Supplementary

Table S1 Basic information of the 29 selected SNP sites

SNP	CHR*	Gene Name	Position	MAF# (Gene pool)	
rs4757139	11	ARNTL	13300456	C	0.423
rs4757142	11	ARNTL	13325695	A	0.416
rs4757145	11	ARNTL	13331324	G	0.435
rs1026071	11	ARNTL	13364712	G	0.488
rs10832020	11	ARNTL	13321343	C	0.313
rs10832022	11	ARNTL	13339272	G	0.445
rs10832027	11	ARNTL	13357183	A	0.399
rs10832030	11	ARNTL	13399791	G	0.490
rs11022762	11	ARNTL	13335926	C	0.392
rs11022765	11	ARNTL	13345115	A	0.373
rs11894491	2	PER2	239198325	A	0.341
rs1868049	11	ARNTL	13383682	C	0.454
rs1972874	2	PER2	239178402	C	0.315
rs2253820	17	PER1	8048169	C	0.310
rs2292910	11	CRY2	45903613	C	0.325
rs2585405	17	PER1	8046772	C	0.440
rs2640908	1	PER3	7889941	T	0.486
rs34862781	11	ARNTL	13305263	A	0.339
rs36124720	2	PER2	239155971	G	0.361
rs3736544	4	CLOCK	56309992	A	0.334
rs3789327	11	ARNTL	13385316	G	0.332
rs4757151	11	ARNTL	13392213	G	0.399
rs55794336	12	CRY1	107445977	G	0.423
rs5863	4	CLOCK	56296907	A	0.404
rs6486116	11	ARNTL	13319838	A	0.490
rs6798	11	CRY2	45904477	C	0.452
rs707463	1	PER3	7850062	T	0.450
rs7950226	11	ARNTL	13318139	G	0.392

CHR, chromosome; MAF, minor allele frequency.

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Table S2 Primer sequences of SNPs detected

SNP	F (forward)	R (reverse)
rs4757139	ATCCCAGAGAGCTTCCCGTTTG	GGCCGGCGAGAACTTGACA
rs4757142	GCCTTGGGAATGACAAGCAGAG	TCTAACGGCTTCTCCCCACCTC
rs4757145	GCCACAACGTGCCATGTGTTAC	CCCTGTAAGCCTCCCCAGTGTT
rs1026071	CCAACATCACACGGCTGGTAAA	TTGGAGTCCCAGGAACCATCAA
rs10832020	GGTGGAGTTGTCTTGGGGACCT	ACCTGAAGGCCCAGCTCTCCTC
rs10832022	CCCTCTCCAAGTTTTGTGCCTTGTA	GCAGCCAGGGGGTAGACAGTTT
rs10832027	TGTGGGCAAAACCCTGCTTAAA	GGCACCGCTACACCAGAAAACA
rs10832030	TTTCCCTGCTGGAATGCCTTTT	GAACAGTGGGGTGGGTCCTCTT
rs11022762	TCTCTGTTCCAAGTGCCAGCATA	GGAGACACAACAGGCGTCACAA
rs11022765	AGAGGTGGAGGACCTAAGTGGCTA	GATGATACCATTGCACTCCAGC
rs11894491	CCGGCAGCTACCAAGTGACCTT	CCGTTGTAAGGCGTCCCTTTCT
rs1868049	CTGGGAATGGTGTTGGGAATTG	GCAGCTGCCCCAAATGATACAG
rs1972874	AGTGCACTGCTGCAAACACACC	TGGCCTCCACAGCTTTCTTTGT
rs2253820	AGGTCTCGGAAGCGGCTGA	CTACCGTCCAGTGGGGCTGAC
rs2292910	CCTGGTTTCTCTGGCCACACTC	CTCTGGGTCAAACCTCCCACCT
rs2585405	GCAGCAGATTGAGCTGGAGTGG	TGGCCTTGGTGCTCCCTAACTA
rs2640908	GCAACAATGGCAGTGAGAGCAGT	GTGACCCCGTGGACAGAACAGT
rs34862781	GCTGACAGCAATTGGGAACCAG	ATCCAGGTCCGCATCCCTTATG
rs36124720	TTTCAACTGGACATTCACAGCAG	CACTTGCAGGCCTCTCACACAC
rs3736544	TGTGCTGAGTTGTGCCAATGTGT	GGGTTGAATTTTGGTTCCGTTCA
rs3789327	CCTCAGCAATGCAAAATGGACA	TACCAGCACCACAGAGCCACAG
rs4757151	TGAAGTCCTGCCACAATGAGTCC	GGGCTGCATGGTCACGTTAAAT
rs55794336	CCCAAGTTTGCACGAGGTTTTTCTA	TGCCCTTGTGGTAAAGAGGTACTGTC
rs5863	GCCAACATTTCAGGGCACATTT	TGTGGACACCAAAAGAGACCAATG
rs6486116	TGGGTTCTGCACAGCTCATTG	GTCCAGGCCAAGGGAGCA
rs6798	CCTCCGCCTACTTCTCCACCAT	TCTACCCTGCCCTTCCCTCTTG
rs707463	TGTCATCCCTGCTTGCTTCTAGC	CCTGGGGAAAAAATGGGAAAGA
rs7950226	CTGAAGGGGTCTGGGGAATCAC	GGGCCACATTCACAAGGGAAAT

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Table S3 Hardy-Weinberg equilibrium (HWE) analysis

CHR	SNP	A1	A2	GENO[4]	O[1](HET)	E[2](HET)[3]	P
1	rs707463	T	C	28/54/48	0.4154	0.4882	0.1052
1	rs2640908	T	C	37/59/34	0.4538	0.4997	0.2959
2	rs36124720	G	C	14/46/70	0.3538	0.4072	0.1349
2	rs1972874	C	G	17/58/55	0.4462	0.4573	0.8478
2	rs11894491	A	G	19/56/55	0.4308	0.4617	0.4502
4	rs5863	A	G	23/68/39	0.5231	0.4924	0.593
4	rs3736544	A	G	18/64/48	0.4923	0.4734	0.7138
11	rs4757139	C	T	26/73/31	0.5615	0.4993	0.2179
11	rs34862781	A	G	10/50/70	0.3846	0.3935	0.824
11	rs7950226	G	A	14/64/52	0.4923	0.4573	0.4466
11	rs6486116	C	A	31/64/35	0.4923	0.4995	0.8618
11	rs10832020	C	T	8/60/62	0.4615	0.4137	0.2873
11	rs4757142	A	G	25/59/46	0.4538	0.487	0.4718
11	rs4757145	G	A	17/66/47	0.5077	0.4734	0.4629
11	rs11022762	C	T	16/56/58	0.4308	0.4478	0.6959
11	rs10832022	G	A	35/58/37	0.4462	0.4999	0.2225
11	rs11022765	A	C	26/59/45	0.4538	0.4893	0.4728
11	rs10832027	A	G	14/65/51	0.5	0.4595	0.4442
11	rs1026071	G	A	24/69/37	0.5308	0.495	0.4803
11	rs1868049	T	C	34/64/32	0.4923	0.4999	0.8618
11	rs3789327	G	A	15/57/58	0.4385	0.4453	0.8454
11	rs4757151	G	A	30/56/44	0.4308	0.4942	0.1562
11	rs10832030	A	G	33/58/39	0.4462	0.4989	0.2231
11	rs2292910	C	A	8/64/58	0.4923	0.426	0.1002
11	rs6798	C	T	25/77/28	0.5923	0.4997	0.05283
12	rs55794336	G	A	35/49/46	0.3769	0.4964	0.007713
17	rs2585405	G	C	36/59/35	0.4538	0.5	0.2958
17	rs2253820	C	T	12/54/64	0.4154	0.42	1

[1]O: observed frequency; [2]E: expected frequency; [3]HET: heterozygosity; [4]GENO: genotype.

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