

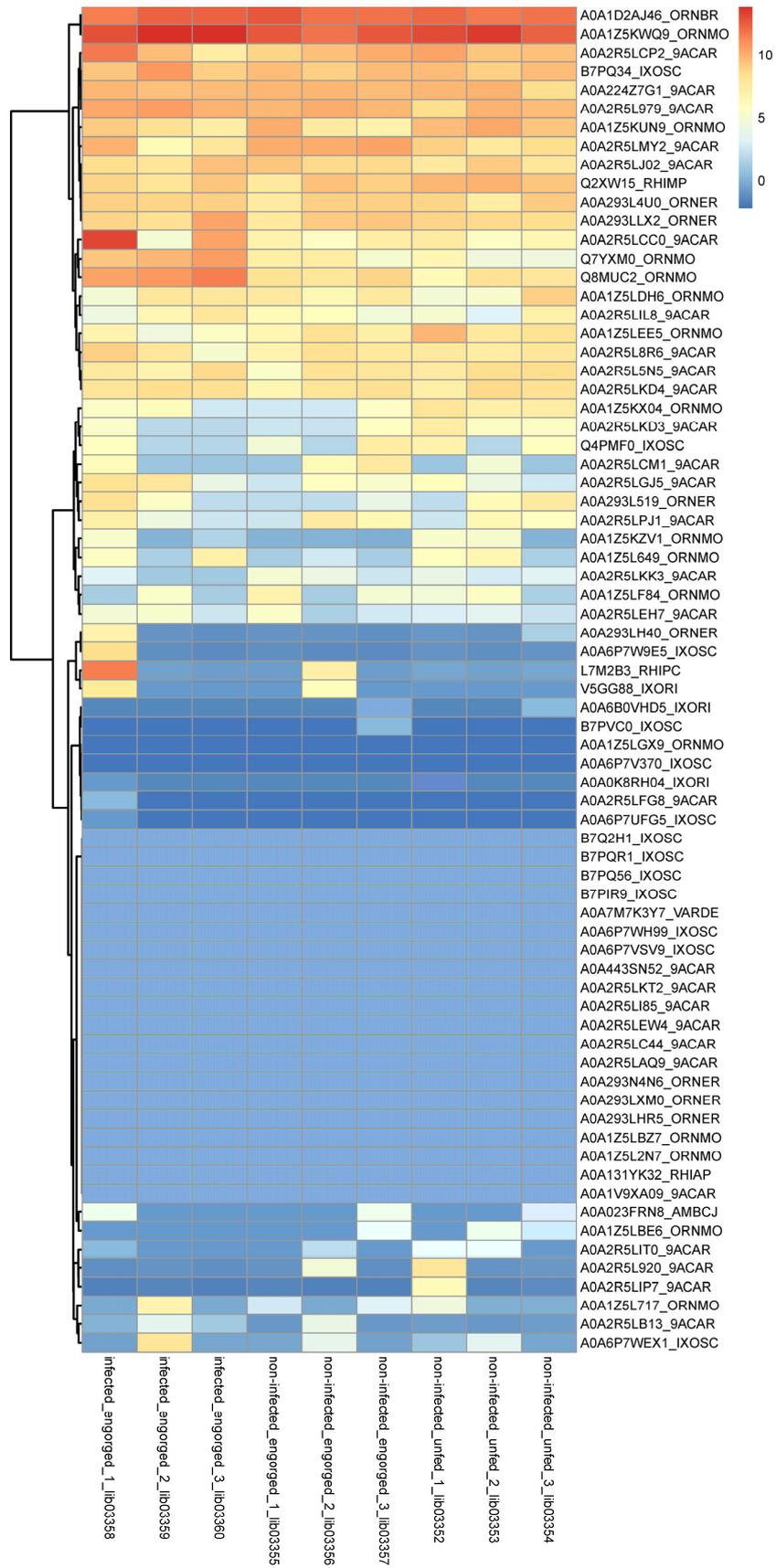
## Supplementary Materials

**Table S1.** Basic summary of analysed samples, treatments, and sequencing results. Each sample represents the midgut of an *Ornithodoros moubata* individual

Identifier	Treatment	Infection	Number of trimmed reads (millions)	Mean read length [bp]
lib03352	unfed	non-infected	7.6	156
lib03353	unfed	non-infected	9.4	153
lib03354	unfed	non-infected	7.6	157
lib03355	engorged	non-infected	8.5	158
lib03356	engorged	non-infected	9.3	150
lib03357	engorged	non-infected	11.1	155
lib03358	engorged	<i>Borrelia duttonii</i> -infected	9.5	149
lib03359	engorged	<i>Borrelia duttonii</i> -infected	8.1	140
lib03360	engorged	<i>Borrelia duttonii</i> -infected	11.6	121

**Table S2.** Additional sequencing data from *Ornithodoros moubata* included into the de novo assembly

SRA run accession	Description	Number of reads (millions)	BioProject accession	Publication
SRR12771191	<i>Ornithodoros moubata</i> : sialotranscriptome	51.4	PRJNA667315	Oleaga et al. 2021
SRR12771192	<i>Ornithodoros moubata</i> : sialotranscriptome	42.6	PRJNA667315	Oleaga et al. 2021
SRR12771193	<i>Ornithodoros moubata</i> : sialotranscriptome	40.9	PRJNA667315	Oleaga et al. 2021
SRR12771194	<i>Ornithodoros moubata</i> : sialotranscriptome	45.1	PRJNA667315	Oleaga et al. 2021
SRR12771195	<i>Ornithodoros moubata</i> : sialotranscriptome	45.6	PRJNA667315	Oleaga et al. 2021
SRR12771196	<i>Ornithodoros moubata</i> : sialotranscriptome	50.0	PRJNA667315	Oleaga et al. 2021
SRR5313934	<i>Ornithodoros moubata</i> : midgut genes after blood feeding	26.3	PRJNA377416	Oleaga et al. 2017
SRR5313935	<i>Ornithodoros moubata</i> : midgut genes after blood feeding	32.6	PRJNA377416	Oleaga et al. 2017



**Figure S1.** Expression data for selected immune-related transcripts in *Ornithodoros moubata*. The selected transcripts matched one of the following gene ontology terms: defence, dorin, lysozyme, oxidative stress response, antimicrobial peptide, innate immune response. The expression counts are presented as regularized log transformed data.