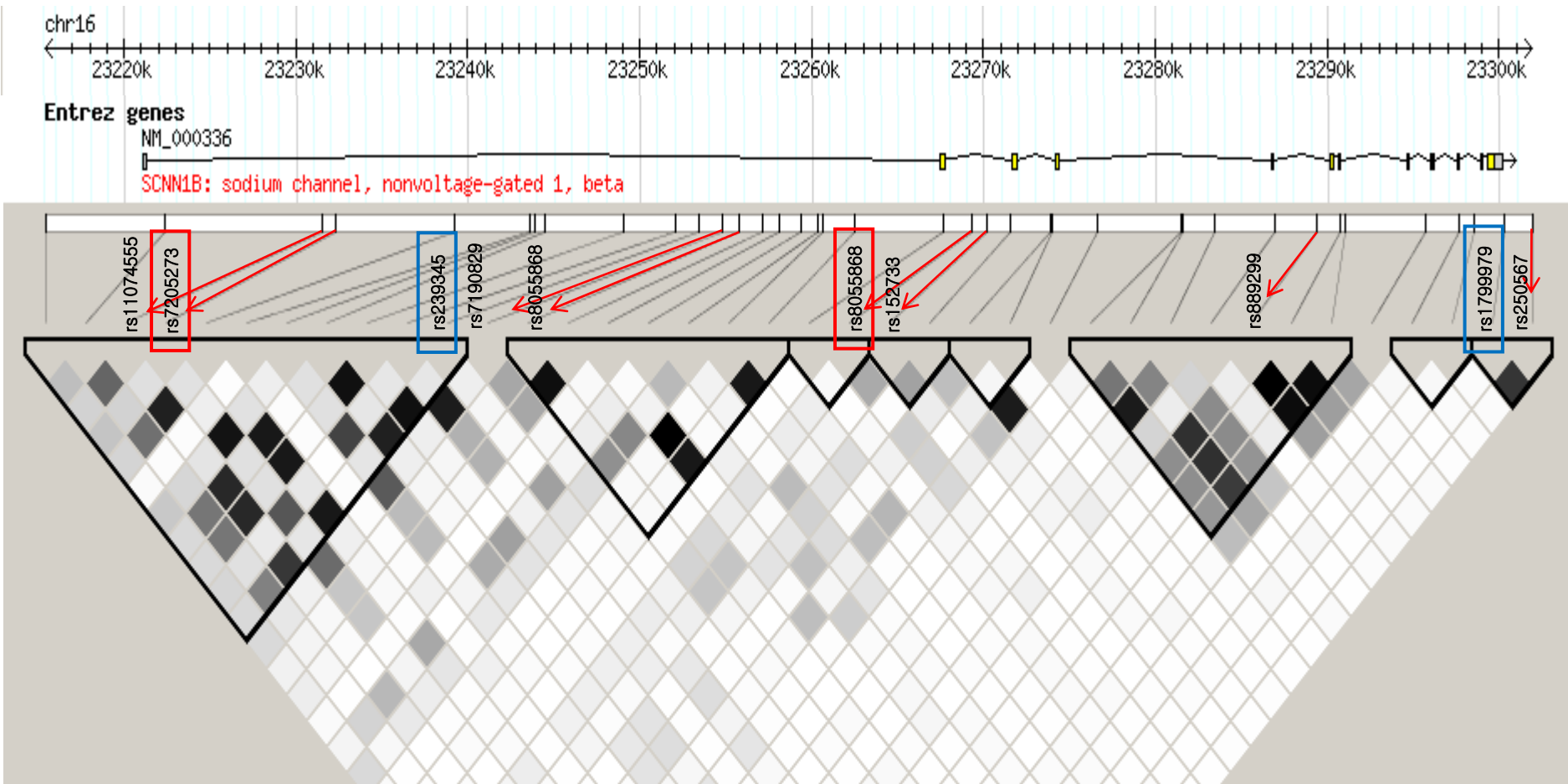
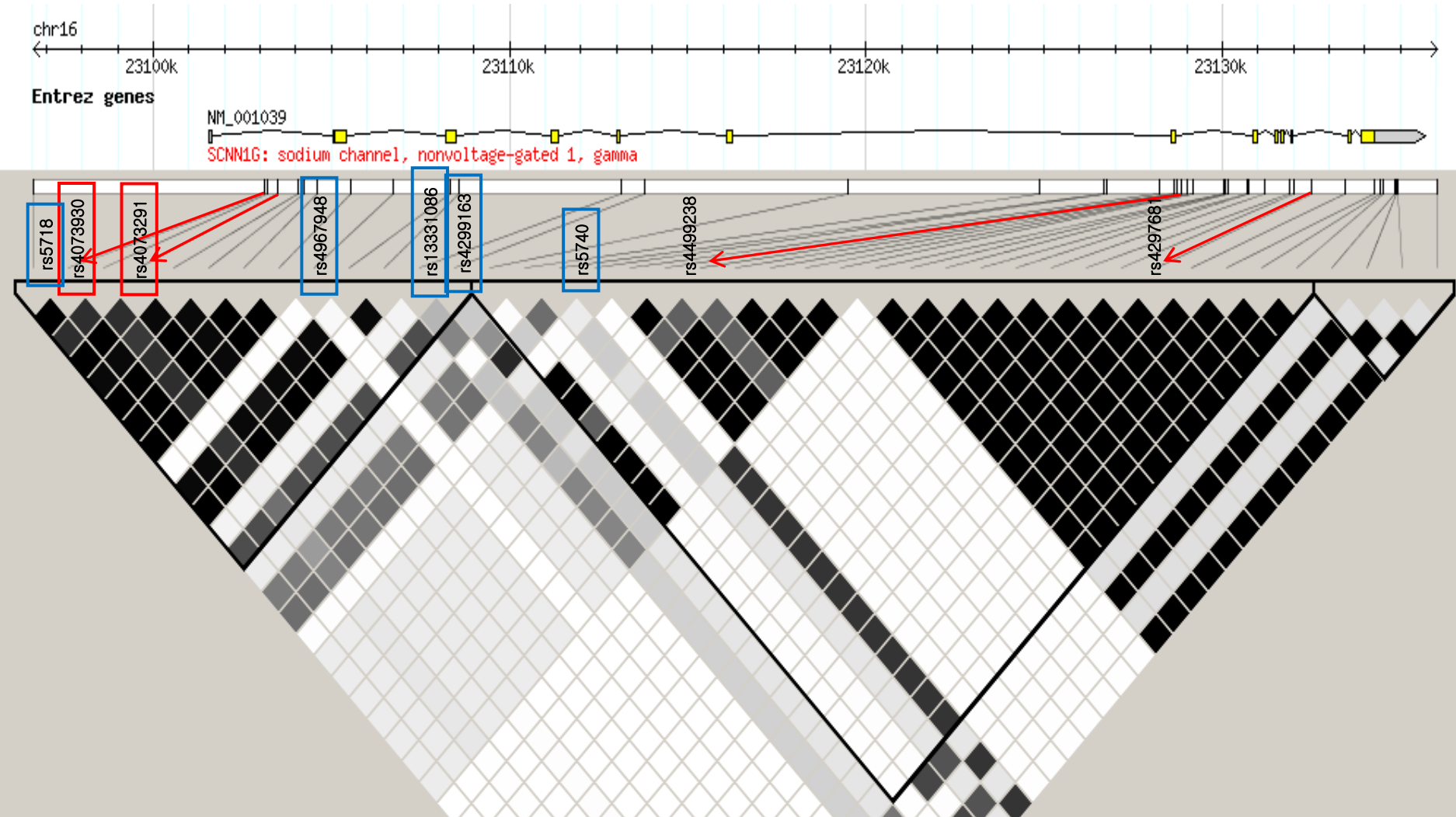


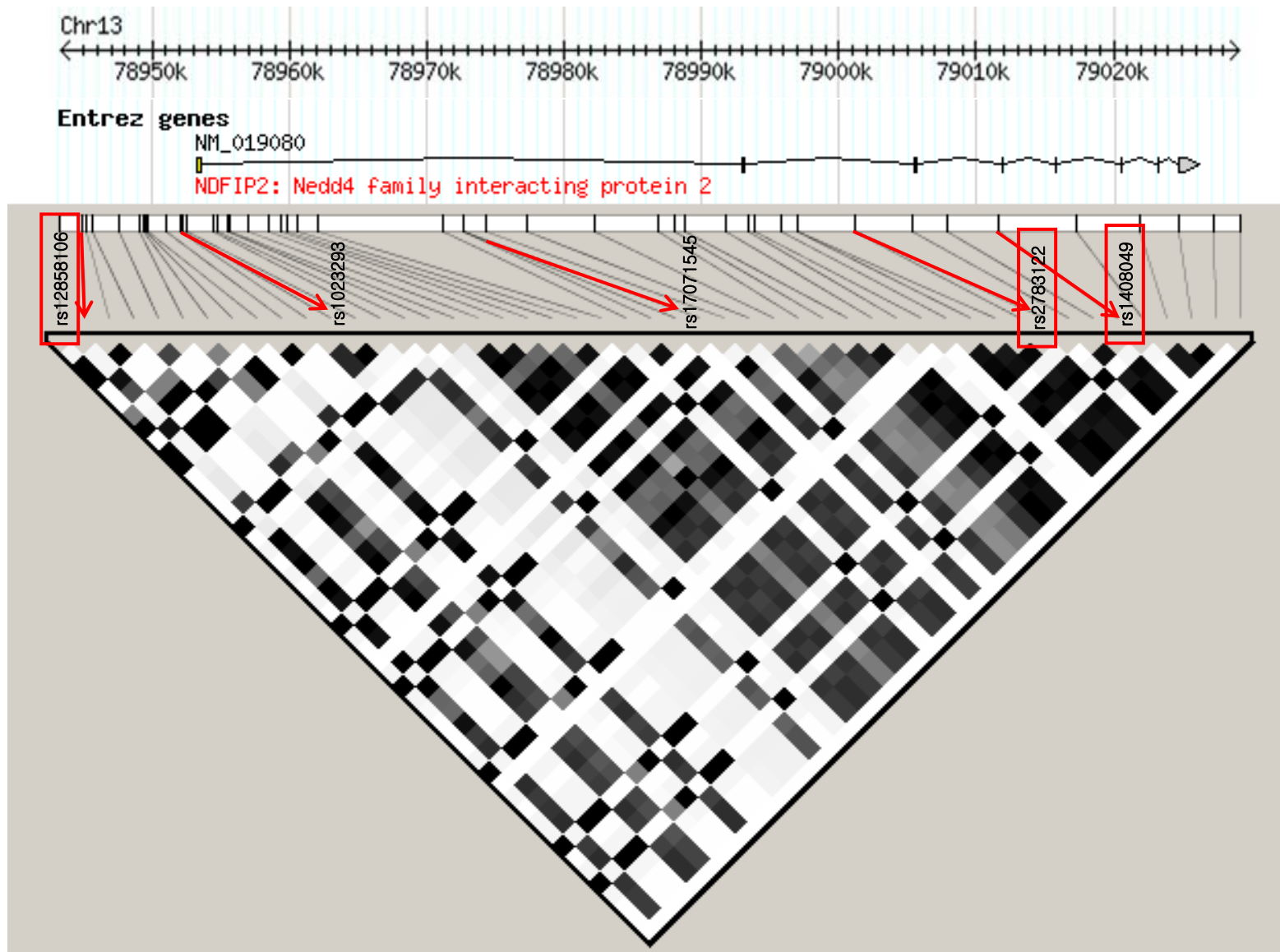
Supplemental Figure 1 B



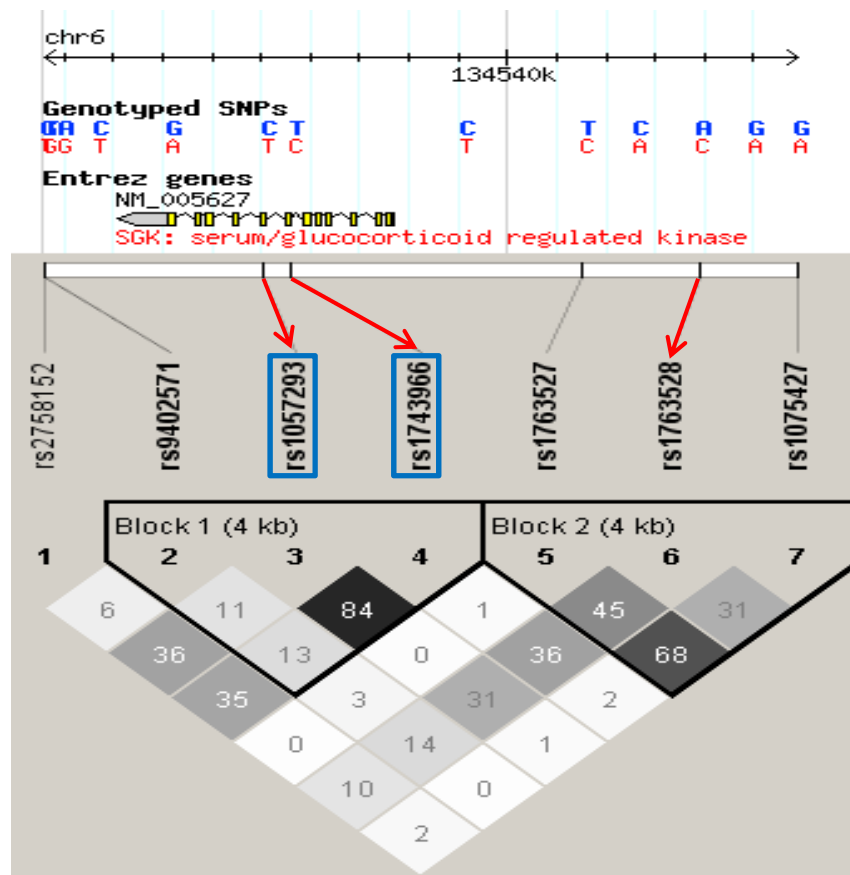
Supplemental Figure 1 C



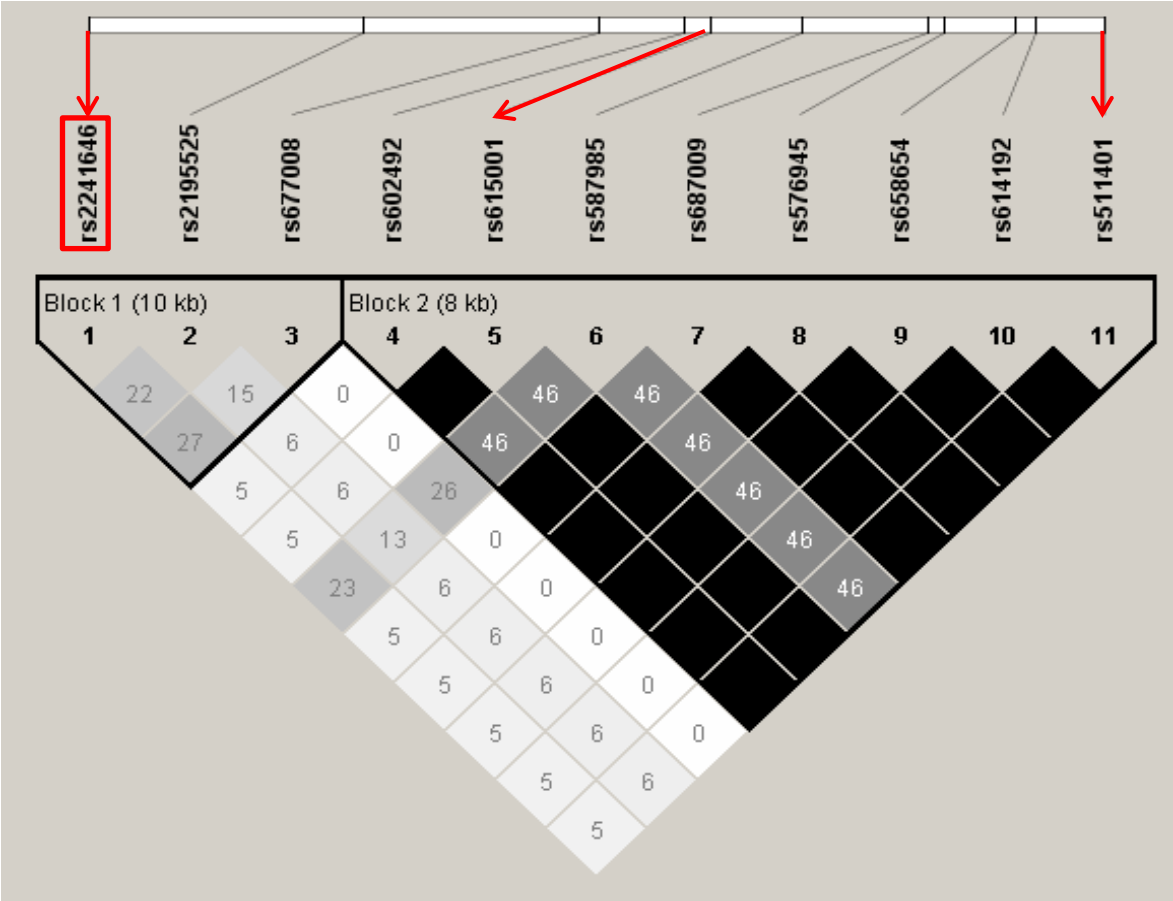
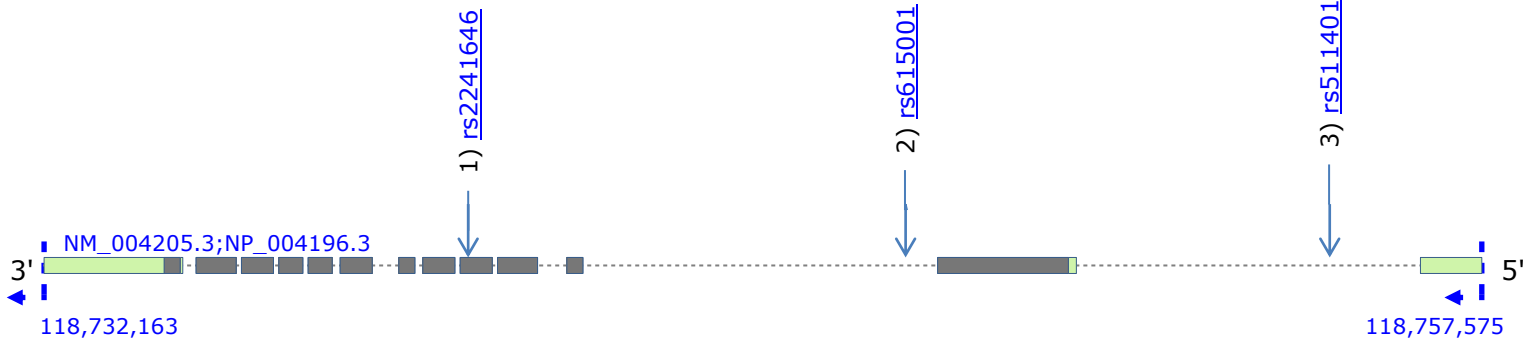
Supplemental Figure 1 D



Supplemental Figure 1 E



Supplemental Figure 1 F



Supplemental Figure 1 Legends

Supplemental Figure 1. Overview of the physical and genetic structure of the genes. The lower panel gives an overview of the linkage disequilibrium structure as generated by Haploview from the International HapMap data of Chinese and Japanese.

A. The LD blocks of *SCNN1A* and SNPs. Red arrows indicate the tested SNPs in this study. Red box indicates the positive result of association with DBP in this study, and blue box is previous reports of significant association with SBP and hypertension.

B. The LD blocks of *SCNN1B* and SNPs. Red arrows indicate the tested SNPs in this study. Red boxes indicate the positive results of association with SBP and hypertension in this study, and blue box is previous reports of significant association with DBP or hypertension.

C. The LD blocks of *SCNN1G* and SNPs. Red arrows indicate the tested SNPs in this study. Red boxes indicate the positive results of association with DBP and hypertension in this study, and blue box is previous reports of significant association with SBP or hypertension.

D. The LD blocks of *NDFIP2* and SNPs. Red arrows indicate the tested SNPs in this study. Red boxes indicate the positive results of association with SBP and DBP in this study. There is no previous result of significant association with BP or hypertension.

E. The LD blocks of *SGK1* and SNPs. Red arrows indicate the tested SNPs in this study, but there is no association SNPs with BP or hypertension. Blue boxes are previous reports of significant association with SBP or DBP.

F. The LD blocks of *USP2* and SNPs. Red arrows indicate the tested SNPs in this study. Red boxes indicate the positive results of association with SBP in this study. There is no previous result of significant association with BP or hypertension.

Supplemental Table 1. Information of Genes and their SNPs

Gene Symbol (gene name, location)	No.	SNP	Positon, bp	Minor allele	MAF	Region
<i>SCNN1A</i> (sodium channel, nonvoltage-gated 1 alpha, 12p13)						
	1	rs4149623	6320839	G	0.085	3' downstream
	2	rs4149570	6321851	A	0.428	3' downstream
	3	rs13306613	6335070	T	0.047	Intron 5
	4	rs7956915	6340521	T	0.369	Intron 4
	5	rs11064153	6358711	A	0.360	5' upstream
<i>SCNN1B</i> (sodium channel, nonvoltage-gated 1, beta, 16p12.2-p12.1)						
	1	rs11074555	23231527	G	0.250	Intron 1
	2	rs7205273	23232350	A	0.272	Intron 1
	3	rs7190829	23254805	G	0.195	Intron 1
	4	rs8055868	23255752	A	0.193	Intron 1
	5	rs8044970	23269331	G	0.435	Intron 2
	6	rs152733	23270179	G	0.424	Intron 2
	7	rs889299	23289415	A	0.300	Intron 5
	8	rs12596831	23292758	T	0.109	Intron 7
	9	rs250567	23301900	A	0.141	3' downstream
<i>SCNN1G</i> (sodium channel, nonvoltage-gated 1, gamma, 16p12)						
	1	rs4480807	23085267	C	0.140	5' upstream
	2	rs4073930	23103147	C	0.133	Intron 1
	3	rs4073291	23103494	G	0.137	Intron 1
	4	rs4499238	23128880	A	0.086	Intron 7
	5	rs4297681	23132542	A	0.059	Intron 11
	6	rs4511539	23144982	G	0.056	3' downstream
<i>NEED4L</i> (neural precursor cell expressod, developmentally down-reulated 4-like, 18q21)						
	1	rs4302128	53875316	A	0.017	Intron 1
	2	rs1787777	53926341	G	0.084	Intron 1
	3	rs17693689	53927110	G	0.034	Intron 1
	4	rs483540	53927525	G	0.045	Intron 1
	5	rs559636	53944959	A	0.091	Intron 1
	6	rs4940646	53945237	C	0.305	Intron 1
	7	rs563283	53945325	C	0.215	Intron 1
	8	rs4941333	53951227	G	0.159	Intron 1
	9	rs12965133	53954741	C	0.157	Intron 1
	10	rs572794	53957327	A	0.090	Intron 1
	11	rs520210	53959071	A	0.367	Intron 1
	12	rs12959070	53963968	A	0.128	Intron 1
	13	rs12960965	53973820	G	0.229	Intron 1
	14	rs4941349	53982010	C	0.402	Intron 1
	15	rs486117	53982695	G	0.182	Intron 1
	16	rs8094453	53990001	C	0.410	Intron 2
	17	rs1573388	53994878	G	0.407	Intron 2
	18	rs7243662	54010852	C	0.309	Intron 2
	19	rs4941364	54014157	G	0.408	Intron 2
	20	rs525839	54028916	C	0.458	Intron 2
	21	rs292456	54039159	A	0.207	Intron 2
	22	rs292455	54039207	C	0.281	Intron 2
	23	rs292449	54046061	C	0.209	Intron 2
	24	rs182383	54046735	A	0.281	Intron 2
	25	rs192659	54046768	C	0.424	Intron 2
	26	rs292448	54047200	A	0.274	Intron 2
	27	rs17064502	54049068	G	0.375	Intron 2

Supplemental Table 1. Continued

Gene Symbol (gene name, location)	No.	SNP	Position, bp	Minor allele	MAF	Region
<i>NEDD4L</i> (neural precursor cell expressod, developmentally down-reulated 4-like, 18q21)						
	29	rs158862	54054701	T	0.487	Intron 2
	30	rs17064520	54060610	T	0.462	Intron 2
	31	rs4941375	54095115	G	0.282	Intron 5
	32	rs12605388	54096089	G	0.357	Intron 5
	33	rs7229171	54097967	G	0.074	Intron 5
	34	rs11152064	54105061	C	0.284	Intron 5
	35	rs8093609	54105116	G	0.074	Intron 5
	36	rs10871753	54107845	C	0.370	Intron 5
	37	rs9944842	54110827	C	0.348	Intron 5
	38	rs9955824	54111557	A	0.346	Intron 5
	39	rs9955907	54111653	T	0.077	Intron 5
	40	rs8093462	54135129	G	0.090	Intron 6
	41	rs4940663	54135460	A	0.020	Intron 6
	42	rs7228980	54136429	A	0.097	Intron 6
	43	rs7229644	54136818	C	0.388	Intron 6
	44	rs7243164	54139274	T	0.111	Intron 6
	45	rs8087052	54140037	C	0.390	Intron 6
	46	rs12606138	54144924	G	0.095	Intron 9
	47	rs12051934	54154983	A	0.321	Intron 12
	48	rs3865418	54155144	A	0.320	intron 12
	49	rs9962106	54155894	T	0.303	Intron 12
	50	rs3865419	54156174	G	0.322	Intron 12
	51	rs9947412	54158134	G	0.018	Intron 12
	52	rs4058288	54158272	T	0.320	Intron 12
	53	rs12454023	54160584	G	0.315	Intron 14
	54	rs12457509	54165956	A	0.270	Intron 15
	55	rs10513914	54179311	C	0.268	Intron 18
	56	rs3744865	54185167	A	0.265	Intron 20
	57	rs8098336	54202115	G	0.024	Intron 24
	58	rs4940679	54202520	G	0.348	Intron 24
	59	rs7242486	54202587	C	0.348	Intron 24
	60	rs2043265	54206752	T	0.043	Intron 26
<i>NDFIP2</i> (Nedd4 family interaction protein 2, 13q31.1)						
	1	rs12858106	78944997	A	0.226	5' upstream
	2	rs1023293	78952421	G	0.192	5' near gene
	3	rs17071545	78988115	A	0.113	Intron 1
	4	rs2783122	79001279	G	0.226	Intron 2
	5	rs1408049	79011653	G	0.226	Intron 3
<i>SGK1</i> (serum/glucocorticoid regulated kinase 1, 6q23)						
	1	rs1057293	134535090	A	0.170	Exon 8 (Asp/Asp)
	2	rs1743966	134535640	G	0.210	Intron 6
	3	rs1763528	134543920	C	0.397	5' upstream
<i>USP2</i> (ubiquitin specific peptidase 2, 11q23.3)						
	1	rs2241646	118735174	C	0.158	Exon 5 (Tyr/Tyr)
	2	rs615001	118747487	T	0.077	Intron 2
	3	rs511401	118755270	C	0.077	Intron 1

Supplemental Table 2. Linear regression analyses between polymorphisms of seven genes and blood pressure in supine position, controlling for age, sex, BMI and cohort as covariates

Gene	SNP	Number	Genotypes			Additive	Dominant	Recessive
			BP	A1/A1	A1/A2	A2/A2	<i>p</i>	<i>p</i>
<i>SCNN1A</i>	rs4149623	n	61	1143	6340			
		SBP	114.7 ± 16.25	115.8 ± 17.61	115.6 ± 17.20	0.6437	0.7146	0.5871
		DBP	75.8 ± 12.11	73.9 ± 11.15	74.3 ± 11.28	0.4870	0.2934	0.2175
	rs4149570	n	1386	3666	2479			
		SBP	115.9 ± 17.21	115.9 ± 17.54	115.1 ± 16.84	0.1054	0.0532	0.5575
		DBP	74.5 ± 11.19	74.2 ± 11.42	74.0 ± 11.11	0.2245	0.3983	0.2401
	rs13306613	n	19	670	6861			
		SBP	116.0 ± 14.28	115.2 ± 18.18	115.7 ± 17.16	0.2536	0.2828	0.5074
		DBP	74.9 ± 10.69	73.5 ± 11.78	74.3 ± 11.22	0.0474	0.0416	0.8676
	rs7956915	n	1019	3535	2994			
		SBP	115.7 ± 16.79	115.5 ± 17.27	115.8 ± 17.37	0.6961	0.4222	0.7109
		DBP	74.4 ± 10.98	74.1 ± 11.31	74.2 ± 11.33	0.7108	0.9518	0.4095
rs11064153	n	983	3474	3093				
	SBP	116.0 ± 17.87	115.6 ± 17.32	115.6 ± 16.97	0.3541	0.3980	0.5247	
	DBP	74.6 ± 11.96	74.2 ± 11.28	74.2 ± 11.03	0.1922	0.3598	0.1952	
<i>SCNN1B</i>	rs11074555	n	490	2812	4248			
		SBP	114.7 ± 17.47	115.7 ± 17.5	115.7 ± 17.05	0.8336	0.8258	0.3329
		DBP	74.2 ± 10.82	74.1 ± 11.36	74.3 ± 11.26	0.9360	0.8208	0.7986
	rs7205273	n	576	2986	3988			
		SBP	114.8 ± 17.04	115.6 ± 16.90	115.8 ± 17.53	0.0438	0.0836	0.1208
		DBP	73.6 ± 11.35	74.3 ± 10.99	74.2 ± 11.47	0.1897	0.4443	0.0916
	rs7190829	n	297	2365	4887			
		SBP	116.0 ± 15.86	115.4 ± 16.95	115.8 ± 17.47	0.2856	0.2433	0.8223
		DBP	74.5 ± 10.40	74.1 ± 11.16	74.3 ± 11.38	0.4976	0.4261	0.9933
	rs8055868	n	299	2333	4913			
		SBP	116.4 ± 15.39	115.3 ± 17.09	115.8 ± 17.42	0.4757	0.3293	0.7449
		DBP	75.0 ± 10.59	74.0 ± 11.08	74.3 ± 11.40	0.7505	0.4907	0.4434
	rs8044970	n	1468	3632	2439			
		SBP	115.2 ± 17.16	115.5 ± 17.03	116.1 ± 17.63	0.0188	0.0133	0.2012
		DBP	73.8 ± 11.07	74.3 ± 11.25	74.4 ± 11.42	0.0843	0.2415	0.0884
	rs152733	n	1316	3761	2473			
		SBP	116.1 ± 16.79	115.6 ± 17.54	115.5 ± 17.03	0.4627	0.5696	0.5251
		DBP	74.3 ± 11.20	74.2 ± 11.44	74.3 ± 11.05	0.6559	0.7191	0.7132
	rs889299	n	701	3095	3749			
		SBP	115.6 ± 16.91	115.9 ± 17.65	115.4 ± 16.97	0.7618	0.7440	0.9048
		DBP	74.1 ± 11.14	74.4 ± 11.36	74.1 ± 11.22	0.8596	0.7588	0.8961
rs12596831	n	103	1427	6019				
	SBP	116.5 ± 15.92	115.6 ± 17.05	115.7 ± 17.32	0.4152	0.5463	0.3053	
	DBP	75.2 ± 11.89	74.4 ± 11.36	74.2 ± 11.24	0.1010	0.1507	0.1965	
rs250567	n	142	1857	5550				
	SBP	115.6 ± 15.87	115.7 ± 16.74	115.7 ± 17.45	0.9608	0.9107	0.8522	
	DBP	74.3 ± 10.33	74.6 ± 10.98	74.1 ± 11.39	0.3126	0.2918	0.8228	

Supplemental Table 2. Continued

Gene	SNP	Number BP	Genotypes			Additive	Dominant	Recessive	
			A1/A1	A1/A2	A2/A2	<i>p</i>	<i>p</i>	<i>p</i>	
<i>SCNN1G</i>	rs4480807	n	162	1778	5609				
		SBP	117.0 ± 18.41	116.0 ± 17.28	115.5 ± 17.20	0.2971	0.3649	0.4120	
		DBP	75.0 ± 12.82	74.2 ± 11.13	74.2 ± 11.27	0.8443	0.9368	0.3638	
	rs4073930	n	153	1697	5686				
		SBP	117.4 ± 18.21	115.7 ± 17.40	115.6 ± 17.18	0.4282	0.6399	0.1936	
		DBP	75.9 ± 12.13	74.0 ± 11.48	74.2 ± 11.17	0.7714	0.7284	0.0394	
	rs4073291	n	153	1765	5632				
		SBP	117.4 ± 18.21	115.7 ± 17.35	115.6 ± 17.19	0.4568	0.6764	0.1952	
		DBP	75.9 ± 12.13	74.0 ± 11.41	74.2 ± 11.20	0.7172	0.7974	0.0402	
	rs4499238	n	55	1132	6172				
		SBP	114.5 ± 18.32	115.7 ± 16.83	115.6 ± 17.37	0.4196	0.5670	0.2123	
		DBP	74.3 ± 10.94	74.0 ± 10.82	74.2 ± 11.38	0.4014	0.4011	0.8008	
	rs4297681	n	35	819	6695				
		SBP	115.2 ± 15.70	116.0 ± 17.41	115.6 ± 17.24	0.6602	0.6892	0.7547	
		DBP	75.6 ± 10.72	74.3 ± 11.39	74.2 ± 11.26	0.7203	0.8928	0.2523	
	rs4511539	n	27	800	6703				
		SBP	113.9 ± 14.99	116.1 ± 17.48	115.6 ± 17.24	0.7699	0.7568	0.9890	
		DBP	74.9 ± 10.39	74.3 ± 11.35	74.2 ± 11.27	0.8094	0.9010	0.5006	
	<i>NEDD4L</i>	rs4302128	n	8	251	7272			
			SBP	109.2 ± 11.83	116.0 ± 18.53	115.6 ± 17.21	0.9811	0.8119	0.2330
		DBP	70.4 ± 10.23	74.3 ± 11.56	74.2 ± 11.27	0.9107	0.9780	0.4177	
rs1787777		n	55	1161	6330				
		SBP	115.5 ± 18.36	115.9 ± 17.65	115.6 ± 17.17	0.7097	0.6855	0.9763	
		DBP	73.2 ± 9.77	74.0 ± 11.70	74.3 ± 11.21	0.4612	0.4802	0.7223	
rs17693689		n	10	508	7025				
		SBP	121.0 ± 23.08	115.8 ± 17.86	115.6 ± 17.19	0.8216	0.9182	0.3689	
		DBP	74.4 ± 9.44	73.6 ± 11.53	74.3 ± 11.26	0.1828	0.1746	0.9251	
rs483540		n	13	653	6884				
		SBP	103.2 ± 12.63	116.3 ± 17.21	115.6 ± 17.25	0.7489	0.5368	0.0488	
		DBP	68.8 ± 11.71	74.4 ± 11.49	74.2 ± 11.25	0.9962	0.8795	0.2844	
rs559636		n	58	1235	6257				
		SBP	117.5 ± 18.72	115.8 ± 16.87	115.6 ± 17.31	0.9561	0.9711	0.9222	
		DBP	74.5 ± 9.85	74.7 ± 11.18	74.1 ± 11.30	0.1838	0.1443	0.8671	
rs4940646		n	712	3168	3667				
		SBP	116.0 ± 16.87	115.6 ± 17.36	115.7 ± 17.22	0.7747	0.9559	0.5855	
		DBP	74.46 ± 11.34	74.17 ± 11.24	74.19 ± 11.28	0.7135	0.9484	0.4776	
rs563283		n	361	2526	4663				
		SBP	116.4 ± 17.30	115.4 ± 17.30	115.8 ± 17.21	0.7940	0.7605	0.1590	
	DBP	74.2 ± 11.68	74.1 ± 11.30	74.3 ± 11.22	0.6412	0.4747	0.7240		
rs4941333	n	193	2006	5348					
	SBP	113.1 ± 16.54	115.6 ± 16.93	115.8 ± 17.39	0.2436	0.5290	0.0445		
	DBP	73.1 ± 10.90	74.3 ± 11.24	74.2 ± 11.30	0.7014	0.9268	0.1282		
rs12965133	n	190	1960	5363					
	SBP	113.2 ± 16.40	115.6 ± 16.97	115.8 ± 17.37	0.2447	0.4705	0.0825		
	DBP	73.2 ± 10.89	74.2 ± 11.22	74.3 ± 11.29	0.6107	0.9118	0.1769		
rs572794	n	58	1221	6267					
	SBP	117.5 ± 18.72	115.7 ± 16.85	115.6 ± 17.3	0.9617	0.9402	0.9192		
	DBP	74.5 ± 9.85	74.6 ± 11.16	74.1 ± 11.3	0.2432	0.1982	0.8698		
rs520210	n	1002	3536	3011					
	SBP	115.1 ± 16.67	115.6 ± 17.36	115.9 ± 17.31	0.4468	0.6190	0.4212		
	DBP	73.9 ± 11.32	74.2 ± 11.30	74.3 ± 11.22	0.4846	0.7155	0.3832		

Supplemental Table 2. Continued

Gene	SNP	Number BP	Genotypes			Additive	Dominant	Recessive
			A1/A1	A1/A2	A2/A2	p	p	p
<i>NEED4L</i>	rs12959070	n	99	1689	5585			
		SBP	115.1 ± 17.57	115.3 ± 16.68	115.8 ± 17.44	0.5101	0.4008	0.6446
		DBP	75.2 ± 12.05	74.0 ± 11.24	74.3 ± 11.28	0.7223	0.4164	0.1126
	rs12960965	n	419	2621	4506			
		SBP	114.1 ± 16.26	115.6 ± 17.13	115.8 ± 17.39	0.1200	0.3396	0.0430
		DBP	73.7 ± 10.98	74.2 ± 11.19	74.3 ± 11.33	0.4412	0.5735	0.4181
	rs4941349	n	1236	3585	2729			
		SBP	115.7 ± 17.56	115.9 ± 17.27	115.3 ± 17.07	0.5635	0.3453	0.8913
		DBP	74.5 ± 11.33	74.3 ± 11.18	73.9 ± 11.36	0.1761	0.2032	0.3697
	rs486117	n	252	2248	5039			
		SBP	116.4 ± 18.20	115.8 ± 17.43	115.5 ± 17.08	0.4739	0.5748	0.4789
		DBP	74.3 ± 12.28	74.2 ± 11.33	74.2 ± 11.17	0.9844	0.9262	0.7625
	rs8094453	n	1293	3596	2661			
		SBP	114.6 ± 16.25	115.9 ± 17.41	115.9 ± 17.48	0.2954	0.8598	0.0851
		DBP	73.8 ± 11.08	74.2 ± 11.23	74.5 ± 11.41	0.1863	0.1842	0.4394
	rs1573388	n	1290	3486	2681			
		SBP	114.7 ± 16.25	115.9 ± 17.45	115.8 ± 17.46	0.3069	0.8503	0.0957
		DBP	73.9 ± 11.04	74.2 ± 11.26	74.5 ± 11.40	0.2581	0.2436	0.5291
	rs7243662	n	722	3193	3633			
		SBP	115.6 ± 17.30	115.9 ± 17.57	115.4 ± 16.94	0.5617	0.3621	0.7971
		DBP	74.1 ± 11.59	74.2 ± 11.34	74.2 ± 11.13	0.5469	0.5697	0.7081
	rs4941364	n	1265	3584	2701			
		SBP	115.6 ± 17.47	116.0 ± 17.55	115.3 ± 16.72	0.6717	0.3331	0.6540
		DBP	73.9 ± 11.68	74.4 ± 11.32	74.1 ± 11.01	0.4510	0.9849	0.1655
	rs525839	n	1624	3683	2241			
		SBP	115.3 ± 16.23	115.9 ± 17.45	115.5 ± 17.61	0.8563	0.2997	0.4010
		DBP	74.2 ± 10.65	74.4 ± 11.45	73.8 ± 11.40	0.1150	0.0299	0.7551
	rs292456	n	317	2487	4737			
		SBP	113.8 ± 15.21	116.0 ± 17.47	115.6 ± 17.26	0.4076	0.9000	0.0398
		DBP	73.3 ± 9.97	74.5 ± 11.26	74.1 ± 11.36	0.9204	0.6657	0.1851
	rs292455	n	610	3033	3893			
		SBP	114.5 ± 16.59	115.8 ± 17.65	115.7 ± 17.02	0.1862	0.4106	0.1124
		DBP	73.6 ± 10.73	74.3 ± 11.31	74.2 ± 11.30	0.3076	0.5559	0.1903
	rs292449	n	322	2512	4716			
		SBP	114.2 ± 15.62	115.9 ± 17.30	115.6 ± 17.32	0.5290	0.9500	0.1020
		DBP	73.7 ± 10.20	74.5 ± 11.18	74.1 ± 11.38	0.8069	0.5297	0.4165
	rs182383	n	606	3049	3895			
		SBP	114.6 ± 16.56	115.8 ± 17.63	115.7 ± 17.04	0.1967	0.4346	0.1114
		DBP	73.7 ± 10.71	74.3 ± 11.33	74.2 ± 11.31	0.3529	0.5971	0.2273
	rs192659	n	1377	3606	2567			
		SBP	115.7 ± 17.11	115.8 ± 17.69	115.4 ± 16.68	0.5583	0.4276	0.9236
		DBP	74.0 ± 11.49	74.2 ± 11.42	74.3 ± 10.94	0.5793	0.7340	0.5515
	rs292448	n	578	3000	3971			
		SBP	114.8 ± 16.70	115.7 ± 17.55	115.7 ± 17.09	0.2464	0.3995	0.2391
		DBP	73.7 ± 10.76	74.3 ± 11.31	74.2 ± 11.31	0.4745	0.6785	0.3556
	rs17064502	n	1075	3500	2975			
		SBP	116.4 ± 17.29	115.7 ± 16.79	115.3 ± 17.75	0.0890	0.1119	0.2612
		DBP	74.8 ± 11.13	74.1 ± 11.15	74.0 ± 11.46	0.0826	0.2162	0.0916
	rs158869	n	136	1691	5723			
		SBP	114.3 ± 17.23	115.7 ± 17.68	115.7 ± 17.12	0.4505	0.5391	0.4631
		DBP	72.9 ± 10.78	74.7 ± 11.60	74.1 ± 11.18	0.6454	0.3790	0.2384

Supplemental Table 2. Continued

Gene	SNP	Number BP	Genotypes			Additive	Dominant	Recessive
			A1/A1	A1/A2	A2/A2	<i>p</i>	<i>p</i>	<i>p</i>
<i>NEDD4L</i>	rs158862	n	1791	3747	1964			
		SBP	115.4 ± 16.83	115.6 ± 17.28	115.9 ± 17.58	0.4253	0.4605	0.5745
	DBP	73.9 ± 11.18	74.2 ± 11.23	74.4 ± 11.46	0.2110	0.3964	0.2300	
	rs17064520	n	1623	3692	2235			
		SBP	116.5 ± 16.56	115.7 ± 17.25	115.0 ± 17.71	0.0170	0.0676	0.0360
	DBP	74.6 ± 10.93	74.2 ± 11.26	73.9 ± 11.52	0.1197	0.2643	0.1473	
	rs4941375	n	618	3003	3929			
		SBP	114.7 ± 17.28	115.8 ± 16.85	115.7 ± 17.54	0.7036	0.9028	0.5054
	DBP	73.6 ± 11.22	74.6 ± 11.23	74.0 ± 11.30	0.3343	0.0957	0.4350	
	rs12605388	n	975	3405	3168			
		SBP	115.1 ± 16.95	115.7 ± 16.98	115.8 ± 17.62	0.3645	0.6826	0.2146
	DBP	73.9 ± 11.16	74.3 ± 11.23	74.2 ± 11.35	0.7884	0.7713	0.3305	
	rs7229171	n	40	1025	6485			
		SBP	112.8 ± 15.33	115.6 ± 17.09	115.7 ± 17.28	0.4265	0.4586	0.6318
	DBP	71.2 ± 11.05	73.9 ± 11.10	74.3 ± 11.30	0.0638	0.0865	0.2382	
	rs11152064	n	622	3014	3910			
		SBP	114.7 ± 17.32	115.8 ± 16.85	115.7 ± 17.54	0.6684	0.8905	0.4544
	DBP	73.6 ± 11.26	74.5 ± 11.17	74.0 ± 11.34	0.4175	0.1311	0.3933	
	rs8093609	n	39	1028	6483			
		SBP	113.2 ± 15.31	115.5 ± 17.09	115.7 ± 17.28	0.4200	0.4360	0.7235
	DBP	71.3 ± 11.19	73.8 ± 11.11	74.3 ± 11.29	0.0474	0.0647	0.2311	
	rs10871753	n	1047	3457	3043			
		SBP	115.0 ± 17.21	115.8 ± 16.91	115.7 ± 17.64	0.3724	0.7631	0.1787
	DBP	73.8 ± 11.38	74.3 ± 11.13	74.3 ± 11.39	0.5299	0.9581	0.1859	
	rs9944842	n	920	3354	3231			
		SBP	115.1 ± 17.09	115.7 ± 16.92	115.8 ± 17.59	0.3836	0.5706	0.3462
	DBP	73.8 ± 11.21	74.3 ± 11.19	74.2 ± 11.35	0.6740	0.9920	0.3769	
	rs9955824	n	906	3381	3263			
		SBP	115.2 ± 17.09	115.7 ± 16.93	115.8 ± 17.62	0.4404	0.5881	0.4380
	DBP	73.9 ± 11.15	74.3 ± 11.23	74.3 ± 11.35	0.7222	0.9896	0.4486	
	rs9955907	n	42	1069	6439			
		SBP	114.1 ± 14.63	115.3 ± 17.14	115.7 ± 17.28	0.3029	0.2685	0.9381
	DBP	72.5 ± 10.82	73.7 ± 11.24	74.3 ± 11.28	0.0360	0.0345	0.6215	
	rs8093462	n	66	1224	6260			
		SBP	114.1 ± 13.49	115.1 ± 17.10	115.8 ± 17.31	0.2051	0.1853	0.8646
	DBP	73.0 ± 9.97	73.5 ± 11.18	74.4 ± 11.30	0.0246	0.0201	0.6874	
	rs4940663	n	2	304	7244			
		SBP	106.0 ± 7.54	115.8 ± 17.30	115.7 ± 17.25	0.8333	0.9017	0.2802
	DBP	70.7 ± 13.20	73.8 ± 11.43	74.2 ± 11.26	0.4217	0.4622	0.3551	
	rs7228980	n	61	1297	5912			
		SBP	113.4 ± 13.58	115.1 ± 17.08	115.8 ± 17.31	0.2206	0.2059	0.8465
	DBP	72.7 ± 10.16	73.6 ± 11.19	74.4 ± 11.28	0.0222	0.0193	0.6486	
rs7229644	n	1178	3491	2881				
	SBP	114.5 ± 16.96	115.7 ± 16.99	116.0 ± 17.65	0.0657	0.1785	0.0823	
DBP	73.6 ± 11.25	74.3 ± 11.26	74.4 ± 11.28	0.2156	0.3920	0.2168		
rs7243164	n	99	1493	5953				
	SBP	112.5 ± 13.32	115.1 ± 17.15	115.8 ± 17.32	0.0591	0.0912	0.1725	
DBP	72.6 ± 9.76	73.6 ± 11.42	74.4 ± 11.25	0.0189	0.0213	0.3327		
rs8087052	n	1151	3567	2824				
	SBP	114.6 ± 17.14	115.7 ± 17.00	116.1 ± 17.59	0.0886	0.1591	0.1681	
DBP	73.6 ± 11.40	74.2 ± 11.24	74.4 ± 11.26	0.2014	0.3167	0.2677		

Supplemental Table 2. Continued

Gene	SNP	Number BP	Genotypes			Additive	Dominant	Recessive
			A1/A1	A1/A2	A2/A2	ρ	ρ	ρ
<i>NEED4L</i>	rs12606138	n	73	1284	6193			
		SBP	113.6 ± 14.76	115.3 ± 17.29	115.8 ± 17.26	0.3142	0.3108	0.7653
		DBP	72.6 ± 10.22	73.6 ± 11.17	74.4 ± 11.30	0.0345	0.0332	0.5322
	rs12051934	n	790	3229	3502			
		SBP	114.9 ± 17.56	115.3 ± 16.87	116.1 ± 17.44	0.0835	0.0506	0.5706
		DBP	73.8 ± 11.58	74.1 ± 11.19	74.4 ± 11.18	0.2477	0.2165	0.6228
	rs3865418	n	793	3167	3509			
		SBP	114.8 ± 17.54	115.5 ± 17.03	116.1 ± 17.42	0.0925	0.0846	0.3988
		DBP	73.8 ± 11.58	74.1 ± 11.32	74.4 ± 11.17	0.2830	0.2865	0.5519
	rs9962106	n	695	3169	3685			
		SBP	114.9 ± 17.50	115.3 ± 17.02	116.1 ± 17.38	0.0766	0.0442	0.6126
		DBP	73.8 ± 11.49	74.1 ± 11.33	74.4 ± 11.18	0.2793	0.2463	0.6671
	rs3865419	n	786	3262	3502			
		SBP	114.9 ± 17.57	115.4 ± 16.96	116.1 ± 17.43	0.0793	0.0608	0.4575
		DBP	73.8 ± 11.58	74.1 ± 11.29	74.4 ± 11.18	0.2356	0.2420	0.5083
	rs9947412	n	2	266	7282			
		SBP	106.0 ± 7.54	115.8 ± 17.23	115.7 ± 17.25	0.8318	0.7567	0.2802
		DBP	70.7 ± 13.20	74.0 ± 11.70	74.2 ± 11.25	0.8066	0.8680	0.3551
	rs4058288	n	771	3259	3507			
		SBP	115.0 ± 17.62	115.4 ± 16.97	116.1 ± 17.42	0.1220	0.0895	0.5659
		DBP	73.8 ± 11.60	74.1 ± 11.30	74.4 ± 11.17	0.3434	0.3257	0.6555
	rs12454023	n	750	3241	3559			
		SBP	115.1 ± 17.73	115.3 ± 16.98	116.1 ± 17.38	0.1042	0.0620	0.6477
		DBP	73.9 ± 11.58	74.0 ± 11.33	74.5 ± 11.14	0.2599	0.1810	0.8070
	rs12457509	n	540	2972	4037			
		SBP	115.0 ± 17.49	115.2 ± 16.96	116.1 ± 17.41	0.0349	0.0213	0.5041
		DBP	74.1 ± 11.34	73.9 ± 11.31	74.4 ± 11.22	0.2083	0.1139	0.9967
	rs10513914	n	539	2944	4067			
		SBP	114.8 ± 17.42	115.2 ± 16.95	116.1 ± 17.42	0.0312	0.0278	0.3290
		DBP	74.1 ± 11.23	74.0 ± 11.33	74.4 ± 11.23	0.2691	0.1771	0.9421
	rs3744865	n	542	2883	4096			
		SBP	114.7 ± 17.53	115.3 ± 16.98	116.1 ± 17.41	0.0343	0.0289	0.3548
		DBP	74.0 ± 11.32	74.0 ± 11.32	74.4 ± 11.24	0.3013	0.2052	0.9464
	rs8098336	n	5	359	7186			
		SBP	111.3 ± 15.33	115.6 ± 17.37	115.7 ± 17.24	0.7459	0.7881	0.6057
		DBP	72.4 ± 13.55	73.9 ± 10.93	74.2 ± 11.29	0.3765	0.4016	0.5945
	rs4940679	n	907	3391	3252			
		SBP	115.1 ± 17.72	115.3 ± 16.97	116.1 ± 17.39	0.1043	0.0596	0.6174
		DBP	73.8 ± 11.4	74.0 ± 11.33	74.6 ± 11.16	0.0779	0.0598	0.4307
	rs7242486	n	911	3335	3221			
		SBP	115.1 ± 17.70	115.3 ± 16.89	116.1 ± 17.39	0.1042	0.0598	0.6100
		DBP	73.8 ± 11.38	74.0 ± 11.27	74.5 ± 11.14	0.0732	0.0546	0.4268
	rs2043265	n	24	598	6928			
		SBP	121.0 ± 20.26	115.1 ± 17.21	115.7 ± 17.24	0.7531	0.9890	0.1193
		DBP	76.4 ± 9.413	73.4 ± 11.26	74.3 ± 11.27	0.2201	0.1460	0.4446

Supplemental Table 2. Continued

Gene	SNP	Number BP	Genotypes			Additive	Dominant	Recessive	
			A1/A1	A1/A2	A2/A2	<i>p</i>	<i>p</i>	<i>p</i>	
<i>NDFIP2</i>	rs12858106	n	388	2610	4545				
		SBP	117.2 ± 15.20	116.1 ± 17.54	115.3 ± 17.23	<u>0.0089</u>	<u>0.0110</u>	0.1691	
		DBP	75.8 ± 10.47	74.4 ± 11.32	74.0 ± 11.29	<u>0.0057</u>	<u>0.0244</u>	<u>0.0154</u>	
	rs1023293	n	286	2280	4982				
		SBP	116.0 ± 18.37	115.8 ± 17.1	115.6 ± 17.25	0.7599	0.7449	0.9322	
		DBP	74.8 ± 10.7	74.4 ± 11.43	74.1 ± 11.23	0.2383	0.2820	0.4388	
	rs17071545	n	97	1485	5967				
		SBP	117.3 ± 16.68	116.5 ± 17.45	115.4 ± 17.20	0.0697	0.0789	0.4082	
		DBP	75.3 ± 10.70	74.7 ± 11.03	74.1 ± 11.34	0.1015	0.1231	0.3636	
	rs2783122	n	386	2623	4534				
		SBP	116.9 ± 15.18	116.1 ± 17.51	115.3 ± 17.26	<u>0.0241</u>	<u>0.0283</u>	0.2372	
		DBP	75.6 ± 10.44	74.4 ± 11.34	74.0 ± 11.29	<u>0.0096</u>	<u>0.0335</u>	<u>0.0258</u>	
rs1408049	n	390	2554	4478					
	SBP	116.9 ± 15.15	116.0 ± 17.5	115.4 ± 17.28	<u>0.0403</u>	0.0509	0.2398		
	DBP	75.6 ± 10.40	74.4 ± 11.36	74.0 ± 11.30	<u>0.0148</u>	0.0511	<u>0.0274</u>		
<i>SGK1</i>	rs1057293	n	218	2112	5220				
		SBP	115.6 ± 17.59	115.9 ± 17.46	115.6 ± 17.15	0.7310	0.5510	0.5781	
		DBP	73.9 ± 10.44	74.3 ± 11.53	74.2 ± 11.20	0.9121	0.8740	0.4312	
	rs1743966	n	334	2467	4725				
		SBP	115.9 ± 18.05	115.9 ± 17.51	115.5 ± 17.07	0.6921	0.6497	0.9667	
		DBP	74.1 ± 10.95	74.3 ± 11.44	74.2 ± 11.20	0.8936	0.7227	0.6464	
	rs1763528	n	1200	3574	2774				
		SBP	115.7 ± 16.90	115.6 ± 17.28	115.7 ± 17.36	0.5720	0.6349	0.6541	
		DBP	74.3 ± 10.90	74.2 ± 11.26	74.2 ± 11.45	0.8901	0.7984	0.9409	
	<i>USP2</i>	rs2241646	n	182	2007	5359			
			SBP	113.5 ± 17.67	115.5 ± 17.10	115.8 ± 17.29	<u>0.0401</u>	0.1203	<u>0.0229</u>
			DBP	73.3 ± 11.16	74.0 ± 11.40	74.3 ± 11.23	0.0796	0.1411	0.1296
rs615001		n	48	1067	6435				
		SBP	113.7 ± 19.03	115.1 ± 17.41	115.8 ± 17.20	0.0638	0.0809	0.3039	
		DBP	72.6 ± 12.02	74.0 ± 11.18	74.3 ± 11.28	0.1584	0.2200	0.2163	
rs511401		n	47	1070	6433				
		SBP	114.3 ± 18.85	115.0 ± 17.39	115.8 ± 17.21	0.0556	0.0627	0.4266	
		DBP	72.9 ± 11.91	73.9 ± 11.16	74.3 ± 11.28	0.1428	0.1841	0.2954	

Statistically significant ($p < 0.05$) are indicated in bold and underline.

Supplemental Table 3. continued

Gene	PubMed ID	rs#	SNP position	nation	sample size			MAF			OR	p-value	association result	note	
					case	control	total	case	control	total					
<i>SCNN1G</i>	18443236	rs4967948	G/A	English			2037					0.004	yes	meannight SBP / 520 nuclear families	
		rs4309398	C/T	English			2037					0.004	yes	meannight SBP / 520 nuclear families	
	17698725	rs13331086			Australian			2911			4.04	0.009	yes	high SBP	
		rs11074553			Australian			2911			2.23	0.019	yes	SBP	
		rs4299163			Australian			2911			2.36	0.010	yes	high SBP	
		rs5740			Australian			2911				0.018	yes	high SBP	
	11463765	rs5718	G(-173)A		Japanese			4075			0.100	0.050	yes	Hypertension	
		rs5718	G(-173)A		Japanese			4075			0.100	0.005	yes	SBP	
		rs5718	G(-173)A		Japanese			4075			0.100	0.005	yes	pulse pressure	
		rs5718	G(-173)A		Japanese			4075			0.100	0.020	yes	Hypotension	
		rs5735	T474C		Japanese			4075			0.250	>0.05	no	BP	
	11180614	rs5718	G(-173)A		Australian	117	146		0.340	0.350			0.800	no	Hypertension
		rs5718	G(-173)A		Australian	47	146		0.220	0.350			0.019	yes	overweight&obese hypertensives
	<i>NEDD4L</i>	18591455	rs4149601	G/A	italian			344					<0.001	yes	SBP / sample - Acute Na Load
rs4149601			G/A	italian			193					>0.05	no	SBP / DBP / sample - Diuretic	
rs4149601			G/A	italian			690					>0.05	no	SBP / DBP / sample - 24-hour ambulatory BP	
19635985		rs4149601	G/A	Chinese	833	853	1686				1.39	<0.05	yes	SBP, DBP, Hypertension	
18293164		rs3865418			Chinese	272	356		0.351	0.291			0.023	yes	Hypertension
		rs3865418			Chinese	272	356		0.351	0.291			0.009	yes	DBP
		rs4149601			Chinese	272	356		0.158	0.170			0.570	no	Hypertension
16103266		rs10515976			African American			177	0.610	0.710			0.009	yes	Hypertension
		rs4149591			African American			174	0.270	0.370			0.040	yes	Hypertension
		rs4149601			African American			200	0.570	0.720			0.002	yes	Hypertension
	rs513563			African American			185	0.580	0.680			0.022	yes	Hypertension	
	rs182383			African American			212	0.530	0.620			0.049	yes	Hypertension	
	rs7228980			African American			186	0.540	0.610			0.018	yes	Hypertension	
	rs9953409			African American			214	0.250	0.340			0.042	yes	Hypertension	
	rs513563			North American			181	0.360	0.240			0.013	yes	Hypertension	
	rs3865418			North American			205	0.500	0.390			0.035	yes	Hypertension	
rs4149589			Greek			176	0.190	0.120			0.041	yes	Hypertension		
rs3865418			Greek			150	0.390	0.530			0.021	yes	Hypertension		

Supplemental Table 3. continued

Gene	PubMed ID	rs#	SNP position	nation	sample size			MAF			OR	p-value	association result	note
					case	control	total	case	control	total				
		rs1743964	promoter C/T	Swedish			4830				>0.05	no	Hypertension	
	16221215	rs1743966	intron 6 C/T	Swedish			4830				0.020	yes	DBP	
		rs1057293	exon 8 C/T	Swedish			4830				0.040	yes	SBP	
<i>SGK1</i>	15304560	rs1057293	exon 8 C/T	Swiss	311	280					>0.05	no	ESRD / case:ESRD / control : Transplanted , Hypertension , Healthy	
		rs1057293	exon 8 C/T	Swiss	113	167					>0.05	no	Hypertension	
	15167446		5' region(gcccg[c/t]tccgg)	Japanese			1880			0.412	0.492	no	Hypertension	
		rs1743963	5' region	Japanese			1880			0.135	0.455	no	Hypertension	
		rs1057293	exon 8 C/T	Japanese			1880			0.187	0.237	no	Hypertension	