

Table S1. Experimental Design showing distribution of e-trait records (microarrays) across days post-infection and three tissues

Time after infection	Abomasum	Blood	Gut
Day 0	None (4)	None (8)	None (4)
Day 3	HC (4)	HC (4) TC (4)	TC (4)
Day 7	HC (4)	HC (4) TC (4)	TC (4)
Day 21	HC (4)	HC (4) TC (4)	TC (4)

Table S2. Distribution of e-trait records across ten sire groups, tissue types (A: Abomasum; B: Blood, G: Gut) and length of infection (in days) by HC or TC worms

Sire (no.records)	Tissue type	Records Per tissue	Time of sampling after infection			
			0 days	3 days	7 days	21 days
7010 (6)	G	3	1 (none)		1 (TC)	1 (TC)
	B	3	1 (none)		1 (TC)	1 (TC)
7015 (5)	G	2	1 (none)			1 (TC)
	B	3	1 (none)		1(HC)	1 (TC)
7021 (4)	A	1	1 (none)			
	G	1	1 (none)			
	B	2	2 (none)			
7040 (6)	A	2	1 (none)		1 (HC)	
	G	1	1 (none)			
	B	3	2 (none)		1 (HC)	
7067 (10)	A	2			1(HC)	1(HC)
	G	3			1 (TC)	2 (TC)
	B	5			1 (HC) 1 (TC)	2 (TC) 1 (HC)
7072 (8)	A	2		1 (HC)		1 (HC)
	G	3		2 (TC)	1 (TC)	
	B	3		1 (HC) 1 (TC)	1 (TC)	
7076 (1)	B	1		1 (TC)		
7078 (9)	A	3		1 (HC)	2 (HC)	
	G	2		1 (TC)	1 (TC)	
	B	4		1 (HC) 1 (TC)	1 (HC) 1 (TC)	
5485 (6)	A	3	2 (none)	1 (HC)		
	B	3	2 (none)	1 (HC)		
5543 (9)	A	3		1 (HC)		2 (HC)
	G	1		1 (TC)		
	B	5		1 (HC) 1 (TC)		3 (HC)
Total (64)		64	16	16	16	16