

Table 3. Markers genotyped in the study. Contig positions are with reference to NT_025741.13. P - values for the mixed-model ANOVA test the alternative hypothesis of different trait means for each genotype against the null hypothesis that the genotype means are equal. Markers without P - values reported for the 2nd panel have been genotyped only in the 1st panel. There was no evidence ($P > 0.05$) of population stratification with a between-family variance-components test.

Chromosome position	Contig position	Internal ID	dbSNP ID	ANOVA p-values	
				1st panel	2nd panel
135329106	39391842	-	rs9402669	6.8E-01	
135349178	39411914	-	rs4376364	4.6E-01	
135364022	39426758	-	rs9373120	5.4E-01	
135392072	39454808	-	rs987690	2.6E-03	
135396811	39459547	-	rs4896130	7.3E-03	2.5E-01
135400260	39462996	-	rs7742542	2.8E-03	3.8E-01
135401739	39464475	-	rs9376084	4.6E-01	7.7E-03
135407511	39470247	-	rs6569990	3.7E-03	2.4E-01
135410907	39473643	-	rs6915770	4.1E-03	3.2E-01
135411606	39474342	-	rs11755229	7.6E-03	2.0E-01
135414769	39477505	-	rs1041480	6.2E-03	3.7E-01
135417455	39480191	-	rs2297338	4.0E-03	3.3E-01
135417684	39480420	C29955341	rs2297339	3.6E-01	
135417685	39480421	C29955342	rs52090900	4.0E-07	
135417751	39480487	C29955343	rs2297340	3.3E-03	
135417902	39480638	C29955344	rs52090901	5.8E-05	2.3E-03
135417925	39480661	C29955345	rs52090902	2.6E-03	2.4E-01
135418072	39480808	C29953465	rs52090903	3.8E-03	2.2E-01
135418102	39480838	C29955337	rs9389262	4.6E-03	3.4E-01
135418168	39480904	C29953466	rs13208043	1.2E-01	8.1E-01
135418784	39481520	C29953468	rs2183709	5.3E-03	2.9E-01
135418879	39481615	C29953469	rs4142299	4.5E-03	1.9E-01
135420841	39483577	C29953745	rs11154791	4.5E-04	6.1E-04
135422941	39485677	C29953471	rs11759062	1.5E-04	7.5E-04
135423044	39485780	C29953472	rs11759077	2.4E-04	5.4E-04
135424673	39487409	-	rs6904897	2.0E-05	2.0E-04
135425482	39488218	C29953474	rs11758774	1.1E-04	7.5E-04
135432529	39495265	C29953462	rs1547247	1.2E-14	
135437241	39499977	C29953463	rs13220662	2.8E-11	4.1E-09
135443064	39505800	C29953464	rs52090904	4.1E-08	2.0E-08
135446815	39509551	C29953534	rs1331308	4.4E-05	
135447052	39509788	C29953535	rs949895	9.4E-05	
135450809	39513545	-	rs6913541	2.6E-03	
135452921	39515657	C29953538	rs9376090	7.9E-36	3.8E-40
135453430	39516166	C29953539	rs9389266	1.3E-03	
135454075	39516811	C29953540	rs52090905	4.0E-09	9.9E-08
135454329	39517065	C29953541	rs52090906	4.8E-09	
135455762	39518498	C29953542	rs52090907	1.8E-09	
135460711	39523447	C29954334	rs9399137	4.5E-38	3.8E-40
135460947	39523683	C29953510	rs52090908	6.4E-06	
135460998	39523734	C29953511	rs9402684	2.4E-04	
135461381	39524117	C29953514	rs9402685	9.4E-32	2.7E-37
135461527	39524263	C29953515	rs7743042	1.2E-04	
135463989	39526725	C29953517	rs11759553	7.6E-39	5.4E-37

Chromosome position	Contig position	Internal ID	dbSNP ID	ANOVA p-values	
				1st panel	2nd panel
135465105	39527841	C29953519	rs1074849	7.3E-12	
135465872	39528608	C29953520	rs52090909	4.9E-38	1.2E-37
135465896	39528632	C29953521	rs6930223	1.1E-05	
135468251	39530987	C29953523	rs4895440	4.1E-39	1.0E-35
135468266	39531002	C29953524	rs4895441	2.2E-38	2.8E-36
135468837	39531573	C29953525	rs9376092	2.1E-38	3.0E-36
135468852	39531588	C29953526	rs9389269	1.1E-38	2.0E-35
135469510	39532246	C29953527	rs9402686	1.7E-38	5.1E-36
135471786	39534522	C29954343	rs10484494	2.4E-08	4.4E-05
135473333	39536069	C29953581	rs11154792	1.4E-35	3.6E-31
135473754	39536490	C29953582	rs1411919	8.3E-12	1.4E-15
135474576	39537312	C29953583	rs7766963	4.3E-03	
135476864	39539600	-	rs2223385	3.9E-12	5.2E-16
135477194	39539930	C29953585	rs9483788	6.6E-29	4.0E-24
135479079	39541815	C29953586	rs1320959	2.8E-11	
135480316	39543052	C29953589	rs52090910	1.4E-07	9.2E-06
135480956	39543692	C29953590	rs2026937	1.0E-02	2.0E-01
135484218	39546954	C29953593	rs9483791	2.3E-11	1.5E-14
135484905	39547641	-	rs1320963	5.3E-12	6.3E-14
135485702	39548438	C29953595	rs2026938	1.3E-10	4.2E-14
135487141	39549877	C29953596	rs9376093	6.8E-12	1.8E-15
135487507	39550243	C29953597	rs9376094	4.1E-11	5.3E-15
135488534	39551270	C29953599	rs9399139	1.3E-01	5.4E-01
135489466	39552202	C29953600	rs9321485	3.4E-10	1.1E-13
135489513	39552249	C29953601	rs9321486	5.2E-12	1.5E-14
135491008	39553744	C29953602	rs9494149	1.5E-10	1.9E-14
135492448	39555184	C29953604	rs9376095	2.7E-10	3.3E-14
135492890	39555626	C29953607	rs1041478	3.7E-01	5.5E-01
135493257	39555993	C29953608	rs6934903	5.2E-23	2.0E-18
135493273	39556009	C29953609	rs1569534	1.5E-11	1.4E-13
135495720	39558456	C29953611	rs6929404	5.4E-12	1.1E-13
135497022	39559758	C29953614	rs9385716	3.5E-11	3.7E-13
135499234	39561970	C29953662	rs1883354	5.9E-01	2.8E-01
135509418	39572154	C29953684	rs6929368	4.4E-01	3.9E-01
135509698	39572434	-	rs9494154	2.4E-17	6.2E-16
135510584	39573320	C29953685	rs9494155	4.1E-01	7.3E-01
135519030	39581766	-	rs7765438	4.5E-01	3.3E-01
135524512	39587248	C29953689	rs6922541	3.9E-01	
135542466	39605202	C29350526	rs6938173	8.5E-08	4.2E-08
135543234	39605970	Bpil		1.0E-08	8.7E-07
135545478	39608214	-	rs210962	4.5E-07	1.1E-08
135549087	39611823	C29336484	rs6922903	8.9E-07	
135556251	39618987	C17988439	rs210798	2.1E-02	
135556526	39619262	C29942363	rs52090911	1.5E-03	
135559307	39622043	C29942346	rs12663543	1.1E-06	3.7E-09
135559689	39622425	C29942347	rs12660713	1.9E-05	
135561193	39623929	C29334569	rs6920829	1.4E-05	1.5E-07
135564050	39626786	C29942366	rs52090912	2.7E-08	1.1E-08
135564375	39627111	C29380834	rs7757388	5.5E-01	

Chromosome position	Contig position	Internal ID	dbSNP ID	ANOVA p-values	
				1st panel	2nd panel
135564448	39627184	C18118072	rs3752383	2.8E-08	
135564632	39627368	C18015056	rs743589	1.4E-08	5.3E-09
135565479	39628215	C29942351	rs52090913	2.5E-08	
135566209	39628945	C29942352	rs9385719	1.5E-08	3.6E-09
135566246	39628982	C29942355	rs9402696	2.8E-08	
135567089	39629825	C18122181	rs3819409	2.4E-08	4.0E-09
135567430	39630166	C18122182	rs3819410	8.5E-09	
135567620	39630356	C29942356	rs9389278	1.2E-08	
135571254	39633990	C29942357	rs12203816	9.4E-09	7.2E-09
135573144	39635880	C17988503	rs210950	8.3E-09	2.6E-09
135573332	39636068	C17988502	rs210949	2.3E-06	
135573493	39636229	C17988501	rs210948	1.9E-01	
135576711	39639447	C17988497	rs210944	1.2E-01	
135577140	39639876	C17988495	rs210942	8.8E-07	6.8E-07
135577714	39640450	C29348821	rs6936293	1.2E-07	
135578189	39640925	C17988494	rs210941	1.8E-01	
135578886	39641622	C29362372	rs7738267	1.4E-07	2.7E-10
135580285	39643021	C18076714	rs2179308	4.5E-01	
135580332	39643068	C18028011	rs1013891	4.5E-05	1.1E-03
135581089	39643825	C18117295	rs3216774	4.4E-02	1.0E+00
135625991	39688727	-	rs2050018	8.3E-01	
135650130	39712866	-	rs6904233	9.1E-01	
135658325	39721061	-	rs2142956	9.0E-01	
135714977	39777713	-	rs2746429	6.3E-01	
135794506	39857242	-	rs2757640	9.7E-01	
135818171	39880907	-	rs2614267	9.5E-01	
135827866	39890602	-	rs2614281	2.1E-01	
135859828	39922564	-	rs6928455	9.6E-01	