_6_Eimeriorina;D_7_Eimeria;_
D_0_Eukaryota;D_1_SAR;D_2_Alveolata;D_3_Apicomplexa;D_5_Piroplasmorida;D_6_Theileria;D_7_Theileria sp. H8

[illegible]

[illegible]

Mazama americana Tongue	Mazama americana Heart	Hydrochoerus hydrochaeris Lung	Cuniculus paca Tongue	Mazama americana Lung	Tapirus terrestris Heart
G0233L2_Illumina	G0233CR2_Illumina	G0068P1_ONT	G0113L_ONT	G0125P1.2_ONT	G0130CR1_ONT
75.0	637.0	1.0	1.0	4448.0	0.0
506.0	98.0	0.0	19766.0	1.0	0.0
0.0	0.0	0.0	0.0	3127.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1029.0	0.0	0.0
0.0	0.0	6280.0	1.0	0.0	0.0
0.0	0.0	0.0	0.0	451.0	0.0
0.0	0.0	0.0	0.0	0.0	18.0
67.0	1098.0	0.0	0.0	397.0	2.0
0.0	0.0	0.0	0.0	0.0	3.0
0.0	0.0	0.0	96.0	0.0	2.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	82.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	66.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	22.0	0.0
0.0	0.0	0.0	14.0	0.0	0.0
0.0	0.0	0.0	15.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	65.0	0.0	0.0
241.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	5.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	6.0	0.0
0.0	0.0	0.0	0.0	0.0	2.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	1.0	0.0
0.0	0.0	0.0	1.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0

Tapirus terrestris?	Tapirus terrestris?	Dasypus sp. nov.?	Cuniculus paca?	Mazama americana?	Mazama americana?
Heart	Lung	Tongue	Heart	Tongue	Heart
G0130CR2_ONT	G0130P_ONT	G0149LD_ONT	G0150CR1_ONT	G0233L2_ONT	G0233CR2_ONT
0.0	1.0	0.0	0.0	2239.0	3107.0
0.0	1.0	3118.0	0.0	2.0	0.0
0.0	0.0	0.0	0.0	939.0	493.0
0.0	0.0	0.0	143.0	0.0	0.0
0.0	0.0	0.0	643.0	0.0	0.0
0.0	0.0	173.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	694.0	592.0
261.0	742.0	0.0	0.0	0.0	0.0
37.0	72.0	0.0	0.0	776.0	1230.0
31.0	127.0	0.0	0.0	0.0	0.0
0.0	0.0	21.0	7.0	0.0	0.0
0.0	0.0	0.0	2.0	0.0	0.0
0.0	0.0	0.0	3.0	0.0	0.0
0.0	0.0	0.0	6.0	0.0	0.0
0.0	0.0	0.0	0.0	53.0	29.0
11.0	87.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	1.0	0.0
0.0	122.0	0.0	0.0	0.0	0.0
0.0	15.0	0.0	0.0	0.0	0.0
0.0	0.0	23.0	0.0	0.0	0.0
0.0	0.0	0.0	4.0	0.0	0.0
0.0	17.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	8.0	3.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	9.0	0.0	0.0	0.0
0.0	0.0	4.0	0.0	0.0	0.0
0.0	0.0	7.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	4.0	0.0
0.0	0.0	0.0	0.0	13.0	23.0
0.0	0.0	0.0	1.0	0.0	0.0
0.0	0.0	0.0	0.0	1.0	0.0
2.0	0.0	0.0	0.0	0.0	0.0
8.0	1.0	0.0	0.0	0.0	0.0
1.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
1.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
1.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	1.0	0.0