

Table S2 Determination of candidate core regions co-segregated in the PM family through SNP array

SNP ID	Ref./variant allele	Physical position§	Chromosome location§	Genotype												
				I-2*		II-3*		III-2*		I-1		II-1		II-5		
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	
rs4908624	C/T	chr1:7412088	1p36.23	C	T	C	T	C	T	T	T	T	T	T	T	
rs4908625	G/A	chr1:7412961		A	G	A	G	A	G	G	G	G	G	G	G	G
rs845198	T/C	chr1:7416918		T	C	T	C	T	C	C	C	C	C	C	C	C
rs845196	G/A	chr1:7419591		G	A	G	A	G	A	A	A	A	A	A	A	A
rs845195	A/G	chr1:7419680		A	G	A	G	A	G	G	G	G	G	G	G	G
rs845267	G/A	chr1:7426126		G	A	G	A	G	A	A	A	A	A	A	A	A
rs845269	A/G	chr1:7426563		A	G	A	G	A	G	G	G	G	G	G	G	G
rs845222	T/G	chr1:7429092		T	G	T	G	T	G	G	G	G	G	G	G	G
rs3752543	T/C	chr1:7430394		C	T	C	T	C	T	T	T	T	T	T	T	T
rs11579620	G/A	chr1:7432615		A	G	A	G	A	G	G	G	G	G	G	G	G
rs10206704	T/C	chr2:31245290	2p23.1	C	T	C	T	C	C	T	T	T	T	T	T	
rs12999804	T/A	chr2:31245650		T	A	T	A	T	T	A	A	A	A	A	A	
rs10209881	T/C	chr2:31246249		C	T	C	T	C	C	T	T	T	T	T	T	
rs5009910	T/C	chr2:31249014		C	T	C	T	C	C	T	T	T	T	T	T	
rs12613732	T/G	chr2:31249427		G	T	G	T	G	G	T	T	T	T	T	T	
rs7608731	T/C	chr2:31249974		C	T	C	T	C	C	T	T	T	T	T	T	
rs1862966	T/C	chr2:31254752		C	T	C	T	C	C	T	T	T	T	T	T	
rs12712300	G/A	chr2:31255144		A	G	A	G	A	A	G	G	G	G	G	G	
rs6752662	C/T	chr2:31256937		T	C	T	C	T	T	C	C	C	C	C	C	
rs4952031	C/A	chr2:31259918		A	C	A	C	A	A	C	C	C	C	C	C	
rs10205111	C/T	chr2:43273312	2p21	T	C	T	C	T	T	C	C	C	C	C	C	
rs4953718	A/G	chr2:43275090		G	A	G	A	G	G	A	A	A	A	A	A	
rs9973820	G/A	chr2:43278048		A	G	A	G	A	A	G	G	G	G	G	G	

Table S2 Continued

SNP ID	Ref./variant allele	Physical position§	Chromosome location§	Genotype												
				I-2*		II-3*		III-2*		I-1		II-1		II-5		
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	
rs6756476	T/C	chr2:43278660		C	T	C	T	C	T		T	T	T	T	T	T
rs17030317	A/G	chr2:43280051		G	A	G	A	G	A		A	A	A	A	A	A
rs12712872	G/T	chr2:43280324		T	G	T	G	T	T		G	G	G	G	G	G
rs7559315	T/C	chr2:43281032		C	T	C	T	C	C		T	T	T	T	T	T
rs7601024	C/A	chr2:43281156		A	C	A	C	A	A		C	C	C	C	C	C
rs12992975	G/A	chr2:43281812		A	G	A	G	A	G		G	G	G	G	G	G
rs12712874	G/T	chr2:43282036		T	G	T	G	T	G		G	G	G	G	G	G
rs4953720	G/A	chr2:43282579		A	G	A	G	A	G		G	G	G	G	G	G
rs13035629	C/T	chr2:124153066	2q14.3	C	T	C	T	C	T		T	T	T	T	T	T
rs12479399	G/A	chr2:124153114		G	A	G	A	G	A		A	A	A	A	A	A
rs1526042	C/T	chr2:124153940		C	T	C	T	C	T		T	T	T	T	T	T
rs6541897	G/A	chr2:124154449		G	A	G	A	G	A		A	A	A	A	A	A
rs6541898	G/A	chr2:124154796		G	A	G	A	G	A		A	A	A	A	A	A
rs4848220	G/A	chr2:124155237		G	A	G	A	G	A		A	A	A	A	A	A
rs1405090	C/T	chr2:124155403		C	T	C	T	C	T		T	T	T	T	T	T
rs12475652	A/C	chr2:124156469		A	C	A	C	A	C		C	C	C	C	C	C
rs5029700	G/A	chr2:124156844		G	A	G	A	G	A		A	A	A	A	A	A
rs1534185	A/C	chr2:124157232		A	C	A	C	A	C		C	C	C	C	C	C
rs1526041	C/T	chr2:124157728		C	T	C	T	C	T		T	T	T	T	T	T
rs12468931	G/A	chr2:124157877		G	A	G	A	G	A		A	A	A	A	A	A
rs6743440	T/A	chr2:124158880		T	A	T	A	T	A		A	A	A	A	A	A
rs6723718	G/A	chr2:124163193		G	A	G	A	G	A		A	A	A	A	A	A
rs1405093	A/G	chr2:124169595		G	A	G	A	G	G		A	A	A	A	A	A

Table S2 Continued

SNP ID	Ref./variant allele	Physical position§	Chromosome location§	Genotype											
				I-2*		II-3*		III-2*		I-1		II-1		II-5	
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†
rs6751285	C/T	chr2:124169811		C	T	C	T	C	T	T	T	T	T	T	T
rs13000960	A/G	chr2:124172605		A	G	A	G	A	G	G	G	G	G	G	G
rs13000977	A/G	chr2:124172628		A	G	A	G	A	G	G	G	G	G	G	G
rs11122978	G/A	chr2:124174014		G	A	G	A	G	A	A	A	A	A	A	A
rs11122979	G/C	chr2:124174155		G	C	G	C	G	C	C	C	C	C	C	C
rs13029021	A/G	chr2:124176570		A	G	A	G	A	G	G	G	G	G	G	G
rs1358053	T/C	chr2:124177870		T	C	T	C	T	C	C	C	C	C	C	C
rs4678275	G/A	chr3:136653683	3q22.3	G	A	G	A	G	A	A	A	A	A	A	A
rs835637	A/T	chr3:136673157		A	T	A	T	A	T	T	T	T	T	T	T
rs835636	A/C	chr3:136674500		A	C	A	C	A	C	C	C	C	C	C	C
rs835632	A/T	chr3:136676525		A	T	A	T	A	A	T	T	T	T	T	T
rs1654925	A/G	chr3:136690391		A	G	A	G	A	A	G	G	G	G	G	G
rs361245	A/G	chr3:136695706		A	G	A	G	A	A	G	G	G	G	G	G
rs361242	C/G	chr3:136698330		C	G	C	G	C	C	G	G	G	G	G	G
rs11711599	G/T	chr3:136698509		G	T	G	T	G	T	T	T	T	T	T	T
rs168635	T/C	chr3:136699078		T	C	T	C	T	T	C	C	C	C	C	C
rs361240	T/G	chr3:136699893		T	G	T	G	T	G	G	G	G	G	G	G
rs75977	C/A	chr3:136700549		C	A	C	A	C	C	A	A	A	A	A	A
rs361239	G/T	chr3:136701295		G	T	G	T	G	G	T	T	T	T	T	T
rs361238	T/G	chr3:136701396		T	G	T	G	T	G	G	G	G	G	G	G
rs361237	A/G	chr3:136702414		A	G	A	G	A	A	G	G	G	G	G	G
rs9845076	C/T	chr3:136715468		T	C	T	C	T	C	C	C	C	C	C	C
rs361232	G/C	chr3:136727714		G	C	G	C	G	C	C	C	C	C	C	C

Table S2 Continued

SNP ID	Ref./variant allele	Physical position§	Chromosome location§	Genotype											
				I-2*		II-3*		III-2*		I-1		II-1		II-5	
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†
rs361233	G/C	chr3:136728357		G	C	G	C	G	C	C	C	C	C	C	C
rs835631	A/C	chr3:136746022		A	C	A	C	A	C	C	C	C	C	C	C
rs9850024	G/A	chr3:136746221		A	G	A	G	A	G	G	G	G	G	G	G
rs9874615	T/C	chr3:136746974		C	T	C	T	C	T	T	T	T	T	T	T
rs1460770	C/A	chr4:115405345	4q26	C	A	C	A	C	A	A	A	A	A	A	A
rs10516602	C/T	chr4:115407330		T	C	T	C	T	C	C	C	C	C	C	C
rs1460771	T/C	chr4:115407911		C	T	C	T	C	T	T	T	T	T	T	T
rs1585447	G/C	chr4:115412068		C	G	C	G	C	G	G	G	G	G	G	G
rs7676684	T/C	chr4:115413527		C	T	C	T	C	T	T	T	T	T	T	T
rs7698391	A/G	chr4:115413613		G	A	G	A	G	A	A	A	A	A	A	A
rs7698790	A/G	chr4:115413803		G	A	G	A	G	A	A	A	A	A	A	A
rs13102706	T/C	chr4:115414154		C	T	C	T	C	T	T	T	T	T	T	T
rs4833458	A/G	chr4:115414727		G	A	G	A	G	A	A	A	A	A	A	A
rs6839599	A/G	chr4:115415910		G	A	G	A	G	A	A	A	A	A	A	A
rs2054305	C/G	chr4:115417331		G	C	G	C	G	C	C	C	C	C	C	C
rs2740920	C/T	chr8:3890100	8p23.2	T	C	T	C	T	C	C	C	C	C	C	C
rs72624065	C/G	chr8:3892793		C	G	C	G	C	G	G	G	G	G	G	G
rs4507782	C/T	chr8:3896431		C	T	C	T	C	T	T	T	T	T	T	T
rs4433162	T/C	chr8:3896480		T	C	T	C	T	C	C	C	C	C	C	C
rs4379463	G/A	chr8:3896625		G	A	G	A	G	A	A	A	A	A	A	A
rs72624067	T/C	chr8:3896703		T	C	T	C	T	C	C	C	C	C	C	C
rs12677236	T/C	chr8:3896853		T	C	T	C	T	C	C	C	C	C	C	C
rs17068673	A/G	chr8:3896932		A	G	A	G	A	G	G	G	G	G	G	G

Table S2 Continued

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				I-2*		II-3*		III-2*		I-1		II-1		II-5	
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†
rs10503226	A/T	chr8:3897678		A	T	A	T	A	T	T	T	T	T	T	T
rs10503227	G/C	chr8:3897724		G	C	G	C	G	C	C	C	C	C	C	C
rs1060107	G/T	chr8:8561399	8p23.1	T	G	T	G	T	G	G	G	G	G	G	G
rs4840350	A/G	chr8:8561442		G	A	G	A	G	A	A	A	A	A	A	A
rs1060106	A/G	chr8:8561452		G	A	G	A	G	A	A	A	A	A	A	A
rs11249884	T/C	chr8:8561552		C	T	C	T	C	T	T	T	T	T	T	T
rs11249886	T/A	chr8:8562021		A	T	A	T	A	T	T	T	T	T	T	T
rs10503394	A/G	chr8:8565775		G	A	G	A	G	A	A	A	A	A	A	A
rs12681298	G/A	chr8:8566235		A	G	A	G	A	G	G	G	G	G	G	G
rs10103769	G/T	chr8:8573036		T	G	T	G	T	G	G	G	G	G	G	G
rs10110591	A/C	chr8:8576608		C	A	C	A	C	A	A	A	A	A	A	A
rs9329165	A/G	chr8:8576642		G	A	G	A	G	A	A	A	A	A	A	A
rs9329166	G/A	chr8:8576655		A	G	A	G	A	G	G	G	G	G	G	G
rs4841017	T/C	chr8:8577093		C	T	C	T	C	T	T	T	T	T	T	T
rs13248096	C/T	chr8:8577476		T	C	T	C	T	C	C	C	C	C	C	C
rs13256216	C/T	chr8:8577883		T	C	T	C	T	C	C	C	C	C	C	C
rs486056	C/G	chr13:35937802	13q13.3	G	C	G	C	G	C	C	C	C	C	C	C
rs487005	G/A	chr13:35937910		A	G	A	G	A	G	G	G	G	G	G	G
rs673003	C/A	chr13:35938101		A	C	A	C	A	C	C	C	C	C	C	C
rs673481	A/G	chr13:35938256		G	A	G	A	G	A	A	A	A	A	A	A
rs2860128	C/T	chr13:35939052		T	C	T	C	T	C	C	C	C	C	C	C
rs1832462	A/T	chr13:35939158		T	A	T	A	T	A	A	A	A	A	A	A
rs9315340	C/T	chr13:35942176		T	C	T	C	T	C	C	C	C	C	C	C

Table S2 Continued

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				I-2*		II-3*		III-2*		I-1		II-1		II-5		
				1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	1†	2†	
rs2105174	C/T	chr13:35946029		T	C	T	C	T	C		C	C	C	C	C	C
rs2265209	G/C	chr13:35948106		C	G	C	G	C	G		G	G	G	G	G	G
rs1416195	G/A	chr13:35949103		A	G	A	G	A	G		G	G	G	G	G	G
rs1197852	G/A	chr13:35950999		A	G	A	G	A	G		G	G	G	G	G	G
rs11074746	A/G	chr16:26094220	16p12.1	A	G	A	G	A	A		G	G	G	G	G	G
rs11074747	G/A	chr16:26094256		G	A	G	A	G	G		A	A	A	A	A	A
rs4787348	G/A	chr16:26094599		A	G	A	G	A	G		G	G	G	G	G	G
rs7188538	A/T	chr16:26094836		A	T	A	T	A	A		T	T	T	T	T	T
rs28498170	T/C	chr16:26096274		C	T	C	T	C	T		T	T	T	T	T	T
rs7199218	T/C	chr16:26098443		T	C	T	C	T	T		C	C	C	C	C	C
rs11074748	G/A	chr16:26098605		G	A	G	A	G	G		A	A	A	A	A	A
rs4332750	G/A	chr16:26099795		G	A	G	A	G	G		A	A	A	A	A	A
rs4520841	C/T	chr16:26100115		C	T	C	T	C	C		T	T	T	T	T	T
rs7193213	C/A	chr16:26100799		C	A	C	A	C	C		A	A	A	A	A	A
rs11074749	T/G	chr16:26100941		T	G	T	G	T	T		G	G	G	G	G	G
rs10852294	G/T	chr16:26101006		G	T	G	T	G	G		T	T	T	T	T	T
rs6497915	G/C	chr16:26101910		G	C	G	C	G	G		C	C	C	C	C	C
rs7200939	G/A	chr16:26102301		G	A	G	A	G	G		A	A	A	A	A	A

Ref., reference. §Chromosome positions are based on NCBI build 37/UCSC hg19. \* represent affected individuals from our study. 1† and 2† represent the two chromosomes in diploid. Haplotype used to determine the core linkage region containing at least 10 consecutive SNPs was highlighted with yellow.