

Body Mass Index Associated with Genome-Wide Methylation in Breast Tissue. *Breast Cancer Research and Treatment*. Hair BY, Xu Z, Kirk E, Harlid S, Sandhu R, Robinson WR, Wu MC, Olshan AF, Conway K, Taylor JA, Troester MA. Corresponding author affiliation: University of North Carolina at Chapel Hill. Corresponding author email: bhair@email.unc.edu

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg01044662	2	75938360	S_Shore	GCFC2	64.0034946	1.58E-08	0.00444
cg05612654	6	2375895	Other	LOC100508120	-93.369219	5.19E-08	0.005435
cg12924510	18	514363	N_Shore	NA	-78.006878	5.81E-08	0.005435
cg15028995	19	46628119	Other	IGFL3	-124.52624	1.88E-07	0.012225
cg02609279	2	182325952	S_Shelf	ITGA4	-54.323292	3.22E-07	0.012225
cg14724298	4	54424764	Other	LNX1	-44.936848	3.44E-07	0.012225
cg20810975	17	42467199	S_Shelf	ITGA2B	-81.660531	3.48E-07	0.012225
cg22727965	7	25898770	Island	NA	-74.989062	3.49E-07	0.012225
cg16551670	5	106637856	Other	NA	-41.994855	4.30E-07	0.012226
cg22216196	19	15564105	Island	WIZ	52.1995459	4.54E-07	0.012226
cg22573003	X	15402648	Other	FIGF	60.2694175	5.15E-07	0.012226
cg18445108	17	5138259	Other	SCIMP	-78.846477	5.23E-07	0.012226
cg26050975	5	179231109	N_Shore	MGAT4B	-85.677027	5.73E-07	0.01236
cg13673563	14	21738473	S_Shore	HNRNPC	-75.192662	7.41E-07	0.014051
cg09667606	6	158507930	Island	SYNJ2	-45.78714	7.70E-07	0.014051
cg13674705	1	184829177	Other	FAM129A	-101.27697	8.33E-07	0.014051
cg10767045	10	89264128	N_Shore	MINPP1	41.0743103	8.51E-07	0.014051
cg26972389	5	169407753	Other	FAM196B	70.9031872	1.04E-06	0.016205
cg26894297	1	23754550	S_Shelf	TCEA3	-130.5615	1.29E-06	0.017538
cg22190361	2	174886880	N_Shelf	NA	-33.763119	1.32E-06	0.017538
cg23252243	2	26987820	S_Shore	SLC35F6	46.2354944	1.45E-06	0.017538
cg02382221	4	86682649	Other	ARHGAP24	-119.14408	1.50E-06	0.017538
cg14575356	6	130013903	Other	ARHGAP18	-55.904756	1.51E-06	0.017538
cg01440934	1	47051752	Other	MKNK1	-94.276707	1.61E-06	0.017538
cg03089651	1	161039695	Other	ARHGAP30	-59.146057	1.79E-06	0.017538
cg08468577	11	2973342	Other	NAP1L4	-81.895471	1.81E-06	0.017538
cg00667525	19	18699118	N_Shore	C19orf60	49.1276328	1.89E-06	0.017538
cg22595920	1	9716050	S_Shelf	C1orf200	-82.480854	1.92E-06	0.017538
cg20487608	6	15288126	Other	JARID2	-68.646398	1.99E-06	0.017538
cg23159337	3	193272778	Other	ATP13A4	77.9541776	2.10E-06	0.017538
cg24165086	11	64705980	Other	GPHA2	-117.41237	2.27E-06	0.017538
cg04090347	21	44061597	Other	NA	41.6992182	2.28E-06	0.017538
cg16298927	6	170191076	S_Shore	LINC00574	29.7185154	2.30E-06	0.017538
cg05287480	7	27176127	N_Shelf	HOXA-AS3	64.3666325	2.35E-06	0.017538
cg03874653	3	123380206	Other	MYLK	38.7944553	2.38E-06	0.017538
cg09250458	16	1139916	Island	C1QTNF8	47.262956	2.43E-06	0.017538

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Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg17969683	8	24151514	Other	ADAM28	-50.04336	2.58E-06	0.017538
cg24546683	1	242097870	N_Shelf	NA	31.8228613	2.66E-06	0.017538
cg21218183	1	92760687	Other	RPAP2	-31.108025	2.66E-06	0.017538
cg01652190	22	50026171	Island	C22orf34	33.6878786	2.78E-06	0.017538
cg06107293	15	22915986	Other	CYFIP1	-50.488668	2.80E-06	0.017538
cg19502671	13	114129004	Other	DCUN1D2	-62.976812	2.85E-06	0.017538
cg08486903	7	98739496	N_Shore	SMURF1	69.4268587	2.90E-06	0.017538
cg24833674	1	166914191	N_Shelf	ILDR2	-61.994912	2.95E-06	0.017538
cg06110286	8	145728587	N_Shore	GPT	70.90898	3.01E-06	0.017538
cg03198066	2	159311068	N_Shelf	CCDC148	-64.64454	3.04E-06	0.017538
cg16515974	6	31695064	N_Shore	DDAH2	-96.195998	3.13E-06	0.017538
cg06034527	15	96912955	S_Shore	NA	-43.753633	3.25E-06	0.017538
cg12405520	11	126030310	Other	NA	50.3039702	3.26E-06	0.017538
cg18857467	1	32787489	Other	HDAC1	-36.964448	3.28E-06	0.017538
cg00027232	2	85547231	Other	TGOLN2	-80.305405	3.38E-06	0.017538
cg00407944	9	139424152	N_Shore	NOTCH1	-53.819224	3.38E-06	0.017538
cg24640390	10	71336969	N_Shore	NEUROG3	55.6760132	3.48E-06	0.017538
cg11967765	7	2774195	N_Shore	GNA12	-57.053738	3.51E-06	0.017538
cg03458695	10	78163703	Other	C10orf11	-87.013284	3.52E-06	0.017538
cg19228647	6	6901002	Other	NA	-36.73929	3.54E-06	0.017538
cg21500909	19	41870640	S_Shore	B9D2	-47.408778	3.56E-06	0.017538
cg02737379	3	119379530	Other	POPDC2	29.9750334	3.81E-06	0.017907
cg01825818	2	131554018	N_Shore	NA	-71.14647	3.83E-06	0.017907
cg17852032	6	158066811	Other	ZDHHC14	-62.906646	3.83E-06	0.017907
cg17658002	19	11689997	S_Shore	ACP5	-59.874456	4.04E-06	0.017953
cg21988461	4	88008667	Other	AFF1	-62.161831	4.19E-06	0.017953
cg08840913	2	24139933	Island	ATAD2B	-61.768175	4.21E-06	0.017953
cg03814063	22	50025915	Other	C22orf34	49.464325	4.21E-06	0.017953
cg12967050	19	36233297	S_Shore	IGFLR1	-85.436081	4.38E-06	0.017953
cg05587400	10	5817943	Other	GDI2	-53.473271	4.42E-06	0.017953
cg13071208	8	145686887	N_Shore	CYHR1	44.6918908	4.44E-06	0.017953
cg00451054	8	77913321	S_Shore	PEX2	50.803086	4.46E-06	0.017953
cg26272443	19	41083341	Island	SHKBP1	110.187569	4.49E-06	0.017953
cg10499974	3	46244099	Other	CCR1	-59.499221	4.57E-06	0.017953
cg08202836	3	196373751	Other	NRROS	-37.858856	4.57E-06	0.017953
cg15694146	1	27823372	Other	NA	54.9282325	4.67E-06	0.017953
cg00045118	8	93076177	Other	RUNX1T1	50.7745502	4.70E-06	0.017953
cg24527008	5	177870233	Other	COL23A1	-52.599884	4.73E-06	0.017953
cg27621997	11	60608634	N_Shore	CCDC86	31.8939175	4.87E-06	0.018045
cg23357708	19	8580509	S_Shore	ZNF414	-71.13958	4.89E-06	0.018045
cg27571769	4	185704063	Other	ACSL1	-42.302406	5.07E-06	0.018431

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Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14007090	20	60915009	S_Shelf	LAMA5	-83.771114	5.13E-06	0.018431
cg22717593	19	45647012	N_Shore	PPP1R37	-91.360816	5.23E-06	0.018431
cg20609803	1	161184305	Other	FCER1G	-69.042377	5.26E-06	0.018431
cg25346117	1	116923256	Other	ATP1A1	-95.435554	5.35E-06	0.018431
cg01052699	4	171030995	Other	NA	51.2089926	5.39E-06	0.018431
cg24637417	12	51636921	S_Shelf	DAZAP2	-73.678909	5.53E-06	0.018474
cg04188920	10	3138534	Other	PFKP	-50.540612	5.60E-06	0.018474
cg21241317	6	32122736	S_Shore	LOC100507547	146.291662	5.69E-06	0.018474
cg06427816	17	1090326	Other	ABR	36.6003536	5.70E-06	0.018474
cg00753676	4	38662991	N_Shore	KLF3	-70.517681	5.77E-06	0.018474
cg18993949	4	15481269	Other	CC2D2A	36.3140372	5.79E-06	0.018474
cg13067714	14	69091453	N_Shelf	NA	-92.848157	5.87E-06	0.018494
cg26787020	1	174968089	N_Shore	CACYBP	41.2347276	6.05E-06	0.01887
cg24870729	1	62102363	Other	NA	-51.879934	6.17E-06	0.019017
cg14841540	1	90427858	Other	NA	-35.796795	6.27E-06	0.019091
cg01033299	12	53601015	Other	ITGB7	-46.045391	6.33E-06	0.019091
cg20107346	12	88803163	Other	NA	-112.21322	6.51E-06	0.019296
cg06928741	6	31691430	Island	C6orf25	-73.930012	6.53E-06	0.019296
cg24013213	13	51640142	Other	GUCY1B2	-42.257585	6.91E-06	0.019668
cg18418051	5	32734970	Other	NPR3	-57.904657	6.96E-06	0.019668
cg10145584	11	117860269	Other	IL10RA	-75.477163	7.00E-06	0.019668
cg10021122	1	117610620	S_Shelf	TTF2	81.6466099	7.00E-06	0.019668
cg19971655	1	55464927	Island	BSND	-74.218431	7.08E-06	0.019668
cg13580767	12	50135122	S_Shore	TMBIM6	779.885951	7.08E-06	0.019668
cg08526959	2	25149334	Other	NA	-92.24382	7.28E-06	0.019848
cg11751101	12	7244660	Other	C1R	44.7041723	7.30E-06	0.019848
cg01893100	3	167799377	Other	GOLIM4	-38.402507	7.58E-06	0.019848
cg09167779	5	112566614	Other	MCC	38.4449598	7.64E-06	0.019848
cg01816936	12	123518888	Other	PITPNM2	-56.403998	7.65E-06	0.019848
cg25992874	7	142997642	Other	CASP2	-89.845303	7.69E-06	0.019848
cg15998505	1	153479701	Other	NA	76.7951985	7.73E-06	0.019848
cg01354046	5	171057339	Island	NA	74.7524757	7.74E-06	0.019848
cg21870038	17	33390736	Other	RFFL	-30.380216	7.80E-06	0.019848
cg02455383	22	27014116	Other	CRYBB1	-67.284908	7.93E-06	0.019848
cg26504421	17	71339361	Other	SDK2	64.5472312	8.07E-06	0.019848
cg04147906	17	26373775	Other	NLK	-67.413275	8.08E-06	0.019848
cg06261052	10	13545875	Other	BEND7	-82.640867	8.15E-06	0.019848
cg24428218	10	126303795	Island	NA	-29.732186	8.20E-06	0.019848
cg16077055	2	106428750	Other	NCK2	29.2598325	8.26E-06	0.019848
cg10274453	13	43378116	Other	NA	-34.566824	8.34E-06	0.019848
cg08254266	8	36641818	Other	KCNU1	-122.51745	8.35E-06	0.019848

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Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg00309582	20	55841925	S_Shore	BMP7	450.873665	8.43E-06	0.019869
cg26923863	4	1221838	Island	CTBP1	-53.088892	8.52E-06	0.019882
cg00057966	17	56408694	Other	MIR142	-50.808209	8.62E-06	0.019882
cg02492873	2	25193821	N_Shore	DNAJC27	41.5017792	8.64E-06	0.019882
cg05949640	4	2627057	Other	FAM193A	30.9247584	8.90E-06	0.020157
cg07788061	19	13207239	N_Shore	NFIX	-92.557757	8.92E-06	0.020157
cg23962746	1	209105888	Other	NA	69.9269978	8.98E-06	0.020157
cg00201196	16	8738469	Other	METTL22	-80.550935	9.07E-06	0.020188
cg10227830	4	144332828	Other	GAB1	49.1899414	9.19E-06	0.020312
cg17207512	6	11382553	Other	NEDD9	-54.543891	9.27E-06	0.020329
cg10666916	6	33872206	S_Shore	NA	-76.610681	9.44E-06	0.020383
cg08813888	2	662396	Other	NA	-53.782802	9.44E-06	0.020383
cg26732720	11	64392533	Other	NRXN2	-64.501175	9.53E-06	0.020413
cg11494437	3	15678564	Other	BTD	-50.152869	9.66E-06	0.020431
cg18637901	4	3247372	N_Shelf	MSANTD1	-120.49988	9.68E-06	0.020431
cg10324998	1	92338262	Other	TGFBR3	66.5351905	9.87E-06	0.02053
cg16250868	7	3710628	Other	SDK1	-23.001456	9.88E-06	0.02053
cg16721359	8	98610787	Other	NA	-69.946429	1.04E-05	0.021227
cg11649821	1	1859438	Island	NA	-60.17224	1.06E-05	0.021227
cg25037841	22	20237341	Other	MIR1286	46.3919569	1.07E-05	0.021227
cg03069267	9	134699490	Island	NA	53.3772566	1.08E-05	0.021227
cg14855124	1	9180023	Other	GPR157	-69.920941	1.08E-05	0.021227
cg15818008	11	112126170	Other	C11orf34	-41.754715	1.08E-05	0.021227
cg02154345	12	115104983	Island	NA	-55.221813	1.09E-05	0.021227
cg23343486	17	75449911	Other		9-Sep -67.785532	1.10E-05	0.021227
cg14080050	9	33159025	S_Shelf	B4GALT1	-48.710824	1.10E-05	0.021227
cg24020157	10	43697521	Other	RASGEF1A	-60.512436	1.11E-05	0.021227
cg18966495	6	22222737	N_Shore	NA	58.5478719	1.11E-05	0.021227
cg18638581	2	75059602	N_Shore	HK2	-47.736258	1.14E-05	0.021227
cg14146966	2	61757674	S_Shore	XPO1	43.1685072	1.15E-05	0.021227
cg08486269	6	154677972	Other	IPCEF1	-42.267788	1.15E-05	0.021227
cg03310874	7	4850260	Other	RADIL	-50.328402	1.15E-05	0.021227
cg02320083	5	171057072	Island	NA	651.734528	1.16E-05	0.021227
cg17042715	13	75814730	Other	CTAGE11P	-141.20694	1.16E-05	0.021227
cg26681847	11	120208749	S_Shore	ARHGEF12	63.3647848	1.17E-05	0.021227
cg26274090	19	40195028	Other	LGALS14	44.2810322	1.18E-05	0.021227
cg20382493	13	114829170	Other	RASA3	48.4909184	1.20E-05	0.021227
cg02596994	12	122296950	Other	HPD	51.2022886	1.21E-05	0.021227
cg03886558	12	57869490	Island	ARHGAP9	48.7204974	1.21E-05	0.021227
cg04042106	11	65628736	S_Shore	MUS81	266.516448	1.22E-05	0.021227
cg16323359	6	41913381	S_Shelf	CCND3	-156.14715	1.22E-05	0.021227

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cg24254842	1	42193353	Other	HIVEP3	-31.170344	1.22E-05	0.021227
cg23238058	6	7042879	Other	NA	-40.606632	1.23E-05	0.021227
cg06048102	13	51575027	Other	GUCY1B2	43.5306579	1.23E-05	0.021227
cg17952939	1	9154250	Other	NA	-69.618328	1.26E-05	0.021227
cg02544658	21	44876604	Island	NA	-51.237726	1.26E-05	0.021227
cg01034993	15	68992751	Island	CORO2B	-48.631729	1.26E-05	0.021227
cg09568217	17	7311868	Other	NLGN2	-60.580493	1.26E-05	0.021227
cg01062269	X	100603843	Other	TIMM8A	-58.205938	1.27E-05	0.021227
cg00471696	2	173955214	Island	ZAK	46.52697	1.27E-05	0.021227
cg23595451	4	1035462	Other	NA	65.8281054	1.28E-05	0.021227
cg08685085	12	57114435	Other	NACA	-58.381062	1.29E-05	0.021227
cg24226371	15	75945038	Other	SNX33	48.9571662	1.32E-05	0.021281
cg22022821	11	102750873	Other	NA	-70.702981	1.33E-05	0.021281
cg07113653	6	13428657	Other	GFOD1	-47.944234	1.33E-05	0.021281
cg04079215	1	95095221	Other	NA	-57.373387	1.33E-05	0.021281
cg25789721	3	10370264	S_Shore	ATP2B2	64.0409197	1.34E-05	0.021281
cg06955979	14	101162556	Other	NA	60.3515163	1.34E-05	0.021281
cg00348762	16	56228114	N_Shore	DKFZP434H168	66.2180161	1.34E-05	0.021281
cg27574973	7	78218446	Other	MAGI2	-108.74207	1.35E-05	0.021307
cg14225168	9	139403827	N_Shore	NOTCH1	-56.890348	1.39E-05	0.021624
cg09275408	10	44500491	N_Shore	NA	-60.432294	1.40E-05	0.021624
cg09120934	11	120187999	Other	POU2F3	56.5007194	1.41E-05	0.021624
cg25337513	17	78800631	Other	RPTOR	-69.140884	1.42E-05	0.021624
cg09679746	16	61960656	Other	CDH8	68.8314197	1.42E-05	0.021624
cg06150803	13	24144257	S_Shore	TNFRSF19	44.8183074	1.42E-05	0.021624
cg07353685	1	153536278	Other	S100A2	-63.032953	1.43E-05	0.021624
cg03984209	3	55920018	Other	ERC2	-37.581663	1.44E-05	0.021652
cg02460419	12	124198876	S_Shore	ATP6V0A2	-60.972739	1.44E-05	0.021672
cg20120371	17	41956344	Other	MPP2	33.1665232	1.46E-05	0.021742
cg18334681	6	132066129	Other	ENPP3	-30.143781	1.47E-05	0.02175
cg16496462	12	124854282	N_Shelf	NCOR2	41.6046367	1.47E-05	0.021774
cg26918808	1	67950349	Other	NA	43.2497097	1.49E-05	0.021817
cg11297046	19	49657000	S_Shore	HRC	-57.805917	1.51E-05	0.02212
cg01209566	8	125954151	Other	LINC00964	55.8745769	1.52E-05	0.022129
cg20049422	15	26044289	Other	ATP10A	-41.953423	1.54E-05	0.02223
cg11010552	5	131338478	Other	ACSL6	-94.10385	1.55E-05	0.022262
cg27050111	16	8738240	Other	METTL22	-51.381859	1.56E-05	0.022374
cg05120113	3	33140160	S_Shore	GLB1	-131.47278	1.57E-05	0.022374
cg22480742	7	134576386	Other	CALD1	47.8626606	1.58E-05	0.022397
cg11534596	1	17574720	Other	PADI3	-60.860067	1.62E-05	0.022743
cg21005416	1	21606617	Other	ECE1	-31.210444	1.62E-05	0.022743

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg19323703	2	46498015	Other	NA	-73.196626	1.64E-05	0.022862
cg12105382	12	4390091	Other	CCND2	49.8077289	1.66E-05	0.023001
cg17626734	6	130182551	Other	TMEM244	28.7118912	1.67E-05	0.023001
cg17920246	10	14116424	Other	FRMD4A	37.3134207	1.67E-05	0.023001
cg19262637	1	240783328	Other	NA	33.9598136	1.70E-05	0.023251
cg13549277	12	6659520	S_Shore	IFFO1	-57.032104	1.73E-05	0.023421
cg17210664	10	61297420	Other	NA	43.2598333	1.73E-05	0.023421
cg16530881	17	38708399	Other	NA	37.0706872	1.74E-05	0.023421
cg16903174	2	9468351	Other	ASAP2	-44.572783	1.77E-05	0.023726
cg10058766	1	12186079	Other	TNFRSF8	-38.620051	1.78E-05	0.023726
cg23854567	12	120694893	Other	PXN	43.2874908	1.79E-05	0.023781
cg15757292	11	119994008	Other	TRIM29	-61.912072	1.80E-05	0.023843
cg02894226	20	3190561	Island	ITPA	425.193705	1.82E-05	0.023918
cg13866093	6	28502727	Other	GPX5	39.3919089	1.83E-05	0.023993
cg12006375	13	51640315	Other	GUCY1B2	-70.63086	1.86E-05	0.024204
cg02609337	8	134559320	Other	ST3GAL1	-45.874465	1.86E-05	0.024204
cg16593865	8	126082720	Other	KIAA0196	45.0650192	1.89E-05	0.024342
cg25724895	20	58630390	Other	C2orf197	-52.308438	1.90E-05	0.024342
cg22485921	5	131557716	Other	P4HA2	60.6522356	1.91E-05	0.024342
cg02365539	7	2136919	Other	MAD1L1	-70.647526	1.92E-05	0.024342
cg06688763	7	92238207	Other	CDK6	51.1418202	1.92E-05	0.024342
cg15847685	4	62129666	Other	NA	-32.907125	1.94E-05	0.024342
cg11547696	8	142288508	Other	NA	-99.971515	1.95E-05	0.024342
cg15408360	14	102432104	Other	DYNC1H1	39.3429507	1.95E-05	0.024342
cg07892449	17	4835627	S_Shore	GP1BA	-53.999958	1.95E-05	0.024342
cg01048752	8	10001523	Other	MSRA	-110.90683	2.01E-05	0.024932
cg02338840	2	207931932	Other	NA	-86.006542	2.04E-05	0.024944
cg22718308	15	42308160	Other	PLA2G4E	-176.47851	2.08E-05	0.024944
cg06682445	7	43915791	Other	URGCP-MRPS24	-64.908437	2.08E-05	0.024944
cg12656272	3	100328186	Other	GPR128	-56.7966	2.09E-05	0.024944
cg00423487	19	4455957	N_Shore	UBXN6	74.434293	2.10E-05	0.024944
cg21459713	8	623688	Island	ERICH1	-41.470695	2.10E-05	0.024944
cg10576992	4	119662530	Other	SEC24D	35.5908334	2.11E-05	0.024944
cg01456691	6	11382556	Other	NEDD9	-67.843461	2.12E-05	0.024944
cg11574092	2	241394528	N_Shore	MIR149	-59.61566	2.13E-05	0.024944
cg13688889	9	100608707	N_Shore	NA	-44.289546	2.15E-05	0.024944
cg24413778	13	110977981	Other	COL4A2	-45.808253	2.15E-05	0.024944
cg12332776	10	71336241	N_Shore	NEUROG3	65.135456	2.16E-05	0.024944
cg20103124	13	31309625	S_Shore	ALOX5AP	-65.521381	2.17E-05	0.024944
cg17478749	6	31589365	Other	PRRC2A	132.895988	2.17E-05	0.024944
cg00791321	2	239999938	Other	HDAC4	66.3706159	2.18E-05	0.024944

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14162552	9	139744532	Island	PHPT1	50.2972097	2.18E-05	0.024944
cg08329473	10	116133852	Other	AFAP1L2	63.3355536	2.19E-05	0.024944
cg03919657	17	48502312	N_Shore	ACSF2	-55.562997	2.20E-05	0.024944
cg08643131	19	1356150	S_Shore	MUM1	72.3370265	2.20E-05	0.024944
cg01374870	6	32905127	Other	HLA-DMB	-47.687837	2.21E-05	0.024944
cg26075966	7	44999021	N_Shelf	NA	-29.615774	2.21E-05	0.024944
cg09916174	7	134576049	Other	CALD1	41.0414108	2.22E-05	0.024944
cg21188533	3	53700263	Other	CACNA1D	-46.820368	2.23E-05	0.024944
cg16982073	13	112507984	Other	NA	28.5922614	2.25E-05	0.024944
cg00373763	13	50908713	Other	NA	-82.250899	2.25E-05	0.024944
cg13011604	3	46950416	Other	NA	53.0705097	2.25E-05	0.024944
cg19960420	10	101282185	N_Shore	NA	36.0112928	2.26E-05	0.024944
cg16119522	20	37433745	N_Shore	PPP1R16B	-53.493943	2.26E-05	0.024944
cg07035442	17	81028481	Other	NA	-59.034818	2.28E-05	0.024973
cg16377679	5	58388744	Other	PDE4D	34.8757271	2.29E-05	0.024973
cg24598993	6	4923095	Other	CDYL	-55.910679	2.29E-05	0.024973
cg12196406	19	35629576	N_Shelf	FXYD1	55.2962631	2.30E-05	0.024973
cg08892455	17	1231715	Other	NA	-55.854138	2.31E-05	0.024973
cg00017461	22	30663316	S_Shelf	OSM	-57.558528	2.31E-05	0.024973
cg19585100	14	73703023	N_Shore	PAPLN	-61.989224	2.37E-05	0.025517
cg02475834	10	13628849	Island	PRPF18	678.125266	2.39E-05	0.025638
cg02185666	2	206549667	Island	NRP2	-29.181574	2.42E-05	0.025796
cg00045607	1	161039690	Other	ARHGAP30	-65.557866	2.43E-05	0.025829
cg06943912	19	10715612	S_Shelf	SLC44A2	-43.790796	2.44E-05	0.025876
cg23093580	1	39491322	Other	NDUFS5	52.9268677	2.46E-05	0.025876
cg23301925	14	91294322	Other	NA	61.2893046	2.46E-05	0.025876
cg13423554	1	42317463	Other	HIVEP3	-31.00624	2.48E-05	0.02592
cg14431165	6	44160222	Other	NA	-48.287903	2.52E-05	0.026291
cg08579540	2	175652652	Other	NA	41.1329836	2.53E-05	0.026298
cg19619756	5	1219499	S_Shore	SLC6A19	78.2060109	2.56E-05	0.026467
cg17171407	8	119960777	N_Shelf	TNFRSF11B	-27.057862	2.58E-05	0.026615
cg18033335	19	11034897	S_Shelf	YIPF2	79.1180377	2.60E-05	0.026615
cg24365867	11	10715595	Other	MRVI1	45.2522526	2.61E-05	0.026615
cg25576997	14	56257750	Other	LINC00520	-22.50163	2.61E-05	0.026615
cg13912573	9	92293297	S_Shore	UNQ6494	61.2996698	2.62E-05	0.026615
cg02023973	16	1519973	Other	CLCN7	-50.621879	2.63E-05	0.026615
cg06112654	10	35505599	S_Shore	NA	-44.878085	2.66E-05	0.026716
cg23433345	12	77059628	Other	NA	-66.49326	2.68E-05	0.026716
cg00431968	8	92528313	Other	NA	-45.675366	2.69E-05	0.026716
cg20317872	1	111743202	N_Shelf	DENND2D	-63.805084	2.69E-05	0.026716
cg15401418	17	75316383	Other	9-Sep	45.6995799	2.71E-05	0.026716

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg22438522	4	646293	N_Shore	PDE6B	-125.15986	2.72E-05	0.026716
cg09248380	4	111397190	N_Shore	ENPEP	41.0713517	2.73E-05	0.026716
cg14485633	9	136783440	Other	VAV2	-36.912221	2.73E-05	0.026716
cg26639479	16	30363681	Other	CD2BP2	47.6666275	2.73E-05	0.026716
cg22057874	2	179184866	N_Shelf	OSBPL6	-43.754668	2.73E-05	0.026716
cg11844079	1	160001979	Island	PIGM	432.257681	2.74E-05	0.026716
cg15335334	17	73642547	Other	SMIM6	-44.963385	2.75E-05	0.026743
cg09743596	16	89180843	Other	ACSF3	-80.451472	2.79E-05	0.026769
cg02129017	6	168983500	Other	SMOC2	-105.53379	2.79E-05	0.026769
cg16259171	11	73660510	Other	DNAJB13	-56.901468	2.79E-05	0.026769
cg23845168	17	31271015	Other	NA	38.6872284	2.80E-05	0.026769
cg14155193	9	129148742	Other	MVB12B	-58.400645	2.86E-05	0.027244
cg18887230	7	98739627	N_Shore	SMURF1	64.8008504	2.86E-05	0.027244
cg17209284	2	231235574	Other	SP140L	-75.86462	2.90E-05	0.027356
cg12097896	8	26471364	N_Shore	DPYSL2	-84.521157	2.91E-05	0.027356
cg03173570	21	33031392	Other	SOD1	54.5762085	2.91E-05	0.027356
cg12104698	7	139529130	Other	TBXAS1	-76.437196	2.92E-05	0.027356
cg01900371	2	27256120	Island	TMEM214	537.355016	2.97E-05	0.02775
cg09423875	6	32014663	Other	TNXB	85.5462319	2.98E-05	0.02775
cg11869499	15	89872984	N_Shelf	POLG	-67.992263	2.99E-05	0.027801
cg04177826	22	50985681	Island	KLHDC7B	43.2090732	3.01E-05	0.027873
cg02933639	4	8207325	Other	SH3TC1	-60.349047	3.03E-05	0.027884
cg00259404	6	28885568	Other	TRIM27	-53.016505	3.06E-05	0.027884
cg22501604	4	187647344	S_Shelf	FAT1	91.5324335	3.07E-05	0.027884
cg02322889	4	25101274	Other	NA	39.1599398	3.07E-05	0.027884
cg15744333	6	32372310	Island	BTNL2	39.4261259	3.07E-05	0.027884
cg18887096	2	219472410	Other	PLCD4	48.0406278	3.08E-05	0.027884
cg20635370	10	80666318	Other	NA	-39.786465	3.08E-05	0.027884
cg19232382	10	134953542	N_Shore	NA	26.8986525	3.11E-05	0.027961
cg03046611	3	55340399	Other	NA	23.4647084	3.12E-05	0.027961
cg12297590	6	158080750	Other	ZDHHC14	-23.050568	3.12E-05	0.027961
cg20652759	10	409280	Island	DIP2C	-127.58527	3.13E-05	0.027961
cg25652701	7	105348517	Other	ATXN7L1	-52.611492	3.16E-05	0.028108
cg25527547	7	100862300	S_Shore	PLOD3	33.6561577	3.18E-05	0.028232
cg06787669	7	45018789	Other	MYO1G	-49.757542	3.20E-05	0.028284
cg21190644	6	2659375	Other	NA	-68.405581	3.21E-05	0.028284
cg21412215	8	39973292	Other	NA	50.1729322	3.22E-05	0.028284
cg03373714	2	147632094	Other	NA	-28.75268	3.24E-05	0.028284
cg04229928	11	119303807	Other	USP2-AS1	60.3912133	3.24E-05	0.028284
cg26011014	1	40783003	Island	COL9A2	319.182806	3.25E-05	0.028284
cg08981041	4	117624191	N_Shelf	NA	61.8550504	3.26E-05	0.028324

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14669515	1	9386821	Other	SPSB1	47.0535874	3.29E-05	0.028424
cg09996284	1	156211851	N_Shelf	BGLAP	-58.796779	3.30E-05	0.028424
cg18512930	4	1496880	S_Shelf	NA	46.2925166	3.30E-05	0.028424
cg25505880	11	62574338	S_Shore	NXF1	-63.738925	3.32E-05	0.028498
cg24751773	2	107192564	Other	NA	67.0908346	3.33E-05	0.028498
cg00035969	1	112159097	N_Shelf	RAP1A	-34.467067	3.35E-05	0.028593
cg04217515	21	46325853	S_Shore	ITGB2	-50.825933	3.38E-05	0.028647
cg15244101	12	49627624	N_Shore	NA	-47.832415	3.39E-05	0.028647
cg01457077	2	239228573	N_Shore	TRAF3IP1	80.9412732	3.39E-05	0.028647
cg11234339	11	10907448	Other	NA	58.4151421	3.42E-05	0.028687
cg06385449	11	63974123	N_Shore	FERMT3	-64.538606	3.43E-05	0.028687
cg27563126	9	132438028	Island	PRRX2	62.6022708	3.44E-05	0.028687
cg06645778	2	64680425	Other	LGALS1	37.5829967	3.49E-05	0.028687
cg04568981	1	53125850	N_Shore	NA	58.8984383	3.49E-05	0.028687
cg19502709	5	169816214	Other	KCNMB1	-30.095045	3.50E-05	0.028687
cg08114852	11	13461802	Other	BTBD10	95.7169076	3.50E-05	0.028687
cg00639635	6	143837891	Other	FUCA2	-57.370451	3.50E-05	0.028687
cg16262559	4	1535729	S_Shore	NA	35.8370451	3.52E-05	0.028687
cg09781650	16	66285054	Other	NA	30.7217039	3.53E-05	0.028687
cg19268453	6	32905114	Other	HLA-DMB	-59.625288	3.54E-05	0.028687
cg00770372	8	37237473	Other	NA	32.0461847	3.55E-05	0.028687
cg08284638	2	86255154	Other	LOC90784	-55.764072	3.55E-05	0.028687
cg04454664	5	71748552	Other	ZNF366	51.5315862	3.55E-05	0.028687
cg18174678	1	42801761	S_Shore	FOXJ3	31.4224809	3.56E-05	0.028687
cg14105566	2	121107846	N_Shore	INHBB	-64.866658	3.57E-05	0.028687
cg13357416	17	707032	S_Shore	NXN	35.2537381	3.57E-05	0.028687
cg10271819	7	139426030	Other	HIPK2	-51.72299	3.58E-05	0.028687
cg08094206	6	30122523	Other	TRIM10	30.4016938	3.60E-05	0.028738
cg00566997	17	9675101	Island	DHRS7C	-109.45129	3.62E-05	0.028738
cg00974579	16	88990188	N_Shelf	CBFA2T3	69.6778789	3.62E-05	0.028738
cg07830160	1	159880327	Other	NA	-39.592701	3.63E-05	0.028738
cg13135609	8	125123369	Other	FER1L6	-72.135677	3.65E-05	0.028821
cg18057548	19	3617614	S_Shelf	CACTIN	-40.88323	3.66E-05	0.028821
cg17627898	12	118782453	Other	TAOK3	-48.647724	3.68E-05	0.028895
cg16261114	15	99551997	Other	PGPEP1L	-71.496347	3.69E-05	0.028908
cg13603551	7	150549406	Other	AOC1	-64.301304	3.70E-05	0.028917
cg00294149	16	75604552	S_Shelf	GABARAPL2	-38.899042	3.72E-05	0.028973
cg10881242	5	171057282	Island	NA	84.3752231	3.73E-05	0.028973
cg10103528	1	22979739	Other	C1QB	-49.800635	3.75E-05	0.029054
cg23360388	5	94726774	S_Shore	FAM81B	-32.868026	3.78E-05	0.029142
cg20069688	6	31941049	Other	DOM3Z	83.9046035	3.78E-05	0.029142

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg03409108	6	34489785	Other	PACSIN1	-65.02507	3.80E-05	0.029142
cg02144258	2	220391374	S_Shelf	ASIC4	-54.697975	3.81E-05	0.029142
cg16823610	4	40856529	N_Shelf	APBB2	-109.68502	3.82E-05	0.029142
cg06942450	20	57583520	S_Shore	CTSZ	-78.869875	3.83E-05	0.029142
cg23051299	2	75938289	S_Shore	GCFC2	98.0338968	3.84E-05	0.029142
cg09259534	1	218472841	Other	RRP15	38.1901279	3.85E-05	0.029142
cg22460123	12	52638294	N_Shore	KRT7	-35.727862	3.85E-05	0.029142
cg04325187	X	149930807	Island	MTMR1	67.3464496	3.88E-05	0.029165
cg09801824	10	74076930	N_Shelf	NA	-65.047106	3.89E-05	0.029165
cg26078407	2	240225062	Other	MIR4269	-43.687378	3.92E-05	0.029165
cg22751954	6	143023932	Other	NA	-63.606968	3.92E-05	0.029165
cg00828556	3	196351986	Other	NA	-42.531806	3.92E-05	0.029165
cg09821400	10	33654419	Other	NA	-78.308452	3.93E-05	0.029165
cg24641737	1	111743271	N_Shelf	DENND2D	-46.57334	3.93E-05	0.029165
cg03179542	7	2647333	S_Shore	IQCE	-38.872431	3.96E-05	0.029318
cg24889694	8	101522535	Other	ANKRD46	35.2295018	3.99E-05	0.029318
cg04516672	10	126411663	Other	FAM53B	-28.892297	3.99E-05	0.029318
cg09941581	4	124220074	Other	SPATA5	36.3894742	3.99E-05	0.029318
cg17190781	6	40387783	Other	LRFN2	-120.30357	4.02E-05	0.029318
cg21871338	14	87262857	Other	NA	40.1977212	4.02E-05	0.029318
cg02824983	15	38659681	Other	NA	-38.086201	4.05E-05	0.029318
cg14886850	14	75122289	Other	NA	25.6625128	4.05E-05	0.029318
cg00836101	15	39876248	S_Shelf	THBS1	37.3496282	4.06E-05	0.029318
cg16384774	14	89626932	Other	FOXN3	-314.66179	4.07E-05	0.029318
cg02073763	2	46064034	N_Shore	PRKCE	-66.956064	4.07E-05	0.029318
cg19201009	10	99475406	S_Shore	MARVELD1	45.1318555	4.07E-05	0.029318
cg13856674	15	93722590	Other	NA	-44.460103	4.09E-05	0.029354
cg03479209	3	58020999	Other	FLNB	-40.565743	4.11E-05	0.029388
cg25035489	1	6036550	Other	NPHP4	-76.69535	4.14E-05	0.029395
cg26124526	5	60618932	Other	NA	-43.076211	4.15E-05	0.029395
cg25953692	6	31695415	Other	DDAH2	-63.00609	4.16E-05	0.029395
cg08688659	11	35249965	N_Shore	CD44	-71.264895	4.16E-05	0.029395
cg23753351	4	40860327	S_Shore	APBB2	-28.2304	4.17E-05	0.029395
cg03190219	7	25898688	Island	NA	-48.041577	4.18E-05	0.029395
cg19230025	19	35488496	N_Shelf	GRAMD1A	-23.604447	4.18E-05	0.029395
cg00651488	16	85236465	Other	NA	58.9369027	4.19E-05	0.029395
cg11110759	14	101282683	Other	MIR2392	-73.760065	4.20E-05	0.029395
cg17184477	15	67360705	S_Shore	SMAD3	51.2676346	4.22E-05	0.029413
cg10166664	5	60624229	N_Shelf	ZSWIM6	-29.876366	4.25E-05	0.029413
cg15326297	2	235464680	Other	NA	49.4168644	4.27E-05	0.029413
cg26783127	17	79128918	N_Shelf	AATK	-80.097782	4.27E-05	0.029413

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg04120400	2	133425064	N_Shore	LYPD1	-55.333952	4.28E-05	0.029413
cg13795831	20	57582706	S_Shore	CTSZ	-45.397456	4.29E-05	0.029413
cg06830360	8	142413013	Other	NA	-42.621101	4.31E-05	0.029413
cg21271945	1	2080081	N_Shelf	PRKCZ	-39.492766	4.31E-05	0.029413
cg05964212	3	48936979	S_Shore	SLC25A20	-65.467584	4.34E-05	0.029413
cg25282976	17	79005047	N_Shore	BAIAP2-AS1	-35.084387	4.35E-05	0.029413
cg24718773	2	138739074	Other	HNMT	-60.196709	4.36E-05	0.029413
cg01534527	3	38003247	Other	CTDSPL	-45.627969	4.37E-05	0.029413
cg15755265	15	63673502	N_Shore	CA12	125.636093	4.39E-05	0.029413
cg02555923	3	14319984	Other	NA	-70.046562	4.40E-05	0.029413
cg20418394	10	72254335	S_Shore	PALD1	-49.99122	4.40E-05	0.029413
cg10001720	1	31231363	Other	LAPTM5	-37.179954	4.40E-05	0.029413
cg05596664	3	171179040	Other	TNIK	389.893177	4.40E-05	0.029413
cg25452067	10	101281603	Other	NA	50.3050305	4.41E-05	0.029413
cg18589102	10	132683444	Other	NA	44.0123695	4.41E-05	0.029413
cg05061769	15	59700360	Island	NA	-27.782741	4.41E-05	0.029413
cg21880476	6	885298	N_Shelf	NA	-29.867734	4.43E-05	0.029443
cg24882673	8	40625224	Other	ZMAT4	-19.58419	4.45E-05	0.029551
cg25360761	19	35819943	Other	CD22	-36.096394	4.48E-05	0.029628
cg03750478	16	29757375	Other	C16orf54	-58.603759	4.52E-05	0.029628
cg16097772	12	69742232	Other	LYZ	-64.95904	4.53E-05	0.029628
cg04405704	6	31369119	N_Shore	MICA	-28.621806	4.55E-05	0.029628
cg20610950	17	75096202	Other	SEC14L1	-44.390487	4.56E-05	0.029628
cg06481431	19	6745321	N_Shore	TRIP10	35.9757201	4.57E-05	0.029628
cg01185640	6	158053980	Other	ZDHHC14	28.3244275	4.59E-05	0.029628
cg19139589	2	25149093	Other	NA	-87.637562	4.60E-05	0.029628
cg25414209	13	36785834	N_Shore	SOHLH2	-93.113986	4.61E-05	0.029628
cg03549705	16	29674618	N_Shelf	SPN	-82.662793	4.61E-05	0.029628
cg04010915	12	110547053	Other	NA	35.3388656	4.62E-05	0.029628
cg25907743	10	90519680	Other	LIPN	-49.052284	4.62E-05	0.029628
cg21284779	1	155910526	Other	RXFP4	-50.948998	4.62E-05	0.029628
cg26907302	10	127464488	S_Shore	MMP21	-159.2457	4.64E-05	0.029628
cg04217082	8	37889752	S_Shore	EIF4EBP1	31.5102965	4.64E-05	0.029628
cg06305891	3	195897904	Other	NA	-56.697309	4.65E-05	0.029628
cg21129729	2	42719678	N_Shore	KCNG3	-99.16111	4.65E-05	0.029628
cg03807883	11	36535685	S_Shelf	TRAF6	40.9444258	4.67E-05	0.029655
cg10655236	17	753974	Other	NXN	29.5313303	4.68E-05	0.029655
cg03125531	8	1906418	Other	ARHGEF10	27.0878974	4.69E-05	0.029655
cg01833890	12	2564063	Other	CACNA1C	-46.809191	4.71E-05	0.029655
cg21390363	17	18171734	S_Shelf	NA	47.4780751	4.71E-05	0.029655
cg23886165	13	76209457	N_Shore	LMO7	31.6458954	4.72E-05	0.029655

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg12446613	5	159072916	N_Shore	NA	-66.693123	4.74E-05	0.029655
cg11825501	7	4168039	Other	SDK1	-92.834915	4.74E-05	0.029655
cg15860924	1	33612977	Island	TRIM62	59.1122479	4.75E-05	0.029655
cg26441979	8	79143895	Other	NA	-53.896612	4.76E-05	0.029655
cg03672272	22	46470191	S_Shore	NA	42.0085964	4.79E-05	0.029772
cg03997039	16	29703361	N_Shelf	QPRT	-69.878984	4.81E-05	0.029837
cg10109731	16	88472541	Other	NA	36.0504607	4.83E-05	0.029863
cg13593887	9	138159326	S_Shelf	NA	-86.653414	4.83E-05	0.029863
cg00539174	20	57583434	S_Shore	CTSZ	-66.213112	4.86E-05	0.029863
cg11067407	11	113599852	Other	NA	-44.814561	4.86E-05	0.029863
cg25299676	7	116312739	S_Shore	MET	110.232965	4.87E-05	0.029863
cg10855531	2	62702472	Other	NA	-77.16182	4.89E-05	0.029863
cg05300378	17	74128731	Other	NA	54.9505023	4.90E-05	0.029863
cg17342469	22	46473074	Other	NA	35.2719643	4.90E-05	0.029863
cg01721313	3	169751609	N_Shelf	GPR160	-86.68872	4.92E-05	0.029863
cg11433866	12	115126908	S_Shore	TBX3	-67.216167	4.94E-05	0.029863
cg19701213	19	42817154	Other	TMEM145	52.8805939	4.97E-05	0.029863
cg04790874	19	42381950	N_Shore	CD79A	-62.445796	4.97E-05	0.029863
cg21513254	6	30624502	Other	DHX16	-73.634461	4.98E-05	0.029863
cg02016065	3	157290927	Other	C3orf55	-64.548407	4.99E-05	0.029863
cg00250645	8	72534391	Other	NA	-52.163517	4.99E-05	0.029863
cg20306863	1	3593812	Other	TP73	-63.157436	5.01E-05	0.029863
cg07104557	7	1036653	N_Shelf	C7orf50	-87.490879	5.02E-05	0.029863
cg08884752	1	2162001	S_Shore	SKI	39.7986268	5.03E-05	0.029863
cg15454698	3	14473580	Other	SLC6A6	-43.136588	5.03E-05	0.029863
cg18133072	1	28287782	S_Shore	XKR8	73.1431747	5.04E-05	0.029863
cg20682563	5	133460874	Other	TCF7	36.8516844	5.06E-05	0.029863
cg19252956	9	273072	Other	DOCK8	-44.078081	5.07E-05	0.029863
cg25426302	6	32120826	Other	PPT2	27.7959191	5.08E-05	0.029863
cg20283498	10	73387917	N_Shore	CDH23	-59.225026	5.08E-05	0.029863
cg10712687	11	92714801	Other	MTNR1B	-441.9617	5.09E-05	0.029863
cg23671196	15	50405520	Other	ATP8B4	-56.055741	5.09E-05	0.029863
cg16527057	1	157069242	Other	ETV3L	-88.644443	5.10E-05	0.029863
cg16413842	6	170191082	S_Shore	LINC00574	23.243064	5.13E-05	0.029997
cg04919519	14	103524989	S_Shore	CDC42BPB	128.659996	5.17E-05	0.030091
cg14789659	10	63809073	Other	ARID5B	50.228694	5.18E-05	0.030091
cg12405048	12	112074086	Other	NA	42.9616794	5.18E-05	0.030091
cg01809797	22	31796612	S_Shore	DRG1	31.7291601	5.19E-05	0.030107
cg09798061	16	1482603	Island	NA	-61.084341	5.20E-05	0.030107
cg04207142	8	86089106	N_Shore	E2F5	45.2911599	5.24E-05	0.030117
cg12073251	8	141568652	Other	AGO2	-50.019567	5.25E-05	0.030117

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg02889973	1	234977572	Other	NA	-36.422906	5.25E-05	0.030117
cg19909613	8	109487153	Other	EMC2	-43.132168	5.26E-05	0.030117
cg14512326	9	86240166	N_Shelf	IDNK	-72.330849	5.29E-05	0.030117
cg12207930	3	151048337	Other	P2RY13	-56.449032	5.29E-05	0.030117
cg15849098	7	150211761	S_Shore	GIMAP7	-24.160955	5.29E-05	0.030117
cg11982525	7	106505688	Other	PIK3CG	-25.838656	5.29E-05	0.030117
cg19744173	2	112913178	N_Shelf	FBLN7	-61.815999	5.32E-05	0.030218
cg18315380	7	1095666	Other	GPR146	-42.597287	5.37E-05	0.03038
cg11578064	12	112074044	N_Shore	NA	30.762188	5.37E-05	0.03038
cg06462065	19	55885168	N_Shelf	TMEM190	-58.381893	5.43E-05	0.03038
cg09723979	11	19736248	S_Shore	LOC100126784	127.238147	5.44E-05	0.03038
cg15776617	2	9324111	Other	NA	-31.721869	5.45E-05	0.03038
cg26215003	X	20431166	Other	NA	-80.630789	5.45E-05	0.03038
cg23445003	7	101535821	Other	CUX1	-44.354258	5.46E-05	0.03038
cg06626655	1	38099916	Island	RSPO1	127.698886	5.48E-05	0.03038
cg11802899	14	52867870	Other	NA	-57.146647	5.48E-05	0.03038
cg02670637	1	56184693	Other	NA	46.7950154	5.49E-05	0.03038
cg09337852	7	134464288	Other	CALD1	72.0380486	5.49E-05	0.03038
cg27151122	12	50447407	S_Shore	ASIC1	-64.360064	5.50E-05	0.03038
cg12127196	1	50489240	N_Shore	AGBL4	46.7685896	5.50E-05	0.03038
cg02592062	19	19043788	N_Shelf	HOMER3	-55.469884	5.50E-05	0.03038
cg03254137	17	17661258	Other	RAI1	-79.213444	5.51E-05	0.03038
cg02586212	1	192544902	Other	RGS1	-70.00963	5.61E-05	0.030716
cg22771161	19	4788146	N_Shelf	FEM1A	30.8204737	5.62E-05	0.030716
cg06579738	11	111165311	N_Shelf	C11orf93	28.5172713	5.63E-05	0.030716
cg18569141	15	90727995	S_Shelf	SEMA4B	74.0983128	5.64E-05	0.030716
cg17013990	1	161091682	Island	NIT1	-51.658016	5.64E-05	0.030716
cg14619064	17	56355331	Island	MPO	-81.393166	5.65E-05	0.030716
cg10163050	X	153637650	N_Shelf	DNASE1L1	-71.771804	5.66E-05	0.030716
cg20100768	13	80706924	Other	NA	89.0826798	5.67E-05	0.030716
cg25744957	4	7106195	Other	FLJ36777	-88.289387	5.68E-05	0.030716
cg19039313	2	136634366	S_Shore	MCM6	-30.798233	5.69E-05	0.030716
cg23590660	12	8205602	Other	FOXJ2	-36.4027	5.70E-05	0.030716
cg23165541	15	64338164	Island	DAPK2	39.9780891	5.71E-05	0.030716
cg18186672	2	71679841	N_Shore	DYSF	-31.940136	5.72E-05	0.030716
cg01945913	5	1469001	S_Shore	LPCAT1	-95.249811	5.73E-05	0.030716
cg18121946	17	12697550	S_Shelf	ARHGAP44	-91.704937	5.74E-05	0.030716
cg26688315	2	218027591	Other	NA	63.2841044	5.75E-05	0.030718
cg24126180	7	128580582	S_Shore	IRF5	-58.971168	5.77E-05	0.030718
cg21067465	11	86304288	Other	ME3	-44.151936	5.78E-05	0.030718
cg24259363	3	8525217	Other	LMCD1-AS1	34.0560537	5.80E-05	0.030718

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg02794695	8	134072611	Other	SLA	-56.421103	5.80E-05	0.030718
cg27560796	6	33864689	Other	LOC100507584	32.3093542	5.81E-05	0.030718
cg15722438	19	8552601	S_Shore	HNRNPM	-59.268855	5.84E-05	0.030718
cg05117638	6	113952661	Other	NA	-36.121565	5.85E-05	0.030718
cg02342791	15	31508943	S_Shore	NA	-42.666964	5.87E-05	0.030718
cg05711445	7	139528855	Other	TBXAS1	-37.422354	5.87E-05	0.030718
cg26413855	6	30796199	Other	NA	34.4950877	5.88E-05	0.030718
cg17146738	7	98739698	Other	SMURF1	69.0115106	5.89E-05	0.030718
cg24778004	2	121461039	N_Shore	NA	-44.626545	5.89E-05	0.030718
cg16771652	16	50730385	Other	NOD2	-55.905993	5.89E-05	0.030718
cg04055490	17	8059012	N_Shore	PER1	44.393211	5.91E-05	0.030734
cg07721872	16	87735256	N_Shore	NA	-159.19381	5.91E-05	0.030734
cg16911810	2	119596346	N_Shelf	NA	-49.344465	5.94E-05	0.030817
cg09676376	12	54779077	Other	ZNF385A	-68.913194	5.96E-05	0.030865
cg17918556	2	169372300	Other	CERS6	32.8175336	6.01E-05	0.031076
cg07224067	17	48555565	N_Shore	RSAD1	52.9997514	6.04E-05	0.031144
cg18759732	2	65889827	Other	NA	45.2726432	6.06E-05	0.031168
cg00520380	22	31643997	Other	LIMK2	64.9213663	6.08E-05	0.031168
cg02647408	11	88241594	N_Shore	GRM5-AS1	-54.307039	6.09E-05	0.031168
cg14745748	11	45717986	Other	NA	-106.53306	6.10E-05	0.031168
cg27214856	22	46473343	Other	NA	44.0128288	6.11E-05	0.031168
cg02780988	17	39646994	Other	KRT36	-60.872375	6.11E-05	0.031168
cg15275312	3	50363059	Other	TUSC2	-75.405832	6.14E-05	0.031169
cg01578632	16	69958298	Other	WWP2	27.2703328	6.14E-05	0.031169
cg14495916	3	171800301	N_Shelf	FNDC3B	30.5904295	6.14E-05	0.031169
cg22720761	1	159769263	Other	FCRL6	-93.861635	6.16E-05	0.031195
cg07868561	5	148434089	Other	SH3TC2	32.1033906	6.18E-05	0.031195
cg04602992	17	62009628	Other	CD79B	-42.03323	6.18E-05	0.031195
cg09783905	6	30294179	N_Shelf	HCG17	1209.72466	6.22E-05	0.031226
cg16785938	4	10022984	Island	SLC2A9	-68.535457	6.22E-05	0.031226
cg01986263	20	58659848	S_Shore	NA	-59.656444	6.22E-05	0.031226
cg14565465	9	74298933	Other	TMEM2	-36.471909	6.25E-05	0.031252
cg00667937	2	168572563	Island	NA	-62.246075	6.26E-05	0.031252
cg14386312	19	58740861	S_Shore	ZNF544	57.2257572	6.29E-05	0.031252
cg04078115	22	33278114	Other	SYN3	-54.510223	6.30E-05	0.031252
cg17000076	10	1780263	Island	ADARB2	82.6575521	6.31E-05	0.031252
cg07959070	22	50026188	S_Shore	C22orf34	24.4334634	6.31E-05	0.031252
cg07103201	17	20171047	Other	SPECC1	-29.262013	6.32E-05	0.031252
cg03802185	7	101927846	N_Shore	SH2B2	-72.28809	6.33E-05	0.031252
cg19648306	2	179184854	Other	OSBPL6	-29.963656	6.34E-05	0.031252
cg00122679	10	125673028	Other	NA	-37.248482	6.34E-05	0.031252

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg13131034	6	7590591	Island	SNRNP48	1387.97862	6.37E-05	0.031334
cg09914444	1	46972183	Other	DMBX1	-55.355707	6.38E-05	0.031334
cg16230060	5	80530213	Other	CKMT2	-94.591778	6.42E-05	0.031438
cg12885302	10	129979348	Other	NA	-23.700926	6.44E-05	0.031438
cg21918313	2	73496203	Island	FBXO41	36.9866295	6.44E-05	0.031438
cg01011367	10	124798692	Other	ACADSB	-46.473583	6.46E-05	0.031438
cg18576206	22	44392384	S_Shore	PARVB	-44.867489	6.55E-05	0.031438
cg06532880	5	176731545	Island	PRELID1	294.443443	6.55E-05	0.031438
cg01604601	2	69846936	Other	AAK1	-46.120172	6.56E-05	0.031438
cg14774440	8	37730745	Other	RAB11FIP1	-29.845515	6.56E-05	0.031438
cg09977847	2	217070953	Other	XRCC5	-47.589468	6.56E-05	0.031438
cg02284273	10	14051679	N_Shelf	FRMD4A	42.4677388	6.57E-05	0.031438
cg01033001	14	94637734	Other	PPP4R4	35.2444197	6.57E-05	0.031438
cg20116800	17	74258224	N_Shore	UBALD2	-32.510439	6.59E-05	0.031438
cg26453169	5	57787167	N_Shelf	GAPT	-32.039548	6.59E-05	0.031438
cg12104246	6	24718589	Other	C6orf62	53.8798322	6.59E-05	0.031438
cg03479289	11	33563377	Other	KIAA1549L	-73.015809	6.60E-05	0.031438
cg12315466	2	233923814	N_Shore	INPP5D	-101.12412	6.60E-05	0.031438
cg02138124	8	37901697	Other	EIF4EBP1	41.828966	6.61E-05	0.031438
cg08854586	13	34094789	Other	STARD13	33.9620545	6.62E-05	0.031438
cg12119858	12	7023195	N_Shore	ENO2	54.0100795	6.63E-05	0.031438
cg16836678	11	76836460	Other	MYO7A	-51.466026	6.64E-05	0.031438
cg17707487	13	114261869	S_Shore	TFDP1	-46.752268	6.65E-05	0.031438
cg20943461	17	76126886	N_Shore	TMC8	-33.003007	6.65E-05	0.031438
cg25332502	18	74832372	S_Shore	MBP	-89.771267	6.66E-05	0.031438
cg19761273	17	80232096	S_Shore	CSNK1D	91.1102529	6.69E-05	0.031438
cg13850871	9	139583773	S_Shore	AGPAT2	-41.36064	6.69E-05	0.031438
cg04125371	15	48937213	N_Shore	FBN1	956.993122	6.70E-05	0.031438
cg00231274	7	1263233	Island	NA	-49.08049	6.70E-05	0.031438
cg11589536	3	46250518	Other	CCR1	-73.545345	6.71E-05	0.03145
cg09137125	10	7486981	Other	NA	-49.518472	6.75E-05	0.031464
cg04535945	5	137781554	Other	REEP2	-95.56207	6.78E-05	0.031464
cg13972706	6	144671686	Other	UTRN	-23.489785	6.78E-05	0.031464
cg23374992	2	136872067	N_Shore	CXCR4	-33.515623	6.80E-05	0.031464
cg10126903	16	29675214	N_Shelf	SPN	-54.111247	6.80E-05	0.031464
cg09624565	22	37256900	Other	NCF4	-41.763732	6.81E-05	0.031464
cg11787176	14	96643191	Other	NA	41.2942289	6.82E-05	0.031464
cg13121428	14	76446161	N_Shelf	TGFB3	34.9195492	6.82E-05	0.031464
cg01111041	6	32121055	Other	PPT2	45.4465797	6.85E-05	0.031464
cg00974864	1	161601053	N_Shore	FCGR3B	-74.841087	6.85E-05	0.031464
cg19118972	3	184323327	S_Shore	NA	-73.377383	6.85E-05	0.031464

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg07721547	22	42475119	N_Shore	SMDT1	65.7790165	6.88E-05	0.031464
cg18766033	5	73729290	Other	NA	-40.165425	6.88E-05	0.031464
cg23129452	X	48542179	Other	WAS	-44.685286	6.88E-05	0.031464
cg16017420	12	1642879	S_Shelf	NA	-52.649623	6.89E-05	0.031464
cg18835472	6	26546056	Other	HMGNA4	-45.368622	6.90E-05	0.031464
cg16960675	3	58626434	Other	FAM3D	335.7137	6.91E-05	0.031464
cg01997629	1	209929622	Other	TRAF3IP3	-54.285562	6.92E-05	0.031464
cg05703096	16	66887291	Other	CA7	-36.56776	6.96E-05	0.031583
cg26967723	5	169617918	Other	NA	-78.238164	6.97E-05	0.031583
cg16362481	2	128413009	S_Shelf	LIMS2	-64.317409	6.98E-05	0.031596
cg03514239	1	153329781	Other	S100A9	-82.308537	6.99E-05	0.031601
cg05897963	19	30157918	S_Shore	PLEKHF1	46.5348083	7.01E-05	0.031629
cg08659179	5	27038707	Other	CDH9	76.3421162	7.04E-05	0.03168
cg00620452	3	32147645	N_Shore	GPD1L	54.0359961	7.05E-05	0.03168
cg01250001	8	103758088	Other	NA	23.7325835	7.07E-05	0.03168
cg19590858	14	35009852	S_Shore	EAPP	-63.712312	7.08E-05	0.03168
cg07389611	17	59540267	S_Shore	TBX4	-38.498093	7.09E-05	0.03168
cg20674521	22	38850521	N_Shore	KCNJ4	-45.422345	7.09E-05	0.03168
cg06508867	16	87814178	S_Shore	NA	-51.428365	7.11E-05	0.0317
cg07631435	11	114043903	Other	ZBTB16	-39.24105	7.15E-05	0.031813
cg01479396	17	7529693	N_Shore	SAT2	-58.714853	7.16E-05	0.031813
cg21877005	1	109242103	Other	PRPF38B	-63.566367	7.17E-05	0.031813
cg15965716	1	164688315	Other	PBX1	27.5890228	7.18E-05	0.031839
cg08952844	2	88313351	N_Shelf	NA	-65.142176	7.22E-05	0.031945
cg02671382	1	120457856	Other	NOTCH2	56.3286128	7.25E-05	0.031945
cg23682913	1	2080710	N_Shore	PRKCZ	-57.147849	7.25E-05	0.031945
cg26360402	14	105973994	Other	NA	-45.217354	7.25E-05	0.031945
cg26154999	2	225266346	Other	FAM124B	-38.387712	7.30E-05	0.032085
cg13320202	3	63899097	S_Shore	ATXN7	41.5345289	7.35E-05	0.032233
cg01991752	14	101014148	S_Shore	BEGAIN	-44.892109	7.35E-05	0.032233
cg01120874	9	133811816	N_Shore	FIBCD1	-46.847704	7.37E-05	0.032274
cg13279083	4	110128090	Other	COL25A1	42.0812039	7.39E-05	0.032294
cg25864762	7	1850388	Other	NA	40.5682569	7.41E-05	0.032294
cg13394491	5	15737401	Other	FBXL7	38.2214775	7.42E-05	0.032294
cg26215869	14	73384273	S_Shore	NA	-40.341832	7.44E-05	0.032294
cg09307264	17	4902281	Other	KIF1C	46.3616466	7.44E-05	0.032294
cg08802053	5	92932045	S_Shore	MIR548AO	-51.181217	7.45E-05	0.032294
cg11783014	6	149285854	Other	LOC100128176	-81.318564	7.52E-05	0.032516
cg02861504	1	207144367	Other	FCAMR	-58.530548	7.53E-05	0.032516
cg27294164	1	36585141	Other	NA	31.9216331	7.54E-05	0.032516
cg10732094	19	45957466	S_Shelf	NA	-52.801745	7.57E-05	0.032516

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg25524052	4	182795806	Other	NA	-112.89824	7.58E-05	0.032516
cg23530268	17	74925720	Island	MGAT5B	-21.463283	7.59E-05	0.032516
cg04681525	9	132145577	N_Shelf	NA	-74.065212	7.59E-05	0.032516
cg03342032	13	94725495	Other	GPC6	26.8940009	7.61E-05	0.032516
cg26915370	7	134575524	Other	CALD1	24.3065454	7.61E-05	0.032516
cg03857553	22	29976613	N_Shore	NIPSNAP1	25.2325714	7.62E-05	0.032516
cg04086097	7	128580792	S_Shelf	IRF5	-37.686708	7.67E-05	0.032516
cg23501051	11	19736912	S_Shore	LOC100126784	24.2709533	7.69E-05	0.032516
cg25975856	3	19930780	Other	EFHB	72.3396141	7.69E-05	0.032516
cg26938118	18	56059556	S_Shore	NEDD4L	53.8428493	7.70E-05	0.032516
cg21252523	7	27254071	Other	NA	-58.265221	7.70E-05	0.032516
cg07595602	1	240783371	Other	NA	35.2570463	7.72E-05	0.032516
cg24902557	14	105715464	Island	BRF1	171.456873	7.73E-05	0.032516
cg25983531	7	36765142	Other	AOAH	-25.653265	7.73E-05	0.032516
cg26889953	15	22915992	Other	CYFIP1	-37.910105	7.73E-05	0.032516
cg13819552	9	95799870	Island	NA	-45.682571	7.74E-05	0.032516
cg00258809	3	72704324	Other	NA	155.597744	7.74E-05	0.032516
cg09580822	10	130834003	Other	NA	-33.099405	7.77E-05	0.032572
cg22694635	19	36362894	N_Shelf	APLP1	-70.97253	7.78E-05	0.032572
cg07031070	6	28543670	Other	SCAND3	-64.503634	7.79E-05	0.032572
cg09372486	19	31845489	Island	NA	-52.593508	7.86E-05	0.032741
cg03315764	1	29448425	S_Shore	TMEM200B	192.54359	7.86E-05	0.032741
cg16217908	3	111809470	S_Shelf	C3orf52	-29.026416	7.86E-05	0.032741
cg13857210	9	138999217	Other	NA	-39.697262	7.88E-05	0.032754
cg05654164	1	85725892	S_Shore	C1orf52	39.3789643	7.89E-05	0.032767
cg17050616	22	50585229	Other	MOV10L1	36.3899892	7.92E-05	0.032825
cg10763594	2	218258333	Other	DIRC3	24.8140147	7.93E-05	0.032825
cg05212260	17	39791766	Other	KRT42P	38.5443991	7.97E-05	0.032902
cg15417654	3	187959138	Other	LPP	46.5239465	7.98E-05	0.032902
cg14515803	14	100120874	S_Shore	HHIPL1	22.4873971	8.01E-05	0.032902
cg04718447	16	85518989	N_Shore	NA	-54.464757	8.02E-05	0.032902
cg22787468	17	27309113	N_Shelf	SEZ6	-77.08763	8.04E-05	0.032902
cg04467549	17	79921715	S_Shore	NOTUM	-67.416943	8.05E-05	0.032902
cg23517605	6	3228365	Island	TUBB2B	67.7430148	8.06E-05	0.032902
cg14188712	13	31942544	Other	NA	-69.50033	8.07E-05	0.032902
cg03838168	X	48433876	S_Shore	RBM3	73.8164192	8.09E-05	0.032902
cg00471059	5	179562620	N_Shore	RASGEF1C	-96.146568	8.12E-05	0.032902
cg22609908	12	858759	N_Shelf	WNK1	-27.746081	8.12E-05	0.032902
cg17675088	5	93013224	Other	FAM172A	30.134072	8.13E-05	0.032902
cg26258213	10	127220321	Other	NA	25.248022	8.13E-05	0.032902
cg04913246	14	99658630	Other	BCL11B	113.37688	8.13E-05	0.032902

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg13725803	13	51640297	Other	GUCY1B2	-71.12688	8.14E-05	0.032902
cg03841081	3	150967799	Other	P2RY14	-73.753135	8.14E-05	0.032902
cg16706749	15	74222816	S_Shelf	LOXL1-AS1	54.460569	8.16E-05	0.032938
cg26158133	5	72824251	Other	NA	-23.602323	8.17E-05	0.032944
cg19186380	12	54427029	Island	HOXC5	48.1303627	8.19E-05	0.032966
cg17975379	6	4893429	Other	CDYL	-50.88186	8.23E-05	0.03306
cg26371957	12	739280	Other	NINJ2	-18.039461	8.24E-05	0.03306
cg27306802	1	3510561	N_Shore	MEGF6	-26.420823	8.26E-05	0.033097
cg01921323	7	153881192	Other	DPP6	40.3956678	8.27E-05	0.033097
cg05752118	11	2920564	N_Shelf	SLC22A18	-73.539099	8.29E-05	0.033115
cg18479249	6	19180718	Other	NA	34.8260925	8.37E-05	0.033393
cg14371731	10	81003175	Island	ZMIZ1	55.4803042	8.39E-05	0.033393
cg07051833	12	93808395	Other	UBE2N	-41.27514	8.40E-05	0.033393
cg24872300	19	607586	N_Shelf	HCN2	-52.246005	8.41E-05	0.033393
cg01102073	3	128204813	N_Shore	GATA2	49.4328299	8.42E-05	0.033393
cg06958766	14	76446087	N_Shelf	TGFB3	27.8073681	8.43E-05	0.033393
cg18809126	3	11623526	Other	VGLL4	36.8765817	8.44E-05	0.033393
cg25228625	17	8127373	S_Shore	LINC00324	37.3384812	8.48E-05	0.033525
cg25600256	4	127837396	Other	NA	75.18206	8.50E-05	0.033527
cg10154597	10	134910271	N_Shore	GPR123	26.9039602	8.51E-05	0.033538
cg14688905	12	51403056	Other	SLC11A2	-64.274549	8.56E-05	0.033542
cg23013850	2	225266304	Other	FAM124B	-33.557425	8.58E-05	0.033542
cg02083676	3	127311156	S_Shore	TPRA1	-66.328298	8.59E-05	0.033542
cg11147094	15	88420438	Other	NTRK3	-97.948871	8.61E-05	0.033542
cg07699546	1	201790194	Other	NAV1	-45.073037	8.62E-05	0.033542
cg13826666	9	136600241	Other	SARDH	-52.614807	8.63E-05	0.033542
cg11569159	12	115172959	N_Shore	NA	-38.318404	8.64E-05	0.033542
cg20379671	22	39320879	N_Shelf	NA	31.7452641	8.66E-05	0.033542
cg17974247	18	77336267	Island	NA	25.0998935	8.67E-05	0.033542
cg12158889	2	84663044	Other	SUCLG1	66.0096053	8.68E-05	0.033542
cg09424308	4	7046094	N_Shore	TADA2B	39.371053	8.69E-05	0.033542
cg04267345	14	24835104	S_Shore	NFATC4	393.208264	8.69E-05	0.033542
cg25432518	7	1894300	N_Shore	MAD1L1	-68.344806	8.69E-05	0.033542
cg18624544	14	21567646	Other	ZNF219	25.0347996	8.72E-05	0.033542
cg06690535	3	196352142	S_Shore	NA	-41.699824	8.72E-05	0.033542
cg14015015	6	35327915	Island	PPARD	38.5258715	8.73E-05	0.033542
cg12378878	13	50700606	Other	DLEU2	-41.39821	8.73E-05	0.033542
cg05533539	17	44104521	Other	MAPT	-54.344552	8.74E-05	0.033542
cg21734175	12	121107042	Other	NA	34.462829	8.76E-05	0.033542
cg02169391	7	130126176	Island	MEST	-43.977257	8.77E-05	0.033542
cg25520910	2	114576197	Other	NA	33.3861772	8.77E-05	0.033542

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg20098854	8	898407	Other	ERICH1-AS1	-39.50208	8.81E-05	0.033542
cg10825315	14	81425912	Other	TSHR	-42.255061	8.81E-05	0.033542
cg08564172	5	73833812	Other	NA	-21.557534	8.82E-05	0.033542
cg26488183	15	75195105	Other	FAM219B	-70.700112	8.83E-05	0.033542
cg02497428	16	21665138	N_Shelf	IGSF6	-48.433892	8.83E-05	0.033542
cg07571344	20	1472071	Other	SIRPB2	-37.774985	8.84E-05	0.033542
cg24425149	13	75991251	Other	TBC1D4	-36.797714	8.85E-05	0.033542
cg05714729	18	33234096	Other	GALNT1	-58.523541	8.86E-05	0.033557
cg07276534	3	193534580	Other	NA	36.6406005	8.88E-05	0.033575
cg11870455	3	187491295	Other	NA	-40.326649	8.94E-05	0.033744
cg07617207	2	161920006	Other	NA	31.8778341	8.95E-05	0.033744
cg24782497	19	18385409	Other	KIAA1683	-65.480982	8.96E-05	0.033744
cg05494008	8	145579285	S_Shore	TMEM249	-63.748505	8.98E-05	0.033761
cg15739581	2	166626783	Other	GALNT3	-73.61659	9.00E-05	0.033789
cg11795276	12	54454252	Island	FLJ12825	-35.226367	9.02E-05	0.033802
cg22904401	5	92947872	Other	MIR548AO	55.6556199	9.03E-05	0.033802
cg23668195	2	62805851	Island	NA	21.0358551	9.05E-05	0.033802
cg23476456	X	110039192	Other	CHRD1	73.376642	9.05E-05	0.033802
cg04179148	14	94858339	Other	SERPINA1	-69.929787	9.07E-05	0.033802
cg23850913	6	15505452	Other	JARID2	47.6544231	9.07E-05	0.033802
cg14510967	11	2321803	Other	C11orf21	-54.039621	9.08E-05	0.033807
cg18343862	11	10590003	Other	LYVE1	-59.827923	9.10E-05	0.033807
cg24607398	3	37033625	N_Shore	EPM2AIP1	31.1669106	9.12E-05	0.033844
cg18046677	19	49220142	N_Shelf	MAMSTR	36.1283756	9.13E-05	0.033844
cg14138312	9	6869699	Other	KDM4C	-141.79004	9.14E-05	0.033844
cg02863169	2	45173548	S_Shore	SIX3	-92.945938	9.16E-05	0.033873
cg11300147	12	7596703	S_Shelf	CD163L1	-25.391148	9.21E-05	0.034018
cg10283690	1	245027135	Other	HNRNPU	1783.47743	9.25E-05	0.034018
cg19716542	1	52302074	Island	MIR761	-235.06378	9.25E-05	0.034018
cg09197279	2	196966508	Other	NA	42.9359074	9.25E-05	0.034018
cg09683440	16	83869927	Other	NA	-22.726224	9.27E-05	0.034018
cg12081303	1	161039681	Other	ARHGAP30	-59.154257	9.27E-05	0.034018
cg01416295	1	156710278	N_Shore	MRPL24	172.927057	9.31E-05	0.034093
cg18662080	13	29057716	Other	FLT1	41.0362205	9.32E-05	0.034093
cg12080566	2	75798232	Other	EVA1A	68.6758207	9.38E-05	0.034275
cg19832184	20	33578069	Other	MIR499A	-107.77107	9.47E-05	0.034435
cg21910709	5	893665	S_Shore	TRIP13	35.5168239	9.48E-05	0.034435
cg11697038	1	27931284	S_Shore	AHDC1	41.9695138	9.48E-05	0.034435
cg06389605	6	168147420	Other	NA	-95.764787	9.49E-05	0.034435
cg09976669	11	9738663	Other	SWAP70	-25.628965	9.49E-05	0.034435
cg24361808	22	46477834	Other	MIRLET7BHG	47.4950723	9.51E-05	0.034435

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg09076077	20	58630315	N_Shelf	C20orf197	-49.71534	9.51E-05	0.034435
cg07517739	10	132364391	N_Shore	NA	24.2072669	9.52E-05	0.034435
cg25487405	22	46473039	Other	NA	39.9093948	9.54E-05	0.034451
cg01636910	1	85740751	N_Shore	LOC646626	-22.199594	9.57E-05	0.034507
cg12646804	5	2008188	Island	NA	37.6301463	9.62E-05	0.034637
cg19998150	10	14051838	Other	FRMD4A	50.3309934	9.63E-05	0.034637
cg03977385	16	48468609	Other	NA	-35.091972	9.65E-05	0.034637
cg23379806	10	14650660	S_Shelf	FAM107B	-53.741082	9.65E-05	0.034637
cg02217815	22	36890079	N_Shelf	FOXRED2	-37.202019	9.67E-05	0.034641
cg08354401	5	177824353	S_Shore	COL23A1	48.8848468	9.69E-05	0.034661
cg20316779	1	225997649	Island	EPHX1	696.426105	9.70E-05	0.034661
cg12926693	6	36665611	Other	RAB44	-50.239058	9.72E-05	0.034661
cg26863600	19	2616921	S_Shelf	GNG7	-25.101339	9.72E-05	0.034661
cg07431973	14	52142383	Other	FRMD6	30.2567186	9.78E-05	0.03476
cg24087669	5	5419515	N_Shelf	KIAA0947	43.6001495	9.79E-05	0.03476
cg13134916	12	25707564	Other	IFLTD1	-58.895813	9.80E-05	0.03476
cg22325580	8	1899943	Other	ARHGEF10	-71.317349	9.81E-05	0.03476
cg08433504	15	39872071	N_Shore	THBS1	57.7380633	9.84E-05	0.03476
cg03389926	2	42651266	Other	NA	26.4210082	9.85E-05	0.03476
cg14527344	6	28554680	N_Shore	SCAND3	48.4684153	9.85E-05	0.03476
cg01117339	11	73737124	Other	NA	-50.916874	9.86E-05	0.03476
cg03891346	11	121970725	Other	MIR125B1	25.187608	9.91E-05	0.03476
cg19925518	10	90851787	Other	NA	-26.374363	9.91E-05	0.03476
cg08817540	3	108020727	Other	HHLA2	-28.44846	9.92E-05	0.03476
cg25226226	17	47591494	S_Shore	NGFR	55.4557266	9.93E-05	0.03476
cg27542466	15	90728004	Island	SEMA4B	58.0214643	9.93E-05	0.03476
cg25569396	6	11382769	N_Shelf	NEDD9	-48.025083	9.95E-05	0.03476
cg13338454	4	77659228	Other	SHROOM3	23.8713762	9.95E-05	0.03476
cg11882304	5	159456907	Other	TTC1	46.0647185	9.96E-05	0.03476
cg24089887	13	74899532	Other	NA	33.9341291	9.96E-05	0.03476
cg14909495	7	150549472	Other	AOC1	-57.459481	9.98E-05	0.034789
cg06059409	11	73036247	Other	ARHGEF17	46.3570849	0.0001	0.03482
cg00504782	1	111037272	Other	NA	-44.015169	0.0001	0.03482
cg05667818	7	116786870	Other	ST7-AS2	-58.940947	0.0001	0.03482
cg06898214	22	50585400	Other	MOV10L1	24.3805404	0.0001	0.03482
cg02691685	19	55851042	Island	SUV420H2	2330.87376	0.000101	0.03482
cg19801705	5	180542156	Island	NA	187.469554	0.000101	0.034849
cg15953461	14	77489763	N_Shelf	NA	33.9270599	0.000101	0.034977
cg04233230	1	155910958	Other	RXFP4	-68.905369	0.000101	0.034977
cg13039082	11	77123331	S_Shore	PAK1	32.903257	0.000101	0.034977
cg00107982	22	37813098	N_Shelf	ELFN2	-21.073564	0.000102	0.035008

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg00283535	8	124749564	Other	ANXA13	35.4200659	0.000102	0.035032
cg04206724	16	11027999	Other	DEXI	-181.93937	0.000102	0.035044
cg03739609	6	31555016	Other	LST1	-66.050958	0.000103	0.035207
cg05499338	16	81517665	Other	CMIP	-109.68633	0.000103	0.035209
cg15358372	10	71108752	Other	HK1	-26.764387	0.000103	0.035209
cg08550394	16	4013659	N_Shore	ADCY9	-44.019239	0.000103	0.035215
cg08914797	11	126870648	S_Shore	KIRREL3	339.810539	0.000103	0.03524
cg13019306	5	145155873	Other	PRELID2	32.0750866	0.000103	0.03524
cg20927119	7	149999961	Other	ACTR3C	-42.243886	0.000104	0.03538
cg00453717	11	74344629	Other	POLD3	-105.75305	0.000104	0.03538
cg13594542	9	138850547	N_Shelf	UBAC1	-57.713815	0.000104	0.03538
cg03398002	1	15272082	Other	KAZN	28.527693	0.000104	0.035387
cg10959668	3	195897912	Other	NA	-60.239882	0.000104	0.035406
cg20701531	2	121583695	Other	GLI2	41.4583759	0.000105	0.035416
cg26124860	3	42918681	N_Shelf	CYP8B1	-95.725824	0.000105	0.035458
cg10871721	21	46235052	N_Shore	SUMO3	-52.325995	0.000105	0.035458
cg15234627	13	33837178	Other	STARD13	-55.530336	0.000105	0.035517
cg02026204	22	30663007	Other	OSM	-39.5961	0.000105	0.035517
cg13247967	11	123487358	Other	GRAMD1B	30.3175452	0.000106	0.035583
cg14779327	7	137931748	Other	NA	70.8591819	0.000106	0.035583
cg13705284	3	58523313	Other	ACOX2	31.5210196	0.000106	0.035583
cg16734981	11	109259766	Other	NA	-21.775644	0.000106	0.035583
cg25210609	1	19642293	S_Shelf	PQLC2	-71.228787	0.000106	0.035592
cg17074396	22	49843754	Island	NA	85.5220637	0.000106	0.035592
cg04972244	16	57117433	Other	NLRC5	-73.498873	0.000107	0.035636
cg21616142	22	28076037	S_Shore	NA	-71.384744	0.000107	0.035636
cg04890406	3	48647370	Island	UQCRC1	126.639211	0.000107	0.035636
cg05923857	10	114911615	Other	TCF7L2	-41.246371	0.000107	0.035636
cg24674220	20	62251901	Other	GMEB2	80.4512236	0.000107	0.035636
cg09999348	2	46398848	Other	PRKCE	45.01666	0.000107	0.035657
cg15806306	11	2893385	S_Shelf	KCNQ1DN	-50.646315	0.000108	0.035657
cg26053480	7	25898758	Island	NA	-45.618353	0.000108	0.035661
cg03277819	12	772529	Other	NINJ2	25.9606594	0.000108	0.035661
cg08310008	12	52836644	Other	NA	54.3573269	0.000108	0.035661
cg02978220	1	108337960	Other	VAV3	-83.830841	0.000108	0.035748
cg02935298	22	43036734	Other	ATP5L2	-62.602526	0.000108	0.035748
cg26363555	11	121973044	Other	MIR125B1	27.8239643	0.000109	0.035748
cg03313654	16	863510	Island	PRR25	128.999295	0.000109	0.035771
cg10277646	2	129079038	N_Shore	HS6ST1	-98.595096	0.000109	0.035848
cg24149590	14	75867231	Other	NA	-47.156104	0.000109	0.035848
cg09146459	6	32921200	Other	HLA-DMA	-31.138757	0.00011	0.035976

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg06218186	7	99691644	Other	MIR106B	50.059469	0.00011	0.036016
cg26545040	19	994110	Island	WDR18	36.4884825	0.00011	0.036016
cg23666844	7	151137882	S_Shore	CRYGN	67.0033818	0.00011	0.036016
cg16302816	11	16834800	Other	PLEKHA7	-50.71777	0.00011	0.036016
cg19760965	3	194868843	Other	XXYL1-AS2	-58.178134	0.000111	0.036016
cg10781468	6	168778312	Other	NA	36.7370265	0.000111	0.036016
cg04381249	20	61404888	S_Shore	LINC00659	36.4940906	0.000111	0.036016
cg16129800	11	2920414	N_Shelf	SLC22A18	-55.755084	0.000111	0.036016
cg24475272	4	140432613	Other	SETD7	-34.791161	0.000111	0.036073
cg20271057	3	16974160	Other	PLCL2	-56.892105	0.000111	0.036073
cg05619785	6	32078574	Other	TNXB	31.7331115	0.000112	0.036073
cg00343906	1	1696692	Other	NADK	-94.810816	0.000112	0.036073
cg17828057	8	42037527	Other	PLAT	-45.482398	0.000112	0.036073
cg17182817	10	112624555	Other	NA	-25.255219	0.000112	0.036073
cg07684519	12	29303184	S_Shore	FAR2	-65.921056	0.000112	0.036083
cg23787937	12	29303160	S_Shore	FAR2	-48.959565	0.000112	0.036083
cg08160072	2	40009501	S_Shelf	THUMPD2	-43.90711	0.000112	0.036107
cg11141696	1	161700167	S_Shelf	NA	-39.670847	0.000113	0.036111
cg19947463	7	1113237	Other	C7orf50	-31.873447	0.000113	0.036111
cg14613786	18	48255506	N_Shore	MAPK4	-71.9563	0.000113	0.036111
cg24394336	1	17962705	Other	ARHGEF10L	-55.827939	0.000113	0.036111
cg12929160	13	77030645	Other	NA	-43.050911	0.000113	0.036111
cg18710162	17	33390808	Other	RFFL	-30.286724	0.000113	0.036111
cg12666279	2	115918745	Island	LOC389023	-197.78485	0.000113	0.036111
cg09289820	6	30421275	S_Shore	NA	-49.957179	0.000114	0.036111
cg07046426	2	237623903	Other	NA	-26.985795	0.000114	0.036111
cg12049550	1	65035261	Other	CACHD1	-65.52271	0.000114	0.036111
cg00790255	3	194032074	N_Shore	LINC00887	54.8151327	0.000114	0.036111
cg13577075	12	123444414	Island	ABCB9	-233.52292	0.000114	0.036111
cg10087754	7	2678263	Other	TTYH3	49.1087127	0.000114	0.036111
cg12661092	10	98861029	Other	LOC100505540	-78.296898	0.000114	0.036111
cg02574844	11	5959923	Other	NA	-23.482396	0.000115	0.036111
cg26830558	11	69874845	Other	NA	-69.012047	0.000115	0.036111
cg17012513	X	2984799	Other	ARSF	42.9626112	0.000115	0.036111
cg00975624	3	159646501	Other	NA	-45.009511	0.000115	0.036111
cg17869960	6	12718530	Other	PHACTR1	21.8937914	0.000115	0.036111
cg18320356	12	10103812	Other	CLEC12A	-38.175875	0.000115	0.036111
cg10405075	16	79463964	Other	NA	33.9239141	0.000115	0.036213
cg03116466	7	2116512	Island	MAD1L1	-73.237459	0.000116	0.036213
cg12751042	12	12874288	N_Shelf	CDKN1B	-24.518337	0.000116	0.036213
cg14347914	9	96706239	N_Shore	NA	-51.032596	0.000116	0.036252

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg02713951	22	46516291	N_Shelf	NA	42.2330575	0.000116	0.036252
cg02224021	19	836716	Island	PRTN3	-54.414551	0.000116	0.036258
cg00644351	10	121271840	Other	RGS10	-42.41105	0.000116	0.036272
cg07984358	10	24704829	Other	KIAA1217	37.2018693	0.000117	0.036331
cg10783294	12	679668	S_Shore	NINJ2	49.231977	0.000117	0.036331
cg27009704	5	118367693	Other	NA	-87.451279	0.000117	0.036346
cg15414034	19	10196462	N_Shore	C19orf66	45.8706389	0.000117	0.036352
cg03924115	9	133768966	Other	QRFP	-40.678045	0.000118	0.036352
cg02874658	12	52265308	S_Shelf	NA	-110.51566	0.000118	0.036352
cg07207490	11	118492463	Other	PHLDB1	21.871396	0.000118	0.036352
cg03190661	17	76126702	N_Shore	TMC8	-29.592845	0.000118	0.036352
cg26769927	16	29674972	N_Shore	SPN	-66.914924	0.000118	0.036352
cg26100303	3	114099712	Other	ZBTB20	30.3427039	0.000118	0.036352
cg14734668	10	20864693	Other	NA	-33.279717	0.000118	0.036368
cg21240684	2	3526841	S_Shelf	ADI1	40.7266147	0.000119	0.036501
cg06663317	16	56641101	N_Shore	MT2A	47.5913592	0.000119	0.036522
cg23139609	6	105901342	Other	NA	-31.067267	0.000119	0.036522
cg02993722	1	6698457	Other	DNAJC11	37.118625	0.00012	0.036608
cg04337358	14	98489522	Other	NA	-25.819636	0.00012	0.036608
cg10132694	19	54876752	Other	LAIR1	-41.483408	0.00012	0.03665
cg11772801	14	51711237	S_Shelf	TMX1	-56.677781	0.00012	0.036798
cg05689208	8	49496391	Other	NA	41.5934639	0.000121	0.036806
cg06495586	4	54424787	Other	LNX1	-27.864367	0.000121	0.036806
cg05874270	1	2559893	Island	MMEL1	56.8259177	0.000121	0.036836
cg07114627	1	110155839	Other	GNAT2	-57.999658	0.000121	0.036836
cg17973038	8	99395068	Other	NA	44.2566207	0.000121	0.036836
cg24691042	5	171708977	N_Shore	UBTD2	23.8401753	0.000121	0.036836
cg16813662	13	100650387	Island	NA	-49.963586	0.000122	0.036836
cg00353571	19	49238653	Island	RASIP1	52.9874685	0.000122	0.036836
cg06789856	17	77133777	N_Shore	RBFOX3	36.4597206	0.000122	0.036836
cg05568930	11	75522399	N_Shelf	UVRAG	-62.080045	0.000122	0.036836
cg21870662	17	2241570	S_Shore	SGSM2	92.8148716	0.000122	0.036836
cg20706196	1	109242775	Other	PRPF38B	-35.007657	0.000122	0.036836
cg10512278	16	68027839	S_Shore	DPEP2	-65.628038	0.000123	0.036836
cg12004276	11	33913586	Other	LMO2	-65.944145	0.000123	0.036836
cg06335008	2	99552109	N_Shore	KIAA1211L	103.513434	0.000123	0.036836
cg13071185	11	860134	S_Shore	TSPAN4	27.3888583	0.000123	0.036836
cg14502319	12	125167409	Other	NA	-60.831098	0.000123	0.036836
cg15432485	12	2039878	Other	LINC00940	-59.281428	0.000123	0.036836
cg01585860	6	75922610	Other	NA	-60.123925	0.000123	0.036836
cg20897136	10	74034667	Island	DDIT4	53.321931	0.000124	0.036836

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg07993586	7	157204960	N_Shore	DNAJB6	-157.40371	0.000124	0.036836
cg22148297	13	99910587	Other	GPR18	-43.319798	0.000124	0.036836
cg23526586	12	105917092	Other	NA	31.0573492	0.000124	0.036836
cg27285720	1	89664782	Other	GBP4	-21.503248	0.000124	0.036836
cg13149147	2	105757726	N_Shelf	NA	-52.304203	0.000125	0.036836
cg11691844	11	85460604	Other	SYTL2	-53.925419	0.000125	0.036836
cg15600966	6	31602257	S_Shelf	PRRC2A	89.9317886	0.000125	0.036836
cg15605124	1	3230250	Other	PRDM16	37.7753923	0.000125	0.036836
cg08993690	4	124621838	Other	LOC285419	26.6986967	0.000125	0.036836
cg09603024	20	48599292	Island	SNAI1	176.655841	0.000125	0.036836
cg07310671	16	85253980	Other	NA	40.1757675	0.000125	0.036836
cg14271729	14	57858383	S_Shore	NAA30	56.3716642	0.000125	0.036836
cg14772955	1	36024404	S_Shore	NCDN	61.7341574	0.000125	0.036836
cg24034453	17	17597825	Island	RAI1	170.999378	0.000125	0.036836
cg27452278	8	102178508	Other	NA	-84.528488	0.000126	0.036836
cg02395819	12	108237572	Island	NA	72.6227389	0.000126	0.036836
cg27540367	19	41848134	Other	TGFB1	-58.915891	0.000126	0.036836
cg06871560	15	52944233	Other	FAM214A	64.131718	0.000126	0.036836
cg24733384	14	35516283	S_Shore	FAM177A1	49.40684	0.000126	0.036836
cg19579652	10	433089	Other	DIP2C	27.2182735	0.000126	0.036836
cg13817037	9	36100589	Other	RECK	38.6562238	0.000126	0.036836
cg16588947	12	131498749	Other	GPR133	-131.24732	0.000127	0.036836
cg04509542	11	29358540	Other	NA	35.5159259	0.000127	0.036836
cg02124699	17	30590156	N_Shelf	RHBDL3	62.8199033	0.000127	0.036836
cg15719339	21	17960584	Other	MIR125B2	35.5031389	0.000127	0.036836
cg22911867	11	126173548	Island	DCPS	64.2646366	0.000127	0.036836
cg20978380	12	125001165	N_Shore	NCOR2	33.281085	0.000127	0.036836
cg26984593	10	14051636	Other	FRMD4A	44.8885081	0.000127	0.036836
cg16129526	14	69968273	Other	PLEKHD1	35.5493835	0.000127	0.036836
cg18275620	6	110591226	Other	METTL24	30.7679379	0.000127	0.036836
cg13043454	2	48980605	N_Shelf	LHCGR	-70.142874	0.000127	0.036836
cg13728131	11	19799633	S_Shore	NAV2	56.7727934	0.000128	0.036836
cg20535781	12	133465013	S_Shore	CHFR	49.419619	0.000128	0.036836
cg15382933	11	33745399	Other	CD59	-35.821905	0.000128	0.036836
cg22487204	1	156435421	Other	MEF2D	88.4269515	0.000128	0.036836
cg15674813	2	238608549	Other	LRRFIP1	-51.617855	0.000128	0.036836
cg12042264	20	44448693	N_Shelf	NA	-59.432309	0.000128	0.036836
cg15339981	12	2942368	Other	NRIP2	39.9240294	0.000128	0.036836
cg11410920	20	43997025	Other	SYS1-DBNDD2	-66.875783	0.000128	0.036836
cg21031128	8	21771278	S_Shore	DOK2	-47.831148	0.000129	0.036836
cg19102740	6	33860642	Other	LOC100507584	-79.600864	0.000129	0.036836

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14608454	9	140106083	N_Shore	NDOR1	-119.27574	0.000129	0.036836
cg26814335	8	6584320	Other	AGPAT5	-79.804248	0.000129	0.036836
cg05756918	7	27253707	Island	NA	-47.792921	0.000129	0.036867
cg25204955	10	72254314	Other	PALD1	-48.322886	0.00013	0.036971
cg25742037	11	2171694	Other	IGF2	35.9568574	0.00013	0.037021
cg00136477	1	22970339	N_Shelf	C1QC	-54.413519	0.00013	0.037056
cg02771464	22	19108494	N_Shore	DGCR2	33.0148572	0.000131	0.037094
cg03715057	6	164009761	Other	NA	-95.751053	0.000131	0.037094
cg14944269	14	65439602	S_Shore	RAB15	45.4477371	0.000131	0.037094
cg06673130	4	778924	Island	LOC100129917	-44.040786	0.000131	0.037094
cg04615460	12	115125098	Island	TBX3	-36.995063	0.000131	0.037094
cg07484220	16	136809	Other	NPRL3	26.7697629	0.000131	0.037094
cg15215077	6	119561839	Other	MAN1A1	-40.249272	0.000131	0.037094
cg09888840	11	57252371	S_Shore	SLC43A1	-78.42696	0.000131	0.037094
cg05125838	3	48601585	Other	UCN2	-64.618159	0.000131	0.037094
cg21268658	1	43998294	S_Shore	PTPRF	32.7020801	0.000132	0.037094
cg11480762	10	73103395	Other	SLC29A3	-68.177803	0.000132	0.037094
cg03690812	12	111875483	Other	SH2B3	-80.964684	0.000132	0.037094
cg18333339	3	112885856	Other	NA	39.9578434	0.000132	0.037139
cg17113856	6	32120895	N_Shore	PPT2	32.4609458	0.000132	0.037139
cg20087093	7	27142799	N_Shore	HOXA2	-22.588744	0.000132	0.037139
cg08183317	13	114261934	S_Shore	TFDP1	-54.859708	0.000133	0.037189
cg13344587	10	63723919	Other	ARID5B	41.6503237	0.000133	0.037189
cg25685359	22	46473721	Other	NA	53.4112328	0.000133	0.037189
cg24250588	1	43203008	N_Shore	CLDN19	-33.466093	0.000133	0.037189
cg05227055	16	89105031	N_Shelf	NA	145.251678	0.000134	0.0372
cg01191154	22	37593672	N_Shore	NA	35.5540195	0.000134	0.0372
cg18351781	19	4950888	Island	UHRF1	-64.807223	0.000134	0.0372
cg21785723	1	6551782	S_Shore	PLEKHG5	-62.285059	0.000134	0.0372
cg14272084	14	61685564	Other	NA	-32.164451	0.000134	0.0372
cg03301498	19	39889222	N_Shelf	MED29	-61.843928	0.000134	0.0372
cg23753807	17	1090291	Other	ABR	35.5121739	0.000134	0.0372
cg15514896	1	229074115	Other	NA	-34.075584	0.000134	0.0372
cg23723486	7	101361745	Other	NA	-45.448222	0.000134	0.0372
cg19460792	15	47676823	Other	SEMA6D	35.8921898	0.000135	0.037279
cg05861512	14	94442960	Other	ASB2	-34.021355	0.000135	0.037279
cg03247944	12	3472883	N_Shelf	NA	-34.468176	0.000135	0.037313
cg06545464	6	32299649	Other	C6orf10	-87.041104	0.000135	0.037313
cg06064964	20	62199181	N_Shore	HELZ2	-43.69861	0.000135	0.037313
cg19771173	1	204296545	Other	PLEKHA6	-41.537495	0.000136	0.037337
cg27308445	5	149699675	Other	NA	25.493822	0.000136	0.037337

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg08981777	19	48497737	Other	ELSPBP1	28.054049	0.000136	0.037337
cg13695585	6	30853014	S_Shore	DDR1	34.1146389	0.000136	0.037337
cg07489413	11	2321937	Other	C11orf21	-43.129365	0.000136	0.037385
cg20668644	17	38347603	Island	RAPGEFL1	1195.47276	0.000137	0.037427
cg17147917	8	119809044	Other	NA	52.4878518	0.000137	0.037427
cg03755794	5	156390431	Other	TIMD4	-71.897197	0.000137	0.037427
cg06366374	6	6543659	N_Shelf	LY86-AS1	-48.75929	0.000137	0.037427
cg04880487	11	68436821	N_Shore	NA	-63.843849	0.000137	0.037476
cg25501422	2	121108133	S_Shore	INHBB	-63.384006	0.000138	0.037481
cg20454518	12	133135463	Island	FBRSL1	-45.090961	0.000138	0.037481
cg01372551	7	98050564	Other	NA	57.2673267	0.000138	0.037481
cg06332304	10	126782397	Other	CTBP2	33.6198574	0.000138	0.037481
cg16260126	10	4892269	Other	NA	-29.347402	0.000138	0.037481
cg04318619	17	1090300	Other	ABR	29.0602735	0.000138	0.037481
cg21023831	2	218769784	Other	TNS1	-51.774688	0.000138	0.037544
cg06158944	4	99182422	Island	RAP1GDS1	731.602927	0.000139	0.037544
cg07110356	17	56355431	Island	MPO	-58.601989	0.000139	0.037566
cg08995327	16	66070379	Other	NA	-34.416892	0.000139	0.037623
cg19299755	11	116706051	N_Shore	APOA1	-32.54235	0.00014	0.037623
cg15010140	2	128644922	S_Shore	AMMECR1L	39.3834891	0.00014	0.037623
cg01289343	13	114814401	Island	RASA3	-44.615164	0.00014	0.037623
cg26591391	7	117644097	Other	NA	-36.303028	0.00014	0.037623
cg17742416	2	25499619	N_Shore	DNMT3A	-53.483898	0.00014	0.037623
cg13511576	6	31634890	S_Shore	GPANK1	63.1812802	0.00014	0.037623
cg06108383	6	32120899	N_Shore	PPT2	31.1888076	0.00014	0.037623
cg10996589	12	125017134	Other	NCOR2	27.7391676	0.00014	0.037623
cg06372522	X	118374789	S_Shelf	PGRMC1	29.6754732	0.00014	0.037626
cg01102307	1	9340416	Other	NA	56.4836834	0.000141	0.037641
cg26948226	2	192365744	Other	NA	26.7260649	0.000141	0.037642
cg01458495	3	48310544	Other	ZNF589	25.6887971	0.000141	0.037642
cg25950638	15	70451935	Other	NA	-67.571481	0.000141	0.037677
cg13408086	9	140221397	S_Shelf	EXD3	-63.735458	0.000142	0.037677
cg15096829	1	202092005	Other	GPR37L1	37.3130835	0.000142	0.037677
cg26741350	19	33462235	N_Shore	CEP89	55.3186471	0.000142	0.037677
cg17661220	20	3693179	Other	NA	-56.572674	0.000142	0.037677
cg15721134	10	133806677	Other	NA	-71.080412	0.000142	0.037739
cg16061668	11	70257149	N_Shore	CTTN	-64.390008	0.000143	0.037801
cg22337438	19	54327437	Other	NLRP12	-45.844694	0.000143	0.037801
cg15059548	7	47344634	Other	TNS3	-41.579977	0.000143	0.037801
cg11185291	9	139744617	Island	PHPT1	46.1871154	0.000143	0.037801
cg10671830	4	7652103	Other	SORCS2	-46.186945	0.000143	0.037801

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg09062708	1	61649907	Other	NFIA	33.3063183	0.000144	0.037801
cg13344855	19	11300651	N_Shelf	KANK2	35.3683094	0.000144	0.037801
cg09358422	1	1023247	Island	C1orf159	26.3219797	0.000144	0.037801
cg23554164	8	118960159	Other	EXT1	55.0574122	0.000144	0.037801
cg22249566	X	16737422	N_Shore	SYAP1	119.598547	0.000144	0.037801
cg04204669	11	2193742	Other	MIR4686	-56.575315	0.000144	0.037801
cg21218848	9	139604168	N_Shelf	FAM69B	-156.97934	0.000144	0.037801
cg26917745	7	30939723	Other	NA	-30.750289	0.000145	0.037801
cg18333220	2	75655854	Other	NA	-55.285231	0.000145	0.037801
cg13939462	6	36843324	S_Shore	PPIL1	37.0247165	0.000145	0.037801
cg16744996	14	70168865	Other	KIAA0247	-23.371487	0.000145	0.037801
cg24038762	1	87817476	Other	NA	49.1848283	0.000145	0.037801
cg05149343	7	25897590	N_Shore	NA	-40.818426	0.000145	0.037801
cg24149237	11	117687628	Other	NA	-51.402619	0.000146	0.037801
cg23440155	1	47264601	Other	CYP4B1	41.7188208	0.000146	0.037801
cg09540612	20	62492233	N_Shore	ABHD16B	-49.529182	0.000146	0.037801
cg19187121	15	101628653	N_Shore	NA	-35.904914	0.000146	0.037801
cg10147479	4	185872977	Island	NA	-100.70791	0.000146	0.037801
cg11941929	18	12429120	N_Shelf	SLMO1	-50.229042	0.000146	0.037801
cg13483727	18	615471	Other	CLUL1	-69.530535	0.000146	0.037801
cg24096540	17	12695725	S_Shelf	ARHGAP44	-112.92185	0.000146	0.037801
cg11404380	4	41215359	N_Shore	APBB2	90.1598686	0.000146	0.037801
cg03565868	11	47400146	S_Shore	SPI1	-46.968622	0.000146	0.037801
cg06471380	2	240878436	Island	MIR4786	-55.969897	0.000146	0.037801
cg01643712	11	112112572	Other	NA	35.6324565	0.000147	0.037801
cg06481660	6	6824580	Other	NA	-117.51063	0.000147	0.037801
cg25302015	19	18713816	N_Shelf	CRLF1	-72.313442	0.000147	0.037801
cg16360668	1	19265059	Other	IFFO2	-44.560365	0.000147	0.037801
cg02647628	7	114053988	Other	FOXP2	33.9732044	0.000147	0.037801
cg16266227	1	202129204	Other	PTPN7	-41.464781	0.000147	0.037801
cg03601229	17	73748344	N_Shore	ITGB4	-58.088599	0.000147	0.037801
cg15366423	18	48089684	S_Shelf	MAPK4	-76.495776	0.000147	0.037801
cg13521229	19	51013630	N_Shore	JOSD2	55.9320714	0.000147	0.037801
cg08043565	11	12308645	Other	MICALCL	25.0396164	0.000148	0.037802
cg20367923	6	169624501	S_Shore	THBS2	43.464555	0.000148	0.037802
cg06959773	7	76033795	S_Shelf	SRCRB4D	-62.652536	0.000148	0.037802
cg22867608	10	64573356	Island	EGR2	27.2052924	0.000148	0.037802
cg13348574	17	207478	S_Shore	RPH3AL	46.4051469	0.000148	0.037802
cg10129493	19	51728586	Other	CD33	-66.19394	0.000149	0.037892
cg08545136	17	76775543	N_Shore	CYTH1	-54.104552	0.000149	0.037903
cg01040259	17	73314451	Other	GRB2	-54.193555	0.000149	0.037903

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg25752703	3	128710390	N_Shelf	KIAA1257	-42.904647	0.000149	0.037996
cg12176605	3	40518138	N_Shore	ZNF619	-23.905074	0.00015	0.038024
cg01938023	5	138855699	Other	TMEM173	-82.553072	0.00015	0.038045
cg04483936	15	57668247	N_Shore	CGNL1	-55.351203	0.00015	0.038045
cg08610987	1	157972005	Other	KIRREL	25.4764651	0.00015	0.038045
cg06523948	16	56640947	N_Shore	MT2A	36.7317595	0.00015	0.038045
cg07588216	20	25204045	Other	ENTPD6	84.8565014	0.000151	0.038084
cg12223090	17	80128788	Other	CCDC57	-84.347296	0.000151	0.038116
cg06834507	1	200876957	N_Shelf	C1orf106	-57.493076	0.000151	0.038116
cg02665037	12	54362496	S_Shore	HOTAIR	-40.571083	0.000151	0.03816
cg25141611	13	113422162	S_Shore	ATP11A	-57.563798	0.000151	0.038167
cg11740845	17	8638742	Other	CCDC42	-58.608302	0.000152	0.038183
cg00136547	6	56507796	Other	DST	22.7037723	0.000152	0.038183
cg22275857	22	38198963	N_Shore	H1FO	187.703407	0.000152	0.03819
cg04141129	12	32530696	Other	BICD1	-110.67905	0.000152	0.038235
cg21746459	9	104160900	Island	MRPL50	562.689142	0.000153	0.03837
cg24129356	6	32920735	Other	HLA-DMA	-31.298307	0.000153	0.03837
cg08165083	1	10589400	Other	PEX14	-35.653213	0.000153	0.03837
cg11363168	8	38470662	Other	NA	38.9533811	0.000153	0.03837
cg10141022	7	140624905	Island	BRAF	-465.71952	0.000154	0.038379
cg19269039	1	111743200	N_Shelf	DENND2D	-55.747444	0.000154	0.038379
cg09820180	6	140168822	Other	LOC100132735	34.5758577	0.000154	0.03838
cg09760574	20	34605662	Other	CNBD2	30.7586166	0.000154	0.038397
cg23497683	2	100759159	Other	AFF3	-35.31166	0.000154	0.038397
cg10454879	8	602158	S_Shore	NA	-28.932948	0.000154	0.038397
cg12871835	6	134639417	S_Shore	SGK1	93.1862072	0.000155	0.038397
cg21714809	11	72463184	Island	ARAP1	88.1867261	0.000155	0.038397
cg01710147	1	207233419	Other	PFKFB2	37.5647543	0.000155	0.038397
cg13670898	14	56792319	Other	NA	25.178358	0.000155	0.03841
cg19122948	17	80207982	N_Shore	CSNK1D	78.3882557	0.000155	0.038456
cg04103052	2	1203162	Other	SNTG2	56.0040766	0.000155	0.038456
cg03191919	3	196134040	Other	UBXN7	28.4184081	0.000156	0.03853
cg16923982	2	233369610	S_Shore	NA	-44.314741	0.000156	0.03853
cg24523322	1	1023281	Island	C1orf159	24.4899274	0.000156	0.038576
cg27185501	11	12562492	Other	NA	27.90309	0.000157	0.038613
cg20061364	6	160582602	Other	NA	-88.605028	0.000157	0.038613
cg08967456	16	3114948	Other	IL32	-63.188599	0.000157	0.038622
cg27182923	3	123129387	Other	ADCY5	-80.765811	0.000157	0.038634
cg05628702	20	35491052	Island	SOGA1	30.6937037	0.000157	0.038639
cg05584759	12	57869421	Island	ARHGAP9	47.1290921	0.000157	0.038639
cg11525052	11	2321955	Other	C11orf21	-59.338733	0.000157	0.038639

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg08165784	12	107297238	Other	NA	134.170955	0.000158	0.038645
cg16637458	13	113585948	Other	NA	29.8394482	0.000158	0.038645
cg26574754	13	108870827	Island	ABHD13	838.743791	0.000158	0.038645
cg06655952	5	80364036	Other	RASGRF2	-29.994686	0.000158	0.0387
cg00206233	21	44011158	S_Shore	NA	-33.25758	0.000159	0.0387
cg09918657	16	14397207	S_Shore	MIR193B	-30.645359	0.000159	0.0387
cg17470397	3	193308169	N_Shelf	OPA1	-90.701155	0.000159	0.0387
cg07648709	11	73043675	Other	ARHGEF17	27.0462899	0.000159	0.0387
cg26951839	5	77801011	Other	LHFPL2	36.6252197	0.000159	0.0387
cg27206665	7	107822217	Other	NRCAM	-28.496429	0.000159	0.0387
cg14478255	2	1425035	Other	TPO	43.3706386	0.00016	0.038846
cg14965694	14	102226416	N_Shore	PPP2R5C	31.7355771	0.00016	0.038867
cg11810998	1	212819593	Other	NA	-37.897655	0.000161	0.038939
cg06639585	6	36236936	Other	PNPLA1	-72.213278	0.000161	0.038939
cg11674933	1	36948313	Other	CSF3R	-42.900987	0.000161	0.038957
cg03551062	16	88041289	S_Shore	BANP	-30.189779	0.000161	0.038957
cg23919433	17	79830196	S_Shore	ARHGDI1	620.287727	0.000161	0.038981
cg03390187	11	65256983	Other	NA	39.3403245	0.000161	0.038981
cg01314252	3	9943828	Other	IL17RE	-55.727272	0.000162	0.039031
cg13101705	1	183248593	Other	NMNAT2	-37.294805	0.000162	0.039034
cg09182750	15	99979346	Other	NA	-40.692859	0.000162	0.039034
cg07889201	20	2490030	S_Shore	ZNF343	70.5052081	0.000162	0.039034
cg03225093	5	2008713	S_Shore	NA	35.3136547	0.000162	0.039034
cg11062056	12	52249852	Other	NA	46.2327081	0.000162	0.039034
cg16340152	8	81789991	S_Shelf	ZNF704	-35.666473	0.000163	0.039034
cg04028450	8	23201488	Other	LOC100507156	36.5132786	0.000163	0.039034
cg27631256	9	117692745	Other	TNFSF8	-37.471495	0.000163	0.039034
cg06219695	16	434256	S_Shore	LOC100134368	-50.392743	0.000163	0.039046
cg14421700	17	77755965	N_Shelf	CBX2	-39.826362	0.000164	0.039165
cg13523819	3	69915449	Other	MITF	38.7504575	0.000164	0.039165
cg25466245	1	223407095	Other	SUSD4	30.4828611	0.000164	0.039165
cg05694749	11	92616492	Island	FAT3	-97.747176	0.000164	0.039165
cg10215604	19	15375418	Other	BRD4	30.3509653	0.000165	0.03924
cg04921244	17	72096219	Other	NA	114.488663	0.000165	0.03924
cg09889997	1	7692321	Other	CAMTA1	-51.037748	0.000165	0.03924
cg23829395	12	46796953	Other	NA	43.7677422	0.000165	0.039321
cg16548254	2	27601342	Island	ZNF513	47.2741178	0.000166	0.03935
cg04541607	22	27013978	Other	CRYBB1	-51.726152	0.000166	0.03935
cg01582947	7	149156500	N_Shore	ZNF777	57.7250889	0.000166	0.03935
cg27372422	19	41086247	S_Shelf	SHKBP1	-65.64821	0.000166	0.03935
cg03519711	1	86046512	Island	CYR61	2238.49778	0.000167	0.03935

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg01923089	12	49627746	N_Shore	NA	-49.380015	0.000167	0.03935
cg02035102	7	23603991	Other	NA	51.9326316	0.000167	0.03935
cg06011086	8	61823275	S_Shore	NA	-66.18384	0.000167	0.03935
cg25785639	6	33385083	N_Shore	CUTA	427.40326	0.000167	0.03935
cg09247486	1	61437380	Other	NA	40.2344922	0.000167	0.03935
cg22575540	2	27505625	Other	TRIM54	-57.972051	0.000167	0.03935
cg02865595	1	36771714	N_Shore	SH3D21	23.5664909	0.000167	0.03935
cg09714789	13	113422497	N_Shelf	ATP11A	-42.881437	0.000167	0.03935
cg01241390	5	80596277	N_Shore	LOC100131067	32.0546369	0.000168	0.039405
cg03328673	13	22687730	Other	NA	-45.013385	0.000168	0.039445
cg03892601	7	148036314	N_Shore	CNTNAP2	54.9813435	0.000168	0.039458
cg01621764	19	8809175	S_Shore	ACTL9	33.170629	0.000168	0.039475
cg25214914	1	155910523	Other	RXFP4	-50.106663	0.000169	0.039514
cg09012411	1	95167783	Other	NA	-31.02147	0.000169	0.039514
cg26678516	12	107078680	Other	LOC100505978	-90.025089	0.000169	0.039619
cg18162583	6	85484717	Island	NA	-44.613366	0.00017	0.039619
cg22393213	2	237478526	S_Shore	ACKR3	241.836757	0.00017	0.039619
cg12492900	12	132551078	Other	EP400	-25.72347	0.00017	0.039619
cg04785902	6	22878214	Other	NA	23.4015	0.00017	0.039619
cg11978048	8	63951797	Island	GGH	2569.19466	0.00017	0.039619
cg13105234	4	1550473	N_Shelf	NA	37.4787179	0.00017	0.039619
cg04856896	1	32665450	N_Shore	CCDC28B	39.8638552	0.000171	0.039619
cg21582831	3	47029458	Other	NBEAL2	-35.519264	0.000171	0.039619
cg11526866	1	20813614	S_Shore	CAMK2N1	42.8065738	0.000171	0.039619
cg12165022	19	3785573	Island	MATK	102.591963	0.000171	0.039619
cg03994959	13	108866993	N_Shore	LIG4	23.5336825	0.000171	0.039619
cg09338875	16	4818532	N_Shore	ZNF500	244.288922	0.000171	0.039619
cg27213549	10	44102591	S_Shore	ZNF485	32.8679808	0.000171	0.039619
cg11847992	5	95590917	Other	NA	33.1695544	0.000171	0.039619
cg03681335	2	108903965	Other	SULT1C2	-77.38827	0.000172	0.039619
cg05380759	3	45579354	Other	LARS2	-61.125096	0.000172	0.039619
cg12554857	4	95264019	Other	HPGDS	-50.6371	0.000172	0.039619
cg19188632	2	3702481	S_Shelf	ALLC	-49.540113	0.000172	0.039619
cg15490070	1	203148132	Other	MYBPH	-50.406648	0.000172	0.039619
cg04364339	10	91087703	Other	IFIT3	207.819892	0.000172	0.039644
cg04567334	10	73408185	Other	CDH23	71.3271975	0.000172	0.039644
cg05643373	19	49220422	N_Shelf	MAMSTR	94.4978492	0.000173	0.039644
cg25132782	15	84047082	N_Shore	NA	-37.491772	0.000173	0.039644
cg22337624	16	72126421	N_Shore	TXNL4B	29.1505696	0.000173	0.039729
cg26165660	12	76363767	Other	NA	-57.219185	0.000174	0.039729
cg00141308	22	44725065	N_Shore	NA	-42.101657	0.000174	0.039729

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg24467535	4	100244604	Other	ADH1B	-27.825046	0.000174	0.039729
cg16749930	11	71709978	Other	IL18BP	-29.943463	0.000174	0.039729
cg16438525	3	52517742	N_Shelf	NISCH	25.8762416	0.000174	0.039729
cg19198913	2	129495073	Island	NA	-63.662136	0.000175	0.039729
cg07986469	10	129795003	Other	PTPRE	41.989586	0.000175	0.039729
cg12228319	18	34916814	Island	CELF4	-125.7187	0.000175	0.039729
cg04497992	16	616212	S_Shore	NHLRC4	36.2163106	0.000175	0.039729
cg23051123	1	226132841	Other	LEFTY2	-46.276909	0.000175	0.039729
cg17433678	10	3135764	Other	PFKP	-68.418085	0.000175	0.039729
cg01165355	3	64225108	Other	NA	49.5613178	0.000175	0.039729
cg02385661	19	13215729	S_Shore	LYL1	-30.666889	0.000175	0.039729
cg18154954	19	39055500	Island	RYS1	-41.898443	0.000176	0.039729
cg22873892	15	49447651	S_Shore	COPS2	526.31893	0.000176	0.039729
cg17008473	2	38356469	Other	CYP1B1-AS1	-78.787142	0.000176	0.039729
cg04774469	14	21562632	S_Shore	ZNF219	40.8913316	0.000176	0.039729
cg00830492	7	47432311	Other	TNS3	51.4296731	0.000176	0.039729
cg02108015	2	161777404	Other	NA	34.5448373	0.000177	0.039729
cg00048381	1	154587507	Other	ADAR	20.8846283	0.000177	0.039729
cg02886838	14	64576663	Other	SYNE2	-32.280405	0.000177	0.039729
cg07675031	11	47399893	Island	SPI1	-46.998785	0.000177	0.039729
cg25817351	10	79977519	Other	NA	-80.437349	0.000177	0.039729
cg25574761	12	122688279	Island	B3GNT4	69.3800127	0.000177	0.039729
cg12004641	2	218750749	Other	TNS1	-45.571614	0.000177	0.039729
cg01012082	8	71025759	Other	NCOA2	34.9859012	0.000177	0.039729
cg02124724	21	46875142	N_Shore	COL18A1	41.3945576	0.000177	0.039729
cg09335647	7	147097440	Other	CNTNAP2	33.4481038	0.000177	0.039729
cg14556677	9	127054428	Other	NEK6	-46.36526	0.000177	0.039729
cg17353900	17	10101010	N_Shore	GAS7	57.343411	0.000178	0.039729
cg10533990	11	71846733	Other	FOLR3	-45.238268	0.000178	0.039729
cg26358105	5	156247415	Other	NA	-63.447261	0.000178	0.039729
cg25325322	2	85073715	Other	TRABD2A	-56.740865	0.000178	0.039862
cg24948743	8	6481608	Other	MCPH1	-33.373244	0.000179	0.039954
cg23697410	10	71336363	N_Shore	NEUROG3	66.1689234	0.000179	0.039993
cg15125438	12	113684389	Other	TPCN1	44.2904553	0.000179	0.039993
cg10414208	17	74669923	S_Shore	NA	56.1268717	0.00018	0.039993
cg07138115	8	26370349	N_Shore	PNMA2	54.8745306	0.00018	0.039993
cg16792302	2	172945058	Island	METAP1D	-16.65682	0.00018	0.039993
cg27655512	11	2287421	N_Shelf	ASCL2	-33.56921	0.00018	0.040065
cg11591485	3	124839640	Other	SLC12A8	41.0358607	0.000181	0.040065
cg18875357	14	105391263	Other	PLD4	-49.839661	0.000181	0.040065
cg19015961	10	90712748	Other	ACTA2	49.6978748	0.000181	0.040065

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg18568534	14	23240117	S_Shelf	OXA1L	74.9308115	0.000181	0.040065
cg22241045	4	54363911	Other	LNX1-AS1	22.4990131	0.000182	0.040065
cg17027260	2	109892050	Other	SH3RF3	-24.474372	0.000182	0.040065
cg25790133	4	2627014	Other	FAM193A	23.43666	0.000182	0.040065
cg13666041	14	69442697	N_Shore	ACTN1	19.6754981	0.000182	0.040065
cg15841728	1	114642507	Other	SYT6	-42.421863	0.000182	0.040065
cg04553793	2	25193837	N_Shore	DNAJC27	35.4317238	0.000182	0.040065
cg08379738	19	6477033	Island	DENND1C	39.5205563	0.000182	0.040065
cg06821075	10	99933209	Other	R3HCC1L	-109.83992	0.000182	0.040065
cg00369811	6	37673597	Island	NA	-81.663875	0.000183	0.040065
cg15569052	4	2814122	Other	SH3BP2	-19.908985	0.000183	0.040065
cg01702055	6	13303065	Other	NA	-35.443785	0.000183	0.040065
cg01026796	5	54602543	N_Shore	DHX29	32.2998951	0.000183	0.040065
cg11277156	3	139066791	S_Shelf	MRPS22	65.6523191	0.000183	0.040131
cg24514275	8	42037170	Other	PLAT	-42.943387	0.000183	0.040146
cg01383082	8	11323474	N_Shore	FAM167A	26.7620431	0.000184	0.040146
cg19179572	17	80377872	S_Shore	OGFOD3	-57.04883	0.000184	0.040146
cg01012026	7	229388	N_Shore	FAM20C	38.9486756	0.000184	0.040146
cg08061524	22	46472568	Other	NA	23.7196739	0.000184	0.040146
cg07261920	5	156885069	N_Shore	NIPAL4	-61.39981	0.000184	0.040146
cg16842214	3	42727160	Island	KLHL40	-48.776401	0.000184	0.040186
cg09406921	8	37636099	Other	PROSC	49.9721869	0.000185	0.040214
cg27334740	16	85215660	Other	NA	-73.088167	0.000185	0.040214
cg06167221	18	77336130	Island	NA	19.6369024	0.000185	0.040214
cg11823624	7	150778724	Island	FASTK	60.4854062	0.000185	0.040214
cg15726700	3	196370254	S_Shelf	NRROS	-47.522134	0.000186	0.040214
cg00600617	6	107221887	Other	LOC100422737	28.5816838	0.000186	0.040214
cg20149168	1	68512807	Island	DIRAS3	-68.65202	0.000186	0.040214
cg04023434	1	183778265	S_Shelf	RGL1	-98.892244	0.000186	0.040214
cg00712762	1	36351470	S_Shore	AGO1	81.8392502	0.000186	0.040214
cg21031035	13	110279787	Other	NA	-57.493768	0.000186	0.040214
cg00036871	2	220436894	S_Shore	INHA	63.8433497	0.000186	0.040214
cg25927215	6	34677450	Other	NA	32.166448	0.000186	0.040214
cg23713900	18	615496	Other	CLUL1	-45.252514	0.000187	0.040214
cg27080986	4	8396300	Other	ACOX3	31.6018407	0.000187	0.040214
cg25134859	5	171340543	Other	FBXW11	-19.50028	0.000187	0.040214
cg24941342	11	95093809	Other	NA	-28.049639	0.000187	0.040214
cg27160007	19	41225374	S_Shelf	ITPKC	35.9007483	0.000187	0.040214
cg08442088	7	44085357	S_Shore	DBNL	-81.091605	0.000187	0.040214
cg20992708	4	5637894	Other	EVC2	-39.330726	0.000187	0.040214
cg05254651	4	3705147	Other	NA	36.709127	0.000187	0.040224

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg17934470	5	49959703	N_Shelf	PARP8	-26.575976	0.000188	0.040232
cg15035143	17	56408688	Other	MIR142	-48.254025	0.000188	0.040263
cg04985661	6	12717192	Other	PHACTR1	28.9310741	0.000188	0.040263
cg08642285	15	68498589	Other	CALML4	-31.386344	0.000188	0.040263
cg26401673	3	43431343	Other	ANO10	-22.209042	0.000188	0.040263
cg09256413	1	72566690	Other	NEGR1	-30.704773	0.000188	0.040263
cg25261361	8	145057101	Other	PARP10	74.0217046	0.000189	0.040289
cg21680307	6	170398618	N_Shelf	NA	-79.83733	0.000189	0.040289
cg06023841	7	73308204	Other	NA	38.5102878	0.000189	0.040289
cg22387253	15	61310104	Other	RORA	48.8271538	0.000189	0.040361
cg25090051	20	57414059	N_Shore	GNAS	-69.101589	0.00019	0.040398
cg19956836	11	57241448	N_Shelf	RTN4RL2	-47.989141	0.00019	0.040398
cg23715045	11	124621944	Other	VSIG2	40.8902228	0.00019	0.040401
cg17261120	11	12578707	Other	NA	34.4842633	0.00019	0.040412
cg14590912	9	135905092	N_Shore	GTF3C5	41.8950468	0.000191	0.040412
cg12157364	11	121612857	Other	NA	20.6613324	0.000191	0.040412
cg07579839	4	2933748	Island	MFSD10	-32.369802	0.000191	0.040412
cg00192882	17	19291120	Other	MFAP4	32.331348	0.000191	0.040412
cg03668763	11	9549286	Other	ZNF143	45.1263803	0.000191	0.040412
cg14527564	7	100875556	Island	CLDN15	37.1255843	0.000191	0.040412
cg08480068	16	29674959	N_Shore	SPN	-59.52083	0.000191	0.04043
cg02914427	16	29674184	N_Shore	SPN	-45.998899	0.000191	0.04043
cg20744756	1	95201495	Other	NA	19.8523358	0.000192	0.040431
cg00415011	8	142046261	Other	NA	-34.169793	0.000192	0.040431
cg21587837	6	31525894	Other	NFKBIL1	-48.059699	0.000192	0.040431
cg23686831	15	93653310	S_Shore	NA	-37.958315	0.000192	0.040458
cg10492657	6	4854374	Other	CDYL	44.2743859	0.000193	0.040458
cg24627789	8	1338463	N_Shelf	NA	31.3336105	0.000193	0.040458
cg16008138	17	60885892	S_Shore	10-Mar	46.5867813	0.000193	0.040458
cg03039218	17	43025639	S_Shore	KIF18B	113.581635	0.000193	0.040498
cg17075096	10	124623239	Other	FAM24B-CUZD1	-88.997369	0.000193	0.040504
cg19064258	16	22826117	Island	HS3ST2	92.6466387	0.000194	0.040529
cg03116035	4	170897498	Other	LOC100506085	-61.285244	0.000194	0.040529
cg15240455	2	162480821	Other	SLC4A10	88.0169526	0.000194	0.040529
cg07898087	4	17060364	Other	NA	21.4410219	0.000195	0.040529
cg23273465	2	36588933	S_Shelf	CRIM1	28.3465265	0.000195	0.040529
cg01206915	10	74856003	Island	P4HA1	502.131536	0.000195	0.040529
cg17446719	1	16302584	Island	ZBTB17	1355.40366	0.000195	0.040529
cg14395761	17	81018559	S_Shelf	NA	-60.327361	0.000195	0.040529
cg26195829	14	61122155	N_Shore	NA	-30.792181	0.000195	0.040529
cg03149130	9	93404977	Island	DIRAS2	115.716027	0.000195	0.040529

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg11854777	2	131597644	S_Shelf	NA	-81.391948	0.000195	0.040529
cg08272572	19	35953646	Other	NA	-27.748545	0.000195	0.040529
cg15545878	11	111782607	Other	CRYAB	38.3474607	0.000195	0.040529
cg25453154	10	81203244	N_Shore	ZCCHC24	59.3575949	0.000196	0.040529
cg20147326	11	33913538	Other	LMO2	-81.748653	0.000196	0.040529
cg23890469	10	88715317	Other	MMRN2	-46.701182	0.000196	0.040529
cg00263619	12	94727462	Other	CCDC41	43.881872	0.000197	0.040529
cg01368217	10	127836603	Other	ADAM12	21.4227676	0.000197	0.040529
cg26906998	17	17108846	Island	PLD6	38.4154925	0.000197	0.040529
cg22502382	12	32701732	Other	FGD4	82.0368912	0.000197	0.040529
cg00400041	5	180284090	N_Shelf	ZFP62	-96.795	0.000197	0.040529
cg17716663	19	45978434	S_Shelf	FOSB	-27.810783	0.000197	0.040529
cg22794775	4	106114477	Other	TET2	-93.249912	0.000197	0.040529
cg12284382	22	35940438	S_Shelf	RASD2	-31.096477	0.000197	0.040529
cg11510557	12	132312857	Island	MMP17	349.544504	0.000197	0.040529
cg02604304	7	64451414	Other	ZNF117	-74.898919	0.000197	0.040529
cg06867863	2	66159330	Other	NA	-33.909219	0.000197	0.040529
cg25440680	4	77226417	N_Shore	STBD1	-61.714443	0.000197	0.040529
cg21167761	11	77903617	N_Shelf	USP35	29.3074535	0.000198	0.040558
cg01641371	17	26712092	Island	SARM1	-47.567716	0.000198	0.040558
cg02334109	15	26044050	Other	ATP10A	-44.290968	0.000198	0.040596
cg26740109	18	77585428	N_Shore	NA	-72.877982	0.000198	0.040596
cg07177917	1	10724490	N_Shore	CASZ1	61.3225325	0.000199	0.040596
cg07707505	1	12185435	Other	TNFRSF8	-34.313654	0.000199	0.040596
cg27278729	11	61666595	Other	RAB3IL1	-63.23721	0.000199	0.040596
cg02138358	17	56358318	S_Shore	MPO	-65.697971	0.000199	0.040596
cg15128679	5	134476728	Other	LOC100996485	-47.806053	0.000199	0.040596
cg24377826	10	126376113	Other	FAM53B	-47.286425	0.000199	0.040596
cg19190519	11	123175740	S_Shelf	NA	-89.908899	0.0002	0.040596
cg05313153	8	119122430	N_Shore	EXT1	133.943761	0.0002	0.040596
cg10011495	22	46516475	N_Shore	NA	24.5774618	0.0002	0.040596
cg16744741	4	82126025	Other	PRKG2	-47.421629	0.0002	0.040596
cg01796676	15	73680284	Other	NA	-70.72289	0.0002	0.040596
cg18746336	3	128216122	Island	GATA2	27.6108583	0.0002	0.040596
cg12416304	2	134884764	Other	MIR3679	-51.003151	0.000201	0.04065
cg07834743	5	5139610	Island	ADAMTS16	90.8488985	0.000201	0.04065
cg17189778	X	153169823	Other	AVPR2	-53.967613	0.000201	0.04065
cg13486600	1	22977618	S_Shelf	C1QB	-117.51525	0.000201	0.04065
cg17216243	2	170627694	S_Shelf	NA	-29.980528	0.000201	0.04065
cg05143345	14	23447408	N_Shelf	AJUBA	33.4380392	0.000201	0.04065
cg00446046	3	187686918	Other	NA	-32.077304	0.000202	0.040707

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

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cg14622819	4	76944817	Other	CXCL10	-37.876903	0.000202	0.040707
cg01844235	22	23487969	Island	RAB36	53.0031369	0.000202	0.040707
cg22332722	18	25754857	N_Shore	CDH2	-40.749619	0.000202	0.040707
cg03106245	11	47399980	Island	SPI1	-64.021398	0.000202	0.040707
cg19675731	1	202129192	Other	PTPN7	-41.62985	0.000203	0.040732
cg25654652	8	22423633	Island	SORBS3	73.1187774	0.000203	0.040732
cg22110896	17	59533081	Island	TBX4	-39.317581	0.000203	0.040732
cg20577613	17	57409092	Island	YPEL2	1551.29939	0.000203	0.040732
cg11637721	11	65486928	N_Shore	RNASEH2C	36.0550184	0.000203	0.040732
cg10007927	6	32095148	N_Shelf	ATF6B	70.2629538	0.000203	0.04076
cg27208925	16	85937106	Other	IRF8	-50.478026	0.000204	0.040837
cg09699056	17	79503642	Island	FSCN2	-24.528014	0.000204	0.040856
cg07183637	6	31940692	S_Shore	DOM3Z	43.7337234	0.000204	0.040913
cg24788483	10	114911652	Other	TCF7L2	-41.748636	0.000205	0.040924
cg01477933	12	122922107	Other	NA	34.6507105	0.000205	0.040924
cg03137071	8	49496369	Other	NA	41.6100372	0.000205	0.040924
cg18801806	11	118869385	S_Shore	CCDC84	50.7222559	0.000205	0.040924
cg03335246	4	4860431	N_Shore	MSX1	-41.424681	0.000205	0.040924
cg00112685	19	11591190	Island	ELAVL3	60.0112478	0.000205	0.040924
cg18236464	1	176528783	Other	PAPPA2	-30.287831	0.000206	0.040924
cg07641643	12	123234584	N_Shelf	DENR	38.6747226	0.000206	0.040956
cg04605980	12	117471700	Other	NA	42.1308018	0.000206	0.04098
cg27482619	10	30818479	Other	NA	-58.101769	0.000207	0.04113
cg23006227	4	174423637	S_Shore	NA	-22.010857	0.000207	0.041131
cg15059065	19	17354961	N_Shore	NR2F6	46.2037845	0.000207	0.041131
cg23114262	10	135086817	N_Shelf	ADAM8	-36.100535	0.000207	0.041131
cg11523350	11	117171073	Other	BACE1	29.1642469	0.000208	0.041201
cg09632271	4	68441222	Other	STAP1	-23.879838	0.000209	0.041312
cg23827488	6	24908452	N_Shelf	FAM65B	-33.175586	0.000209	0.041312
cg17054708	3	13679636	S_Shore	FBLN2	-53.393529	0.000209	0.041312
cg15990632	1	157983193	Other	KIRREL	44.1795805	0.000209	0.041367
cg13829419	6	143167279	Other	HIVEP2	49.9520935	0.00021	0.041367
cg14285050	1	40778294	N_Shelf	COL9A2	-59.254657	0.00021	0.041367
cg04022194	4	8317995	Other	NA	83.9733658	0.00021	0.041367
cg02533173	19	15391124	Other	BRD4	33.5859865	0.00021	0.041367
cg01357222	6	137619143	Other	NA	-31.675216	0.00021	0.041367
cg16310003	12	122297080	Other	HPD	40.4741245	0.00021	0.041367
cg25581039	17	7350881	S_Shelf	CHRNB1	-84.464301	0.000211	0.041442
cg11859982	7	127907529	N_Shelf	NA	41.5081511	0.000211	0.041496
cg11700584	14	50088544	S_Shore	MGAT2	71.4686003	0.000212	0.041496
cg03049917	15	88752391	Other	NTRK3	-93.455914	0.000212	0.041496

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

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cg09376835	8	131347294	Other	ASAP1	-41.641056	0.000212	0.041496
cg00733683	19	1244464	S_Shore	ATP5D	40.1507486	0.000212	0.041496
cg06638023	19	59030102	N_Shore	ZBTB45	88.9756692	0.000212	0.041496
cg13146517	11	560935	Island	RASSF7	103.111371	0.000213	0.041496
cg12414070	12	117627133	N_Shore	FBXO21	45.7475896	0.000213	0.041496
cg13506158	3	191048377	S_Shore	UTS2B	28.0361122	0.000213	0.041496
cg06358171	1	54822008	Island	SSBP3	-45.084266	0.000213	0.041496
cg15988010	4	166033722	Island	TMEM192	659.632432	0.000213	0.041496
cg16337763	11	11438208	Other	GALNT18	-36.275459	0.000213	0.041496
cg10413136	4	8207119	Other	SH3TC1	-45.44666	0.000213	0.041496
cg14413904	10	62423377	Other	ANK3	-40.58738	0.000213	0.041496
cg13407335	17	7832852	Island	KCNAB3	30.744267	0.000214	0.041496
cg15705865	2	900218	Other	NA	-19.525208	0.000214	0.041496
cg00465073	18	48252314	N_Shelf	MAPK4	-69.917507	0.000214	0.041496
cg03036373	14	37051902	N_Shore	NKX2-8	114.362954	0.000214	0.041496
cg21090033	3	196065357	Other	TM4SF19-TCTEX	-36.672227	0.000214	0.041496
cg01473602	12	77257301	Other	CSR2	25.9742483	0.000214	0.041496
cg04826345	13	22615334	Other	NA	-68.495381	0.000214	0.041496
cg27145098	16	29206563	Other	NA	25.3769071	0.000214	0.041509
cg05241536	10	121298236	N_Shelf	RGS10	-62.5	0.000215	0.041509
cg24757778	10	60616392	Other	NA	36.8202731	0.000215	0.041509
cg19513727	12	110708125	Other	NA	40.2743871	0.000215	0.041509
cg22339338	1	159891638	N_Shelf	TAGLN2	-29.714605	0.000215	0.041509
cg11000707	6	42988922	N_Shore	RRP36	45.3490635	0.000215	0.041509
cg27366072	12	12222913	Other	BCL2L14	-67.727072	0.000215	0.041509
cg01956472	6	33968002	Other	MIR1275	-84.153818	0.000216	0.041509
cg22235407	15	66209223	Other	MEGF11	38.9005749	0.000216	0.041509
cg01071159	2	129492198	N_Shelf	NA	-53.13544	0.000216	0.041509
cg13855715	2	177430491	Other	NA	-82.083546	0.000216	0.04153
cg24847230	17	46986807	S_Shore	UBE2Z	64.6067052	0.000217	0.041582
cg23647768	11	1054538	N_Shore	NA	43.5386021	0.000217	0.041582
cg10640072	8	99985888	Island	NA	-41.864178	0.000217	0.041606
cg14395885	9	130700923	S_Shore	DPM2	22.9034259	0.000217	0.041606
cg24910112	8	37657824	S_Shore	GPR124	32.6599147	0.000218	0.041606
cg24540710	17	48262937	Other	COL1A1	57.1051721	0.000218	0.041606
cg26686361	16	85964073	Other	NA	-35.46069	0.000218	0.041606
cg20931951	1	12508122	Other	VPS13D	33.2584018	0.000218	0.041606
cg17500228	5	448790	Other	EXOC3	-34.022427	0.000218	0.041606
cg10420527	11	68138505	Other	LRP5	-31.210027	0.000218	0.041606
cg02869653	22	39352432	Other	APOBEC3A_B	-449.87554	0.000218	0.041606
cg12123728	14	65457053	S_Shelf	FNTB	-58.97607	0.000218	0.041606

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14737287	11	130340832	N_Shelf	ADAMTS15	-126.28956	0.000218	0.041606
cg27134322	8	1900778	Other	ARHGEF10	-52.95362	0.000219	0.041674
cg09307704	8	140277097	Other	NA	81.3365164	0.000219	0.041674
cg05868813	13	26594483	Other	ATP8A2	-25.728827	0.000219	0.041674
cg20065005	1	16712408	Other	SZRD1	-72.056844	0.000219	0.041674
cg21191255	11	698760	S_Shelf	DEAF1	57.1449545	0.00022	0.041674
cg08989290	16	615782	Island	NHLRC4	28.0465936	0.00022	0.041674
cg21953058	15	41309253	Other	INO80	-34.572237	0.00022	0.041674
cg26972614	11	71710885	Other	IL18BP	33.5964367	0.00022	0.041674
cg20580294	10	7486967	Other	NA	-82.226418	0.00022	0.041674
cg04494750	7	100304693	S_Shore	POP7	37.2493225	0.00022	0.041674
cg09434536	15	70614790	Other	NA	-80.416196	0.00022	0.041674
cg05563033	13	101174060	Other	PCCA	-330.90025	0.000221	0.041674
cg04947052	2	128430937	N_Shore	LIMS2	-21.860765	0.000221	0.041674
cg20240860	11	44087423	N_Shore	ACCS	112.350609	0.000221	0.041674
cg00880290	19	14550999	N_Shore	PKN1	-21.428769	0.000221	0.041674
cg01742905	11	88071023	Island	CTSC	696.837359	0.000221	0.041674
cg19769147	14	105860954	N_Shelf	TEX22	-36.982549	0.000221	0.041674
cg08922603	4	4763690	Other	NA	-177.21035	0.000222	0.041674
cg00524561	12	125197665	Other	NA	-22.769097	0.000222	0.041674
cg09740468	6	3025325	Other	HTATSF1P2	-21.601677	0.000222	0.041674
cg21337881	17	5138645	Other	SCIMP	-55.219493	0.000222	0.041678
cg09309261	12	113906999	N_Shore	LHX5	74.3567624	0.000222	0.041678
cg13074682	15	40113167	Other	GPR176	-51.215701	0.000222	0.041696
cg14218233	1	230276786	Other	GALNT2	-72.802115	0.000222	0.041696
cg24094775	6	41704688	S_Shore	TFEB	76.0134314	0.000223	0.041792
cg04880990	12	52887566	Other	KRT6A	-50.655029	0.000223	0.041792
cg09243909	16	53871485	Other	FTO	30.7576874	0.000223	0.041792
cg13576330	5	92943267	S_Shelf	MIR548AO	-33.962901	0.000224	0.041792
cg12319143	10	134726771	N_Shelf	TTC40	-27.699663	0.000224	0.041792
cg12532266	5	132201652	N_Shore	UQCRQ	26.2417034	0.000224	0.041792
cg04883269	3	127144483	Other	NA	-73.588432	0.000224	0.041792
cg09603795	10	75256221	S_Shore	PPP3CB	42.9995789	0.000224	0.041792
cg08575883	10	3291355	Other	NA	37.521414	0.000224	0.041792
cg14524724	5	173054985	Other	NA	31.0592349	0.000224	0.041792
cg02756056	6	32813582	S_Shore	PSMB8	-43.78994	0.000225	0.041792
cg09524658	3	129272656	Other	NA	-14.634996	0.000225	0.041792
cg01209296	20	62435316	S_Shore	ZBTB46	-42.787284	0.000225	0.04182
cg17951588	2	239951254	Other	NA	-146.57523	0.000225	0.04182
cg09235217	2	232263030	Island	B3GNT7	-172.3083	0.000225	0.04182
cg26974880	16	50308058	Other	NA	-48.666456	0.000226	0.04182

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg06879786	2	218847598	S_Shelf	NA	-87.561559	0.000226	0.04182
cg02679503	2	42794680	N_Shore	MTA3	22.4494359	0.000226	0.04182
cg24553170	1	49243472	S_Shore	BEND5	32.2677144	0.000227	0.041921
cg27436940	17	43047115	N_Shore	C1QL1	-32.011418	0.000227	0.041921
cg21781157	20	47874111	Other	ZNFX1	-56.004835	0.000227	0.041921
cg08120210	15	66682733	S_Shelf	MAP2K1	-18.877759	0.000227	0.041924
cg20211629	18	48352490	Other	MRO	-42.904894	0.000227	0.041924
cg27507261	17	5403053	N_Shore	LOC728392	38.0631816	0.000227	0.041924
cg18124162	13	109616351	Other	MYO16	-83.978337	0.000227	0.041924
cg02424715	14	75893680	N_Shore	JDP2	-46.46205	0.000228	0.041924
cg16659773	6	4352453	Other	NA	40.2376134	0.000228	0.041924
cg15693483	7	1102177	N_Shelf	C7orf50	-69.578355	0.000228	0.041993
cg18263969	17	76970864	Other	LGALS3BP	48.4712257	0.000228	0.042009
cg02956248	6	32120901	N_Shore	PPT2	45.1989766	0.000229	0.042018
cg24847621	6	30122565	Other	TRIM10	25.7012956	0.000229	0.042018
cg19680631	6	170478454	S_Shelf	NA	-101.12942	0.000229	0.042042
cg06629120	3	197181773	N_Shore	NA	-45.116291	0.000229	0.042042
cg01768328	17	1634018	N_Shelf	WDR81	73.4095223	0.00023	0.042127
cg06885823	5	82675005	Other	NA	-63.028973	0.00023	0.042168
cg07576135	15	42694403	Other	CAPN3	-57.262692	0.000231	0.042185
cg07636338	19	46214108	N_Shore	FBXO46	36.9500942	0.000231	0.042185
cg15817960	12	54409599	S_Shore	HOXC4	-30.704105	0.000231	0.042185
cg20748065	7	75583421	Other	POR	-35.72998	0.000231	0.042185
cg16577789	14	94186558	Other	PRIMA1	-59.392149	0.000231	0.042185
cg06354695	1	212643521	Other	NA	25.1608164	0.000231	0.042185
cg13152501	7	98626398	Other	SMURF1	-46.587943	0.000231	0.042185
cg17718899	13	22773018	Other	NA	24.6412531	0.000231	0.042185
cg01226614	13	44947593	Island	SERP2	39.3758059	0.000232	0.042185
cg24200165	13	111658907	Other	NA	51.7234381	0.000232	0.042232
cg14972827	6	17045947	Other	NA	31.0298788	0.000232	0.042232
cg12689803	12	119519948	Other	SRRM4	27.8007528	0.000232	0.042232
cg01045337	16	374988	Island	AXIN1	-25.192062	0.000232	0.042232
cg19874640	5	134527449	S_Shore	LOC100996485	-89.092786	0.000233	0.042232
cg17379666	17	71304784	N_Shelf	CDC42EP4	27.9541953	0.000233	0.042256
cg25600446	8	145728543	N_Shore	GPT	41.2225348	0.000233	0.042256
cg18615369	13	52701033	N_Shore	NEK5	-57.350957	0.000233	0.042268
cg16549994	22	36854045	S_Shelf	NA	60.2104725	0.000233	0.042269
cg14086822	1	2724609	Other	NA	38.4280274	0.000234	0.042358
cg16577665	1	119702694	Other	NA	35.2586604	0.000234	0.042358
cg05469614	16	3142818	S_Shelf	ZSCAN10	58.0727378	0.000234	0.042358
cg00489485	16	84341364	Other	WFDC1	-99.080658	0.000235	0.042358

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg01123186	17	36514710	Other	SOCS7	29.7005065	0.000235	0.042358
cg22758834	7	95222104	N_Shelf	PDK4	-16.580078	0.000235	0.042358
cg02240622	15	40601467	Other	PLCB2	-54.675462	0.000235	0.042358
cg02926868	11	66374763	Other	NA	23.3244871	0.000235	0.042358
cg22878535	17	78431627	S_Shelf	NA	-60.562681	0.000235	0.042358
cg09794469	7	5391393	Island	TNRC18	22.2494879	0.000236	0.042404
cg11105029	20	2362041	Other	TGM6	81.8780494	0.000236	0.042404
cg06126421	6	30720080	Other	NA	23.4651251	0.000236	0.042422
cg13314778	3	70889448	Other	NA	-30.687506	0.000236	0.042422
cg04760574	10	101989519	Island	CHUK	305.388229	0.000236	0.042422
cg19379721	19	19737143	N_Shore	LPAR2	-104.83091	0.000236	0.042422
cg00728848	6	13483832	N_Shelf	GFOD1	-34.244463	0.000237	0.042426
cg27129590	12	116351979	N_Shelf	NA	-63.939873	0.000238	0.042494
cg14135809	9	140502926	S_Shelf	ARRDC1	-45.357008	0.000238	0.042494
cg00726046	20	43161260	S_Shore	PKIG	43.5430439	0.000238	0.042494
cg11381282	13	20763366	N_Shelf	GJB2	-61.067706	0.000238	0.042494
cg03388575	7	1765158	Other	ELFN1	46.0886858	0.000238	0.042559
cg08734931	10	14051649	Other	FRMD4A	37.3618052	0.000238	0.042559
cg22969108	12	15983280	Other	NA	32.1472305	0.000239	0.042592
cg08447387	8	131369596	N_Shore	ASAP1	48.8994215	0.000239	0.042604
cg23089425	8	19034837	Other	NA	32.1833009	0.000239	0.042643
cg14177325	17	1541763	S_Shelf	SCARF1	-95.880758	0.000239	0.042643
cg24716167	10	134545286	Other	INPP5A	-87.037757	0.00024	0.042643
cg21969792	4	1594995	N_Shore	NA	36.3604622	0.00024	0.042643
cg13027206	14	91866325	Other	CCDC88C	-58.259492	0.00024	0.042673
cg25450034	X	129806493	Other	ENOX2	51.6891793	0.000241	0.042673
cg01353907	12	131438283	Other	GPR133	18.2021618	0.000241	0.042673
cg08651590	2	65543410	S_Shelf	SPRED2	26.7028027	0.000241	0.042673
cg05002190	19	2926196	N_Shore	NA	54.3292772	0.000241	0.042673
cg21017569	17	7832769	Island	KCNAB3	43.9204286	0.000241	0.042673
cg08949143	13	30947713	Other	LINC00426	-67.092549	0.000241	0.042673
cg00537673	6	43141823	N_Shore	SRF	39.0268679	0.000241	0.042673
cg23922724	11	76474735	Other	NA	30.9122391	0.000241	0.042673
cg25813942	18	2843518	N_Shelf	EMILIN2	-55.058682	0.000241	0.042673
cg08572757	12	125582465	S_Shelf	AACS	-36.774569	0.000242	0.042673
cg16346422	11	2920819	N_Shelf	SLC22A18	-29.310606	0.000242	0.042673
cg20450689	18	77586147	Island	NA	-24.001604	0.000242	0.042673
cg11643457	12	80904153	Other	PTPRQ	45.8392534	0.000242	0.042673
cg16652392	1	1826227	S_Shelf	GNB1	37.2475904	0.000242	0.042732
cg07889826	3	50127152	Island	RBM5	339.641518	0.000243	0.042749
cg18009496	5	1883940	Island	IRX4	533.743776	0.000243	0.042775

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg08215318	16	86016387	Other	NA	-41.831108	0.000243	0.042797
cg04586023	22	50690380	S_Shore	HDAC10	-51.587964	0.000244	0.042931
cg23502883	15	93959149	Other	NA	-70.335377	0.000245	0.042993
cg25103895	10	64565642	Island	ADO	33.242989	0.000245	0.042993
cg21188037	7	45018658	Other	MYO1G	-50.494997	0.000245	0.042993
cg23251761	1	9750061	Island	PIK3CD	30.1320009	0.000245	0.043007
cg06796779	3	128204927	N_Shore	GATA2	41.8865065	0.000246	0.043031
cg20510285	6	11263797	Other	NEDD9	69.5159023	0.000246	0.043031
cg02932355	8	102184648	Other	NA	29.1492842	0.000246	0.043048
cg26217572	13	27540240	Other	NA	44.6784793	0.000247	0.043048
cg12974599	22	46770195	N_Shore	CELSR1	-25.702975	0.000247	0.043048
cg14365457	9	124029877	Other	GSN	-68.449753	0.000247	0.043048
cg01138020	17	4337094	Other	SPNS3	-33.975625	0.000247	0.043048
cg10504436	22	24180492	Island	DERL3	-38.953441	0.000247	0.043048
cg08599824	7	67189164	Other	NA	-85.136901	0.000247	0.043048
cg14072027	17	15301904	Other	NA	-27.658365	0.000248	0.043048
cg17796461	15	31685823	Island	NA	-50.752936	0.000248	0.043048
cg26083045	3	8560168	Other	LMCD1	-77.730993	0.000248	0.043048
cg17111087	1	167407514	N_Shore	CD247	-53.897115	0.000248	0.043048
cg21477232	2	227994951	Other	COL4A4	-80.679015	0.000248	0.043048
cg20522104	11	83251615	Other	DLG2	-45.571042	0.000248	0.043048
cg02363766	5	2008270	Island	NA	31.9610066	0.000248	0.043048
cg14699867	12	106994421	Other	RFX4	-290.50809	0.000248	0.043051
cg23694605	11	120044146	S_Shelf	NA	44.7811525	0.000248	0.043051
cg07554664	16	68431982	Other	SMPD3	65.9779181	0.000249	0.043051
cg01329756	17	80346912	Island	NA	-52.027612	0.000249	0.043051
cg26340968	19	3798367	N_Shelf	MATK	-35.747627	0.000249	0.043051
cg00184457	8	8946301	Other	NA	-24.24621	0.000249	0.043051
cg13084345	1	36948733	Other	CSF3R	-58.850132	0.000249	0.043051
cg12217560	13	24144900	Other	TNFRSF19	18.1567631	0.00025	0.043084
cg26933869	1	19218007	Other	ALDH4A1	-59.255842	0.00025	0.043084
cg02452552	5	150618048	Other	NA	23.156066	0.00025	0.043084
cg11386011	6	32121156	N_Shore	PPT2	26.2009782	0.00025	0.043084
cg05323324	3	194120023	S_Shore	GP5	-23.506305	0.00025	0.043084
cg20442379	10	60024634	N_Shelf	IPMK	-32.376769	0.00025	0.043084
cg05641529	4	100242957	Other	ADH1B	-21.056607	0.000251	0.043084
cg09920804	8	42053994	Other	PLAT	45.4627889	0.000251	0.043084
cg11361344	2	220361467	Island	GMPPA	-20.845332	0.000251	0.043084
cg21400549	1	212588848	Other	TMEM206	-78.101047	0.000251	0.043084
cg16846069	12	6462681	S_Shore	SCNN1A	-43.500345	0.000251	0.043084
cg18516365	10	111721749	Other	ADD3-AS1	53.1093984	0.000252	0.043145

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg27462969	1	67896192	Island	SERBP1	191.604052	0.000252	0.043145
cg25349990	1	229294380	Other	NA	-35.93468	0.000252	0.043188
cg00931520	16	1231484	S_Shore	CACNA1H	55.5671797	0.000252	0.043193
cg10929387	3	52864659	Other	ITIH4	30.6169901	0.000252	0.043203
cg07924703	8	22423020	Island	SORBS3	112.531278	0.000253	0.043203
cg04821959	12	106900710	Other	POLR3B	-61.061614	0.000253	0.043274
cg19802165	5	134370033	Island	PITX1	2312.22292	0.000253	0.043274
cg22213622	12	22090730	N_Shelf	ABCC9	-52.124293	0.000254	0.043389
cg03750034	8	94430696	Other	LINC00535	-113.5341	0.000254	0.043389
cg24295653	3	61237884	S_Shore	FHIT	52.542742	0.000255	0.043447
cg04172497	11	59382296	N_Shore	OSBP	83.1937382	0.000255	0.043473
cg09449150	11	129731815	Other	NA	53.8221671	0.000255	0.043509
cg05754058	7	41094211	Other	NA	-41.999976	0.000256	0.043509
cg26146988	14	102034601	S_Shelf	NA	36.8596123	0.000256	0.04352
cg07120544	8	93076082	Other	RUNX1T1	31.0533433	0.000256	0.04352
cg21012737	14	105393171	Other	PLD4	-46.16149	0.000256	0.04352
cg08749735	17	16488023	S_Shore	NA	55.6002148	0.000256	0.04352
cg03421236	16	49486155	Other	NA	-29.621398	0.000257	0.04352
cg21871050	13	24269500	Island	NA	-96.093832	0.000257	0.04352
cg19522050	10	101281275	Island	NA	54.1199276	0.000257	0.04352
cg03978682	5	53411773	Other	ARL15	-61.74292	0.000257	0.04352
cg26588061	10	12086036	S_Shore	UPF2	-67.39085	0.000257	0.04352
cg11841649	5	131989505	N_Shelf	IL13	23.328614	0.000257	0.04352
cg03845683	11	64933489	Other	SPDYC	32.2919948	0.000257	0.04352
cg03730946	19	6475456	Island	DENND1C	45.6532934	0.000258	0.04352
cg20425130	3	183273245	Other	KLHL6	-26.576149	0.000258	0.04352
cg02793854	16	67867809	Island	CENPT	487.904811	0.000258	0.043557
cg16668176	19	5308893	Other	PTPRS	26.6846123	0.000258	0.043557
cg00830419	2	20371971	Other	NA	26.6847429	0.000259	0.043557
cg06968164	13	45629698	Other	NA	54.7740351	0.000259	0.043557
cg27141517	15	66923526	Other	NA	-62.680149	0.000259	0.043557
cg09739398	11	47416886	S_Shore	NA	-24.949278	0.000259	0.043557
cg11723077	6	158508188	S_Shore	SYNJ2	-39.142001	0.000259	0.043557
cg16810559	3	64090850	Other	PRICKLE2-AS2	31.261923	0.000259	0.043557
cg19192626	17	38708638	Other	NA	27.7884647	0.000259	0.043557
cg17541674	19	51296949	S_Shore	ACPT	48.1397127	0.00026	0.043557
cg26219182	1	32687590	Island	TMEM234	479.843564	0.00026	0.043557
cg16418183	16	51360402	Other	NA	39.4658353	0.00026	0.043557
cg09634176	6	100037332	Island	NA	206.290094	0.00026	0.043557
cg12958561	4	26460878	Other	NA	42.2536442	0.00026	0.043557
cg00451635	16	10675030	S_Shore	EMP2	55.0819534	0.00026	0.043557

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg04917208	16	70680104	Other	IL34	44.6397955	0.00026	0.043557
cg04329382	22	46480891	N_Shore	MIRLET7BHG	39.0763045	0.000261	0.043557
cg07708453	1	14032034	Other	PRDM2	-139.04624	0.000261	0.043557
cg00387090	1	201615401	N_Shore	NAV1	-27.054305	0.000261	0.043579
cg11277662	8	143408047	Island	TSNARE1	-56.791155	0.000261	0.043579
cg07778315	12	133380627	S_Shore	GOLGA3	48.1256781	0.000261	0.043579
cg20005057	12	10364834	N_Shore	GABARAPL1	105.761441	0.000262	0.043604
cg16472369	17	4618322	S_Shelf	ARRB2	-49.299117	0.000262	0.043604
cg03473377	10	33568029	Other	NRP1	-59.671124	0.000262	0.043604
cg10436257	16	30959496	Island	ORAI3	32.1655243	0.000262	0.043604
cg15200801	19	48999042	N_Shore	LMTK3	-48.030967	0.000262	0.043604
cg06988336	16	89922397	S_Shore	SPIRE2	-47.2356	0.000263	0.043604
cg23193059	11	116706090	N_Shore	APOA1	-19.445039	0.000263	0.043604
cg15348869	12	119418004	N_Shore	SRRM4	274.038968	0.000263	0.043604
cg09315878	1	1152580	Island	TNFRSF4	-25.307876	0.000263	0.043604
cg27447296	2	27994265	N_Shore	MRPL33	95.4367383	0.000263	0.043604
cg16759783	18	77746937	N_Shore	TXNL4A	37.3579659	0.000263	0.043604
cg03654841	16	88615609	Other	NA	142.393526	0.000263	0.043604
cg13966557	4	184908884	Other	STOX2	25.065504	0.000264	0.043725
cg26785896	12	58013354	Island	SLC26A10	-40.46382	0.000264	0.043725
cg09447621	11	134254646	S_Shore	B3GAT1	-37.301648	0.000265	0.043818
cg18506124	19	35629603	N_Shelf	FXYD1	33.4595182	0.000265	0.043823
cg14311559	12	7060257	Other	PTPN6	-49.772101	0.000265	0.043823
cg02258139	7	97841513	N_Shore	BHLHA15	-99.279243	0.000266	0.043823
cg10990081	3	3168142	N_Shore	TRNT1	27.4216626	0.000266	0.043901
cg11287077	5	158590712	Other	RNF145	48.2386503	0.000267	0.043904
cg08204162	8	22785567	Other	PEBP4	35.0619888	0.000267	0.043904
cg02059317	16	89024511	Other	CBFA2T3	-55.759888	0.000267	0.043904
cg20267775	1	171623695	Other	MYOC	35.7485726	0.000267	0.043904
cg14935646	7	27215464	S_Shore	HOXA10	-30.20454	0.000267	0.043904
cg27584146	1	46599915	S_Shore	PIK3R3	-51.350359	0.000268	0.043904
cg14088811	11	47399994	Island	SPI1	-50.340408	0.000268	0.043904
cg21550219	5	135394043	Other	TGFB1	33.5431549	0.000268	0.043904
cg16144864	1	177244231	Other	FAM5B	37.3363266	0.000268	0.043904
cg02845870	11	85524670	S_Shelf	SYTL2	-72.928936	0.000268	0.043904
cg23152742	12	132920884	N_Shore	NA	28.0752568	0.000268	0.043904
cg03574571	19	35820181	Other	CD22	-69.499244	0.000268	0.043904
cg18589526	7	138575872	Other	KIAA1549	49.6621188	0.000269	0.043904
cg23704627	22	39152758	S_Shore	SUN2	-41.249365	0.000269	0.043904
cg27175943	16	85334190	Other	NA	-58.128103	0.000269	0.043904
cg05227215	5	139057496	S_Shore	CXXC5	31.2606902	0.000269	0.043904

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg02699829	19	13216355	S_Shore	LYL1	-46.168816	0.000269	0.043904
cg09350536	14	23236725	S_Shore	OXA1L	165.779818	0.000269	0.043904
cg04330176	10	105619211	S_Shelf	SH3PXD2A	40.6858998	0.000269	0.043904
cg10223234	6	31926205	N_Shore	SKIV2L	46.9994456	0.000269	0.043904
cg18498263	14	91034963	Other	TTC7B	21.8630453	0.00027	0.043904
cg21325802	7	16948307	Other	NA	-43.244536	0.00027	0.043904
cg21643095	11	105009375	Other	CARD18	68.6330697	0.00027	0.043904
cg04333785	10	31446813	Other	NA	35.1670675	0.00027	0.043904
cg18269493	1	8772984	Other	RERE	-33.503331	0.00027	0.043904
cg17451138	12	124155880	Island	TCTN2	401.384345	0.000271	0.043904
cg13460556	15	89709638	Other	ABHD2	-15.484694	0.000271	0.043904
cg26604895	5	89842121	Other	NA	40.3247221	0.000271	0.043904
cg22776771	X	107976903	N_Shore	IRS4	44.1608796	0.000271	0.043904
cg21531685	3	73672063	N_Shore	PDZRN3	29.086415	0.000271	0.043904
cg14805932	2	241401799	Island	GPC1	-133.33693	0.000271	0.043904
cg26633373	19	54377836	S_Shore	MYADM	-34.822553	0.000271	0.043904
cg14938313	11	70028676	Other	ANO1	-63.737787	0.000271	0.043904
cg22986569	5	2659008	Other	NA	30.7731011	0.000272	0.043904
cg04204526	1	2980937	S_Shore	LINC00982	53.2500808	0.000272	0.043904
cg10191684	8	22423014	Island	SORBS3	139.496933	0.000272	0.043904
cg06764092	1	159796658	Other	SLAMF8	-32.124064	0.000272	0.04394
cg06766636	6	116598395	N_Shelf	TSPYL1	42.5303221	0.000273	0.04397
cg02807984	11	722258	S_Shore	EPS8L2	-35.247137	0.000273	0.04397
cg03732020	11	47282968	Other	NR1H3	-32.848928	0.000273	0.043985
cg14213992	19	40503358	S_Shore	ZNF546	143.547902	0.000273	0.043995
cg09806318	6	1383064	Island	NA	-62.27088	0.000274	0.044049
cg16717713	14	100069657	Island	CCDC85C	-27.384735	0.000274	0.044058
cg07888661	10	73759402	Other	CHST3	58.7902174	0.000274	0.044094
cg23033749	7	116610238	Other	ST7	-62.423327	0.000275	0.044139
cg06750038	16	87425101	N_Shore	FBXO31	41.2967212	0.000275	0.044144
cg11328127	11	415441	N_Shore	SIGIRR	-27.113411	0.000275	0.044163
cg21110337	12	113671028	Other	TPCN1	-32.053929	0.000275	0.044164
cg03678274	1	236017128	Other	MIR1537	-29.252832	0.000276	0.044197
cg05798429	6	31743928	Other	VWA7	-62.191139	0.000276	0.044203
cg26011438	17	1964730	S_Shelf	SMG6	69.4957505	0.000276	0.044203
cg23685650	14	56045894	N_Shore	KTN1-AS1	34.8339514	0.000277	0.044203
cg02776658	19	35800589	N_Shore	MAG	22.7826701	0.000277	0.044203
cg02807008	19	1910258	N_Shore	SCAMP4	30.4895138	0.000277	0.044203
cg03772108	7	116889900	Other	NA	-79.396495	0.000277	0.044203
cg03543648	22	42319809	N_Shelf	TNFRSF13C	-112.88361	0.000277	0.044203
cg03781727	7	22007540	Other	NA	-23.909137	0.000277	0.044203

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg14685146	17	42088751	N_Shelf	TMEM101	22.7525332	0.000277	0.044203
cg05283597	3	52812410	Other	ITIH1	-37.55075	0.000277	0.044203
cg26504229	21	45149038	Island	PDXK	32.5918552	0.000278	0.044219
cg23334306	14	33945217	Other	NPAS3	-55.358022	0.000278	0.044249
cg00580562	10	21789124	Island	C10orf114	-19.846809	0.000278	0.044293
cg14211332	1	117255389	Other	NA	-53.647325	0.000278	0.044293
cg00083659	22	37404577	Other	TEX33	-22.644758	0.000279	0.044315
cg07978738	10	116298339	Other	ABLIM1	-55.300188	0.000279	0.044323
cg01247127	20	1538366	Other	SIRPD	52.5249663	0.000279	0.044323
cg21599100	11	2920437	N_Shelf	SLC22A18	-74.947957	0.000279	0.044323
cg06812840	17	7492524	Island	SOX15	73.6778084	0.00028	0.04434
cg24761567	6	40687984	Other	NA	-52.116997	0.00028	0.04434
cg06638568	6	163730822	Other	PACRG	-37.554426	0.00028	0.04434
cg21301505	1	159796629	Other	SLAMF8	-28.924237	0.00028	0.04434
cg07175797	16	50317656	Other	ADCY7	-50.598334	0.00028	0.04434
cg13084335	11	111782670	Other	CRYAB	40.3092004	0.00028	0.04434
cg00255726	8	21769114	N_Shore	DOK2	-61.714973	0.000281	0.044365
cg08578641	9	34457440	Island	FAM219A	30.9738191	0.000281	0.044365
cg03736235	19	1071622	Island	HMHA1	38.6864661	0.000281	0.044365
cg24997703	14	105969175	S_Shelf	NA	70.4618809	0.000281	0.044365
cg27477250	19	12841735	N_Shelf	C19orf43	71.6989413	0.000282	0.044365
cg16674248	22	46664402	S_Shore	TTC38	30.0763141	0.000282	0.044365
cg23889967	10	131568313	Other	NA	-72.946577	0.000282	0.044365
cg11064966	5	32506514	Other	NA	82.6350905	0.000282	0.044365
cg24848189	11	44338968	S_Shore	NA	-57.400134	0.000282	0.044365
cg02893604	14	23512805	Other	PSMB11	84.7440829	0.000282	0.044365
cg07092212	11	46382544	Other	DGKZ	-34.096856	0.000282	0.044365
cg14765414	13	113652335	N_Shelf	MCF2L	-45.511017	0.000282	0.044365
cg24492778	15	57414740	Other	TCF12	-38.873855	0.000283	0.044365
cg10472067	20	35402298	Island	DSN1	766.402082	0.000283	0.044365
cg25523538	10	28031957	Island	MKX	538.956355	0.000283	0.044365
cg17153426	22	24640743	Other	GGT5	33.1390054	0.000284	0.044365
cg22541400	17	9840728	Other	GAS7	39.3960491	0.000284	0.044365
cg20165746	8	8870185	Other	ERI1	-43.741102	0.000284	0.044365
cg04697299	2	200849634	Other	NA	33.58326	0.000284	0.044365
cg12484113	1	27898757	N_Shelf	AHDC1	44.4891951	0.000284	0.044365
cg24139443	17	74131549	N_Shelf	NA	43.4012637	0.000284	0.044365
cg01942776	14	30920008	Other	NA	20.5861558	0.000284	0.044365
cg06081306	17	37760830	N_Shore	NEUROD2	104.423769	0.000285	0.044365
cg14292572	12	67665055	S_Shore	CAND1	21.5491788	0.000285	0.044365
cg18544564	2	189839120	Other	COL3A1	31.1999376	0.000285	0.044365

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

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cg01775245	8	6452110	Other	MCPH1	41.9987393	0.000285	0.044365
cg16874347	2	86450216	Other	REEP1	39.4321093	0.000285	0.044365
cg09107438	12	56819060	Other	TIMELESS	-22.838255	0.000285	0.044365
cg20471783	12	50157085	Other	TMBIM6	-36.950144	0.000285	0.044365
cg06169276	11	71164262	Island	NADSYN1	1026.05494	0.000286	0.044365
cg23502162	2	189839015	Other	COL3A1	35.6142984	0.000286	0.044365
cg00450164	1	209930127	Other	TRAF3IP3	-31.168113	0.000286	0.044365
cg21228270	9	133871033	Other	NA	-29.028021	0.000286	0.044365
cg06566994	3	44596384	N_Shore	ZKSCAN7	27.4730798	0.000286	0.044365
cg24850296	12	25707569	Other	IFLTD1	-57.974843	0.000286	0.044365
cg17745697	2	38138126	Other	NA	-60.568228	0.000286	0.044397
cg02674693	11	45109122	Other	NA	37.2716474	0.000287	0.044397
cg08251901	12	15114904	Other	ARHGDI3	-18.473493	0.000287	0.044397
cg23709430	17	3977501	Other	ZZEF1	-64.825464	0.000287	0.044397
cg13895322	12	6877740	S_Shore	PTMS	27.5414685	0.000287	0.044414
cg17244340	6	36973448	Other	FGD2	-35.137312	0.000287	0.044414
cg24710179	11	642975	N_Shore	NA	-83.101633	0.000288	0.044414
cg02063520	6	102516590	Other	GRIK2	28.6950808	0.000288	0.044414
cg13509421	12	110476821	Other	ANKRD13A	28.7955615	0.000288	0.044414
cg18113826	6	31583942	N_Shelf	AIF1	-59.35347	0.000288	0.044414
cg18502630	9	139871955	N_Shore	PTGDS	47.8657056	0.000288	0.044414
cg16689434	16	90089547	S_Shore	GAS8	32.2225221	0.000288	0.044414
cg25618198	13	26423104	Other	ATP8A2	47.0472401	0.000289	0.044525
cg12617080	1	156509844	Other	IQGAP3	-67.387694	0.000289	0.044525
cg11842502	6	111862202	Other	TRAF3IP2-AS1	-34.261911	0.00029	0.044528
cg12012524	19	1268008	Island	CIRBP	43.0054637	0.00029	0.044528
cg20136855	1	12233852	Other	TNFRSF1B	-26.193827	0.00029	0.044528
cg02086790	16	375327	Island	AXIN1	-50.618803	0.00029	0.044546
cg21939215	11	60738995	Other	CD6	-51.079647	0.00029	0.044552
cg02659854	13	24824078	Other	SPATA13-AS1	-52.687999	0.00029	0.044552
cg07137429	10	100093476	Other	NA	-47.402216	0.000291	0.044552
cg23627149	1	193155273	Other	B3GALT2	24.0925078	0.000291	0.044552
cg02405503	15	68871738	Island	CORO2B	-133.11983	0.000291	0.044552
cg13038847	22	28073997	Island	NA	-54.066507	0.000291	0.044552
cg09761367	1	25360712	Other	NA	-30.293434	0.000291	0.044552
cg23972298	1	32665582	N_Shore	CCDC28B	31.5945895	0.000291	0.044552
cg22774605	6	47247047	Other	TNFRSF21	-18.679683	0.000292	0.044558
cg06548416	1	24438703	Other	MYOM3	88.9632771	0.000292	0.044609
cg04202957	2	207023158	N_Shore	NDUFS1	69.0368841	0.000293	0.044649
cg02881939	2	43860690	N_Shelf	PLEKHH2	103.031047	0.000293	0.044649
cg20309061	15	42693555	Other	CAPN3	-44.535577	0.000293	0.044651

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cg06319579	17	8127196	S_Shore	LINC00324	42.8158287	0.000293	0.044651
cg16532400	7	150217056	Other	GIMAP7	-35.022456	0.000293	0.044651
cg06618298	5	16913076	Other	MYO10	31.1603713	0.000293	0.044651
cg26675485	16	67968879	N_Shore	PSMB10	44.1589952	0.000295	0.044791
cg04332442	22	46770063	N_Shore	CELSR1	-24.541211	0.000295	0.044791
cg01357846	2	79252794	Other	REG3G	31.2842491	0.000295	0.044797
cg00955682	5	138677338	Island	PAIP2	1162.93355	0.000295	0.044797
cg08380252	19	35530254	N_Shore	HPN	-26.860246	0.000295	0.044797
cg23586138	2	27719544	S_Shore	GCKR	-47.861478	0.000296	0.044797
cg16389209	10	63809121	Other	ARID5B	39.9723773	0.000296	0.044797
cg09795027	17	74006440	S_Shore	EVPL	-50.135035	0.000296	0.044797
cg02481950	16	21665002	Other	IGSF6	-52.256578	0.000296	0.044797
cg14679668	8	102130344	Other	NA	-23.129176	0.000296	0.044797
cg20332354	12	91451819	Other	KERA	25.8353273	0.000297	0.044797
cg12282777	15	74203067	Other	NA	-77.181404	0.000297	0.044797
cg22908922	14	105855008	S_Shelf	PACS2	-59.040196	0.000297	0.044797
cg05453924	13	24079390	Other	NA	26.918512	0.000297	0.044797
cg09594075	17	1358505	N_Shore	CRK	74.9248952	0.000297	0.044797
cg09618904	20	34026478	S_Shelf	GDF5	27.8099188	0.000297	0.044797
cg16562342	1	109783503	Other	NA	36.2431426	0.000298	0.044797
cg13629388	6	170687780	S_Shore	FAM120B	-30.918275	0.000298	0.044797
cg17285709	2	220300242	Island	SPEG	-56.368094	0.000298	0.044797
cg01210113	16	11352835	S_Shelf	SOCS1	-42.395945	0.000298	0.044797
cg12133423	8	1094575	N_Shore	NA	-42.964077	0.000298	0.044797
cg03700135	17	707059	N_Shore	NXN	42.0103342	0.000299	0.044797
cg05671385	11	104915759	Other	CARD16	-32.840527	0.000299	0.044797
cg04221624	10	72274527	Other	PALD1	-38.930723	0.000299	0.044797
cg17687962	19	51358244	Other	KLK3	-52.699656	0.000299	0.044797
cg03529043	6	31021134	Other	HCG22	-45.422452	0.000299	0.044797
cg07777703	17	40811829	S_Shore	TUBG2	86.6833539	0.000299	0.044797
cg24448340	1	179921042	N_Shelf	CEP350	-78.097748	0.000299	0.044797
cg03545548	3	167320581	Other	WDR49	-32.481728	0.0003	0.044797
cg13423054	3	160192028	Other	NA	51.2761644	0.0003	0.044797
cg26564172	1	183728338	Other	RGL1	46.01543	0.0003	0.044797
cg26433582	11	68848232	N_Shore	TPCN2	-56.042208	0.0003	0.044797
cg05999377	X	152712061	S_Shore	TREX2	-69.852791	0.0003	0.044797
cg06677151	10	616959	Other	DIP2C	24.2772602	0.0003	0.044797
cg15815084	17	54912870	S_Shore	DGKE	-19.058424	0.0003	0.044797
cg16699540	3	156793711	Other	NA	-29.126678	0.000301	0.044797
cg17222164	17	43339476	Island	SPATA32	68.1069712	0.000301	0.044797
cg11538810	22	46481727	N_Shore	MIRLET7BHG	49.498228	0.000302	0.044797

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg07148896	1	11119225	Island	SRM	42.9809547	0.000302	0.044797
cg08639762	1	201437298	N_Shore	PHLDA3	32.4602109	0.000302	0.044797
cg04818845	1	6580167	Other	PLEKHG5	52.0838897	0.000302	0.044797
cg25199283	1	38099265	N_Shore	RSPO1	-61.699969	0.000302	0.044797
cg25623459	11	1861344	Other	TNNI2	-34.351019	0.000302	0.044797
cg10544324	3	53915957	Island	ACTR8	158.706004	0.000302	0.044797
cg22113926	17	28566331	S_Shelf	SLC6A4	-83.420067	0.000302	0.044797
cg04664126	6	28554262	N_Shore	SCAND3	22.7234433	0.000302	0.044797
cg04822621	5	169724656	Other	LCP2	-23.085057	0.000302	0.044797
cg13029400	3	141087190	Other	ZBTB38	57.3292256	0.000302	0.044797
cg21311067	19	4916983	S_Shore	UHRF1	-44.221724	0.000303	0.044797
cg25765104	1	167601275	S_Shore	RCSD1	-52.302213	0.000303	0.044797
cg21306988	13	108867134	Island	LIG4	27.2061096	0.000303	0.044797
cg02370667	16	84029511	Island	NECAB2	-35.258744	0.000303	0.044797
cg17297216	15	99194474	Island	IGF1R	63.9668213	0.000303	0.044797
cg16064425	14	101111348	Other	NA	-38.416436	0.000303	0.044797
cg27487796	7	28973253	Other	NA	22.3483782	0.000303	0.044797
cg13216022	15	51631687	N_Shelf	CYP19A1	-29.118188	0.000304	0.044858
cg19011001	14	93539613	Other	ITPK1	-40.995051	0.000304	0.044862
cg08370546	7	56160770	Other	PHKG1	41.9152961	0.000304	0.044895
cg12656307	1	2349734	S_Shelf	NA	72.0407387	0.000305	0.044934
cg11338389	11	63742044	Island	COX8A	1119.03332	0.000305	0.044972
cg18213495	6	17985408	N_Shelf	KIF13A	61.3319822	0.000305	0.044986
cg11234013	11	27646797	Other	LINC00678	-22.512964	0.000306	0.045053
cg04233521	1	27743080	Other	WASF2	-44.700394	0.000306	0.045053
cg07263492	8	99835768	N_Shore	STK3	-50.337	0.000306	0.045053
cg27366766	17	56565286	Island	HSF5	-37.845871	0.000307	0.04511
cg06419959	9	140354043	Island	NSMF	322.973781	0.000307	0.045126
cg04112866	2	105925965	Other	TGFBRAP1	-43.404918	0.000307	0.045126
cg03467087	6	158448134	Other	SYNJ2	-25.395014	0.000308	0.045126
cg03293883	6	86124742	Other	NA	-35.698397	0.000308	0.045126
cg03001305	17	40439492	N_Shore	STAT5A	-42.484722	0.000308	0.045126
cg20531872	3	196440087	S_Shore	PIGX	87.0192431	0.000308	0.045199
cg02185248	17	78748494	Other	RPTOR	-54.445742	0.000309	0.045199
cg14045814	2	219267341	S_Shore	MIR26B	45.1225698	0.000309	0.045199
cg06592027	5	38445220	Other	EGFLAM	24.6337045	0.000309	0.045199
cg23433370	12	27396894	N_Shore	STK38L	-41.26764	0.000309	0.045199
cg11002208	2	241562650	Island	GPR35	-36.494187	0.000309	0.045199
cg05185634	14	24804750	S_Shore	ADCY4	-91.183686	0.00031	0.045223
cg20306842	7	28475265	Other	CREB5	-74.716736	0.00031	0.045223
cg16499834	12	131355834	N_Shore	RAN	32.2502479	0.00031	0.045223

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg23992426	11	47870622	S_Shore	NUP160	119.337519	0.00031	0.045223
cg15529532	10	15077470	Other	NA	-41.41294	0.00031	0.045224
cg19357849	19	8071093	Other	ELAVL1	107.128802	0.00031	0.045233
cg24566261	6	30854164	S_Shore	DDR1	50.513464	0.00031	0.045233
cg04442631	22	36593144	Other	APOL4	-19.453914	0.000311	0.045271
cg22613905	2	240039481	Other	HDAC4	-66.746853	0.000311	0.045271
cg18081338	6	17212963	Other	NA	34.2903488	0.000312	0.045271
cg04869379	13	109610256	Other	MYO16	24.0342956	0.000312	0.045271
cg11999571	8	25442428	Other	NA	28.1105512	0.000312	0.045271
cg15658306	6	41168972	Other	TREML2	-42.916619	0.000312	0.045271
cg07766743	8	27348001	N_Shore	EPHX2	26.7709889	0.000312	0.045271
cg22073869	13	98866089	Other	FARP1	46.7306308	0.000312	0.045271
cg25243775	22	45903119	S_Shelf	FBLN1	67.3417415	0.000312	0.045293
cg21579294	13	113997499	Other	GRTP1	-53.684638	0.000313	0.045347
cg26780138	16	477087	S_Shore	RAB11FIP3	131.845422	0.000313	0.045347
cg05266786	10	49742271	Other	ARHGAP22	26.8066435	0.000314	0.045405
cg26792089	16	28518200	Other	IL27	-55.689634	0.000314	0.045471
cg22260478	6	132272790	S_Shore	CTGF	47.3503324	0.000315	0.045473
cg27395391	6	16375082	Other	ATXN1	25.2591	0.000315	0.045473
cg07630327	5	131008111	Other	FNIP1	19.3531638	0.000315	0.045473
cg01367328	7	162351	S_Shelf	NA	-43.062233	0.000315	0.045473
cg10726475	3	149375252	Island	WWTR1	277.340426	0.000315	0.045473
cg22935317	14	23447078	N_Shelf	AJUBA	33.7005485	0.000315	0.045473
cg04432599	17	4835608	Other	GP1BA	-32.840276	0.000315	0.045473
cg05616355	11	124480990	Other	PANX3	38.8663145	0.000316	0.045473
cg20538986	17	19295550	Other	NA	41.8666004	0.000316	0.045474
cg18230356	X	135045624	Other	MMGT1	95.8251182	0.000316	0.045486
cg02102684	16	4421445	N_Shore	VASN	32.4933104	0.000316	0.045486
cg12136883	4	120613606	Other	NA	38.1800559	0.000317	0.04552
cg16706099	11	100590197	Other	ARHGAP42	39.3173222	0.000317	0.045527
cg10464462	17	33417059	S_Shore	RFFL	-29.742692	0.000317	0.045565
cg06591011	4	111086137	Other	ELOVL6	-35.408997	0.000318	0.045648
cg17166282	13	103249241	Island	TPP2	7684.04884	0.000318	0.045648
cg05802141	16	29911556	Island	ASPHD1	3807.06132	0.000318	0.045648
cg10919177	3	44519663	S_Shore	ZNF445	35.1761973	0.000318	0.045648
cg00071391	4	126560514	Other	NA	23.6616528	0.000319	0.045671
cg17736336	5	148788401	Other	MIR143HG	40.4434731	0.000319	0.045684
cg10592592	10	74034663	Island	DDIT4	45.2194618	0.000319	0.045703
cg24525952	7	2127830	Other	MAD1L1	-50.363347	0.00032	0.045736
cg00137016	19	52675231	S_Shore	ZNF836	40.539364	0.00032	0.045736
cg17426905	7	50612053	Other	DDC	75.3752416	0.00032	0.045736

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg09852607	3	128205200	N_Shore	GATA2	29.7019196	0.00032	0.045736
cg00917031	9	123477533	S_Shore	MEGF9	46.228047	0.000321	0.045736
cg26608486	16	88482341	Other	NA	-79.977229	0.000321	0.045736
cg22898924	19	4903952	Other	ARRDC5	-52.671197	0.000321	0.045736
cg01595717	9	140586201	N_Shore	EHMT1	-31.87486	0.000321	0.045765
cg10299128	4	82796846	Other	NA	-31.308455	0.000321	0.045765
cg05885577	10	104597359	Other	CYP17A1	39.101744	0.000321	0.045781
cg07212541	15	101442710	Other	ALDH1A3	31.3277532	0.000322	0.045805
cg12708109	1	168397916	Other	NA	37.4452541	0.000322	0.045821
cg20942867	1	27426144	Other	SLC9A1	35.2719607	0.000322	0.045821
cg04661001	19	19217217	N_Shelf	SLC25A42	50.3813737	0.000322	0.045827
cg04441857	10	14701815	Other	FAM107B	-51.02137	0.000323	0.045829
cg23121335	11	67784489	Other	ALDH3B1	136.852977	0.000323	0.045863
cg16582803	2	219763642	S_Shore	NA	40.3143812	0.000323	0.045863
cg24699699	1	93258316	Other	EVI5	-27.643737	0.000324	0.045915
cg02551095	15	33597346	Other	NA	-45.073391	0.000324	0.045928
cg23484159	14	74184843	N_Shore	PNMA1	44.1673011	0.000324	0.045928
cg05420143	2	210286628	N_Shore	MAP2	36.2288472	0.000325	0.045987
cg01715248	9	93953608	N_Shore	NA	-65.496647	0.000325	0.045987
cg08343834	17	15168658	S_Shelf	PMP22	22.7128014	0.000325	0.045991
cg01063509	1	20502234	Other	PLA2G2C	36.4857623	0.000325	0.045994
cg15484406	14	94461913	Other	LINC00521	34.3546882	0.000325	0.045994
cg16013543	1	154300241	N_Shore	ATP8B2	-45.662104	0.000326	0.045994
cg02072940	6	31656126	Other	ABHD16A	71.1456345	0.000326	0.045994
cg26337914	7	157461081	Other	PTPRN2	-59.690134	0.000326	0.045994
cg11934819	20	1472078	Other	SIRPB2	-36.475897	0.000326	0.045994
cg07975680	10	73225789	Other	CDH23	-37.033707	0.000326	0.045994
cg12545949	6	71571446	Other	B3GAT2	-84.79943	0.000326	0.045994
cg04656451	20	5626258	Other	NA	-27.617918	0.000327	0.046012
cg25503381	15	39871923	N_Shore	THBS1	46.049718	0.000327	0.046035
cg26022064	7	98739782	N_Shore	SMURF1	37.0262405	0.000327	0.046035
cg24063856	17	43863303	S_Shore	CRHR1	-23.557211	0.000328	0.046035
cg00193668	9	35814283	N_Shore	HINT2	50.4729504	0.000328	0.046035
cg02839593	16	66934539	Other	NA	43.026837	0.000328	0.046035
cg08428819	10	123924042	S_Shore	TACC2	-53.728497	0.000328	0.046035
cg17372758	10	73976798	S_Shore	ASCC1	25.8627382	0.000328	0.046035
cg23359665	6	32120907	N_Shore	PPT2	52.6990239	0.000328	0.046035
cg16151795	11	1918450	Other	NA	-50.879295	0.000329	0.046035
cg24484905	1	58530146	Other	DAB1	-153.61344	0.000329	0.046035
cg12635120	12	121345228	S_Shelf	SPPL3	21.6807591	0.000329	0.046035
cg00054706	2	68289972	Other	C1D	597.819512	0.000329	0.046035

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg13284470	2	69001115	Other	ARHGAP25	-30.852672	0.000329	0.046035
cg15621731	19	5074616	Island	KDM4B	-51.219121	0.000329	0.046035
cg25143508	1	203449947	Other	PRELP	49.2906072	0.000329	0.046035
cg20731384	10	134993392	S_Shore	KNDC1	-44.43628	0.00033	0.046042
cg02945192	19	1038140	N_Shore	ABCA7	-50.56408	0.00033	0.046042
cg17603988	7	56160766	Other	PHKG1	30.6090353	0.00033	0.046042
cg04237436	11	35808688	Other	TRIM44	53.6485633	0.00033	0.046042
cg09763644	1	207103660	Other	PIGR	-32.672961	0.00033	0.046042
cg04682967	22	37608626	Other	SSTR3	69.2263545	0.000331	0.046067
cg03208902	16	3265467	Other	OR1F2P	-33.682685	0.000331	0.046067
cg24724587	1	86044103	S_Shore	DDAH1	39.6189974	0.000331	0.046067
cg00502509	7	1956121	Other	MAD1L1	-37.227285	0.000331	0.046067
cg20969822	19	41787138	Other	HNRNPUL1	36.0782752	0.000331	0.046067
cg07682037	11	63974153	N_Shore	FERMT3	-52.012367	0.000332	0.046067
cg08947774	4	169644750	Other	PALLD	-31.761638	0.000332	0.046067
cg03498081	16	80061357	Other	NA	-34.235444	0.000332	0.046067
cg12950181	5	93447648	S_Shore	FAM172A	47.6097155	0.000332	0.046067
cg21957813	11	44638520	Other	CD82	43.7780528	0.000332	0.046067
cg24742298	17	27309486	N_Shelf	SEZ6	-22.311519	0.000332	0.046067
cg13475578	12	99548550	Other	ANKS1B	44.1297775	0.000332	0.046067
cg17329202	13	113807930	S_Shore	NA	38.3660543	0.000332	0.046067
cg17845532	19	3786643	Island	MATK	47.6382547	0.000333	0.04609
cg02054776	1	165326345	S_Shore	LMX1A	-35.35608	0.000333	0.04609
cg24342094	1	112047496	Other	ADORA3	-120.59216	0.000333	0.04609
cg02149069	12	6649733	Island	IFFO1	-34.025644	0.000334	0.04609
cg14781394	19	16441457	S_Shelf	NA	-38.058939	0.000334	0.04609
cg06760507	1	161168145	N_Shelf	ADAMTS4	40.6465364	0.000334	0.04609
cg18003659	2	175629267	Other	CHRNA1	48.3842603	0.000334	0.04609
cg27425413	6	4974439	Other	NA	28.3866085	0.000334	0.04609
cg09106231	1	207455715	Other	NA	-34.028766	0.000335	0.04609
cg13689831	1	227175077	Other	ADCK3	-43.515202	0.000335	0.04609
cg19211853	13	79968216	Other	RBM26	-28.102322	0.000335	0.04609
cg12054981	8	42037387	Other	PLAT	-28.310339	0.000335	0.04609
cg00679520	12	63133578	Other	PPM1H	23.6318084	0.000335	0.04609
cg25963980	11	35442225	S_Shore	SLC1A2	-29.382488	0.000336	0.04609
cg21578596	6	32906460	Other	HLA-DMB	-43.815641	0.000336	0.04609
cg09773238	11	113424208	Other	NA	23.0556607	0.000336	0.04609
cg09990481	10	90712684	Other	ACTA2	46.0202808	0.000336	0.04609
cg02866149	20	35405989	S_Shelf	DSN1	57.3715624	0.000336	0.04609
cg24777399	2	109855574	Other	SH3RF3	-41.737509	0.000337	0.04609
cg00849854	17	17780937	Other	TOM1L2	35.2576002	0.000337	0.04609

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg10548978	10	72545053	Other	TBATA	-69.8414	0.000337	0.04609
cg04132891	3	112351647	Other	CCDC80	38.7540771	0.000337	0.04609
cg17674726	2	231743193	Other	ITM2C	-57.707366	0.000337	0.04609
cg01638225	4	1202930	N_Shore	SPON2	40.0988199	0.000337	0.04609
cg04079779	16	2256121	S_Shore	MLST8	72.5804907	0.000337	0.04609
cg13930766	9	122577345	Other	NA	-57.054259	0.000337	0.04609
ch.6.16900848	6	169266563	Other	NA	-36.096398	0.000337	0.04609
cg17893934	10	858817	S_Shelf	LARP4B	51.4524652	0.000337	0.04609
cg06556244	7	143089459	Other	EPHA1	57.1648008	0.000338	0.04609
cg21667244	13	111281324	S_Shelf	CARKD	43.9255024	0.000338	0.04609
cg19749538	4	78114867	Other	NA	-43.474753	0.000338	0.04609
cg23950714	5	176935364	S_Shelf	DOK3	-35.07299	0.000338	0.04609
cg06901890	9	132803508	N_Shore	FNBP1	-54.124467	0.000338	0.04609
cg24129177	12	132076442	Other	NA	55.2648773	0.000338	0.046128
cg15620114	10	91296457	S_Shore	SLC16A12	-100.81817	0.000339	0.046134
cg24590430	10	99097076	S_Shelf	FRAT2	36.5288439	0.000339	0.04618
cg15907473	13	95253641	N_Shore	GPR180	46.2758467	0.000339	0.046198
cg07096238	2	66589902	Other	MIR4778	-34.352606	0.00034	0.046242
cg09398762	13	107571965	S_Shore	NA	-19.643312	0.00034	0.046242
cg11736942	14	105054436	N_Shore	C14orf180	-74.291288	0.00034	0.046242
cg26078436	11	5265992	Other	HBBP1	26.2489525	0.000341	0.046249
cg25940517	12	113645509	Other	IQCD	-39.672745	0.000341	0.046275
cg17601785	5	71475111	Other	MAP1B	29.9177314	0.000341	0.046286
cg20511815	7	5537036	N_Shelf	MIR589	-48.707799	0.000341	0.046289
cg06126593	16	20910405	N_Shore	LYRM1	48.8221936	0.000342	0.046348
cg14700104	5	139527250	S_Shore	NA	75.9113887	0.000342	0.046348
cg21964800	11	63272764	Other	LGALS12	-27.26189	0.000342	0.046348
cg20873136	2	129037710	Other	HS6ST1	-46.578766	0.000343	0.046403
cg05146756	9	21558871	N_Shore	MIR31HG	-29.755191	0.000344	0.046478
cg09823760	12	131484594	Other	GPR133	55.103042	0.000344	0.046478
cg22210337	11	2322808	Other	C11orf21	-43.252913	0.000344	0.04648
cg25877009	8	142288517	Other	NA	-80.538841	0.000344	0.046484
cg02927747	18	60381593	N_Shore	PHLPP1	-31.344184	0.000344	0.046484
cg10710218	1	55012989	Other	ACOT11	-59.556267	0.000344	0.046484
cg14299883	12	80447038	Other	NA	72.975024	0.000345	0.046484
cg23586792	2	200423026	Other	NA	98.0735497	0.000345	0.046495
cg00040749	2	62556079	Other	NA	-57.943419	0.000345	0.046495
cg10370574	19	1840461	Other	REXO1	-39.927503	0.000345	0.046495
cg07007807	12	117176115	Island	RNFT2	1516.82699	0.000345	0.046495
cg20345915	10	121296042	Other	RGS10	-37.0803	0.000346	0.046495
cg13578303	19	49838698	N_Shelf	CD37	-53.417797	0.000346	0.046495

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg00787013	10	125665208	Other	NA	63.6101096	0.000346	0.046495
cg09130190	11	32115439	S_Shelf	RCN1	51.1453928	0.000346	0.046495
cg02395812	14	105955879	N_Shore	C14orf80	43.9471905	0.000346	0.046495
cg23537932	10	121172463	Other	GRK5	41.4580162	0.000346	0.046495
cg15549251	15	40426006	Other	NA	-73.06448	0.000347	0.046505
cg24754956	19	1729851	S_Shelf	NA	44.1379481	0.000347	0.046531
cg19874726	14	61114476	Island	SIX1	-29.596407	0.000348	0.046587
cg11100309	12	57637268	Island	NDUFA4L2	63.7877736	0.000348	0.046587
cg01389728	10	6620572	N_Shore	PRKCCQ	-19.129262	0.000348	0.046618
cg07897701	7	150549370	Other	AOC1	-58.525013	0.000349	0.046671
cg15155441	11	57005981	Other	APLNR	-83.201703	0.000349	0.046671
cg06147863	11	47400113	S_Shore	SPI1	-27.795857	0.000349	0.046671
cg11953516	2	27719501	S_Shore	GCKR	-45.131554	0.000349	0.046671
cg22180580	6	138867046	Other	NHSL1	37.3244528	0.000349	0.046671
cg04822278	12	125023878	S_Shore	NCOR2	21.0740734	0.000349	0.046671
cg05289022	2	98377864	Other	TMEM131	-78.995611	0.00035	0.046686
cg14533068	6	158507953	Island	SYNJ2	-66.809939	0.00035	0.046743
cg11854227	3	121714109	S_Shore	ILDR1	-39.058175	0.000351	0.04682
cg25727029	15	89482453	Other	NA	-54.037543	0.000351	0.04682
cg11370814	2	242927418	N_Shore	NA	-38.625085	0.000352	0.04682
cg25816696	2	239427974	Other	LOC151171	65.8368889	0.000352	0.04682
cg10421194	2	43133914	Other	NA	27.5976388	0.000352	0.04682
cg27520905	7	153999655	N_Shelf	DPP6	24.7601578	0.000353	0.04682
cg01209642	6	170581355	S_Shore	NA	-53.437004	0.000353	0.04682
cg14189441	10	30971547	Other	NA	40.9426582	0.000353	0.04682
cg12633817	7	1117479	N_Shelf	C7orf50	-32.771595	0.000353	0.04682
cg23081604	12	130824224	S_Shore	PIWIL1	44.231246	0.000353	0.04682
cg15034267	22	39106452	S_Shelf	GTPBP1	-52.456469	0.000353	0.04682
cg13600632	9	129169002	Other	NRON	43.182975	0.000353	0.04682
cg06596943	6	901264	Other	NA	25.5621663	0.000353	0.04682
cg13637552	11	1534712	N_Shelf	MOB2	-51.441794	0.000354	0.04682
cg09317128	4	56265301	S_Shelf	TMEM165	39.855735	0.000354	0.04682
cg15969901	6	36810478	S_Shore	CPNE5	-39.187927	0.000354	0.04682
cg23618218	12	51474138	N_Shelf	CSRNP2	41.5700023	0.000354	0.04682
cg13945880	5	171008055	Other	NA	55.4102467	0.000354	0.046842
cg17372408	8	143427750	N_Shore	TSNARE1	39.7800002	0.000354	0.046842
cg17319795	14	93170808	Other	LGMN	-54.340414	0.000355	0.046842
cg00486259	4	152096720	Other	SH3D19	27.8876109	0.000355	0.046842
cg04012600	1	109850126	Other	MYBPHL	-39.844577	0.000355	0.046868
cg15241074	2	12860614	S_Shore	TRIB2	42.0566105	0.000355	0.046904
cg08951051	16	4993543	Other	NA	44.7608815	0.000356	0.046904

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg00664697	16	80061290	Other	NA	-42.19572	0.000356	0.046907
cg23878494	11	63687937	S_Shore	RCOR2	46.4728131	0.000356	0.046926
cg14324675	6	31554848	Other	LST1	-61.75071	0.000356	0.046926
cg04121415	3	38325566	Other	NA	29.6869149	0.000357	0.046933
cg22844229	12	58013475	Island	SLC26A10	-34.72238	0.000357	0.046933
cg26312337	2	25170414	Other	DNAJC27	32.9204114	0.000357	0.046933
cg00732378	16	55021073	Other	NA	-44.934778	0.000357	0.046933
cg27078890	11	128457459	Other	ETS1	48.6147713	0.000357	0.046933
cg19408626	1	12189773	Other	TNFRSF8	-52.640751	0.000358	0.046936
cg23054840	10	45920485	N_Shelf	ALOX5	-32.741698	0.000358	0.046936
cg12871285	17	76713379	Other	CYTH1	25.9911412	0.000358	0.046936
cg20625523	2	64893849	Other	NA	-40.170015	0.000358	0.046991
cg01372366	11	48041783	Other	PTPRJ	-50.44146	0.000358	0.047
cg11028624	11	13983793	N_Shore	SPON1	-41.457738	0.000359	0.047029
cg20198611	6	33163689	S_Shelf	COL11A2	53.0169194	0.000359	0.047032
cg14443726	9	129468049	N_Shore	NA	153.299051	0.000359	0.047055
cg20594303	10	60680256	Other	NA	62.4977554	0.00036	0.047055
cg27554551	16	4421486	N_Shore	VASN	34.8264888	0.00036	0.047055
cg03716908	5	81149002	Other	NA	41.5016833	0.00036	0.047085
cg24962576	3	42745362	Other	HHATL	-70.407131	0.000361	0.047153
cg19214300	16	56709503	N_Shore	MT1IP	-41.389353	0.000362	0.047221
cg27350483	17	58822074	Other	BCAS3	36.1893776	0.000362	0.047221
cg27368523	2	113544348	Other	IL1A	-51.573912	0.000362	0.047221
cg01401037	3	185839955	Other	NA	33.3043933	0.000362	0.047221
cg19961151	5	68207879	Other	NA	30.0486602	0.000363	0.047221
cg06489606	17	80251697	S_Shore	NA	49.930947	0.000363	0.047221
cg01386185	3	15935423	Other	NA	47.0812754	0.000363	0.047221
cg03330678	17	75316233	Other		9-Sep 35.1844633	0.000363	0.047221
cg06898168	7	5447353	Other	TNRC18	41.1229438	0.000363	0.047221
cg22479403	5	151328842	Other	NA	35.2276986	0.000363	0.047221
cg16277944	5	169068404	S_Shelf	DOCK2	27.1953522	0.000364	0.047221
cg16903025	8	124549553	N_Shelf	FBXO32	45.2839424	0.000364	0.047221
cg24795614	2	44973115	Other	CAMKMT	-30.153948	0.000364	0.047221
cg06635832	5	154654216	Other	NA	-23.619585	0.000364	0.047221
cg17441062	11	88242604	S_Shore	GRM5-AS1	-34.262536	0.000364	0.047221
cg17518965	19	3178955	Island	S1PR4	-51.456365	0.000364	0.047284
cg20976581	17	34080240	Other	GAS2L2	70.7319153	0.000366	0.047314
cg02857726	3	149088388	Other	TM4SF1	-29.396926	0.000366	0.047314
cg05944877	16	24197863	Other	PRKCB	51.9167192	0.000366	0.047314
cg17973773	8	27695870	S_Shore	PBK	43.051031	0.000366	0.047314
cg22365240	2	105374995	Other	LOC284998	31.2252641	0.000366	0.047314

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg05590274	11	113262625	S_Shelf	ANKK1	-32.355671	0.000366	0.047314
cg03925411	3	35986831	Other	NA	-180.94827	0.000367	0.047314
cg16227748	2	232186992	Other	ARMC9	-29.063701	0.000367	0.047314
cg16974893	3	156799514	Other	LINC00880	62.1793269	0.000367	0.047314
cg02434051	19	54848878	Other	LILRA4	38.0559899	0.000368	0.047314
cg12808347	2	11622001	Island	NA	-54.945108	0.000368	0.047314
cg10809783	6	148784879	Other	SASH1	-65.585611	0.000368	0.047314
cg19618297	13	112760313	Island	NA	123.950126	0.000368	0.047314
cg12492496	19	18271859	Island	PIK3R2	34.1122526	0.000368	0.047314
cg08790487	5	179135308	Other	CANX	-46.708861	0.000368	0.047314
cg03980424	10	3526723	Other	NA	-22.413176	0.000368	0.047314
cg12947138	5	71475303	Other	MAP1B	24.1791819	0.000368	0.047314
cg27352123	5	92353980	Other	NA	56.3414061	0.000368	0.047314
cg16667251	2	54697181	Other	SPTBN1	-30.280847	0.000368	0.047314
cg19272266	8	38125865	N_Shore	PPAPDC1B	32.5554952	0.000368	0.047314
cg11580525	11	118022923	N_Shore	SCN4B	38.3088037	0.000369	0.047314
cg00447208	17	76126301	N_Shore	TMC8	-42.121021	0.000369	0.047314
cg06051662	X	153096786	S_Shore	PDZD4	26.6740666	0.000369	0.047314
cg03642503	17	76899257	S_Shore	LOC100653515	59.7355004	0.000369	0.047314
cg05245794	8	119884332	Other	NA	-78.263733	0.000369	0.047314
cg21060429	7	2280360	N_Shore	FTSJ2	-131.48715	0.000369	0.047314
cg13247398	11	46366840	N_Shore	DGKZ	-51.105433	0.000369	0.047314
cg11247497	4	183756392	Other	NA	-61.0069	0.00037	0.047314
cg00869668	17	1549012	S_Shore	SCARF1	-30.660704	0.00037	0.047314
cg22353096	2	100851666	Other	LOC150577	-24.715651	0.00037	0.047314
cg14311134	19	7414062	Other	NA	-35.093557	0.00037	0.047326
cg13599613	9	130524902	Other	SH2D3C	-16.499419	0.000371	0.047371
cg25736482	19	54677232	Other	TMC4	-41.981913	0.000371	0.047371
cg26037142	6	32097481	N_Shore	FKBPL	28.2292196	0.000371	0.047373
cg20033981	13	41590153	Other	ELF1	-29.650057	0.000371	0.0474
cg19980148	14	39639590	Island	TRAPPC6B	946.863625	0.000372	0.047418
cg23386659	19	840950	N_Shelf	PRTN3	-50.035297	0.000372	0.047432
cg23722096	7	127347748	Other	SND1	29.6035844	0.000372	0.047434
cg17178748	13	43594122	N_Shelf	DNAJC15	38.0565985	0.000373	0.047444
cg27269488	3	191048411	S_Shore	UTS2B	34.2309172	0.000373	0.047444
cg08087655	11	122073541	Other	MIR100HG	42.8075137	0.000373	0.047444
cg14478589	9	124086862	Other	GSN	-52.575112	0.000373	0.047444
cg14549256	4	2627142	Other	FAM193A	32.6250331	0.000373	0.047469
cg24947456	12	57441432	Other	MYO1A	-48.426251	0.000373	0.047469
cg21133433	4	169991796	Other	NA	30.4205148	0.000374	0.047469
cg07734926	6	28832358	S_Shore	LOC401242	34.7198305	0.000374	0.047469

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg26583078	4	186877778	Other	SORBS2	25.7771471	0.000374	0.047492
cg07620928	10	92689909	Other	NA	34.6272217	0.000374	0.047516
cg04812726	5	171875049	Other	SH3PXD2B	45.5790514	0.000375	0.047524
cg18784903	7	1337353	Island	NA	29.4444291	0.000375	0.047533
cg14017402	2	86225602	Other	NA	31.4577086	0.000375	0.047535
cg20545409	11	87423941	Other	NA	-32.328807	0.000376	0.04757
cg21773297	8	2049910	S_Shelf	MYOM2	-25.194834	0.000376	0.047584
cg17460386	1	207095668	Other	FAIM3	-36.021142	0.000376	0.047584
cg01396774	2	218299024	Other	DIRC3	152.464196	0.000376	0.047584
cg12159992	12	102059490	Other	MYBPC1	-24.259264	0.000377	0.047589
cg09262974	15	38478762	Other	NA	-90.889178	0.000377	0.047589
cg02307664	2	134586281	Other	NA	50.2717926	0.000377	0.047589
cg02625536	20	47749901	Other	STAU1	72.6903141	0.000377	0.047589
cg11460364	2	162931397	S_Shore	DPP4	-36.413998	0.000377	0.047589
cg10516359	11	45827763	S_Shore	SLC35C1	57.5693477	0.000377	0.047589
cg17243643	12	56114269	S_Shelf	RDH5	22.8545651	0.000378	0.047589
cg19251656	1	100000372	Other	NA	-20.952064	0.000378	0.047589
cg08595656	4	17723733	Other	FAM184B	54.6924246	0.000378	0.047603
cg23976723	4	185872645	N_Shore	NA	-166.8008	0.000378	0.04763
cg18069290	12	58013539	Island	SLC26A10	-38.734946	0.000379	0.04763
cg04514998	11	108680123	Other	DDX10	-41.383954	0.000379	0.04763
cg19256813	12	117627286	N_Shore	FBXO21	33.9885769	0.000379	0.04763
cg15616915	2	219266163	S_Shore	MIR26B	41.0152825	0.000379	0.047679
cg14163484	2	97359926	Other	FER1L5	-63.296631	0.00038	0.047679
cg18786643	1	117129532	Other	IGSF3	-40.24349	0.00038	0.047679
cg25746394	19	45450501	Other	APOC2	-70.532646	0.00038	0.047679
cg20901787	17	79936477	S_Shore	ASPSCR1	57.9948879	0.00038	0.047693
cg02768671	6	169470822	Other	NA	45.7941299	0.00038	0.047693
cg13925432	9	110398260	N_Shore	NA	-48.74684	0.000381	0.047693
cg15922176	10	134096798	S_Shore	STK32C	45.0431868	0.000381	0.047693
cg16371538	1	37940813	S_Shore	ZC3H12A	60.329592	0.000381	0.047693
cg09218250	3	9943848	Other	IL17RE	-43.137161	0.000381	0.047728
cg25550753	2	47205281	Other	TTC7A	-41.954437	0.000382	0.047811
cg26466234	10	124264224	Other	HTRA1	40.108894	0.000383	0.047847
cg18824446	15	89154058	Other	MIR7-2	-23.067326	0.000383	0.047847
cg15234197	11	68924956	Island	NA	33.9944597	0.000383	0.047887
cg22631555	10	23216637	Other	ARMC3	89.7039299	0.000384	0.047948
cg19005210	6	41168960	Other	TREML2	-59.779698	0.000384	0.047957
cg26723624	4	53700940	Other	NA	-119.97408	0.000384	0.047978
cg27391982	13	76957970	Other	NA	17.0466777	0.000385	0.047978
cg13573928	4	169754534	Island	PALLD	38.2304332	0.000385	0.04799

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg05947761	7	1734325	Other	NA	69.7833508	0.000385	0.04799
cg26199631	2	239924551	Other	NA	31.471544	0.000385	0.04799
cg17554875	5	179520998	S_Shelf	NA	-43.262716	0.000385	0.04799
cg02016178	16	3628416	Other	NLRC3	-40.922401	0.000386	0.048018
cg20444218	11	73024037	S_Shelf	ARHGEF17	58.299203	0.000386	0.048049
cg25666403	22	30662994	Other	OSM	-39.799787	0.000387	0.048049
cg27534957	2	174265733	Other	NA	-27.104325	0.000387	0.048049
cg02878966	X	24692176	Other	PCYT1B	-51.093559	0.000387	0.048049
cg09356916	4	23791473	Other	NA	25.72383	0.000387	0.048049
cg06395232	12	15105654	Other	ARHGDI1B	-43.780127	0.000387	0.048049
cg21484586	19	35531859	Island	HPN	-46.616651	0.000388	0.048111
cg09936919	2	19249137	Other	NA	47.6655388	0.000388	0.048145
cg03939352	1	162346594	Other	C1orf111	-103.05738	0.000389	0.048171
cg24088042	3	126327440	Other	TXNRD3NB	38.8885567	0.000389	0.048171
cg17976873	14	23352295	N_Shelf	REM2	59.8086989	0.00039	0.04823
cg02818170	19	3336941	Other	NA	36.7932406	0.00039	0.04823
cg14426428	6	106961936	S_Shore	AIM1	-26.688107	0.00039	0.04823
cg18997124	6	31740268	Other	VWA7	-38.077656	0.000391	0.048353
cg03389133	22	37608611	Other	SSTR3	56.3687499	0.000391	0.048353
cg00244001	10	126336805	Other	FAM53B	-64.642988	0.000391	0.048353
cg20866090	3	188537167	Other	LPP	-62.832658	0.000392	0.048353
cg22801799	8	134072526	Other	SLA	-53.661692	0.000392	0.048353
cg21184454	X	19765879	Other	SH3KBP1	-46.404903	0.000392	0.048353
cg10371643	13	109807836	Other	MYO16	-34.109047	0.000392	0.048353
cg14260643	7	99277394	Other	CYP3A5	28.6726088	0.000392	0.048353
cg07646714	11	34378884	Island	ABTB2	-920.2845	0.000392	0.048353
cg00852595	12	99548437	Other	ANKS1B	26.6922636	0.000393	0.048353
cg03333377	11	93277841	S_Shore	SMCO4	-18.992271	0.000393	0.048353
cg19351638	X	153170390	Other	AVPR2	-69.682948	0.000393	0.048377
cg26536240	16	89509760	Other	ANKRD11	26.320581	0.000393	0.048389
cg14070162	17	40575582	S_Shore	PTRF	90.0032455	0.000394	0.048402
cg19175386	12	115134496	N_Shore	NA	-35.332195	0.000394	0.048402
cg02543462	2	113885116	Other	IL1RN	-52.439977	0.000394	0.048402
cg15049549	3	48732213	Other	IP6K2	24.132114	0.000394	0.048437
cg08590069	8	101118899	S_Shore	RGS22	-40.495749	0.000395	0.048437
cg24475517	2	118737667	Other	CCDC93	-56.767744	0.000395	0.048437
cg02367723	1	46378857	Other	MAST2	29.1779662	0.000395	0.048437
cg24290574	3	148583152	Other	CPA3	-29.546607	0.000395	0.048437
cg21946299	3	12329166	Island	PPARG	101.956042	0.000395	0.048437
cg05007997	2	219246985	Other	SLC11A1	-55.427565	0.000395	0.048437
cg02124912	1	202091933	Other	GPR37L1	33.2717274	0.000395	0.048437

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg16339434	11	2286788	N_Shelf	NA	-23.731147	0.000396	0.048466
cg21902474	5	150396984	N_Shelf	GPX3	-34.100872	0.000396	0.048466
cg17875922	6	37045823	Other	NA	53.3497343	0.000396	0.048496
cg04886849	10	118997146	N_Shelf	SLC18A2	-47.277532	0.000397	0.048579
cg09472600	1	183537770	Other	NCF2	-15.934396	0.000398	0.048586
cg07053114	10	129794994	Other	PTPRE	29.9430397	0.000398	0.048595
cg15426626	12	132984261	Island	NA	47.1545086	0.000398	0.048606
cg10493436	1	161168957	N_Shelf	ADAMTS4	27.8414568	0.000398	0.048606
cg08882904	19	13233291	S_Shelf	NACC1	51.3155393	0.000398	0.048606
cg04536829	3	127771995	S_Shore	SEC61A1	107.502096	0.000399	0.048622
cg19747945	6	42946146	N_Shore	PEX6	30.9735627	0.000399	0.048627
cg04522671	5	139144055	Island	NA	-73.040963	0.000399	0.048627
cg03779374	3	114343825	Other	ZBTB20	-32.01313	0.000399	0.048629
cg06961205	6	6623143	Other	LY86-AS1	34.0033089	0.0004	0.048629
cg19089617	2	42154188	Other	NA	-40.36883	0.0004	0.048629
cg23262488	2	112468472	Other	NA	-42.812957	0.0004	0.048643
cg09624923	10	33244211	N_Shelf	ITGB1	28.0553565	0.0004	0.04866
cg13017813	14	77491023	N_Shore	IRF2BPL	26.8604441	0.000401	0.04866
cg18229071	19	2695245	Other	GNG7	-82.175221	0.000401	0.04866
cg14630206	11	77121864	N_Shore	PAK1	-41.235082	0.000401	0.048664
cg18908499	1	247712237	Other	GCSAML	-36.912497	0.000401	0.048664
cg10927968	11	1807333	Other	NA	-41.708789	0.000401	0.048684
cg23840053	4	15940541	Other	FGFBP1	-30.141508	0.000402	0.048684
cg00694357	1	154976647	S_Shore	ZBTB7B	406.153838	0.000402	0.048684
cg17311022	3	119379792	Other	POPDC2	30.2419837	0.000402	0.048684
cg05626128	1	19251115	Other	IFFO2	-89.285032	0.000402	0.048694
cg15985132	11	130642799	Other	NA	16.6969043	0.000403	0.048714
cg05034363	7	75443193	Other	CCL24	-41.878802	0.000403	0.048714
cg02358862	16	30197211	S_Shore	CORO1A	-46.817154	0.000403	0.048789
cg07691897	11	112000518	Other	NA	-35.992953	0.000404	0.048806
cg17232217	4	1203104	Island	SPON2	45.3659112	0.000404	0.048811
cg23068939	1	112016586	Other	C1orf162	-18.000005	0.000404	0.048816
cg10082662	11	47282094	Other	NR1H3	-74.634865	0.000405	0.048826
cg13615971	15	92392821	N_Shelf	SLCO3A1	-72.321061	0.000405	0.048826
cg24134261	2	33661362	Other	RASGRP3	-24.373198	0.000405	0.048841
cg01747518	14	103994927	N_Shore	TRMT61A	31.1547402	0.000405	0.048841
cg16904686	1	47133294	N_Shore	ATPAF1	47.4559773	0.000405	0.048842
cg08450965	21	46677779	Island	NA	69.9166895	0.000405	0.048842
cg03593014	10	98977821	Other	ARHGAP19-SLIT1	-23.733957	0.000406	0.048867
cg10987682	2	23509827	Other	NA	38.9098375	0.000406	0.048908
cg11525210	5	149445234	Other	CSF1R	-63.711638	0.000407	0.048932

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg09715059	6	32223336	Other	NA	70.7874092	0.000407	0.048935
cg17550495	4	39364570	N_Shelf	RFC1	27.553313	0.000407	0.048952
cg05206657	15	70328301	S_Shore	NA	-57.525448	0.000408	0.049009
cg13987606	1	160002698	S_Shore	PIGM	22.2661776	0.000408	0.049009
cg01790438	5	10332117	N_Shore	NA	42.4002706	0.000409	0.049011
cg01269718	18	13869025	Island	NA	240.156582	0.000409	0.049011
cg13505631	9	127018840	N_Shore	NEK6	-37.407939	0.000409	0.049011
cg25343227	22	42353589	N_Shore	LINC00634	49.6488542	0.000409	0.049011
cg25076039	5	169128937	Other	DOCK2	32.4707997	0.000409	0.049011
cg26058884	6	30579440	Other	PPP1R10	23.2516452	0.000409	0.049011
cg21720385	19	4455239	N_Shelf	UBXN6	38.8126276	0.00041	0.049011
cg16399624	10	134553188	N_Shore	INPP5A	-68.359643	0.00041	0.049011
cg23687971	20	32262772	N_Shore	NECAB3	131.238479	0.00041	0.049011
cg26246740	10	49893026	Other	WDFY4	-61.713045	0.00041	0.049011
cg02179700	10	3336162	Other	NA	27.1818088	0.00041	0.049011
cg18558108	8	131439096	Other	ASAP1	-84.154505	0.00041	0.049011
cg10905593	10	102027479	Island	CWF19L1	449.129261	0.000411	0.049011
cg23965459	14	104647094	S_Shore	KIF26A	34.0845115	0.000411	0.049011
cg20714328	5	79331850	S_Shore	THBS4	-43.809334	0.000411	0.049011
cg15890075	17	18011923	Other	MYO15A	67.2733956	0.000411	0.049011
cg14916108	12	2027993	Other	CACNA2D4	-58.441764	0.000411	0.049011
cg07702311	11	128646953	Other	FLI1	29.1008104	0.000411	0.049011
cg15083578	3	44450272	Other	TCAIM	-67.173081	0.000412	0.049011
cg01085165	16	4426401	Other	VASN	33.1493033	0.000412	0.049011
cg10964627	3	65985404	Other	MAGI1	-42.399567	0.000412	0.049011
cg09288273	5	156886816	N_Shore	NIPAL4	-46.855315	0.000412	0.049011
cg03044513	11	116706153	N_Shore	APOA1	-25.296207	0.000412	0.049011
cg09354037	6	32813531	S_Shore	PSMB8	-43.054082	0.000413	0.049011
cg10283036	12	111853088	N_Shelf	SH2B3	-74.455265	0.000413	0.049011
cg02713832	11	60772559	N_Shelf	CD6	25.1581413	0.000413	0.049011
cg27438980	15	99195143	S_Shore	IGF1R	20.0007364	0.000413	0.049011
cg00861207	4	8098270	N_Shore	ABLIM2	-67.935578	0.000413	0.049011
cg01912298	17	4872499	S_Shore	SPAG7	35.0733017	0.000414	0.049011
cg15135286	2	33359281	Other	LTBP1	25.015047	0.000414	0.049011
cg17653203	4	2933715	Island	MFSD10	-23.90398	0.000414	0.049011
cg16007497	4	74713356	Other	NA	-41.226429	0.000414	0.049011
cg09530438	10	106095350	N_Shelf	ITPRIP	-72.711707	0.000414	0.049011
cg23304605	14	91866373	Other	CCDC88C	-39.573033	0.000414	0.049011
cg01256232	14	40337190	Other	NA	25.9648522	0.000414	0.049011
cg05825700	8	99440522	S_Shore	KCNS2	-89.462063	0.000414	0.049011
cg03298716	6	168196351	N_Shore	C6orf123	-55.079623	0.000415	0.049016

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg22066894	11	126581972	Other	KIRREL3	-26.741755	0.000415	0.04905
cg14171527	21	44473840	Island	CBS	-48.27873	0.000416	0.0491
cg14301190	16	31159704	Island	PRSS36	49.0637037	0.000416	0.049167
cg23225508	17	62500377	N_Shore	DDX5	35.8868423	0.000417	0.049186
cg14729344	10	121129753	Other	GRK5	-31.823492	0.000417	0.049205
cg04926904	10	14529831	Other	NA	42.2350631	0.000418	0.049205
cg02792168	10	101281924	Island	NA	48.2987568	0.000418	0.049205
cg11077392	11	19719446	Other	NAV2	47.6794245	0.000418	0.049205
cg09470638	19	15121509	N_Shore	CCDC105	37.9898932	0.000418	0.049205
cg17499826	19	46284986	S_Shore	DMPK	44.71164	0.000418	0.049205
cg02804819	19	49238364	N_Shore	RASIP1	40.2480263	0.000418	0.049205
cg08721931	2	110874344	S_Shore	MALL	-46.004088	0.000419	0.049205
cg14164816	1	91483823	N_Shelf	ZNF644	-24.502198	0.000419	0.049205
cg17644856	2	10687962	Other	NA	-41.733526	0.000419	0.049205
cg18397730	6	52439185	N_Shelf	TRAM2	36.9071048	0.000419	0.049205
cg02950701	10	35656925	Other	CCNY	32.7743637	0.000419	0.049205
cg12424867	1	19752812	Other	CAPZB	38.2588552	0.000419	0.049211
cg20156545	21	28335020	N_Shelf	ADAMTS5	26.5440795	0.000419	0.049226
cg27250037	20	35471692	S_Shelf	SOGA1	-38.314166	0.00042	0.049247
cg21236860	7	66766855	N_Shore	PMS2P4	24.0121714	0.00042	0.049247
cg23406509	17	31479452	Other	ASIC2	-52.388555	0.00042	0.049247
cg23943268	13	33589621	N_Shore	KL	-30.81731	0.00042	0.049247
cg12423658	13	111318555	Other	CARS2	-66.460083	0.000421	0.049247
cg14288403	1	28503368	Other	PTAFR	-48.928607	0.000421	0.049265
cg23035241	5	142594147	Other	ARHGAP26	-79.554943	0.000421	0.049279
cg02431531	16	59244939	Other	NA	27.6667615	0.000422	0.049313
cg14671926	6	169930772	Other	WDR27	43.0718287	0.000422	0.049313
cg17056607	17	72709096	Other	CD300LF	-45.310623	0.000422	0.049313
cg11182257	10	118652981	Other	KIAA1598	-28.510704	0.000422	0.049313
cg18750833	2	71358451	S_Shore	MPHOSPH10	24.8769893	0.000423	0.049313
cg10111629	1	113067124	Other	ST7L	36.9459246	0.000423	0.049313
cg27157050	22	42563204	Other	TCF20	89.3605189	0.000424	0.049313
cg18336453	6	43082296	Other	PTK7	48.7737553	0.000424	0.049313
cg14622443	17	60886038	S_Shore	10-Mar	41.7266302	0.000424	0.049313
cg20525037	3	64203257	Other	PRICKLE2	82.842968	0.000424	0.049313
cg16671238	13	20987145	N_Shore	CRYL1	-61.584221	0.000424	0.049313
cg01430385	10	1033349	N_Shore	GTPBP4	34.219705	0.000425	0.049313
cg14654385	11	63973006	N_Shore	FERMT3	-66.977713	0.000425	0.049313
cg16346032	1	180100912	Other	NA	-26.04585	0.000425	0.049313
cg11147471	12	125087686	Other	NA	-36.860247	0.000425	0.049313
cg03732056	8	21771059	S_Shore	DOK2	-21.581031	0.000425	0.049313

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg03763077	2	74231297	S_Shore	NA	31.5508973	0.000425	0.049313
cg06096446	6	158744008	Other	TULP4	-132.0494	0.000425	0.049313
cg19797956	4	879432	S_Shore	GAK	98.1470855	0.000426	0.049313
cg06015525	12	57872123	S_Shore	ARHGAP9	-51.061895	0.000426	0.049313
cg27097846	12	53443485	S_Shore	TENC1	46.8130332	0.000426	0.049313
cg13721589	17	17716006	Island	MIR33B	25.245529	0.000426	0.049313
cg07873154	6	30122544	Other	TRIM10	26.9739037	0.000426	0.049313
cg12544957	13	60587190	Other	DIAPH3	268.484112	0.000426	0.049313
cg11812748	1	246733057	S_Shelf	CNST	-27.625814	0.000426	0.049313
cg23275958	17	75503249	Other	NA	-58.768032	0.000426	0.049313
cg10098221	4	53523482	N_Shore	USP46	25.9947644	0.000426	0.049328
cg14520957	1	154179856	Other	C1orf189	95.5195843	0.000427	0.049328
cg13611006	17	45983023	Other	SP2	39.0534024	0.000427	0.049328
cg00496026	10	102766610	Island	LZTS2	63.4628051	0.000427	0.049333
cg15615645	10	104543040	Other	WBP1L	33.6327253	0.000427	0.049352
cg19251564	6	166418922	N_Shelf	NA	33.170832	0.000428	0.049389
cg20124551	11	120439522	S_Shelf	NA	-49.441096	0.000428	0.049389
cg25064052	4	166216151	Other	KLHL2	-32.362444	0.000428	0.049389
cg09118048	7	2048663	S_Shelf	MAD1L1	-95.624878	0.000428	0.049389
cg12655251	1	53992565	Other	GLIS1	73.0411472	0.000428	0.049389
cg15568628	1	59529453	Other	NA	-21.328721	0.000429	0.049389
cg25924688	15	72977851	N_Shore	HIGD2B	19.9390909	0.000429	0.049389
cg25093045	4	5990638	Other	NA	33.6502895	0.000429	0.049389
cg20144984	1	38604476	Other	NA	32.221244	0.00043	0.049389
cg12397205	11	1244002	N_Shelf	MUC5B	38.6951169	0.00043	0.049389
cg27138390	X	147279853	Other	NA	48.3252579	0.00043	0.049389
cg10085474	4	1221935	Island	CTBP1	-49.390527	0.00043	0.049389
cg00336149	3	53700195	Other	CACNA1D	-31.671099	0.00043	0.049389
cg11961813	17	40995546	Other	AOC2	151.144209	0.000431	0.049389
cg13327134	12	53618407	S_Shelf	RARG	38.7088121	0.000431	0.049389
cg12687767	20	19870109	Other	RIN2	49.1291153	0.000431	0.049389
cg25291551	11	46402666	Island	MDK	2287.80731	0.000431	0.049389
cg01132064	11	46382562	Other	DGKZ	-35.41857	0.000431	0.049389
cg11707445	1	156889964	N_Shore	LRRC71	74.384639	0.000431	0.049389
cg07062388	6	70507787	S_Shore	LMBRD1	58.9328226	0.000431	0.049389
cg18854666	2	219247055	Other	SLC11A1	-51.872181	0.000431	0.049389
cg00748218	11	19372553	Other	NAV2	43.335719	0.000432	0.049389
cg26696162	6	151709522	N_Shore	ZBTB2	-64.442789	0.000432	0.049389
cg26683005	19	48752990	Other	CARD8	-33.569298	0.000432	0.049389
cg19476186	20	3869959	Island	PANK2	1266.57025	0.000433	0.049389
cg18397726	14	93395464	Other	CHGA	-96.052516	0.000433	0.049389

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg18797590	4	15480643	Other	CC2D2A	23.3492866	0.000433	0.049389
cg27052183	11	66411986	S_Shore	RBM4	37.1663748	0.000433	0.049389
cg11953913	5	139562873	Other	CYSTM1	-42.827189	0.000433	0.049389
cg18066206	22	46459890	S_Shore	NA	22.0781108	0.000433	0.049389
cg14647287	4	6927183	S_Shore	TBC1D14	-56.310867	0.000434	0.049389
cg11219614	8	49984776	Other	C8orf22	30.7204216	0.000434	0.049389
cg12086464	4	2814064	Other	SH3BP2	-18.648676	0.000434	0.049389
cg24644436	10	135202906	N_Shore	MTG1	-27.862546	0.000434	0.049389
cg17342247	17	3540594	S_Shore	CTNS	90.3099261	0.000434	0.049389
cg26892635	16	3253043	Other	OR1F1	109.832215	0.000434	0.049389
cg15202213	11	641042	S_Shore	DRD4	-40.901526	0.000434	0.049389
cg13830300	17	41822900	Other	NA	-18.757426	0.000434	0.049389
cg13577072	11	2715286	Other	KCNQ1OT1	67.2862012	0.000434	0.049389
cg08698854	7	134575306	Other	CALD1	16.2788283	0.000435	0.049389
cg22791932	16	88537374	Island	MIR5189	-80.493705	0.000435	0.049389
cg19731612	5	176559334	Island	NSD1	83.8710088	0.000435	0.049389
cg06881695	6	30168773	Other	TRIM26	-33.926928	0.000435	0.049396
cg12193327	2	31454631	N_Shelf	EHD3	-37.284339	0.000435	0.049396
cg22696167	15	96864283	N_Shore	NR2F2	-45.517368	0.000436	0.049396
cg15648896	15	39542877	Other	C15orf54	-34.26585	0.000436	0.049396
cg04735908	14	23538430	Other	ACIN1	293.855053	0.000436	0.049396
cg06314111	12	58119915	Island	AGAP2-AS1	42.2394398	0.000437	0.049396
cg01292625	10	88157172	N_Shelf	NA	-81.644677	0.000437	0.049396
cg19856273	1	46668472	N_Shore	LURAP1	26.423156	0.000437	0.049396
cg01873886	14	54419825	N_Shore	BMP4	127.27745	0.000437	0.049396
cg17271561	19	52839334	N_Shore	ZNF610	313.664897	0.000437	0.049396
cg18418655	X	70331557	Other	IL2RG	-46.590351	0.000438	0.049396
cg26959945	7	20233217	Other	MACC1	-17.888543	0.000438	0.049396
cg10864791	13	22178445	Island	MICU2	411.610504	0.000438	0.049396
cg05293299	3	29374128	Other	RBMS3	21.0781102	0.000438	0.049396
cg04764597	10	63510947	Other	C10orf107	-63.949364	0.000438	0.049396
cg25745746	1	20617452	Other	VWA5B1	-40.657994	0.000438	0.049396
cg03032798	2	221298903	Other	NA	-38.061816	0.000439	0.049396
cg07187855	6	30854161	S_Shore	DDR1	43.8641634	0.000439	0.049396
cg14884929	17	46657656	N_Shore	MIR10A	-37.350654	0.000439	0.049396
cg25649895	17	48356195	Other	TMEM92	-63.931542	0.000439	0.049396
cg23929682	11	2321842	Other	C11orf21	-41.33746	0.000439	0.049396
cg05519002	11	8104458	S_Shore	TUB	41.8467496	0.000439	0.049396
cg20305578	8	1908301	Other	NA	-39.747102	0.000439	0.049396
cg05608790	7	69427388	Other	AUTS2	-38.279833	0.00044	0.049424
cg01122304	4	2845576	Island	ADD1	659.817799	0.000441	0.049424

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Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg07685357	11	121971954	Other	MIR125B1	29.923283	0.000441	0.049424
cg02086820	16	88698611	N_Shore	NA	-91.511924	0.000441	0.049424
cg24159636	6	18043467	Other	NA	33.3827519	0.000441	0.049424
cg19755003	22	46489736	Other	MIR3619	40.3296017	0.000441	0.049424
cg23729881	3	13057184	Other	IQSEC1	-34.629576	0.000441	0.049424
cg05894801	6	155850469	Other	NA	-17.691393	0.000441	0.049424
cg26250461	5	19734126	Other	CDH18	76.6763664	0.000441	0.049424
cg10782218	17	61518489	S_Shelf	CYB561	-55.298291	0.000441	0.049424
cg23965588	11	71699167	Other	RNF121	25.9553177	0.000441	0.049424
cg04071967	17	53511321	Other	NA	-32.215793	0.000442	0.049424
cg14517126	15	41923323	Other	NA	-38.967872	0.000442	0.049424
cg07099073	6	44593284	Other	NA	46.3458449	0.000442	0.049456
cg04468671	12	132337407	S_Shelf	NA	-56.807693	0.000442	0.049456
cg02919122	3	112109797	Other	NA	135.470625	0.000443	0.049456
cg04561571	12	93834146	N_Shore	UBE2N	36.0293313	0.000443	0.049456
cg11599981	19	6475902	Island	DENND1C	43.9405412	0.000443	0.049461
cg00593773	18	77336201	Island	NA	19.3408829	0.000444	0.049515
cg19984681	3	64479957	Other	NA	-45.421572	0.000444	0.049515
cg03306368	6	99396091	S_Shore	FBXL4	72.1068436	0.000444	0.049515
cg25113360	11	120530355	Other	GRIK4	-38.451794	0.000444	0.049515
cg23000806	8	48854968	Other	PRKDC	19.8134686	0.000444	0.049515
cg02271790	6	10381196	N_Shore	NA	-21.764427	0.000445	0.049519
cg14596589	5	1107148	N_Shore	SLC12A7	-74.855242	0.000445	0.049519
cg20759486	6	30951225	Other	MUC21	-65.162216	0.000445	0.04952
cg05612839	16	85768907	Other	C16orf74	-49.602394	0.000445	0.04952
cg17398233	2	136876887	Island	CXCR4	1596.16044	0.000445	0.04952
cg03569637	12	47609357	Other	PCED1B	-45.275736	0.000445	0.04952
cg08275633	1	11751631	Island	MAD2L2	281.755706	0.000446	0.04952
cg03437770	16	12442738	Other	SNX29	-41.704234	0.000446	0.04952
cg03872934	6	33151135	Other	COL11A2	-28.63752	0.000446	0.049539
cg03485217	4	10686300	Other	CLNK	-45.259411	0.000446	0.049539
cg12103569	12	132258560	Other	SFSWAP	-42.090108	0.000447	0.049567
cg25488990	12	65668614	N_Shelf	MSRB3	-44.911506	0.000447	0.049609
cg19339179	4	113324678	Other	ALPK1	35.8923477	0.000447	0.049609
cg27091343	6	30130226	Other	TRIM15	-37.846724	0.000447	0.049609
cg20343063	11	57089744	N_Shore	TNKS1BP1	21.4068712	0.000448	0.049624
cg25110757	14	95065642	Other	NA	70.9521325	0.000448	0.049624
cg24509919	1	168230886	Other	NA	36.7501656	0.000448	0.049624
cg04561731	1	54869371	N_Shore	SSBP3	37.06632	0.000449	0.049645
cg00907204	7	92461971	N_Shore	CDK6	79.9469127	0.000449	0.049645
cg10570158	11	19546133	Other	NAV2-AS4	24.571275	0.000449	0.049652

Supplemental Table 1. 2,573 BMI-Associated Methylation Sites in the Normal Breast Study, adjusting for age, race, and alcohol use

Probe	CHR	MAPINFO	CPG Location*	Gene	Coefficient	p-value	q-value
cg26525025	12	52521183	Other	NA	-37.043322	0.000449	0.049685
cg24144893	1	45480507	S_Shelf	UROD	127.13542	0.00045	0.049717
cg26279216	10	131506261	Other	MGMT	20.2308977	0.00045	0.04975
cg19714332	13	80058898	S_Shelf	NDFIP2-AS1	-36.465465	0.000451	0.049764
cg11264392	19	15564092	Island	WIZ	59.6801633	0.000451	0.049789
cg02228160	5	143192067	Other	HMHB1	-32.678078	0.000452	0.049789
cg00002426	3	57743543	S_Shore	SLMAP	22.9748243	0.000452	0.049789
cg18493214	6	17764205	Other	KIF13A	-63.87837	0.000452	0.049789
cg23176340	15	89154196	Other	MIR7-2	-21.257253	0.000452	0.049789
cg04388657	9	127623377	N_Shore	RPL35	24.0190662	0.000452	0.049789
cg02780017	11	64981227	Other	SLC22A20	-40.642036	0.000453	0.049789
cg18935453	11	68167030	Other	LRP5	33.0344303	0.000453	0.049789
cg08882341	6	166470330	Other	NA	25.7153104	0.000453	0.049789
cg05935800	1	226023590	Other	EPHX1	35.3940881	0.000453	0.049789
cg11648522	1	15272238	Other	KAZN	40.8080212	0.000454	0.049789
cg25858160	20	55499436	N_Shore	NA	-47.673483	0.000454	0.049789
cg04601383	19	6713459	S_Shelf	C3	-88.46441	0.000454	0.049789
cg17753974	1	201622519	S_Shelf	NAV1	-35.248181	0.000454	0.049789
cg13397898	9	133768931	Other	QRFP	-29.180027	0.000454	0.049789
cg15220969	21	44819112	Island	NA	-48.489815	0.000454	0.049789
cg08870914	17	15281288	Other	NA	22.3819412	0.000454	0.049789
cg08755743	3	128205418	N_Shore	GATA2	54.9577358	0.000454	0.049789
cg05497216	16	89408076	N_Shore	ANKRD11	58.1218425	0.000454	0.049789
cg13092738	8	124498970	Other	NA	52.208202	0.000455	0.049789
cg13914531	7	128579876	S_Shore	IRF5	-46.914708	0.000455	0.049789
cg12706938	19	1566839	Island	MEX3D	34.1370386	0.000455	0.049789
cg01206970	19	49621187	N_Shore	C19orf73	-66.153541	0.000455	0.049789
cg14519356	7	83097669	Other	SEMA3E	-52.499948	0.000455	0.049789
cg21814870	4	62383240	Island	LPHN3	-37.126623	0.000456	0.04981
cg23595304	11	46879516	Other	LRP4-AS1	-32.291251	0.000456	0.04981
cg12166018	15	72564196	N_Shore	PARP6	41.0268861	0.000456	0.04981
cg13745692	3	60065489	Other	FHIT	38.4541735	0.000456	0.04981
cg02773868	6	30522774	N_Shore	PRR3	64.896738	0.000457	0.049867
cg08575819	6	31740291	Other	VWA7	-48.851039	0.000457	0.049878
cg24709951	17	73033009	S_Shore	NA	-17.921248	0.000457	0.049878
cg08133755	11	19792080	Other	NAV2	31.3386569	0.000457	0.049878

\*N\_Shore = North shore; N\_Shelf = North shelf; S\_Shore = South shore; S\_Shelf = South shelf; Other = Not in or near a CpG Island