Table S1 Primer sequences of microsatellite, sequence-tagged site (STS), and single-strand conformational polymorphism (SSCP) markers used in the study for fine mapping beetle tapeworm parasite susceptibility QTL in *Tribolium castaneum*.

No.	Marker [a]	*LG*	*cM*	Forward primer	Reverse primer	Motif (Repeats)	Size(bp)	Note [b]
1	Tca3.2267	3	6.48	GCCAGAACGCCAAATAAAAC	TACGGTATGTTGCGGATTGA	SSCP	191	AC191[L]
2	Tca3.2331	3	6.66	GGCCAACAATATAACAACCGA	GAATCAGAGGCTGCTAACGTC	A(12)	232	This study
3	Tca3.3038	3	8.69	TGTGATTTTCTTTGGTTCAACG	CAAATTGCATTTGTCGCATC	SSCP	290	26.M03t[L]
4	Tca3.3800	3	10.86	GACCGAATGGCGTCTTACTC	ACAATAAAAGCCTAGCTGGAGG	T(12)	232	This study
5	Tca3.4657	3	13.31	GCCGTCGTTTTATTTCCAGA	CTGGTTCGGTCTGTGGATTT	SSCP	258	This study
6	Tca3.4771	3	13.63	GCCAACAGACGCGCTTTCATT	ACGAGTTACCGCATCAGATTCCTTTAT	CGG(5)	281	S1031[L]
7	Tca3.4821	3	13.77	CCAATGGTGAGAGGTCCCTA	CATTCCGTAATCCGCAAACT	SSCP	278	This study
8	Tca3.4924	3	14.07	GGACTCGGACTTTCAAGCAG	GTCGACGAAATGGGAAAGAA	SSCP	219	This study
9	Tca3.4970	3	14.20	GCCTGGGTGTCATCACTGTA	TGGAGCACGATCAAAGAGTG	SSCP	213	This study
10	Tca3.5286	3	15.10	TTGCTGCTTCCGAATGTATG	CCCATATTTGCACTCAAGCA	SSCP	317	This study
11	Tca3.5465	3	15.61	GAATATTCCGTCTGGCCGTA	TGTGATTGCGAAACTCGAAG	GGC(6)	202	L2A8.377s[Z]
12	Tca3.5912	3	16.89	GTATATTGCGGTTCGCTGGT	GTCATCGTGAACGTTGTTGG	SSCP	321	This study
13	Tca3.5953	3	17.01	CGCAACTGCAAGAAAAATTG	TTGGTTTTGCGTGTTACGAG	SSCP	204	25E11[L]
14	Tca3.6143	3	17.55	ATCCGGCCAGTAAAAGTGTG	CGCGCATAAATAAACCGAAT	SSCP	228	This study
15	Tca3.6763	3	19.31	TGTTTTTGATTTTCTCTTTGCAT	AAGCACAATTGGTCAAAACAAA	T (16)	271	Tca-3.45[D]
16	Tca3.6901	3	19.69	ACCAATCGACCACGTTTTTC	ACCGAGGTGGGCTTTAAACT	SSCP	211	32.D14s[L]
17	Tca3.6939	3	19.83	TTCAATCAGTTTTCTTTCTGTCAA	TACGATGCATTGGATTTTGG	TAT (6)	239	Tca-3.22[D]
18	Tca3.6972	3	19.92	CCTCCTGAAAGGACACAGGA	GGTGCAACTCGCTTCTTCAT	TCA (5)	228	Tca-3.11[D]

19	Tca3.7226	3	20.65	GGCAACCGCACTAAACACTT	AAGTTGGCGCTTTAGGAACA	SSCP	348	This study
20	Tca6.1708	6	4.90	AAGGACAGGTTGTGGTTTTAGG	TCCCATTATAGCCCACTTCACT	T(13)	108	This study
21	Tca6.2427	6	6.93	CCAAAACCACAGAACTTGCATA	AGCTAGACTTCGCCTCCTCATT	AAT(6)	118	This study
22	Tca6.2445	6	6.99	CAGAAGCTATGAGAGCTGCAGTA	TTAACAGAATTGCGGGAAAAA	ATT (9)	187	Tca-6.12 [D]
23	Tca6.2726	6	7.79	GACACGCTCCAGCAAGTTTAC	CGTAGCTCCAATAACAACTCCC	A(16)	159	This study
24	Tca6.2926	6	8.34	AATTCAGCGTTTGCTGCT	TGTTTGCATCGCTTGTTCT	AATT(4)	157	This study
25	Tca6.3003	6	8.67	CACAGGCGTAGATTGGTTGTT	TCAGGCTTACTTGGGTTAGCA	TA(26)	215	This study
26	Tca6.3352	6	9.58	AATTGGAAGGAAGTGTTTGGTG	AAAAGTGGCGATGATTACGTCT	A(12)	226	This study
27	Tca6.3393	6	9.69	GTCCCATAAGCTGCATTCGT	TGGCGCAATTTTGTAACTGA	SSCP	236	This study
28	Tca6.3527	6	10.08	TGGCCTTAAATCGTCAATTTTT	CAGAAATGCCAGCTGTTCTTC	ATTTA(5)	255	This study
29	Tca6.3661	6	10.46	GAAAACGCCAAATCGACATT	TCGTTTATGTAGCCGGTGAA	ATT(5)	222	Tca-6.7 [D]
30	Tca6.3810	6	10.89	ATCATCTGGAGCGACAAACC	GATTTATTTGCGGCGACCT	A(16)	160	This study
31	Tca6.4168	6	11.91	GATAAGGTAGGGCAGCTTCG	GGGTGGGTACGAACAAGAAT	T(13)	243	This study
32	Tca6.4460	6	12.74	TCACCCTTATCTTCCTCCGAT	CATTTGGCCGATCTTCAGTC	A(14)	230	This study
33	Tca6.4509	6	12.89	ACCTGACCTGACCTGACCTG	CGTCAGTTGTTTCTCGCAAA	CCTGA (4)	186	Tca-6.26 [D]
34	Tca6.5044	6	14.37	AGATCCCAATGGGCAAATCT	GCCGAAACTTTGGGTGATAA	TCAAG (5)	200	Tca-6.18 [D]
35	Tca6.5425	6	15.50	TTTTTGCTCAGAACACTCAAAA	CCTTCATATGTGGAAGGAAACA	ATT (5)	194	Tca-6.16 [D]
36	Tca6.5819	6	16.63	AAAATGCGTTTTTCACTCAAAT	CCAACTCGCCCATTATGAAC	T (12)	206	Tca-6.13 [D]
37	Tca6.6324	6	18.07	AACGAGCCCATAACCAGAGA	TTTGGCGAAGAAAACTGAAAA	A (13)	211	Tca-6.4 [D]
38	Tca6.6659	6	19.03	TTGTTTGTTAAGATCAAGGCAAAA	TGGTCACTCTTTTTCGCTATGT	GA (8)	194	Tca-6.36 [D]
39	Tca6.6723	6	19.21	AAATTATAAATCAAGCAGACAGGAG	TCCTGTATAAACGATTATGTTTTCAA	TAA (5)	205	Tca-6.33 [D]

40	Tca8.2341	8	6.69	TTTGTAGATTTGTATTTTGGCAAT	GGAATCCTGGAATCTTAGAACG	TTA (20)	194	Tca-8.8 [D]
41	Tca8.2668	8	7.62	TAGGGTGATCCTGCTAAAAGTACC	TGGATCTAAACTTCGCCCATA	TAA (21)	188	Tca-8.35 [D]
42	Tca8.3441	8	9.83	TTTGGCATTTCTCAAGGTCA	GGTAGATGCGCTGGAATTTT	AAT(8)-ATA(5)	244	This study
43	Tca8.3671	8	10.49	TTTGAAATGGTTCAACACGC	CTCCGCCTGTTTGTTGGTAT	AAT (7)	145	Tca-8.14 [D]
44	Tca8.3781	8	10.80	GGTTTAGCCAAAGGAACTTCG	AAAGTTAACAACGCGAATGGA	CCA(5)-CAA(4)	232	This study
45	Tca8.4007	8	11.50	ATCTGTATTCCGTTTGGTAAGC	AGCTAGATTTTGCCTCTTCACA	TAA(6)-TAA(15)	195	This study
46	Tca8.4236	8	12.10	TGGGTTAAGTTGAAGTAGCCTTG	GAAACGAAGTGAGAAAACGGA	TTA(7)	181	This study
47	Tca8.4398	8	12.57	TGTTTTGTTTGATTTTGAGTTTGTC	TTCGCTTAATGAATGCCTCC	TTA (23)	205	Tca-8.16 [D]
48	Tca8.4517	8	12.85	TGCATTCAGGCGCTTAATTT	TCAATGTACAGGCTGGTGTG	A (15)	196	Tca-8.48 [D]
49	Tca8.5815	8	16.61	GGTTAAATAGGACAAAGTTGCG	AGAACGCCTTGGAAAAGGTA	A(14)	157	This study
50	Tca8.6428	8	18.34	TGTGAGGTCCCATGGTGTAA	ACATTTATTTGGTCCCACAAGC	T (15)	195	Tca-8.22 [D]
51	Tca8.6819	8	19.49	TAAACACACGTCCGGTTCCT	TTTGTTGTCGAGATACTGTTAGACG	CA(8)	180	This study
52	Tca8.7101	8	20.30	AAAGCGCTGTTGCAAAATTC	ACCCACTCAGTAGCCAGTGC	TTA(9)-TTA(5)	178	Tca-8.32 [D]
53	Tca8.7305	8	20.87	CCGGATAATGGAGGTTTCA	TCTCTTTGCATGTGGGTTTT	TTAA(4)	211	This study
54	Tca8.7359	8	21.03	CCGAGCGAGGAGTATATGTTG	GAACGCAAAACGACCAAATC	CA(9)	215	This study

Note: a: Markers are designated by the beetle species name *Tribolium castaneum* (Tca), genetic linkage group and location on linkage group. For example, marker Tca3.2267 represents the marker located at the 2267kb position on linkage group 3, whereas Tca6.1708 represents the marker located at the 1708kb position on linkage group 6. b: Reference *L:* Lorenzen et al 2005; *D*: Demuth et al 2007; *Z*: Zhong et al 2004. *LG*:Linkage Group; *cM*: centiMorgan.