

**Table S1 Detailed SNP information of the homozygous region**

Affymetrix SNP ID	Marker	Chromosome	Physical Position	III:1	III:2	IV:1	IV:5	IV:6	IV:10	IV:7	IV:11
SNP_A-1512974	rs2013961	20	2265490	BB	AA	AB	AB	AB	AB	AB	AB
SNP_A-1511055	rs1109010	20	2405887	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1512375	rs3848810	20	3522148	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1509541	rs910652	20	3675970	AA	AB	AB	AA	AA	AB	AA	AA
SNP_A-1509668	rs674110	20	3676026	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1517452	rs910952	20	4141694	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1510407	rs2422925	20	4251877	AA	AB	AB	AA	AA	AB	AA	AA
SNP_A-1513801	rs3904872	20	4260153	NoCall	NoCall	NoCall	BB	BB	NoCall	NoCall	NoCall
SNP_A-1512173	rs3904864	20	4327086	AA	AB	AB	AA	AA	AB	AA	AA
SNP_A-1511202	rs1411296	20	6437010	AA	AB	AB	AA	AA	AB	AA	AA
SNP_A-1508028	rs723131	20	6529919	NoCall	AB	NoCall	AB	AB	AA	BB	BB
SNP_A-1512742	rs2224191	20	6755276	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1508861	rs723511	20	6786358	AB	AA	AA	AB	AB	AB	AA	AA
SNP_A-1515430	rs717087	20	6862914	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1519528	rs952793	20	6918831	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1517385	rs2149642	20	6962445	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1513440	rs717074	20	7120538	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1513450	rs720010	20	7174248	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1518624	rs2009752	20	7188177	AA	AA	AA	NoCall	AA	AA	AA	AA
SNP_A-1513356	rs724084	20	7223683	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1513218	rs2224053	20	7254965	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1510348	rs2223276	20	7830106	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1515069	rs2250711	20	8203869	BB	BB	NoCall	BB	BB	BB	BB	BB
SNP_A-1509024	rs813467	20	8361676	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1507452	rs771943	20	8362876	AB	AB	AB	AB	AB	AA	BB	BB
SNP_A-1518940	rs1473685	20	8411131	AA	AB	AB	AA	AA	AB	AA	AA

SNP_A-1514966	rs2223539	20	8489270	AB	AA	AA	AB	AB	AB	AA	AA
SNP_A-1519337	rs2206489	20	8714796	BB	AB	AB	BB	BB	AB	BB	BB
SNP_A-1512276	rs2327088	20	8714882	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1515630	rs2143267	20	8757225	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1517103	rs3848831	20	8799321	AA	AB	AB	AA	AA	AB	AA	AA
SNP_A-1513028	rs756374	20	8892142	AB	AB	AB	AB	AB	AA	BB	BB
SNP_A-1514406	rs724089	20	9001556	AB	AA	AA	AB	AB	AB	AA	AA
SNP_A-1516905	rs953021	20	9898715	BB	AB	AB	BB	BB	AB	BB	BB
SNP_A-1514455	rs725565	20	9953010	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1509328	rs2327282	20	10375960	AB	AB	AB	AB	AB	AA	BB	BB
SNP_A-1510576	rs973542	20	10640559	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1519560	rs2327302	20	10663404	BB	AB	AB	BB	BB	AB	BB	BB
SNP_A-1509521	rs763383	20	10845878	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1514736	rs1028846	20	10960899	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1512494	rs726867	20	11175697	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1508024	rs3887413	20	11754851	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1508766	rs803876	20	11798158	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1511241	rs2206798	20	11845445	BB	AB	AB	BB	BB	AB	BB	BB
SNP_A-1517499	rs720489	20	11897114	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1510612	rs729552	20	12131209	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1509951	rs2208970	20	12325493	AA	AA	AA	AA	AA	AA	AA	AA
SNP_A-1513642	rs912086	20	12339974	BB	BB	BB	BB	BB	BB	NoCall	NoCall
SNP_A-1514630	rs1074071	20	12633208	BB	BB	BB	BB	BB	BB	BB	BB
SNP_A-1515199	rs1099620	20	12738724	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1509681	rs3908399	20	12849275	AB	AA	AA	AB	AB	AB	AA	AA
SNP_A-1511747	rs2327450	20	12925506	BB	AB	AB	BB	BB	AB	BB	BB
SNP_A-1508911	rs721243	20	13168601	AB	BB	BB	AB	AB	AB	BB	BB
SNP_A-1514723	rs719628	20	13210487	AB	AB	AB	AB	AB	AA	BB	BB

SNP_A-1513229	rs2327790	20	13461712	AB	BB	BB	AB	AB	AB	BB	BB
<b>C20orf7</b>											
SNP_A-1519307	rs1358766	20	13858933	AB	AB	AB	AB	AB	BB	AA	AA
SNP_A-1513470	rs724820	20	15015407	AB	AB	AA	BB	BB	AB	AB	AB

Overview of genotypes called by GDAS for the SNPs located in the homozygous region. For each marker the Affy-ID and physical position is indicated. Sample IDs refer to family IDs in figure1.