

1 **Supplementary Material**

2 **Table S1.** Ct values from Real-Time PCR with canine parasites genomic DNA.

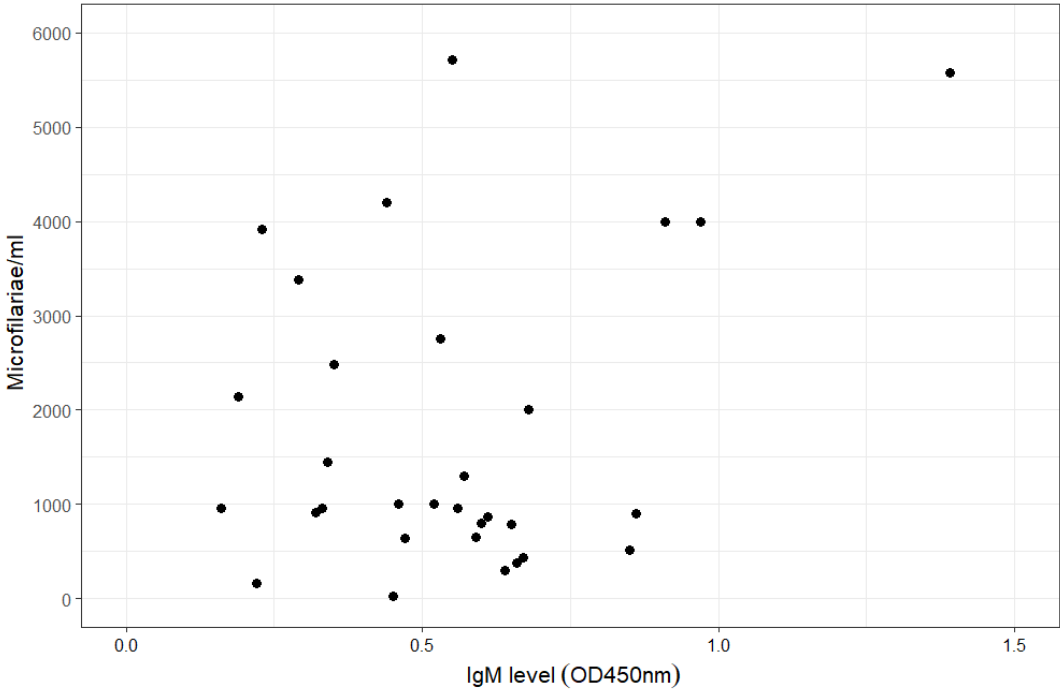
gDNA	s16	drpa	cox1
<i>Dirofilaria repens</i>	13.50	19.02	13.67
<i>Toxocara canis</i>	-	-	-
<i>Mesocestoides litteratus</i>	-	-	-
<i>Taenia krebbel</i>	-	-	-
<i>Dipylidium caninum</i>	-	-	-
<i>Uncinaria stenocephala</i>	-	-	-

3 “-“ not detected.

4 **Table S2.** The list of antibodies and phage library used in experiments.

Product	Company	Catalog number
Goat Anti-Dog IgG H&L (HRP)	abcam	ab112852
Goat Anti-Dog IgM H&L (HRP)	abcam	ab112835
Goat Anti-Rat IgG Antibody, HRP conjugate	Sigma	AP136P
Biotin-SP (long spacer) AffiniPure	Jackson	304-065-008
Rabbit Anti-Dog IgG, Fc fragment specific	ImmunoResearch	
Goat anti-Dog IgM Fc specific, Biotin conjugated	Agrisera	AS16 3129
Ph.D. TM -12 Phage Display Peptide Library	New England Biolabs	E8111L

5 **Figure S1.** Spearman’s correlation coefficient was visualized between the number of microfilariae in
6 the blood and IgM levels in dogs infected with *D. repens*; p-value = 0.8242; rho = -0.0415.



8 **Figure S2.** Spearman's correlation coefficient was visualized between the number of microfilariae in
9 the blood and IgG levels in dogs infected with *D. repens*; p-value = 0.6605; rho = 0.0818.

