

**Supplementary Table S1.** The number of OTUs, Shannon diversity and total read count of *Haemaphysalis longicornis* microbiome. Nymph (N1-N11), female adult (F1-F3), and male adult (M1-M4) tick samples

	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	F1	F2	F3	M1	M2	M3	M4
No. of OTUs	69	151	113	100	93	131	162	113	126	481	228	86	105	79	155	96	79	193
Shannon diversity	0.95	1.505	1.24	1.238	0.495	0.741	1.653	2.048	2.305	2.921	1.958	0.376	1.246	0.874	0.616	0.586	0.471	1.435
Total read count	36,651	59,712	24,483	19,921	63,625	60,124	63,270	63,774	54,909	60,756	56,483	54,675	60,375	63,046	32,011	31,300	49,844	29,333