

S3 Table. Summary of QTL mappings: Exp2

Analysis and method			Chr.	QTL	CIM					MIM							
Phenotype	LOD threshold	Map. pop.			Position	CI-L <sup>1</sup>	CI-R <sup>1</sup>	Effect	H <sup>2</sup> (%)	Position	LOD	Effect	H <sup>2</sup> (%)	h <sup>2</sup> (%)			
Offspring (T)	1.9	442	X-3	HMS3	51.3	44.1	56.1	-11.5	6.0	51.3	10.1	-12.5	8.1	20.2			
				HMS4	-	-	-	-	-	98.7	1.3	-4.7	2.6	6.5			
			2	HMS5	129.4	120.6	130.0	-6.9	1.9	129.4	3.3	-7.4	3.5	8.7			
				HMS6	25.5	24.8	28.6	19.8	17.9	25.5	19.3	18.2	19.9	49.6			
			HMS3 × HMS4	HMS8	59.3	47.2	70.7	8.1	2.8	59.3	3.3	8.1	6.0	15.0			
				HMS3 × HMS6	-	-	-	-	-	-	-	1.9	5.3	1.0	-		
			<b>Sum</b>	-	-	-	-	-	-	-	2.1	5.2	1.2	-	-		
			Log <sub>10</sub> (T+1)	2.2	459	X-3	HMS3	49.3	43	54.8	-0.2	6.3	46.3	27.7	-0.28	10.6	16.8
							HMS4	95.9	83.2	109.8	-0.1	1.2	90.9	13.5	-0.21	7.4	11.7
						2	HMS5	129.4	120.7	130	-0.1	1.2	129.4	4.5	-0.09	2.1	3.3
HMS6	25.5	24.6					29.1	0.4	15.9	28.5	44.0	0.37	28.8	45.6			
HMS3 × HMS4	HMS7-1	37.3				37.3	38.4	0.5	37.2	-	-	-	-	-	-		
	HMS8	51.3				47.3	60.6	0.2	4.2	53.3	16.5	0.23	14.2	22.5			
HMS3 × HMS6	HMS3 × HMS4	-				-	-	-	-	-	-	16.6	0.22	6.8	-		
	HMS4 × HMS5	-				-	-	-	-	-	-	2.5	-	1.0	-		
HMS3 × HMS6	HMS3 × HMS6	-				-	-	-	-	-	-	0.069	-	-	-		
	HMS5 × HMS6	-				-	-	-	-	-	-	20.1	0.20	5.0	-		
HMS4 × HMS8	HMS4 × HMS6	-	-	-	-	-	-	-	1.4	0.050	1.3	-					
	HMS6 × HMS8	-	-	-	-	-	-	-	11.6	0.20	6.2	-					
<b>Sum</b>	-	-	-	-	-	-	-	6.7	0.14	2.0	-	-					
Binary (T)	2.0	442	X-3	HMS3	47.3	41.5	52.6	-0.1	6.0	47.3	30.4	-0.13	8.8	14.5			
				HMS4	105.7	96.7	112.7	-0.1	4.2	105.7	47.6	-0.12	5.7	9.4			
			2	HMS6	24.8	24.3	26.4	0.2	13.4	23.3	17.6	0.098	12.8	21.1			
				HMS7-2	42.8	41.2	45.8	0.2	10.4	43.8	21.8	0.25	33.5	55.1			
			HMS3 × HMS4	HMS3 × HMS4	-	-	-	-	-	-	-	48.1	0.13	7.4	-		
				HMS3 × HMS6	-	-	-	-	-	-	-	24.2	0.13	6.6	-		
			HMS4 × HMS6	HMS4 × HMS6	-	-	-	-	-	-	-	16.3	-0.11	-4.8	-		
				HMS3 × HMS6	-	-	-	-	-	-	-	1.9	-	-1.0	-		
			HMS4 × HMS7-2	HMS4 × HMS7-2	-	-	-	-	-	-	-	50.8	0.029	22.6	-		
				<b>Sum</b>	-	-	-	-	-	-	-	34.0	0.25	91.6	100		
Sex ratio (k)	2.0	227	X-3	D5	54.7	44.2	72.9	2.4	1.4	52.7	0.3	0.015	1.8	2.8			
				D6	130.0	129.9	Rt tip	14.2	54.2	130.0	29.6	0.13	49.1	76.7			
			2	S3	-	-	-	-	-	-	-	18.6	2.4	0.037	5.2	8.1	
				S4	44.8	38.8	52	5.1	4.7	43.8	6.2	0.052	7.9	12.3			
			D5 × S3	D5 × S3	-	-	-	-	-	-	-	1.3	0.032	1.6	-		
				D6 × S4	-	-	-	-	-	-	-	2.6	0.040	12.4	-		
			<b>Sum</b>	-	-	-	-	-	-	-	60.3	-	78.0	100			

<sup>1</sup>CI-L and CI-R: the left and right positions of the 95% confidence intervals