

**Supplementary Table 7. Differentially methylated probes in FP versus FN tumors**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08924374	0.741	0.101	0.640	4e-29	NA	Hypermethylated in FP vs FN
cg15033036	0.822	0.088	0.734	1e-27	NA	Hypermethylated in FP vs FN
cg13500797	0.791	0.067	0.724	1e-26	NA	Hypermethylated in FP vs FN
cg23155911	0.716	0.166	0.550	4e-24	NA	Hypermethylated in FP vs FN
cg06918474	0.721	0.076	0.645	2e-23	NA	Hypermethylated in FP vs FN
cg05730150	0.480	0.095	0.385	6e-22	NA	Hypermethylated in FP vs FN
cg25568066	0.694	0.123	0.571	7e-20	NA	Hypermethylated in FP vs FN
cg17333042	0.686	0.195	0.491	6e-19	NA	Hypermethylated in FP vs FN
cg02500231	0.827	0.236	0.591	2e-18	NA	Hypermethylated in FP vs FN
cg20161791	0.728	0.116	0.612	1e-17	LFNG	Hypermethylated in FP vs FN
cg08710597	0.728	0.205	0.522	2e-17	NA	Hypermethylated in FP vs FN
cg13680188	0.756	0.144	0.611	2e-17	GATA4	Hypermethylated in FP vs FN
cg23421128	0.829	0.286	0.543	6e-17	NA	Hypermethylated in FP vs FN
cg16795466	0.751	0.128	0.623	8e-17	GATA4	Hypermethylated in FP vs FN
cg16589299	0.718	0.096	0.622	2e-16	NA	Hypermethylated in FP vs FN
cg05634149	0.750	0.119	0.632	2e-16	NA	Hypermethylated in FP vs FN
cg21032292	0.769	0.113	0.655	2e-16	NA	Hypermethylated in FP vs FN
cg09098624	0.723	0.138	0.585	3e-16	NA	Hypermethylated in FP vs FN
cg07194839	0.800	0.343	0.457	5e-16	NA	Hypermethylated in FP vs FN
cg27381488	0.704	0.167	0.537	6e-16	NA	Hypermethylated in FP vs FN
cg03497907	0.672	0.125	0.547	1e-15	NA	Hypermethylated in FP vs FN
cg25714956	0.819	0.243	0.576	2e-15	NA	Hypermethylated in FP vs FN
cg10448808	0.801	0.156	0.644	4e-15	FOXC2	Hypermethylated in FP vs FN
cg08228350	0.730	0.223	0.506	4e-15	NA	Hypermethylated in FP vs FN
cg02816367	0.662	0.309	0.354	4e-15	FYN	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09890775	0.724	0.171	0.553	4e-15	NA	Hypermethylated in FP vs FN
cg07310500	0.672	0.195	0.477	4e-15	NA	Hypermethylated in FP vs FN
cg18190187	0.550	0.050	0.500	6e-15	DRD1	Hypermethylated in FP vs FN
cg11215918	0.766	0.147	0.619	7e-15	NA	Hypermethylated in FP vs FN
cg19641570	0.616	0.189	0.427	7e-15	NA	Hypermethylated in FP vs FN
cg26618058	0.805	0.230	0.575	8e-15	NA	Hypermethylated in FP vs FN
cg13920768	0.541	0.147	0.395	1e-14	NA	Hypermethylated in FP vs FN
cg08089518	0.547	0.218	0.329	1e-14	NA	Hypermethylated in FP vs FN
cg06931444	0.789	0.262	0.527	2e-14	NA	Hypermethylated in FP vs FN
cg10829693	0.737	0.126	0.612	2e-14	NA	Hypermethylated in FP vs FN
cg13269555	0.779	0.219	0.559	2e-14	NA	Hypermethylated in FP vs FN
cg16782885	0.747	0.212	0.535	2e-14	NA	Hypermethylated in FP vs FN
cg10904740	0.750	0.247	0.503	2e-14	NA	Hypermethylated in FP vs FN
cg21273407	0.662	0.074	0.588	2e-14	NOS1	Hypermethylated in FP vs FN
cg02654449	0.625	0.211	0.414	3e-14	NA	Hypermethylated in FP vs FN
cg04582254	0.804	0.381	0.423	3e-14	NA	Hypermethylated in FP vs FN
cg06389574	0.821	0.331	0.490	3e-14	NA	Hypermethylated in FP vs FN
cg08818337	0.879	0.501	0.378	4e-14	NA	Hypermethylated in FP vs FN
cg08904630	0.855	0.407	0.448	4e-14	NA	Hypermethylated in FP vs FN
cg11487526	0.740	0.135	0.605	4e-14	NA	Hypermethylated in FP vs FN
cg22045288	0.688	0.367	0.321	4e-14	C10orf91	Hypermethylated in FP vs FN
cg00968638	0.599	0.091	0.508	4e-14	NA	Hypermethylated in FP vs FN
cg11575912	0.676	0.069	0.607	4e-14	NA	Hypermethylated in FP vs FN
cg01678309	0.831	0.340	0.490	5e-14	NA	Hypermethylated in FP vs FN
cg14409032	0.670	0.168	0.502	6e-14	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03514843	0.784	0.331	0.453	6e-14	EMILIN1	Hypermethylated in FP vs FN
cg22047282	0.762	0.306	0.456	6e-14	EMILIN1	Hypermethylated in FP vs FN
cg24065957	0.828	0.432	0.396	7e-14	NA	Hypermethylated in FP vs FN
cg10498921	0.770	0.245	0.525	7e-14	NA	Hypermethylated in FP vs FN
cg10235355	0.763	0.189	0.575	7e-14	NA	Hypermethylated in FP vs FN
cg09358973	0.712	0.173	0.540	7e-14	NAV1	Hypermethylated in FP vs FN
cg02085210	0.374	0.067	0.307	8e-14	ODC1	Hypermethylated in FP vs FN
cg05695937	0.688	0.086	0.602	9e-14	NAV1	Hypermethylated in FP vs FN
cg20019720	0.735	0.246	0.489	1e-13	CNKSR3	Hypermethylated in FP vs FN
cg05300248	0.680	0.185	0.495	1e-13	NA	Hypermethylated in FP vs FN
cg09780231	0.645	0.203	0.442	1e-13	NA	Hypermethylated in FP vs FN
cg09911521	0.694	0.118	0.576	1e-13	NA	Hypermethylated in FP vs FN
cg16207263	0.776	0.293	0.484	1e-13	NA	Hypermethylated in FP vs FN
cg02449166	0.662	0.133	0.529	2e-13	NA	Hypermethylated in FP vs FN
cg13551783	0.795	0.417	0.379	2e-13	NA	Hypermethylated in FP vs FN
cg23829102	0.700	0.231	0.469	2e-13	NA	Hypermethylated in FP vs FN
cg19031429	0.761	0.387	0.374	2e-13	NA	Hypermethylated in FP vs FN
cg13071729	0.568	0.058	0.510	2e-13	NAV1	Hypermethylated in FP vs FN
cg06568535	0.450	0.076	0.374	2e-13	RBMS3	Hypermethylated in FP vs FN
cg23133355	0.835	0.387	0.447	2e-13	NA	Hypermethylated in FP vs FN
cg01644798	0.792	0.333	0.459	2e-13	NA	Hypermethylated in FP vs FN
cg14100888	0.598	0.103	0.495	2e-13	NA	Hypermethylated in FP vs FN
cg24387126	0.822	0.373	0.448	3e-13	NA	Hypermethylated in FP vs FN
cg13877482	0.734	0.388	0.346	3e-13	NA	Hypermethylated in FP vs FN
cg12417362	0.589	0.066	0.523	3e-13	NAV1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00472277	0.715	0.218	0.497	3e-13	NA	Hypermethylated in FP vs FN
cg20516209	0.801	0.307	0.495	3e-13	EMILIN1	Hypermethylated in FP vs FN
cg18243853	0.762	0.188	0.574	3e-13	NA	Hypermethylated in FP vs FN
cg04095069	0.812	0.412	0.400	3e-13	NA	Hypermethylated in FP vs FN
cg02146032	0.621	0.182	0.439	3e-13	NA	Hypermethylated in FP vs FN
cg10154597	0.747	0.317	0.430	3e-13	NA	Hypermethylated in FP vs FN
cg23016472	0.755	0.200	0.555	4e-13	NA	Hypermethylated in FP vs FN
cg12216863	0.672	0.151	0.522	4e-13	NA	Hypermethylated in FP vs FN
cg08986340	0.479	0.119	0.361	4e-13	NA	Hypermethylated in FP vs FN
cg11758841	0.819	0.423	0.396	4e-13	NA	Hypermethylated in FP vs FN
cg00374717	0.853	0.444	0.409	4e-13	NA	Hypermethylated in FP vs FN
cg05412333	0.802	0.224	0.578	4e-13	GATA4	Hypermethylated in FP vs FN
cg13775299	0.593	0.126	0.467	5e-13	NA	Hypermethylated in FP vs FN
cg25506288	0.671	0.184	0.488	5e-13	NA	Hypermethylated in FP vs FN
cg08193650	0.646	0.062	0.583	5e-13	NA	Hypermethylated in FP vs FN
cg17429870	0.743	0.254	0.490	5e-13	NA	Hypermethylated in FP vs FN
cg04167595	0.740	0.180	0.560	5e-13	NA	Hypermethylated in FP vs FN
cg19509663	0.818	0.366	0.452	5e-13	NA	Hypermethylated in FP vs FN
cg24996315	0.795	0.329	0.466	6e-13	NA	Hypermethylated in FP vs FN
cg14136893	0.866	0.365	0.501	6e-13	NA	Hypermethylated in FP vs FN
cg08605965	0.811	0.323	0.488	6e-13	NA	Hypermethylated in FP vs FN
cg16517702	0.594	0.060	0.534	6e-13	NAV1	Hypermethylated in FP vs FN
cg25552843	0.491	0.151	0.340	7e-13	NA	Hypermethylated in FP vs FN
cg25386707	0.564	0.085	0.480	7e-13	NA	Hypermethylated in FP vs FN
cg18517266	0.776	0.132	0.644	7e-13	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15019011	0.824	0.383	0.440	7e-13	NA	Hypermethylated in FP vs FN
cg12102573	0.798	0.401	0.397	8e-13	NA	Hypermethylated in FP vs FN
cg22153312	0.627	0.189	0.439	8e-13	NA	Hypermethylated in FP vs FN
cg05738715	0.599	0.166	0.433	9e-13	NA	Hypermethylated in FP vs FN
cg02187822	0.585	0.216	0.369	1e-12	NA	Hypermethylated in FP vs FN
cg26995244	0.734	0.220	0.514	1e-12	NA	Hypermethylated in FP vs FN
cg08379586	0.732	0.180	0.552	1e-12	GATA4	Hypermethylated in FP vs FN
cg04030486	0.683	0.138	0.545	1e-12	NA	Hypermethylated in FP vs FN
cg21006686	0.850	0.329	0.521	1e-12	NOS1	Hypermethylated in FP vs FN
cg20011326	0.759	0.190	0.568	1e-12	NA	Hypermethylated in FP vs FN
cg11132534	0.747	0.306	0.441	1e-12	NA	Hypermethylated in FP vs FN
cg14834267	0.599	0.066	0.533	1e-12	NAV1	Hypermethylated in FP vs FN
cg14021880	0.820	0.361	0.460	1e-12	EMILIN1	Hypermethylated in FP vs FN
cg12574576	0.734	0.306	0.428	2e-12	NA	Hypermethylated in FP vs FN
cg26925644	0.699	0.212	0.487	2e-12	PHLDB1	Hypermethylated in FP vs FN
cg15491701	0.662	0.211	0.451	2e-12	NA	Hypermethylated in FP vs FN
cg19640166	0.545	0.151	0.394	2e-12	NA	Hypermethylated in FP vs FN
cg17056676	0.679	0.274	0.405	2e-12	NA	Hypermethylated in FP vs FN
cg19971388	0.757	0.269	0.488	2e-12	NA	Hypermethylated in FP vs FN
cg15425427	0.581	0.130	0.451	2e-12	SIPA1	Hypermethylated in FP vs FN
cg09983326	0.573	0.098	0.475	2e-12	NA	Hypermethylated in FP vs FN
cg14694342	0.622	0.105	0.517	2e-12	NA	Hypermethylated in FP vs FN
cg02962597	0.804	0.347	0.457	2e-12	NOS1	Hypermethylated in FP vs FN
cg12829141	0.604	0.115	0.489	2e-12	NA	Hypermethylated in FP vs FN
cg22326353	0.539	0.092	0.447	2e-12	MIF4GD	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19424261	0.591	0.256	0.335	3e-12	NA	Hypermethylated in FP vs FN
cg14423045	0.805	0.482	0.323	3e-12	NA	Hypermethylated in FP vs FN
cg02119091	0.770	0.260	0.510	3e-12	NA	Hypermethylated in FP vs FN
cg04287574	0.790	0.237	0.553	3e-12	NA	Hypermethylated in FP vs FN
cg10451078	0.810	0.170	0.640	3e-12	GATA4	Hypermethylated in FP vs FN
cg21460582	0.801	0.500	0.301	3e-12	CSPG4	Hypermethylated in FP vs FN
cg15148513	0.839	0.476	0.363	3e-12	NA	Hypermethylated in FP vs FN
cg17327331	0.822	0.406	0.416	3e-12	NA	Hypermethylated in FP vs FN
cg24361048	0.808	0.506	0.303	3e-12	NA	Hypermethylated in FP vs FN
cg00277753	0.894	0.457	0.437	3e-12	NA	Hypermethylated in FP vs FN
cg16546703	0.587	0.172	0.415	3e-12	ARSI	Hypermethylated in FP vs FN
cg17962547	0.865	0.517	0.348	3e-12	NA	Hypermethylated in FP vs FN
cg14227460	0.627	0.252	0.375	3e-12	PLIN4	Hypermethylated in FP vs FN
cg05224498	0.804	0.499	0.305	3e-12	NA	Hypermethylated in FP vs FN
cg05483776	0.854	0.390	0.464	3e-12	NA	Hypermethylated in FP vs FN
cg13557167	0.832	0.498	0.334	4e-12	NA	Hypermethylated in FP vs FN
cg11448683	0.688	0.225	0.463	4e-12	TCTEX1D4_BTBD19	Hypermethylated in FP vs FN
cg12092201	0.633	0.099	0.534	4e-12	NA	Hypermethylated in FP vs FN
cg16112129	0.702	0.179	0.524	4e-12	DRD1	Hypermethylated in FP vs FN
cg02061967	0.696	0.234	0.462	4e-12	NA	Hypermethylated in FP vs FN
cg24253904	0.693	0.390	0.303	4e-12	NA	Hypermethylated in FP vs FN
cg09671258	0.701	0.062	0.639	4e-12	NA	Hypermethylated in FP vs FN
cg09693811	0.485	0.168	0.317	4e-12	NA	Hypermethylated in FP vs FN
cg01296593	0.590	0.155	0.435	5e-12	FOXC2	Hypermethylated in FP vs FN
cg08539872	0.723	0.169	0.554	5e-12	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14323199	0.535	0.116	0.419	5e-12	NA	Hypermethylated in FP vs FN
cg16876647	0.709	0.113	0.596	5e-12	NA	Hypermethylated in FP vs FN
cg13583088	0.723	0.319	0.404	6e-12	NA	Hypermethylated in FP vs FN
cg04410777	0.579	0.088	0.491	6e-12	SEMA6B	Hypermethylated in FP vs FN
cg04233840	0.818	0.215	0.602	6e-12	GATA4	Hypermethylated in FP vs FN
cg22086566	0.810	0.292	0.518	6e-12	NA	Hypermethylated in FP vs FN
cg24304789	0.602	0.099	0.502	6e-12	NA	Hypermethylated in FP vs FN
cg25369553	0.777	0.398	0.379	7e-12	NA	Hypermethylated in FP vs FN
cg02971253	0.602	0.229	0.372	7e-12	NA	Hypermethylated in FP vs FN
cg12064373	0.640	0.179	0.461	7e-12	NA	Hypermethylated in FP vs FN
cg16766632	0.786	0.336	0.450	7e-12	NA	Hypermethylated in FP vs FN
cg00118317	0.523	0.147	0.375	7e-12	NA	Hypermethylated in FP vs FN
cg03116124	0.700	0.297	0.403	7e-12	NA	Hypermethylated in FP vs FN
cg04601228	0.881	0.369	0.512	7e-12	NA	Hypermethylated in FP vs FN
cg01949455	0.677	0.211	0.465	7e-12	NA	Hypermethylated in FP vs FN
cg07568313	0.828	0.497	0.331	8e-12	NA	Hypermethylated in FP vs FN
cg07090980	0.861	0.487	0.374	8e-12	NA	Hypermethylated in FP vs FN
cg04242078	0.622	0.239	0.383	9e-12	NA	Hypermethylated in FP vs FN
cg07937631	0.721	0.284	0.437	9e-12	NA	Hypermethylated in FP vs FN
cg12564012	0.783	0.280	0.503	9e-12	NA	Hypermethylated in FP vs FN
cg02546607	0.686	0.277	0.409	9e-12	NA	Hypermethylated in FP vs FN
cg18442286	0.737	0.172	0.565	9e-12	NA	Hypermethylated in FP vs FN
cg02502679	0.835	0.443	0.392	9e-12	NA	Hypermethylated in FP vs FN
cg00296038	0.750	0.395	0.356	9e-12	VGLL4	Hypermethylated in FP vs FN
cg13058457	0.747	0.352	0.394	9e-12	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22222461	0.699	0.282	0.417	1e-11	NA	Hypermethylated in FP vs FN
cg04509074	0.584	0.138	0.446	1e-11	NA	Hypermethylated in FP vs FN
cg19848599	0.789	0.343	0.446	1e-11	NA	Hypermethylated in FP vs FN
cg20458044	0.641	0.352	0.289	1e-11	NA	Hypermethylated in FP vs FN
cg15285436	0.788	0.380	0.409	1e-11	NA	Hypermethylated in FP vs FN
cg13305415	0.645	0.227	0.417	1e-11	NA	Hypermethylated in FP vs FN
cg15302379	0.788	0.314	0.474	1e-11	KAZALD1	Hypermethylated in FP vs FN
cg11650135	0.800	0.420	0.380	1e-11	NA	Hypermethylated in FP vs FN
cg14920846	0.751	0.249	0.502	1e-11	NAV1	Hypermethylated in FP vs FN
cg23096689	0.742	0.323	0.420	1e-11	FOXC2	Hypermethylated in FP vs FN
cg13663738	0.609	0.145	0.464	1e-11	NA	Hypermethylated in FP vs FN
cg14989164	0.549	0.124	0.425	1e-11	NA	Hypermethylated in FP vs FN
cg03441452	0.870	0.374	0.495	1e-11	NA	Hypermethylated in FP vs FN
cg10914558	0.673	0.239	0.435	1e-11	NA	Hypermethylated in FP vs FN
cg27258696	0.845	0.390	0.455	1e-11	NA	Hypermethylated in FP vs FN
cg21227848	0.753	0.208	0.544	1e-11	NA	Hypermethylated in FP vs FN
cg10135197	0.495	0.156	0.340	1e-11	NA	Hypermethylated in FP vs FN
cg19793499	0.845	0.373	0.473	1e-11	NA	Hypermethylated in FP vs FN
cg00784105	0.776	0.455	0.321	1e-11	NA	Hypermethylated in FP vs FN
cg08107354	0.878	0.505	0.374	1e-11	NA	Hypermethylated in FP vs FN
cg17515024	0.533	0.155	0.378	1e-11	HIST3H2BB	Hypermethylated in FP vs FN
cg05515072	0.518	0.199	0.319	1e-11	NA	Hypermethylated in FP vs FN
cg14524643	0.568	0.304	0.263	2e-11	NA	Hypermethylated in FP vs FN
cg20851030	0.876	0.369	0.507	2e-11	NA	Hypermethylated in FP vs FN
cg07409629	0.829	0.454	0.375	2e-11	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14236413	0.827	0.416	0.411	2e-11	NA	Hypermethylated in FP vs FN
cg04843968	0.851	0.510	0.340	2e-11	NA	Hypermethylated in FP vs FN
cg07123579	0.801	0.512	0.289	2e-11	NA	Hypermethylated in FP vs FN
cg13298538	0.704	0.361	0.343	2e-11	NA	Hypermethylated in FP vs FN
cg02595280	0.822	0.261	0.561	2e-11	NA	Hypermethylated in FP vs FN
cg22773334	0.656	0.347	0.309	2e-11	NA	Hypermethylated in FP vs FN
cg10109635	0.887	0.522	0.365	2e-11	NA	Hypermethylated in FP vs FN
cg27493151	0.765	0.279	0.487	2e-11	NA	Hypermethylated in FP vs FN
cg25600933	0.741	0.251	0.490	2e-11	NA	Hypermethylated in FP vs FN
cg15171154	0.748	0.271	0.477	2e-11	NA	Hypermethylated in FP vs FN
cg05307803	0.646	0.248	0.398	2e-11	NA	Hypermethylated in FP vs FN
cg26862316	0.796	0.355	0.442	2e-11	AKT2	Hypermethylated in FP vs FN
cg01514415	0.348	0.095	0.254	2e-11	NA	Hypermethylated in FP vs FN
cg19399165	0.692	0.241	0.451	2e-11	EMILIN1	Hypermethylated in FP vs FN
cg19892287	0.677	0.283	0.395	2e-11	NA	Hypermethylated in FP vs FN
cg13713922	0.753	0.257	0.496	2e-11	NA	Hypermethylated in FP vs FN
cg05573626	0.694	0.363	0.331	2e-11	NA	Hypermethylated in FP vs FN
cg25339612	0.668	0.155	0.513	2e-11	ENC1	Hypermethylated in FP vs FN
cg25195968	0.726	0.326	0.400	2e-11	NA	Hypermethylated in FP vs FN
cg13916835	0.763	0.285	0.478	2e-11	NA	Hypermethylated in FP vs FN
cg03025825	0.848	0.425	0.423	2e-11	NA	Hypermethylated in FP vs FN
cg02397205	0.865	0.404	0.461	2e-11	NA	Hypermethylated in FP vs FN
cg03796321	0.702	0.172	0.530	2e-11	NA	Hypermethylated in FP vs FN
cg26224624	0.847	0.450	0.397	2e-11	NA	Hypermethylated in FP vs FN
cg09925747	0.438	0.161	0.276	2e-11	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12117141	0.697	0.169	0.528	2e-11	NA	Hypermethylated in FP vs FN
cg06706550	0.798	0.344	0.454	2e-11	NA	Hypermethylated in FP vs FN
cg18119192	0.812	0.260	0.552	2e-11	NA	Hypermethylated in FP vs FN
cg03538436	0.745	0.200	0.545	2e-11	NOS1	Hypermethylated in FP vs FN
cg10233454	0.708	0.255	0.454	3e-11	NA	Hypermethylated in FP vs FN
cg23288298	0.597	0.122	0.475	3e-11	NA	Hypermethylated in FP vs FN
cg07021447	0.873	0.529	0.344	3e-11	NA	Hypermethylated in FP vs FN
cg26232359	0.764	0.315	0.449	3e-11	NA	Hypermethylated in FP vs FN
cg02153814	0.649	0.338	0.311	3e-11	NA	Hypermethylated in FP vs FN
cg11691504	0.822	0.422	0.400	3e-11	DLGAP2	Hypermethylated in FP vs FN
cg10453420	0.725	0.161	0.564	3e-11	NA	Hypermethylated in FP vs FN
cg09371620	0.789	0.390	0.399	3e-11	NA	Hypermethylated in FP vs FN
cg06290096	0.738	0.352	0.386	3e-11	PHLDB1	Hypermethylated in FP vs FN
cg13709894	0.492	0.154	0.338	3e-11	NA	Hypermethylated in FP vs FN
cg09375488	0.817	0.463	0.354	3e-11	ASB4	Hypermethylated in FP vs FN
cg20167126	0.518	0.139	0.379	3e-11	NA	Hypermethylated in FP vs FN
cg00816182	0.483	0.163	0.321	3e-11	NA	Hypermethylated in FP vs FN
cg16735682	0.374	0.089	0.285	3e-11	ELN	Hypermethylated in FP vs FN
cg03434029	0.709	0.268	0.441	4e-11	TCTEX1D4_BTBD19	Hypermethylated in FP vs FN
cg14665813	0.739	0.157	0.583	4e-11	NA	Hypermethylated in FP vs FN
cg07362569	0.391	0.106	0.285	4e-11	SMARCD2	Hypermethylated in FP vs FN
cg21329649	0.824	0.448	0.376	4e-11	NA	Hypermethylated in FP vs FN
cg00882235	0.674	0.153	0.521	4e-11	NA	Hypermethylated in FP vs FN
cg05930881	0.832	0.188	0.644	4e-11	GATA4	Hypermethylated in FP vs FN
cg18063017	0.687	0.209	0.477	4e-11	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02323633	0.607	0.128	0.479	4e-11	ENC1	Hypermethylated in FP vs FN
cg08883485	0.730	0.303	0.427	4e-11	NA	Hypermethylated in FP vs FN
cg06412358	0.588	0.092	0.496	4e-11	NA	Hypermethylated in FP vs FN
cg12732998	0.772	0.227	0.545	4e-11	NA	Hypermethylated in FP vs FN
cg26310429	0.944	0.610	0.335	4e-11	NA	Hypermethylated in FP vs FN
cg11290182	0.795	0.309	0.486	5e-11	NA	Hypermethylated in FP vs FN
cg20591120	0.787	0.385	0.402	5e-11	NA	Hypermethylated in FP vs FN
cg09249494	0.580	0.210	0.370	5e-11	LY86	Hypermethylated in FP vs FN
cg07911361	0.635	0.238	0.396	5e-11	NA	Hypermethylated in FP vs FN
cg06629713	0.833	0.531	0.301	5e-11	NA	Hypermethylated in FP vs FN
cg08408994	0.649	0.077	0.571	5e-11	NA	Hypermethylated in FP vs FN
cg16732616	0.578	0.055	0.524	5e-11	NA	Hypermethylated in FP vs FN
cg21680719	0.780	0.340	0.441	5e-11	NA	Hypermethylated in FP vs FN
cg05638500	0.840	0.521	0.318	5e-11	NA	Hypermethylated in FP vs FN
cg25271479	0.512	0.127	0.386	5e-11	NA	Hypermethylated in FP vs FN
cg22076676	0.687	0.377	0.310	5e-11	NA	Hypermethylated in FP vs FN
cg25227364	0.771	0.324	0.448	5e-11	NA	Hypermethylated in FP vs FN
cg17139085	0.751	0.339	0.412	5e-11	NA	Hypermethylated in FP vs FN
cg17898124	0.823	0.398	0.425	5e-11	NA	Hypermethylated in FP vs FN
cg08095452	0.778	0.301	0.478	5e-11	NA	Hypermethylated in FP vs FN
cg00244267	0.629	0.281	0.348	5e-11	SEMA6B	Hypermethylated in FP vs FN
cg19332409	0.823	0.357	0.466	6e-11	NA	Hypermethylated in FP vs FN
cg26319579	0.411	0.112	0.300	6e-11	TEAD3	Hypermethylated in FP vs FN
cg07487572	0.820	0.353	0.467	6e-11	NA	Hypermethylated in FP vs FN
cg26410483	0.619	0.104	0.515	6e-11	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20886049	0.782	0.430	0.351	6e-11	TSKU	Hypermethylated in FP vs FN
cg20708135	0.757	0.350	0.407	6e-11	TSKU	Hypermethylated in FP vs FN
cg20779414	0.356	0.094	0.262	6e-11	STAT6	Hypermethylated in FP vs FN
cg04179952	0.728	0.226	0.503	6e-11	NA	Hypermethylated in FP vs FN
cg21680729	0.816	0.544	0.272	6e-11	NA	Hypermethylated in FP vs FN
cg00808555	0.614	0.257	0.358	7e-11	ARL5C	Hypermethylated in FP vs FN
cg13964068	0.577	0.215	0.362	7e-11	NA	Hypermethylated in FP vs FN
cg20912752	0.838	0.377	0.461	7e-11	NA	Hypermethylated in FP vs FN
cg20118431	0.786	0.374	0.412	7e-11	NA	Hypermethylated in FP vs FN
cg08106887	0.735	0.224	0.511	7e-11	NA	Hypermethylated in FP vs FN
cg05186311	0.573	0.137	0.436	7e-11	NA	Hypermethylated in FP vs FN
cg18123948	0.789	0.244	0.545	7e-11	GATA4	Hypermethylated in FP vs FN
cg07067993	0.750	0.257	0.493	7e-11	NA	Hypermethylated in FP vs FN
cg10589235	0.801	0.293	0.508	7e-11	NA	Hypermethylated in FP vs FN
cg01185921	0.672	0.254	0.418	7e-11	ABLIM1	Hypermethylated in FP vs FN
cg07080050	0.756	0.241	0.515	7e-11	NA	Hypermethylated in FP vs FN
cg18118490	0.418	0.117	0.302	7e-11	NA	Hypermethylated in FP vs FN
cg25746778	0.724	0.201	0.523	7e-11	NA	Hypermethylated in FP vs FN
cg20460153	0.867	0.571	0.297	8e-11	NA	Hypermethylated in FP vs FN
cg17896927	0.595	0.187	0.408	8e-11	RGMA	Hypermethylated in FP vs FN
cg04423214	0.863	0.481	0.382	8e-11	NA	Hypermethylated in FP vs FN
cg10256255	0.855	0.528	0.327	8e-11	NA	Hypermethylated in FP vs FN
cg05113840	0.570	0.150	0.420	8e-11	NA	Hypermethylated in FP vs FN
cg08890418	0.578	0.059	0.519	8e-11	KIF17	Hypermethylated in FP vs FN
cg17119907	0.769	0.268	0.501	8e-11	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00408315	0.825	0.423	0.401	8e-11	NA	Hypermethylated in FP vs FN
cg27140633	0.833	0.329	0.504	8e-11	NA	Hypermethylated in FP vs FN
cg16278514	0.702	0.339	0.363	8e-11	NA	Hypermethylated in FP vs FN
cg21642054	0.784	0.458	0.326	8e-11	NA	Hypermethylated in FP vs FN
cg21316772	0.655	0.320	0.335	9e-11	B4GALT1	Hypermethylated in FP vs FN
cg20285745	0.648	0.324	0.324	9e-11	NA	Hypermethylated in FP vs FN
cg00737841	0.788	0.306	0.482	9e-11	NA	Hypermethylated in FP vs FN
cg14606082	0.794	0.423	0.371	9e-11	LFNG	Hypermethylated in FP vs FN
cg08302885	0.707	0.280	0.427	9e-11	NA	Hypermethylated in FP vs FN
cg05548130	0.798	0.426	0.372	9e-11	NA	Hypermethylated in FP vs FN
cg23250528	0.835	0.468	0.367	9e-11	NA	Hypermethylated in FP vs FN
cg03625953	0.773	0.293	0.480	9e-11	NA	Hypermethylated in FP vs FN
cg02905426	0.791	0.323	0.468	1e-10	FAM76A	Hypermethylated in FP vs FN
cg14362630	0.651	0.137	0.515	1e-10	NA	Hypermethylated in FP vs FN
cg21074656	0.641	0.257	0.384	1e-10	NA	Hypermethylated in FP vs FN
cg19604496	0.807	0.332	0.475	1e-10	NA	Hypermethylated in FP vs FN
cg10187692	0.560	0.242	0.318	1e-10	NA	Hypermethylated in FP vs FN
cg03024537	0.723	0.283	0.440	1e-10	NA	Hypermethylated in FP vs FN
cg17827020	0.578	0.110	0.469	1e-10	NA	Hypermethylated in FP vs FN
cg07060913	0.675	0.204	0.471	1e-10	NA	Hypermethylated in FP vs FN
cg09353705	0.546	0.159	0.387	1e-10	NA	Hypermethylated in FP vs FN
cg05797224	0.884	0.495	0.389	1e-10	NA	Hypermethylated in FP vs FN
cg25372085	0.691	0.390	0.301	1e-10	NA	Hypermethylated in FP vs FN
cg25122233	0.762	0.227	0.534	1e-10	NA	Hypermethylated in FP vs FN
cg23251296	0.796	0.420	0.376	1e-10	CD79B	Hypermethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16710604	0.726	0.310	0.416	1e-10	NA	Hypermethylated in FP vs FN
cg27199976	0.711	0.281	0.429	1e-10	NA	Hypermethylated in FP vs FN
cg13166213	0.780	0.248	0.532	1e-10	GATA4	Hypermethylated in FP vs FN
cg15186616	0.795	0.453	0.342	1e-10	DLGAP2	Hypermethylated in FP vs FN
cg05053979	0.813	0.475	0.338	1e-10	NA	Hypermethylated in FP vs FN
cg00911881	0.801	0.351	0.450	1e-10	NA	Hypermethylated in FP vs FN
cg02097014	0.539	0.287	0.252	1e-10	CHI3L1	Hypermethylated in FP vs FN
cg19615174	0.591	0.113	0.478	1e-10	SEMA6B	Hypermethylated in FP vs FN
cg14227785	0.833	0.409	0.424	1e-10	NA	Hypermethylated in FP vs FN
cg12999366	0.711	0.281	0.429	1e-10	NA	Hypermethylated in FP vs FN
cg26225694	0.475	0.055	0.420	1e-10	NA	Hypermethylated in FP vs FN
cg25265234	0.774	0.510	0.264	2e-10	NA	Hypermethylated in FP vs FN
cg10590925	0.724	0.240	0.484	2e-10	NA	Hypermethylated in FP vs FN
cg05315620	0.866	0.551	0.315	2e-10	NA	Hypermethylated in FP vs FN
cg15241074	0.643	0.200	0.442	2e-10	NA	Hypermethylated in FP vs FN
cg16708012	0.722	0.320	0.402	2e-10	TMEM119	Hypermethylated in FP vs FN
cg09642857	0.766	0.311	0.455	2e-10	NA	Hypermethylated in FP vs FN
cg09415955	0.637	0.347	0.291	2e-10	NA	Hypermethylated in FP vs FN
cg00313914	0.684	0.211	0.473	2e-10	NA	Hypermethylated in FP vs FN
cg09326079	0.810	0.422	0.388	2e-10	NA	Hypermethylated in FP vs FN
cg06080831	0.687	0.185	0.502	2e-10	NA	Hypermethylated in FP vs FN
cg15597364	0.640	0.172	0.469	2e-10	NA	Hypermethylated in FP vs FN
cg03287111	0.700	0.202	0.498	2e-10	NA	Hypermethylated in FP vs FN
cg24399395	0.466	0.052	0.414	2e-10	NA	Hypermethylated in FP vs FN
cg17633234	0.603	0.212	0.391	2e-10	RGMA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15613048	0.538	0.083	0.455	2e-10	KIF17	Hypermethylated in FP vs FN
cg26311262	0.652	0.296	0.356	2e-10	NA	Hypermethylated in FP vs FN
cg06680852	0.766	0.464	0.301	2e-10	NA	Hypermethylated in FP vs FN
cg04963697	0.857	0.483	0.374	2e-10	NA	Hypermethylated in FP vs FN
cg07507755	0.601	0.187	0.414	2e-10	ATP2C2	Hypermethylated in FP vs FN
cg02038418	0.879	0.544	0.335	2e-10	NA	Hypermethylated in FP vs FN
cg07139329	0.781	0.275	0.506	2e-10	NAV1	Hypermethylated in FP vs FN
cg04438661	0.871	0.457	0.414	2e-10	NA	Hypermethylated in FP vs FN
cg06707081	0.746	0.265	0.481	2e-10	GATA4	Hypermethylated in FP vs FN
cg10342899	0.435	0.153	0.282	2e-10	NA	Hypermethylated in FP vs FN
cg12560421	0.783	0.459	0.323	2e-10	NA	Hypermethylated in FP vs FN
cg27480444	0.826	0.445	0.382	2e-10	NA	Hypermethylated in FP vs FN
cg18091083	0.831	0.425	0.407	2e-10	NA	Hypermethylated in FP vs FN
cg17475271	0.774	0.373	0.401	2e-10	NA	Hypermethylated in FP vs FN
cg05237485	0.808	0.260	0.548	2e-10	NA	Hypermethylated in FP vs FN
cg16326073	0.768	0.431	0.337	2e-10	NA	Hypermethylated in FP vs FN
cg26035892	0.777	0.449	0.328	2e-10	NA	Hypermethylated in FP vs FN
cg21606696	0.777	0.501	0.276	2e-10	NA	Hypermethylated in FP vs FN
cg17745097	0.697	0.273	0.424	2e-10	NA	Hypermethylated in FP vs FN
cg04508114	0.793	0.422	0.370	2e-10	ABLIM1	Hypermethylated in FP vs FN
cg13726184	0.762	0.386	0.376	2e-10	NA	Hypermethylated in FP vs FN
cg03217729	0.688	0.315	0.373	2e-10	NA	Hypermethylated in FP vs FN
cg05318186	0.617	0.282	0.335	2e-10	NA	Hypermethylated in FP vs FN
cg00573770	0.647	0.307	0.340	2e-10	ZEB2	Hypermethylated in FP vs FN
cg11981599	0.791	0.301	0.491	3e-10	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13496979	0.645	0.078	0.566	3e-10	NA	Hypermethylated in FP vs FN
cg15895197	0.589	0.228	0.361	3e-10	EMILIN1	Hypermethylated in FP vs FN
cg24212268	0.700	0.334	0.366	3e-10	NA	Hypermethylated in FP vs FN
cg19536781	0.813	0.440	0.374	3e-10	NA	Hypermethylated in FP vs FN
cg04984852	0.827	0.369	0.458	3e-10	NA	Hypermethylated in FP vs FN
cg24317122	0.818	0.390	0.428	3e-10	NA	Hypermethylated in FP vs FN
cg11721177	0.607	0.193	0.414	3e-10	NA	Hypermethylated in FP vs FN
cg14240060	0.781	0.319	0.462	3e-10	NA	Hypermethylated in FP vs FN
cg00177797	0.697	0.165	0.532	3e-10	NA	Hypermethylated in FP vs FN
cg20741105	0.748	0.304	0.444	3e-10	NA	Hypermethylated in FP vs FN
cg19823138	0.691	0.323	0.368	3e-10	NA	Hypermethylated in FP vs FN
cg06707765	0.814	0.443	0.371	3e-10	NA	Hypermethylated in FP vs FN
cg19662708	0.812	0.473	0.339	3e-10	NA	Hypermethylated in FP vs FN
cg01468426	0.800	0.408	0.393	3e-10	NA	Hypermethylated in FP vs FN
cg22212839	0.817	0.444	0.374	3e-10	NA	Hypermethylated in FP vs FN
cg15112747	0.693	0.336	0.356	3e-10	NA	Hypermethylated in FP vs FN
cg11469540	0.600	0.187	0.413	3e-10	NA	Hypermethylated in FP vs FN
cg25191628	0.558	0.085	0.473	3e-10	NA	Hypermethylated in FP vs FN
cg05939993	0.841	0.516	0.325	3e-10	PROP1	Hypermethylated in FP vs FN
cg15480336	0.739	0.438	0.301	3e-10	ISLR	Hypermethylated in FP vs FN
cg15005962	0.712	0.375	0.337	3e-10	NA	Hypermethylated in FP vs FN
cg24964215	0.713	0.309	0.404	3e-10	NA	Hypermethylated in FP vs FN
cg18834729	0.777	0.285	0.492	3e-10	NA	Hypermethylated in FP vs FN
cg00129811	0.583	0.219	0.364	3e-10	NA	Hypermethylated in FP vs FN
cg13177873	0.554	0.206	0.348	3e-10	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16622061	0.623	0.256	0.367	3e-10	NA	Hypermethylated in FP vs FN
cg14044785	0.631	0.301	0.330	3e-10	NA	Hypermethylated in FP vs FN
cg26427896	0.749	0.421	0.329	3e-10	NA	Hypermethylated in FP vs FN
cg20279283	0.757	0.334	0.422	3e-10	NA	Hypermethylated in FP vs FN
cg25816127	0.470	0.147	0.324	3e-10	NA	Hypermethylated in FP vs FN
cg13165758	0.575	0.162	0.413	3e-10	NA	Hypermethylated in FP vs FN
cg01691710	0.481	0.173	0.308	3e-10	NA	Hypermethylated in FP vs FN
cg10021749	0.748	0.299	0.449	3e-10	LFNG	Hypermethylated in FP vs FN
cg26325912	0.728	0.363	0.365	3e-10	NA	Hypermethylated in FP vs FN
cg23271501	0.796	0.511	0.284	3e-10	NA	Hypermethylated in FP vs FN
cg02220418	0.813	0.336	0.477	3e-10	NA	Hypermethylated in FP vs FN
cg13276704	0.645	0.226	0.419	3e-10	NA	Hypermethylated in FP vs FN
cg11778001	0.459	0.146	0.313	4e-10	NAB1	Hypermethylated in FP vs FN
cg19914919	0.573	0.230	0.344	4e-10	TANK	Hypermethylated in FP vs FN
cg11182965	0.764	0.506	0.258	4e-10	NA	Hypermethylated in FP vs FN
cg06423949	0.849	0.417	0.433	4e-10	NA	Hypermethylated in FP vs FN
cg18610302	0.808	0.483	0.325	4e-10	NA	Hypermethylated in FP vs FN
cg04555379	0.903	0.609	0.294	4e-10	NA	Hypermethylated in FP vs FN
cg23217153	0.606	0.263	0.343	4e-10	NA	Hypermethylated in FP vs FN
cg01883046	0.771	0.288	0.482	4e-10	NA	Hypermethylated in FP vs FN
cg03400139	0.849	0.474	0.375	4e-10	NA	Hypermethylated in FP vs FN
cg23598080	0.652	0.141	0.512	4e-10	NA	Hypermethylated in FP vs FN
cg15606654	0.831	0.485	0.346	4e-10	NA	Hypermethylated in FP vs FN
cg01605435	0.755	0.338	0.417	4e-10	NA	Hypermethylated in FP vs FN
cg16304215	0.705	0.165	0.539	4e-10	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16423375	0.605	0.159	0.446	4e-10	NA	Hypermethylated in FP vs FN
cg22333888	0.537	0.259	0.278	4e-10	ADAM33	Hypermethylated in FP vs FN
cg13573036	0.635	0.234	0.400	4e-10	NA	Hypermethylated in FP vs FN
cg26695387	0.556	0.185	0.371	4e-10	NA	Hypermethylated in FP vs FN
cg01109734	0.801	0.329	0.472	4e-10	NA	Hypermethylated in FP vs FN
cg02115911	0.804	0.335	0.469	4e-10	NA	Hypermethylated in FP vs FN
cg01546563	0.808	0.308	0.500	4e-10	NA	Hypermethylated in FP vs FN
cg14288483	0.741	0.312	0.429	4e-10	NA	Hypermethylated in FP vs FN
cg08974450	0.521	0.084	0.437	4e-10	ATP2C2	Hypermethylated in FP vs FN
cg17929859	0.772	0.417	0.355	4e-10	NA	Hypermethylated in FP vs FN
cg18657988	0.799	0.475	0.324	4e-10	NA	Hypermethylated in FP vs FN
cg02343467	0.877	0.613	0.264	4e-10	NA	Hypermethylated in FP vs FN
cg14665901	0.723	0.309	0.414	4e-10	NA	Hypermethylated in FP vs FN
cg22042833	0.539	0.134	0.405	4e-10	NA	Hypermethylated in FP vs FN
cg15343224	0.850	0.434	0.416	4e-10	NA	Hypermethylated in FP vs FN
cg09793172	0.513	0.100	0.412	4e-10	KIF17	Hypermethylated in FP vs FN
cg22139212	0.834	0.555	0.279	4e-10	NA	Hypermethylated in FP vs FN
cg14168733	0.745	0.272	0.473	4e-10	NAV1	Hypermethylated in FP vs FN
cg12892471	0.740	0.442	0.298	5e-10	LIMA1	Hypermethylated in FP vs FN
cg25214187	0.713	0.236	0.477	5e-10	NA	Hypermethylated in FP vs FN
cg04340651	0.707	0.270	0.437	5e-10	RGMA	Hypermethylated in FP vs FN
cg08276755	0.726	0.280	0.446	5e-10	NA	Hypermethylated in FP vs FN
cg24335138	0.567	0.064	0.503	5e-10	NA	Hypermethylated in FP vs FN
cg11967457	0.855	0.545	0.310	5e-10	LEFTY2	Hypermethylated in FP vs FN
cg12824782	0.695	0.321	0.374	5e-10	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25941751	0.864	0.549	0.315	5e-10	NA	Hypermethylated in FP vs FN
cg23031444	0.819	0.414	0.405	5e-10	NA	Hypermethylated in FP vs FN
cg04455430	0.630	0.160	0.470	5e-10	NA	Hypermethylated in FP vs FN
cg17995652	0.702	0.255	0.447	5e-10	NA	Hypermethylated in FP vs FN
cg26365854	0.668	0.093	0.576	5e-10	NA	Hypermethylated in FP vs FN
cg22491548	0.451	0.096	0.355	5e-10	NA	Hypermethylated in FP vs FN
cg01923516	0.882	0.514	0.368	5e-10	NA	Hypermethylated in FP vs FN
cg23594656	0.629	0.355	0.274	5e-10	NA	Hypermethylated in FP vs FN
cg22955778	0.590	0.136	0.455	5e-10	NA	Hypermethylated in FP vs FN
cg00945234	0.676	0.199	0.477	6e-10	NA	Hypermethylated in FP vs FN
cg19993219	0.822	0.502	0.321	6e-10	NA	Hypermethylated in FP vs FN
cg04236263	0.755	0.408	0.347	6e-10	NA	Hypermethylated in FP vs FN
cg06217230	0.836	0.462	0.374	6e-10	NA	Hypermethylated in FP vs FN
cg15765813	0.511	0.212	0.299	6e-10	NA	Hypermethylated in FP vs FN
cg18652721	0.724	0.259	0.465	6e-10	NA	Hypermethylated in FP vs FN
cg18936052	0.632	0.253	0.379	6e-10	FAM76A	Hypermethylated in FP vs FN
cg24811290	0.379	0.076	0.303	6e-10	NA	Hypermethylated in FP vs FN
cg00595237	0.754	0.263	0.491	6e-10	GATA4	Hypermethylated in FP vs FN
cg04635021	0.843	0.515	0.328	6e-10	NA	Hypermethylated in FP vs FN
cg07467854	0.795	0.459	0.336	6e-10	NA	Hypermethylated in FP vs FN
cg19827875	0.815	0.316	0.500	6e-10	NAV1	Hypermethylated in FP vs FN
cg00326842	0.504	0.151	0.352	6e-10	NA	Hypermethylated in FP vs FN
cg25487008	0.733	0.403	0.330	6e-10	NA	Hypermethylated in FP vs FN
cg15416179	0.473	0.172	0.301	6e-10	NA	Hypermethylated in FP vs FN
cg12468255	0.764	0.360	0.404	6e-10	NAV1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21546522	0.793	0.367	0.426	7e-10	NA	Hypermethylated in FP vs FN
cg03106852	0.838	0.534	0.304	7e-10	NA	Hypermethylated in FP vs FN
cg26759179	0.778	0.409	0.369	7e-10	NA	Hypermethylated in FP vs FN
cg09711399	0.718	0.410	0.308	7e-10	NA	Hypermethylated in FP vs FN
cg02187214	0.567	0.175	0.392	7e-10	FOXC2	Hypermethylated in FP vs FN
cg21546950	0.721	0.350	0.371	7e-10	NA	Hypermethylated in FP vs FN
cg13490227	0.802	0.468	0.334	7e-10	NA	Hypermethylated in FP vs FN
cg08148802	0.596	0.219	0.377	7e-10	NA	Hypermethylated in FP vs FN
cg15527674	0.823	0.494	0.330	7e-10	C11orf66	Hypermethylated in FP vs FN
cg06875255	0.722	0.364	0.359	7e-10	NA	Hypermethylated in FP vs FN
cg00039385	0.601	0.249	0.352	7e-10	SEMA6B	Hypermethylated in FP vs FN
cg05050858	0.775	0.381	0.394	7e-10	NA	Hypermethylated in FP vs FN
cg05817833	0.729	0.367	0.361	7e-10	NA	Hypermethylated in FP vs FN
cg06637330	0.747	0.275	0.472	7e-10	NA	Hypermethylated in FP vs FN
cg14064268	0.673	0.223	0.450	7e-10	NA	Hypermethylated in FP vs FN
cg01407254	0.828	0.342	0.486	7e-10	NA	Hypermethylated in FP vs FN
cg21687563	0.614	0.228	0.386	7e-10	NA	Hypermethylated in FP vs FN
cg05805326	0.753	0.363	0.390	8e-10	NA	Hypermethylated in FP vs FN
cg00454770	0.745	0.397	0.348	8e-10	ABLIM1	Hypermethylated in FP vs FN
cg11093939	0.826	0.522	0.304	8e-10	NA	Hypermethylated in FP vs FN
cg16554164	0.706	0.303	0.403	8e-10	NA	Hypermethylated in FP vs FN
cg17244980	0.658	0.283	0.375	8e-10	NA	Hypermethylated in FP vs FN
cg05915866	0.645	0.257	0.388	8e-10	NA	Hypermethylated in FP vs FN
cg08227353	0.621	0.216	0.405	8e-10	KAZALD1	Hypermethylated in FP vs FN
cg00674220	0.810	0.469	0.341	8e-10	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19164987	0.808	0.297	0.511	8e-10	NA	Hypermethylated in FP vs FN
cg01098320	0.790	0.293	0.498	8e-10	NA	Hypermethylated in FP vs FN
cg12895304	0.897	0.492	0.405	8e-10	NA	Hypermethylated in FP vs FN
cg16081096	0.764	0.370	0.394	8e-10	NA	Hypermethylated in FP vs FN
cg18843856	0.793	0.411	0.382	8e-10	NA	Hypermethylated in FP vs FN
cg07665929	0.844	0.529	0.315	8e-10	NA	Hypermethylated in FP vs FN
cg06623827	0.606	0.161	0.446	8e-10	DRD1	Hypermethylated in FP vs FN
cg22488259	0.791	0.384	0.407	8e-10	NAV1	Hypermethylated in FP vs FN
cg16991515	0.711	0.159	0.552	8e-10	HIST1H4I	Hypermethylated in FP vs FN
cg13023619	0.765	0.463	0.302	8e-10	NA	Hypermethylated in FP vs FN
cg25661792	0.755	0.467	0.288	8e-10	NA	Hypermethylated in FP vs FN
cg12160664	0.654	0.282	0.372	8e-10	OLFML3	Hypermethylated in FP vs FN
cg23336973	0.815	0.454	0.360	8e-10	NA	Hypermethylated in FP vs FN
cg00421221	0.630	0.331	0.299	8e-10	NA	Hypermethylated in FP vs FN
cg19241619	0.880	0.482	0.398	8e-10	NA	Hypermethylated in FP vs FN
cg01082498	0.540	0.109	0.431	9e-10	NA	Hypermethylated in FP vs FN
cg06212263	0.754	0.292	0.462	9e-10	NA	Hypermethylated in FP vs FN
cg13877974	0.785	0.287	0.498	9e-10	NAV1	Hypermethylated in FP vs FN
cg08760493	0.842	0.565	0.278	9e-10	NA	Hypermethylated in FP vs FN
cg15447913	0.810	0.332	0.478	9e-10	NA	Hypermethylated in FP vs FN
cg16523590	0.749	0.328	0.421	9e-10	NA	Hypermethylated in FP vs FN
cg10018519	0.603	0.191	0.412	9e-10	NA	Hypermethylated in FP vs FN
cg17310654	0.737	0.366	0.371	9e-10	NA	Hypermethylated in FP vs FN
cg04062218	0.756	0.405	0.351	9e-10	NA	Hypermethylated in FP vs FN
cg19480117	0.756	0.415	0.342	9e-10	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02722657	0.728	0.306	0.422	1e-09	RAPGEFL1	Hypermethylated in FP vs FN
cg26020878	0.779	0.505	0.274	1e-09	NA	Hypermethylated in FP vs FN
cg20588285	0.745	0.350	0.396	1e-09	NA	Hypermethylated in FP vs FN
cg00651497	0.708	0.251	0.457	1e-09	NA	Hypermethylated in FP vs FN
cg19894975	0.379	0.112	0.268	1e-09	NA	Hypermethylated in FP vs FN
cg06144675	0.853	0.547	0.306	1e-09	SEMA3A	Hypermethylated in FP vs FN
cg21546022	0.725	0.370	0.355	1e-09	NA	Hypermethylated in FP vs FN
cg10958362	0.737	0.302	0.435	1e-09	NA	Hypermethylated in FP vs FN
cg07402310	0.786	0.533	0.253	1e-09	NA	Hypermethylated in FP vs FN
cg21225667	0.807	0.471	0.336	1e-09	NA	Hypermethylated in FP vs FN
cg25167447	0.722	0.281	0.441	1e-09	NAV1	Hypermethylated in FP vs FN
cg10759590	0.563	0.286	0.277	1e-09	KHNYN_CBLN3	Hypermethylated in FP vs FN
cg11139446	0.592	0.295	0.297	1e-09	NA	Hypermethylated in FP vs FN
cg02538557	0.566	0.268	0.297	1e-09	NA	Hypermethylated in FP vs FN
cg15442800	0.754	0.311	0.443	1e-09	NA	Hypermethylated in FP vs FN
cg26824174	0.778	0.372	0.406	1e-09	NA	Hypermethylated in FP vs FN
cg03530983	0.821	0.445	0.376	1e-09	NA	Hypermethylated in FP vs FN
cg15771416	0.779	0.424	0.354	1e-09	NA	Hypermethylated in FP vs FN
cg06866187	0.774	0.358	0.417	1e-09	NA	Hypermethylated in FP vs FN
cg07605523	0.605	0.212	0.393	1e-09	NA	Hypermethylated in FP vs FN
cg04185382	0.783	0.387	0.396	1e-09	NA	Hypermethylated in FP vs FN
cg03066788	0.664	0.294	0.370	1e-09	NA	Hypermethylated in FP vs FN
cg18809102	0.683	0.325	0.358	1e-09	NA	Hypermethylated in FP vs FN
cg08820369	0.839	0.419	0.419	1e-09	NA	Hypermethylated in FP vs FN
cg04457069	0.849	0.354	0.495	1e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21394039	0.780	0.504	0.275	1e-09	NA	Hypermethylated in FP vs FN
cg18643029	0.496	0.235	0.261	1e-09	NA	Hypermethylated in FP vs FN
cg03861097	0.770	0.279	0.491	1e-09	NA	Hypermethylated in FP vs FN
cg03320170	0.510	0.181	0.329	1e-09	NA	Hypermethylated in FP vs FN
cg16059167	0.722	0.312	0.410	1e-09	NA	Hypermethylated in FP vs FN
cg24292703	0.792	0.403	0.389	1e-09	NA	Hypermethylated in FP vs FN
cg15808835	0.808	0.507	0.301	1e-09	NA	Hypermethylated in FP vs FN
cg04294888	0.613	0.193	0.420	1e-09	NA	Hypermethylated in FP vs FN
cg01919377	0.649	0.203	0.446	1e-09	NTF3	Hypermethylated in FP vs FN
cg24688343	0.777	0.465	0.312	1e-09	NA	Hypermethylated in FP vs FN
cg20079139	0.640	0.264	0.376	1e-09	NA	Hypermethylated in FP vs FN
cg22683038	0.614	0.158	0.457	1e-09	NA	Hypermethylated in FP vs FN
cg10180092	0.754	0.393	0.361	1e-09	NA	Hypermethylated in FP vs FN
cg01828733	0.817	0.424	0.394	1e-09	NAV1	Hypermethylated in FP vs FN
cg00856041	0.638	0.256	0.382	1e-09	NA	Hypermethylated in FP vs FN
cg19939773	0.665	0.354	0.311	1e-09	NA	Hypermethylated in FP vs FN
cg05021589	0.768	0.309	0.459	1e-09	LY86	Hypermethylated in FP vs FN
cg12583076	0.727	0.429	0.297	1e-09	NA	Hypermethylated in FP vs FN
cg19280785	0.645	0.320	0.325	1e-09	NA	Hypermethylated in FP vs FN
cg06271387	0.763	0.340	0.423	1e-09	NA	Hypermethylated in FP vs FN
cg11635029	0.851	0.409	0.442	1e-09	NA	Hypermethylated in FP vs FN
cg06813382	0.731	0.398	0.333	1e-09	NA	Hypermethylated in FP vs FN
cg16903735	0.650	0.164	0.486	1e-09	NA	Hypermethylated in FP vs FN
cg16006349	0.773	0.292	0.481	1e-09	NA	Hypermethylated in FP vs FN
cg25216696	0.727	0.271	0.456	1e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07195224	0.794	0.399	0.394	1e-09	AIM2	Hypermethylated in FP vs FN
cg16998564	0.755	0.352	0.404	1e-09	NA	Hypermethylated in FP vs FN
cg03765423	0.656	0.249	0.407	1e-09	NA	Hypermethylated in FP vs FN
cg26998850	0.643	0.222	0.421	2e-09	NA	Hypermethylated in FP vs FN
cg23893620	0.564	0.199	0.365	2e-09	KCNIP4	Hypermethylated in FP vs FN
cg05917419	0.680	0.267	0.413	2e-09	NA	Hypermethylated in FP vs FN
cg14064694	0.751	0.251	0.500	2e-09	HIST1H2BI	Hypermethylated in FP vs FN
cg01313904	0.690	0.181	0.508	2e-09	NA	Hypermethylated in FP vs FN
cg02347249	0.735	0.381	0.354	2e-09	NA	Hypermethylated in FP vs FN
cg17180631	0.532	0.161	0.372	2e-09	NAV1	Hypermethylated in FP vs FN
cg18465515	0.727	0.198	0.529	2e-09	HIST1H2BI	Hypermethylated in FP vs FN
cg24795614	0.716	0.451	0.265	2e-09	NA	Hypermethylated in FP vs FN
cg19201144	0.789	0.482	0.307	2e-09	NA	Hypermethylated in FP vs FN
cg14977875	0.553	0.189	0.364	2e-09	NA	Hypermethylated in FP vs FN
cg19317226	0.823	0.351	0.471	2e-09	NA	Hypermethylated in FP vs FN
cg12497581	0.696	0.343	0.353	2e-09	LFNG	Hypermethylated in FP vs FN
cg26528311	0.640	0.335	0.304	2e-09	NA	Hypermethylated in FP vs FN
cg02100602	0.611	0.196	0.415	2e-09	NA	Hypermethylated in FP vs FN
cg04854098	0.732	0.367	0.364	2e-09	NA	Hypermethylated in FP vs FN
cg25107522	0.764	0.477	0.286	2e-09	NA	Hypermethylated in FP vs FN
cg05379350	0.642	0.341	0.301	2e-09	GIT1	Hypermethylated in FP vs FN
cg05798126	0.827	0.539	0.288	2e-09	NA	Hypermethylated in FP vs FN
cg11189384	0.594	0.131	0.464	2e-09	NA	Hypermethylated in FP vs FN
cg07757358	0.692	0.268	0.425	2e-09	NA	Hypermethylated in FP vs FN
cg17910564	0.853	0.569	0.285	2e-09	VDAC3	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10512203	0.563	0.251	0.311	2e-09	NA	Hypermethylated in FP vs FN
cg22272282	0.744	0.214	0.530	2e-09	NA	Hypermethylated in FP vs FN
cg08205361	0.501	0.168	0.333	2e-09	NA	Hypermethylated in FP vs FN
cg19584674	0.576	0.270	0.306	2e-09	KHNYN_CBLN3	Hypermethylated in FP vs FN
cg14222474	0.801	0.423	0.378	2e-09	NA	Hypermethylated in FP vs FN
cg21269897	0.605	0.161	0.444	2e-09	HIST1H4I	Hypermethylated in FP vs FN
cg14018454	0.794	0.490	0.304	2e-09	NA	Hypermethylated in FP vs FN
cg23184252	0.677	0.253	0.423	2e-09	NA	Hypermethylated in FP vs FN
cg01980793	0.569	0.180	0.389	2e-09	NA	Hypermethylated in FP vs FN
cg08073667	0.838	0.371	0.467	2e-09	NA	Hypermethylated in FP vs FN
cg10765397	0.800	0.445	0.355	2e-09	NA	Hypermethylated in FP vs FN
cg18535283	0.698	0.425	0.273	2e-09	CYB5R3	Hypermethylated in FP vs FN
cg06212213	0.780	0.500	0.280	2e-09	NA	Hypermethylated in FP vs FN
cg05324789	0.705	0.304	0.401	2e-09	NA	Hypermethylated in FP vs FN
cg15310568	0.594	0.244	0.350	2e-09	MAP2	Hypermethylated in FP vs FN
cg14487356	0.714	0.317	0.397	2e-09	NA	Hypermethylated in FP vs FN
cg17537252	0.624	0.173	0.451	2e-09	ARHGEF3	Hypermethylated in FP vs FN
cg03309328	0.609	0.253	0.356	2e-09	NA	Hypermethylated in FP vs FN
cg02212836	0.693	0.272	0.421	2e-09	LY86	Hypermethylated in FP vs FN
cg04993130	0.554	0.230	0.324	2e-09	NA	Hypermethylated in FP vs FN
cg13745832	0.849	0.400	0.449	2e-09	NA	Hypermethylated in FP vs FN
cg01660630	0.547	0.180	0.367	2e-09	NA	Hypermethylated in FP vs FN
cg16051561	0.730	0.390	0.340	2e-09	NA	Hypermethylated in FP vs FN
cg18650219	0.755	0.306	0.448	2e-09	NA	Hypermethylated in FP vs FN
cg15600176	0.746	0.341	0.405	2e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15382568	0.580	0.281	0.300	2e-09	NA	Hypermethylated in FP vs FN
cg11608884	0.571	0.173	0.398	2e-09	NA	Hypermethylated in FP vs FN
cg20153322	0.705	0.401	0.304	2e-09	PXN	Hypermethylated in FP vs FN
cg13661703	0.858	0.445	0.412	2e-09	NA	Hypermethylated in FP vs FN
cg08666707	0.669	0.354	0.314	2e-09	NA	Hypermethylated in FP vs FN
cg05194102	0.893	0.443	0.450	2e-09	NA	Hypermethylated in FP vs FN
cg13842800	0.742	0.404	0.338	2e-09	NA	Hypermethylated in FP vs FN
cg04700215	0.886	0.629	0.257	2e-09	NA	Hypermethylated in FP vs FN
cg11854183	0.741	0.366	0.375	2e-09	NA	Hypermethylated in FP vs FN
cg22777979	0.440	0.124	0.316	2e-09	B3GAT1	Hypermethylated in FP vs FN
cg07362328	0.691	0.251	0.440	2e-09	NA	Hypermethylated in FP vs FN
cg27637521	0.588	0.157	0.431	2e-09	NA	Hypermethylated in FP vs FN
cg27422872	0.513	0.111	0.403	2e-09	NA	Hypermethylated in FP vs FN
cg14952949	0.541	0.205	0.336	2e-09	MYF5	Hypermethylated in FP vs FN
cg11958644	0.705	0.304	0.401	2e-09	NA	Hypermethylated in FP vs FN
cg08378932	0.699	0.405	0.294	2e-09	TM4SF4	Hypermethylated in FP vs FN
cg23886314	0.790	0.512	0.278	3e-09	NA	Hypermethylated in FP vs FN
cg02192855	0.745	0.208	0.537	3e-09	HIST1H2BI	Hypermethylated in FP vs FN
cg05974733	0.611	0.237	0.373	3e-09	NA	Hypermethylated in FP vs FN
cg08287940	0.865	0.578	0.286	3e-09	NA	Hypermethylated in FP vs FN
cg00310410	0.783	0.472	0.312	3e-09	NA	Hypermethylated in FP vs FN
cg00711291	0.851	0.559	0.292	3e-09	NA	Hypermethylated in FP vs FN
cg03763874	0.733	0.411	0.323	3e-09	NA	Hypermethylated in FP vs FN
cg14406727	0.736	0.339	0.397	3e-09	NA	Hypermethylated in FP vs FN
cg26222731	0.727	0.458	0.269	3e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00755751	0.736	0.384	0.351	3e-09	NA	Hypermethylated in FP vs FN
cg15644626	0.800	0.458	0.342	3e-09	NA	Hypermethylated in FP vs FN
cg02709139	0.709	0.264	0.445	3e-09	NA	Hypermethylated in FP vs FN
cg17467968	0.699	0.317	0.382	3e-09	NA	Hypermethylated in FP vs FN
cg01046511	0.776	0.515	0.261	3e-09	KDM6B	Hypermethylated in FP vs FN
cg24676514	0.531	0.133	0.398	3e-09	NA	Hypermethylated in FP vs FN
cg25367334	0.816	0.533	0.283	3e-09	NA	Hypermethylated in FP vs FN
cg20364574	0.823	0.403	0.420	3e-09	NA	Hypermethylated in FP vs FN
cg05852143	0.656	0.182	0.475	3e-09	NTF3	Hypermethylated in FP vs FN
cg06605053	0.713	0.308	0.404	3e-09	NA	Hypermethylated in FP vs FN
cg12457659	0.729	0.402	0.326	3e-09	NA	Hypermethylated in FP vs FN
cg23123731	0.785	0.420	0.366	3e-09	NA	Hypermethylated in FP vs FN
cg19190593	0.808	0.440	0.368	3e-09	LY86	Hypermethylated in FP vs FN
cg24860886	0.643	0.303	0.340	3e-09	GRHL3	Hypermethylated in FP vs FN
cg10279487	0.498	0.103	0.395	3e-09	NA	Hypermethylated in FP vs FN
cg00974944	0.825	0.444	0.381	3e-09	NA	Hypermethylated in FP vs FN
cg26448609	0.848	0.591	0.257	3e-09	NA	Hypermethylated in FP vs FN
cg16427420	0.693	0.332	0.361	3e-09	NA	Hypermethylated in FP vs FN
cg19851715	0.672	0.204	0.468	3e-09	HIST1H2BI	Hypermethylated in FP vs FN
cg15772924	0.793	0.269	0.524	3e-09	NA	Hypermethylated in FP vs FN
cg09192801	0.898	0.540	0.358	3e-09	ZDHHC17	Hypermethylated in FP vs FN
cg07866001	0.695	0.283	0.411	3e-09	NA	Hypermethylated in FP vs FN
cg03989480	0.716	0.270	0.446	3e-09	NA	Hypermethylated in FP vs FN
cg06580014	0.831	0.482	0.349	3e-09	NA	Hypermethylated in FP vs FN
cg05822532	0.738	0.220	0.517	3e-09	ELN	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00887848	0.642	0.291	0.351	3e-09	NA	Hypermethylated in FP vs FN
cg05726239	0.612	0.240	0.372	3e-09	NA	Hypermethylated in FP vs FN
cg16809460	0.684	0.196	0.488	3e-09	NA	Hypermethylated in FP vs FN
cg21039708	0.825	0.280	0.545	3e-09	OTX2OS1	Hypermethylated in FP vs FN
cg09626984	0.788	0.318	0.470	3e-09	NA	Hypermethylated in FP vs FN
cg26902647	0.816	0.518	0.298	3e-09	NA	Hypermethylated in FP vs FN
cg21571466	0.426	0.169	0.257	3e-09	TAGLN2	Hypermethylated in FP vs FN
cg23057870	0.710	0.321	0.390	3e-09	NA	Hypermethylated in FP vs FN
cg10019018	0.842	0.433	0.409	3e-09	NA	Hypermethylated in FP vs FN
cg20663495	0.586	0.259	0.326	3e-09	NA	Hypermethylated in FP vs FN
cg03098159	0.775	0.289	0.486	3e-09	NA	Hypermethylated in FP vs FN
cg23725027	0.706	0.376	0.330	3e-09	NA	Hypermethylated in FP vs FN
cg15890143	0.561	0.124	0.437	3e-09	NA	Hypermethylated in FP vs FN
cg13050716	0.585	0.262	0.322	3e-09	NA	Hypermethylated in FP vs FN
cg10508317	0.566	0.120	0.446	3e-09	NA	Hypermethylated in FP vs FN
cg13283635	0.597	0.249	0.347	3e-09	NA	Hypermethylated in FP vs FN
cg06471536	0.827	0.486	0.341	3e-09	NA	Hypermethylated in FP vs FN
cg23144063	0.643	0.298	0.345	3e-09	NA	Hypermethylated in FP vs FN
cg24000859	0.596	0.263	0.333	3e-09	NA	Hypermethylated in FP vs FN
cg10422816	0.771	0.401	0.371	3e-09	MSTN	Hypermethylated in FP vs FN
cg08828594	0.575	0.204	0.370	3e-09	NA	Hypermethylated in FP vs FN
cg02573551	0.732	0.476	0.256	3e-09	NA	Hypermethylated in FP vs FN
cg12877335	0.652	0.327	0.325	3e-09	NA	Hypermethylated in FP vs FN
cg06272045	0.816	0.451	0.365	3e-09	NA	Hypermethylated in FP vs FN
cg16962463	0.604	0.270	0.334	3e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23323203	0.574	0.298	0.276	3e-09	NA	Hypermethylated in FP vs FN
cg20415947	0.794	0.387	0.407	3e-09	NA	Hypermethylated in FP vs FN
cg05202347	0.804	0.462	0.342	3e-09	NA	Hypermethylated in FP vs FN
cg02276070	0.719	0.374	0.345	3e-09	ARSI	Hypermethylated in FP vs FN
cg11690884	0.490	0.234	0.256	3e-09	NA	Hypermethylated in FP vs FN
cg13933279	0.619	0.260	0.359	4e-09	NA	Hypermethylated in FP vs FN
cg27144115	0.624	0.260	0.364	4e-09	NA	Hypermethylated in FP vs FN
cg08161546	0.697	0.427	0.270	4e-09	ESR1	Hypermethylated in FP vs FN
cg04944536	0.782	0.358	0.424	4e-09	NA	Hypermethylated in FP vs FN
cg16023122	0.505	0.157	0.348	4e-09	NAV1	Hypermethylated in FP vs FN
cg25389863	0.813	0.476	0.337	4e-09	NA	Hypermethylated in FP vs FN
cg07810039	0.736	0.308	0.428	4e-09	NA	Hypermethylated in FP vs FN
cg03906016	0.880	0.537	0.343	4e-09	NA	Hypermethylated in FP vs FN
cg18232347	0.816	0.432	0.384	4e-09	NA	Hypermethylated in FP vs FN
cg19388273	0.724	0.460	0.264	4e-09	NA	Hypermethylated in FP vs FN
cg08134504	0.641	0.292	0.349	4e-09	NA	Hypermethylated in FP vs FN
cg14017402	0.575	0.277	0.298	4e-09	NA	Hypermethylated in FP vs FN
cg17795240	0.732	0.345	0.387	4e-09	NA	Hypermethylated in FP vs FN
cg18863156	0.568	0.129	0.439	4e-09	NA	Hypermethylated in FP vs FN
cg13790353	0.714	0.256	0.458	4e-09	CCDC83	Hypermethylated in FP vs FN
cg17314888	0.559	0.175	0.384	4e-09	ELN	Hypermethylated in FP vs FN
cg14405924	0.552	0.148	0.405	4e-09	NA	Hypermethylated in FP vs FN
cg20495370	0.652	0.321	0.331	4e-09	NA	Hypermethylated in FP vs FN
cg24667603	0.718	0.446	0.272	4e-09	NA	Hypermethylated in FP vs FN
cg22558825	0.494	0.168	0.326	4e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05941864	0.600	0.257	0.342	4e-09	NA	Hypermethylated in FP vs FN
cg26785370	0.757	0.488	0.270	4e-09	NA	Hypermethylated in FP vs FN
cg20686479	0.769	0.242	0.527	4e-09	NA	Hypermethylated in FP vs FN
cg17645695	0.762	0.309	0.453	4e-09	NA	Hypermethylated in FP vs FN
cg00223767	0.733	0.335	0.398	4e-09	NA	Hypermethylated in FP vs FN
cg08794763	0.856	0.583	0.273	4e-09	NA	Hypermethylated in FP vs FN
cg14066207	0.670	0.322	0.348	4e-09	NA	Hypermethylated in FP vs FN
cg12999932	0.584	0.305	0.278	4e-09	NA	Hypermethylated in FP vs FN
cg00095326	0.488	0.174	0.314	4e-09	NA	Hypermethylated in FP vs FN
cg04878072	0.570	0.187	0.383	4e-09	NA	Hypermethylated in FP vs FN
cg16530498	0.608	0.230	0.377	4e-09	HSD17B14	Hypermethylated in FP vs FN
cg06917772	0.777	0.412	0.365	4e-09	NA	Hypermethylated in FP vs FN
cg21791662	0.598	0.150	0.448	4e-09	NA	Hypermethylated in FP vs FN
cg04094225	0.717	0.393	0.325	4e-09	NA	Hypermethylated in FP vs FN
cg07816247	0.788	0.467	0.321	4e-09	NA	Hypermethylated in FP vs FN
cg26343958	0.727	0.308	0.419	4e-09	NA	Hypermethylated in FP vs FN
cg03962527	0.723	0.330	0.392	4e-09	ADD3	Hypermethylated in FP vs FN
cg01519094	0.514	0.212	0.302	4e-09	PKNOX2	Hypermethylated in FP vs FN
cg06773116	0.781	0.417	0.364	4e-09	KCNIP4	Hypermethylated in FP vs FN
cg11027058	0.630	0.098	0.533	4e-09	DYSF	Hypermethylated in FP vs FN
cg20731529	0.499	0.233	0.266	5e-09	NA	Hypermethylated in FP vs FN
cg16895672	0.623	0.276	0.347	5e-09	NA	Hypermethylated in FP vs FN
cg26814835	0.727	0.358	0.369	5e-09	NA	Hypermethylated in FP vs FN
cg02384661	0.598	0.199	0.399	5e-09	NA	Hypermethylated in FP vs FN
cg14982133	0.715	0.194	0.521	5e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19447966	0.793	0.366	0.427	5e-09	NA	Hypermethylated in FP vs FN
cg02599464	0.679	0.153	0.526	5e-09	HIST1H4I	Hypermethylated in FP vs FN
cg06787104	0.660	0.221	0.439	5e-09	NA	Hypermethylated in FP vs FN
cg06717615	0.777	0.414	0.363	5e-09	NA	Hypermethylated in FP vs FN
cg09975367	0.715	0.373	0.341	5e-09	NA	Hypermethylated in FP vs FN
cg00152946	0.760	0.276	0.484	5e-09	NA	Hypermethylated in FP vs FN
cg05310774	0.604	0.223	0.381	5e-09	NA	Hypermethylated in FP vs FN
cg09000779	0.692	0.307	0.384	5e-09	NA	Hypermethylated in FP vs FN
cg13546736	0.452	0.188	0.264	5e-09	MPDU1	Hypermethylated in FP vs FN
cg08235970	0.487	0.169	0.318	5e-09	PAX7	Hypermethylated in FP vs FN
cg19513744	0.682	0.254	0.428	5e-09	ARHGEF3	Hypermethylated in FP vs FN
cg01182430	0.897	0.540	0.358	5e-09	NA	Hypermethylated in FP vs FN
cg04483701	0.754	0.378	0.377	5e-09	NA	Hypermethylated in FP vs FN
cg23282585	0.700	0.196	0.504	5e-09	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg09663193	0.666	0.344	0.322	5e-09	MPDU1	Hypermethylated in FP vs FN
cg03364620	0.713	0.459	0.255	5e-09	NA	Hypermethylated in FP vs FN
cg23296652	0.855	0.435	0.420	5e-09	NA	Hypermethylated in FP vs FN
cg26605668	0.776	0.431	0.346	5e-09	NA	Hypermethylated in FP vs FN
cg10454127	0.624	0.316	0.308	5e-09	NA	Hypermethylated in FP vs FN
cg18109289	0.774	0.426	0.348	5e-09	NA	Hypermethylated in FP vs FN
cg00107630	0.561	0.258	0.302	6e-09	NA	Hypermethylated in FP vs FN
cg22020227	0.681	0.331	0.350	6e-09	OLFML3	Hypermethylated in FP vs FN
cg01074305	0.722	0.469	0.253	6e-09	NA	Hypermethylated in FP vs FN
cg02993070	0.801	0.460	0.341	6e-09	FERMT2	Hypermethylated in FP vs FN
cg01834776	0.492	0.224	0.268	6e-09	KHNYN_CBLN3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02725065	0.877	0.496	0.381	6e-09	NA	Hypermethylated in FP vs FN
cg26101942	0.826	0.467	0.359	6e-09	NA	Hypermethylated in FP vs FN
cg23219253	0.825	0.497	0.328	6e-09	NA	Hypermethylated in FP vs FN
cg25160605	0.796	0.498	0.298	6e-09	NA	Hypermethylated in FP vs FN
cg05382956	0.691	0.313	0.377	6e-09	NA	Hypermethylated in FP vs FN
cg17751684	0.853	0.569	0.284	6e-09	NA	Hypermethylated in FP vs FN
cg00651488	0.672	0.332	0.339	6e-09	NA	Hypermethylated in FP vs FN
cg01693423	0.865	0.567	0.298	6e-09	NA	Hypermethylated in FP vs FN
cg20492868	0.574	0.296	0.278	6e-09	NA	Hypermethylated in FP vs FN
cg11936643	0.737	0.285	0.452	6e-09	NA	Hypermethylated in FP vs FN
cg24530480	0.818	0.506	0.312	6e-09	NA	Hypermethylated in FP vs FN
cg09941601	0.774	0.481	0.292	6e-09	NA	Hypermethylated in FP vs FN
cg04687241	0.714	0.351	0.363	6e-09	NA	Hypermethylated in FP vs FN
cg18693345	0.696	0.254	0.442	6e-09	NA	Hypermethylated in FP vs FN
cg18025838	0.764	0.452	0.312	6e-09	NA	Hypermethylated in FP vs FN
cg01693138	0.722	0.342	0.380	6e-09	NA	Hypermethylated in FP vs FN
cg17374364	0.691	0.409	0.282	6e-09	NA	Hypermethylated in FP vs FN
cg07694735	0.792	0.528	0.264	6e-09	NA	Hypermethylated in FP vs FN
cg12349884	0.661	0.217	0.444	6e-09	HIST1H4I	Hypermethylated in FP vs FN
cg16884491	0.772	0.450	0.322	6e-09	NA	Hypermethylated in FP vs FN
cg12559119	0.672	0.315	0.357	6e-09	NA	Hypermethylated in FP vs FN
cg21198586	0.734	0.385	0.349	6e-09	NA	Hypermethylated in FP vs FN
cg08061598	0.799	0.542	0.257	6e-09	FYN	Hypermethylated in FP vs FN
cg03758514	0.663	0.150	0.513	6e-09	HIST1H2BI	Hypermethylated in FP vs FN
cg19029181	0.824	0.305	0.519	7e-09	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14140060	0.688	0.333	0.355	7e-09	NA	Hypermethylated in FP vs FN
cg11118690	0.759	0.469	0.290	7e-09	NA	Hypermethylated in FP vs FN
cg18220380	0.790	0.402	0.388	7e-09	NA	Hypermethylated in FP vs FN
cg14161165	0.856	0.473	0.384	7e-09	NA	Hypermethylated in FP vs FN
cg11854928	0.910	0.525	0.385	7e-09	NA	Hypermethylated in FP vs FN
cg00453735	0.793	0.496	0.297	7e-09	NA	Hypermethylated in FP vs FN
cg22731637	0.634	0.208	0.426	7e-09	NA	Hypermethylated in FP vs FN
cg23497020	0.568	0.201	0.366	7e-09	LIMA1	Hypermethylated in FP vs FN
cg05264446	0.527	0.121	0.406	7e-09	NA	Hypermethylated in FP vs FN
cg10244706	0.678	0.214	0.464	7e-09	NA	Hypermethylated in FP vs FN
cg24048338	0.741	0.401	0.340	7e-09	NA	Hypermethylated in FP vs FN
cg14696535	0.654	0.187	0.467	7e-09	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg07086945	0.521	0.232	0.290	7e-09	NA	Hypermethylated in FP vs FN
cg24670927	0.857	0.417	0.440	7e-09	PTPLAD1	Hypermethylated in FP vs FN
cg09534872	0.845	0.527	0.319	7e-09	NA	Hypermethylated in FP vs FN
cg21686890	0.473	0.130	0.343	7e-09	NA	Hypermethylated in FP vs FN
cg03465652	0.664	0.282	0.382	7e-09	NA	Hypermethylated in FP vs FN
cg08031967	0.567	0.270	0.297	7e-09	NA	Hypermethylated in FP vs FN
cg17382310	0.782	0.332	0.451	7e-09	SLC13A4	Hypermethylated in FP vs FN
cg15108047	0.767	0.435	0.332	7e-09	NA	Hypermethylated in FP vs FN
cg16795307	0.480	0.182	0.298	7e-09	STARD13	Hypermethylated in FP vs FN
cg00602811	0.684	0.287	0.397	7e-09	ZEB2	Hypermethylated in FP vs FN
cg00593462	0.800	0.446	0.354	7e-09	NA	Hypermethylated in FP vs FN
cg05369142	0.606	0.119	0.487	7e-09	NA	Hypermethylated in FP vs FN
cg19839325	0.597	0.235	0.362	7e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12614090	0.491	0.185	0.306	7e-09	ABLIM1	Hypermethylated in FP vs FN
cg27441486	0.872	0.442	0.430	7e-09	NAV1	Hypermethylated in FP vs FN
cg00871980	0.648	0.329	0.320	7e-09	NA	Hypermethylated in FP vs FN
cg18321354	0.678	0.344	0.334	7e-09	CARD11	Hypermethylated in FP vs FN
cg09792881	0.539	0.106	0.433	8e-09	NA	Hypermethylated in FP vs FN
cg14467415	0.795	0.508	0.287	8e-09	NA	Hypermethylated in FP vs FN
cg24526596	0.654	0.337	0.317	8e-09	NA	Hypermethylated in FP vs FN
cg14764476	0.798	0.472	0.326	8e-09	NA	Hypermethylated in FP vs FN
cg02139827	0.836	0.504	0.333	8e-09	NA	Hypermethylated in FP vs FN
cg12555810	0.774	0.471	0.303	8e-09	NA	Hypermethylated in FP vs FN
cg12603560	0.601	0.268	0.333	8e-09	NA	Hypermethylated in FP vs FN
cg03173528	0.849	0.451	0.398	8e-09	NA	Hypermethylated in FP vs FN
cg14077965	0.540	0.191	0.348	8e-09	FERMT2	Hypermethylated in FP vs FN
cg01261206	0.830	0.462	0.369	8e-09	NA	Hypermethylated in FP vs FN
cg10644206	0.811	0.494	0.317	8e-09	NA	Hypermethylated in FP vs FN
cg11179081	0.622	0.171	0.451	8e-09	NA	Hypermethylated in FP vs FN
cg07508304	0.740	0.456	0.284	9e-09	NA	Hypermethylated in FP vs FN
cg16387532	0.795	0.509	0.286	9e-09	NA	Hypermethylated in FP vs FN
cg05156805	0.653	0.396	0.258	9e-09	AIFM3	Hypermethylated in FP vs FN
cg08774207	0.564	0.145	0.419	9e-09	NA	Hypermethylated in FP vs FN
cg05829046	0.654	0.367	0.287	9e-09	LFNG	Hypermethylated in FP vs FN
cg10621924	0.789	0.350	0.439	9e-09	NA	Hypermethylated in FP vs FN
cg23786209	0.703	0.405	0.298	9e-09	NA	Hypermethylated in FP vs FN
cg01634146	0.844	0.459	0.386	9e-09	NA	Hypermethylated in FP vs FN
cg10343367	0.781	0.348	0.433	9e-09	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01059100	0.703	0.310	0.393	9e-09	PYCARD	Hypermethylated in FP vs FN
cg22917314	0.802	0.392	0.410	9e-09	NA	Hypermethylated in FP vs FN
cg15742515	0.583	0.209	0.374	9e-09	NA	Hypermethylated in FP vs FN
cg17069313	0.776	0.289	0.488	9e-09	NA	Hypermethylated in FP vs FN
cg07536847	0.321	0.059	0.261	9e-09	PAX7	Hypermethylated in FP vs FN
cg02940562	0.627	0.277	0.350	9e-09	NA	Hypermethylated in FP vs FN
cg05790451	0.747	0.234	0.513	9e-09	NA	Hypermethylated in FP vs FN
cg08092318	0.727	0.334	0.393	9e-09	NA	Hypermethylated in FP vs FN
cg07818978	0.818	0.465	0.354	9e-09	NA	Hypermethylated in FP vs FN
cg05978154	0.862	0.493	0.369	9e-09	NA	Hypermethylated in FP vs FN
cg24631482	0.697	0.210	0.488	9e-09	NA	Hypermethylated in FP vs FN
cg01206705	0.841	0.436	0.405	9e-09	PTPLAD1	Hypermethylated in FP vs FN
cg01208908	0.473	0.100	0.373	9e-09	NA	Hypermethylated in FP vs FN
cg13176979	0.718	0.392	0.326	9e-09	HMG3	Hypermethylated in FP vs FN
cg19251656	0.657	0.297	0.360	1e-08	NA	Hypermethylated in FP vs FN
cg23546506	0.737	0.310	0.427	1e-08	NA	Hypermethylated in FP vs FN
cg16684661	0.513	0.187	0.326	1e-08	NA	Hypermethylated in FP vs FN
cg18610958	0.642	0.127	0.515	1e-08	DYSF	Hypermethylated in FP vs FN
cg02385840	0.498	0.135	0.364	1e-08	NA	Hypermethylated in FP vs FN
cg04110902	0.809	0.438	0.372	1e-08	NA	Hypermethylated in FP vs FN
cg24830876	0.625	0.147	0.479	1e-08	ARHGEF3	Hypermethylated in FP vs FN
cg19517841	0.832	0.477	0.356	1e-08	NA	Hypermethylated in FP vs FN
cg00183067	0.687	0.420	0.267	1e-08	NA	Hypermethylated in FP vs FN
cg09100017	0.637	0.257	0.380	1e-08	NA	Hypermethylated in FP vs FN
cg07201717	0.738	0.343	0.395	1e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21208682	0.519	0.217	0.303	1e-08	NA	Hypermethylated in FP vs FN
cg24646414	0.834	0.386	0.448	1e-08	NA	Hypermethylated in FP vs FN
cg22234962	0.646	0.307	0.339	1e-08	NA	Hypermethylated in FP vs FN
cg00216655	0.760	0.467	0.292	1e-08	NA	Hypermethylated in FP vs FN
cg05134426	0.801	0.416	0.385	1e-08	ZNF608	Hypermethylated in FP vs FN
cg01694451	0.789	0.486	0.303	1e-08	SYT8	Hypermethylated in FP vs FN
cg24909660	0.574	0.207	0.367	1e-08	NA	Hypermethylated in FP vs FN
cg15274294	0.612	0.268	0.344	1e-08	NA	Hypermethylated in FP vs FN
cg04806571	0.791	0.397	0.395	1e-08	NA	Hypermethylated in FP vs FN
cg23715104	0.712	0.326	0.386	1e-08	SLC13A4	Hypermethylated in FP vs FN
cg22902289	0.642	0.331	0.311	1e-08	LFNG	Hypermethylated in FP vs FN
cg08455089	0.762	0.487	0.276	1e-08	NA	Hypermethylated in FP vs FN
cg03295626	0.905	0.600	0.306	1e-08	NA	Hypermethylated in FP vs FN
cg11377213	0.796	0.468	0.328	1e-08	NA	Hypermethylated in FP vs FN
cg25292638	0.774	0.431	0.343	1e-08	NA	Hypermethylated in FP vs FN
cg01440796	0.715	0.345	0.370	1e-08	NA	Hypermethylated in FP vs FN
cg13257498	0.740	0.358	0.381	1e-08	NA	Hypermethylated in FP vs FN
cg01119452	0.791	0.461	0.330	1e-08	NA	Hypermethylated in FP vs FN
cg05155047	0.771	0.459	0.312	1e-08	NA	Hypermethylated in FP vs FN
cg15994467	0.583	0.309	0.274	1e-08	NA	Hypermethylated in FP vs FN
cg00088691	0.872	0.457	0.414	1e-08	NA	Hypermethylated in FP vs FN
cg20509080	0.712	0.220	0.492	1e-08	ARHGEF3	Hypermethylated in FP vs FN
cg21845633	0.665	0.316	0.349	1e-08	TMEM88	Hypermethylated in FP vs FN
cg03359540	0.831	0.467	0.364	1e-08	NA	Hypermethylated in FP vs FN
cg23831898	0.745	0.294	0.451	1e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00567703	0.768	0.280	0.487	1e-08	NA	Hypermethylated in FP vs FN
cg23834919	0.808	0.458	0.350	1e-08	NA	Hypermethylated in FP vs FN
cg14143728	0.757	0.448	0.309	1e-08	NA	Hypermethylated in FP vs FN
cg13758780	0.771	0.405	0.365	1e-08	NA	Hypermethylated in FP vs FN
cg15974053	0.655	0.254	0.402	1e-08	HSD17B14	Hypermethylated in FP vs FN
cg10663765	0.769	0.416	0.353	1e-08	NA	Hypermethylated in FP vs FN
cg00560072	0.783	0.470	0.313	1e-08	NA	Hypermethylated in FP vs FN
cg10546065	0.525	0.228	0.296	1e-08	NA	Hypermethylated in FP vs FN
cg03317811	0.676	0.209	0.468	1e-08	NA	Hypermethylated in FP vs FN
cg14264773	0.758	0.370	0.387	1e-08	LEFTY1	Hypermethylated in FP vs FN
cg15540341	0.825	0.496	0.329	1e-08	NA	Hypermethylated in FP vs FN
cg25888386	0.729	0.354	0.375	1e-08	NA	Hypermethylated in FP vs FN
cg15491102	0.778	0.503	0.275	1e-08	NA	Hypermethylated in FP vs FN
cg12013321	0.562	0.264	0.298	1e-08	GCLC	Hypermethylated in FP vs FN
cg03674127	0.572	0.103	0.469	1e-08	DYSF	Hypermethylated in FP vs FN
cg12874792	0.878	0.499	0.379	1e-08	NA	Hypermethylated in FP vs FN
cg21281951	0.698	0.201	0.497	1e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg12204258	0.760	0.379	0.381	1e-08	NA	Hypermethylated in FP vs FN
cg05377949	0.760	0.351	0.409	1e-08	NA	Hypermethylated in FP vs FN
cg10634136	0.661	0.338	0.323	1e-08	FZD7	Hypermethylated in FP vs FN
cg04804648	0.538	0.127	0.411	1e-08	NA	Hypermethylated in FP vs FN
cg27558693	0.526	0.182	0.344	1e-08	NA	Hypermethylated in FP vs FN
cg09646593	0.852	0.529	0.323	1e-08	NA	Hypermethylated in FP vs FN
cg07599786	0.585	0.244	0.341	1e-08	NA	Hypermethylated in FP vs FN
cg26924496	0.504	0.098	0.406	1e-08	NTF3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19762747	0.449	0.187	0.261	1e-08	CRX	Hypermethylated in FP vs FN
cg11009590	0.770	0.418	0.352	1e-08	NA	Hypermethylated in FP vs FN
cg13808936	0.776	0.437	0.339	1e-08	NA	Hypermethylated in FP vs FN
cg05208416	0.619	0.343	0.276	1e-08	NA	Hypermethylated in FP vs FN
cg25607321	0.419	0.103	0.316	1e-08	NAV2	Hypermethylated in FP vs FN
cg24748769	0.704	0.234	0.470	1e-08	NA	Hypermethylated in FP vs FN
cg07525420	0.405	0.153	0.252	1e-08	NA	Hypermethylated in FP vs FN
cg16071713	0.471	0.220	0.251	1e-08	C21orf96	Hypermethylated in FP vs FN
cg24931713	0.787	0.449	0.337	1e-08	NA	Hypermethylated in FP vs FN
cg11996592	0.834	0.555	0.279	1e-08	NA	Hypermethylated in FP vs FN
cg21541159	0.699	0.373	0.326	1e-08	NA	Hypermethylated in FP vs FN
cg22127309	0.739	0.474	0.265	1e-08	NA	Hypermethylated in FP vs FN
cg05269784	0.689	0.360	0.329	1e-08	NA	Hypermethylated in FP vs FN
cg10593400	0.810	0.417	0.393	1e-08	DDAH1	Hypermethylated in FP vs FN
cg10864794	0.822	0.424	0.398	1e-08	NA	Hypermethylated in FP vs FN
cg23344257	0.423	0.086	0.336	1e-08	RBMS3	Hypermethylated in FP vs FN
cg27409974	0.831	0.503	0.328	1e-08	NA	Hypermethylated in FP vs FN
cg14041855	0.738	0.303	0.435	2e-08	NA	Hypermethylated in FP vs FN
cg07072704	0.636	0.241	0.395	2e-08	NA	Hypermethylated in FP vs FN
cg27030482	0.700	0.299	0.401	2e-08	NA	Hypermethylated in FP vs FN
cg02085660	0.664	0.372	0.292	2e-08	NA	Hypermethylated in FP vs FN
cg18696900	0.641	0.285	0.356	2e-08	FERMT2	Hypermethylated in FP vs FN
cg18610978	0.875	0.605	0.270	2e-08	LOC151162	Hypermethylated in FP vs FN
cg23233200	0.752	0.204	0.548	2e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg07141504	0.522	0.175	0.347	2e-08	LOC100131551	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27543538	0.636	0.309	0.327	2e-08	NA	Hypermethylated in FP vs FN
cg25054821	0.847	0.449	0.398	2e-08	NA	Hypermethylated in FP vs FN
cg16636756	0.484	0.213	0.271	2e-08	NA	Hypermethylated in FP vs FN
cg09624466	0.833	0.345	0.488	2e-08	OTX2OS1	Hypermethylated in FP vs FN
cg08976995	0.770	0.333	0.437	2e-08	NA	Hypermethylated in FP vs FN
cg16608018	0.608	0.226	0.383	2e-08	NA	Hypermethylated in FP vs FN
cg07461837	0.683	0.431	0.253	2e-08	PYCARD	Hypermethylated in FP vs FN
cg10512745	0.663	0.120	0.543	2e-08	NA	Hypermethylated in FP vs FN
cg13978347	0.834	0.402	0.432	2e-08	NA	Hypermethylated in FP vs FN
cg25347264	0.586	0.142	0.444	2e-08	NTF3	Hypermethylated in FP vs FN
cg16352830	0.735	0.327	0.408	2e-08	NA	Hypermethylated in FP vs FN
cg27200630	0.603	0.221	0.382	2e-08	NA	Hypermethylated in FP vs FN
cg18067847	0.610	0.178	0.433	2e-08	DYSF	Hypermethylated in FP vs FN
cg00912738	0.753	0.366	0.387	2e-08	NA	Hypermethylated in FP vs FN
cg16705777	0.806	0.525	0.281	2e-08	NA	Hypermethylated in FP vs FN
cg05544807	0.656	0.338	0.318	2e-08	DNMT3A	Hypermethylated in FP vs FN
cg08208317	0.586	0.220	0.365	2e-08	NA	Hypermethylated in FP vs FN
cg11807040	0.765	0.449	0.316	2e-08	NA	Hypermethylated in FP vs FN
cg23566503	0.722	0.287	0.435	2e-08	NNAT	Hypermethylated in FP vs FN
cg14273822	0.720	0.237	0.483	2e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg23815825	0.722	0.325	0.398	2e-08	NA	Hypermethylated in FP vs FN
cg07519485	0.687	0.435	0.252	2e-08	NA	Hypermethylated in FP vs FN
cg10278915	0.835	0.450	0.385	2e-08	NA	Hypermethylated in FP vs FN
cg15411034	0.800	0.468	0.332	2e-08	NA	Hypermethylated in FP vs FN
cg25938803	0.828	0.516	0.312	2e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02353814	0.928	0.576	0.352	2e-08	NA	Hypermethylated in FP vs FN
cg01493678	0.764	0.420	0.344	2e-08	HLA-DOB	Hypermethylated in FP vs FN
cg00465247	0.743	0.409	0.334	2e-08	NA	Hypermethylated in FP vs FN
cg18566883	0.757	0.405	0.352	2e-08	NA	Hypermethylated in FP vs FN
cg15992347	0.532	0.193	0.339	2e-08	CCDC83	Hypermethylated in FP vs FN
cg12446088	0.800	0.486	0.314	2e-08	NA	Hypermethylated in FP vs FN
cg15952840	0.760	0.388	0.371	2e-08	NA	Hypermethylated in FP vs FN
cg19420129	0.621	0.259	0.362	2e-08	NA	Hypermethylated in FP vs FN
cg21301440	0.521	0.200	0.321	2e-08	CYGB	Hypermethylated in FP vs FN
cg00089823	0.477	0.160	0.317	2e-08	NA	Hypermethylated in FP vs FN
cg11172682	0.803	0.524	0.279	2e-08	NA	Hypermethylated in FP vs FN
cg14613164	0.825	0.497	0.329	2e-08	NA	Hypermethylated in FP vs FN
cg18399183	0.550	0.299	0.251	2e-08	METTL7A	Hypermethylated in FP vs FN
cg26135388	0.729	0.345	0.385	2e-08	NA	Hypermethylated in FP vs FN
cg01782711	0.753	0.419	0.334	2e-08	NA	Hypermethylated in FP vs FN
cg24250374	0.775	0.389	0.386	2e-08	NA	Hypermethylated in FP vs FN
cg09641077	0.695	0.216	0.480	2e-08	ARHGEF3	Hypermethylated in FP vs FN
cg16874930	0.604	0.268	0.337	2e-08	NA	Hypermethylated in FP vs FN
cg08065733	0.647	0.354	0.293	2e-08	NA	Hypermethylated in FP vs FN
cg04273299	0.759	0.401	0.359	2e-08	NA	Hypermethylated in FP vs FN
cg23561979	0.736	0.295	0.441	2e-08	NA	Hypermethylated in FP vs FN
cg12737938	0.622	0.269	0.353	2e-08	NA	Hypermethylated in FP vs FN
cg02718078	0.760	0.344	0.415	2e-08	NA	Hypermethylated in FP vs FN
cg07138437	0.715	0.337	0.378	2e-08	NA	Hypermethylated in FP vs FN
cg07541559	0.705	0.357	0.348	2e-08	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07879671	0.656	0.286	0.370	2e-08	NA	Hypermethylated in FP vs FN
cg02119693	0.747	0.419	0.327	2e-08	NA	Hypermethylated in FP vs FN
cg26950947	0.846	0.491	0.355	2e-08	NA	Hypermethylated in FP vs FN
cg16606347	0.721	0.381	0.340	2e-08	NA	Hypermethylated in FP vs FN
cg16650073	0.654	0.293	0.361	2e-08	NA	Hypermethylated in FP vs FN
cg23477348	0.627	0.304	0.324	2e-08	NA	Hypermethylated in FP vs FN
cg10604373	0.720	0.304	0.416	2e-08	NA	Hypermethylated in FP vs FN
cg00476653	0.828	0.536	0.293	2e-08	NA	Hypermethylated in FP vs FN
cg00036011	0.758	0.231	0.528	2e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg15605858	0.816	0.301	0.516	2e-08	NA	Hypermethylated in FP vs FN
cg10500737	0.650	0.315	0.335	2e-08	C21orf34	Hypermethylated in FP vs FN
cg23304023	0.599	0.205	0.394	2e-08	NA	Hypermethylated in FP vs FN
cg27340749	0.522	0.162	0.361	2e-08	TREX1	Hypermethylated in FP vs FN
cg15155463	0.641	0.237	0.403	2e-08	DYSF	Hypermethylated in FP vs FN
cg21521518	0.584	0.261	0.323	2e-08	RASL11B	Hypermethylated in FP vs FN
cg08223003	0.716	0.429	0.288	2e-08	NA	Hypermethylated in FP vs FN
cg05928537	0.688	0.429	0.259	2e-08	NA	Hypermethylated in FP vs FN
cg15390816	0.774	0.446	0.328	2e-08	NA	Hypermethylated in FP vs FN
cg23226688	0.766	0.498	0.268	2e-08	NA	Hypermethylated in FP vs FN
cg09692335	0.367	0.097	0.270	2e-08	TREX1	Hypermethylated in FP vs FN
cg20597619	0.809	0.456	0.353	2e-08	NA	Hypermethylated in FP vs FN
cg23310345	0.770	0.398	0.372	2e-08	NA	Hypermethylated in FP vs FN
cg04678623	0.706	0.319	0.387	2e-08	NA	Hypermethylated in FP vs FN
cg03967266	0.799	0.444	0.355	2e-08	NA	Hypermethylated in FP vs FN
cg21190644	0.796	0.528	0.267	2e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15317049	0.763	0.444	0.319	2e-08	NA	Hypermethylated in FP vs FN
cg20095124	0.690	0.193	0.497	2e-08	NA	Hypermethylated in FP vs FN
cg16554941	0.643	0.304	0.339	2e-08	NA	Hypermethylated in FP vs FN
cg21609804	0.838	0.513	0.325	2e-08	NA	Hypermethylated in FP vs FN
cg19589277	0.776	0.387	0.389	2e-08	NA	Hypermethylated in FP vs FN
cg25048985	0.763	0.378	0.386	2e-08	NA	Hypermethylated in FP vs FN
cg03170698	0.629	0.144	0.485	2e-08	DYSF	Hypermethylated in FP vs FN
cg11756095	0.478	0.145	0.333	2e-08	NA	Hypermethylated in FP vs FN
cg05577437	0.828	0.458	0.370	2e-08	NA	Hypermethylated in FP vs FN
cg13817905	0.815	0.563	0.252	2e-08	NA	Hypermethylated in FP vs FN
cg21406967	0.595	0.254	0.341	2e-08	TRIP6	Hypermethylated in FP vs FN
cg09048129	0.665	0.279	0.386	2e-08	USP2	Hypermethylated in FP vs FN
cg24812143	0.796	0.351	0.444	2e-08	NA	Hypermethylated in FP vs FN
cg14401746	0.598	0.247	0.350	2e-08	NA	Hypermethylated in FP vs FN
cg18677603	0.477	0.188	0.289	2e-08	LOC100131551	Hypermethylated in FP vs FN
cg01525498	0.772	0.375	0.397	2e-08	NA	Hypermethylated in FP vs FN
cg14750948	0.799	0.281	0.518	2e-08	NA	Hypermethylated in FP vs FN
cg12669271	0.657	0.324	0.333	2e-08	NA	Hypermethylated in FP vs FN
cg11816841	0.669	0.125	0.544	2e-08	NA	Hypermethylated in FP vs FN
cg11174847	0.816	0.366	0.450	2e-08	NNAT	Hypermethylated in FP vs FN
cg02148270	0.771	0.422	0.349	2e-08	NA	Hypermethylated in FP vs FN
cg09969043	0.512	0.174	0.338	2e-08	NR2F2	Hypermethylated in FP vs FN
cg08540829	0.759	0.467	0.292	2e-08	MIR609	Hypermethylated in FP vs FN
cg16639860	0.852	0.554	0.298	3e-08	KCNIP4	Hypermethylated in FP vs FN
cg01941278	0.817	0.521	0.295	3e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03301084	0.606	0.213	0.392	3e-08	NA	Hypermethylated in FP vs FN
cg07556789	0.783	0.372	0.412	3e-08	NA	Hypermethylated in FP vs FN
cg27108984	0.763	0.347	0.417	3e-08	NA	Hypermethylated in FP vs FN
cg25909064	0.703	0.346	0.356	3e-08	NA	Hypermethylated in FP vs FN
cg02867216	0.835	0.486	0.349	3e-08	NA	Hypermethylated in FP vs FN
cg07018404	0.621	0.234	0.388	3e-08	NA	Hypermethylated in FP vs FN
cg13804575	0.667	0.394	0.274	3e-08	NA	Hypermethylated in FP vs FN
cg20510012	0.776	0.507	0.268	3e-08	PHLDB1	Hypermethylated in FP vs FN
cg07892412	0.827	0.492	0.335	3e-08	NA	Hypermethylated in FP vs FN
cg17742459	0.810	0.545	0.265	3e-08	NA	Hypermethylated in FP vs FN
cg22700246	0.806	0.471	0.335	3e-08	NA	Hypermethylated in FP vs FN
cg11762306	0.479	0.178	0.301	3e-08	NA	Hypermethylated in FP vs FN
cg07691686	0.714	0.433	0.281	3e-08	NA	Hypermethylated in FP vs FN
cg16598600	0.530	0.146	0.384	3e-08	NA	Hypermethylated in FP vs FN
cg01591938	0.731	0.266	0.464	3e-08	NA	Hypermethylated in FP vs FN
cg07229001	0.743	0.400	0.343	3e-08	NA	Hypermethylated in FP vs FN
cg11863854	0.762	0.436	0.326	3e-08	NA	Hypermethylated in FP vs FN
cg21919719	0.477	0.209	0.267	3e-08	NA	Hypermethylated in FP vs FN
cg10588135	0.434	0.180	0.255	3e-08	NA	Hypermethylated in FP vs FN
cg18910298	0.626	0.299	0.327	3e-08	NA	Hypermethylated in FP vs FN
cg15543045	0.743	0.400	0.343	3e-08	NA	Hypermethylated in FP vs FN
cg09269945	0.763	0.468	0.295	3e-08	NA	Hypermethylated in FP vs FN
cg00059399	0.521	0.203	0.318	3e-08	NA	Hypermethylated in FP vs FN
cg14157578	0.780	0.444	0.336	3e-08	NA	Hypermethylated in FP vs FN
cg10688297	0.697	0.281	0.416	3e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05783135	0.795	0.401	0.394	3e-08	NA	Hypermethylated in FP vs FN
cg06293872	0.729	0.404	0.324	3e-08	NA	Hypermethylated in FP vs FN
cg01332683	0.671	0.337	0.335	3e-08	NA	Hypermethylated in FP vs FN
cg11149163	0.674	0.315	0.360	3e-08	NA	Hypermethylated in FP vs FN
cg18539086	0.775	0.468	0.307	3e-08	NA	Hypermethylated in FP vs FN
cg23097402	0.712	0.282	0.431	3e-08	NA	Hypermethylated in FP vs FN
cg08010865	0.650	0.283	0.367	3e-08	NA	Hypermethylated in FP vs FN
cg06465011	0.696	0.363	0.333	3e-08	NA	Hypermethylated in FP vs FN
cg05693530	0.684	0.431	0.253	3e-08	NA	Hypermethylated in FP vs FN
cg25027367	0.705	0.407	0.298	3e-08	NA	Hypermethylated in FP vs FN
cg20618695	0.529	0.208	0.321	3e-08	NA	Hypermethylated in FP vs FN
cg10319942	0.865	0.509	0.356	3e-08	NA	Hypermethylated in FP vs FN
cg01804925	0.660	0.286	0.374	3e-08	NA	Hypermethylated in FP vs FN
cg13916885	0.461	0.175	0.286	3e-08	NA	Hypermethylated in FP vs FN
cg19269749	0.751	0.425	0.327	3e-08	NA	Hypermethylated in FP vs FN
cg01792229	0.842	0.571	0.272	3e-08	NA	Hypermethylated in FP vs FN
cg26995224	0.689	0.267	0.422	3e-08	NA	Hypermethylated in FP vs FN
cg15153383	0.423	0.122	0.301	3e-08	NA	Hypermethylated in FP vs FN
cg13694343	0.616	0.224	0.392	3e-08	NA	Hypermethylated in FP vs FN
cg20133730	0.570	0.196	0.374	3e-08	PDK2	Hypermethylated in FP vs FN
cg07191030	0.648	0.315	0.333	3e-08	NA	Hypermethylated in FP vs FN
cg12756396	0.564	0.152	0.413	3e-08	NA	Hypermethylated in FP vs FN
cg04603812	0.484	0.094	0.390	3e-08	NA	Hypermethylated in FP vs FN
cg25406989	0.640	0.230	0.411	3e-08	NA	Hypermethylated in FP vs FN
cg03639671	0.652	0.247	0.406	3e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19805953	0.449	0.179	0.270	3e-08	EMP3	Hypermethylated in FP vs FN
cg22655696	0.600	0.190	0.410	3e-08	NA	Hypermethylated in FP vs FN
cg09278789	0.874	0.551	0.323	3e-08	NA	Hypermethylated in FP vs FN
cg26411747	0.628	0.265	0.363	3e-08	NA	Hypermethylated in FP vs FN
cg26874282	0.736	0.362	0.374	3e-08	NA	Hypermethylated in FP vs FN
cg04777726	0.668	0.209	0.459	3e-08	HSD17B14	Hypermethylated in FP vs FN
cg07260003	0.722	0.435	0.287	3e-08	NA	Hypermethylated in FP vs FN
cg22864689	0.675	0.318	0.357	3e-08	NA	Hypermethylated in FP vs FN
cg25322632	0.796	0.522	0.274	3e-08	NA	Hypermethylated in FP vs FN
cg26293590	0.663	0.365	0.298	3e-08	NA	Hypermethylated in FP vs FN
cg02372856	0.828	0.485	0.342	3e-08	NA	Hypermethylated in FP vs FN
cg09309208	0.799	0.395	0.404	3e-08	NA	Hypermethylated in FP vs FN
cg01563704	0.733	0.208	0.525	3e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg05317605	0.657	0.249	0.408	3e-08	SEMA6B	Hypermethylated in FP vs FN
cg07296387	0.738	0.356	0.382	3e-08	NA	Hypermethylated in FP vs FN
cg13393917	0.790	0.517	0.273	3e-08	OLFML3	Hypermethylated in FP vs FN
cg22711792	0.608	0.163	0.445	3e-08	NA	Hypermethylated in FP vs FN
cg15308737	0.837	0.543	0.294	3e-08	NA	Hypermethylated in FP vs FN
cg02275035	0.675	0.354	0.321	3e-08	NA	Hypermethylated in FP vs FN
cg21122199	0.691	0.329	0.362	3e-08	C17orf64	Hypermethylated in FP vs FN
cg03972071	0.741	0.236	0.505	3e-08	NA	Hypermethylated in FP vs FN
cg11328436	0.706	0.290	0.417	3e-08	NA	Hypermethylated in FP vs FN
cg25492583	0.575	0.222	0.353	3e-08	NA	Hypermethylated in FP vs FN
cg25142028	0.724	0.443	0.280	3e-08	NA	Hypermethylated in FP vs FN
cg05214460	0.493	0.210	0.283	3e-08	ADD3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17314520	0.764	0.461	0.303	3e-08	NA	Hypermethylated in FP vs FN
cg08329931	0.656	0.366	0.291	3e-08	NA	Hypermethylated in FP vs FN
cg13148544	0.712	0.306	0.406	4e-08	NA	Hypermethylated in FP vs FN
cg00462951	0.699	0.284	0.414	4e-08	NA	Hypermethylated in FP vs FN
cg26949612	0.701	0.368	0.332	4e-08	NA	Hypermethylated in FP vs FN
cg07391913	0.771	0.414	0.357	4e-08	NA	Hypermethylated in FP vs FN
cg09790628	0.844	0.570	0.275	4e-08	NA	Hypermethylated in FP vs FN
cg05258123	0.790	0.508	0.281	4e-08	NA	Hypermethylated in FP vs FN
cg02727484	0.680	0.372	0.308	4e-08	NA	Hypermethylated in FP vs FN
cg06746744	0.706	0.370	0.336	4e-08	SEMA6B	Hypermethylated in FP vs FN
cg25555549	0.826	0.455	0.372	4e-08	NA	Hypermethylated in FP vs FN
cg08993878	0.830	0.526	0.305	4e-08	NA	Hypermethylated in FP vs FN
cg05783185	0.505	0.228	0.277	4e-08	NA	Hypermethylated in FP vs FN
cg04399631	0.753	0.375	0.378	4e-08	NA	Hypermethylated in FP vs FN
cg03221025	0.696	0.414	0.282	4e-08	NA	Hypermethylated in FP vs FN
cg26180015	0.464	0.199	0.265	4e-08	NA	Hypermethylated in FP vs FN
cg16955336	0.511	0.249	0.262	4e-08	NA	Hypermethylated in FP vs FN
cg13284741	0.718	0.355	0.363	4e-08	NA	Hypermethylated in FP vs FN
cg20632462	0.885	0.624	0.261	4e-08	NA	Hypermethylated in FP vs FN
cg18425032	0.800	0.507	0.293	4e-08	NA	Hypermethylated in FP vs FN
cg04694991	0.782	0.411	0.371	4e-08	NA	Hypermethylated in FP vs FN
cg09318508	0.575	0.151	0.424	4e-08	DYSF	Hypermethylated in FP vs FN
cg14469436	0.660	0.375	0.285	4e-08	NA	Hypermethylated in FP vs FN
cg08847173	0.876	0.348	0.528	4e-08	NA	Hypermethylated in FP vs FN
cg03517250	0.743	0.462	0.281	4e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11469594	0.647	0.314	0.334	4e-08	NA	Hypermethylated in FP vs FN
cg16909660	0.786	0.449	0.336	4e-08	NA	Hypermethylated in FP vs FN
cg07888884	0.679	0.370	0.309	4e-08	NA	Hypermethylated in FP vs FN
cg05027533	0.849	0.563	0.286	4e-08	NA	Hypermethylated in FP vs FN
cg13276580	0.661	0.319	0.342	4e-08	NA	Hypermethylated in FP vs FN
cg09789721	0.722	0.405	0.317	4e-08	NA	Hypermethylated in FP vs FN
cg19062108	0.577	0.265	0.312	4e-08	NA	Hypermethylated in FP vs FN
cg27294837	0.613	0.277	0.337	4e-08	POU4F1	Hypermethylated in FP vs FN
cg14677296	0.669	0.398	0.270	4e-08	NA	Hypermethylated in FP vs FN
cg09664215	0.849	0.439	0.410	4e-08	NA	Hypermethylated in FP vs FN
cg18252424	0.801	0.443	0.357	4e-08	NA	Hypermethylated in FP vs FN
cg02844593	0.764	0.491	0.272	4e-08	NA	Hypermethylated in FP vs FN
cg13724379	0.503	0.098	0.406	4e-08	NA	Hypermethylated in FP vs FN
cg04931216	0.558	0.161	0.397	4e-08	NA	Hypermethylated in FP vs FN
cg06159340	0.739	0.316	0.423	4e-08	CTF1	Hypermethylated in FP vs FN
cg11767757	0.590	0.213	0.377	4e-08	NCRNA00114	Hypermethylated in FP vs FN
cg10866445	0.813	0.516	0.297	4e-08	NA	Hypermethylated in FP vs FN
cg26551865	0.624	0.331	0.293	4e-08	NA	Hypermethylated in FP vs FN
cg17163767	0.570	0.315	0.255	4e-08	NA	Hypermethylated in FP vs FN
cg02854937	0.565	0.301	0.264	4e-08	NA	Hypermethylated in FP vs FN
cg16331674	0.835	0.470	0.365	4e-08	NA	Hypermethylated in FP vs FN
cg19199590	0.737	0.477	0.260	4e-08	LRRN4CL	Hypermethylated in FP vs FN
cg17288471	0.544	0.267	0.277	4e-08	NA	Hypermethylated in FP vs FN
cg10570941	0.689	0.332	0.357	4e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg14128315	0.731	0.466	0.266	4e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25864762	0.763	0.376	0.386	4e-08	NA	Hypermethylated in FP vs FN
cg03441710	0.823	0.492	0.331	4e-08	NA	Hypermethylated in FP vs FN
cg02161478	0.694	0.251	0.444	4e-08	OTX2OS1	Hypermethylated in FP vs FN
cg03053456	0.698	0.391	0.307	4e-08	NA	Hypermethylated in FP vs FN
cg13448468	0.753	0.440	0.313	4e-08	NA	Hypermethylated in FP vs FN
cg18773617	0.880	0.514	0.366	4e-08	NA	Hypermethylated in FP vs FN
cg25540854	0.796	0.481	0.315	4e-08	NA	Hypermethylated in FP vs FN
cg19457909	0.834	0.539	0.295	4e-08	NA	Hypermethylated in FP vs FN
cg05388880	0.782	0.376	0.406	4e-08	NA	Hypermethylated in FP vs FN
cg10012530	0.783	0.530	0.253	4e-08	NA	Hypermethylated in FP vs FN
cg13279476	0.629	0.316	0.313	4e-08	NA	Hypermethylated in FP vs FN
cg03018496	0.712	0.316	0.396	4e-08	NR2F2	Hypermethylated in FP vs FN
cg14740554	0.663	0.304	0.360	4e-08	NA	Hypermethylated in FP vs FN
cg13120096	0.823	0.514	0.309	4e-08	NA	Hypermethylated in FP vs FN
cg06577223	0.714	0.313	0.401	4e-08	NA	Hypermethylated in FP vs FN
cg00845245	0.770	0.463	0.307	4e-08	NA	Hypermethylated in FP vs FN
cg12729800	0.848	0.579	0.269	5e-08	NA	Hypermethylated in FP vs FN
cg04502852	0.746	0.436	0.310	5e-08	NA	Hypermethylated in FP vs FN
cg25066772	0.588	0.276	0.312	5e-08	NA	Hypermethylated in FP vs FN
cg20011352	0.442	0.130	0.311	5e-08	NA	Hypermethylated in FP vs FN
cg04838832	0.557	0.255	0.301	5e-08	NA	Hypermethylated in FP vs FN
cg10072850	0.635	0.126	0.509	5e-08	NA	Hypermethylated in FP vs FN
cg11120695	0.606	0.276	0.329	5e-08	NA	Hypermethylated in FP vs FN
cg22960449	0.769	0.498	0.271	5e-08	NA	Hypermethylated in FP vs FN
cg02390515	0.713	0.386	0.327	5e-08	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07825369	0.788	0.492	0.295	5e-08	NA	Hypermethylated in FP vs FN
cg15305511	0.587	0.324	0.263	5e-08	EVC2_EVC	Hypermethylated in FP vs FN
cg03185622	0.660	0.278	0.382	5e-08	NA	Hypermethylated in FP vs FN
cg04959572	0.652	0.363	0.289	5e-08	NA	Hypermethylated in FP vs FN
cg21629500	0.747	0.257	0.489	5e-08	NA	Hypermethylated in FP vs FN
cg26778630	0.620	0.211	0.409	5e-08	NA	Hypermethylated in FP vs FN
cg00863716	0.676	0.325	0.351	5e-08	AKR1C2	Hypermethylated in FP vs FN
cg25451249	0.696	0.242	0.455	5e-08	LOC100126784	Hypermethylated in FP vs FN
cg21550785	0.668	0.385	0.284	5e-08	NA	Hypermethylated in FP vs FN
cg23493020	0.727	0.380	0.347	5e-08	NA	Hypermethylated in FP vs FN
cg12646804	0.639	0.254	0.385	5e-08	NA	Hypermethylated in FP vs FN
cg19548649	0.778	0.381	0.397	5e-08	SLC13A4	Hypermethylated in FP vs FN
cg03570636	0.631	0.210	0.421	5e-08	NA	Hypermethylated in FP vs FN
cg10642330	0.749	0.301	0.448	5e-08	NA	Hypermethylated in FP vs FN
cg25272655	0.411	0.133	0.278	5e-08	HIST3H2BB	Hypermethylated in FP vs FN
cg02284800	0.755	0.503	0.252	5e-08	NA	Hypermethylated in FP vs FN
cg05108467	0.657	0.250	0.407	5e-08	NR2F2	Hypermethylated in FP vs FN
cg04945557	0.680	0.342	0.338	5e-08	LFNG	Hypermethylated in FP vs FN
cg05820959	0.528	0.273	0.255	5e-08	NA	Hypermethylated in FP vs FN
cg11300568	0.743	0.390	0.354	5e-08	NA	Hypermethylated in FP vs FN
cg13656878	0.774	0.478	0.296	5e-08	NA	Hypermethylated in FP vs FN
cg06492744	0.636	0.214	0.422	5e-08	SIPA1	Hypermethylated in FP vs FN
cg24252656	0.785	0.451	0.334	5e-08	KCNIP4	Hypermethylated in FP vs FN
cg16427033	0.850	0.452	0.398	5e-08	NA	Hypermethylated in FP vs FN
cg04551619	0.874	0.592	0.282	5e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21818807	0.873	0.481	0.392	5e-08	NA	Hypermethylated in FP vs FN
cg21183664	0.498	0.220	0.278	5e-08	NA	Hypermethylated in FP vs FN
cg02459416	0.668	0.318	0.349	5e-08	TMEM88	Hypermethylated in FP vs FN
cg18947209	0.644	0.384	0.259	5e-08	NA	Hypermethylated in FP vs FN
cg13836098	0.762	0.273	0.489	5e-08	HIST1H3E	Hypermethylated in FP vs FN
cg20129082	0.731	0.226	0.506	5e-08	LOC100126784	Hypermethylated in FP vs FN
cg02832905	0.893	0.529	0.363	5e-08	NA	Hypermethylated in FP vs FN
cg10024501	0.802	0.493	0.309	5e-08	NA	Hypermethylated in FP vs FN
cg04850017	0.588	0.255	0.333	5e-08	NA	Hypermethylated in FP vs FN
cg07266431	0.714	0.328	0.387	5e-08	NA	Hypermethylated in FP vs FN
cg14377596	0.782	0.252	0.530	5e-08	NAV1	Hypermethylated in FP vs FN
cg11958060	0.810	0.353	0.458	5e-08	NA	Hypermethylated in FP vs FN
cg11958080	0.365	0.114	0.251	5e-08	NA	Hypermethylated in FP vs FN
cg22846611	0.720	0.360	0.360	5e-08	LPIN3	Hypermethylated in FP vs FN
cg23887149	0.729	0.436	0.293	5e-08	NA	Hypermethylated in FP vs FN
cg00698685	0.530	0.149	0.381	5e-08	DRD1	Hypermethylated in FP vs FN
cg20992180	0.583	0.325	0.258	5e-08	FOLR1	Hypermethylated in FP vs FN
cg20367852	0.519	0.130	0.388	6e-08	NA	Hypermethylated in FP vs FN
cg06131879	0.639	0.254	0.386	6e-08	NA	Hypermethylated in FP vs FN
cg02077702	0.802	0.515	0.287	6e-08	ISLR	Hypermethylated in FP vs FN
cg11731890	0.756	0.266	0.490	6e-08	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg19071452	0.638	0.371	0.266	6e-08	NMI	Hypermethylated in FP vs FN
cg16871763	0.796	0.343	0.453	6e-08	NA	Hypermethylated in FP vs FN
cg16205958	0.776	0.421	0.355	6e-08	NA	Hypermethylated in FP vs FN
cg20826165	0.835	0.555	0.281	6e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22088248	0.750	0.333	0.417	6e-08	NA	Hypermethylated in FP vs FN
cg15864491	0.385	0.119	0.266	6e-08	TBC1D8	Hypermethylated in FP vs FN
cg13243168	0.557	0.289	0.267	6e-08	NA	Hypermethylated in FP vs FN
cg13708635	0.792	0.358	0.434	6e-08	NNAT	Hypermethylated in FP vs FN
cg07837085	0.770	0.453	0.317	6e-08	SLAMF7	Hypermethylated in FP vs FN
cg11598935	0.757	0.421	0.336	6e-08	NA	Hypermethylated in FP vs FN
cg07360076	0.379	0.107	0.273	6e-08	FGFR3	Hypermethylated in FP vs FN
cg26611328	0.581	0.317	0.264	6e-08	NA	Hypermethylated in FP vs FN
cg14504768	0.841	0.546	0.295	6e-08	NA	Hypermethylated in FP vs FN
cg08794157	0.426	0.151	0.275	6e-08	PMP22	Hypermethylated in FP vs FN
cg26029997	0.565	0.148	0.417	6e-08	TREX1	Hypermethylated in FP vs FN
cg25245161	0.736	0.468	0.268	6e-08	NA	Hypermethylated in FP vs FN
cg02927327	0.578	0.268	0.310	6e-08	NA	Hypermethylated in FP vs FN
cg17780207	0.688	0.389	0.299	6e-08	NA	Hypermethylated in FP vs FN
cg24870096	0.817	0.560	0.257	6e-08	PROP1	Hypermethylated in FP vs FN
cg07103093	0.583	0.172	0.411	6e-08	NA	Hypermethylated in FP vs FN
cg03719978	0.713	0.320	0.393	6e-08	TMEM88	Hypermethylated in FP vs FN
cg19898448	0.729	0.356	0.374	6e-08	NA	Hypermethylated in FP vs FN
cg03174507	0.733	0.335	0.398	6e-08	NA	Hypermethylated in FP vs FN
cg03225093	0.645	0.255	0.390	6e-08	NA	Hypermethylated in FP vs FN
cg07044115	0.798	0.462	0.336	6e-08	NA	Hypermethylated in FP vs FN
cg00317837	0.555	0.252	0.303	6e-08	NA	Hypermethylated in FP vs FN
cg22860963	0.626	0.323	0.303	6e-08	NA	Hypermethylated in FP vs FN
cg25336900	0.713	0.447	0.266	6e-08	NA	Hypermethylated in FP vs FN
cg10884544	0.509	0.255	0.253	6e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10605246	0.793	0.536	0.256	6e-08	HILS1	Hypermethylated in FP vs FN
cg25395034	0.788	0.346	0.442	6e-08	NA	Hypermethylated in FP vs FN
cg10693390	0.611	0.349	0.262	6e-08	NA	Hypermethylated in FP vs FN
cg00328729	0.754	0.441	0.313	6e-08	NA	Hypermethylated in FP vs FN
cg00578638	0.678	0.212	0.465	7e-08	RAPGEFL1	Hypermethylated in FP vs FN
cg13316625	0.859	0.538	0.321	7e-08	NOS1	Hypermethylated in FP vs FN
cg25076408	0.816	0.509	0.307	7e-08	TULP4	Hypermethylated in FP vs FN
cg06983765	0.812	0.477	0.334	7e-08	NA	Hypermethylated in FP vs FN
cg08887742	0.801	0.463	0.338	7e-08	NA	Hypermethylated in FP vs FN
cg26276014	0.680	0.376	0.304	7e-08	CUBN	Hypermethylated in FP vs FN
cg06081306	0.524	0.146	0.378	7e-08	NA	Hypermethylated in FP vs FN
cg09451188	0.776	0.480	0.296	7e-08	NA	Hypermethylated in FP vs FN
cg11175150	0.637	0.363	0.274	7e-08	NA	Hypermethylated in FP vs FN
cg19856705	0.768	0.350	0.418	7e-08	NA	Hypermethylated in FP vs FN
cg13944468	0.721	0.380	0.341	7e-08	NA	Hypermethylated in FP vs FN
cg20341251	0.546	0.290	0.257	7e-08	NA	Hypermethylated in FP vs FN
cg06704518	0.822	0.362	0.461	7e-08	NA	Hypermethylated in FP vs FN
cg03270929	0.559	0.160	0.399	7e-08	ALS2CL	Hypermethylated in FP vs FN
cg03345454	0.726	0.330	0.396	7e-08	FZD7	Hypermethylated in FP vs FN
cg04339613	0.444	0.094	0.350	7e-08	NA	Hypermethylated in FP vs FN
cg01534527	0.763	0.476	0.287	7e-08	NA	Hypermethylated in FP vs FN
cg04840051	0.770	0.500	0.270	7e-08	NA	Hypermethylated in FP vs FN
cg00829845	0.560	0.203	0.357	7e-08	NA	Hypermethylated in FP vs FN
cg01477861	0.809	0.523	0.286	7e-08	NA	Hypermethylated in FP vs FN
cg02909790	0.732	0.235	0.497	7e-08	HIST1H3G	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19476529	0.797	0.478	0.320	7e-08	NA	Hypermethylated in FP vs FN
cg12656291	0.690	0.322	0.368	7e-08	NA	Hypermethylated in FP vs FN
cg19433021	0.761	0.484	0.277	7e-08	NFYB	Hypermethylated in FP vs FN
cg16072884	0.721	0.450	0.271	7e-08	NA	Hypermethylated in FP vs FN
cg19455322	0.736	0.215	0.520	7e-08	ALS2CL	Hypermethylated in FP vs FN
cg13633756	0.492	0.227	0.265	7e-08	EMP3	Hypermethylated in FP vs FN
cg03257743	0.588	0.280	0.308	7e-08	NA	Hypermethylated in FP vs FN
cg26190890	0.605	0.258	0.347	7e-08	NA	Hypermethylated in FP vs FN
cg25461775	0.782	0.438	0.344	7e-08	NA	Hypermethylated in FP vs FN
cg21969795	0.822	0.435	0.387	7e-08	NA	Hypermethylated in FP vs FN
cg17974684	0.694	0.231	0.463	7e-08	NA	Hypermethylated in FP vs FN
cg22825230	0.648	0.309	0.339	7e-08	NA	Hypermethylated in FP vs FN
cg06439941	0.799	0.443	0.356	7e-08	GNG11	Hypermethylated in FP vs FN
cg04413853	0.769	0.429	0.340	7e-08	C17orf64	Hypermethylated in FP vs FN
cg04880278	0.808	0.490	0.318	7e-08	NA	Hypermethylated in FP vs FN
cg02550308	0.770	0.446	0.325	7e-08	NA	Hypermethylated in FP vs FN
cg09035930	0.811	0.466	0.344	7e-08	NA	Hypermethylated in FP vs FN
cg19430473	0.692	0.320	0.371	8e-08	NA	Hypermethylated in FP vs FN
cg23335916	0.838	0.563	0.275	8e-08	NA	Hypermethylated in FP vs FN
cg26253663	0.723	0.382	0.342	8e-08	NA	Hypermethylated in FP vs FN
cg26348226	0.583	0.326	0.256	8e-08	ECE1	Hypermethylated in FP vs FN
cg03055021	0.739	0.452	0.287	8e-08	NA	Hypermethylated in FP vs FN
cg14985548	0.869	0.582	0.287	8e-08	NA	Hypermethylated in FP vs FN
cg21379004	0.746	0.265	0.481	8e-08	ALS2CL	Hypermethylated in FP vs FN
cg11346718	0.732	0.388	0.344	8e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19612114	0.843	0.527	0.316	8e-08	NA	Hypermethylated in FP vs FN
cg04117404	0.734	0.365	0.368	8e-08	NA	Hypermethylated in FP vs FN
cg22679014	0.735	0.425	0.310	8e-08	NA	Hypermethylated in FP vs FN
cg00135888	0.534	0.238	0.296	8e-08	MIR130A	Hypermethylated in FP vs FN
cg18273412	0.744	0.480	0.264	8e-08	NA	Hypermethylated in FP vs FN
cg04869122	0.841	0.411	0.429	8e-08	NA	Hypermethylated in FP vs FN
cg14948230	0.776	0.488	0.289	8e-08	NA	Hypermethylated in FP vs FN
cg02909329	0.691	0.263	0.428	8e-08	NA	Hypermethylated in FP vs FN
cg03101936	0.665	0.409	0.256	8e-08	NA	Hypermethylated in FP vs FN
cg00538370	0.565	0.309	0.257	8e-08	NA	Hypermethylated in FP vs FN
cg25962605	0.751	0.387	0.364	8e-08	NNAT	Hypermethylated in FP vs FN
cg24110540	0.539	0.272	0.268	9e-08	NA	Hypermethylated in FP vs FN
cg03158400	0.492	0.113	0.379	9e-08	NA	Hypermethylated in FP vs FN
cg01413522	0.792	0.413	0.379	9e-08	NA	Hypermethylated in FP vs FN
cg16081609	0.798	0.496	0.302	9e-08	NA	Hypermethylated in FP vs FN
cg02353916	0.759	0.488	0.271	9e-08	NA	Hypermethylated in FP vs FN
cg05656360	0.753	0.482	0.271	9e-08	NA	Hypermethylated in FP vs FN
cg06675784	0.482	0.158	0.324	9e-08	NA	Hypermethylated in FP vs FN
cg02768162	0.499	0.242	0.257	9e-08	TMEM119	Hypermethylated in FP vs FN
cg27604101	0.437	0.171	0.265	9e-08	NA	Hypermethylated in FP vs FN
cg07986058	0.514	0.200	0.314	9e-08	NA	Hypermethylated in FP vs FN
cg09179211	0.659	0.272	0.387	9e-08	NA	Hypermethylated in FP vs FN
cg09501372	0.636	0.270	0.366	9e-08	NA	Hypermethylated in FP vs FN
cg11195298	0.462	0.207	0.255	9e-08	NA	Hypermethylated in FP vs FN
cg16497945	0.835	0.556	0.280	9e-08	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14833933	0.705	0.436	0.268	9e-08	CAPN3	Hypermethylated in FP vs FN
cg26270832	0.805	0.541	0.264	9e-08	NA	Hypermethylated in FP vs FN
cg21738963	0.807	0.414	0.393	9e-08	NA	Hypermethylated in FP vs FN
cg04928129	0.488	0.157	0.330	9e-08	NA	Hypermethylated in FP vs FN
cg18640250	0.787	0.355	0.433	9e-08	NA	Hypermethylated in FP vs FN
cg00237391	0.509	0.138	0.371	9e-08	DEF6	Hypermethylated in FP vs FN
cg19303748	0.441	0.167	0.274	9e-08	TSPAN4	Hypermethylated in FP vs FN
cg20770175	0.646	0.305	0.342	9e-08	NA	Hypermethylated in FP vs FN
cg08029299	0.802	0.485	0.317	9e-08	NA	Hypermethylated in FP vs FN
cg18449964	0.633	0.204	0.429	9e-08	NA	Hypermethylated in FP vs FN
cg08906194	0.603	0.225	0.379	9e-08	NA	Hypermethylated in FP vs FN
cg25020286	0.497	0.131	0.365	9e-08	PAX7	Hypermethylated in FP vs FN
cg09773238	0.683	0.325	0.359	9e-08	NA	Hypermethylated in FP vs FN
cg12976582	0.617	0.237	0.380	1e-07	HYAL2	Hypermethylated in FP vs FN
cg12200412	0.615	0.245	0.369	1e-07	NA	Hypermethylated in FP vs FN
cg06838879	0.787	0.494	0.293	1e-07	NA	Hypermethylated in FP vs FN
cg02243207	0.811	0.482	0.329	1e-07	NA	Hypermethylated in FP vs FN
cg05645440	0.791	0.442	0.349	1e-07	NA	Hypermethylated in FP vs FN
cg10225488	0.635	0.297	0.338	1e-07	NA	Hypermethylated in FP vs FN
cg25020570	0.719	0.418	0.301	1e-07	NA	Hypermethylated in FP vs FN
cg13916459	0.691	0.255	0.436	1e-07	ALX1	Hypermethylated in FP vs FN
cg07889505	0.656	0.264	0.392	1e-07	NA	Hypermethylated in FP vs FN
cg17817532	0.659	0.348	0.310	1e-07	NA	Hypermethylated in FP vs FN
cg27478863	0.459	0.205	0.254	1e-07	NA	Hypermethylated in FP vs FN
cg16283158	0.853	0.522	0.331	1e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13130022	0.781	0.410	0.371	1e-07	NA	Hypermethylated in FP vs FN
cg21572719	0.874	0.604	0.270	1e-07	CNR1	Hypermethylated in FP vs FN
cg08308801	0.822	0.410	0.412	1e-07	NA	Hypermethylated in FP vs FN
cg26749543	0.766	0.508	0.258	1e-07	NA	Hypermethylated in FP vs FN
cg20309975	0.827	0.576	0.251	1e-07	NA	Hypermethylated in FP vs FN
cg00782188	0.831	0.578	0.253	1e-07	NA	Hypermethylated in FP vs FN
cg19024700	0.762	0.364	0.398	1e-07	HSD17B14	Hypermethylated in FP vs FN
cg03720617	0.474	0.208	0.266	1e-07	NA	Hypermethylated in FP vs FN
cg25012961	0.794	0.486	0.307	1e-07	NA	Hypermethylated in FP vs FN
cg20965469	0.782	0.465	0.318	1e-07	NA	Hypermethylated in FP vs FN
cg12131208	0.711	0.315	0.396	1e-07	C17orf64	Hypermethylated in FP vs FN
cg10474881	0.703	0.246	0.458	1e-07	NA	Hypermethylated in FP vs FN
cg18930354	0.657	0.261	0.396	1e-07	NA	Hypermethylated in FP vs FN
cg14947411	0.860	0.514	0.346	1e-07	NA	Hypermethylated in FP vs FN
cg04943368	0.728	0.278	0.450	1e-07	NA	Hypermethylated in FP vs FN
cg23280999	0.586	0.294	0.293	1e-07	NA	Hypermethylated in FP vs FN
cg14208102	0.621	0.252	0.370	1e-07	TREX1	Hypermethylated in FP vs FN
cg23614979	0.454	0.112	0.341	1e-07	NAV2	Hypermethylated in FP vs FN
cg14270220	0.536	0.100	0.436	1e-07	NA	Hypermethylated in FP vs FN
cg03628820	0.824	0.550	0.274	1e-07	NA	Hypermethylated in FP vs FN
cg07478501	0.774	0.438	0.337	1e-07	KANK2	Hypermethylated in FP vs FN
cg10763374	0.756	0.455	0.302	1e-07	BMI1	Hypermethylated in FP vs FN
cg01825295	0.845	0.339	0.506	1e-07	NA	Hypermethylated in FP vs FN
cg00409309	0.746	0.454	0.291	1e-07	NA	Hypermethylated in FP vs FN
cg02386665	0.869	0.618	0.251	1e-07	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00054472	0.593	0.213	0.380	1e-07	NA	Hypermethylated in FP vs FN
cg24037813	0.590	0.253	0.337	1e-07	NA	Hypermethylated in FP vs FN
cg07078467	0.825	0.473	0.352	1e-07	NA	Hypermethylated in FP vs FN
cg18319533	0.649	0.365	0.284	1e-07	NA	Hypermethylated in FP vs FN
cg07244354	0.459	0.132	0.327	1e-07	NA	Hypermethylated in FP vs FN
cg08480996	0.771	0.416	0.354	1e-07	NA	Hypermethylated in FP vs FN
cg02193650	0.630	0.145	0.484	1e-07	NA	Hypermethylated in FP vs FN
cg24890716	0.848	0.531	0.317	1e-07	NA	Hypermethylated in FP vs FN
cg19893473	0.869	0.592	0.277	1e-07	NA	Hypermethylated in FP vs FN
cg04636269	0.640	0.233	0.407	1e-07	NA	Hypermethylated in FP vs FN
cg06346667	0.697	0.296	0.401	1e-07	NA	Hypermethylated in FP vs FN
cg24012925	0.577	0.296	0.281	1e-07	NA	Hypermethylated in FP vs FN
cg14326472	0.799	0.505	0.295	1e-07	NA	Hypermethylated in FP vs FN
cg04066021	0.692	0.357	0.336	1e-07	NA	Hypermethylated in FP vs FN
cg00863893	0.732	0.271	0.462	1e-07	NA	Hypermethylated in FP vs FN
cg00232500	0.768	0.447	0.320	1e-07	FREM1	Hypermethylated in FP vs FN
cg02077216	0.812	0.447	0.365	1e-07	NA	Hypermethylated in FP vs FN
cg19869443	0.578	0.248	0.330	1e-07	SAMD13	Hypermethylated in FP vs FN
cg19172575	0.860	0.503	0.357	1e-07	NA	Hypermethylated in FP vs FN
cg02486086	0.655	0.211	0.443	1e-07	NA	Hypermethylated in FP vs FN
cg14255337	0.783	0.517	0.266	1e-07	NA	Hypermethylated in FP vs FN
cg11743000	0.777	0.527	0.251	1e-07	NA	Hypermethylated in FP vs FN
cg09723979	0.744	0.322	0.423	1e-07	LOC100126784	Hypermethylated in FP vs FN
cg16441259	0.796	0.389	0.406	1e-07	NA	Hypermethylated in FP vs FN
cg23045991	0.646	0.355	0.291	1e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06200634	0.595	0.335	0.261	1e-07	H2AFX	Hypermethylated in FP vs FN
cg19130973	0.664	0.317	0.347	1e-07	NA	Hypermethylated in FP vs FN
cg24775327	0.811	0.476	0.335	1e-07	NA	Hypermethylated in FP vs FN
cg14423881	0.689	0.410	0.279	1e-07	NA	Hypermethylated in FP vs FN
cg27239280	0.566	0.214	0.352	1e-07	CTF1	Hypermethylated in FP vs FN
cg27651243	0.617	0.194	0.423	1e-07	NA	Hypermethylated in FP vs FN
cg03445151	0.805	0.436	0.369	1e-07	NA	Hypermethylated in FP vs FN
cg08423562	0.474	0.188	0.286	1e-07	NA	Hypermethylated in FP vs FN
cg18813035	0.858	0.559	0.298	1e-07	NA	Hypermethylated in FP vs FN
cg20000602	0.676	0.318	0.358	1e-07	NA	Hypermethylated in FP vs FN
cg07165066	0.744	0.374	0.370	1e-07	NA	Hypermethylated in FP vs FN
cg17745628	0.645	0.370	0.275	1e-07	NA	Hypermethylated in FP vs FN
cg03919694	0.540	0.098	0.442	1e-07	NAV2	Hypermethylated in FP vs FN
cg07503658	0.861	0.577	0.285	1e-07	NA	Hypermethylated in FP vs FN
cg07279281	0.645	0.160	0.484	1e-07	ALS2CL	Hypermethylated in FP vs FN
cg26779147	0.591	0.316	0.276	1e-07	NA	Hypermethylated in FP vs FN
cg03219768	0.877	0.589	0.288	1e-07	NA	Hypermethylated in FP vs FN
cg18869404	0.648	0.233	0.415	1e-07	NA	Hypermethylated in FP vs FN
cg11571304	0.444	0.137	0.306	1e-07	TRIM38	Hypermethylated in FP vs FN
cg02977443	0.682	0.395	0.287	1e-07	NA	Hypermethylated in FP vs FN
cg14855378	0.814	0.536	0.277	1e-07	ARSI	Hypermethylated in FP vs FN
cg08609578	0.687	0.358	0.329	1e-07	NA	Hypermethylated in FP vs FN
cg08011838	0.719	0.407	0.312	1e-07	NA	Hypermethylated in FP vs FN
cg01750032	0.592	0.196	0.396	1e-07	NTF3	Hypermethylated in FP vs FN
cg05716671	0.781	0.320	0.461	1e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14794445	0.857	0.590	0.266	1e-07	NA	Hypermethylated in FP vs FN
cg04525852	0.509	0.193	0.316	1e-07	NA	Hypermethylated in FP vs FN
cg22226680	0.661	0.377	0.284	1e-07	NA	Hypermethylated in FP vs FN
cg07045089	0.654	0.313	0.341	1e-07	NA	Hypermethylated in FP vs FN
cg15072832	0.518	0.236	0.282	1e-07	NA	Hypermethylated in FP vs FN
cg26006870	0.846	0.461	0.385	1e-07	NA	Hypermethylated in FP vs FN
cg19731891	0.598	0.210	0.388	1e-07	NA	Hypermethylated in FP vs FN
cg08038054	0.592	0.245	0.347	1e-07	GNG11	Hypermethylated in FP vs FN
cg03540589	0.777	0.523	0.254	1e-07	NA	Hypermethylated in FP vs FN
cg26541233	0.782	0.407	0.375	1e-07	NA	Hypermethylated in FP vs FN
cg23404101	0.749	0.478	0.271	1e-07	TMEM88	Hypermethylated in FP vs FN
cg14185717	0.735	0.364	0.370	1e-07	NA	Hypermethylated in FP vs FN
cg07294774	0.576	0.201	0.375	1e-07	DIO2	Hypermethylated in FP vs FN
cg00334933	0.813	0.478	0.335	1e-07	NA	Hypermethylated in FP vs FN
cg05168015	0.592	0.278	0.314	1e-07	NA	Hypermethylated in FP vs FN
cg19306063	0.547	0.115	0.432	1e-07	C10orf125	Hypermethylated in FP vs FN
cg06333800	0.771	0.508	0.263	1e-07	NA	Hypermethylated in FP vs FN
cg21665744	0.672	0.302	0.371	1e-07	NA	Hypermethylated in FP vs FN
cg09034795	0.884	0.501	0.383	1e-07	NA	Hypermethylated in FP vs FN
cg10064892	0.617	0.317	0.301	1e-07	NA	Hypermethylated in FP vs FN
cg06804705	0.691	0.437	0.254	1e-07	NCRNA00114	Hypermethylated in FP vs FN
cg10486820	0.745	0.468	0.278	1e-07	NA	Hypermethylated in FP vs FN
cg02481934	0.719	0.263	0.456	1e-07	HIST1H3G	Hypermethylated in FP vs FN
cg04860238	0.799	0.423	0.375	1e-07	NA	Hypermethylated in FP vs FN
cg00298919	0.878	0.612	0.266	1e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09814231	0.628	0.349	0.279	1e-07	NA	Hypermethylated in FP vs FN
cg25010788	0.767	0.286	0.481	1e-07	NA	Hypermethylated in FP vs FN
cg25274008	0.694	0.436	0.258	1e-07	TRIM62	Hypermethylated in FP vs FN
cg00201819	0.788	0.530	0.258	1e-07	NA	Hypermethylated in FP vs FN
cg01306747	0.785	0.432	0.353	1e-07	NA	Hypermethylated in FP vs FN
cg21282907	0.728	0.457	0.271	1e-07	NA	Hypermethylated in FP vs FN
cg20725880	0.675	0.357	0.318	1e-07	ARL14	Hypermethylated in FP vs FN
cg22698604	0.618	0.209	0.409	1e-07	ABLIM1	Hypermethylated in FP vs FN
cg16162058	0.524	0.191	0.333	2e-07	NA	Hypermethylated in FP vs FN
cg07109453	0.633	0.317	0.316	2e-07	NA	Hypermethylated in FP vs FN
cg02298116	0.789	0.372	0.417	2e-07	NA	Hypermethylated in FP vs FN
cg13645530	0.748	0.278	0.470	2e-07	NA	Hypermethylated in FP vs FN
cg09265586	0.781	0.377	0.403	2e-07	NA	Hypermethylated in FP vs FN
cg11798406	0.815	0.453	0.362	2e-07	NA	Hypermethylated in FP vs FN
cg08419921	0.842	0.534	0.308	2e-07	NA	Hypermethylated in FP vs FN
cg12080675	0.789	0.375	0.414	2e-07	TBC1D9B	Hypermethylated in FP vs FN
cg21141024	0.382	0.122	0.260	2e-07	NA	Hypermethylated in FP vs FN
cg25692621	0.760	0.436	0.324	2e-07	ASB4	Hypermethylated in FP vs FN
cg03333634	0.711	0.293	0.418	2e-07	NA	Hypermethylated in FP vs FN
cg08717931	0.625	0.331	0.294	2e-07	NA	Hypermethylated in FP vs FN
cg15941159	0.601	0.276	0.324	2e-07	NA	Hypermethylated in FP vs FN
cg21960680	0.617	0.243	0.374	2e-07	NA	Hypermethylated in FP vs FN
cg16032050	0.668	0.345	0.323	2e-07	NA	Hypermethylated in FP vs FN
cg14174719	0.781	0.514	0.266	2e-07	NA	Hypermethylated in FP vs FN
cg04343927	0.704	0.382	0.322	2e-07	SPON2	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03689092	0.780	0.449	0.331	2e-07	LIMS2	Hypermethylated in FP vs FN
cg05873604	0.512	0.193	0.320	2e-07	NA	Hypermethylated in FP vs FN
cg13942782	0.754	0.454	0.300	2e-07	NA	Hypermethylated in FP vs FN
cg16230352	0.624	0.299	0.324	2e-07	NA	Hypermethylated in FP vs FN
cg04335714	0.587	0.239	0.348	2e-07	NA	Hypermethylated in FP vs FN
cg02478603	0.776	0.416	0.360	2e-07	CD1B	Hypermethylated in FP vs FN
cg10126181	0.800	0.456	0.344	2e-07	NA	Hypermethylated in FP vs FN
cg04588165	0.581	0.171	0.410	2e-07	NA	Hypermethylated in FP vs FN
cg02102684	0.763	0.423	0.340	2e-07	VASN	Hypermethylated in FP vs FN
cg23974194	0.759	0.312	0.447	2e-07	NA	Hypermethylated in FP vs FN
cg00445232	0.638	0.266	0.372	2e-07	NA	Hypermethylated in FP vs FN
cg20474425	0.529	0.123	0.406	2e-07	NA	Hypermethylated in FP vs FN
cg19069346	0.463	0.175	0.288	2e-07	PCP4	Hypermethylated in FP vs FN
cg22761483	0.637	0.271	0.367	2e-07	NA	Hypermethylated in FP vs FN
cg08647912	0.741	0.308	0.432	2e-07	NA	Hypermethylated in FP vs FN
cg24565274	0.776	0.372	0.404	2e-07	LOC100126784	Hypermethylated in FP vs FN
cg08835956	0.735	0.370	0.365	2e-07	NA	Hypermethylated in FP vs FN
cg01811325	0.496	0.115	0.381	2e-07	NA	Hypermethylated in FP vs FN
cg11891925	0.745	0.493	0.252	2e-07	NA	Hypermethylated in FP vs FN
cg06982473	0.909	0.565	0.343	2e-07	NA	Hypermethylated in FP vs FN
cg26014409	0.688	0.255	0.433	2e-07	NA	Hypermethylated in FP vs FN
cg10550882	0.615	0.312	0.303	2e-07	NA	Hypermethylated in FP vs FN
cg15266672	0.765	0.419	0.347	2e-07	NA	Hypermethylated in FP vs FN
cg22815214	0.713	0.460	0.254	2e-07	CACNA1S	Hypermethylated in FP vs FN
cg22123915	0.805	0.417	0.389	2e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09410612	0.764	0.421	0.343	2e-07	SPG20	Hypermethylated in FP vs FN
cg26545872	0.738	0.407	0.331	2e-07	NA	Hypermethylated in FP vs FN
cg16791134	0.822	0.522	0.299	2e-07	TIMP4	Hypermethylated in FP vs FN
cg01876978	0.501	0.187	0.314	2e-07	NA	Hypermethylated in FP vs FN
cg16209664	0.705	0.302	0.402	2e-07	NA	Hypermethylated in FP vs FN
cg06603561	0.859	0.474	0.385	2e-07	NA	Hypermethylated in FP vs FN
cg20953310	0.707	0.358	0.349	2e-07	NA	Hypermethylated in FP vs FN
cg14228614	0.598	0.316	0.282	2e-07	NA	Hypermethylated in FP vs FN
cg15817236	0.451	0.144	0.307	2e-07	ALX4	Hypermethylated in FP vs FN
cg12407867	0.568	0.284	0.284	2e-07	SPON2	Hypermethylated in FP vs FN
cg08293097	0.826	0.570	0.256	2e-07	NA	Hypermethylated in FP vs FN
cg11530995	0.625	0.312	0.313	2e-07	CALML4	Hypermethylated in FP vs FN
cg05404940	0.729	0.352	0.377	2e-07	NA	Hypermethylated in FP vs FN
cg08622757	0.636	0.250	0.386	2e-07	NA	Hypermethylated in FP vs FN
cg24724587	0.803	0.414	0.389	2e-07	DDAH1	Hypermethylated in FP vs FN
cg15109744	0.721	0.432	0.289	2e-07	NA	Hypermethylated in FP vs FN
cg11970797	0.689	0.356	0.333	2e-07	NA	Hypermethylated in FP vs FN
cg23504411	0.583	0.283	0.300	2e-07	HIST1H3J	Hypermethylated in FP vs FN
cg25879102	0.727	0.320	0.407	2e-07	NA	Hypermethylated in FP vs FN
cg17526175	0.677	0.372	0.305	2e-07	NA	Hypermethylated in FP vs FN
cg19430694	0.541	0.233	0.308	2e-07	NA	Hypermethylated in FP vs FN
cg01899937	0.791	0.499	0.292	2e-07	NA	Hypermethylated in FP vs FN
cg15765546	0.753	0.503	0.250	2e-07	NA	Hypermethylated in FP vs FN
cg14603620	0.675	0.174	0.501	2e-07	RAPGEFL1	Hypermethylated in FP vs FN
cg04454285	0.599	0.264	0.335	2e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24771349	0.596	0.157	0.438	2e-07	NA	Hypermethylated in FP vs FN
cg17178218	0.702	0.399	0.304	2e-07	NA	Hypermethylated in FP vs FN
cg21000533	0.823	0.512	0.311	2e-07	NA	Hypermethylated in FP vs FN
cg02295216	0.802	0.492	0.310	2e-07	CKLF_TK2	Hypermethylated in FP vs FN
cg03773862	0.806	0.472	0.334	2e-07	NA	Hypermethylated in FP vs FN
cg00857907	0.778	0.321	0.457	2e-07	NA	Hypermethylated in FP vs FN
cg18073883	0.839	0.472	0.367	2e-07	NA	Hypermethylated in FP vs FN
cg02543850	0.766	0.458	0.308	2e-07	NA	Hypermethylated in FP vs FN
cg05091570	0.790	0.350	0.440	2e-07	NA	Hypermethylated in FP vs FN
cg07013955	0.822	0.547	0.275	2e-07	NA	Hypermethylated in FP vs FN
cg26413192	0.635	0.302	0.333	2e-07	NA	Hypermethylated in FP vs FN
cg01227744	0.724	0.463	0.261	2e-07	NA	Hypermethylated in FP vs FN
cg23251200	0.688	0.387	0.301	2e-07	NA	Hypermethylated in FP vs FN
cg20452711	0.730	0.475	0.254	2e-07	NA	Hypermethylated in FP vs FN
cg25865108	0.717	0.368	0.349	2e-07	NA	Hypermethylated in FP vs FN
cg10298215	0.810	0.461	0.349	2e-07	NA	Hypermethylated in FP vs FN
cg16610086	0.612	0.275	0.337	2e-07	SLC1A3	Hypermethylated in FP vs FN
cg07670722	0.795	0.437	0.359	2e-07	NA	Hypermethylated in FP vs FN
cg13528145	0.821	0.519	0.303	2e-07	NA	Hypermethylated in FP vs FN
cg15864834	0.567	0.147	0.419	2e-07	NA	Hypermethylated in FP vs FN
cg23444101	0.650	0.156	0.494	2e-07	ALS2CL	Hypermethylated in FP vs FN
cg06965072	0.735	0.360	0.374	2e-07	NA	Hypermethylated in FP vs FN
cg02464866	0.797	0.448	0.350	2e-07	NA	Hypermethylated in FP vs FN
cg20921972	0.824	0.547	0.277	2e-07	NA	Hypermethylated in FP vs FN
cg13408795	0.728	0.457	0.271	2e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12349832	0.601	0.268	0.333	2e-07	NA	Hypermethylated in FP vs FN
cg12265878	0.671	0.359	0.313	2e-07	NA	Hypermethylated in FP vs FN
cg03554962	0.803	0.534	0.269	2e-07	NA	Hypermethylated in FP vs FN
cg07189401	0.558	0.230	0.329	2e-07	LOC100126784	Hypermethylated in FP vs FN
cg18631301	0.674	0.401	0.273	2e-07	NA	Hypermethylated in FP vs FN
cg05791870	0.870	0.516	0.354	2e-07	NA	Hypermethylated in FP vs FN
cg11728747	0.651	0.326	0.326	2e-07	NA	Hypermethylated in FP vs FN
cg15662902	0.689	0.361	0.327	2e-07	TNNI2	Hypermethylated in FP vs FN
cg08477641	0.404	0.110	0.294	2e-07	TREX1	Hypermethylated in FP vs FN
cg11241151	0.642	0.354	0.288	2e-07	NA	Hypermethylated in FP vs FN
cg01580681	0.591	0.202	0.389	2e-07	HAND2	Hypermethylated in FP vs FN
cg22320962	0.657	0.255	0.402	2e-07	GATA4	Hypermethylated in FP vs FN
cg03565720	0.773	0.451	0.322	2e-07	NA	Hypermethylated in FP vs FN
cg12889126	0.794	0.419	0.375	2e-07	NA	Hypermethylated in FP vs FN
cg12789448	0.760	0.425	0.335	2e-07	NA	Hypermethylated in FP vs FN
cg27464065	0.726	0.414	0.312	2e-07	NA	Hypermethylated in FP vs FN
cg14480116	0.622	0.296	0.327	2e-07	SPRED2	Hypermethylated in FP vs FN
cg15416279	0.640	0.231	0.409	2e-07	NA	Hypermethylated in FP vs FN
cg07357716	0.776	0.461	0.315	2e-07	NA	Hypermethylated in FP vs FN
cg11639849	0.629	0.171	0.459	2e-07	NA	Hypermethylated in FP vs FN
cg14833024	0.689	0.333	0.356	2e-07	NA	Hypermethylated in FP vs FN
cg25800765	0.573	0.189	0.384	2e-07	ALX1	Hypermethylated in FP vs FN
cg17501906	0.769	0.493	0.276	2e-07	NA	Hypermethylated in FP vs FN
cg09941363	0.469	0.166	0.303	2e-07	NA	Hypermethylated in FP vs FN
cg26668713	0.451	0.109	0.342	2e-07	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06075652	0.538	0.282	0.256	2e-07	NA	Hypermethylated in FP vs FN
cg10744297	0.840	0.465	0.375	2e-07	NA	Hypermethylated in FP vs FN
cg00220225	0.812	0.474	0.338	2e-07	NA	Hypermethylated in FP vs FN
cg15024955	0.624	0.370	0.255	2e-07	NA	Hypermethylated in FP vs FN
cg02128086	0.836	0.539	0.297	2e-07	NA	Hypermethylated in FP vs FN
cg08279097	0.737	0.468	0.269	2e-07	NA	Hypermethylated in FP vs FN
cg01524618	0.722	0.388	0.334	2e-07	NA	Hypermethylated in FP vs FN
cg00550616	0.845	0.531	0.314	2e-07	NA	Hypermethylated in FP vs FN
cg26878870	0.772	0.401	0.371	2e-07	ZNF608	Hypermethylated in FP vs FN
cg25324786	0.646	0.348	0.298	2e-07	NA	Hypermethylated in FP vs FN
cg19157853	0.683	0.247	0.436	2e-07	NA	Hypermethylated in FP vs FN
cg00114132	0.782	0.528	0.254	2e-07	NA	Hypermethylated in FP vs FN
cg08642111	0.740	0.317	0.423	2e-07	NA	Hypermethylated in FP vs FN
cg02363766	0.621	0.287	0.334	2e-07	NA	Hypermethylated in FP vs FN
cg26092675	0.794	0.310	0.485	2e-07	HIST1H3E	Hypermethylated in FP vs FN
cg04770020	0.824	0.414	0.410	2e-07	NA	Hypermethylated in FP vs FN
cg20048529	0.596	0.318	0.278	2e-07	NA	Hypermethylated in FP vs FN
cg09618773	0.824	0.480	0.344	2e-07	NA	Hypermethylated in FP vs FN
cg23907051	0.614	0.276	0.338	2e-07	NA	Hypermethylated in FP vs FN
cg07784293	0.762	0.377	0.386	2e-07	NA	Hypermethylated in FP vs FN
cg11505404	0.747	0.438	0.309	2e-07	NA	Hypermethylated in FP vs FN
cg13216724	0.852	0.493	0.360	3e-07	NA	Hypermethylated in FP vs FN
cg11724511	0.866	0.457	0.409	3e-07	NA	Hypermethylated in FP vs FN
cg04129548	0.813	0.399	0.415	3e-07	IRS1	Hypermethylated in FP vs FN
cg17497608	0.850	0.492	0.358	3e-07	FZD1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18132076	0.745	0.433	0.312	3e-07	NA	Hypermethylated in FP vs FN
cg00672445	0.873	0.607	0.266	3e-07	NA	Hypermethylated in FP vs FN
cg13200550	0.620	0.336	0.284	3e-07	RPSAP52	Hypermethylated in FP vs FN
cg04200243	0.469	0.171	0.297	3e-07	NA	Hypermethylated in FP vs FN
cg07300384	0.890	0.625	0.265	3e-07	KCNIP4	Hypermethylated in FP vs FN
cg04265261	0.474	0.212	0.261	3e-07	FIBCD1	Hypermethylated in FP vs FN
cg08091050	0.767	0.456	0.311	3e-07	NA	Hypermethylated in FP vs FN
cg17969560	0.653	0.370	0.282	3e-07	NA	Hypermethylated in FP vs FN
cg00730780	0.569	0.315	0.254	3e-07	NA	Hypermethylated in FP vs FN
cg18045515	0.576	0.239	0.337	3e-07	CBX2	Hypermethylated in FP vs FN
cg15652666	0.802	0.418	0.384	3e-07	NA	Hypermethylated in FP vs FN
cg27059225	0.425	0.168	0.257	3e-07	NA	Hypermethylated in FP vs FN
cg13522891	0.657	0.290	0.367	3e-07	NA	Hypermethylated in FP vs FN
cg14740976	0.677	0.389	0.288	3e-07	NA	Hypermethylated in FP vs FN
cg25813864	0.707	0.187	0.520	3e-07	RAPGEFL1	Hypermethylated in FP vs FN
cg18368599	0.696	0.393	0.303	3e-07	NA	Hypermethylated in FP vs FN
cg00890145	0.703	0.342	0.361	3e-07	NA	Hypermethylated in FP vs FN
cg21255880	0.710	0.315	0.395	3e-07	NA	Hypermethylated in FP vs FN
cg18446641	0.770	0.489	0.281	3e-07	NA	Hypermethylated in FP vs FN
cg23325335	0.813	0.522	0.291	3e-07	NA	Hypermethylated in FP vs FN
cg01330316	0.685	0.379	0.307	3e-07	NA	Hypermethylated in FP vs FN
cg00573606	0.742	0.350	0.392	3e-07	COL6A3	Hypermethylated in FP vs FN
cg14565781	0.746	0.384	0.363	3e-07	BTBD19	Hypermethylated in FP vs FN
cg16084133	0.771	0.400	0.371	3e-07	NA	Hypermethylated in FP vs FN
cg17239876	0.791	0.403	0.388	3e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19932388	0.676	0.387	0.289	3e-07	NA	Hypermethylated in FP vs FN
cg08689708	0.795	0.458	0.337	3e-07	NA	Hypermethylated in FP vs FN
cg04704193	0.468	0.212	0.256	3e-07	HIST1H3G_HIST1H2BI	Hypermethylated in FP vs FN
cg16942327	0.673	0.336	0.337	3e-07	NA	Hypermethylated in FP vs FN
cg04869379	0.695	0.314	0.381	3e-07	NA	Hypermethylated in FP vs FN
cg04062190	0.672	0.321	0.351	3e-07	NA	Hypermethylated in FP vs FN
cg05279866	0.675	0.334	0.341	3e-07	NA	Hypermethylated in FP vs FN
cg23716309	0.584	0.261	0.323	3e-07	IQCF5	Hypermethylated in FP vs FN
cg06554192	0.863	0.590	0.273	3e-07	NA	Hypermethylated in FP vs FN
cg13105904	0.686	0.341	0.345	3e-07	CBLN3	Hypermethylated in FP vs FN
cg03815621	0.506	0.216	0.290	3e-07	NA	Hypermethylated in FP vs FN
cg16353800	0.777	0.359	0.419	3e-07	NA	Hypermethylated in FP vs FN
cg06200244	0.666	0.293	0.373	3e-07	NA	Hypermethylated in FP vs FN
cg27428520	0.744	0.468	0.276	3e-07	NA	Hypermethylated in FP vs FN
cg21007509	0.760	0.376	0.383	3e-07	NA	Hypermethylated in FP vs FN
cg25361844	0.427	0.102	0.326	3e-07	SIPA1	Hypermethylated in FP vs FN
cg19778015	0.625	0.309	0.316	3e-07	VGLL4	Hypermethylated in FP vs FN
cg13708645	0.640	0.241	0.398	3e-07	NA	Hypermethylated in FP vs FN
cg23345300	0.625	0.313	0.312	3e-07	NA	Hypermethylated in FP vs FN
cg04078608	0.494	0.196	0.299	3e-07	NA	Hypermethylated in FP vs FN
cg13236409	0.614	0.324	0.290	3e-07	NA	Hypermethylated in FP vs FN
cg14336112	0.859	0.543	0.316	3e-07	NA	Hypermethylated in FP vs FN
cg00143220	0.446	0.133	0.313	3e-07	NA	Hypermethylated in FP vs FN
cg05688618	0.700	0.388	0.312	3e-07	ARHGAP24	Hypermethylated in FP vs FN
cg07489132	0.847	0.470	0.376	3e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11348372	0.734	0.461	0.273	3e-07	NA	Hypermethylated in FP vs FN
cg02903104	0.799	0.495	0.303	3e-07	NA	Hypermethylated in FP vs FN
cg16317318	0.564	0.273	0.291	3e-07	NA	Hypermethylated in FP vs FN
cg21776667	0.758	0.489	0.269	3e-07	NA	Hypermethylated in FP vs FN
cg13493563	0.832	0.578	0.254	3e-07	NA	Hypermethylated in FP vs FN
cg21800400	0.473	0.223	0.251	3e-07	AKAP11	Hypermethylated in FP vs FN
cg12581598	0.821	0.550	0.271	3e-07	NA	Hypermethylated in FP vs FN
cg11779019	0.700	0.334	0.366	3e-07	NA	Hypermethylated in FP vs FN
cg24729983	0.538	0.170	0.368	3e-07	CCNO	Hypermethylated in FP vs FN
cg10084993	0.666	0.383	0.283	3e-07	NA	Hypermethylated in FP vs FN
cg08764162	0.777	0.418	0.359	3e-07	NA	Hypermethylated in FP vs FN
cg04583074	0.762	0.490	0.273	3e-07	NA	Hypermethylated in FP vs FN
cg04552500	0.445	0.165	0.280	3e-07	GRHL3	Hypermethylated in FP vs FN
cg03331978	0.749	0.393	0.356	3e-07	NA	Hypermethylated in FP vs FN
cg06521357	0.608	0.243	0.365	3e-07	NA	Hypermethylated in FP vs FN
cg04374786	0.736	0.358	0.378	3e-07	NA	Hypermethylated in FP vs FN
cg08969855	0.704	0.390	0.314	3e-07	NA	Hypermethylated in FP vs FN
cg02616947	0.354	0.067	0.287	3e-07	NA	Hypermethylated in FP vs FN
cg09600088	0.758	0.386	0.372	3e-07	NA	Hypermethylated in FP vs FN
cg02400572	0.679	0.354	0.325	3e-07	NA	Hypermethylated in FP vs FN
cg11036041	0.752	0.498	0.254	3e-07	NA	Hypermethylated in FP vs FN
cg05302441	0.657	0.351	0.307	3e-07	NA	Hypermethylated in FP vs FN
cg27403612	0.790	0.483	0.306	3e-07	NA	Hypermethylated in FP vs FN
cg00622166	0.591	0.311	0.280	3e-07	GPT2	Hypermethylated in FP vs FN
cg16520712	0.824	0.480	0.344	3e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10959932	0.643	0.370	0.273	3e-07	CPT2	Hypermethylated in FP vs FN
cg16784745	0.825	0.508	0.317	3e-07	NA	Hypermethylated in FP vs FN
cg19918057	0.827	0.567	0.260	3e-07	NA	Hypermethylated in FP vs FN
cg06094642	0.545	0.155	0.390	3e-07	NA	Hypermethylated in FP vs FN
cg09825309	0.656	0.282	0.374	3e-07	NA	Hypermethylated in FP vs FN
cg14621221	0.600	0.234	0.366	3e-07	NA	Hypermethylated in FP vs FN
cg26338453	0.400	0.106	0.293	3e-07	NA	Hypermethylated in FP vs FN
cg09007161	0.418	0.133	0.284	3e-07	FANCF	Hypermethylated in FP vs FN
cg27339256	0.652	0.310	0.342	3e-07	NA	Hypermethylated in FP vs FN
cg17200577	0.833	0.567	0.265	3e-07	NA	Hypermethylated in FP vs FN
cg00095259	0.659	0.342	0.317	3e-07	NA	Hypermethylated in FP vs FN
cg02526790	0.559	0.225	0.334	3e-07	NA	Hypermethylated in FP vs FN
cg05241355	0.719	0.320	0.399	3e-07	OTX2	Hypermethylated in FP vs FN
cg20427144	0.768	0.447	0.322	3e-07	NA	Hypermethylated in FP vs FN
cg15826437	0.663	0.170	0.494	3e-07	RAPGEFL1	Hypermethylated in FP vs FN
cg10634568	0.750	0.370	0.379	3e-07	NA	Hypermethylated in FP vs FN
cg17109042	0.585	0.265	0.320	3e-07	NA	Hypermethylated in FP vs FN
cg16269755	0.680	0.355	0.325	3e-07	NA	Hypermethylated in FP vs FN
cg06363034	0.683	0.419	0.264	3e-07	NA	Hypermethylated in FP vs FN
cg14276379	0.803	0.519	0.283	3e-07	NA	Hypermethylated in FP vs FN
cg06809074	0.777	0.385	0.392	3e-07	NA	Hypermethylated in FP vs FN
cg10184431	0.715	0.302	0.413	3e-07	HIST1H2AJ_HIST1H2BM	Hypermethylated in FP vs FN
cg18824990	0.670	0.294	0.377	3e-07	NA	Hypermethylated in FP vs FN
cg00561854	0.716	0.356	0.360	3e-07	NA	Hypermethylated in FP vs FN
cg12686055	0.667	0.339	0.329	3e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16570669	0.755	0.416	0.339	3e-07	NA	Hypermethylated in FP vs FN
cg16688434	0.435	0.157	0.278	3e-07	NA	Hypermethylated in FP vs FN
cg12251448	0.690	0.416	0.274	3e-07	NA	Hypermethylated in FP vs FN
cg27557974	0.781	0.491	0.290	3e-07	NA	Hypermethylated in FP vs FN
cg12637676	0.876	0.528	0.348	3e-07	NA	Hypermethylated in FP vs FN
cg23561531	0.706	0.395	0.311	3e-07	NA	Hypermethylated in FP vs FN
cg17826834	0.641	0.289	0.353	3e-07	NR2F2	Hypermethylated in FP vs FN
cg23613857	0.542	0.208	0.334	3e-07	NA	Hypermethylated in FP vs FN
cg02238362	0.704	0.437	0.267	3e-07	NA	Hypermethylated in FP vs FN
cg01628425	0.395	0.115	0.281	3e-07	NA	Hypermethylated in FP vs FN
cg20169702	0.559	0.179	0.380	3e-07	SULF1	Hypermethylated in FP vs FN
cg13977827	0.739	0.362	0.377	3e-07	NA	Hypermethylated in FP vs FN
cg27406983	0.698	0.349	0.349	3e-07	NA	Hypermethylated in FP vs FN
cg22684370	0.821	0.516	0.305	3e-07	NA	Hypermethylated in FP vs FN
cg10151367	0.467	0.177	0.290	3e-07	NA	Hypermethylated in FP vs FN
cg13028819	0.686	0.342	0.344	3e-07	NA	Hypermethylated in FP vs FN
cg23443098	0.778	0.407	0.371	3e-07	NA	Hypermethylated in FP vs FN
cg19339179	0.706	0.329	0.377	3e-07	NA	Hypermethylated in FP vs FN
cg08628233	0.743	0.404	0.339	3e-07	NA	Hypermethylated in FP vs FN
cg00289254	0.626	0.317	0.309	3e-07	NA	Hypermethylated in FP vs FN
cg21787063	0.736	0.414	0.323	3e-07	ASB4	Hypermethylated in FP vs FN
cg12598524	0.559	0.275	0.284	3e-07	NA	Hypermethylated in FP vs FN
cg25356719	0.831	0.485	0.346	3e-07	NA	Hypermethylated in FP vs FN
cg07136023	0.697	0.309	0.388	3e-07	NA	Hypermethylated in FP vs FN
cg06927337	0.640	0.299	0.341	3e-07	LFNG	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01182865	0.847	0.528	0.319	3e-07	NA	Hypermethylated in FP vs FN
cg23378722	0.701	0.374	0.327	3e-07	NA	Hypermethylated in FP vs FN
cg22367556	0.800	0.463	0.337	4e-07	NA	Hypermethylated in FP vs FN
cg10737521	0.761	0.396	0.365	4e-07	TBC1D9B	Hypermethylated in FP vs FN
cg03833141	0.824	0.559	0.264	4e-07	NA	Hypermethylated in FP vs FN
cg12419052	0.786	0.377	0.409	4e-07	ZIC1	Hypermethylated in FP vs FN
cg03276000	0.719	0.383	0.336	4e-07	NA	Hypermethylated in FP vs FN
cg03105348	0.632	0.302	0.330	4e-07	NA	Hypermethylated in FP vs FN
cg14248715	0.718	0.261	0.457	4e-07	NA	Hypermethylated in FP vs FN
cg11670174	0.725	0.353	0.372	4e-07	NA	Hypermethylated in FP vs FN
cg03209557	0.559	0.180	0.379	4e-07	HIST1H2BI	Hypermethylated in FP vs FN
cg19533322	0.860	0.492	0.368	4e-07	NA	Hypermethylated in FP vs FN
cg23256675	0.638	0.362	0.276	4e-07	NA	Hypermethylated in FP vs FN
cg26873392	0.862	0.602	0.260	4e-07	NA	Hypermethylated in FP vs FN
cg12700788	0.548	0.166	0.382	4e-07	NA	Hypermethylated in FP vs FN
cg26291848	0.769	0.358	0.410	4e-07	NA	Hypermethylated in FP vs FN
cg12596243	0.707	0.392	0.315	4e-07	NA	Hypermethylated in FP vs FN
cg25620430	0.617	0.213	0.404	4e-07	NA	Hypermethylated in FP vs FN
cg06518763	0.686	0.427	0.259	4e-07	TMEM88	Hypermethylated in FP vs FN
cg06402675	0.731	0.308	0.422	4e-07	NA	Hypermethylated in FP vs FN
cg20388580	0.685	0.336	0.349	4e-07	NA	Hypermethylated in FP vs FN
cg08317243	0.849	0.594	0.254	4e-07	NA	Hypermethylated in FP vs FN
cg14669274	0.515	0.116	0.399	4e-07	NA	Hypermethylated in FP vs FN
cg21436520	0.417	0.137	0.279	4e-07	NA	Hypermethylated in FP vs FN
cg14960043	0.379	0.120	0.259	4e-07	DEF6	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10300895	0.714	0.358	0.356	4e-07	NA	Hypermethylated in FP vs FN
cg08676510	0.716	0.403	0.313	4e-07	NA	Hypermethylated in FP vs FN
cg13455960	0.707	0.386	0.321	4e-07	RGMA	Hypermethylated in FP vs FN
cg17701159	0.732	0.322	0.410	4e-07	NA	Hypermethylated in FP vs FN
cg04529785	0.672	0.186	0.486	4e-07	NA	Hypermethylated in FP vs FN
cg15142430	0.787	0.504	0.283	4e-07	PIAS2	Hypermethylated in FP vs FN
cg17736443	0.743	0.274	0.469	4e-07	HIST1H2AJ_HIST1H2BM	Hypermethylated in FP vs FN
cg06345909	0.630	0.328	0.302	4e-07	NA	Hypermethylated in FP vs FN
cg02162534	0.556	0.227	0.330	4e-07	NA	Hypermethylated in FP vs FN
cg12592635	0.426	0.086	0.340	4e-07	RBMS3	Hypermethylated in FP vs FN
cg01987353	0.645	0.344	0.302	4e-07	NA	Hypermethylated in FP vs FN
cg02520639	0.699	0.418	0.281	4e-07	NA	Hypermethylated in FP vs FN
cg03238581	0.635	0.349	0.286	4e-07	CSPG4	Hypermethylated in FP vs FN
cg00950038	0.731	0.444	0.287	4e-07	NA	Hypermethylated in FP vs FN
cg04679114	0.870	0.594	0.276	4e-07	NA	Hypermethylated in FP vs FN
cg19689506	0.826	0.518	0.308	4e-07	NA	Hypermethylated in FP vs FN
cg04574507	0.769	0.409	0.361	4e-07	NA	Hypermethylated in FP vs FN
cg12391352	0.655	0.178	0.477	4e-07	NA	Hypermethylated in FP vs FN
cg03221914	0.830	0.442	0.388	4e-07	HIST1H2AJ	Hypermethylated in FP vs FN
cg24398450	0.573	0.296	0.277	4e-07	SELPLG	Hypermethylated in FP vs FN
cg06076931	0.766	0.455	0.311	4e-07	NA	Hypermethylated in FP vs FN
cg23601468	0.805	0.484	0.321	4e-07	NA	Hypermethylated in FP vs FN
cg25006829	0.855	0.599	0.256	4e-07	NA	Hypermethylated in FP vs FN
cg09020697	0.728	0.423	0.306	4e-07	NA	Hypermethylated in FP vs FN
cg16222367	0.813	0.561	0.252	4e-07	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10210909	0.763	0.411	0.352	4e-07	NA	Hypermethylated in FP vs FN
cg20981219	0.569	0.219	0.350	4e-07	NA	Hypermethylated in FP vs FN
cg24598316	0.522	0.193	0.329	4e-07	NA	Hypermethylated in FP vs FN
cg15716680	0.613	0.244	0.369	4e-07	NA	Hypermethylated in FP vs FN
cg09266087	0.795	0.460	0.335	4e-07	NA	Hypermethylated in FP vs FN
cg16762030	0.765	0.486	0.279	4e-07	NA	Hypermethylated in FP vs FN
cg18947676	0.715	0.431	0.284	4e-07	NA	Hypermethylated in FP vs FN
cg03193299	0.666	0.376	0.290	4e-07	SPON2	Hypermethylated in FP vs FN
cg02649248	0.562	0.291	0.271	4e-07	NA	Hypermethylated in FP vs FN
cg02385153	0.759	0.483	0.276	4e-07	LOC100310782	Hypermethylated in FP vs FN
cg27052418	0.747	0.458	0.289	4e-07	NA	Hypermethylated in FP vs FN
cg21658968	0.665	0.385	0.280	4e-07	NA	Hypermethylated in FP vs FN
cg06553058	0.634	0.343	0.290	4e-07	NA	Hypermethylated in FP vs FN
cg07969646	0.599	0.343	0.256	4e-07	IER5	Hypermethylated in FP vs FN
cg09032137	0.842	0.500	0.342	4e-07	NA	Hypermethylated in FP vs FN
cg13206932	0.752	0.386	0.365	4e-07	NA	Hypermethylated in FP vs FN
cg11540932	0.631	0.328	0.303	5e-07	NA	Hypermethylated in FP vs FN
cg14414406	0.736	0.438	0.297	5e-07	NA	Hypermethylated in FP vs FN
cg12281328	0.749	0.360	0.389	5e-07	ARSI	Hypermethylated in FP vs FN
cg13821077	0.779	0.491	0.288	5e-07	NA	Hypermethylated in FP vs FN
cg01783960	0.635	0.382	0.253	5e-07	NA	Hypermethylated in FP vs FN
cg21749794	0.663	0.315	0.348	5e-07	NA	Hypermethylated in FP vs FN
cg04447981	0.497	0.215	0.282	5e-07	SIPA1	Hypermethylated in FP vs FN
cg10418812	0.793	0.449	0.344	5e-07	NA	Hypermethylated in FP vs FN
cg05719164	0.667	0.147	0.520	5e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19119942	0.796	0.458	0.338	5e-07	NA	Hypermethylated in FP vs FN
cg15587771	0.767	0.471	0.296	5e-07	NA	Hypermethylated in FP vs FN
cg09015905	0.804	0.547	0.258	5e-07	NA	Hypermethylated in FP vs FN
cg14065446	0.642	0.306	0.336	5e-07	NA	Hypermethylated in FP vs FN
cg22785261	0.935	0.542	0.393	5e-07	NA	Hypermethylated in FP vs FN
cg20781516	0.844	0.489	0.354	5e-07	NA	Hypermethylated in FP vs FN
cg04178858	0.645	0.178	0.467	5e-07	RAPGEFL1	Hypermethylated in FP vs FN
cg01411786	0.788	0.313	0.475	5e-07	NA	Hypermethylated in FP vs FN
cg05730269	0.540	0.267	0.273	5e-07	PHLDB1	Hypermethylated in FP vs FN
cg00866439	0.898	0.643	0.255	5e-07	NA	Hypermethylated in FP vs FN
cg01549315	0.758	0.405	0.353	5e-07	NA	Hypermethylated in FP vs FN
cg04601510	0.833	0.500	0.333	5e-07	NA	Hypermethylated in FP vs FN
cg22335692	0.487	0.197	0.290	5e-07	NA	Hypermethylated in FP vs FN
cg16503611	0.809	0.499	0.310	5e-07	NA	Hypermethylated in FP vs FN
cg25039498	0.587	0.312	0.275	5e-07	NA	Hypermethylated in FP vs FN
cg15375772	0.650	0.227	0.424	5e-07	NA	Hypermethylated in FP vs FN
cg16594139	0.552	0.187	0.364	5e-07	HSD17B14	Hypermethylated in FP vs FN
cg07312051	0.580	0.295	0.285	5e-07	NA	Hypermethylated in FP vs FN
cg23408104	0.734	0.454	0.280	5e-07	NA	Hypermethylated in FP vs FN
cg09177106	0.540	0.174	0.367	5e-07	NA	Hypermethylated in FP vs FN
cg08908482	0.740	0.418	0.322	5e-07	NA	Hypermethylated in FP vs FN
cg14422085	0.867	0.519	0.348	5e-07	NA	Hypermethylated in FP vs FN
cg17384769	0.814	0.556	0.258	5e-07	NA	Hypermethylated in FP vs FN
cg26645242	0.686	0.377	0.309	5e-07	NA	Hypermethylated in FP vs FN
cg26709988	0.832	0.503	0.330	5e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00231483	0.576	0.285	0.291	5e-07	CBLN2	Hypermethylated in FP vs FN
cg23042510	0.455	0.105	0.350	5e-07	NA	Hypermethylated in FP vs FN
cg03632278	0.535	0.253	0.282	5e-07	NA	Hypermethylated in FP vs FN
cg10865444	0.767	0.458	0.309	5e-07	C21orf129_NCRNA00112	Hypermethylated in FP vs FN
cg13376199	0.788	0.435	0.354	5e-07	NA	Hypermethylated in FP vs FN
cg13780614	0.649	0.314	0.335	5e-07	NA	Hypermethylated in FP vs FN
cg04337944	0.521	0.203	0.318	5e-07	NA	Hypermethylated in FP vs FN
cg10239319	0.782	0.524	0.259	5e-07	NA	Hypermethylated in FP vs FN
cg24797574	0.559	0.238	0.322	5e-07	NA	Hypermethylated in FP vs FN
cg00503017	0.656	0.379	0.277	5e-07	NA	Hypermethylated in FP vs FN
cg00046899	0.572	0.271	0.301	5e-07	NA	Hypermethylated in FP vs FN
cg12127991	0.612	0.315	0.297	5e-07	RHOU	Hypermethylated in FP vs FN
cg00793227	0.769	0.462	0.307	5e-07	NA	Hypermethylated in FP vs FN
cg11261958	0.695	0.411	0.284	5e-07	NA	Hypermethylated in FP vs FN
cg01171786	0.714	0.419	0.296	5e-07	NA	Hypermethylated in FP vs FN
cg11351527	0.750	0.422	0.328	5e-07	FFAR1	Hypermethylated in FP vs FN
cg01561194	0.509	0.249	0.261	5e-07	NA	Hypermethylated in FP vs FN
cg02434703	0.853	0.572	0.281	6e-07	NA	Hypermethylated in FP vs FN
cg16774755	0.873	0.567	0.306	6e-07	NA	Hypermethylated in FP vs FN
cg08846079	0.577	0.268	0.309	6e-07	NA	Hypermethylated in FP vs FN
cg06812836	0.622	0.265	0.358	6e-07	NA	Hypermethylated in FP vs FN
cg08656333	0.799	0.494	0.305	6e-07	NA	Hypermethylated in FP vs FN
cg00838919	0.760	0.335	0.425	6e-07	NA	Hypermethylated in FP vs FN
cg00727310	0.792	0.404	0.388	6e-07	IRS1	Hypermethylated in FP vs FN
cg18881873	0.599	0.227	0.372	6e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23762633	0.750	0.346	0.404	6e-07	ODC1	Hypermethylated in FP vs FN
cg09703323	0.662	0.368	0.294	6e-07	NA	Hypermethylated in FP vs FN
cg11835347	0.681	0.423	0.258	6e-07	NA	Hypermethylated in FP vs FN
cg02693607	0.723	0.368	0.355	6e-07	NA	Hypermethylated in FP vs FN
cg05393300	0.839	0.551	0.287	6e-07	NA	Hypermethylated in FP vs FN
cg13462082	0.679	0.391	0.287	6e-07	NA	Hypermethylated in FP vs FN
cg13442428	0.541	0.113	0.428	6e-07	USP2	Hypermethylated in FP vs FN
cg23043937	0.696	0.424	0.272	6e-07	NA	Hypermethylated in FP vs FN
cg18537222	0.823	0.517	0.306	6e-07	NA	Hypermethylated in FP vs FN
cg10370262	0.738	0.475	0.263	6e-07	NA	Hypermethylated in FP vs FN
cg21241151	0.665	0.348	0.316	6e-07	NA	Hypermethylated in FP vs FN
cg18966688	0.827	0.468	0.359	6e-07	NA	Hypermethylated in FP vs FN
cg17848389	0.677	0.408	0.268	6e-07	NA	Hypermethylated in FP vs FN
cg10397082	0.649	0.385	0.263	6e-07	NA	Hypermethylated in FP vs FN
cg04883903	0.738	0.234	0.505	6e-07	NA	Hypermethylated in FP vs FN
cg18297797	0.749	0.395	0.354	6e-07	NA	Hypermethylated in FP vs FN
cg09121695	0.467	0.127	0.340	6e-07	NA	Hypermethylated in FP vs FN
cg02881186	0.631	0.267	0.363	6e-07	NA	Hypermethylated in FP vs FN
cg01753263	0.554	0.241	0.313	6e-07	NA	Hypermethylated in FP vs FN
cg18526008	0.498	0.217	0.282	6e-07	NA	Hypermethylated in FP vs FN
cg08755784	0.779	0.391	0.389	6e-07	NA	Hypermethylated in FP vs FN
cg08616663	0.780	0.498	0.282	6e-07	NA	Hypermethylated in FP vs FN
cg22800862	0.802	0.549	0.253	6e-07	NA	Hypermethylated in FP vs FN
cg10811426	0.698	0.376	0.322	6e-07	NA	Hypermethylated in FP vs FN
cg15629460	0.418	0.160	0.258	6e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11426157	0.573	0.287	0.285	6e-07	SYNPO	Hypermethylated in FP vs FN
cg23042540	0.738	0.463	0.275	6e-07	NA	Hypermethylated in FP vs FN
cg18145505	0.484	0.167	0.317	6e-07	GREM1	Hypermethylated in FP vs FN
cg23424125	0.863	0.525	0.338	6e-07	NA	Hypermethylated in FP vs FN
cg12486287	0.713	0.329	0.384	6e-07	VASN	Hypermethylated in FP vs FN
cg27458485	0.640	0.184	0.455	6e-07	NA	Hypermethylated in FP vs FN
cg16574134	0.736	0.221	0.515	6e-07	NA	Hypermethylated in FP vs FN
cg02729344	0.629	0.245	0.384	6e-07	NA	Hypermethylated in FP vs FN
cg09218240	0.810	0.539	0.271	6e-07	NA	Hypermethylated in FP vs FN
cg09074223	0.681	0.296	0.385	6e-07	NA	Hypermethylated in FP vs FN
cg24188870	0.865	0.614	0.251	6e-07	NA	Hypermethylated in FP vs FN
cg00085370	0.646	0.340	0.306	6e-07	NA	Hypermethylated in FP vs FN
cg16411103	0.828	0.570	0.257	6e-07	NA	Hypermethylated in FP vs FN
cg02232377	0.777	0.400	0.377	6e-07	NA	Hypermethylated in FP vs FN
cg23375717	0.843	0.568	0.275	6e-07	NA	Hypermethylated in FP vs FN
cg08439276	0.774	0.506	0.268	6e-07	NA	Hypermethylated in FP vs FN
cg05413872	0.751	0.338	0.413	6e-07	NA	Hypermethylated in FP vs FN
cg00762678	0.761	0.479	0.283	6e-07	NA	Hypermethylated in FP vs FN
cg12093241	0.658	0.301	0.356	6e-07	NA	Hypermethylated in FP vs FN
cg13468318	0.744	0.377	0.367	6e-07	NA	Hypermethylated in FP vs FN
cg22094781	0.759	0.459	0.301	6e-07	NA	Hypermethylated in FP vs FN
cg10131879	0.702	0.384	0.318	6e-07	NA	Hypermethylated in FP vs FN
cg26561187	0.824	0.504	0.320	6e-07	NA	Hypermethylated in FP vs FN
cg08263571	0.677	0.296	0.381	6e-07	NA	Hypermethylated in FP vs FN
cg14082739	0.797	0.493	0.304	6e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27554551	0.692	0.407	0.285	6e-07	VASN	Hypermethylated in FP vs FN
cg12657297	0.851	0.594	0.257	6e-07	NA	Hypermethylated in FP vs FN
cg00023673	0.885	0.615	0.270	6e-07	NA	Hypermethylated in FP vs FN
cg23161733	0.748	0.428	0.320	6e-07	NA	Hypermethylated in FP vs FN
cg11097675	0.637	0.308	0.329	6e-07	NA	Hypermethylated in FP vs FN
cg03082589	0.720	0.363	0.357	6e-07	NA	Hypermethylated in FP vs FN
cg15204740	0.751	0.377	0.374	6e-07	LPIN3	Hypermethylated in FP vs FN
cg07803375	0.694	0.287	0.407	7e-07	NA	Hypermethylated in FP vs FN
cg27008230	0.523	0.160	0.363	7e-07	ABLIM1	Hypermethylated in FP vs FN
cg05508092	0.771	0.405	0.366	7e-07	NA	Hypermethylated in FP vs FN
cg00332509	0.676	0.382	0.295	7e-07	NA	Hypermethylated in FP vs FN
cg18594054	0.713	0.375	0.338	7e-07	NA	Hypermethylated in FP vs FN
cg09599843	0.661	0.301	0.360	7e-07	NA	Hypermethylated in FP vs FN
cg18899064	0.744	0.418	0.326	7e-07	PLAT	Hypermethylated in FP vs FN
cg25422895	0.839	0.588	0.251	7e-07	NA	Hypermethylated in FP vs FN
cg15975761	0.662	0.370	0.292	7e-07	NA	Hypermethylated in FP vs FN
cg16144181	0.798	0.542	0.256	7e-07	NA	Hypermethylated in FP vs FN
cg16349819	0.806	0.526	0.281	7e-07	NA	Hypermethylated in FP vs FN
cg08631502	0.618	0.276	0.342	7e-07	NA	Hypermethylated in FP vs FN
cg24902339	0.777	0.424	0.353	7e-07	NA	Hypermethylated in FP vs FN
cg22921096	0.633	0.354	0.279	7e-07	NA	Hypermethylated in FP vs FN
cg18410680	0.856	0.511	0.346	7e-07	TMEM88	Hypermethylated in FP vs FN
cg01142676	0.669	0.386	0.283	7e-07	FXYD2	Hypermethylated in FP vs FN
cg21648121	0.666	0.320	0.346	7e-07	NA	Hypermethylated in FP vs FN
cg12809365	0.560	0.236	0.324	7e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22884792	0.340	0.060	0.280	7e-07	WNT1	Hypermethylated in FP vs FN
cg07339236	0.432	0.168	0.264	7e-07	NA	Hypermethylated in FP vs FN
cg13466576	0.861	0.584	0.277	7e-07	SNORA70C	Hypermethylated in FP vs FN
cg04990724	0.560	0.128	0.433	7e-07	ALS2CL	Hypermethylated in FP vs FN
cg26127778	0.721	0.310	0.411	7e-07	RGMA	Hypermethylated in FP vs FN
cg02940164	0.456	0.125	0.332	7e-07	NA	Hypermethylated in FP vs FN
cg09409786	0.845	0.592	0.253	7e-07	NA	Hypermethylated in FP vs FN
cg13119578	0.740	0.462	0.278	7e-07	NA	Hypermethylated in FP vs FN
cg17142020	0.720	0.426	0.293	7e-07	NA	Hypermethylated in FP vs FN
cg16320159	0.755	0.385	0.371	7e-07	ADD3	Hypermethylated in FP vs FN
cg00058887	0.683	0.292	0.391	7e-07	NA	Hypermethylated in FP vs FN
cg25092838	0.767	0.319	0.449	7e-07	OTX2OS1	Hypermethylated in FP vs FN
cg05732979	0.742	0.378	0.364	7e-07	NA	Hypermethylated in FP vs FN
cg16889320	0.693	0.362	0.331	7e-07	NA	Hypermethylated in FP vs FN
cg11574184	0.566	0.269	0.297	7e-07	MGC70857	Hypermethylated in FP vs FN
cg10818833	0.620	0.168	0.452	7e-07	NA	Hypermethylated in FP vs FN
cg13728131	0.781	0.399	0.382	7e-07	NA	Hypermethylated in FP vs FN
cg02230811	0.708	0.368	0.340	7e-07	NA	Hypermethylated in FP vs FN
cg18150280	0.688	0.372	0.315	7e-07	RGS2	Hypermethylated in FP vs FN
cg14679780	0.608	0.291	0.317	7e-07	NA	Hypermethylated in FP vs FN
cg18297437	0.734	0.265	0.469	7e-07	NA	Hypermethylated in FP vs FN
cg02640809	0.732	0.467	0.265	7e-07	NA	Hypermethylated in FP vs FN
cg03806095	0.467	0.120	0.346	7e-07	NA	Hypermethylated in FP vs FN
cg14297340	0.749	0.432	0.317	7e-07	NA	Hypermethylated in FP vs FN
cg14551562	0.691	0.299	0.392	7e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23276695	0.850	0.578	0.272	7e-07	CNR1	Hypermethylated in FP vs FN
cg12091376	0.549	0.207	0.341	7e-07	RIPK4	Hypermethylated in FP vs FN
cg17416644	0.836	0.466	0.370	7e-07	NA	Hypermethylated in FP vs FN
cg07922606	0.779	0.348	0.431	8e-07	HIST1H3E	Hypermethylated in FP vs FN
cg09450823	0.639	0.362	0.278	8e-07	NA	Hypermethylated in FP vs FN
cg04697262	0.689	0.281	0.408	8e-07	NA	Hypermethylated in FP vs FN
cg26262049	0.786	0.449	0.337	8e-07	NA	Hypermethylated in FP vs FN
cg05688616	0.811	0.461	0.350	8e-07	NA	Hypermethylated in FP vs FN
cg15271616	0.637	0.350	0.287	8e-07	NA	Hypermethylated in FP vs FN
cg15803845	0.757	0.422	0.336	8e-07	NA	Hypermethylated in FP vs FN
cg05194412	0.573	0.302	0.270	8e-07	NA	Hypermethylated in FP vs FN
cg16151261	0.573	0.273	0.300	8e-07	NA	Hypermethylated in FP vs FN
cg23691894	0.781	0.440	0.342	8e-07	ADD3	Hypermethylated in FP vs FN
cg11100309	0.617	0.229	0.388	8e-07	NA	Hypermethylated in FP vs FN
cg12439977	0.572	0.260	0.312	8e-07	NA	Hypermethylated in FP vs FN
cg01560642	0.390	0.137	0.252	8e-07	NA	Hypermethylated in FP vs FN
cg21515003	0.780	0.420	0.360	8e-07	NA	Hypermethylated in FP vs FN
cg14436569	0.655	0.379	0.277	8e-07	NA	Hypermethylated in FP vs FN
cg17307280	0.476	0.134	0.342	8e-07	DRD1	Hypermethylated in FP vs FN
cg00446697	0.697	0.406	0.291	8e-07	NA	Hypermethylated in FP vs FN
cg02046247	0.765	0.404	0.361	8e-07	NA	Hypermethylated in FP vs FN
cg01409709	0.816	0.472	0.344	8e-07	NA	Hypermethylated in FP vs FN
cg22436336	0.708	0.438	0.270	8e-07	NA	Hypermethylated in FP vs FN
cg27459353	0.555	0.230	0.325	8e-07	ATP2C2	Hypermethylated in FP vs FN
cg12240761	0.442	0.185	0.257	8e-07	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13641198	0.798	0.485	0.313	8e-07	NA	Hypermethylated in FP vs FN
cg01733284	0.791	0.421	0.370	8e-07	OR10K2	Hypermethylated in FP vs FN
cg23013968	0.558	0.280	0.278	8e-07	RGMA	Hypermethylated in FP vs FN
cg14632140	0.518	0.174	0.344	8e-07	NA	Hypermethylated in FP vs FN
cg00965121	0.617	0.312	0.306	8e-07	NA	Hypermethylated in FP vs FN
cg17072494	0.806	0.493	0.313	8e-07	NA	Hypermethylated in FP vs FN
cg17076592	0.826	0.513	0.313	8e-07	KTI12	Hypermethylated in FP vs FN
cg15158106	0.698	0.441	0.256	8e-07	NA	Hypermethylated in FP vs FN
cg15442737	0.517	0.173	0.344	8e-07	NA	Hypermethylated in FP vs FN
cg26118943	0.744	0.432	0.312	8e-07	SNX18	Hypermethylated in FP vs FN
cg26747290	0.666	0.338	0.329	8e-07	NA	Hypermethylated in FP vs FN
cg23820770	0.546	0.196	0.350	8e-07	DYSF	Hypermethylated in FP vs FN
cg07423151	0.792	0.476	0.316	9e-07	NA	Hypermethylated in FP vs FN
cg10636246	0.739	0.454	0.285	9e-07	AIM2	Hypermethylated in FP vs FN
cg20566970	0.851	0.568	0.283	9e-07	NA	Hypermethylated in FP vs FN
cg22892904	0.740	0.417	0.323	9e-07	CBX2	Hypermethylated in FP vs FN
cg22118126	0.786	0.398	0.388	9e-07	LPIN3	Hypermethylated in FP vs FN
cg24298539	0.740	0.468	0.271	9e-07	NA	Hypermethylated in FP vs FN
cg16676413	0.484	0.183	0.301	9e-07	NA	Hypermethylated in FP vs FN
cg18437209	0.425	0.138	0.287	9e-07	NA	Hypermethylated in FP vs FN
cg02919090	0.721	0.458	0.263	9e-07	NA	Hypermethylated in FP vs FN
cg24692310	0.733	0.480	0.253	9e-07	NA	Hypermethylated in FP vs FN
cg17108141	0.827	0.441	0.386	9e-07	DDAH1	Hypermethylated in FP vs FN
cg18730174	0.811	0.417	0.394	9e-07	NA	Hypermethylated in FP vs FN
cg00822361	0.726	0.435	0.292	9e-07	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26363579	0.735	0.482	0.253	9e-07	NA	Hypermethylated in FP vs FN
cg27269149	0.826	0.556	0.269	9e-07	NA	Hypermethylated in FP vs FN
cg09829551	0.770	0.408	0.362	9e-07	NA	Hypermethylated in FP vs FN
cg11622162	0.709	0.427	0.282	9e-07	NA	Hypermethylated in FP vs FN
cg04473763	0.716	0.409	0.307	9e-07	NA	Hypermethylated in FP vs FN
cg06383135	0.672	0.349	0.323	9e-07	USP46	Hypermethylated in FP vs FN
cg22967008	0.585	0.321	0.264	9e-07	NA	Hypermethylated in FP vs FN
cg21958524	0.676	0.277	0.399	9e-07	NA	Hypermethylated in FP vs FN
cg07148341	0.661	0.371	0.290	9e-07	NA	Hypermethylated in FP vs FN
cg22388607	0.548	0.225	0.323	9e-07	NA	Hypermethylated in FP vs FN
cg01903327	0.719	0.465	0.254	9e-07	ACYP1	Hypermethylated in FP vs FN
cg25574750	0.836	0.515	0.321	9e-07	NA	Hypermethylated in FP vs FN
cg10520790	0.522	0.239	0.283	9e-07	NA	Hypermethylated in FP vs FN
cg10495754	0.603	0.249	0.354	9e-07	PROCA1	Hypermethylated in FP vs FN
cg17253459	0.844	0.554	0.290	9e-07	NA	Hypermethylated in FP vs FN
cg04486778	0.362	0.108	0.254	9e-07	NA	Hypermethylated in FP vs FN
cg01557951	0.691	0.382	0.309	9e-07	NA	Hypermethylated in FP vs FN
cg11956866	0.843	0.583	0.260	9e-07	NA	Hypermethylated in FP vs FN
cg06844526	0.756	0.429	0.327	1e-06	NA	Hypermethylated in FP vs FN
cg14093103	0.791	0.528	0.263	1e-06	NFIA	Hypermethylated in FP vs FN
cg24180402	0.633	0.248	0.385	1e-06	NA	Hypermethylated in FP vs FN
cg08968863	0.493	0.218	0.275	1e-06	NA	Hypermethylated in FP vs FN
cg13858127	0.927	0.608	0.318	1e-06	NA	Hypermethylated in FP vs FN
cg00116315	0.770	0.483	0.287	1e-06	TEAD3	Hypermethylated in FP vs FN
cg07335915	0.756	0.367	0.389	1e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05174759	0.774	0.478	0.296	1e-06	NA	Hypermethylated in FP vs FN
cg04830857	0.850	0.570	0.279	1e-06	LOC100287227	Hypermethylated in FP vs FN
cg23036947	0.526	0.203	0.324	1e-06	MXRA8	Hypermethylated in FP vs FN
cg19295840	0.801	0.467	0.333	1e-06	NA	Hypermethylated in FP vs FN
cg06096901	0.830	0.472	0.358	1e-06	NA	Hypermethylated in FP vs FN
cg00232092	0.869	0.591	0.278	1e-06	NA	Hypermethylated in FP vs FN
cg03709307	0.629	0.236	0.393	1e-06	NA	Hypermethylated in FP vs FN
cg23820945	0.702	0.366	0.336	1e-06	GRHL3	Hypermethylated in FP vs FN
cg00506828	0.724	0.417	0.307	1e-06	NA	Hypermethylated in FP vs FN
cg27238358	0.825	0.567	0.257	1e-06	NA	Hypermethylated in FP vs FN
cg12656666	0.573	0.262	0.311	1e-06	NA	Hypermethylated in FP vs FN
cg08175396	0.818	0.546	0.273	1e-06	NA	Hypermethylated in FP vs FN
cg09276451	0.827	0.502	0.325	1e-06	VASN	Hypermethylated in FP vs FN
cg06628109	0.691	0.308	0.383	1e-06	NA	Hypermethylated in FP vs FN
cg14170545	0.530	0.241	0.289	1e-06	NA	Hypermethylated in FP vs FN
cg10522979	0.633	0.350	0.283	1e-06	NA	Hypermethylated in FP vs FN
cg00613284	0.675	0.373	0.302	1e-06	NA	Hypermethylated in FP vs FN
cg03642518	0.792	0.449	0.343	1e-06	NA	Hypermethylated in FP vs FN
cg10547387	0.742	0.442	0.300	1e-06	NA	Hypermethylated in FP vs FN
cg08044454	0.692	0.370	0.322	1e-06	ELMO1	Hypermethylated in FP vs FN
cg22700848	0.516	0.246	0.270	1e-06	NA	Hypermethylated in FP vs FN
cg20711695	0.891	0.589	0.302	1e-06	NA	Hypermethylated in FP vs FN
cg02105211	0.780	0.529	0.250	1e-06	NA	Hypermethylated in FP vs FN
cg12117975	0.867	0.588	0.279	1e-06	NA	Hypermethylated in FP vs FN
cg07479303	0.849	0.577	0.273	1e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11676931	0.725	0.435	0.290	1e-06	NA	Hypermethylated in FP vs FN
cg19530831	0.627	0.260	0.367	1e-06	NA	Hypermethylated in FP vs FN
cg10558233	0.601	0.298	0.302	1e-06	NA	Hypermethylated in FP vs FN
cg03034070	0.562	0.287	0.274	1e-06	COL5A2	Hypermethylated in FP vs FN
cg08017409	0.758	0.506	0.252	1e-06	NA	Hypermethylated in FP vs FN
cg07979401	0.421	0.140	0.281	1e-06	NA	Hypermethylated in FP vs FN
cg22866426	0.726	0.299	0.427	1e-06	NA	Hypermethylated in FP vs FN
cg21851391	0.853	0.594	0.259	1e-06	DLGAP2	Hypermethylated in FP vs FN
cg08183307	0.609	0.325	0.284	1e-06	NA	Hypermethylated in FP vs FN
cg27224791	0.681	0.402	0.279	1e-06	HILS1	Hypermethylated in FP vs FN
cg24931355	0.678	0.397	0.281	1e-06	NA	Hypermethylated in FP vs FN
cg05534186	0.651	0.264	0.387	1e-06	CCNO	Hypermethylated in FP vs FN
cg09692368	0.844	0.543	0.301	1e-06	NA	Hypermethylated in FP vs FN
cg09790617	0.822	0.557	0.265	1e-06	NA	Hypermethylated in FP vs FN
cg09480446	0.787	0.509	0.278	1e-06	NA	Hypermethylated in FP vs FN
cg05415931	0.792	0.539	0.253	1e-06	NA	Hypermethylated in FP vs FN
cg08498585	0.673	0.402	0.271	1e-06	NA	Hypermethylated in FP vs FN
cg10177359	0.485	0.217	0.267	1e-06	NA	Hypermethylated in FP vs FN
cg12136387	0.649	0.342	0.306	1e-06	NA	Hypermethylated in FP vs FN
cg25654774	0.674	0.322	0.352	1e-06	NA	Hypermethylated in FP vs FN
cg00409696	0.604	0.319	0.285	1e-06	NA	Hypermethylated in FP vs FN
cg15611151	0.563	0.242	0.322	1e-06	NA	Hypermethylated in FP vs FN
cg18204158	0.711	0.362	0.350	1e-06	NA	Hypermethylated in FP vs FN
cg12405136	0.503	0.232	0.271	1e-06	MRGPRF	Hypermethylated in FP vs FN
cg10711871	0.768	0.486	0.282	1e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14078053	0.695	0.408	0.286	1e-06	IRS1	Hypermethylated in FP vs FN
cg14614296	0.853	0.582	0.271	1e-06	NA	Hypermethylated in FP vs FN
cg23117583	0.821	0.540	0.281	1e-06	NA	Hypermethylated in FP vs FN
cg27370028	0.724	0.471	0.253	1e-06	TCEA2	Hypermethylated in FP vs FN
cg03294619	0.625	0.182	0.443	1e-06	NKX2-5	Hypermethylated in FP vs FN
cg26893605	0.767	0.491	0.276	1e-06	NA	Hypermethylated in FP vs FN
cg07857444	0.894	0.592	0.302	1e-06	NA	Hypermethylated in FP vs FN
cg02584678	0.686	0.397	0.289	1e-06	NA	Hypermethylated in FP vs FN
cg11320910	0.814	0.476	0.338	1e-06	NA	Hypermethylated in FP vs FN
cg01252526	0.769	0.350	0.418	1e-06	NA	Hypermethylated in FP vs FN
cg24978725	0.621	0.311	0.311	1e-06	NA	Hypermethylated in FP vs FN
cg20914572	0.626	0.277	0.349	1e-06	PRRT1_PPT2	Hypermethylated in FP vs FN
cg27621997	0.765	0.434	0.331	1e-06	CCDC86	Hypermethylated in FP vs FN
cg25463863	0.820	0.511	0.310	1e-06	NA	Hypermethylated in FP vs FN
cg26539455	0.639	0.375	0.264	1e-06	NA	Hypermethylated in FP vs FN
cg15893779	0.680	0.352	0.329	1e-06	NA	Hypermethylated in FP vs FN
cg27598407	0.838	0.521	0.317	1e-06	NA	Hypermethylated in FP vs FN
cg16143889	0.757	0.490	0.267	1e-06	NA	Hypermethylated in FP vs FN
cg22617819	0.592	0.327	0.266	1e-06	NA	Hypermethylated in FP vs FN
cg22061561	0.843	0.582	0.261	1e-06	NA	Hypermethylated in FP vs FN
cg13777700	0.626	0.356	0.271	1e-06	NA	Hypermethylated in FP vs FN
cg11589520	0.371	0.114	0.257	1e-06	NA	Hypermethylated in FP vs FN
cg27578754	0.750	0.473	0.277	1e-06	PHF14	Hypermethylated in FP vs FN
cg07757094	0.719	0.422	0.297	1e-06	NA	Hypermethylated in FP vs FN
cg06009267	0.670	0.411	0.259	1e-06	EPPK1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20382675	0.786	0.506	0.280	1e-06	MIR1284	Hypermethylated in FP vs FN
cg09333221	0.519	0.232	0.288	1e-06	NA	Hypermethylated in FP vs FN
cg18056266	0.452	0.160	0.292	1e-06	COL8A1	Hypermethylated in FP vs FN
cg25712005	0.682	0.404	0.279	1e-06	NA	Hypermethylated in FP vs FN
cg22288798	0.772	0.476	0.296	1e-06	NA	Hypermethylated in FP vs FN
cg10784570	0.711	0.252	0.459	1e-06	NA	Hypermethylated in FP vs FN
cg05188868	0.539	0.137	0.402	1e-06	ENC1	Hypermethylated in FP vs FN
cg16012719	0.517	0.150	0.367	1e-06	NA	Hypermethylated in FP vs FN
cg03612914	0.823	0.548	0.275	1e-06	NA	Hypermethylated in FP vs FN
cg04751089	0.549	0.252	0.297	1e-06	NA	Hypermethylated in FP vs FN
cg03479705	0.502	0.235	0.267	1e-06	NA	Hypermethylated in FP vs FN
cg13223209	0.600	0.273	0.327	1e-06	NA	Hypermethylated in FP vs FN
cg26631039	0.632	0.179	0.453	1e-06	NA	Hypermethylated in FP vs FN
cg24935042	0.459	0.203	0.256	1e-06	CMPK2	Hypermethylated in FP vs FN
cg24901488	0.821	0.496	0.324	1e-06	NA	Hypermethylated in FP vs FN
cg18259003	0.685	0.251	0.434	1e-06	NA	Hypermethylated in FP vs FN
cg13038847	0.792	0.448	0.344	1e-06	NA	Hypermethylated in FP vs FN
cg02048412	0.626	0.240	0.386	1e-06	VASN	Hypermethylated in FP vs FN
cg24841318	0.720	0.351	0.369	1e-06	PROCA1	Hypermethylated in FP vs FN
cg14507310	0.623	0.283	0.339	1e-06	NA	Hypermethylated in FP vs FN
cg26450860	0.527	0.195	0.332	1e-06	NA	Hypermethylated in FP vs FN
cg24075113	0.433	0.110	0.322	1e-06	NA	Hypermethylated in FP vs FN
cg24289821	0.775	0.479	0.296	1e-06	NA	Hypermethylated in FP vs FN
cg24061122	0.622	0.336	0.286	1e-06	FAM53C	Hypermethylated in FP vs FN
cg22084182	0.836	0.580	0.256	1e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07324702	0.790	0.419	0.371	1e-06	NA	Hypermethylated in FP vs FN
cg15843262	0.439	0.101	0.338	1e-06	NA	Hypermethylated in FP vs FN
cg04375036	0.788	0.520	0.268	1e-06	PPP1CC	Hypermethylated in FP vs FN
cg05399036	0.734	0.443	0.291	1e-06	NA	Hypermethylated in FP vs FN
cg13214162	0.772	0.388	0.384	1e-06	NA	Hypermethylated in FP vs FN
cg04949225	0.486	0.222	0.263	1e-06	NA	Hypermethylated in FP vs FN
cg22193276	0.777	0.522	0.256	1e-06	NA	Hypermethylated in FP vs FN
cg09526758	0.578	0.199	0.379	1e-06	NA	Hypermethylated in FP vs FN
cg19505659	0.800	0.507	0.293	1e-06	NA	Hypermethylated in FP vs FN
cg23528037	0.819	0.495	0.324	1e-06	TMEM88	Hypermethylated in FP vs FN
cg10218546	0.798	0.493	0.305	1e-06	NA	Hypermethylated in FP vs FN
cg23416197	0.626	0.235	0.391	1e-06	NA	Hypermethylated in FP vs FN
cg09923954	0.592	0.323	0.269	1e-06	NA	Hypermethylated in FP vs FN
cg13056369	0.664	0.312	0.352	1e-06	NA	Hypermethylated in FP vs FN
cg04010471	0.375	0.075	0.300	1e-06	NA	Hypermethylated in FP vs FN
cg26710371	0.691	0.431	0.260	1e-06	NA	Hypermethylated in FP vs FN
cg01613249	0.746	0.409	0.337	1e-06	NA	Hypermethylated in FP vs FN
cg17073733	0.567	0.200	0.367	1e-06	NA	Hypermethylated in FP vs FN
cg08446346	0.857	0.590	0.267	1e-06	NA	Hypermethylated in FP vs FN
cg15821496	0.862	0.556	0.306	1e-06	NA	Hypermethylated in FP vs FN
cg23873525	0.722	0.363	0.359	2e-06	NA	Hypermethylated in FP vs FN
cg16793394	0.750	0.341	0.410	2e-06	OTX2	Hypermethylated in FP vs FN
cg12860686	0.700	0.279	0.420	2e-06	NA	Hypermethylated in FP vs FN
cg01637404	0.635	0.297	0.338	2e-06	NA	Hypermethylated in FP vs FN
cg26267310	0.636	0.263	0.373	2e-06	HSD17B14	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22626525	0.607	0.295	0.311	2e-06	NA	Hypermethylated in FP vs FN
cg03907855	0.938	0.687	0.251	2e-06	NA	Hypermethylated in FP vs FN
cg23684449	0.787	0.523	0.264	2e-06	GPT2	Hypermethylated in FP vs FN
cg24974704	0.615	0.254	0.361	2e-06	NA	Hypermethylated in FP vs FN
cg06163425	0.420	0.161	0.259	2e-06	NA	Hypermethylated in FP vs FN
cg02355680	0.823	0.484	0.339	2e-06	NA	Hypermethylated in FP vs FN
cg04223863	0.602	0.308	0.294	2e-06	NA	Hypermethylated in FP vs FN
cg26195495	0.743	0.379	0.364	2e-06	NA	Hypermethylated in FP vs FN
cg00110688	0.371	0.120	0.250	2e-06	NUDT4_NUDT4P1	Hypermethylated in FP vs FN
cg04944806	0.407	0.065	0.342	2e-06	NA	Hypermethylated in FP vs FN
cg14306344	0.817	0.522	0.295	2e-06	NA	Hypermethylated in FP vs FN
cg26620314	0.813	0.548	0.265	2e-06	NA	Hypermethylated in FP vs FN
cg22509138	0.632	0.335	0.297	2e-06	NA	Hypermethylated in FP vs FN
cg00443981	0.819	0.497	0.322	2e-06	C17orf64	Hypermethylated in FP vs FN
cg05967710	0.842	0.542	0.300	2e-06	NA	Hypermethylated in FP vs FN
cg17480467	0.734	0.272	0.462	2e-06	NA	Hypermethylated in FP vs FN
cg02637247	0.711	0.387	0.323	2e-06	NA	Hypermethylated in FP vs FN
cg05229649	0.724	0.332	0.391	2e-06	NA	Hypermethylated in FP vs FN
cg14701122	0.700	0.423	0.277	2e-06	NA	Hypermethylated in FP vs FN
cg13385568	0.868	0.574	0.294	2e-06	NA	Hypermethylated in FP vs FN
cg25433316	0.405	0.138	0.266	2e-06	NA	Hypermethylated in FP vs FN
cg09832613	0.754	0.421	0.333	2e-06	NA	Hypermethylated in FP vs FN
cg14812313	0.909	0.635	0.274	2e-06	NA	Hypermethylated in FP vs FN
cg16844941	0.658	0.270	0.388	2e-06	NA	Hypermethylated in FP vs FN
cg11892345	0.896	0.637	0.259	2e-06	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06204745	0.612	0.150	0.462	2e-06	NA	Hypermethylated in FP vs FN
cg27634264	0.696	0.362	0.334	2e-06	NA	Hypermethylated in FP vs FN
cg13385220	0.835	0.473	0.362	2e-06	NA	Hypermethylated in FP vs FN
cg00157016	0.849	0.585	0.264	2e-06	NA	Hypermethylated in FP vs FN
cg15331383	0.605	0.283	0.321	2e-06	NA	Hypermethylated in FP vs FN
cg09011891	0.565	0.299	0.267	2e-06	NA	Hypermethylated in FP vs FN
cg18450555	0.421	0.100	0.322	2e-06	FBRSL1	Hypermethylated in FP vs FN
cg24476826	0.659	0.368	0.291	2e-06	NA	Hypermethylated in FP vs FN
cg13954292	0.893	0.593	0.300	2e-06	ZFR	Hypermethylated in FP vs FN
cg18103043	0.822	0.556	0.265	2e-06	NCRNA00176	Hypermethylated in FP vs FN
cg24453118	0.727	0.397	0.330	2e-06	NA	Hypermethylated in FP vs FN
cg16616971	0.703	0.378	0.325	2e-06	NA	Hypermethylated in FP vs FN
cg13221347	0.679	0.280	0.399	2e-06	NA	Hypermethylated in FP vs FN
cg07668501	0.466	0.130	0.336	2e-06	NA	Hypermethylated in FP vs FN
cg04115307	0.751	0.491	0.260	2e-06	NA	Hypermethylated in FP vs FN
cg27638615	0.627	0.300	0.326	2e-06	FZD7	Hypermethylated in FP vs FN
cg06266189	0.689	0.337	0.352	2e-06	NA	Hypermethylated in FP vs FN
cg00455523	0.667	0.371	0.297	2e-06	NA	Hypermethylated in FP vs FN
cg01870865	0.710	0.333	0.377	2e-06	TREX1	Hypermethylated in FP vs FN
cg07357827	0.651	0.334	0.317	2e-06	TIMP4	Hypermethylated in FP vs FN
cg26779985	0.640	0.287	0.353	2e-06	NA	Hypermethylated in FP vs FN
cg13750264	0.739	0.425	0.314	2e-06	NA	Hypermethylated in FP vs FN
cg26277599	0.750	0.437	0.313	2e-06	NA	Hypermethylated in FP vs FN
cg11283983	0.581	0.300	0.281	2e-06	SLC1A3	Hypermethylated in FP vs FN
cg00532802	0.579	0.193	0.386	2e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16296754	0.581	0.160	0.422	2e-06	NA	Hypermethylated in FP vs FN
cg22462235	0.613	0.328	0.285	2e-06	LEFTY2	Hypermethylated in FP vs FN
cg26887085	0.860	0.598	0.262	2e-06	CNR1	Hypermethylated in FP vs FN
cg01395754	0.777	0.494	0.283	2e-06	NA	Hypermethylated in FP vs FN
cg16964478	0.812	0.458	0.353	2e-06	NA	Hypermethylated in FP vs FN
cg23605284	0.775	0.431	0.344	2e-06	NA	Hypermethylated in FP vs FN
cg15695155	0.841	0.539	0.302	2e-06	NA	Hypermethylated in FP vs FN
cg10069121	0.569	0.307	0.262	2e-06	S100A11	Hypermethylated in FP vs FN
cg10835417	0.864	0.599	0.265	2e-06	NA	Hypermethylated in FP vs FN
cg27260684	0.786	0.438	0.349	2e-06	NA	Hypermethylated in FP vs FN
cg13302994	0.491	0.217	0.274	2e-06	NA	Hypermethylated in FP vs FN
cg26511108	0.586	0.297	0.289	2e-06	BMI1	Hypermethylated in FP vs FN
cg20811607	0.873	0.541	0.332	2e-06	SMPD2	Hypermethylated in FP vs FN
cg00509187	0.706	0.442	0.263	2e-06	ENOX1	Hypermethylated in FP vs FN
cg26112871	0.659	0.332	0.327	2e-06	NA	Hypermethylated in FP vs FN
cg05220968	0.676	0.357	0.318	2e-06	EPM2A	Hypermethylated in FP vs FN
cg17400113	0.766	0.471	0.295	2e-06	RGMA	Hypermethylated in FP vs FN
cg25839439	0.828	0.507	0.321	2e-06	NA	Hypermethylated in FP vs FN
cg03218479	0.745	0.485	0.261	2e-06	NA	Hypermethylated in FP vs FN
cg23700278	0.659	0.308	0.351	2e-06	NA	Hypermethylated in FP vs FN
cg11252310	0.605	0.320	0.285	2e-06	NA	Hypermethylated in FP vs FN
cg15455864	0.414	0.124	0.291	2e-06	RSPH6A	Hypermethylated in FP vs FN
cg16496024	0.792	0.497	0.295	2e-06	PCP4	Hypermethylated in FP vs FN
cg05116002	0.717	0.445	0.272	2e-06	NA	Hypermethylated in FP vs FN
cg19824833	0.703	0.413	0.290	2e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13719443	0.563	0.260	0.303	2e-06	NA	Hypermethylated in FP vs FN
cg24851651	0.748	0.485	0.263	2e-06	NA	Hypermethylated in FP vs FN
cg06320828	0.708	0.332	0.376	2e-06	NA	Hypermethylated in FP vs FN
cg25221239	0.787	0.418	0.370	2e-06	NA	Hypermethylated in FP vs FN
cg19100779	0.810	0.532	0.278	2e-06	ASB4	Hypermethylated in FP vs FN
cg13870539	0.695	0.398	0.297	2e-06	PLCE1	Hypermethylated in FP vs FN
cg04371130	0.733	0.441	0.292	2e-06	NA	Hypermethylated in FP vs FN
cg05455971	0.871	0.537	0.333	2e-06	NA	Hypermethylated in FP vs FN
cg18403673	0.679	0.298	0.382	2e-06	NA	Hypermethylated in FP vs FN
cg12763668	0.789	0.531	0.258	2e-06	NA	Hypermethylated in FP vs FN
cg06392241	0.407	0.150	0.257	2e-06	NUDT4_NUDT4P1	Hypermethylated in FP vs FN
cg23890800	0.557	0.130	0.427	2e-06	FBRSL1	Hypermethylated in FP vs FN
cg07114886	0.605	0.305	0.299	2e-06	NA	Hypermethylated in FP vs FN
cg03083146	0.865	0.566	0.299	2e-06	NA	Hypermethylated in FP vs FN
cg23671708	0.708	0.378	0.330	2e-06	TMEM88	Hypermethylated in FP vs FN
cg18200150	0.694	0.386	0.309	2e-06	NA	Hypermethylated in FP vs FN
cg15358549	0.869	0.535	0.333	2e-06	NA	Hypermethylated in FP vs FN
cg09888283	0.674	0.403	0.271	2e-06	NA	Hypermethylated in FP vs FN
cg02840964	0.692	0.429	0.263	2e-06	NA	Hypermethylated in FP vs FN
cg09130674	0.639	0.347	0.292	2e-06	NA	Hypermethylated in FP vs FN
cg21649828	0.784	0.486	0.298	2e-06	NA	Hypermethylated in FP vs FN
cg02524863	0.645	0.282	0.362	2e-06	NA	Hypermethylated in FP vs FN
cg23171099	0.810	0.434	0.376	2e-06	NA	Hypermethylated in FP vs FN
cg12629515	0.673	0.366	0.307	2e-06	HIST1H3J_HIST1H2BO	Hypermethylated in FP vs FN
cg10585661	0.741	0.374	0.367	2e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26069353	0.613	0.282	0.331	2e-06	COCH	Hypermethylated in FP vs FN
cg00839129	0.608	0.288	0.320	2e-06	NA	Hypermethylated in FP vs FN
cg17049418	0.669	0.381	0.288	2e-06	NA	Hypermethylated in FP vs FN
cg01539484	0.801	0.539	0.262	2e-06	NA	Hypermethylated in FP vs FN
cg02989257	0.778	0.473	0.306	2e-06	NA	Hypermethylated in FP vs FN
cg19927885	0.745	0.392	0.353	2e-06	LPIN3	Hypermethylated in FP vs FN
cg23117647	0.726	0.395	0.332	2e-06	NA	Hypermethylated in FP vs FN
cg08231870	0.747	0.318	0.430	2e-06	NA	Hypermethylated in FP vs FN
cg10078639	0.552	0.237	0.315	2e-06	ABLIM1	Hypermethylated in FP vs FN
cg14081465	0.676	0.260	0.416	2e-06	NA	Hypermethylated in FP vs FN
cg06759255	0.674	0.392	0.282	2e-06	NA	Hypermethylated in FP vs FN
cg08814536	0.538	0.275	0.263	2e-06	NA	Hypermethylated in FP vs FN
cg00830086	0.786	0.480	0.306	2e-06	NA	Hypermethylated in FP vs FN
cg06441398	0.773	0.475	0.298	2e-06	NA	Hypermethylated in FP vs FN
cg07044938	0.834	0.574	0.260	2e-06	NA	Hypermethylated in FP vs FN
cg16254394	0.514	0.198	0.316	2e-06	DIO2	Hypermethylated in FP vs FN
cg21249771	0.677	0.413	0.263	2e-06	NA	Hypermethylated in FP vs FN
cg21583016	0.621	0.303	0.318	2e-06	NA	Hypermethylated in FP vs FN
cg07869907	0.794	0.471	0.323	2e-06	NA	Hypermethylated in FP vs FN
cg12774946	0.713	0.352	0.361	2e-06	NA	Hypermethylated in FP vs FN
cg13408752	0.773	0.422	0.351	2e-06	NA	Hypermethylated in FP vs FN
cg14894097	0.596	0.273	0.323	2e-06	NA	Hypermethylated in FP vs FN
cg23418102	0.799	0.467	0.331	2e-06	NA	Hypermethylated in FP vs FN
cg11332928	0.594	0.262	0.332	2e-06	BTBD19_TCTEX1D4	Hypermethylated in FP vs FN
cg26980692	0.591	0.322	0.269	2e-06	SLC15A3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25412546	0.553	0.201	0.353	2e-06	NA	Hypermethylated in FP vs FN
cg01024303	0.805	0.539	0.265	2e-06	NA	Hypermethylated in FP vs FN
cg18443437	0.607	0.277	0.331	2e-06	NA	Hypermethylated in FP vs FN
cg03793625	0.460	0.193	0.267	2e-06	NA	Hypermethylated in FP vs FN
cg17726720	0.808	0.462	0.347	2e-06	NA	Hypermethylated in FP vs FN
cg10264791	0.755	0.501	0.255	2e-06	NA	Hypermethylated in FP vs FN
cg24340081	0.718	0.345	0.373	2e-06	NA	Hypermethylated in FP vs FN
cg15227522	0.813	0.536	0.277	2e-06	NA	Hypermethylated in FP vs FN
cg22778120	0.557	0.301	0.257	2e-06	NA	Hypermethylated in FP vs FN
cg26942124	0.676	0.323	0.353	2e-06	ZNF608	Hypermethylated in FP vs FN
cg11239749	0.718	0.388	0.329	2e-06	NA	Hypermethylated in FP vs FN
cg14331765	0.543	0.271	0.272	2e-06	NA	Hypermethylated in FP vs FN
cg07041720	0.553	0.269	0.284	2e-06	LFNG	Hypermethylated in FP vs FN
cg20128323	0.638	0.378	0.260	2e-06	NA	Hypermethylated in FP vs FN
cg07196637	0.802	0.519	0.283	2e-06	F11	Hypermethylated in FP vs FN
cg04621728	0.746	0.455	0.291	2e-06	NA	Hypermethylated in FP vs FN
cg14676825	0.674	0.264	0.410	2e-06	PROCA1	Hypermethylated in FP vs FN
cg18539461	0.770	0.353	0.418	2e-06	NA	Hypermethylated in FP vs FN
cg02896757	0.479	0.216	0.263	2e-06	NA	Hypermethylated in FP vs FN
cg14288335	0.735	0.459	0.277	2e-06	NA	Hypermethylated in FP vs FN
cg01139503	0.780	0.489	0.291	2e-06	NA	Hypermethylated in FP vs FN
cg22698744	0.780	0.333	0.447	2e-06	NA	Hypermethylated in FP vs FN
cg16802855	0.893	0.613	0.280	2e-06	NA	Hypermethylated in FP vs FN
cg19225602	0.678	0.348	0.330	2e-06	NA	Hypermethylated in FP vs FN
cg01312445	0.707	0.356	0.351	2e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08826839	0.512	0.240	0.272	2e-06	FAP	Hypermethylated in FP vs FN
cg24180162	0.617	0.341	0.275	2e-06	HILS1	Hypermethylated in FP vs FN
cg06027254	0.674	0.310	0.364	2e-06	NA	Hypermethylated in FP vs FN
cg14009632	0.648	0.367	0.281	2e-06	TJAP1	Hypermethylated in FP vs FN
cg05325480	0.704	0.428	0.276	2e-06	NA	Hypermethylated in FP vs FN
cg03278271	0.826	0.525	0.301	2e-06	NA	Hypermethylated in FP vs FN
cg21479131	0.578	0.307	0.271	2e-06	NA	Hypermethylated in FP vs FN
cg18098769	0.739	0.424	0.315	2e-06	NA	Hypermethylated in FP vs FN
cg00370303	0.542	0.125	0.417	2e-06	FBRSL1	Hypermethylated in FP vs FN
cg17161421	0.663	0.384	0.279	2e-06	PRRT1_PPT2	Hypermethylated in FP vs FN
cg16365842	0.692	0.360	0.332	2e-06	NA	Hypermethylated in FP vs FN
cg27516404	0.636	0.354	0.283	2e-06	NA	Hypermethylated in FP vs FN
cg25981350	0.667	0.340	0.327	2e-06	NA	Hypermethylated in FP vs FN
cg17713161	0.765	0.428	0.337	2e-06	NA	Hypermethylated in FP vs FN
cg02685896	0.612	0.212	0.401	2e-06	PROCA1	Hypermethylated in FP vs FN
cg24569831	0.806	0.451	0.355	2e-06	RGMA	Hypermethylated in FP vs FN
cg18027683	0.571	0.257	0.314	2e-06	NA	Hypermethylated in FP vs FN
cg26927190	0.464	0.166	0.298	2e-06	NA	Hypermethylated in FP vs FN
cg03323462	0.584	0.217	0.368	2e-06	NA	Hypermethylated in FP vs FN
cg10054197	0.484	0.109	0.375	2e-06	NA	Hypermethylated in FP vs FN
cg06800222	0.734	0.441	0.293	2e-06	NA	Hypermethylated in FP vs FN
cg05698228	0.445	0.101	0.344	2e-06	ENC1	Hypermethylated in FP vs FN
cg07277633	0.685	0.320	0.365	2e-06	NA	Hypermethylated in FP vs FN
cg02993069	0.478	0.184	0.294	2e-06	NA	Hypermethylated in FP vs FN
cg04154903	0.501	0.122	0.379	2e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23766996	0.812	0.510	0.302	3e-06	GRM3	Hypermethylated in FP vs FN
cg01038750	0.451	0.167	0.284	3e-06	RBMS3	Hypermethylated in FP vs FN
cg02538199	0.392	0.126	0.266	3e-06	PAX5	Hypermethylated in FP vs FN
cg05038469	0.695	0.383	0.312	3e-06	NA	Hypermethylated in FP vs FN
cg09091185	0.808	0.512	0.296	3e-06	NA	Hypermethylated in FP vs FN
cg08993690	0.724	0.433	0.292	3e-06	NA	Hypermethylated in FP vs FN
cg03555157	0.623	0.302	0.321	3e-06	LIMS2	Hypermethylated in FP vs FN
cg16702747	0.846	0.545	0.301	3e-06	NA	Hypermethylated in FP vs FN
cg00079219	0.498	0.174	0.324	3e-06	NA	Hypermethylated in FP vs FN
cg20153196	0.539	0.190	0.349	3e-06	NA	Hypermethylated in FP vs FN
cg22009908	0.587	0.287	0.300	3e-06	NA	Hypermethylated in FP vs FN
cg01309213	0.772	0.452	0.320	3e-06	PDIA2	Hypermethylated in FP vs FN
cg01798385	0.743	0.485	0.258	3e-06	NA	Hypermethylated in FP vs FN
cg06197769	0.478	0.222	0.256	3e-06	CDKN1B	Hypermethylated in FP vs FN
cg01512719	0.888	0.559	0.330	3e-06	NA	Hypermethylated in FP vs FN
cg02481307	0.675	0.394	0.282	3e-06	LETM1	Hypermethylated in FP vs FN
cg24898738	0.850	0.504	0.346	3e-06	NA	Hypermethylated in FP vs FN
cg21887097	0.566	0.312	0.254	3e-06	NA	Hypermethylated in FP vs FN
cg02240539	0.739	0.416	0.323	3e-06	NA	Hypermethylated in FP vs FN
cg08870093	0.607	0.283	0.324	3e-06	NA	Hypermethylated in FP vs FN
cg07888912	0.614	0.329	0.285	3e-06	KANK2	Hypermethylated in FP vs FN
cg23360019	0.747	0.419	0.328	3e-06	NA	Hypermethylated in FP vs FN
cg06979020	0.597	0.344	0.253	3e-06	NA	Hypermethylated in FP vs FN
cg11601254	0.800	0.448	0.352	3e-06	NA	Hypermethylated in FP vs FN
cg02750065	0.587	0.281	0.306	3e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10059959	0.425	0.124	0.301	3e-06	PAX5	Hypermethylated in FP vs FN
cg21810004	0.829	0.567	0.262	3e-06	NA	Hypermethylated in FP vs FN
cg10813544	0.401	0.089	0.313	3e-06	NA	Hypermethylated in FP vs FN
cg04123578	0.628	0.375	0.253	3e-06	NA	Hypermethylated in FP vs FN
cg09963814	0.692	0.403	0.289	3e-06	NA	Hypermethylated in FP vs FN
cg23154832	0.792	0.502	0.290	3e-06	NA	Hypermethylated in FP vs FN
cg09920605	0.677	0.385	0.292	3e-06	NA	Hypermethylated in FP vs FN
cg04783764	0.739	0.449	0.289	3e-06	NA	Hypermethylated in FP vs FN
cg02172819	0.551	0.301	0.251	3e-06	NA	Hypermethylated in FP vs FN
cg07872300	0.843	0.574	0.269	3e-06	NA	Hypermethylated in FP vs FN
cg04291946	0.677	0.410	0.267	3e-06	NA	Hypermethylated in FP vs FN
cg27196808	0.446	0.104	0.341	3e-06	WNT1	Hypermethylated in FP vs FN
cg00106345	0.766	0.331	0.435	3e-06	NA	Hypermethylated in FP vs FN
cg19107264	0.803	0.508	0.295	3e-06	NA	Hypermethylated in FP vs FN
cg05353884	0.811	0.406	0.405	3e-06	NA	Hypermethylated in FP vs FN
cg18512156	0.457	0.139	0.319	3e-06	NKX2-5	Hypermethylated in FP vs FN
cg03565240	0.899	0.619	0.280	3e-06	NA	Hypermethylated in FP vs FN
cg14480035	0.692	0.436	0.256	3e-06	NA	Hypermethylated in FP vs FN
cg05929767	0.665	0.397	0.268	3e-06	NA	Hypermethylated in FP vs FN
cg11711816	0.727	0.372	0.355	3e-06	NA	Hypermethylated in FP vs FN
cg11845292	0.696	0.423	0.273	3e-06	NA	Hypermethylated in FP vs FN
cg25304198	0.658	0.359	0.299	3e-06	NA	Hypermethylated in FP vs FN
cg26539468	0.775	0.507	0.268	3e-06	NA	Hypermethylated in FP vs FN
cg18501230	0.759	0.470	0.289	3e-06	NA	Hypermethylated in FP vs FN
cg08814105	0.514	0.125	0.389	3e-06	NKX2-5	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03794617	0.835	0.503	0.332	3e-06	NA	Hypermethylated in FP vs FN
cg05254651	0.746	0.495	0.252	3e-06	NA	Hypermethylated in FP vs FN
cg04050824	0.783	0.382	0.401	3e-06	NA	Hypermethylated in FP vs FN
cg22632756	0.584	0.298	0.286	3e-06	PNOC	Hypermethylated in FP vs FN
cg18082515	0.531	0.212	0.319	3e-06	NA	Hypermethylated in FP vs FN
cg23218957	0.565	0.313	0.252	3e-06	NA	Hypermethylated in FP vs FN
cg02532341	0.549	0.229	0.320	3e-06	NA	Hypermethylated in FP vs FN
cg08012275	0.864	0.499	0.365	3e-06	NA	Hypermethylated in FP vs FN
cg12509499	0.843	0.575	0.268	3e-06	NA	Hypermethylated in FP vs FN
cg09232555	0.830	0.417	0.413	3e-06	NA	Hypermethylated in FP vs FN
cg11274172	0.660	0.337	0.324	3e-06	NA	Hypermethylated in FP vs FN
cg02625138	0.664	0.400	0.264	3e-06	NA	Hypermethylated in FP vs FN
cg06357561	0.457	0.191	0.267	3e-06	STAT5A	Hypermethylated in FP vs FN
cg17494438	0.600	0.341	0.259	3e-06	DRGX	Hypermethylated in FP vs FN
cg20754348	0.617	0.326	0.291	3e-06	NR2F2	Hypermethylated in FP vs FN
cg16383291	0.809	0.507	0.301	3e-06	NA	Hypermethylated in FP vs FN
cg11199137	0.465	0.124	0.341	3e-06	ENC1	Hypermethylated in FP vs FN
cg03254465	0.575	0.203	0.373	3e-06	NA	Hypermethylated in FP vs FN
cg15853812	0.787	0.518	0.268	3e-06	TMEM88	Hypermethylated in FP vs FN
cg27523780	0.853	0.518	0.335	3e-06	NA	Hypermethylated in FP vs FN
cg03228449	0.768	0.430	0.339	3e-06	NA	Hypermethylated in FP vs FN
cg26807961	0.421	0.167	0.254	3e-06	NA	Hypermethylated in FP vs FN
cg03809847	0.627	0.365	0.262	3e-06	NA	Hypermethylated in FP vs FN
cg27241808	0.525	0.100	0.425	3e-06	NA	Hypermethylated in FP vs FN
cg13670057	0.561	0.235	0.326	3e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07139350	0.842	0.545	0.297	3e-06	NA	Hypermethylated in FP vs FN
cg13411784	0.530	0.224	0.306	3e-06	WDR85	Hypermethylated in FP vs FN
cg23271831	0.543	0.203	0.340	3e-06	COL1A2	Hypermethylated in FP vs FN
cg26164879	0.701	0.336	0.365	3e-06	NA	Hypermethylated in FP vs FN
cg12719844	0.635	0.366	0.269	3e-06	NA	Hypermethylated in FP vs FN
cg17260706	0.544	0.277	0.266	3e-06	BCL9L	Hypermethylated in FP vs FN
cg01987224	0.747	0.452	0.295	3e-06	NA	Hypermethylated in FP vs FN
cg19794507	0.524	0.202	0.322	3e-06	NA	Hypermethylated in FP vs FN
cg14566901	0.771	0.459	0.313	3e-06	NA	Hypermethylated in FP vs FN
cg12945444	0.815	0.402	0.413	3e-06	NA	Hypermethylated in FP vs FN
cg20125920	0.812	0.517	0.294	3e-06	NA	Hypermethylated in FP vs FN
cg09296742	0.732	0.465	0.267	3e-06	NA	Hypermethylated in FP vs FN
cg03214217	0.737	0.398	0.339	3e-06	NA	Hypermethylated in FP vs FN
cg07095347	0.583	0.326	0.258	3e-06	NA	Hypermethylated in FP vs FN
cg20763234	0.602	0.347	0.255	3e-06	NA	Hypermethylated in FP vs FN
cg13969674	0.600	0.283	0.317	3e-06	NA	Hypermethylated in FP vs FN
cg07638689	0.565	0.280	0.284	3e-06	NA	Hypermethylated in FP vs FN
cg18995558	0.766	0.451	0.316	3e-06	NA	Hypermethylated in FP vs FN
cg23097155	0.498	0.131	0.367	3e-06	FBRSL1	Hypermethylated in FP vs FN
cg05831188	0.590	0.327	0.263	3e-06	NA	Hypermethylated in FP vs FN
cg20122518	0.577	0.290	0.287	3e-06	NA	Hypermethylated in FP vs FN
cg08887138	0.818	0.480	0.338	3e-06	NA	Hypermethylated in FP vs FN
cg23978557	0.782	0.481	0.301	3e-06	SMPD2	Hypermethylated in FP vs FN
cg15022739	0.734	0.438	0.296	3e-06	NA	Hypermethylated in FP vs FN
cg08857479	0.545	0.235	0.310	3e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00417807	0.837	0.508	0.328	3e-06	NA	Hypermethylated in FP vs FN
cg12507655	0.480	0.150	0.330	3e-06	TRIP6	Hypermethylated in FP vs FN
cg26860182	0.546	0.153	0.393	3e-06	FBRSL1	Hypermethylated in FP vs FN
cg25369980	0.451	0.082	0.369	4e-06	ENC1	Hypermethylated in FP vs FN
cg23478293	0.727	0.375	0.352	4e-06	OTX2OS1	Hypermethylated in FP vs FN
cg06892898	0.458	0.208	0.250	4e-06	ELMO1	Hypermethylated in FP vs FN
cg23661183	0.529	0.173	0.356	4e-06	ABLIM1	Hypermethylated in FP vs FN
cg02344497	0.774	0.476	0.298	4e-06	NA	Hypermethylated in FP vs FN
cg13923669	0.575	0.221	0.353	4e-06	NA	Hypermethylated in FP vs FN
cg00658440	0.694	0.404	0.290	4e-06	NA	Hypermethylated in FP vs FN
cg07536627	0.753	0.489	0.264	4e-06	NA	Hypermethylated in FP vs FN
cg27196467	0.501	0.200	0.301	4e-06	KCNIP4	Hypermethylated in FP vs FN
cg03969996	0.539	0.235	0.304	4e-06	PNMAL2	Hypermethylated in FP vs FN
cg25552768	0.638	0.314	0.323	4e-06	LEFTY1	Hypermethylated in FP vs FN
cg01696226	0.593	0.142	0.451	4e-06	NA	Hypermethylated in FP vs FN
cg02805890	0.449	0.182	0.267	4e-06	NA	Hypermethylated in FP vs FN
cg11453712	0.635	0.207	0.427	4e-06	PHPT1	Hypermethylated in FP vs FN
cg25801292	0.486	0.192	0.294	4e-06	KEAP1	Hypermethylated in FP vs FN
cg03179291	0.726	0.283	0.443	4e-06	NA	Hypermethylated in FP vs FN
cg05898591	0.504	0.167	0.337	4e-06	NA	Hypermethylated in FP vs FN
cg25020459	0.384	0.099	0.285	4e-06	NA	Hypermethylated in FP vs FN
cg23395341	0.790	0.438	0.352	4e-06	NA	Hypermethylated in FP vs FN
cg21930938	0.804	0.487	0.317	4e-06	NA	Hypermethylated in FP vs FN
cg03678039	0.598	0.294	0.305	4e-06	NA	Hypermethylated in FP vs FN
cg18741166	0.754	0.502	0.252	4e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23449696	0.756	0.353	0.403	4e-06	ZIC1	Hypermethylated in FP vs FN
cg19944656	0.506	0.160	0.346	4e-06	NA	Hypermethylated in FP vs FN
cg02750262	0.612	0.226	0.385	4e-06	NA	Hypermethylated in FP vs FN
cg09659697	0.533	0.183	0.349	4e-06	CCNO	Hypermethylated in FP vs FN
cg15206981	0.637	0.370	0.268	4e-06	NA	Hypermethylated in FP vs FN
cg16785381	0.811	0.433	0.378	4e-06	NA	Hypermethylated in FP vs FN
cg24036292	0.865	0.579	0.286	4e-06	NA	Hypermethylated in FP vs FN
cg07206712	0.555	0.166	0.390	4e-06	NA	Hypermethylated in FP vs FN
cg10024583	0.780	0.410	0.370	4e-06	TBKBP1	Hypermethylated in FP vs FN
cg04092581	0.740	0.455	0.285	4e-06	NA	Hypermethylated in FP vs FN
cg21763873	0.815	0.561	0.254	4e-06	NA	Hypermethylated in FP vs FN
cg03960279	0.780	0.489	0.292	4e-06	NA	Hypermethylated in FP vs FN
cg16662768	0.412	0.150	0.262	4e-06	NA	Hypermethylated in FP vs FN
cg03065447	0.423	0.122	0.302	4e-06	NA	Hypermethylated in FP vs FN
cg06836406	0.728	0.378	0.350	4e-06	NA	Hypermethylated in FP vs FN
cg16793525	0.797	0.524	0.273	4e-06	NA	Hypermethylated in FP vs FN
cg06174599	0.593	0.243	0.350	4e-06	NA	Hypermethylated in FP vs FN
cg01643123	0.396	0.116	0.280	4e-06	NA	Hypermethylated in FP vs FN
cg27234090	0.460	0.199	0.261	4e-06	NA	Hypermethylated in FP vs FN
cg10670787	0.853	0.563	0.289	4e-06	NA	Hypermethylated in FP vs FN
cg09901035	0.719	0.386	0.333	4e-06	NA	Hypermethylated in FP vs FN
cg00758701	0.742	0.411	0.331	4e-06	NA	Hypermethylated in FP vs FN
cg25939380	0.803	0.442	0.361	4e-06	NA	Hypermethylated in FP vs FN
cg24602369	0.684	0.398	0.286	4e-06	NA	Hypermethylated in FP vs FN
cg07671011	0.716	0.370	0.346	4e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03566682	0.881	0.618	0.262	4e-06	NA	Hypermethylated in FP vs FN
cg03421353	0.770	0.512	0.258	4e-06	NA	Hypermethylated in FP vs FN
cg10107248	0.813	0.546	0.268	4e-06	NA	Hypermethylated in FP vs FN
cg00866870	0.615	0.316	0.299	4e-06	NA	Hypermethylated in FP vs FN
cg11697111	0.588	0.262	0.327	4e-06	GPER	Hypermethylated in FP vs FN
cg11117438	0.584	0.269	0.316	4e-06	NA	Hypermethylated in FP vs FN
cg17119279	0.667	0.338	0.329	4e-06	NA	Hypermethylated in FP vs FN
cg01120434	0.804	0.547	0.257	4e-06	NA	Hypermethylated in FP vs FN
cg16713743	0.690	0.315	0.376	4e-06	OLIG2	Hypermethylated in FP vs FN
cg16335919	0.705	0.414	0.290	4e-06	NA	Hypermethylated in FP vs FN
cg02560388	0.704	0.367	0.338	4e-06	NA	Hypermethylated in FP vs FN
cg21466107	0.613	0.339	0.275	4e-06	NA	Hypermethylated in FP vs FN
cg25818763	0.735	0.373	0.362	4e-06	NA	Hypermethylated in FP vs FN
cg07563611	0.593	0.313	0.280	4e-06	NA	Hypermethylated in FP vs FN
cg10513852	0.592	0.310	0.281	4e-06	MYF5	Hypermethylated in FP vs FN
cg02004337	0.633	0.302	0.331	4e-06	NA	Hypermethylated in FP vs FN
cg26558591	0.770	0.440	0.331	4e-06	NA	Hypermethylated in FP vs FN
cg13713537	0.879	0.575	0.304	4e-06	NA	Hypermethylated in FP vs FN
cg13071386	0.402	0.139	0.263	4e-06	NA	Hypermethylated in FP vs FN
cg18442019	0.740	0.435	0.304	4e-06	NA	Hypermethylated in FP vs FN
cg18580322	0.756	0.473	0.283	4e-06	G2E3	Hypermethylated in FP vs FN
cg04129469	0.722	0.367	0.355	4e-06	PAX7	Hypermethylated in FP vs FN
cg13407169	0.743	0.421	0.322	4e-06	LBX2	Hypermethylated in FP vs FN
cg14409023	0.531	0.145	0.386	4e-06	NA	Hypermethylated in FP vs FN
cg02071553	0.668	0.417	0.250	4e-06	MIR216B	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15291243	0.731	0.344	0.387	4e-06	NA	Hypermethylated in FP vs FN
cg03106207	0.696	0.436	0.260	4e-06	NA	Hypermethylated in FP vs FN
cg01400685	0.707	0.413	0.294	4e-06	NA	Hypermethylated in FP vs FN
cg08461760	0.568	0.279	0.289	4e-06	NA	Hypermethylated in FP vs FN
cg04007302	0.603	0.305	0.298	4e-06	NA	Hypermethylated in FP vs FN
cg27237671	0.509	0.255	0.253	4e-06	NA	Hypermethylated in FP vs FN
cg06494775	0.730	0.471	0.259	4e-06	NA	Hypermethylated in FP vs FN
cg05583848	0.513	0.225	0.288	4e-06	DEF6	Hypermethylated in FP vs FN
cg12382846	0.727	0.451	0.276	4e-06	NA	Hypermethylated in FP vs FN
cg09423312	0.749	0.413	0.336	4e-06	NA	Hypermethylated in FP vs FN
cg17631451	0.617	0.274	0.342	4e-06	TREX1	Hypermethylated in FP vs FN
cg23336695	0.708	0.380	0.328	4e-06	NA	Hypermethylated in FP vs FN
cg14258877	0.776	0.494	0.281	4e-06	NA	Hypermethylated in FP vs FN
cg24984506	0.828	0.516	0.313	4e-06	NA	Hypermethylated in FP vs FN
cg08251025	0.667	0.358	0.310	5e-06	NA	Hypermethylated in FP vs FN
cg21999726	0.803	0.526	0.277	5e-06	NA	Hypermethylated in FP vs FN
cg18247090	0.800	0.505	0.295	5e-06	NA	Hypermethylated in FP vs FN
cg01449818	0.401	0.149	0.253	5e-06	ABLIM1	Hypermethylated in FP vs FN
cg16604516	0.577	0.274	0.303	5e-06	FBLN2	Hypermethylated in FP vs FN
cg19313660	0.752	0.461	0.292	5e-06	NA	Hypermethylated in FP vs FN
cg00247334	0.812	0.542	0.270	5e-06	OXTR	Hypermethylated in FP vs FN
cg05341384	0.546	0.223	0.323	5e-06	NA	Hypermethylated in FP vs FN
cg15909319	0.343	0.079	0.264	5e-06	NA	Hypermethylated in FP vs FN
cg01732465	0.507	0.223	0.283	5e-06	NA	Hypermethylated in FP vs FN
cg10005273	0.598	0.347	0.251	5e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17061156	0.650	0.314	0.337	5e-06	NA	Hypermethylated in FP vs FN
cg02509000	0.813	0.522	0.291	5e-06	NA	Hypermethylated in FP vs FN
cg11479000	0.746	0.489	0.257	5e-06	NA	Hypermethylated in FP vs FN
cg15735954	0.898	0.602	0.296	5e-06	NA	Hypermethylated in FP vs FN
cg21380380	0.679	0.359	0.320	5e-06	NA	Hypermethylated in FP vs FN
cg01759909	0.854	0.577	0.277	5e-06	NA	Hypermethylated in FP vs FN
cg01480180	0.841	0.533	0.308	5e-06	FZD1	Hypermethylated in FP vs FN
cg05833946	0.544	0.283	0.260	5e-06	NA	Hypermethylated in FP vs FN
cg14036069	0.682	0.391	0.291	5e-06	NA	Hypermethylated in FP vs FN
cg02695969	0.519	0.259	0.259	5e-06	NA	Hypermethylated in FP vs FN
cg04914574	0.671	0.384	0.287	5e-06	NA	Hypermethylated in FP vs FN
cg08452338	0.589	0.333	0.256	5e-06	NA	Hypermethylated in FP vs FN
cg18571590	0.690	0.298	0.392	5e-06	NA	Hypermethylated in FP vs FN
cg08436419	0.589	0.290	0.299	5e-06	DGKD	Hypermethylated in FP vs FN
cg00748492	0.756	0.506	0.250	5e-06	NA	Hypermethylated in FP vs FN
cg06492372	0.560	0.258	0.302	5e-06	NA	Hypermethylated in FP vs FN
cg11947548	0.677	0.418	0.258	5e-06	NA	Hypermethylated in FP vs FN
cg01758799	0.846	0.510	0.335	5e-06	NA	Hypermethylated in FP vs FN
cg06653203	0.628	0.294	0.334	5e-06	NA	Hypermethylated in FP vs FN
cg21515406	0.759	0.502	0.256	5e-06	NA	Hypermethylated in FP vs FN
cg06574769	0.714	0.416	0.298	5e-06	NA	Hypermethylated in FP vs FN
cg08906309	0.674	0.334	0.340	5e-06	NA	Hypermethylated in FP vs FN
cg00080125	0.701	0.442	0.258	5e-06	C17orf82	Hypermethylated in FP vs FN
cg02920604	0.710	0.421	0.289	5e-06	NA	Hypermethylated in FP vs FN
cg11303301	0.609	0.352	0.257	5e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23371754	0.839	0.586	0.253	5e-06	NA	Hypermethylated in FP vs FN
cg11445155	0.643	0.314	0.329	5e-06	NA	Hypermethylated in FP vs FN
cg19080053	0.661	0.405	0.257	5e-06	NA	Hypermethylated in FP vs FN
cg03595018	0.863	0.546	0.317	5e-06	NA	Hypermethylated in FP vs FN
cg04106395	0.896	0.584	0.312	5e-06	NA	Hypermethylated in FP vs FN
cg17884766	0.772	0.521	0.251	5e-06	NA	Hypermethylated in FP vs FN
cg26668490	0.697	0.313	0.384	5e-06	NA	Hypermethylated in FP vs FN
cg01418153	0.601	0.274	0.327	5e-06	NA	Hypermethylated in FP vs FN
cg09813986	0.876	0.610	0.266	5e-06	ZFR	Hypermethylated in FP vs FN
cg22507023	0.488	0.178	0.311	5e-06	NA	Hypermethylated in FP vs FN
cg02938414	0.569	0.261	0.308	5e-06	NA	Hypermethylated in FP vs FN
cg26781303	0.667	0.413	0.254	5e-06	NA	Hypermethylated in FP vs FN
cg03989758	0.800	0.497	0.303	5e-06	NA	Hypermethylated in FP vs FN
cg24851600	0.629	0.297	0.331	5e-06	NA	Hypermethylated in FP vs FN
cg01893695	0.602	0.283	0.318	5e-06	NA	Hypermethylated in FP vs FN
cg07585069	0.765	0.457	0.308	5e-06	PROCA1	Hypermethylated in FP vs FN
cg00958560	0.739	0.471	0.267	5e-06	NA	Hypermethylated in FP vs FN
cg16385029	0.712	0.453	0.259	5e-06	NA	Hypermethylated in FP vs FN
cg13572309	0.529	0.143	0.386	5e-06	NA	Hypermethylated in FP vs FN
cg17648080	0.782	0.446	0.336	5e-06	NA	Hypermethylated in FP vs FN
cg08519134	0.729	0.413	0.315	5e-06	NA	Hypermethylated in FP vs FN
cg27617086	0.636	0.349	0.286	5e-06	NA	Hypermethylated in FP vs FN
cg10075976	0.566	0.308	0.258	5e-06	NA	Hypermethylated in FP vs FN
cg05068533	0.423	0.155	0.268	5e-06	CCND1	Hypermethylated in FP vs FN
cg11324650	0.742	0.410	0.333	6e-06	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08940570	0.793	0.502	0.292	6e-06	DOK1	Hypermethylated in FP vs FN
cg26071135	0.624	0.282	0.341	6e-06	TSPAN4_POLR2L	Hypermethylated in FP vs FN
cg17519156	0.661	0.376	0.284	6e-06	NA	Hypermethylated in FP vs FN
cg26670674	0.697	0.399	0.299	6e-06	NA	Hypermethylated in FP vs FN
cg23206032	0.763	0.426	0.337	6e-06	NA	Hypermethylated in FP vs FN
cg24503003	0.626	0.359	0.268	6e-06	NA	Hypermethylated in FP vs FN
cg07175507	0.321	0.053	0.268	6e-06	NA	Hypermethylated in FP vs FN
cg07118299	0.745	0.458	0.286	6e-06	LOC732275	Hypermethylated in FP vs FN
cg26558992	0.790	0.509	0.281	6e-06	NA	Hypermethylated in FP vs FN
cg08087655	0.817	0.468	0.348	6e-06	NA	Hypermethylated in FP vs FN
cg00134602	0.791	0.463	0.328	6e-06	NA	Hypermethylated in FP vs FN
cg03449660	0.583	0.228	0.355	6e-06	NA	Hypermethylated in FP vs FN
cg20972167	0.867	0.601	0.267	6e-06	NA	Hypermethylated in FP vs FN
cg12804791	0.702	0.286	0.416	6e-06	NA	Hypermethylated in FP vs FN
cg04062717	0.609	0.357	0.252	6e-06	NA	Hypermethylated in FP vs FN
cg00388391	0.510	0.252	0.259	6e-06	NA	Hypermethylated in FP vs FN
cg02589501	0.679	0.341	0.338	6e-06	USP46	Hypermethylated in FP vs FN
cg23196346	0.703	0.433	0.270	6e-06	NA	Hypermethylated in FP vs FN
cg17683336	0.546	0.252	0.294	6e-06	KANK2	Hypermethylated in FP vs FN
cg14969261	0.859	0.572	0.287	6e-06	NA	Hypermethylated in FP vs FN
cg20272648	0.657	0.359	0.297	6e-06	NA	Hypermethylated in FP vs FN
cg27643022	0.694	0.418	0.276	6e-06	CCDC89	Hypermethylated in FP vs FN
cg17339910	0.638	0.250	0.388	6e-06	NA	Hypermethylated in FP vs FN
cg03180404	0.897	0.640	0.257	6e-06	NA	Hypermethylated in FP vs FN
cg07693262	0.657	0.399	0.258	6e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20222562	0.781	0.469	0.312	6e-06	NA	Hypermethylated in FP vs FN
cg25325257	0.699	0.407	0.292	6e-06	NA	Hypermethylated in FP vs FN
cg14530275	0.665	0.348	0.317	6e-06	NA	Hypermethylated in FP vs FN
cg10102242	0.563	0.185	0.378	6e-06	NA	Hypermethylated in FP vs FN
cg13077562	0.800	0.504	0.295	6e-06	PNOC	Hypermethylated in FP vs FN
cg10819050	0.723	0.470	0.253	6e-06	NA	Hypermethylated in FP vs FN
cg04587084	0.747	0.415	0.331	6e-06	NA	Hypermethylated in FP vs FN
cg25422351	0.358	0.100	0.259	6e-06	USP2	Hypermethylated in FP vs FN
cg01377200	0.891	0.634	0.257	6e-06	NA	Hypermethylated in FP vs FN
cg14129855	0.699	0.378	0.321	6e-06	NA	Hypermethylated in FP vs FN
cg14474150	0.723	0.381	0.343	6e-06	NA	Hypermethylated in FP vs FN
cg21493516	0.790	0.402	0.389	6e-06	NA	Hypermethylated in FP vs FN
cg25922969	0.609	0.325	0.284	6e-06	NA	Hypermethylated in FP vs FN
cg06826341	0.770	0.511	0.259	6e-06	NA	Hypermethylated in FP vs FN
cg18056973	0.381	0.088	0.292	6e-06	RBMS3	Hypermethylated in FP vs FN
cg21822187	0.397	0.140	0.256	6e-06	NA	Hypermethylated in FP vs FN
cg08751438	0.777	0.514	0.264	6e-06	NA	Hypermethylated in FP vs FN
cg19502920	0.723	0.326	0.397	6e-06	NA	Hypermethylated in FP vs FN
cg04414849	0.846	0.587	0.259	6e-06	NA	Hypermethylated in FP vs FN
cg12645616	0.585	0.333	0.252	6e-06	NA	Hypermethylated in FP vs FN
cg14772884	0.643	0.326	0.318	6e-06	NA	Hypermethylated in FP vs FN
cg03049691	0.747	0.356	0.391	6e-06	PROCA1	Hypermethylated in FP vs FN
cg21805138	0.792	0.509	0.282	6e-06	NA	Hypermethylated in FP vs FN
cg10752421	0.918	0.568	0.349	6e-06	NA	Hypermethylated in FP vs FN
cg07980777	0.764	0.427	0.337	6e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04658679	0.740	0.467	0.273	6e-06	NA	Hypermethylated in FP vs FN
cg18703951	0.830	0.563	0.267	6e-06	CNR1	Hypermethylated in FP vs FN
cg02610600	0.587	0.246	0.341	6e-06	NA	Hypermethylated in FP vs FN
cg03276468	0.840	0.548	0.292	6e-06	NA	Hypermethylated in FP vs FN
cg19122260	0.849	0.533	0.316	6e-06	NA	Hypermethylated in FP vs FN
cg13582775	0.637	0.345	0.293	6e-06	NA	Hypermethylated in FP vs FN
cg23638252	0.613	0.314	0.298	6e-06	NA	Hypermethylated in FP vs FN
cg24003866	0.843	0.585	0.259	6e-06	NA	Hypermethylated in FP vs FN
cg11217865	0.607	0.324	0.284	6e-06	NA	Hypermethylated in FP vs FN
cg22158992	0.632	0.331	0.301	6e-06	NA	Hypermethylated in FP vs FN
cg22802812	0.688	0.392	0.296	6e-06	DLG2	Hypermethylated in FP vs FN
cg09638944	0.541	0.264	0.277	6e-06	NA	Hypermethylated in FP vs FN
cg24136700	0.619	0.310	0.309	6e-06	NA	Hypermethylated in FP vs FN
cg04021526	0.572	0.301	0.271	6e-06	NA	Hypermethylated in FP vs FN
cg07522913	0.798	0.484	0.315	6e-06	NA	Hypermethylated in FP vs FN
cg14073571	0.858	0.579	0.278	7e-06	NA	Hypermethylated in FP vs FN
cg14003931	0.726	0.464	0.261	7e-06	NA	Hypermethylated in FP vs FN
cg25595641	0.897	0.605	0.292	7e-06	NA	Hypermethylated in FP vs FN
cg11857626	0.835	0.565	0.270	7e-06	IQCF5	Hypermethylated in FP vs FN
cg12170191	0.607	0.352	0.255	7e-06	NA	Hypermethylated in FP vs FN
cg08218971	0.584	0.286	0.297	7e-06	C16orf53	Hypermethylated in FP vs FN
cg26639085	0.868	0.569	0.299	7e-06	NA	Hypermethylated in FP vs FN
cg01194765	0.744	0.436	0.308	7e-06	NA	Hypermethylated in FP vs FN
cg02311540	0.430	0.174	0.255	7e-06	NA	Hypermethylated in FP vs FN
cg01706334	0.630	0.271	0.359	7e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24579589	0.835	0.564	0.271	7e-06	NA	Hypermethylated in FP vs FN
cg04750099	0.723	0.450	0.273	7e-06	OR9Q2	Hypermethylated in FP vs FN
cg10000318	0.633	0.228	0.405	7e-06	NA	Hypermethylated in FP vs FN
cg10375890	0.398	0.118	0.280	7e-06	NA	Hypermethylated in FP vs FN
cg13524919	0.824	0.497	0.327	7e-06	NA	Hypermethylated in FP vs FN
cg13104938	0.709	0.396	0.314	7e-06	TSPAN4_POLR2L	Hypermethylated in FP vs FN
cg05408649	0.850	0.470	0.381	7e-06	NA	Hypermethylated in FP vs FN
cg11673291	0.508	0.168	0.339	7e-06	NA	Hypermethylated in FP vs FN
cg08922179	0.785	0.513	0.272	7e-06	NA	Hypermethylated in FP vs FN
cg08428545	0.659	0.344	0.315	7e-06	NA	Hypermethylated in FP vs FN
cg03533472	0.615	0.261	0.355	7e-06	GPT2	Hypermethylated in FP vs FN
cg20050108	0.682	0.427	0.256	7e-06	FOXP2	Hypermethylated in FP vs FN
cg02114903	0.620	0.329	0.291	7e-06	NA	Hypermethylated in FP vs FN
cg12702354	0.750	0.438	0.312	7e-06	NA	Hypermethylated in FP vs FN
cg12046758	0.607	0.191	0.416	7e-06	NA	Hypermethylated in FP vs FN
cg21037008	0.624	0.353	0.271	7e-06	PRRT1_PPT2	Hypermethylated in FP vs FN
cg14826909	0.680	0.366	0.314	7e-06	NA	Hypermethylated in FP vs FN
cg17039236	0.603	0.177	0.426	7e-06	NA	Hypermethylated in FP vs FN
cg16789680	0.700	0.352	0.348	7e-06	NA	Hypermethylated in FP vs FN
cg08729810	0.471	0.214	0.258	7e-06	OLIG2	Hypermethylated in FP vs FN
cg17848496	0.788	0.446	0.342	7e-06	IRS1	Hypermethylated in FP vs FN
cg25102449	0.585	0.305	0.280	7e-06	NA	Hypermethylated in FP vs FN
cg10488012	0.863	0.583	0.280	7e-06	NA	Hypermethylated in FP vs FN
cg06614257	0.847	0.526	0.321	7e-06	NA	Hypermethylated in FP vs FN
cg23070380	0.787	0.424	0.363	7e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12193731	0.462	0.112	0.350	7e-06	ACVRL1	Hypermethylated in FP vs FN
cg02840179	0.801	0.471	0.331	7e-06	NA	Hypermethylated in FP vs FN
cg02443847	0.863	0.607	0.256	7e-06	NA	Hypermethylated in FP vs FN
cg02255090	0.866	0.575	0.291	7e-06	NA	Hypermethylated in FP vs FN
cg18061904	0.649	0.219	0.430	7e-06	ACVR1C	Hypermethylated in FP vs FN
cg14977066	0.509	0.162	0.348	7e-06	NA	Hypermethylated in FP vs FN
cg26672952	0.553	0.264	0.289	7e-06	NA	Hypermethylated in FP vs FN
cg05673079	0.836	0.558	0.278	7e-06	NA	Hypermethylated in FP vs FN
cg05223396	0.663	0.376	0.287	7e-06	NA	Hypermethylated in FP vs FN
cg15752343	0.552	0.215	0.337	7e-06	NA	Hypermethylated in FP vs FN
cg15465823	0.717	0.439	0.278	7e-06	NA	Hypermethylated in FP vs FN
cg23206520	0.672	0.394	0.278	7e-06	NA	Hypermethylated in FP vs FN
cg14501061	0.490	0.179	0.311	7e-06	ALDOC	Hypermethylated in FP vs FN
cg10855395	0.641	0.245	0.396	7e-06	NA	Hypermethylated in FP vs FN
cg02609692	0.698	0.356	0.342	7e-06	NA	Hypermethylated in FP vs FN
cg26400885	0.796	0.405	0.391	7e-06	ZIC1	Hypermethylated in FP vs FN
cg21027526	0.594	0.258	0.336	7e-06	NA	Hypermethylated in FP vs FN
cg11613003	0.799	0.471	0.328	7e-06	FZD7	Hypermethylated in FP vs FN
cg22046662	0.583	0.257	0.326	7e-06	NA	Hypermethylated in FP vs FN
cg14020762	0.497	0.166	0.331	7e-06	NA	Hypermethylated in FP vs FN
cg07844518	0.758	0.506	0.252	7e-06	NA	Hypermethylated in FP vs FN
cg09732711	0.792	0.538	0.254	7e-06	NA	Hypermethylated in FP vs FN
cg20210482	0.586	0.234	0.352	8e-06	NA	Hypermethylated in FP vs FN
cg01539284	0.829	0.540	0.289	8e-06	NA	Hypermethylated in FP vs FN
cg09109383	0.702	0.385	0.317	8e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04437845	0.825	0.542	0.283	8e-06	NA	Hypermethylated in FP vs FN
cg10499651	0.805	0.522	0.282	8e-06	NA	Hypermethylated in FP vs FN
cg04763450	0.581	0.244	0.336	8e-06	NA	Hypermethylated in FP vs FN
cg24102622	0.763	0.363	0.399	8e-06	NA	Hypermethylated in FP vs FN
cg03800922	0.501	0.216	0.285	8e-06	NA	Hypermethylated in FP vs FN
cg11984971	0.713	0.398	0.314	8e-06	NA	Hypermethylated in FP vs FN
cg00270789	0.423	0.159	0.264	8e-06	GPT2	Hypermethylated in FP vs FN
cg15496763	0.754	0.439	0.316	8e-06	NA	Hypermethylated in FP vs FN
cg24831725	0.680	0.376	0.304	8e-06	NA	Hypermethylated in FP vs FN
cg12589798	0.770	0.484	0.285	8e-06	NA	Hypermethylated in FP vs FN
cg06997184	0.593	0.311	0.282	8e-06	NA	Hypermethylated in FP vs FN
cg02539682	0.522	0.257	0.264	8e-06	NA	Hypermethylated in FP vs FN
cg12098511	0.774	0.488	0.286	8e-06	NA	Hypermethylated in FP vs FN
cg06070132	0.819	0.514	0.305	8e-06	NA	Hypermethylated in FP vs FN
cg10949576	0.729	0.467	0.262	8e-06	C11orf66	Hypermethylated in FP vs FN
cg09722236	0.850	0.563	0.288	8e-06	NA	Hypermethylated in FP vs FN
cg26201952	0.748	0.449	0.300	8e-06	HOXC4	Hypermethylated in FP vs FN
cg10995640	0.420	0.138	0.282	8e-06	SULF1	Hypermethylated in FP vs FN
cg13293535	0.793	0.437	0.356	8e-06	NA	Hypermethylated in FP vs FN
cg10101600	0.490	0.227	0.263	8e-06	NA	Hypermethylated in FP vs FN
cg01546047	0.681	0.422	0.260	8e-06	SPON2	Hypermethylated in FP vs FN
cg26728422	0.609	0.281	0.328	8e-06	NA	Hypermethylated in FP vs FN
cg03191919	0.624	0.343	0.280	8e-06	NA	Hypermethylated in FP vs FN
cg04021592	0.756	0.471	0.284	8e-06	NA	Hypermethylated in FP vs FN
cg08563570	0.753	0.484	0.269	8e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24993194	0.531	0.216	0.314	8e-06	NA	Hypermethylated in FP vs FN
cg02201239	0.581	0.277	0.304	8e-06	NA	Hypermethylated in FP vs FN
cg11171811	0.756	0.505	0.252	8e-06	LTBP3	Hypermethylated in FP vs FN
cg21977234	0.819	0.477	0.343	8e-06	NA	Hypermethylated in FP vs FN
cg25834768	0.776	0.413	0.363	8e-06	NA	Hypermethylated in FP vs FN
cg14422093	0.521	0.218	0.303	8e-06	NA	Hypermethylated in FP vs FN
cg12710899	0.756	0.401	0.355	8e-06	NA	Hypermethylated in FP vs FN
cg14640174	0.836	0.555	0.281	8e-06	NA	Hypermethylated in FP vs FN
cg06760518	0.659	0.230	0.430	8e-06	NA	Hypermethylated in FP vs FN
cg19082560	0.700	0.318	0.383	8e-06	NA	Hypermethylated in FP vs FN
cg11382963	0.368	0.100	0.268	8e-06	NA	Hypermethylated in FP vs FN
cg11962640	0.690	0.319	0.370	8e-06	NA	Hypermethylated in FP vs FN
cg25505106	0.498	0.234	0.264	8e-06	NA	Hypermethylated in FP vs FN
cg08777813	0.651	0.398	0.252	8e-06	NA	Hypermethylated in FP vs FN
cg03085712	0.621	0.262	0.359	8e-06	ATP2C2	Hypermethylated in FP vs FN
cg01290153	0.695	0.442	0.253	8e-06	ZNF628	Hypermethylated in FP vs FN
cg16298927	0.755	0.430	0.325	8e-06	NA	Hypermethylated in FP vs FN
cg23624452	0.766	0.447	0.319	8e-06	NA	Hypermethylated in FP vs FN
cg22191606	0.572	0.237	0.335	8e-06	NA	Hypermethylated in FP vs FN
cg17128892	0.775	0.448	0.326	8e-06	NA	Hypermethylated in FP vs FN
cg22218316	0.698	0.447	0.250	8e-06	NA	Hypermethylated in FP vs FN
cg02225085	0.648	0.331	0.317	8e-06	NA	Hypermethylated in FP vs FN
cg10473266	0.790	0.495	0.295	9e-06	NA	Hypermethylated in FP vs FN
cg14996220	0.437	0.101	0.336	9e-06	ALX1	Hypermethylated in FP vs FN
cg18182216	0.730	0.475	0.255	9e-06	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01137760	0.323	0.068	0.255	9e-06	NA	Hypermethylated in FP vs FN
cg18516158	0.451	0.158	0.293	9e-06	NA	Hypermethylated in FP vs FN
cg09252331	0.703	0.444	0.258	9e-06	NA	Hypermethylated in FP vs FN
cg17691988	0.751	0.472	0.279	9e-06	NA	Hypermethylated in FP vs FN
cg04365452	0.492	0.186	0.307	9e-06	NA	Hypermethylated in FP vs FN
cg08896420	0.818	0.562	0.256	9e-06	NA	Hypermethylated in FP vs FN
cg01763890	0.672	0.300	0.371	9e-06	NA	Hypermethylated in FP vs FN
cg04007792	0.865	0.614	0.251	9e-06	NA	Hypermethylated in FP vs FN
cg10707081	0.530	0.268	0.261	9e-06	NA	Hypermethylated in FP vs FN
cg08530879	0.744	0.478	0.266	9e-06	NA	Hypermethylated in FP vs FN
cg00677574	0.637	0.327	0.310	9e-06	NA	Hypermethylated in FP vs FN
cg25238537	0.562	0.290	0.273	9e-06	NA	Hypermethylated in FP vs FN
cg03902450	0.614	0.234	0.380	9e-06	NA	Hypermethylated in FP vs FN
cg24232444	0.725	0.394	0.331	9e-06	NA	Hypermethylated in FP vs FN
cg26225847	0.817	0.555	0.263	9e-06	NA	Hypermethylated in FP vs FN
cg21172011	0.647	0.318	0.329	9e-06	NA	Hypermethylated in FP vs FN
cg16686396	0.733	0.454	0.279	9e-06	NA	Hypermethylated in FP vs FN
cg14176752	0.486	0.149	0.337	9e-06	NA	Hypermethylated in FP vs FN
cg17942618	0.636	0.349	0.287	9e-06	NA	Hypermethylated in FP vs FN
cg10444491	0.741	0.460	0.281	9e-06	NA	Hypermethylated in FP vs FN
cg01787574	0.622	0.249	0.373	9e-06	NA	Hypermethylated in FP vs FN
cg18475969	0.472	0.192	0.280	9e-06	NA	Hypermethylated in FP vs FN
cg15548295	0.856	0.512	0.344	9e-06	NA	Hypermethylated in FP vs FN
cg21496187	0.740	0.470	0.270	9e-06	NA	Hypermethylated in FP vs FN
cg15101980	0.491	0.217	0.274	9e-06	ARSI	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07011029	0.630	0.340	0.290	9e-06	NA	Hypermethylated in FP vs FN
cg20634514	0.717	0.407	0.310	9e-06	NA	Hypermethylated in FP vs FN
cg27518375	0.814	0.533	0.281	9e-06	NA	Hypermethylated in FP vs FN
cg08877357	0.706	0.380	0.326	9e-06	NA	Hypermethylated in FP vs FN
cg18864124	0.798	0.519	0.279	9e-06	NA	Hypermethylated in FP vs FN
cg10895922	0.428	0.141	0.287	9e-06	NKX2-5	Hypermethylated in FP vs FN
cg07673230	0.826	0.530	0.297	9e-06	NA	Hypermethylated in FP vs FN
cg09746261	0.732	0.446	0.287	1e-05	NA	Hypermethylated in FP vs FN
cg26557925	0.677	0.392	0.285	1e-05	NA	Hypermethylated in FP vs FN
cg17043222	0.838	0.558	0.280	1e-05	HLA-DQB2	Hypermethylated in FP vs FN
cg12071544	0.695	0.280	0.414	1e-05	NA	Hypermethylated in FP vs FN
cg00402668	0.763	0.460	0.302	1e-05	NA	Hypermethylated in FP vs FN
cg07041470	0.521	0.235	0.286	1e-05	GPRIN2	Hypermethylated in FP vs FN
cg11309217	0.811	0.508	0.304	1e-05	NA	Hypermethylated in FP vs FN
cg25010691	0.561	0.300	0.261	1e-05	NA	Hypermethylated in FP vs FN
cg16697433	0.885	0.626	0.260	1e-05	NA	Hypermethylated in FP vs FN
cg17636986	0.677	0.365	0.312	1e-05	NA	Hypermethylated in FP vs FN
cg07543830	0.791	0.396	0.395	1e-05	NA	Hypermethylated in FP vs FN
cg23126203	0.651	0.388	0.262	1e-05	NA	Hypermethylated in FP vs FN
cg16197186	0.860	0.574	0.286	1e-05	NA	Hypermethylated in FP vs FN
cg05378452	0.719	0.413	0.307	1e-05	NA	Hypermethylated in FP vs FN
cg15688628	0.618	0.356	0.262	1e-05	NA	Hypermethylated in FP vs FN
cg10357060	0.599	0.243	0.356	1e-05	NA	Hypermethylated in FP vs FN
cg10706389	0.505	0.177	0.328	1e-05	NA	Hypermethylated in FP vs FN
cg09029193	0.679	0.399	0.281	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27327647	0.654	0.323	0.331	1e-05	NA	Hypermethylated in FP vs FN
cg01691827	0.797	0.526	0.271	1e-05	NA	Hypermethylated in FP vs FN
cg21588305	0.824	0.525	0.299	1e-05	NNAT	Hypermethylated in FP vs FN
cg20784259	0.729	0.414	0.316	1e-05	NA	Hypermethylated in FP vs FN
cg09941406	0.605	0.245	0.359	1e-05	NA	Hypermethylated in FP vs FN
cg14481469	0.746	0.474	0.271	1e-05	NA	Hypermethylated in FP vs FN
cg18688704	0.680	0.373	0.306	1e-05	NA	Hypermethylated in FP vs FN
cg14546497	0.631	0.373	0.257	1e-05	NA	Hypermethylated in FP vs FN
cg03075709	0.664	0.329	0.334	1e-05	NA	Hypermethylated in FP vs FN
cg24011500	0.706	0.448	0.259	1e-05	NA	Hypermethylated in FP vs FN
cg26948603	0.414	0.104	0.311	1e-05	DRD1	Hypermethylated in FP vs FN
cg19759788	0.623	0.277	0.346	1e-05	FBLIM1	Hypermethylated in FP vs FN
cg10143811	0.708	0.324	0.384	1e-05	NA	Hypermethylated in FP vs FN
cg23725149	0.545	0.250	0.295	1e-05	NA	Hypermethylated in FP vs FN
cg05415871	0.874	0.560	0.314	1e-05	NA	Hypermethylated in FP vs FN
cg23272632	0.371	0.062	0.309	1e-05	NA	Hypermethylated in FP vs FN
cg03285577	0.699	0.348	0.351	1e-05	NA	Hypermethylated in FP vs FN
cg19070138	0.703	0.403	0.301	1e-05	NA	Hypermethylated in FP vs FN
cg06282596	0.702	0.368	0.334	1e-05	NA	Hypermethylated in FP vs FN
cg11123440	0.840	0.532	0.308	1e-05	NA	Hypermethylated in FP vs FN
cg04930596	0.560	0.303	0.257	1e-05	NA	Hypermethylated in FP vs FN
cg05232207	0.628	0.361	0.267	1e-05	NA	Hypermethylated in FP vs FN
cg00952789	0.687	0.419	0.268	1e-05	NA	Hypermethylated in FP vs FN
cg16461139	0.798	0.488	0.310	1e-05	NA	Hypermethylated in FP vs FN
cg01047028	0.889	0.628	0.261	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00070042	0.658	0.386	0.271	1e-05	NA	Hypermethylated in FP vs FN
cg14121185	0.804	0.543	0.261	1e-05	NA	Hypermethylated in FP vs FN
cg24504942	0.826	0.572	0.254	1e-05	NA	Hypermethylated in FP vs FN
cg02638458	0.721	0.419	0.302	1e-05	NA	Hypermethylated in FP vs FN
cg16617301	0.570	0.279	0.291	1e-05	PNMAL2	Hypermethylated in FP vs FN
cg25245338	0.785	0.485	0.300	1e-05	TIMP3	Hypermethylated in FP vs FN
cg14393034	0.789	0.458	0.331	1e-05	NA	Hypermethylated in FP vs FN
cg15991082	0.726	0.471	0.255	1e-05	NA	Hypermethylated in FP vs FN
cg21797718	0.736	0.453	0.283	1e-05	NA	Hypermethylated in FP vs FN
cg06913593	0.617	0.344	0.273	1e-05	NA	Hypermethylated in FP vs FN
cg01182863	0.750	0.416	0.334	1e-05	NA	Hypermethylated in FP vs FN
cg03478739	0.694	0.419	0.275	1e-05	NA	Hypermethylated in FP vs FN
cg25295740	0.763	0.491	0.271	1e-05	NA	Hypermethylated in FP vs FN
cg12623852	0.769	0.365	0.404	1e-05	NA	Hypermethylated in FP vs FN
cg26135831	0.694	0.411	0.283	1e-05	NA	Hypermethylated in FP vs FN
cg13829680	0.750	0.447	0.302	1e-05	NA	Hypermethylated in FP vs FN
cg09241174	0.833	0.563	0.270	1e-05	NA	Hypermethylated in FP vs FN
cg08042258	0.703	0.393	0.310	1e-05	NA	Hypermethylated in FP vs FN
cg20463927	0.551	0.249	0.302	1e-05	NA	Hypermethylated in FP vs FN
cg17203352	0.640	0.364	0.276	1e-05	WFIKKN2	Hypermethylated in FP vs FN
cg22353096	0.536	0.268	0.267	1e-05	NA	Hypermethylated in FP vs FN
cg09879107	0.857	0.599	0.258	1e-05	CNR1	Hypermethylated in FP vs FN
cg03587907	0.770	0.432	0.338	1e-05	NA	Hypermethylated in FP vs FN
cg19492423	0.636	0.282	0.354	1e-05	NA	Hypermethylated in FP vs FN
cg14016177	0.568	0.300	0.267	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06759993	0.543	0.241	0.302	1e-05	NA	Hypermethylated in FP vs FN
cg20917920	0.829	0.548	0.282	1e-05	NA	Hypermethylated in FP vs FN
cg01406536	0.450	0.111	0.339	1e-05	NA	Hypermethylated in FP vs FN
cg07135237	0.599	0.278	0.321	1e-05	NA	Hypermethylated in FP vs FN
cg26605891	0.616	0.366	0.250	1e-05	NA	Hypermethylated in FP vs FN
cg22200649	0.743	0.431	0.312	1e-05	NA	Hypermethylated in FP vs FN
cg15615586	0.824	0.532	0.292	1e-05	NA	Hypermethylated in FP vs FN
cg18116753	0.851	0.593	0.257	1e-05	NA	Hypermethylated in FP vs FN
cg00769775	0.358	0.105	0.253	1e-05	NA	Hypermethylated in FP vs FN
cg10337322	0.570	0.195	0.376	1e-05	NA	Hypermethylated in FP vs FN
cg26757472	0.810	0.504	0.305	1e-05	NA	Hypermethylated in FP vs FN
cg00923533	0.732	0.471	0.261	1e-05	NA	Hypermethylated in FP vs FN
cg08215318	0.777	0.438	0.340	1e-05	NA	Hypermethylated in FP vs FN
cg00186815	0.779	0.491	0.287	1e-05	NA	Hypermethylated in FP vs FN
cg07540326	0.833	0.512	0.321	1e-05	NA	Hypermethylated in FP vs FN
cg21404063	0.703	0.345	0.357	1e-05	NA	Hypermethylated in FP vs FN
cg08160224	0.623	0.342	0.281	1e-05	NA	Hypermethylated in FP vs FN
cg05279092	0.679	0.279	0.400	1e-05	NA	Hypermethylated in FP vs FN
cg02981183	0.768	0.462	0.306	1e-05	NA	Hypermethylated in FP vs FN
cg16616514	0.790	0.524	0.265	1e-05	NA	Hypermethylated in FP vs FN
cg22643751	0.401	0.133	0.268	1e-05	UNC84A	Hypermethylated in FP vs FN
cg24758426	0.611	0.250	0.361	1e-05	NA	Hypermethylated in FP vs FN
cg13178597	0.661	0.381	0.280	1e-05	NA	Hypermethylated in FP vs FN
cg03536664	0.763	0.475	0.288	1e-05	NA	Hypermethylated in FP vs FN
cg06808089	0.596	0.327	0.269	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06497848	0.795	0.438	0.357	1e-05	NA	Hypermethylated in FP vs FN
cg04942251	0.661	0.293	0.368	1e-05	NA	Hypermethylated in FP vs FN
cg21151017	0.736	0.437	0.299	1e-05	NA	Hypermethylated in FP vs FN
cg16085649	0.635	0.361	0.274	1e-05	NA	Hypermethylated in FP vs FN
cg09828761	0.768	0.478	0.290	1e-05	NA	Hypermethylated in FP vs FN
cg03094519	0.489	0.180	0.310	1e-05	NA	Hypermethylated in FP vs FN
cg19350197	0.772	0.485	0.288	1e-05	NA	Hypermethylated in FP vs FN
cg18022921	0.681	0.422	0.259	1e-05	VEGFA	Hypermethylated in FP vs FN
cg27316067	0.726	0.361	0.365	1e-05	NA	Hypermethylated in FP vs FN
cg19739126	0.609	0.327	0.282	1e-05	NA	Hypermethylated in FP vs FN
cg14328115	0.650	0.270	0.380	1e-05	NA	Hypermethylated in FP vs FN
cg01655667	0.548	0.226	0.322	1e-05	NA	Hypermethylated in FP vs FN
cg08117745	0.855	0.592	0.263	1e-05	NA	Hypermethylated in FP vs FN
cg06539938	0.686	0.402	0.284	1e-05	NA	Hypermethylated in FP vs FN
cg03307103	0.786	0.464	0.322	1e-05	NA	Hypermethylated in FP vs FN
cg12797746	0.791	0.450	0.341	1e-05	NA	Hypermethylated in FP vs FN
cg05803853	0.799	0.515	0.284	1e-05	NA	Hypermethylated in FP vs FN
cg05266226	0.786	0.522	0.264	1e-05	NA	Hypermethylated in FP vs FN
cg20821442	0.639	0.361	0.278	1e-05	NA	Hypermethylated in FP vs FN
cg23323891	0.628	0.358	0.269	1e-05	NA	Hypermethylated in FP vs FN
cg05431528	0.666	0.369	0.297	1e-05	NA	Hypermethylated in FP vs FN
cg22967396	0.704	0.358	0.345	1e-05	NA	Hypermethylated in FP vs FN
cg04689048	0.494	0.195	0.299	1e-05	PNMAL2	Hypermethylated in FP vs FN
cg25188975	0.834	0.569	0.266	1e-05	NA	Hypermethylated in FP vs FN
cg22610388	0.760	0.501	0.259	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26541218	0.638	0.375	0.263	1e-05	NA	Hypermethylated in FP vs FN
cg12871967	0.753	0.479	0.274	1e-05	NA	Hypermethylated in FP vs FN
cg25955692	0.872	0.539	0.333	1e-05	NA	Hypermethylated in FP vs FN
cg02723856	0.580	0.244	0.337	1e-05	NA	Hypermethylated in FP vs FN
cg22357164	0.442	0.189	0.254	1e-05	NA	Hypermethylated in FP vs FN
cg21403761	0.736	0.482	0.253	1e-05	NA	Hypermethylated in FP vs FN
cg24936179	0.891	0.623	0.268	1e-05	NA	Hypermethylated in FP vs FN
cg16181396	0.765	0.358	0.407	1e-05	ZIC1	Hypermethylated in FP vs FN
cg05665202	0.607	0.290	0.317	1e-05	NA	Hypermethylated in FP vs FN
cg13336642	0.393	0.123	0.270	1e-05	NA	Hypermethylated in FP vs FN
cg21353144	0.714	0.375	0.340	1e-05	NA	Hypermethylated in FP vs FN
cg27097846	0.624	0.371	0.253	1e-05	TENC1	Hypermethylated in FP vs FN
cg17298181	0.525	0.173	0.352	1e-05	NA	Hypermethylated in FP vs FN
cg16277725	0.511	0.233	0.278	1e-05	NA	Hypermethylated in FP vs FN
cg15793573	0.944	0.676	0.269	1e-05	NA	Hypermethylated in FP vs FN
cg14078714	0.641	0.344	0.298	1e-05	NA	Hypermethylated in FP vs FN
cg22551145	0.671	0.386	0.285	1e-05	NA	Hypermethylated in FP vs FN
cg03206569	0.842	0.566	0.276	1e-05	NA	Hypermethylated in FP vs FN
cg12942328	0.451	0.119	0.332	1e-05	BCL6	Hypermethylated in FP vs FN
cg14496909	0.749	0.356	0.393	1e-05	NA	Hypermethylated in FP vs FN
cg04948649	0.831	0.513	0.318	1e-05	NA	Hypermethylated in FP vs FN
cg07410188	0.573	0.239	0.333	1e-05	NA	Hypermethylated in FP vs FN
cg17977470	0.828	0.507	0.321	1e-05	NA	Hypermethylated in FP vs FN
cg00475509	0.813	0.429	0.384	1e-05	ZIC1	Hypermethylated in FP vs FN
cg14561362	0.677	0.399	0.279	1e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00831276	0.763	0.511	0.252	1e-05	NA	Hypermethylated in FP vs FN
cg08326370	0.584	0.227	0.357	1e-05	NA	Hypermethylated in FP vs FN
cg07336123	0.611	0.344	0.267	1e-05	NA	Hypermethylated in FP vs FN
cg12613129	0.584	0.330	0.254	1e-05	NA	Hypermethylated in FP vs FN
cg00118808	0.582	0.322	0.260	1e-05	NA	Hypermethylated in FP vs FN
cg16338011	0.850	0.582	0.268	1e-05	NA	Hypermethylated in FP vs FN
cg01921323	0.690	0.388	0.303	1e-05	NA	Hypermethylated in FP vs FN
cg09648467	0.570	0.255	0.315	1e-05	NA	Hypermethylated in FP vs FN
cg12399536	0.475	0.209	0.266	1e-05	NA	Hypermethylated in FP vs FN
cg08227583	0.640	0.365	0.275	1e-05	NA	Hypermethylated in FP vs FN
cg03365751	0.715	0.398	0.317	1e-05	NFAM1	Hypermethylated in FP vs FN
cg21251385	0.789	0.409	0.381	1e-05	NA	Hypermethylated in FP vs FN
cg10308949	0.738	0.487	0.251	1e-05	C22orf40	Hypermethylated in FP vs FN
cg20502977	0.733	0.471	0.262	1e-05	NA	Hypermethylated in FP vs FN
cg26964636	0.758	0.457	0.301	1e-05	NA	Hypermethylated in FP vs FN
cg05689267	0.728	0.466	0.263	1e-05	NA	Hypermethylated in FP vs FN
cg14867741	0.778	0.498	0.281	1e-05	NA	Hypermethylated in FP vs FN
cg03465499	0.467	0.206	0.261	1e-05	MRGPRF	Hypermethylated in FP vs FN
cg01147467	0.812	0.506	0.306	1e-05	NA	Hypermethylated in FP vs FN
cg13525877	0.814	0.518	0.296	2e-05	NA	Hypermethylated in FP vs FN
cg06411129	0.806	0.478	0.327	2e-05	NA	Hypermethylated in FP vs FN
cg23468878	0.496	0.233	0.263	2e-05	ZIC1	Hypermethylated in FP vs FN
cg13710297	0.624	0.367	0.257	2e-05	NA	Hypermethylated in FP vs FN
cg07451370	0.745	0.422	0.322	2e-05	NA	Hypermethylated in FP vs FN
cg10111816	0.737	0.472	0.265	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18451814	0.758	0.387	0.370	2e-05	OTX2	Hypermethylated in FP vs FN
cg09085932	0.646	0.391	0.255	2e-05	NA	Hypermethylated in FP vs FN
cg07997634	0.629	0.363	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg09377980	0.777	0.520	0.257	2e-05	NA	Hypermethylated in FP vs FN
cg26940676	0.735	0.397	0.337	2e-05	NA	Hypermethylated in FP vs FN
cg09806934	0.340	0.089	0.251	2e-05	NA	Hypermethylated in FP vs FN
cg15155441	0.799	0.516	0.283	2e-05	APLNR	Hypermethylated in FP vs FN
cg19393677	0.709	0.445	0.264	2e-05	NA	Hypermethylated in FP vs FN
cg24586554	0.693	0.442	0.250	2e-05	NA	Hypermethylated in FP vs FN
cg04135110	0.542	0.276	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg15849703	0.625	0.349	0.275	2e-05	NA	Hypermethylated in FP vs FN
cg14557202	0.726	0.380	0.347	2e-05	NA	Hypermethylated in FP vs FN
cg11006960	0.822	0.558	0.264	2e-05	NA	Hypermethylated in FP vs FN
cg22231101	0.633	0.363	0.270	2e-05	NA	Hypermethylated in FP vs FN
cg24142603	0.729	0.321	0.407	2e-05	NA	Hypermethylated in FP vs FN
cg23259394	0.726	0.465	0.262	2e-05	NA	Hypermethylated in FP vs FN
cg25003275	0.436	0.178	0.258	2e-05	NA	Hypermethylated in FP vs FN
cg12968041	0.755	0.473	0.282	2e-05	NA	Hypermethylated in FP vs FN
cg20454073	0.737	0.343	0.394	2e-05	NA	Hypermethylated in FP vs FN
cg09246103	0.776	0.506	0.270	2e-05	NA	Hypermethylated in FP vs FN
cg16171838	0.684	0.282	0.403	2e-05	ACVR1C	Hypermethylated in FP vs FN
cg03127506	0.809	0.535	0.273	2e-05	NA	Hypermethylated in FP vs FN
cg09762897	0.547	0.261	0.286	2e-05	NA	Hypermethylated in FP vs FN
cg26575450	0.622	0.304	0.318	2e-05	NA	Hypermethylated in FP vs FN
cg14262439	0.404	0.069	0.335	2e-05	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01190109	0.760	0.450	0.310	2e-05	NA	Hypermethylated in FP vs FN
cg00351735	0.813	0.551	0.262	2e-05	NA	Hypermethylated in FP vs FN
cg14157107	0.754	0.474	0.280	2e-05	NA	Hypermethylated in FP vs FN
cg24597207	0.776	0.513	0.263	2e-05	NA	Hypermethylated in FP vs FN
cg17157798	0.789	0.528	0.261	2e-05	NA	Hypermethylated in FP vs FN
cg12679760	0.565	0.267	0.298	2e-05	NA	Hypermethylated in FP vs FN
cg16413842	0.778	0.513	0.265	2e-05	NA	Hypermethylated in FP vs FN
cg03822639	0.635	0.319	0.316	2e-05	PALLD	Hypermethylated in FP vs FN
cg21345949	0.755	0.489	0.267	2e-05	C10orf125	Hypermethylated in FP vs FN
cg03593189	0.628	0.288	0.340	2e-05	NA	Hypermethylated in FP vs FN
cg17684207	0.544	0.243	0.301	2e-05	LOC285796	Hypermethylated in FP vs FN
cg26661922	0.756	0.416	0.340	2e-05	NA	Hypermethylated in FP vs FN
cg23985995	0.669	0.334	0.335	2e-05	NA	Hypermethylated in FP vs FN
cg16721977	0.534	0.281	0.254	2e-05	ABLIM1	Hypermethylated in FP vs FN
cg10705391	0.675	0.415	0.260	2e-05	NA	Hypermethylated in FP vs FN
cg15952487	0.593	0.278	0.315	2e-05	NA	Hypermethylated in FP vs FN
cg22016094	0.742	0.449	0.293	2e-05	NA	Hypermethylated in FP vs FN
cg12757143	0.663	0.360	0.303	2e-05	WDR85	Hypermethylated in FP vs FN
cg02981003	0.812	0.546	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg27098470	0.758	0.437	0.321	2e-05	NFAM1	Hypermethylated in FP vs FN
cg00875382	0.622	0.362	0.260	2e-05	NA	Hypermethylated in FP vs FN
cg23647784	0.564	0.313	0.251	2e-05	NA	Hypermethylated in FP vs FN
cg04388244	0.678	0.366	0.312	2e-05	NA	Hypermethylated in FP vs FN
cg27138204	0.762	0.459	0.302	2e-05	NA	Hypermethylated in FP vs FN
cg12777753	0.821	0.571	0.250	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07091593	0.511	0.138	0.373	2e-05	BCL6	Hypermethylated in FP vs FN
cg06900514	0.633	0.357	0.276	2e-05	NA	Hypermethylated in FP vs FN
cg12112556	0.770	0.473	0.297	2e-05	NA	Hypermethylated in FP vs FN
cg16701852	0.649	0.361	0.288	2e-05	NA	Hypermethylated in FP vs FN
cg19312356	0.791	0.480	0.311	2e-05	NA	Hypermethylated in FP vs FN
cg26015134	0.673	0.403	0.270	2e-05	NA	Hypermethylated in FP vs FN
cg08677210	0.698	0.418	0.279	2e-05	NA	Hypermethylated in FP vs FN
cg22644320	0.692	0.354	0.338	2e-05	NA	Hypermethylated in FP vs FN
cg16764781	0.690	0.434	0.256	2e-05	TP63	Hypermethylated in FP vs FN
cg23686214	0.763	0.477	0.286	2e-05	NA	Hypermethylated in FP vs FN
cg21771891	0.548	0.265	0.283	2e-05	HIST1H2AJ_HIST1H2BM	Hypermethylated in FP vs FN
cg03253737	0.579	0.271	0.308	2e-05	NA	Hypermethylated in FP vs FN
cg24684357	0.548	0.234	0.314	2e-05	RIPK4	Hypermethylated in FP vs FN
cg03794862	0.704	0.421	0.283	2e-05	NA	Hypermethylated in FP vs FN
cg01246622	0.548	0.288	0.260	2e-05	NA	Hypermethylated in FP vs FN
cg02397571	0.688	0.404	0.285	2e-05	NA	Hypermethylated in FP vs FN
cg08133584	0.637	0.322	0.315	2e-05	C16orf11	Hypermethylated in FP vs FN
cg13343687	0.534	0.238	0.297	2e-05	NA	Hypermethylated in FP vs FN
cg03869225	0.719	0.458	0.261	2e-05	NA	Hypermethylated in FP vs FN
cg22084515	0.758	0.469	0.289	2e-05	NA	Hypermethylated in FP vs FN
cg08501292	0.650	0.335	0.315	2e-05	TRIM38	Hypermethylated in FP vs FN
cg09851545	0.633	0.323	0.310	2e-05	NA	Hypermethylated in FP vs FN
cg08353973	0.665	0.391	0.275	2e-05	NA	Hypermethylated in FP vs FN
cg25531836	0.661	0.269	0.393	2e-05	NA	Hypermethylated in FP vs FN
cg04438395	0.736	0.438	0.298	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02270412	0.644	0.319	0.325	2e-05	NA	Hypermethylated in FP vs FN
cg01129320	0.847	0.547	0.301	2e-05	NA	Hypermethylated in FP vs FN
cg26288249	0.460	0.108	0.352	2e-05	AKAP2	Hypermethylated in FP vs FN
cg08393041	0.839	0.534	0.305	2e-05	NA	Hypermethylated in FP vs FN
cg06969287	0.576	0.213	0.363	2e-05	NA	Hypermethylated in FP vs FN
cg00178551	0.670	0.420	0.251	2e-05	NA	Hypermethylated in FP vs FN
cg01917069	0.696	0.306	0.390	2e-05	NA	Hypermethylated in FP vs FN
cg26672959	0.635	0.350	0.285	2e-05	NA	Hypermethylated in FP vs FN
cg12667939	0.755	0.391	0.364	2e-05	NA	Hypermethylated in FP vs FN
cg02981992	0.522	0.230	0.292	2e-05	COL19A1	Hypermethylated in FP vs FN
cg26199857	0.655	0.290	0.365	2e-05	NA	Hypermethylated in FP vs FN
cg02764093	0.761	0.438	0.323	2e-05	NA	Hypermethylated in FP vs FN
cg05283646	0.932	0.619	0.312	2e-05	NA	Hypermethylated in FP vs FN
cg23700125	0.640	0.290	0.350	2e-05	FBXO43	Hypermethylated in FP vs FN
cg21879102	0.761	0.402	0.358	2e-05	NA	Hypermethylated in FP vs FN
cg04026354	0.570	0.277	0.293	2e-05	NA	Hypermethylated in FP vs FN
cg09495643	0.711	0.350	0.361	2e-05	SBNO2	Hypermethylated in FP vs FN
cg20651758	0.652	0.374	0.278	2e-05	NA	Hypermethylated in FP vs FN
cg23164183	0.434	0.162	0.272	2e-05	NA	Hypermethylated in FP vs FN
cg03739378	0.773	0.518	0.254	2e-05	NA	Hypermethylated in FP vs FN
cg19203457	0.512	0.182	0.330	2e-05	NA	Hypermethylated in FP vs FN
cg19579080	0.789	0.491	0.298	2e-05	NA	Hypermethylated in FP vs FN
cg04320316	0.636	0.359	0.277	2e-05	NA	Hypermethylated in FP vs FN
cg05387399	0.644	0.277	0.367	2e-05	NA	Hypermethylated in FP vs FN
cg17824363	0.759	0.425	0.334	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00813746	0.468	0.124	0.344	2e-05	NA	Hypermethylated in FP vs FN
cg23733845	0.732	0.481	0.251	2e-05	NA	Hypermethylated in FP vs FN
cg16275295	0.423	0.155	0.268	2e-05	NA	Hypermethylated in FP vs FN
cg18562663	0.460	0.144	0.317	2e-05	BCL6	Hypermethylated in FP vs FN
cg04925956	0.840	0.582	0.258	2e-05	NA	Hypermethylated in FP vs FN
cg14159342	0.740	0.474	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg15240102	0.806	0.546	0.259	2e-05	NA	Hypermethylated in FP vs FN
cg18614779	0.416	0.162	0.254	2e-05	SIGLEC6	Hypermethylated in FP vs FN
cg00078221	0.726	0.397	0.329	2e-05	NA	Hypermethylated in FP vs FN
cg00199059	0.696	0.429	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg04010586	0.755	0.490	0.265	2e-05	NA	Hypermethylated in FP vs FN
cg14003978	0.725	0.448	0.278	2e-05	NA	Hypermethylated in FP vs FN
cg07494300	0.698	0.379	0.319	2e-05	NA	Hypermethylated in FP vs FN
cg15505287	0.500	0.235	0.266	2e-05	NA	Hypermethylated in FP vs FN
cg25624887	0.812	0.558	0.254	2e-05	NA	Hypermethylated in FP vs FN
cg22870661	0.766	0.489	0.277	2e-05	NA	Hypermethylated in FP vs FN
cg17548844	0.636	0.336	0.301	2e-05	NA	Hypermethylated in FP vs FN
cg18724581	0.556	0.221	0.335	2e-05	NA	Hypermethylated in FP vs FN
cg06710927	0.766	0.427	0.340	2e-05	NA	Hypermethylated in FP vs FN
cg11857997	0.662	0.264	0.398	2e-05	NA	Hypermethylated in FP vs FN
cg08329754	0.784	0.463	0.321	2e-05	NA	Hypermethylated in FP vs FN
cg25247520	0.621	0.313	0.308	2e-05	MIR1204	Hypermethylated in FP vs FN
cg25931491	0.903	0.609	0.294	2e-05	NA	Hypermethylated in FP vs FN
cg22260478	0.615	0.323	0.291	2e-05	CTGF	Hypermethylated in FP vs FN
cg02806675	0.678	0.417	0.261	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16709904	0.805	0.488	0.317	2e-05	LOC732275	Hypermethylated in FP vs FN
cg14421192	0.586	0.242	0.344	2e-05	NA	Hypermethylated in FP vs FN
cg26457248	0.816	0.556	0.260	2e-05	NA	Hypermethylated in FP vs FN
cg15150970	0.551	0.296	0.256	2e-05	NA	Hypermethylated in FP vs FN
cg10594709	0.381	0.081	0.300	2e-05	NA	Hypermethylated in FP vs FN
cg14434293	0.709	0.440	0.269	2e-05	NA	Hypermethylated in FP vs FN
cg00171092	0.650	0.336	0.314	2e-05	NA	Hypermethylated in FP vs FN
cg19939130	0.868	0.616	0.252	2e-05	IFI16	Hypermethylated in FP vs FN
cg09474229	0.720	0.310	0.409	2e-05	NA	Hypermethylated in FP vs FN
cg05592483	0.703	0.419	0.284	2e-05	NA	Hypermethylated in FP vs FN
cg00148862	0.751	0.459	0.292	2e-05	NA	Hypermethylated in FP vs FN
cg01685242	0.367	0.064	0.304	2e-05	NA	Hypermethylated in FP vs FN
cg17440909	0.657	0.374	0.283	2e-05	NA	Hypermethylated in FP vs FN
cg10785263	0.745	0.371	0.374	2e-05	NA	Hypermethylated in FP vs FN
cg00013569	0.812	0.547	0.265	2e-05	NA	Hypermethylated in FP vs FN
cg13656173	0.522	0.259	0.262	2e-05	NA	Hypermethylated in FP vs FN
cg03117005	0.552	0.257	0.295	2e-05	TAF4	Hypermethylated in FP vs FN
cg18448746	0.795	0.477	0.317	2e-05	PROCA1	Hypermethylated in FP vs FN
cg08985785	0.675	0.307	0.368	2e-05	NA	Hypermethylated in FP vs FN
cg07984515	0.634	0.335	0.300	2e-05	NA	Hypermethylated in FP vs FN
cg17429000	0.558	0.213	0.345	2e-05	NA	Hypermethylated in FP vs FN
cg04558175	0.838	0.540	0.298	2e-05	NA	Hypermethylated in FP vs FN
cg02711397	0.671	0.310	0.361	2e-05	NA	Hypermethylated in FP vs FN
cg02089395	0.797	0.461	0.336	2e-05	NA	Hypermethylated in FP vs FN
cg26372400	0.409	0.135	0.274	2e-05	ACVRL1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18536607	0.835	0.568	0.267	2e-05	NA	Hypermethylated in FP vs FN
cg15814750	0.719	0.430	0.289	2e-05	NA	Hypermethylated in FP vs FN
cg04776470	0.713	0.365	0.348	2e-05	NA	Hypermethylated in FP vs FN
cg07271261	0.700	0.432	0.268	2e-05	VGLL4	Hypermethylated in FP vs FN
cg14370448	0.724	0.416	0.308	2e-05	TBX6	Hypermethylated in FP vs FN
cg14840612	0.566	0.279	0.288	2e-05	NA	Hypermethylated in FP vs FN
cg13308080	0.411	0.108	0.303	2e-05	NA	Hypermethylated in FP vs FN
cg08855449	0.862	0.475	0.387	2e-05	ZIC1	Hypermethylated in FP vs FN
cg17064870	0.656	0.342	0.313	2e-05	NA	Hypermethylated in FP vs FN
cg19014335	0.695	0.381	0.314	2e-05	NA	Hypermethylated in FP vs FN
cg09606925	0.778	0.523	0.254	2e-05	NA	Hypermethylated in FP vs FN
cg20495404	0.684	0.364	0.320	2e-05	NA	Hypermethylated in FP vs FN
cg18085176	0.452	0.155	0.297	2e-05	NA	Hypermethylated in FP vs FN
cg06225294	0.708	0.432	0.275	2e-05	ZBTB20	Hypermethylated in FP vs FN
cg21377489	0.533	0.206	0.327	2e-05	NA	Hypermethylated in FP vs FN
cg00961616	0.791	0.508	0.283	2e-05	NA	Hypermethylated in FP vs FN
cg25548986	0.539	0.211	0.327	2e-05	NA	Hypermethylated in FP vs FN
cg21069005	0.810	0.524	0.287	2e-05	NA	Hypermethylated in FP vs FN
cg09167291	0.840	0.587	0.253	2e-05	NA	Hypermethylated in FP vs FN
cg20820876	0.798	0.530	0.267	2e-05	NA	Hypermethylated in FP vs FN
cg18419175	0.629	0.312	0.317	2e-05	NA	Hypermethylated in FP vs FN
cg11243283	0.830	0.549	0.281	2e-05	NA	Hypermethylated in FP vs FN
cg08927145	0.680	0.329	0.351	2e-05	NA	Hypermethylated in FP vs FN
cg18374914	0.551	0.260	0.291	2e-05	NA	Hypermethylated in FP vs FN
cg06777815	0.877	0.609	0.268	2e-05	NA	Hypermethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08708961	0.688	0.398	0.290	2e-05	NA	Hypermethylated in FP vs FN
cg27491887	0.609	0.285	0.324	2e-05	NA	Hypermethylated in FP vs FN
cg25131544	0.737	0.393	0.344	2e-05	NA	Hypermethylated in FP vs FN
cg09871057	0.573	0.302	0.271	2e-05	NA	Hypermethylated in FP vs FN
cg13726459	0.705	0.430	0.275	2e-05	HOXC4_HOXC6_HOXC5	Hypermethylated in FP vs FN
cg22799963	0.787	0.441	0.346	2e-05	NA	Hypermethylated in FP vs FN
cg25347526	0.579	0.274	0.305	2e-05	NA	Hypermethylated in FP vs FN
cg03159396	0.666	0.334	0.331	2e-05	NA	Hypermethylated in FP vs FN
cg23769143	0.762	0.500	0.262	2e-05	TIMP4	Hypermethylated in FP vs FN
cg23790554	0.786	0.469	0.317	2e-05	NA	Hypermethylated in FP vs FN
cg08949101	0.687	0.433	0.254	2e-05	TCP10L	Hypermethylated in FP vs FN
cg06288788	0.789	0.426	0.364	2e-05	NA	Hypermethylated in FP vs FN
cg26883434	0.792	0.533	0.260	2e-05	C5orf13	Hypermethylated in FP vs FN
cg00579531	0.796	0.544	0.252	2e-05	NA	Hypermethylated in FP vs FN
cg27277532	0.592	0.263	0.329	2e-05	NA	Hypermethylated in FP vs FN
cg22488849	0.673	0.375	0.298	2e-05	NA	Hypermethylated in FP vs FN
cg03517376	0.451	0.160	0.291	2e-05	NA	Hypermethylated in FP vs FN
cg20128099	0.590	0.340	0.251	2e-05	NA	Hypermethylated in FP vs FN
cg11997733	0.431	0.176	0.254	2e-05	NA	Hypermethylated in FP vs FN
cg07414571	0.432	0.139	0.293	2e-05	NA	Hypermethylated in FP vs FN
cg08714590	0.849	0.567	0.282	2e-05	FZD1	Hypermethylated in FP vs FN
cg27005179	0.356	0.099	0.257	2e-05	NA	Hypermethylated in FP vs FN
cg13359161	0.849	0.588	0.261	2e-05	NA	Hypermethylated in FP vs FN
cg06040034	0.794	0.438	0.356	2e-05	NA	Hypermethylated in FP vs FN
cg07006718	0.825	0.520	0.305	2e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10689404	0.665	0.311	0.355	3e-05	NA	Hypermethylated in FP vs FN
cg07142797	0.682	0.236	0.446	3e-05	NA	Hypermethylated in FP vs FN
cg13425335	0.501	0.193	0.308	3e-05	NA	Hypermethylated in FP vs FN
cg17147526	0.670	0.348	0.322	3e-05	NA	Hypermethylated in FP vs FN
cg21950107	0.634	0.380	0.255	3e-05	NA	Hypermethylated in FP vs FN
cg11412466	0.718	0.357	0.361	3e-05	NA	Hypermethylated in FP vs FN
cg03178838	0.736	0.376	0.360	3e-05	SBNO2	Hypermethylated in FP vs FN
cg04012797	0.545	0.267	0.277	3e-05	NA	Hypermethylated in FP vs FN
cg01274660	0.515	0.187	0.328	3e-05	NA	Hypermethylated in FP vs FN
cg06962748	0.710	0.460	0.250	3e-05	NA	Hypermethylated in FP vs FN
cg06504526	0.707	0.381	0.326	3e-05	NA	Hypermethylated in FP vs FN
cg11293176	0.681	0.383	0.298	3e-05	NA	Hypermethylated in FP vs FN
cg05678526	0.557	0.298	0.259	3e-05	NA	Hypermethylated in FP vs FN
cg04378886	0.668	0.303	0.365	3e-05	NA	Hypermethylated in FP vs FN
cg19789753	0.761	0.436	0.325	3e-05	NA	Hypermethylated in FP vs FN
cg07252792	0.724	0.431	0.294	3e-05	CCDC116	Hypermethylated in FP vs FN
cg09001356	0.724	0.451	0.272	3e-05	NA	Hypermethylated in FP vs FN
cg12096506	0.493	0.237	0.256	3e-05	NA	Hypermethylated in FP vs FN
cg25902939	0.634	0.263	0.371	3e-05	NA	Hypermethylated in FP vs FN
cg01097897	0.791	0.539	0.252	3e-05	NA	Hypermethylated in FP vs FN
cg16641055	0.686	0.431	0.255	3e-05	NA	Hypermethylated in FP vs FN
cg18404706	0.678	0.341	0.337	3e-05	NA	Hypermethylated in FP vs FN
cg25780607	0.416	0.120	0.297	3e-05	ARSI	Hypermethylated in FP vs FN
cg01797381	0.615	0.354	0.261	3e-05	NA	Hypermethylated in FP vs FN
cg03257341	0.566	0.223	0.343	3e-05	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24504349	0.635	0.375	0.260	3e-05	NA	Hypermethylated in FP vs FN
cg08422497	0.808	0.535	0.274	3e-05	NA	Hypermethylated in FP vs FN
cg25625968	0.593	0.337	0.257	3e-05	NA	Hypermethylated in FP vs FN
cg25617328	0.574	0.279	0.295	3e-05	NA	Hypermethylated in FP vs FN
cg03781931	0.663	0.342	0.320	3e-05	ALX1	Hypermethylated in FP vs FN
cg11410682	0.517	0.230	0.287	3e-05	PNMAL2	Hypermethylated in FP vs FN
cg09395612	0.841	0.539	0.302	3e-05	NA	Hypermethylated in FP vs FN
cg24126630	0.676	0.425	0.251	3e-05	NA	Hypermethylated in FP vs FN
cg11969108	0.801	0.518	0.283	3e-05	NA	Hypermethylated in FP vs FN
cg23564535	0.601	0.302	0.299	3e-05	NA	Hypermethylated in FP vs FN
cg25807487	0.636	0.382	0.255	3e-05	MRGPRF	Hypermethylated in FP vs FN
cg09813610	0.500	0.243	0.256	3e-05	NA	Hypermethylated in FP vs FN
cg00334821	0.598	0.279	0.318	3e-05	NA	Hypermethylated in FP vs FN
cg08154066	0.819	0.535	0.284	3e-05	NA	Hypermethylated in FP vs FN
cg12538674	0.749	0.441	0.308	3e-05	NA	Hypermethylated in FP vs FN
cg15199622	0.734	0.366	0.368	3e-05	NA	Hypermethylated in FP vs FN
cg16058975	0.817	0.531	0.285	3e-05	NA	Hypermethylated in FP vs FN
cg20663219	0.709	0.453	0.256	3e-05	NA	Hypermethylated in FP vs FN
cg24965356	0.774	0.509	0.266	3e-05	NA	Hypermethylated in FP vs FN
cg20288588	0.841	0.514	0.328	3e-05	NA	Hypermethylated in FP vs FN
cg12996903	0.493	0.183	0.311	3e-05	NA	Hypermethylated in FP vs FN
cg01089249	0.684	0.363	0.322	3e-05	NA	Hypermethylated in FP vs FN
cg02503117	0.605	0.294	0.311	3e-05	NA	Hypermethylated in FP vs FN
cg01299332	0.755	0.497	0.257	3e-05	NA	Hypermethylated in FP vs FN
cg02052895	0.461	0.127	0.334	3e-05	NTF3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20918957	0.467	0.215	0.251	3e-05	NA	Hypermethylated in FP vs FN
cg26731327	0.417	0.086	0.330	3e-05	NA	Hypermethylated in FP vs FN
cg17413750	0.835	0.583	0.252	3e-05	NA	Hypermethylated in FP vs FN
cg16355231	0.755	0.499	0.255	3e-05	PEX10	Hypermethylated in FP vs FN
cg12853633	0.758	0.400	0.358	3e-05	NA	Hypermethylated in FP vs FN
cg17502594	0.774	0.515	0.259	3e-05	NA	Hypermethylated in FP vs FN
cg05576949	0.792	0.523	0.268	3e-05	NA	Hypermethylated in FP vs FN
cg16966992	0.686	0.421	0.265	3e-05	COCH	Hypermethylated in FP vs FN
cg05944137	0.727	0.403	0.323	3e-05	NA	Hypermethylated in FP vs FN
cg12359697	0.540	0.182	0.358	3e-05	NA	Hypermethylated in FP vs FN
cg09161043	0.601	0.345	0.256	3e-05	NA	Hypermethylated in FP vs FN
cg09620689	0.764	0.437	0.328	3e-05	NA	Hypermethylated in FP vs FN
cg17301052	0.696	0.385	0.311	3e-05	NA	Hypermethylated in FP vs FN
cg08035234	0.774	0.435	0.339	3e-05	NA	Hypermethylated in FP vs FN
cg01158415	0.722	0.434	0.288	3e-05	NA	Hypermethylated in FP vs FN
cg16435910	0.769	0.452	0.317	3e-05	NA	Hypermethylated in FP vs FN
cg13170728	0.675	0.367	0.307	3e-05	NA	Hypermethylated in FP vs FN
cg10523820	0.418	0.166	0.253	3e-05	ACTN3_ZDHHC24	Hypermethylated in FP vs FN
cg16233311	0.601	0.350	0.251	3e-05	SP9	Hypermethylated in FP vs FN
cg09667289	0.692	0.337	0.355	3e-05	NA	Hypermethylated in FP vs FN
cg13385210	0.645	0.367	0.278	3e-05	IGFBP4	Hypermethylated in FP vs FN
cg21430685	0.618	0.279	0.339	3e-05	NA	Hypermethylated in FP vs FN
cg26725838	0.577	0.220	0.357	3e-05	NA	Hypermethylated in FP vs FN
cg18100702	0.595	0.314	0.281	3e-05	NA	Hypermethylated in FP vs FN
cg04914894	0.661	0.365	0.296	3e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04621042	0.897	0.615	0.281	3e-05	NA	Hypermethylated in FP vs FN
cg13683040	0.364	0.100	0.264	3e-05	PAX5	Hypermethylated in FP vs FN
cg08201311	0.626	0.345	0.282	3e-05	OBSL1	Hypermethylated in FP vs FN
cg16465939	0.692	0.395	0.297	3e-05	NA	Hypermethylated in FP vs FN
cg05401670	0.908	0.637	0.271	3e-05	NA	Hypermethylated in FP vs FN
cg08070771	0.751	0.407	0.344	3e-05	ZIC4_ZIC1	Hypermethylated in FP vs FN
cg05611565	0.827	0.551	0.277	3e-05	NA	Hypermethylated in FP vs FN
cg19551055	0.709	0.439	0.270	3e-05	NA	Hypermethylated in FP vs FN
cg04216235	0.683	0.384	0.299	3e-05	NA	Hypermethylated in FP vs FN
cg04041283	0.588	0.317	0.271	3e-05	NA	Hypermethylated in FP vs FN
cg06545367	0.659	0.387	0.272	3e-05	LRRN3	Hypermethylated in FP vs FN
cg04977528	0.760	0.466	0.294	3e-05	NA	Hypermethylated in FP vs FN
cg07501955	0.663	0.390	0.273	3e-05	NA	Hypermethylated in FP vs FN
cg12744447	0.788	0.520	0.268	3e-05	NA	Hypermethylated in FP vs FN
cg03603505	0.745	0.452	0.293	3e-05	NA	Hypermethylated in FP vs FN
cg07291439	0.720	0.467	0.252	3e-05	ZIC1	Hypermethylated in FP vs FN
cg11549094	0.471	0.170	0.301	3e-05	SULF1	Hypermethylated in FP vs FN
cg05506581	0.637	0.369	0.267	3e-05	NA	Hypermethylated in FP vs FN
cg17569743	0.725	0.415	0.310	3e-05	NA	Hypermethylated in FP vs FN
cg20541870	0.654	0.401	0.253	3e-05	NA	Hypermethylated in FP vs FN
cg10907148	0.615	0.278	0.337	3e-05	NA	Hypermethylated in FP vs FN
cg06556244	0.653	0.390	0.263	3e-05	NA	Hypermethylated in FP vs FN
cg08457169	0.679	0.362	0.317	3e-05	NA	Hypermethylated in FP vs FN
cg02858997	0.735	0.472	0.263	3e-05	GPR45	Hypermethylated in FP vs FN
cg20406460	0.730	0.405	0.325	3e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15001618	0.788	0.516	0.272	3e-05	NA	Hypermethylated in FP vs FN
cg20237820	0.504	0.230	0.274	3e-05	NA	Hypermethylated in FP vs FN
cg18558767	0.637	0.335	0.301	3e-05	MIR1284	Hypermethylated in FP vs FN
cg02021641	0.792	0.539	0.253	3e-05	NA	Hypermethylated in FP vs FN
cg11987231	0.572	0.254	0.318	3e-05	TMEM61	Hypermethylated in FP vs FN
cg19593009	0.664	0.405	0.259	3e-05	NA	Hypermethylated in FP vs FN
cg04506114	0.772	0.490	0.282	3e-05	NA	Hypermethylated in FP vs FN
cg12455309	0.777	0.526	0.251	3e-05	NA	Hypermethylated in FP vs FN
cg01668279	0.590	0.336	0.253	3e-05	MIR483	Hypermethylated in FP vs FN
cg27166381	0.472	0.148	0.324	3e-05	NA	Hypermethylated in FP vs FN
cg12603369	0.819	0.567	0.252	3e-05	NA	Hypermethylated in FP vs FN
cg17088073	0.559	0.198	0.362	3e-05	NA	Hypermethylated in FP vs FN
cg05060704	0.456	0.204	0.252	3e-05	NA	Hypermethylated in FP vs FN
cg11035271	0.694	0.438	0.256	3e-05	NA	Hypermethylated in FP vs FN
cg24080008	0.794	0.452	0.342	3e-05	NA	Hypermethylated in FP vs FN
cg13483916	0.455	0.114	0.341	3e-05	NA	Hypermethylated in FP vs FN
cg06367117	0.493	0.190	0.303	3e-05	ALDOC	Hypermethylated in FP vs FN
cg23916205	0.754	0.460	0.295	3e-05	NA	Hypermethylated in FP vs FN
cg12691534	0.493	0.185	0.308	3e-05	NA	Hypermethylated in FP vs FN
cg25086948	0.817	0.557	0.260	3e-05	NA	Hypermethylated in FP vs FN
cg02390319	0.377	0.073	0.304	4e-05	NA	Hypermethylated in FP vs FN
cg16659284	0.570	0.264	0.306	4e-05	NA	Hypermethylated in FP vs FN
cg14258329	0.776	0.515	0.261	4e-05	NA	Hypermethylated in FP vs FN
cg24750887	0.724	0.408	0.316	4e-05	NA	Hypermethylated in FP vs FN
cg24682512	0.776	0.447	0.329	4e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26439963	0.726	0.296	0.430	4e-05	NA	Hypermethylated in FP vs FN
cg22514682	0.596	0.289	0.308	4e-05	NA	Hypermethylated in FP vs FN
cg26286839	0.828	0.497	0.331	4e-05	NA	Hypermethylated in FP vs FN
cg04310802	0.871	0.604	0.267	4e-05	NA	Hypermethylated in FP vs FN
cg07691306	0.795	0.538	0.257	4e-05	NA	Hypermethylated in FP vs FN
cg18971175	0.647	0.305	0.342	4e-05	NA	Hypermethylated in FP vs FN
cg16228323	0.765	0.368	0.397	4e-05	NA	Hypermethylated in FP vs FN
cg02370232	0.674	0.354	0.320	4e-05	NA	Hypermethylated in FP vs FN
cg00533182	0.742	0.466	0.277	4e-05	NA	Hypermethylated in FP vs FN
cg14451791	0.753	0.476	0.278	4e-05	NA	Hypermethylated in FP vs FN
cg26800771	0.745	0.397	0.347	4e-05	NA	Hypermethylated in FP vs FN
cg17363943	0.770	0.505	0.265	4e-05	NA	Hypermethylated in FP vs FN
cg09908110	0.811	0.450	0.361	4e-05	NA	Hypermethylated in FP vs FN
cg07264666	0.807	0.511	0.296	4e-05	NFAM1	Hypermethylated in FP vs FN
cg03611868	0.786	0.413	0.373	4e-05	NA	Hypermethylated in FP vs FN
cg17566325	0.601	0.307	0.295	4e-05	NA	Hypermethylated in FP vs FN
cg07180883	0.730	0.396	0.333	4e-05	NA	Hypermethylated in FP vs FN
cg13344095	0.829	0.436	0.393	4e-05	NA	Hypermethylated in FP vs FN
cg24686610	0.692	0.354	0.338	4e-05	ZIC4_ZIC1	Hypermethylated in FP vs FN
cg01915791	0.714	0.390	0.324	4e-05	NA	Hypermethylated in FP vs FN
cg08417857	0.781	0.519	0.262	4e-05	NA	Hypermethylated in FP vs FN
cg00475820	0.460	0.197	0.262	4e-05	NA	Hypermethylated in FP vs FN
cg09998861	0.629	0.319	0.310	4e-05	NA	Hypermethylated in FP vs FN
cg13204236	0.541	0.289	0.252	4e-05	NA	Hypermethylated in FP vs FN
cg17767057	0.774	0.492	0.282	4e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15907473	0.589	0.317	0.273	4e-05	GPR180	Hypermethylated in FP vs FN
cg14301932	0.533	0.173	0.360	4e-05	NA	Hypermethylated in FP vs FN
cg02705758	0.714	0.416	0.297	4e-05	NA	Hypermethylated in FP vs FN
cg26228577	0.535	0.229	0.306	4e-05	NA	Hypermethylated in FP vs FN
cg08797704	0.518	0.252	0.266	4e-05	NA	Hypermethylated in FP vs FN
cg06106883	0.678	0.426	0.252	4e-05	NA	Hypermethylated in FP vs FN
cg04895246	0.731	0.474	0.257	4e-05	NA	Hypermethylated in FP vs FN
cg09339219	0.509	0.231	0.278	4e-05	FZD2	Hypermethylated in FP vs FN
cg04244970	0.810	0.549	0.261	4e-05	SLAMF7	Hypermethylated in FP vs FN
cg07506299	0.459	0.148	0.312	4e-05	NA	Hypermethylated in FP vs FN
cg05992786	0.756	0.474	0.281	4e-05	HOXC4	Hypermethylated in FP vs FN
cg01146320	0.479	0.214	0.265	4e-05	OAF	Hypermethylated in FP vs FN
cg12182991	0.470	0.107	0.362	4e-05	NA	Hypermethylated in FP vs FN
cg14905632	0.521	0.185	0.335	4e-05	RAPGEFL1	Hypermethylated in FP vs FN
cg10941185	0.501	0.198	0.302	4e-05	NA	Hypermethylated in FP vs FN
cg27647667	0.858	0.606	0.252	4e-05	NA	Hypermethylated in FP vs FN
cg06772580	0.596	0.340	0.257	4e-05	NA	Hypermethylated in FP vs FN
cg12478370	0.703	0.427	0.276	4e-05	NA	Hypermethylated in FP vs FN
cg04937184	0.515	0.239	0.276	4e-05	BMP4	Hypermethylated in FP vs FN
cg07440958	0.827	0.571	0.256	4e-05	CNR1	Hypermethylated in FP vs FN
cg03517776	0.672	0.343	0.329	4e-05	NA	Hypermethylated in FP vs FN
cg04806447	0.525	0.251	0.274	4e-05	NA	Hypermethylated in FP vs FN
cg09728333	0.574	0.257	0.317	4e-05	NA	Hypermethylated in FP vs FN
cg23802451	0.657	0.398	0.259	4e-05	NA	Hypermethylated in FP vs FN
cg14386808	0.856	0.579	0.278	4e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08969912	0.345	0.066	0.279	4e-05	NA	Hypermethylated in FP vs FN
cg09938674	0.816	0.535	0.281	4e-05	NA	Hypermethylated in FP vs FN
cg05986067	0.716	0.448	0.269	4e-05	NA	Hypermethylated in FP vs FN
cg07123608	0.851	0.558	0.293	4e-05	NA	Hypermethylated in FP vs FN
cg17610169	0.770	0.504	0.265	4e-05	NA	Hypermethylated in FP vs FN
cg00612905	0.698	0.374	0.324	4e-05	NA	Hypermethylated in FP vs FN
cg03435384	0.717	0.407	0.310	4e-05	NA	Hypermethylated in FP vs FN
cg07847030	0.562	0.254	0.308	4e-05	NA	Hypermethylated in FP vs FN
cg26736200	0.724	0.408	0.316	4e-05	NA	Hypermethylated in FP vs FN
cg11452571	0.433	0.072	0.361	4e-05	NA	Hypermethylated in FP vs FN
cg05259872	0.540	0.276	0.264	4e-05	PALLD	Hypermethylated in FP vs FN
cg04810287	0.718	0.434	0.284	4e-05	NNAT	Hypermethylated in FP vs FN
cg00842687	0.670	0.417	0.253	4e-05	NA	Hypermethylated in FP vs FN
cg00314343	0.843	0.556	0.287	4e-05	NA	Hypermethylated in FP vs FN
cg13782615	0.687	0.411	0.276	4e-05	NA	Hypermethylated in FP vs FN
cg22641350	0.851	0.538	0.313	4e-05	NA	Hypermethylated in FP vs FN
cg00102731	0.780	0.494	0.286	4e-05	NA	Hypermethylated in FP vs FN
cg13537156	0.659	0.355	0.304	4e-05	NA	Hypermethylated in FP vs FN
cg01636575	0.630	0.347	0.283	4e-05	NA	Hypermethylated in FP vs FN
cg19430897	0.402	0.125	0.277	4e-05	HIST1H2AB	Hypermethylated in FP vs FN
cg19244562	0.715	0.421	0.294	4e-05	NA	Hypermethylated in FP vs FN
cg13539372	0.722	0.463	0.259	4e-05	NA	Hypermethylated in FP vs FN
cg13621679	0.541	0.176	0.365	4e-05	NA	Hypermethylated in FP vs FN
cg01282074	0.401	0.142	0.259	4e-05	NKX2-5	Hypermethylated in FP vs FN
cg05179645	0.790	0.540	0.250	4e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02524236	0.672	0.374	0.298	4e-05	NA	Hypermethylated in FP vs FN
cg01495363	0.738	0.480	0.258	4e-05	LOC100287216	Hypermethylated in FP vs FN
cg23189410	0.846	0.417	0.429	4e-05	ZIC4_ZIC1	Hypermethylated in FP vs FN
cg25080501	0.502	0.248	0.254	4e-05	NA	Hypermethylated in FP vs FN
cg16852483	0.771	0.422	0.348	4e-05	ITGBL1	Hypermethylated in FP vs FN
cg07621385	0.797	0.537	0.260	4e-05	NA	Hypermethylated in FP vs FN
cg26857315	0.746	0.396	0.351	4e-05	NA	Hypermethylated in FP vs FN
cg05313949	0.749	0.473	0.277	4e-05	NA	Hypermethylated in FP vs FN
cg05552874	0.731	0.478	0.253	4e-05	NA	Hypermethylated in FP vs FN
cg27185976	0.736	0.476	0.260	4e-05	NA	Hypermethylated in FP vs FN
cg18709349	0.508	0.191	0.317	4e-05	PNMAL2	Hypermethylated in FP vs FN
cg22601108	0.754	0.435	0.319	4e-05	OR6K6	Hypermethylated in FP vs FN
cg01786048	0.708	0.425	0.283	4e-05	NA	Hypermethylated in FP vs FN
cg18374181	0.651	0.299	0.352	4e-05	NA	Hypermethylated in FP vs FN
cg25552317	0.772	0.495	0.276	4e-05	NA	Hypermethylated in FP vs FN
cg25547361	0.430	0.147	0.283	4e-05	NA	Hypermethylated in FP vs FN
cg08448479	0.791	0.516	0.275	4e-05	NA	Hypermethylated in FP vs FN
cg19747911	0.820	0.524	0.296	4e-05	NA	Hypermethylated in FP vs FN
cg12727398	0.635	0.266	0.369	4e-05	NA	Hypermethylated in FP vs FN
cg07201996	0.716	0.461	0.255	4e-05	NA	Hypermethylated in FP vs FN
cg19052164	0.827	0.530	0.296	4e-05	NA	Hypermethylated in FP vs FN
cg03185144	0.711	0.454	0.257	4e-05	NA	Hypermethylated in FP vs FN
cg27221424	0.698	0.417	0.281	4e-05	TIMP3	Hypermethylated in FP vs FN
cg00814909	0.730	0.388	0.342	5e-05	NA	Hypermethylated in FP vs FN
cg18032164	0.638	0.323	0.315	5e-05	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12292205	0.776	0.525	0.251	5e-05	NA	Hypermethylated in FP vs FN
cg14954582	0.669	0.361	0.309	5e-05	NA	Hypermethylated in FP vs FN
cg10264687	0.546	0.199	0.348	5e-05	NA	Hypermethylated in FP vs FN
cg17231347	0.750	0.433	0.317	5e-05	NA	Hypermethylated in FP vs FN
cg01751245	0.732	0.400	0.331	5e-05	SPRED2	Hypermethylated in FP vs FN
cg09884146	0.686	0.330	0.356	5e-05	SPRED2	Hypermethylated in FP vs FN
cg11258494	0.686	0.436	0.250	5e-05	NA	Hypermethylated in FP vs FN
cg08536999	0.762	0.505	0.257	5e-05	NA	Hypermethylated in FP vs FN
cg04144394	0.532	0.250	0.282	5e-05	NA	Hypermethylated in FP vs FN
cg10457440	0.655	0.395	0.261	5e-05	NA	Hypermethylated in FP vs FN
cg16706905	0.713	0.461	0.253	5e-05	NA	Hypermethylated in FP vs FN
cg18362448	0.692	0.391	0.301	5e-05	NA	Hypermethylated in FP vs FN
cg14464551	0.756	0.403	0.353	5e-05	NA	Hypermethylated in FP vs FN
cg06508783	0.392	0.121	0.272	5e-05	NA	Hypermethylated in FP vs FN
cg04821248	0.781	0.504	0.277	5e-05	NA	Hypermethylated in FP vs FN
cg17680823	0.756	0.436	0.320	5e-05	NA	Hypermethylated in FP vs FN
cg08006672	0.761	0.466	0.295	5e-05	NA	Hypermethylated in FP vs FN
cg17866778	0.713	0.345	0.368	5e-05	NA	Hypermethylated in FP vs FN
cg08287791	0.827	0.499	0.328	5e-05	NA	Hypermethylated in FP vs FN
cg10287321	0.620	0.361	0.259	5e-05	NA	Hypermethylated in FP vs FN
cg03103218	0.830	0.503	0.327	5e-05	NA	Hypermethylated in FP vs FN
cg03115444	0.753	0.460	0.294	5e-05	NA	Hypermethylated in FP vs FN
cg00465970	0.781	0.458	0.323	5e-05	NA	Hypermethylated in FP vs FN
cg04494562	0.539	0.232	0.307	5e-05	NA	Hypermethylated in FP vs FN
cg22730140	0.604	0.252	0.352	5e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10837429	0.726	0.384	0.342	5e-05	NA	Hypermethylated in FP vs FN
cg22221870	0.303	0.043	0.259	5e-05	FAM3B	Hypermethylated in FP vs FN
cg06824013	0.484	0.208	0.276	5e-05	NA	Hypermethylated in FP vs FN
cg24742614	0.564	0.292	0.272	5e-05	NA	Hypermethylated in FP vs FN
cg10173186	0.660	0.320	0.340	5e-05	TIMP4	Hypermethylated in FP vs FN
cg02697649	0.852	0.561	0.291	5e-05	FZD7	Hypermethylated in FP vs FN
cg04352168	0.841	0.586	0.255	5e-05	NA	Hypermethylated in FP vs FN
cg17534540	0.671	0.330	0.340	5e-05	NA	Hypermethylated in FP vs FN
cg03076094	0.673	0.375	0.297	5e-05	NA	Hypermethylated in FP vs FN
cg12520861	0.442	0.190	0.252	5e-05	NA	Hypermethylated in FP vs FN
cg23912509	0.694	0.404	0.289	5e-05	MIR135A2	Hypermethylated in FP vs FN
cg19802649	0.705	0.394	0.311	5e-05	NA	Hypermethylated in FP vs FN
cg11757040	0.699	0.437	0.262	5e-05	NA	Hypermethylated in FP vs FN
cg25407528	0.789	0.536	0.253	5e-05	NA	Hypermethylated in FP vs FN
cg25419506	0.382	0.095	0.287	5e-05	EIF4EBP3	Hypermethylated in FP vs FN
cg16264616	0.723	0.403	0.320	5e-05	NA	Hypermethylated in FP vs FN
cg24105407	0.601	0.333	0.268	5e-05	TAS1R1_NOL9	Hypermethylated in FP vs FN
cg05638439	0.853	0.505	0.348	5e-05	NA	Hypermethylated in FP vs FN
cg20822818	0.443	0.178	0.265	5e-05	USP2	Hypermethylated in FP vs FN
cg03989749	0.775	0.496	0.279	5e-05	NA	Hypermethylated in FP vs FN
cg24608144	0.663	0.378	0.285	5e-05	NA	Hypermethylated in FP vs FN
cg09081997	0.520	0.259	0.261	5e-05	NA	Hypermethylated in FP vs FN
cg02968918	0.636	0.325	0.310	5e-05	NA	Hypermethylated in FP vs FN
cg05417332	0.692	0.435	0.257	5e-05	TBX6	Hypermethylated in FP vs FN
cg02410200	0.498	0.161	0.337	5e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04771946	0.672	0.325	0.347	5e-05	NA	Hypermethylated in FP vs FN
cg14668747	0.528	0.219	0.309	5e-05	ALDOC	Hypermethylated in FP vs FN
cg17536603	0.539	0.186	0.354	5e-05	NA	Hypermethylated in FP vs FN
cg14524724	0.785	0.530	0.255	5e-05	NA	Hypermethylated in FP vs FN
cg20686551	0.506	0.246	0.260	5e-05	EML1	Hypermethylated in FP vs FN
cg10451262	0.779	0.494	0.284	5e-05	NA	Hypermethylated in FP vs FN
cg26791399	0.740	0.458	0.282	5e-05	ZIC4	Hypermethylated in FP vs FN
cg23264776	0.808	0.485	0.322	5e-05	NA	Hypermethylated in FP vs FN
cg13821914	0.743	0.491	0.253	5e-05	NA	Hypermethylated in FP vs FN
cg23193209	0.803	0.543	0.261	5e-05	NA	Hypermethylated in FP vs FN
cg18772376	0.581	0.317	0.265	5e-05	NA	Hypermethylated in FP vs FN
cg08693490	0.555	0.275	0.280	5e-05	NA	Hypermethylated in FP vs FN
cg23526973	0.548	0.141	0.407	5e-05	NA	Hypermethylated in FP vs FN
cg00273359	0.719	0.448	0.271	5e-05	NA	Hypermethylated in FP vs FN
cg09166410	0.591	0.337	0.255	5e-05	NA	Hypermethylated in FP vs FN
cg18735451	0.721	0.432	0.288	5e-05	NA	Hypermethylated in FP vs FN
cg00990690	0.708	0.453	0.255	5e-05	NA	Hypermethylated in FP vs FN
cg14245947	0.394	0.132	0.262	5e-05	PHPT1	Hypermethylated in FP vs FN
cg26525076	0.852	0.573	0.279	5e-05	NA	Hypermethylated in FP vs FN
cg17524017	0.427	0.115	0.311	5e-05	SULF1	Hypermethylated in FP vs FN
cg04920452	0.757	0.478	0.279	5e-05	NA	Hypermethylated in FP vs FN
cg05210671	0.708	0.402	0.306	5e-05	NA	Hypermethylated in FP vs FN
cg15233611	0.605	0.335	0.270	5e-05	NA	Hypermethylated in FP vs FN
cg14202146	0.715	0.461	0.254	5e-05	NA	Hypermethylated in FP vs FN
cg06733155	0.659	0.349	0.310	5e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24260156	0.687	0.422	0.265	5e-05	NA	Hypermethylated in FP vs FN
cg09199014	0.636	0.349	0.287	5e-05	NA	Hypermethylated in FP vs FN
cg08309529	0.579	0.260	0.320	6e-05	NA	Hypermethylated in FP vs FN
cg11746156	0.811	0.559	0.252	6e-05	NA	Hypermethylated in FP vs FN
cg02093692	0.616	0.339	0.277	6e-05	NA	Hypermethylated in FP vs FN
cg14166485	0.754	0.441	0.313	6e-05	NA	Hypermethylated in FP vs FN
cg21374672	0.660	0.396	0.265	6e-05	NA	Hypermethylated in FP vs FN
cg13054613	0.773	0.511	0.261	6e-05	NA	Hypermethylated in FP vs FN
cg15022387	0.488	0.181	0.306	6e-05	NA	Hypermethylated in FP vs FN
cg17561417	0.472	0.183	0.289	6e-05	FBLN2	Hypermethylated in FP vs FN
cg00183684	0.826	0.489	0.337	6e-05	DDAH1	Hypermethylated in FP vs FN
cg19703240	0.636	0.377	0.259	6e-05	NA	Hypermethylated in FP vs FN
cg18005901	0.355	0.097	0.258	6e-05	NA	Hypermethylated in FP vs FN
cg25556035	0.705	0.423	0.282	6e-05	NA	Hypermethylated in FP vs FN
cg26264232	0.657	0.273	0.384	6e-05	NA	Hypermethylated in FP vs FN
cg12603632	0.657	0.341	0.316	6e-05	NA	Hypermethylated in FP vs FN
cg21131711	0.716	0.463	0.252	6e-05	NA	Hypermethylated in FP vs FN
cg25058482	0.640	0.377	0.263	6e-05	TANK	Hypermethylated in FP vs FN
cg19576241	0.713	0.395	0.319	6e-05	NA	Hypermethylated in FP vs FN
cg16235809	0.700	0.422	0.279	6e-05	NA	Hypermethylated in FP vs FN
cg01128736	0.590	0.275	0.315	6e-05	NA	Hypermethylated in FP vs FN
cg00008695	0.839	0.563	0.276	6e-05	NA	Hypermethylated in FP vs FN
cg03287339	0.791	0.420	0.371	6e-05	NA	Hypermethylated in FP vs FN
cg12769705	0.735	0.378	0.357	6e-05	NA	Hypermethylated in FP vs FN
cg17611686	0.657	0.349	0.308	6e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21406786	0.654	0.399	0.256	6e-05	NA	Hypermethylated in FP vs FN
cg05191919	0.701	0.428	0.273	6e-05	NA	Hypermethylated in FP vs FN
cg00901982	0.707	0.442	0.266	6e-05	NA	Hypermethylated in FP vs FN
cg02414889	0.714	0.459	0.255	6e-05	NA	Hypermethylated in FP vs FN
cg15001131	0.796	0.493	0.303	6e-05	NA	Hypermethylated in FP vs FN
cg05279806	0.907	0.657	0.250	6e-05	NA	Hypermethylated in FP vs FN
cg01452169	0.493	0.238	0.255	6e-05	NA	Hypermethylated in FP vs FN
cg01690062	0.428	0.164	0.264	6e-05	NA	Hypermethylated in FP vs FN
cg21936959	0.750	0.480	0.270	6e-05	MRGPRF	Hypermethylated in FP vs FN
cg12730047	0.762	0.447	0.316	6e-05	NA	Hypermethylated in FP vs FN
cg23672278	0.695	0.433	0.262	6e-05	NA	Hypermethylated in FP vs FN
cg25801976	0.656	0.320	0.335	6e-05	NA	Hypermethylated in FP vs FN
cg09158990	0.416	0.108	0.308	6e-05	WNT1	Hypermethylated in FP vs FN
cg27032075	0.649	0.389	0.260	6e-05	NA	Hypermethylated in FP vs FN
cg22077197	0.507	0.242	0.265	6e-05	NA	Hypermethylated in FP vs FN
cg14905466	0.692	0.377	0.315	6e-05	SGK1	Hypermethylated in FP vs FN
cg05082527	0.651	0.398	0.253	6e-05	MIR130A	Hypermethylated in FP vs FN
cg27321913	0.521	0.249	0.271	6e-05	DEF6	Hypermethylated in FP vs FN
cg07151966	0.824	0.570	0.254	6e-05	NA	Hypermethylated in FP vs FN
cg19392656	0.442	0.169	0.273	6e-05	FBLN2	Hypermethylated in FP vs FN
cg14547509	0.576	0.315	0.261	6e-05	NA	Hypermethylated in FP vs FN
cg17201135	0.782	0.510	0.272	6e-05	NA	Hypermethylated in FP vs FN
cg16522491	0.594	0.326	0.267	6e-05	NA	Hypermethylated in FP vs FN
cg04783210	0.598	0.343	0.256	6e-05	NA	Hypermethylated in FP vs FN
cg27249422	0.484	0.211	0.273	6e-05	DHX58	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07536502	0.386	0.121	0.264	6e-05	NA	Hypermethylated in FP vs FN
cg20071561	0.846	0.546	0.300	6e-05	NA	Hypermethylated in FP vs FN
cg04473902	0.710	0.399	0.311	6e-05	PLBD1	Hypermethylated in FP vs FN
cg18017926	0.605	0.247	0.358	6e-05	NA	Hypermethylated in FP vs FN
cg24690231	0.491	0.202	0.289	7e-05	NA	Hypermethylated in FP vs FN
cg16942223	0.778	0.430	0.349	7e-05	NA	Hypermethylated in FP vs FN
cg25605102	0.810	0.512	0.298	7e-05	NA	Hypermethylated in FP vs FN
cg25291653	0.595	0.311	0.284	7e-05	NA	Hypermethylated in FP vs FN
cg21750179	0.759	0.505	0.254	7e-05	NA	Hypermethylated in FP vs FN
cg14591123	0.733	0.346	0.387	7e-05	NA	Hypermethylated in FP vs FN
cg20683445	0.770	0.516	0.254	7e-05	NA	Hypermethylated in FP vs FN
cg16253976	0.697	0.435	0.261	7e-05	NA	Hypermethylated in FP vs FN
cg19176828	0.639	0.322	0.317	7e-05	NA	Hypermethylated in FP vs FN
cg13526642	0.613	0.343	0.270	7e-05	NA	Hypermethylated in FP vs FN
cg02954194	0.721	0.439	0.282	7e-05	NA	Hypermethylated in FP vs FN
cg19022814	0.718	0.380	0.338	7e-05	NA	Hypermethylated in FP vs FN
cg02852791	0.766	0.392	0.374	7e-05	NA	Hypermethylated in FP vs FN
cg02855740	0.737	0.439	0.297	7e-05	NA	Hypermethylated in FP vs FN
cg02820514	0.706	0.365	0.341	7e-05	ZIC4	Hypermethylated in FP vs FN
cg15682797	0.855	0.562	0.293	7e-05	NA	Hypermethylated in FP vs FN
cg24376266	0.311	0.059	0.252	7e-05	FAM3B	Hypermethylated in FP vs FN
cg11570511	0.485	0.188	0.297	7e-05	NA	Hypermethylated in FP vs FN
cg18609783	0.667	0.393	0.274	7e-05	SP9	Hypermethylated in FP vs FN
cg10107050	0.727	0.342	0.385	7e-05	ZIC1	Hypermethylated in FP vs FN
cg06153893	0.609	0.273	0.336	7e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17484733	0.591	0.251	0.339	7e-05	NA	Hypermethylated in FP vs FN
cg10842913	0.769	0.494	0.275	7e-05	NA	Hypermethylated in FP vs FN
cg25157914	0.552	0.290	0.261	7e-05	STAT6	Hypermethylated in FP vs FN
cg07429146	0.612	0.311	0.301	7e-05	NA	Hypermethylated in FP vs FN
cg18150120	0.646	0.315	0.331	7e-05	NA	Hypermethylated in FP vs FN
cg09155362	0.551	0.279	0.272	7e-05	NA	Hypermethylated in FP vs FN
cg19881992	0.753	0.489	0.265	7e-05	NA	Hypermethylated in FP vs FN
cg16038738	0.646	0.367	0.279	7e-05	NA	Hypermethylated in FP vs FN
cg18851960	0.623	0.352	0.271	7e-05	NA	Hypermethylated in FP vs FN
cg16844403	0.397	0.108	0.289	7e-05	WNT1	Hypermethylated in FP vs FN
cg11751545	0.773	0.441	0.333	7e-05	NA	Hypermethylated in FP vs FN
cg10794502	0.838	0.566	0.273	7e-05	NA	Hypermethylated in FP vs FN
cg13092405	0.866	0.470	0.396	7e-05	NA	Hypermethylated in FP vs FN
cg24579851	0.716	0.412	0.304	7e-05	NA	Hypermethylated in FP vs FN
cg04548856	0.734	0.391	0.343	7e-05	NA	Hypermethylated in FP vs FN
cg08857063	0.614	0.293	0.321	7e-05	NA	Hypermethylated in FP vs FN
cg14372753	0.788	0.521	0.268	7e-05	NA	Hypermethylated in FP vs FN
cg09682469	0.772	0.506	0.267	7e-05	NA	Hypermethylated in FP vs FN
cg25624690	0.875	0.625	0.250	7e-05	NA	Hypermethylated in FP vs FN
cg26473189	0.742	0.455	0.287	7e-05	NA	Hypermethylated in FP vs FN
cg19391527	0.623	0.360	0.263	7e-05	PNOC	Hypermethylated in FP vs FN
cg17484237	0.683	0.386	0.297	7e-05	HAVCR2	Hypermethylated in FP vs FN
cg08130572	0.710	0.431	0.278	7e-05	FYN	Hypermethylated in FP vs FN
cg18764814	0.770	0.496	0.275	7e-05	NA	Hypermethylated in FP vs FN
cg19688203	0.626	0.340	0.287	7e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23477460	0.751	0.437	0.315	7e-05	NA	Hypermethylated in FP vs FN
cg18735810	0.647	0.313	0.334	7e-05	NA	Hypermethylated in FP vs FN
cg19760241	0.546	0.220	0.327	7e-05	NA	Hypermethylated in FP vs FN
cg08672225	0.667	0.410	0.257	7e-05	NA	Hypermethylated in FP vs FN
cg21796528	0.557	0.264	0.293	7e-05	NA	Hypermethylated in FP vs FN
cg19163058	0.883	0.615	0.268	7e-05	NA	Hypermethylated in FP vs FN
cg16881676	0.615	0.339	0.276	7e-05	NA	Hypermethylated in FP vs FN
cg24089935	0.339	0.081	0.258	7e-05	NA	Hypermethylated in FP vs FN
cg20918393	0.555	0.240	0.315	7e-05	NA	Hypermethylated in FP vs FN
cg09266602	0.555	0.280	0.275	7e-05	NA	Hypermethylated in FP vs FN
cg26657382	0.596	0.290	0.306	7e-05	NA	Hypermethylated in FP vs FN
cg06990142	0.874	0.577	0.297	7e-05	NA	Hypermethylated in FP vs FN
cg08075452	0.698	0.431	0.267	8e-05	NA	Hypermethylated in FP vs FN
cg12992686	0.815	0.555	0.260	8e-05	NA	Hypermethylated in FP vs FN
cg07759247	0.628	0.295	0.333	8e-05	NA	Hypermethylated in FP vs FN
cg10938221	0.778	0.512	0.266	8e-05	NA	Hypermethylated in FP vs FN
cg15091747	0.869	0.582	0.287	8e-05	NA	Hypermethylated in FP vs FN
cg08657671	0.701	0.399	0.302	8e-05	NA	Hypermethylated in FP vs FN
cg22962982	0.697	0.344	0.353	8e-05	NA	Hypermethylated in FP vs FN
cg12446543	0.669	0.398	0.271	8e-05	NA	Hypermethylated in FP vs FN
cg07601542	0.760	0.468	0.292	8e-05	OLIG2	Hypermethylated in FP vs FN
cg03231163	0.733	0.373	0.361	8e-05	NA	Hypermethylated in FP vs FN
cg16821992	0.465	0.157	0.308	8e-05	NA	Hypermethylated in FP vs FN
cg20810222	0.584	0.324	0.260	8e-05	NA	Hypermethylated in FP vs FN
cg13023014	0.609	0.312	0.296	8e-05	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27312979	0.759	0.470	0.289	8e-05	NA	Hypermethylated in FP vs FN
cg13031251	0.672	0.320	0.352	8e-05	NA	Hypermethylated in FP vs FN
cg02311193	0.805	0.510	0.294	8e-05	NA	Hypermethylated in FP vs FN
cg14339599	0.482	0.186	0.296	8e-05	NA	Hypermethylated in FP vs FN
cg00335219	0.618	0.337	0.281	8e-05	NA	Hypermethylated in FP vs FN
cg17033854	0.619	0.334	0.285	8e-05	NA	Hypermethylated in FP vs FN
cg08558967	0.808	0.545	0.263	8e-05	NA	Hypermethylated in FP vs FN
cg23750361	0.690	0.435	0.256	8e-05	NA	Hypermethylated in FP vs FN
cg13496862	0.737	0.479	0.258	8e-05	NA	Hypermethylated in FP vs FN
cg22352152	0.551	0.295	0.256	8e-05	NA	Hypermethylated in FP vs FN
cg15531433	0.752	0.485	0.267	8e-05	NA	Hypermethylated in FP vs FN
cg25789721	0.470	0.214	0.256	8e-05	NA	Hypermethylated in FP vs FN
cg05261893	0.755	0.487	0.268	8e-05	NA	Hypermethylated in FP vs FN
cg18127003	0.929	0.644	0.285	8e-05	NA	Hypermethylated in FP vs FN
cg17051318	0.861	0.609	0.251	8e-05	NA	Hypermethylated in FP vs FN
cg08038033	0.628	0.331	0.297	8e-05	NA	Hypermethylated in FP vs FN
cg04687515	0.875	0.602	0.273	8e-05	NA	Hypermethylated in FP vs FN
cg07005067	0.641	0.368	0.273	8e-05	NA	Hypermethylated in FP vs FN
cg21774338	0.736	0.441	0.295	8e-05	NA	Hypermethylated in FP vs FN
cg04166812	0.517	0.207	0.310	8e-05	NA	Hypermethylated in FP vs FN
cg09187413	0.807	0.540	0.267	8e-05	NA	Hypermethylated in FP vs FN
cg17443007	0.771	0.456	0.315	8e-05	NA	Hypermethylated in FP vs FN
cg17485838	0.808	0.459	0.349	8e-05	NA	Hypermethylated in FP vs FN
cg07810469	0.667	0.403	0.264	8e-05	NA	Hypermethylated in FP vs FN
cg25567805	0.813	0.512	0.301	8e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13009869	0.739	0.467	0.273	8e-05	NA	Hypermethylated in FP vs FN
cg17024452	0.418	0.145	0.273	8e-05	NA	Hypermethylated in FP vs FN
cg13789015	0.545	0.289	0.255	8e-05	NCRNA00094	Hypermethylated in FP vs FN
cg23824183	0.699	0.419	0.280	8e-05	NA	Hypermethylated in FP vs FN
cg23796755	0.814	0.543	0.271	8e-05	NA	Hypermethylated in FP vs FN
cg15934368	0.780	0.518	0.262	8e-05	NA	Hypermethylated in FP vs FN
cg07171527	0.675	0.348	0.327	8e-05	NA	Hypermethylated in FP vs FN
cg05747390	0.721	0.464	0.257	8e-05	NA	Hypermethylated in FP vs FN
cg26233084	0.770	0.516	0.255	8e-05	NA	Hypermethylated in FP vs FN
cg17372806	0.665	0.412	0.252	8e-05	RTN3	Hypermethylated in FP vs FN
cg17052926	0.442	0.137	0.305	8e-05	C7orf20	Hypermethylated in FP vs FN
cg00224471	0.628	0.317	0.310	9e-05	NA	Hypermethylated in FP vs FN
cg00005740	0.616	0.313	0.303	9e-05	NA	Hypermethylated in FP vs FN
cg09904140	0.753	0.493	0.260	9e-05	WFDC1	Hypermethylated in FP vs FN
cg20714110	0.562	0.214	0.348	9e-05	NA	Hypermethylated in FP vs FN
cg12039970	0.748	0.447	0.302	9e-05	NA	Hypermethylated in FP vs FN
cg17649293	0.623	0.296	0.327	9e-05	NA	Hypermethylated in FP vs FN
cg04050463	0.753	0.467	0.286	9e-05	NA	Hypermethylated in FP vs FN
cg25423573	0.477	0.216	0.260	9e-05	NA	Hypermethylated in FP vs FN
cg01295782	0.792	0.536	0.256	9e-05	NA	Hypermethylated in FP vs FN
cg27092248	0.641	0.348	0.293	9e-05	HRH1	Hypermethylated in FP vs FN
cg03756778	0.713	0.440	0.273	9e-05	NA	Hypermethylated in FP vs FN
cg00299767	0.559	0.294	0.265	9e-05	NA	Hypermethylated in FP vs FN
cg01896761	0.483	0.153	0.330	9e-05	FBLN2	Hypermethylated in FP vs FN
cg15054725	0.779	0.401	0.378	9e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22132982	0.652	0.372	0.280	9e-05	NA	Hypermethylated in FP vs FN
cg03720195	0.584	0.327	0.258	9e-05	NA	Hypermethylated in FP vs FN
cg11847222	0.724	0.413	0.312	9e-05	NA	Hypermethylated in FP vs FN
cg02931729	0.804	0.513	0.291	9e-05	NA	Hypermethylated in FP vs FN
cg16512661	0.719	0.434	0.285	9e-05	NA	Hypermethylated in FP vs FN
cg05813673	0.649	0.363	0.287	9e-05	NA	Hypermethylated in FP vs FN
cg13716566	0.706	0.434	0.272	9e-05	NA	Hypermethylated in FP vs FN
cg00468228	0.551	0.271	0.280	9e-05	NA	Hypermethylated in FP vs FN
cg12655190	0.717	0.329	0.389	9e-05	NA	Hypermethylated in FP vs FN
cg02051616	0.681	0.316	0.365	9e-05	NA	Hypermethylated in FP vs FN
cg20693607	0.634	0.307	0.327	9e-05	NA	Hypermethylated in FP vs FN
cg27637617	0.582	0.324	0.258	9e-05	NA	Hypermethylated in FP vs FN
cg25008444	0.644	0.382	0.261	9e-05	PIK3R1	Hypermethylated in FP vs FN
cg00992802	0.794	0.534	0.260	9e-05	NA	Hypermethylated in FP vs FN
cg14488390	0.616	0.303	0.313	9e-05	NA	Hypermethylated in FP vs FN
cg16238993	0.728	0.351	0.376	9e-05	SBNO2	Hypermethylated in FP vs FN
cg14924046	0.745	0.431	0.314	9e-05	NA	Hypermethylated in FP vs FN
cg02791973	0.758	0.364	0.393	9e-05	SBNO2	Hypermethylated in FP vs FN
cg12965599	0.734	0.417	0.316	9e-05	ZIC1	Hypermethylated in FP vs FN
cg07557639	0.682	0.373	0.309	9e-05	NA	Hypermethylated in FP vs FN
cg09689895	0.766	0.512	0.255	9e-05	NA	Hypermethylated in FP vs FN
cg01956614	0.652	0.396	0.255	9e-05	NA	Hypermethylated in FP vs FN
cg19821361	0.632	0.325	0.306	9e-05	KRTAP10-6	Hypermethylated in FP vs FN
cg01597387	0.689	0.379	0.309	9e-05	DHRS4L2	Hypermethylated in FP vs FN
cg25767504	0.679	0.279	0.401	9e-05	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07405810	0.497	0.220	0.276	9e-05	NA	Hypermethylated in FP vs FN
cg23885932	0.655	0.336	0.320	9e-05	SBNO2	Hypermethylated in FP vs FN
cg13257436	0.674	0.367	0.307	9e-05	NA	Hypermethylated in FP vs FN
cg08008475	0.671	0.388	0.283	9e-05	NA	Hypermethylated in FP vs FN
cg08324612	0.710	0.435	0.275	9e-05	NA	Hypermethylated in FP vs FN
cg26425305	0.631	0.366	0.265	1e-04	NA	Hypermethylated in FP vs FN
cg07171687	0.605	0.354	0.251	1e-04	NA	Hypermethylated in FP vs FN
cg03635766	0.624	0.356	0.268	1e-04	NA	Hypermethylated in FP vs FN
cg25221774	0.566	0.298	0.269	1e-04	NA	Hypermethylated in FP vs FN
cg01835873	0.397	0.105	0.292	1e-04	RBMS3	Hypermethylated in FP vs FN
cg15236866	0.652	0.368	0.284	1e-04	DLX1	Hypermethylated in FP vs FN
cg25251459	0.764	0.483	0.281	1e-04	LBX2	Hypermethylated in FP vs FN
cg02771661	0.398	0.121	0.277	1e-04	WNT1	Hypermethylated in FP vs FN
cg18837542	0.590	0.289	0.301	1e-04	NA	Hypermethylated in FP vs FN
cg15254238	0.554	0.280	0.274	1e-04	NA	Hypermethylated in FP vs FN
cg15982972	0.595	0.305	0.290	1e-04	NA	Hypermethylated in FP vs FN
cg18603228	0.397	0.116	0.281	1e-04	FBLN2	Hypermethylated in FP vs FN
cg18628646	0.686	0.372	0.314	1e-04	NA	Hypermethylated in FP vs FN
cg01185573	0.835	0.541	0.294	1e-04	NA	Hypermethylated in FP vs FN
cg03281139	0.690	0.410	0.280	1e-04	NA	Hypermethylated in FP vs FN
cg18829411	0.557	0.290	0.268	1e-04	HMGN1	Hypermethylated in FP vs FN
cg03390211	0.394	0.118	0.276	1e-04	NA	Hypermethylated in FP vs FN
cg11068784	0.902	0.524	0.377	1e-04	NA	Hypermethylated in FP vs FN
cg18759732	0.547	0.275	0.272	1e-04	NA	Hypermethylated in FP vs FN
cg20707780	0.396	0.093	0.303	1e-04	ACVRL1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20908789	0.843	0.546	0.298	1e-04	NA	Hypermethylated in FP vs FN
cg16651900	0.712	0.439	0.274	1e-04	NA	Hypermethylated in FP vs FN
cg21421278	0.360	0.098	0.262	1e-04	NA	Hypermethylated in FP vs FN
cg23420286	0.520	0.246	0.274	1e-04	NA	Hypermethylated in FP vs FN
cg23235067	0.818	0.520	0.298	1e-04	NA	Hypermethylated in FP vs FN
cg18894521	0.710	0.445	0.266	1e-04	NA	Hypermethylated in FP vs FN
cg10321156	0.523	0.204	0.319	1e-04	NA	Hypermethylated in FP vs FN
cg24799830	0.792	0.497	0.294	1e-04	ELMO1	Hypermethylated in FP vs FN
cg01067151	0.582	0.283	0.299	1e-04	NA	Hypermethylated in FP vs FN
cg23051248	0.652	0.374	0.278	1e-04	NA	Hypermethylated in FP vs FN
cg19793905	0.682	0.422	0.261	1e-04	RBM43	Hypermethylated in FP vs FN
cg16800623	0.660	0.383	0.277	1e-04	NA	Hypermethylated in FP vs FN
cg17546247	0.859	0.472	0.387	1e-04	ZIC4_ZIC1	Hypermethylated in FP vs FN
cg04220579	0.408	0.125	0.283	1e-04	C7orf20	Hypermethylated in FP vs FN
cg11722971	0.610	0.344	0.266	1e-04	NA	Hypermethylated in FP vs FN
cg20347893	0.709	0.414	0.295	1e-04	NA	Hypermethylated in FP vs FN
cg22499307	0.763	0.503	0.260	1e-04	NA	Hypermethylated in FP vs FN
cg27304533	0.699	0.379	0.320	1e-04	NA	Hypermethylated in FP vs FN
cg03828874	0.684	0.408	0.276	1e-04	NA	Hypermethylated in FP vs FN
cg25391815	0.397	0.121	0.276	1e-04	NA	Hypermethylated in FP vs FN
cg07313523	0.671	0.369	0.302	1e-04	NA	Hypermethylated in FP vs FN
cg10909939	0.850	0.514	0.336	1e-04	NA	Hypermethylated in FP vs FN
cg26034516	0.607	0.267	0.341	1e-04	NA	Hypermethylated in FP vs FN
cg08187687	0.568	0.269	0.299	1e-04	NA	Hypermethylated in FP vs FN
cg10731022	0.375	0.108	0.267	1e-04	EIF4EBP3	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10364249	0.499	0.236	0.263	1e-04	NA	Hypermethylated in FP vs FN
cg04131583	0.693	0.320	0.372	1e-04	NA	Hypermethylated in FP vs FN
cg27196131	0.682	0.378	0.304	1e-04	NA	Hypermethylated in FP vs FN
cg02767665	0.794	0.523	0.271	1e-04	NA	Hypermethylated in FP vs FN
cg23745864	0.724	0.461	0.263	1e-04	NA	Hypermethylated in FP vs FN
cg21199629	0.798	0.529	0.269	1e-04	NA	Hypermethylated in FP vs FN
cg18813527	0.818	0.537	0.281	1e-04	NA	Hypermethylated in FP vs FN
cg13378628	0.401	0.139	0.262	1e-04	OTP	Hypermethylated in FP vs FN
cg00110846	0.767	0.502	0.265	1e-04	NA	Hypermethylated in FP vs FN
cg18881778	0.483	0.230	0.254	1e-04	NA	Hypermethylated in FP vs FN
cg26234980	0.396	0.142	0.254	1e-04	CYGB	Hypermethylated in FP vs FN
cg02910959	0.565	0.280	0.285	1e-04	NA	Hypermethylated in FP vs FN
cg16652747	0.735	0.451	0.285	1e-04	NA	Hypermethylated in FP vs FN
cg01978937	0.735	0.484	0.251	1e-04	NA	Hypermethylated in FP vs FN
cg02351655	0.641	0.351	0.290	1e-04	NA	Hypermethylated in FP vs FN
cg14180758	0.547	0.288	0.258	1e-04	NA	Hypermethylated in FP vs FN
cg11608958	0.737	0.464	0.273	1e-04	NA	Hypermethylated in FP vs FN
cg17574269	0.747	0.464	0.284	1e-04	NA	Hypermethylated in FP vs FN
cg23479053	0.787	0.488	0.299	1e-04	NA	Hypermethylated in FP vs FN
cg21269843	0.508	0.233	0.275	1e-04	OTP	Hypermethylated in FP vs FN
cg05548555	0.722	0.370	0.352	1e-04	ZIC4	Hypermethylated in FP vs FN
cg22796860	0.757	0.352	0.405	1e-04	NA	Hypermethylated in FP vs FN
cg00850612	0.694	0.377	0.317	1e-04	NA	Hypermethylated in FP vs FN
cg18088494	0.472	0.183	0.290	1e-04	NA	Hypermethylated in FP vs FN
cg01556706	0.544	0.266	0.279	1e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16274024	0.620	0.343	0.277	1e-04	NA	Hypermethylated in FP vs FN
cg04675539	0.600	0.312	0.288	1e-04	NA	Hypermethylated in FP vs FN
cg05875982	0.774	0.501	0.274	1e-04	NA	Hypermethylated in FP vs FN
cg06741336	0.828	0.512	0.315	1e-04	NA	Hypermethylated in FP vs FN
cg21168134	0.805	0.491	0.314	1e-04	SLC35F4	Hypermethylated in FP vs FN
cg04628369	0.729	0.406	0.322	1e-04	NA	Hypermethylated in FP vs FN
cg16473762	0.521	0.199	0.322	1e-04	NA	Hypermethylated in FP vs FN
cg12403142	0.776	0.412	0.364	1e-04	NA	Hypermethylated in FP vs FN
cg26846424	0.447	0.174	0.273	1e-04	NA	Hypermethylated in FP vs FN
cg00078299	0.716	0.422	0.294	1e-04	NA	Hypermethylated in FP vs FN
cg03162779	0.685	0.404	0.281	1e-04	NA	Hypermethylated in FP vs FN
cg20431191	0.772	0.425	0.347	1e-04	DDAH1	Hypermethylated in FP vs FN
cg14260002	0.643	0.383	0.260	1e-04	NA	Hypermethylated in FP vs FN
cg22818433	0.552	0.284	0.268	1e-04	NA	Hypermethylated in FP vs FN
cg22635676	0.702	0.321	0.381	1e-04	NA	Hypermethylated in FP vs FN
cg00470007	0.720	0.408	0.312	1e-04	NA	Hypermethylated in FP vs FN
cg03330678	0.740	0.462	0.278	1e-04	9-Sep	Hypermethylated in FP vs FN
cg17981058	0.776	0.383	0.393	1e-04	NA	Hypermethylated in FP vs FN
cg25609393	0.487	0.210	0.277	1e-04	NA	Hypermethylated in FP vs FN
cg13691209	0.657	0.386	0.270	1e-04	NA	Hypermethylated in FP vs FN
cg19807286	0.767	0.509	0.257	1e-04	NA	Hypermethylated in FP vs FN
cg01646109	0.483	0.219	0.265	1e-04	NA	Hypermethylated in FP vs FN
cg13990926	0.518	0.190	0.328	1e-04	NA	Hypermethylated in FP vs FN
cg24975649	0.796	0.544	0.252	1e-04	NA	Hypermethylated in FP vs FN
cg10106284	0.629	0.355	0.274	1e-04	FAM49A	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23491743	0.671	0.312	0.359	1e-04	NA	Hypermethylated in FP vs FN
cg06085985	0.470	0.178	0.292	1e-04	NA	Hypermethylated in FP vs FN
cg21941030	0.654	0.294	0.359	1e-04	RCN3	Hypermethylated in FP vs FN
cg02372889	0.515	0.224	0.291	1e-04	NA	Hypermethylated in FP vs FN
cg15876968	0.734	0.421	0.313	1e-04	NA	Hypermethylated in FP vs FN
cg27070951	0.677	0.415	0.262	1e-04	NA	Hypermethylated in FP vs FN
cg14754787	0.505	0.194	0.311	1e-04	NA	Hypermethylated in FP vs FN
cg09145147	0.857	0.591	0.266	1e-04	NA	Hypermethylated in FP vs FN
cg03320743	0.756	0.479	0.276	1e-04	NA	Hypermethylated in FP vs FN
cg01048445	0.641	0.284	0.357	1e-04	NA	Hypermethylated in FP vs FN
cg26195356	0.762	0.410	0.352	1e-04	NA	Hypermethylated in FP vs FN
cg26195829	0.472	0.209	0.263	1e-04	NA	Hypermethylated in FP vs FN
cg01383955	0.724	0.448	0.276	1e-04	NFAM1	Hypermethylated in FP vs FN
cg00351635	0.593	0.340	0.253	1e-04	NA	Hypermethylated in FP vs FN
cg06179011	0.528	0.250	0.278	1e-04	TSPAN4_POLR2L	Hypermethylated in FP vs FN
cg06319288	0.614	0.326	0.288	1e-04	CCDC116	Hypermethylated in FP vs FN
cg04268670	0.407	0.137	0.270	1e-04	NA	Hypermethylated in FP vs FN
cg22332257	0.605	0.325	0.280	1e-04	NA	Hypermethylated in FP vs FN
cg16663419	0.875	0.620	0.255	1e-04	NA	Hypermethylated in FP vs FN
cg06769296	0.701	0.337	0.364	1e-04	NA	Hypermethylated in FP vs FN
cg03308399	0.620	0.302	0.318	1e-04	NA	Hypermethylated in FP vs FN
cg00599463	0.769	0.463	0.306	1e-04	NA	Hypermethylated in FP vs FN
cg21855211	0.829	0.527	0.302	1e-04	NA	Hypermethylated in FP vs FN
cg03291755	0.713	0.439	0.274	1e-04	NA	Hypermethylated in FP vs FN
cg09050058	0.822	0.568	0.255	1e-04	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12836280	0.659	0.358	0.301	1e-04	NA	Hypermethylated in FP vs FN
cg06691542	0.648	0.347	0.301	1e-04	NA	Hypermethylated in FP vs FN
cg08420572	0.783	0.428	0.356	1e-04	NA	Hypermethylated in FP vs FN
cg26982695	0.531	0.279	0.252	1e-04	NA	Hypermethylated in FP vs FN
cg05620558	0.622	0.363	0.260	1e-04	NA	Hypermethylated in FP vs FN
cg07132183	0.847	0.580	0.267	1e-04	NA	Hypermethylated in FP vs FN
cg19593680	0.709	0.426	0.283	1e-04	NA	Hypermethylated in FP vs FN
cg05521792	0.319	0.062	0.257	1e-04	NA	Hypermethylated in FP vs FN
cg00852595	0.827	0.515	0.312	1e-04	ANKS1B	Hypermethylated in FP vs FN
cg04635983	0.638	0.351	0.287	1e-04	NA	Hypermethylated in FP vs FN
cg25176746	0.818	0.470	0.348	1e-04	NA	Hypermethylated in FP vs FN
cg20172636	0.641	0.382	0.259	1e-04	NA	Hypermethylated in FP vs FN
cg07403865	0.494	0.225	0.269	1e-04	NA	Hypermethylated in FP vs FN
cg05226061	0.546	0.278	0.268	1e-04	PLXDC1	Hypermethylated in FP vs FN
cg19864130	0.804	0.470	0.334	1e-04	SBNO2	Hypermethylated in FP vs FN
cg09073539	0.572	0.243	0.328	1e-04	NA	Hypermethylated in FP vs FN
cg00059737	0.693	0.440	0.254	1e-04	NA	Hypermethylated in FP vs FN
cg19951297	0.607	0.334	0.273	1e-04	NA	Hypermethylated in FP vs FN
cg27425146	0.485	0.235	0.250	1e-04	NA	Hypermethylated in FP vs FN
cg11116086	0.755	0.502	0.253	1e-04	NA	Hypermethylated in FP vs FN
cg11288641	0.331	0.063	0.268	1e-04	FAM3B	Hypermethylated in FP vs FN
cg01636650	0.726	0.320	0.406	1e-04	NA	Hypermethylated in FP vs FN
cg16455791	0.381	0.123	0.257	1e-04	NA	Hypermethylated in FP vs FN
cg24243629	0.545	0.280	0.265	1e-04	NA	Hypermethylated in FP vs FN
cg14838433	0.495	0.200	0.295	1e-04	TMEM61	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25207248	0.448	0.182	0.266	1e-04	NA	Hypermethylated in FP vs FN
cg12523526	0.546	0.239	0.307	1e-04	NA	Hypermethylated in FP vs FN
cg24274117	0.612	0.217	0.395	1e-04	NA	Hypermethylated in FP vs FN
cg19583968	0.467	0.185	0.282	1e-04	TMEM61	Hypermethylated in FP vs FN
cg26724949	0.690	0.357	0.333	1e-04	NA	Hypermethylated in FP vs FN
cg12550344	0.482	0.230	0.251	1e-04	NA	Hypermethylated in FP vs FN
cg08222702	0.804	0.526	0.278	1e-04	NA	Hypermethylated in FP vs FN
cg11767181	0.409	0.108	0.301	1e-04	NA	Hypermethylated in FP vs FN
cg14836602	0.747	0.425	0.322	1e-04	NA	Hypermethylated in FP vs FN
cg17414101	0.724	0.402	0.322	1e-04	NA	Hypermethylated in FP vs FN
cg16072192	0.755	0.457	0.298	2e-04	NA	Hypermethylated in FP vs FN
cg26426938	0.678	0.399	0.278	2e-04	NA	Hypermethylated in FP vs FN
cg25716814	0.758	0.411	0.347	2e-04	NA	Hypermethylated in FP vs FN
cg11142389	0.805	0.456	0.350	2e-04	ZIC4_ZIC1	Hypermethylated in FP vs FN
cg25450266	0.659	0.397	0.262	2e-04	NA	Hypermethylated in FP vs FN
cg08794940	0.552	0.263	0.289	2e-04	FLOT1	Hypermethylated in FP vs FN
cg26206894	0.719	0.458	0.261	2e-04	NA	Hypermethylated in FP vs FN
cg04468543	0.618	0.269	0.349	2e-04	NA	Hypermethylated in FP vs FN
cg16254756	0.540	0.290	0.251	2e-04	SHC1	Hypermethylated in FP vs FN
cg27311590	0.841	0.568	0.273	2e-04	NA	Hypermethylated in FP vs FN
cg19968403	0.435	0.181	0.254	2e-04	COL8A1	Hypermethylated in FP vs FN
cg00070899	0.684	0.376	0.307	2e-04	NA	Hypermethylated in FP vs FN
cg01928078	0.570	0.309	0.261	2e-04	IL10RB	Hypermethylated in FP vs FN
cg24083817	0.730	0.381	0.350	2e-04	NA	Hypermethylated in FP vs FN
cg22975160	0.395	0.108	0.287	2e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17620121	0.355	0.082	0.272	2e-04	C7orf20	Hypermethylated in FP vs FN
cg10962762	0.873	0.503	0.369	2e-04	NA	Hypermethylated in FP vs FN
cg23936410	0.515	0.235	0.280	2e-04	NA	Hypermethylated in FP vs FN
cg08060454	0.410	0.156	0.254	2e-04	NA	Hypermethylated in FP vs FN
cg15374754	0.773	0.517	0.255	2e-04	NA	Hypermethylated in FP vs FN
cg04172795	0.707	0.446	0.261	2e-04	NA	Hypermethylated in FP vs FN
cg06489606	0.628	0.353	0.275	2e-04	NA	Hypermethylated in FP vs FN
cg10203211	0.821	0.524	0.296	2e-04	NA	Hypermethylated in FP vs FN
cg03875156	0.529	0.213	0.317	2e-04	NA	Hypermethylated in FP vs FN
cg17152266	0.595	0.339	0.256	2e-04	NA	Hypermethylated in FP vs FN
cg03714522	0.505	0.215	0.291	2e-04	NA	Hypermethylated in FP vs FN
cg17291521	0.384	0.124	0.260	2e-04	NA	Hypermethylated in FP vs FN
cg08885800	0.622	0.279	0.343	2e-04	NA	Hypermethylated in FP vs FN
cg10724867	0.779	0.495	0.284	2e-04	NA	Hypermethylated in FP vs FN
cg03389926	0.452	0.187	0.265	2e-04	NA	Hypermethylated in FP vs FN
cg03893446	0.722	0.462	0.260	2e-04	NA	Hypermethylated in FP vs FN
cg10296718	0.706	0.423	0.284	2e-04	NA	Hypermethylated in FP vs FN
cg06620993	0.535	0.270	0.265	2e-04	NA	Hypermethylated in FP vs FN
cg18559249	0.687	0.369	0.318	2e-04	NA	Hypermethylated in FP vs FN
cg10765471	0.763	0.358	0.405	2e-04	NA	Hypermethylated in FP vs FN
cg27452922	0.741	0.441	0.300	2e-04	NA	Hypermethylated in FP vs FN
cg10741308	0.641	0.382	0.260	2e-04	NA	Hypermethylated in FP vs FN
cg24139639	0.791	0.520	0.271	2e-04	NA	Hypermethylated in FP vs FN
cg22982093	0.621	0.327	0.293	2e-04	NA	Hypermethylated in FP vs FN
cg09335713	0.738	0.454	0.284	2e-04	NFAM1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25894160	0.670	0.415	0.255	2e-04	C20orf3	Hypermethylated in FP vs FN
cg09486406	0.459	0.162	0.297	2e-04	NA	Hypermethylated in FP vs FN
cg24254387	0.608	0.339	0.268	2e-04	BTBD19_TCTEX1D4	Hypermethylated in FP vs FN
cg06596654	0.662	0.327	0.336	2e-04	NA	Hypermethylated in FP vs FN
cg05583608	0.519	0.179	0.341	2e-04	NA	Hypermethylated in FP vs FN
cg21177821	0.650	0.306	0.343	2e-04	NA	Hypermethylated in FP vs FN
cg10855825	0.696	0.432	0.264	2e-04	NA	Hypermethylated in FP vs FN
cg06521544	0.686	0.427	0.258	2e-04	ARHGEF3	Hypermethylated in FP vs FN
cg25015791	0.710	0.434	0.276	2e-04	NA	Hypermethylated in FP vs FN
cg13564061	0.504	0.250	0.253	2e-04	NA	Hypermethylated in FP vs FN
cg00539347	0.440	0.167	0.272	2e-04	NA	Hypermethylated in FP vs FN
cg06368590	0.488	0.136	0.351	2e-04	NA	Hypermethylated in FP vs FN
cg09643136	0.841	0.513	0.329	2e-04	NA	Hypermethylated in FP vs FN
cg20640373	0.452	0.161	0.291	2e-04	NA	Hypermethylated in FP vs FN
cg25926515	0.574	0.300	0.274	2e-04	NA	Hypermethylated in FP vs FN
cg25620901	0.592	0.277	0.315	2e-04	NA	Hypermethylated in FP vs FN
cg08467103	0.689	0.347	0.342	2e-04	SPRED2	Hypermethylated in FP vs FN
cg05291508	0.435	0.163	0.272	2e-04	NA	Hypermethylated in FP vs FN
cg07807210	0.848	0.494	0.354	2e-04	NA	Hypermethylated in FP vs FN
cg10807894	0.556	0.305	0.251	2e-04	NA	Hypermethylated in FP vs FN
cg13554818	0.579	0.289	0.290	2e-04	NA	Hypermethylated in FP vs FN
cg25062778	0.742	0.447	0.294	2e-04	NA	Hypermethylated in FP vs FN
cg22955449	0.381	0.118	0.263	2e-04	GSTO2	Hypermethylated in FP vs FN
cg15617155	0.737	0.386	0.351	2e-04	NA	Hypermethylated in FP vs FN
cg01566127	0.625	0.296	0.329	2e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16155382	0.616	0.352	0.264	2e-04	NA	Hypermethylated in FP vs FN
cg01426303	0.584	0.270	0.314	2e-04	NA	Hypermethylated in FP vs FN
cg14223293	0.670	0.314	0.355	2e-04	NA	Hypermethylated in FP vs FN
cg06100756	0.744	0.454	0.290	2e-04	NA	Hypermethylated in FP vs FN
cg11844856	0.633	0.382	0.250	2e-04	NA	Hypermethylated in FP vs FN
cg06377716	0.680	0.380	0.300	2e-04	NA	Hypermethylated in FP vs FN
cg08645670	0.786	0.430	0.356	2e-04	FOXL1	Hypermethylated in FP vs FN
cg13015925	0.727	0.368	0.359	2e-04	ZIC4	Hypermethylated in FP vs FN
cg06511330	0.558	0.277	0.281	2e-04	NA	Hypermethylated in FP vs FN
cg13555354	0.543	0.243	0.301	2e-04	DHRS4L2	Hypermethylated in FP vs FN
cg16503628	0.756	0.438	0.318	2e-04	NA	Hypermethylated in FP vs FN
cg17025555	0.689	0.384	0.306	2e-04	OR6K6	Hypermethylated in FP vs FN
cg02415057	0.449	0.157	0.291	2e-04	GLIPR1L2	Hypermethylated in FP vs FN
cg19757631	0.702	0.432	0.270	2e-04	NA	Hypermethylated in FP vs FN
cg04899175	0.712	0.360	0.352	2e-04	NA	Hypermethylated in FP vs FN
cg08241360	0.780	0.484	0.296	2e-04	NA	Hypermethylated in FP vs FN
cg18330338	0.749	0.481	0.268	2e-04	NA	Hypermethylated in FP vs FN
cg13272412	0.727	0.453	0.274	2e-04	NRG1	Hypermethylated in FP vs FN
cg16612423	0.827	0.492	0.335	2e-04	NA	Hypermethylated in FP vs FN
cg06217072	0.802	0.515	0.287	2e-04	NA	Hypermethylated in FP vs FN
cg26140293	0.875	0.616	0.259	2e-04	NA	Hypermethylated in FP vs FN
cg09933329	0.824	0.546	0.277	2e-04	NA	Hypermethylated in FP vs FN
cg00003625	0.509	0.242	0.267	2e-04	WFIKKN2	Hypermethylated in FP vs FN
cg22667835	0.700	0.428	0.272	2e-04	NA	Hypermethylated in FP vs FN
cg07333231	0.880	0.587	0.293	2e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13278496	0.753	0.400	0.353	2e-04	ZIC4	Hypermethylated in FP vs FN
cg26097051	0.655	0.356	0.299	2e-04	NA	Hypermethylated in FP vs FN
cg09841001	0.617	0.341	0.276	2e-04	NA	Hypermethylated in FP vs FN
cg12315284	0.713	0.447	0.266	2e-04	NA	Hypermethylated in FP vs FN
cg10520543	0.683	0.392	0.290	2e-04	TMEM132B	Hypermethylated in FP vs FN
cg00662782	0.479	0.197	0.282	2e-04	NA	Hypermethylated in FP vs FN
cg01301885	0.714	0.463	0.251	2e-04	NA	Hypermethylated in FP vs FN
cg23063243	0.520	0.200	0.319	2e-04	NA	Hypermethylated in FP vs FN
cg12179658	0.760	0.508	0.252	2e-04	HRH1	Hypermethylated in FP vs FN
cg27390009	0.755	0.500	0.255	2e-04	NA	Hypermethylated in FP vs FN
cg01186595	0.664	0.405	0.259	2e-04	NA	Hypermethylated in FP vs FN
cg02140579	0.767	0.473	0.293	2e-04	NA	Hypermethylated in FP vs FN
cg01962676	0.427	0.126	0.301	2e-04	NA	Hypermethylated in FP vs FN
cg21844956	0.704	0.390	0.313	2e-04	NA	Hypermethylated in FP vs FN
cg10690919	0.522	0.211	0.311	2e-04	WFIKKN2	Hypermethylated in FP vs FN
cg04041976	0.551	0.276	0.275	2e-04	NA	Hypermethylated in FP vs FN
cg27072218	0.852	0.598	0.254	2e-04	NA	Hypermethylated in FP vs FN
cg17618327	0.498	0.161	0.337	2e-04	NA	Hypermethylated in FP vs FN
cg18717146	0.556	0.301	0.255	2e-04	NA	Hypermethylated in FP vs FN
cg03390723	0.453	0.189	0.263	2e-04	GSTO2	Hypermethylated in FP vs FN
cg00436496	0.781	0.505	0.275	2e-04	NA	Hypermethylated in FP vs FN
cg04516022	0.647	0.354	0.293	2e-04	NA	Hypermethylated in FP vs FN
cg04988978	0.618	0.341	0.277	2e-04	MPO	Hypermethylated in FP vs FN
cg04995300	0.781	0.506	0.275	2e-04	NA	Hypermethylated in FP vs FN
cg07216194	0.576	0.313	0.263	2e-04	PTK2B	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24741066	0.558	0.268	0.290	2e-04	NA	Hypermethylated in FP vs FN
cg05210501	0.569	0.261	0.308	2e-04	HOXA10	Hypermethylated in FP vs FN
cg02646021	0.751	0.392	0.359	2e-04	NA	Hypermethylated in FP vs FN
cg06835156	0.694	0.377	0.317	2e-04	NA	Hypermethylated in FP vs FN
cg06369327	0.693	0.390	0.303	2e-04	ZIC4	Hypermethylated in FP vs FN
cg09510752	0.755	0.485	0.270	2e-04	NA	Hypermethylated in FP vs FN
cg16565696	0.641	0.367	0.274	2e-04	NA	Hypermethylated in FP vs FN
cg21453840	0.825	0.528	0.297	2e-04	NA	Hypermethylated in FP vs FN
cg18343474	0.694	0.374	0.320	2e-04	NA	Hypermethylated in FP vs FN
cg14157435	0.809	0.480	0.329	2e-04	NA	Hypermethylated in FP vs FN
cg14637919	0.576	0.298	0.278	2e-04	NA	Hypermethylated in FP vs FN
cg06143901	0.733	0.474	0.259	2e-04	TCF15	Hypermethylated in FP vs FN
cg09476997	0.868	0.592	0.276	2e-04	NA	Hypermethylated in FP vs FN
cg14865868	0.603	0.303	0.301	2e-04	TRIB2	Hypermethylated in FP vs FN
cg18557556	0.495	0.231	0.264	2e-04	KRR1	Hypermethylated in FP vs FN
cg21004104	0.769	0.510	0.258	2e-04	NA	Hypermethylated in FP vs FN
cg01860063	0.640	0.351	0.288	2e-04	NA	Hypermethylated in FP vs FN
cg17928147	0.739	0.390	0.349	2e-04	NA	Hypermethylated in FP vs FN
cg08738300	0.562	0.302	0.260	2e-04	NA	Hypermethylated in FP vs FN
cg09149672	0.781	0.512	0.269	2e-04	NA	Hypermethylated in FP vs FN
cg16195091	0.616	0.292	0.324	2e-04	NA	Hypermethylated in FP vs FN
cg24700485	0.466	0.151	0.315	2e-04	NA	Hypermethylated in FP vs FN
cg13682095	0.430	0.103	0.326	2e-04	NA	Hypermethylated in FP vs FN
cg06059056	0.385	0.092	0.293	2e-04	IQSEC1	Hypermethylated in FP vs FN
cg04937144	0.568	0.292	0.276	2e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19876302	0.741	0.478	0.263	2e-04	NA	Hypermethylated in FP vs FN
cg16644967	0.682	0.427	0.255	2e-04	NA	Hypermethylated in FP vs FN
cg19697558	0.631	0.324	0.307	2e-04	NA	Hypermethylated in FP vs FN
cg01175550	0.731	0.471	0.260	2e-04	NA	Hypermethylated in FP vs FN
cg18185958	0.708	0.355	0.353	2e-04	NA	Hypermethylated in FP vs FN
cg15264020	0.717	0.435	0.282	2e-04	NA	Hypermethylated in FP vs FN
cg03592051	0.636	0.383	0.253	2e-04	GSG1L	Hypermethylated in FP vs FN
cg00982919	0.725	0.394	0.330	2e-04	NA	Hypermethylated in FP vs FN
cg03018679	0.787	0.511	0.276	2e-04	NA	Hypermethylated in FP vs FN
cg10161111	0.629	0.339	0.289	2e-04	NA	Hypermethylated in FP vs FN
cg12378867	0.785	0.530	0.255	2e-04	NA	Hypermethylated in FP vs FN
cg08070028	0.416	0.145	0.270	2e-04	USP2	Hypermethylated in FP vs FN
cg02297063	0.767	0.391	0.375	2e-04	SBNO2	Hypermethylated in FP vs FN
cg12093371	0.387	0.101	0.287	2e-04	NA	Hypermethylated in FP vs FN
cg02100410	0.722	0.455	0.267	2e-04	LBX2	Hypermethylated in FP vs FN
cg08645907	0.622	0.366	0.256	2e-04	ATXN7L1	Hypermethylated in FP vs FN
cg06890415	0.573	0.299	0.274	2e-04	C8orf46	Hypermethylated in FP vs FN
cg08867241	0.588	0.282	0.306	2e-04	NA	Hypermethylated in FP vs FN
cg06633061	0.701	0.415	0.286	2e-04	NA	Hypermethylated in FP vs FN
cg16648571	0.616	0.343	0.273	2e-04	NNAT	Hypermethylated in FP vs FN
cg26956135	0.795	0.534	0.261	2e-04	C17orf47	Hypermethylated in FP vs FN
cg25417842	0.619	0.319	0.300	2e-04	NA	Hypermethylated in FP vs FN
cg14292619	0.696	0.436	0.260	2e-04	GLIPR1L2	Hypermethylated in FP vs FN
cg14778235	0.699	0.369	0.330	2e-04	NA	Hypermethylated in FP vs FN
cg23628478	0.632	0.377	0.255	2e-04	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04513549	0.426	0.159	0.268	2e-04	NA	Hypermethylated in FP vs FN
cg25153741	0.703	0.395	0.307	2e-04	NA	Hypermethylated in FP vs FN
cg22765853	0.440	0.136	0.304	2e-04	NA	Hypermethylated in FP vs FN
cg27114640	0.530	0.204	0.327	2e-04	NA	Hypermethylated in FP vs FN
cg20771240	0.687	0.325	0.361	2e-04	NA	Hypermethylated in FP vs FN
cg18760837	0.612	0.350	0.262	2e-04	NA	Hypermethylated in FP vs FN
cg25675800	0.810	0.544	0.267	3e-04	NA	Hypermethylated in FP vs FN
cg19999567	0.531	0.255	0.276	3e-04	NA	Hypermethylated in FP vs FN
cg05906144	0.661	0.350	0.310	3e-04	NA	Hypermethylated in FP vs FN
cg22522598	0.591	0.308	0.282	3e-04	NA	Hypermethylated in FP vs FN
cg24673101	0.497	0.247	0.251	3e-04	CCDC85C	Hypermethylated in FP vs FN
cg26681770	0.801	0.448	0.353	3e-04	NA	Hypermethylated in FP vs FN
cg05991009	0.860	0.606	0.254	3e-04	NA	Hypermethylated in FP vs FN
cg09294347	0.702	0.420	0.282	3e-04	NA	Hypermethylated in FP vs FN
cg15316789	0.388	0.138	0.250	3e-04	RBMS3	Hypermethylated in FP vs FN
cg09867883	0.619	0.356	0.263	3e-04	NA	Hypermethylated in FP vs FN
cg14365785	0.551	0.288	0.263	3e-04	NA	Hypermethylated in FP vs FN
cg07634645	0.632	0.319	0.313	3e-04	PLBD1	Hypermethylated in FP vs FN
cg10673740	0.550	0.293	0.258	3e-04	NA	Hypermethylated in FP vs FN
cg18433380	0.851	0.557	0.295	3e-04	NNAT	Hypermethylated in FP vs FN
cg10617784	0.615	0.312	0.304	3e-04	NA	Hypermethylated in FP vs FN
cg05786140	0.693	0.425	0.268	3e-04	NA	Hypermethylated in FP vs FN
cg02915939	0.486	0.198	0.288	3e-04	FLOT1	Hypermethylated in FP vs FN
cg25150021	0.774	0.484	0.290	3e-04	NA	Hypermethylated in FP vs FN
cg15110353	0.592	0.290	0.303	3e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12409982	0.689	0.380	0.309	3e-04	NA	Hypermethylated in FP vs FN
cg20664636	0.820	0.544	0.276	3e-04	HIC1	Hypermethylated in FP vs FN
cg00110609	0.743	0.433	0.310	3e-04	NA	Hypermethylated in FP vs FN
cg17337668	0.649	0.392	0.257	3e-04	NA	Hypermethylated in FP vs FN
cg22895231	0.636	0.370	0.266	3e-04	BCAM	Hypermethylated in FP vs FN
cg23705155	0.647	0.395	0.252	3e-04	NA	Hypermethylated in FP vs FN
cg25963505	0.624	0.346	0.278	3e-04	SLC13A4	Hypermethylated in FP vs FN
cg14433074	0.683	0.365	0.318	3e-04	FLOT1	Hypermethylated in FP vs FN
cg19856606	0.773	0.518	0.255	3e-04	NA	Hypermethylated in FP vs FN
cg12247222	0.746	0.375	0.371	3e-04	NA	Hypermethylated in FP vs FN
cg00953480	0.528	0.258	0.270	3e-04	PAX5	Hypermethylated in FP vs FN
cg27072012	0.415	0.113	0.303	3e-04	NA	Hypermethylated in FP vs FN
cg00706697	0.530	0.249	0.281	3e-04	NA	Hypermethylated in FP vs FN
cg03901910	0.754	0.460	0.293	3e-04	NA	Hypermethylated in FP vs FN
cg18845797	0.656	0.379	0.277	3e-04	NA	Hypermethylated in FP vs FN
cg07688836	0.642	0.382	0.260	3e-04	NA	Hypermethylated in FP vs FN
cg02677286	0.916	0.639	0.276	3e-04	NA	Hypermethylated in FP vs FN
cg23865597	0.726	0.454	0.271	3e-04	DYM	Hypermethylated in FP vs FN
cg12716639	0.861	0.547	0.315	3e-04	NA	Hypermethylated in FP vs FN
cg00143249	0.550	0.295	0.255	3e-04	NA	Hypermethylated in FP vs FN
cg15524063	0.607	0.251	0.357	3e-04	NA	Hypermethylated in FP vs FN
cg20039257	0.578	0.308	0.271	3e-04	NA	Hypermethylated in FP vs FN
cg07323648	0.713	0.393	0.320	3e-04	NA	Hypermethylated in FP vs FN
cg24600895	0.448	0.185	0.264	3e-04	NA	Hypermethylated in FP vs FN
cg00400532	0.585	0.300	0.285	3e-04	NA	Hypermethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06821079	0.722	0.445	0.277	3e-04	KRT40	Hypermethylated in FP vs FN
cg15692239	0.421	0.151	0.271	3e-04	ALDOC	Hypermethylated in FP vs FN
cg15923025	0.330	0.069	0.261	3e-04	EIF4EBP3	Hypermethylated in FP vs FN
cg15627089	0.639	0.294	0.345	3e-04	NA	Hypermethylated in FP vs FN
cg16203594	0.659	0.385	0.275	3e-04	NA	Hypermethylated in FP vs FN
cg11401957	0.748	0.494	0.254	3e-04	NA	Hypermethylated in FP vs FN
cg08556541	0.751	0.481	0.270	3e-04	NA	Hypermethylated in FP vs FN
cg22891413	0.838	0.584	0.254	3e-04	NA	Hypermethylated in FP vs FN
cg13332774	0.365	0.114	0.251	3e-04	GSTO2	Hypermethylated in FP vs FN
cg26143540	0.716	0.426	0.290	3e-04	NA	Hypermethylated in FP vs FN
cg15121267	0.770	0.486	0.284	3e-04	NA	Hypermethylated in FP vs FN
cg15032314	0.511	0.180	0.332	3e-04	NA	Hypermethylated in FP vs FN
cg03507326	0.727	0.381	0.346	3e-04	SRRM2	Hypermethylated in FP vs FN
cg17881200	0.732	0.399	0.334	3e-04	NA	Hypermethylated in FP vs FN
cg04621944	0.780	0.522	0.258	3e-04	NA	Hypermethylated in FP vs FN
cg23910430	0.830	0.553	0.277	3e-04	NA	Hypermethylated in FP vs FN
cg07168556	0.501	0.250	0.251	3e-04	WFIKKN2	Hypermethylated in FP vs FN
cg16717099	0.430	0.169	0.260	3e-04	FLOT1	Hypermethylated in FP vs FN
cg12548824	0.640	0.367	0.272	3e-04	MTUS1	Hypermethylated in FP vs FN
cg01096381	0.756	0.493	0.263	3e-04	NA	Hypermethylated in FP vs FN
cg22365906	0.730	0.469	0.261	3e-04	ANKS1B	Hypermethylated in FP vs FN
cg22349489	0.546	0.239	0.307	3e-04	HIST1H2BK_HIST1H2AH	Hypermethylated in FP vs FN
cg23375968	0.627	0.368	0.258	3e-04	NA	Hypermethylated in FP vs FN
cg07058109	0.675	0.379	0.296	3e-04	DHX58	Hypermethylated in FP vs FN
cg03291607	0.769	0.519	0.250	3e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01411823	0.610	0.339	0.271	3e-04	C13orf33	Hypermethylated in FP vs FN
cg08547691	0.400	0.134	0.266	3e-04	NA	Hypermethylated in FP vs FN
cg25859099	0.683	0.372	0.312	3e-04	NA	Hypermethylated in FP vs FN
cg01181415	0.696	0.400	0.296	3e-04	NA	Hypermethylated in FP vs FN
cg25455598	0.323	0.067	0.256	3e-04	PGAP2	Hypermethylated in FP vs FN
cg12279294	0.545	0.263	0.283	3e-04	NA	Hypermethylated in FP vs FN
cg15054077	0.492	0.233	0.259	3e-04	NA	Hypermethylated in FP vs FN
cg25363289	0.606	0.337	0.269	3e-04	NA	Hypermethylated in FP vs FN
cg00807586	0.646	0.306	0.340	3e-04	DLEC1	Hypermethylated in FP vs FN
cg00422488	0.743	0.435	0.307	3e-04	NA	Hypermethylated in FP vs FN
cg12221580	0.715	0.462	0.253	3e-04	NA	Hypermethylated in FP vs FN
cg18338984	0.665	0.380	0.285	3e-04	NA	Hypermethylated in FP vs FN
cg24796842	0.508	0.206	0.302	3e-04	NA	Hypermethylated in FP vs FN
cg13066016	0.722	0.428	0.294	3e-04	NA	Hypermethylated in FP vs FN
cg17768691	0.630	0.329	0.301	3e-04	PLBD1	Hypermethylated in FP vs FN
cg12709372	0.796	0.521	0.275	3e-04	NA	Hypermethylated in FP vs FN
cg25090972	0.418	0.153	0.265	3e-04	NA	Hypermethylated in FP vs FN
cg10754935	0.556	0.304	0.252	3e-04	NA	Hypermethylated in FP vs FN
cg03339668	0.838	0.504	0.334	3e-04	NA	Hypermethylated in FP vs FN
cg02322373	0.530	0.248	0.283	4e-04	NA	Hypermethylated in FP vs FN
cg19907796	0.652	0.335	0.317	4e-04	NA	Hypermethylated in FP vs FN
cg05406635	0.474	0.215	0.258	4e-04	CCDC85C	Hypermethylated in FP vs FN
cg04906575	0.843	0.566	0.277	4e-04	NA	Hypermethylated in FP vs FN
cg20889395	0.539	0.265	0.274	4e-04	WFIKKN2	Hypermethylated in FP vs FN
cg02897537	0.647	0.325	0.321	4e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01427630	0.724	0.467	0.257	4e-04	NA	Hypermethylated in FP vs FN
cg20801007	0.410	0.114	0.295	4e-04	NA	Hypermethylated in FP vs FN
cg26538691	0.709	0.431	0.278	4e-04	NA	Hypermethylated in FP vs FN
cg03675258	0.747	0.458	0.288	4e-04	NA	Hypermethylated in FP vs FN
cg22236066	0.515	0.246	0.270	4e-04	NA	Hypermethylated in FP vs FN
cg04886934	0.821	0.566	0.254	4e-04	NA	Hypermethylated in FP vs FN
cg27430293	0.720	0.429	0.290	4e-04	NA	Hypermethylated in FP vs FN
cg15174117	0.659	0.385	0.274	4e-04	NA	Hypermethylated in FP vs FN
cg24800655	0.601	0.258	0.343	4e-04	FBRSL1	Hypermethylated in FP vs FN
cg22083335	0.700	0.440	0.260	4e-04	NA	Hypermethylated in FP vs FN
cg24891133	0.628	0.301	0.327	4e-04	C13orf33	Hypermethylated in FP vs FN
cg06000878	0.682	0.407	0.274	4e-04	NA	Hypermethylated in FP vs FN
cg09233395	0.619	0.344	0.275	4e-04	NA	Hypermethylated in FP vs FN
cg17563034	0.548	0.249	0.299	4e-04	CYTL1	Hypermethylated in FP vs FN
cg17603689	0.655	0.348	0.307	4e-04	NA	Hypermethylated in FP vs FN
cg27639620	0.428	0.155	0.274	4e-04	NA	Hypermethylated in FP vs FN
cg14707006	0.616	0.328	0.288	4e-04	NA	Hypermethylated in FP vs FN
cg14840351	0.484	0.218	0.266	4e-04	NA	Hypermethylated in FP vs FN
cg02283366	0.635	0.308	0.327	4e-04	NA	Hypermethylated in FP vs FN
cg16691593	0.570	0.257	0.312	4e-04	OTP	Hypermethylated in FP vs FN
cg08655148	0.814	0.535	0.278	4e-04	NA	Hypermethylated in FP vs FN
cg19595750	0.672	0.297	0.375	4e-04	FBRSL1	Hypermethylated in FP vs FN
cg03344332	0.694	0.399	0.295	4e-04	NA	Hypermethylated in FP vs FN
cg06470279	0.526	0.262	0.264	4e-04	NA	Hypermethylated in FP vs FN
cg20995089	0.765	0.512	0.254	4e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07480647	0.820	0.465	0.355	4e-04	NA	Hypermethylated in FP vs FN
cg14079333	0.523	0.252	0.271	4e-04	NA	Hypermethylated in FP vs FN
cg20066782	0.738	0.470	0.268	4e-04	NA	Hypermethylated in FP vs FN
cg01964852	0.510	0.238	0.272	4e-04	NA	Hypermethylated in FP vs FN
cg05054998	0.751	0.480	0.270	4e-04	NA	Hypermethylated in FP vs FN
cg16007541	0.568	0.316	0.252	4e-04	NA	Hypermethylated in FP vs FN
cg14133850	0.765	0.504	0.260	4e-04	NA	Hypermethylated in FP vs FN
cg21127068	0.704	0.378	0.326	4e-04	ZIC4	Hypermethylated in FP vs FN
cg00668890	0.573	0.294	0.280	4e-04	NA	Hypermethylated in FP vs FN
cg02961707	0.764	0.394	0.369	4e-04	NA	Hypermethylated in FP vs FN
cg22764436	0.626	0.331	0.295	4e-04	NA	Hypermethylated in FP vs FN
cg21537187	0.712	0.438	0.274	4e-04	MTPN_LUZP6	Hypermethylated in FP vs FN
cg05650846	0.559	0.296	0.263	4e-04	NA	Hypermethylated in FP vs FN
cg26271283	0.705	0.449	0.257	4e-04	NA	Hypermethylated in FP vs FN
cg09200260	0.768	0.486	0.283	4e-04	NA	Hypermethylated in FP vs FN
cg07795964	0.836	0.543	0.293	4e-04	NA	Hypermethylated in FP vs FN
cg22727641	0.576	0.260	0.317	4e-04	FBXO43	Hypermethylated in FP vs FN
cg15292765	0.486	0.191	0.295	4e-04	NA	Hypermethylated in FP vs FN
cg15181905	0.801	0.528	0.273	4e-04	NA	Hypermethylated in FP vs FN
cg01109169	0.592	0.274	0.319	4e-04	NA	Hypermethylated in FP vs FN
cg23736307	0.624	0.347	0.277	4e-04	PTK2B	Hypermethylated in FP vs FN
cg22376688	0.549	0.229	0.321	4e-04	NA	Hypermethylated in FP vs FN
cg24006126	0.734	0.407	0.327	4e-04	NA	Hypermethylated in FP vs FN
cg00576435	0.818	0.536	0.283	4e-04	NNAT	Hypermethylated in FP vs FN
cg06772717	0.664	0.357	0.307	4e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13916255	0.810	0.546	0.264	4e-04	CALCR	Hypermethylated in FP vs FN
cg26175448	0.560	0.291	0.269	4e-04	NA	Hypermethylated in FP vs FN
cg27651090	0.825	0.556	0.268	4e-04	NA	Hypermethylated in FP vs FN
cg18065680	0.451	0.177	0.274	4e-04	NA	Hypermethylated in FP vs FN
cg27286993	0.432	0.141	0.291	4e-04	NA	Hypermethylated in FP vs FN
cg16851482	0.574	0.318	0.256	4e-04	NA	Hypermethylated in FP vs FN
cg02067983	0.434	0.170	0.264	4e-04	WNT1	Hypermethylated in FP vs FN
cg24753662	0.744	0.366	0.379	4e-04	NA	Hypermethylated in FP vs FN
cg02896835	0.782	0.475	0.308	4e-04	NA	Hypermethylated in FP vs FN
cg01572940	0.714	0.403	0.311	4e-04	NA	Hypermethylated in FP vs FN
cg08371391	0.563	0.281	0.282	4e-04	NA	Hypermethylated in FP vs FN
cg24550112	0.721	0.450	0.271	5e-04	NA	Hypermethylated in FP vs FN
cg25241559	0.623	0.315	0.308	5e-04	NA	Hypermethylated in FP vs FN
cg22061523	0.500	0.242	0.257	5e-04	TK1	Hypermethylated in FP vs FN
cg14606256	0.664	0.406	0.258	5e-04	NA	Hypermethylated in FP vs FN
cg12363903	0.794	0.510	0.284	5e-04	NA	Hypermethylated in FP vs FN
cg12954755	0.702	0.421	0.280	5e-04	NA	Hypermethylated in FP vs FN
cg07534823	0.640	0.387	0.252	5e-04	NA	Hypermethylated in FP vs FN
cg11459266	0.670	0.371	0.299	5e-04	NA	Hypermethylated in FP vs FN
cg03924566	0.629	0.337	0.292	5e-04	BAI1	Hypermethylated in FP vs FN
cg11449860	0.555	0.296	0.260	5e-04	NA	Hypermethylated in FP vs FN
cg01829817	0.793	0.532	0.261	5e-04	NA	Hypermethylated in FP vs FN
cg13037201	0.614	0.292	0.322	5e-04	NA	Hypermethylated in FP vs FN
cg07176589	0.628	0.373	0.256	5e-04	LOC100192378	Hypermethylated in FP vs FN
cg27448433	0.797	0.530	0.267	5e-04	CREB5	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21272279	0.534	0.243	0.291	5e-04	NA	Hypermethylated in FP vs FN
cg05854694	0.518	0.233	0.286	5e-04	NA	Hypermethylated in FP vs FN
cg13966557	0.537	0.267	0.270	5e-04	NA	Hypermethylated in FP vs FN
cg07688604	0.624	0.285	0.338	5e-04	FBRSL1	Hypermethylated in FP vs FN
cg00515954	0.803	0.540	0.263	5e-04	ANKS1B	Hypermethylated in FP vs FN
cg17995197	0.486	0.225	0.261	5e-04	NA	Hypermethylated in FP vs FN
cg05516295	0.758	0.492	0.266	5e-04	NA	Hypermethylated in FP vs FN
cg00597687	0.802	0.549	0.253	5e-04	NA	Hypermethylated in FP vs FN
cg05972792	0.795	0.524	0.271	5e-04	NA	Hypermethylated in FP vs FN
cg13809441	0.732	0.440	0.292	5e-04	NA	Hypermethylated in FP vs FN
cg15973314	0.763	0.507	0.256	5e-04	NA	Hypermethylated in FP vs FN
cg05726195	0.687	0.428	0.258	5e-04	NA	Hypermethylated in FP vs FN
cg15312943	0.671	0.420	0.252	5e-04	NA	Hypermethylated in FP vs FN
cg13341668	0.766	0.491	0.275	5e-04	HYAL2	Hypermethylated in FP vs FN
cg05895665	0.685	0.429	0.256	5e-04	NA	Hypermethylated in FP vs FN
cg12913879	0.637	0.359	0.278	5e-04	NA	Hypermethylated in FP vs FN
cg00864474	0.443	0.175	0.268	5e-04	NA	Hypermethylated in FP vs FN
cg20653144	0.681	0.425	0.257	5e-04	NA	Hypermethylated in FP vs FN
cg09084391	0.648	0.395	0.253	5e-04	NA	Hypermethylated in FP vs FN
cg06114334	0.740	0.485	0.255	5e-04	NA	Hypermethylated in FP vs FN
cg26129110	0.771	0.452	0.319	5e-04	NA	Hypermethylated in FP vs FN
cg17646820	0.803	0.505	0.298	5e-04	NA	Hypermethylated in FP vs FN
cg19917565	0.645	0.367	0.279	5e-04	NA	Hypermethylated in FP vs FN
cg23243400	0.752	0.474	0.277	5e-04	NA	Hypermethylated in FP vs FN
cg06784545	0.598	0.327	0.271	5e-04	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24847636	0.715	0.408	0.307	5e-04	NA	Hypermethylated in FP vs FN
cg08878567	0.634	0.371	0.263	5e-04	NA	Hypermethylated in FP vs FN
cg06452769	0.720	0.408	0.312	5e-04	PLEC1	Hypermethylated in FP vs FN
cg02767177	0.551	0.277	0.274	5e-04	NA	Hypermethylated in FP vs FN
cg03736795	0.769	0.494	0.275	5e-04	NA	Hypermethylated in FP vs FN
cg09506081	0.682	0.360	0.322	5e-04	NA	Hypermethylated in FP vs FN
cg08006625	0.498	0.224	0.273	5e-04	NA	Hypermethylated in FP vs FN
cg16506378	0.743	0.476	0.267	5e-04	NA	Hypermethylated in FP vs FN
cg03221054	0.794	0.537	0.258	5e-04	MIR653_MIR489	Hypermethylated in FP vs FN
cg17183432	0.552	0.211	0.341	5e-04	NA	Hypermethylated in FP vs FN
cg07124173	0.356	0.086	0.270	5e-04	EIF4EBP3	Hypermethylated in FP vs FN
cg11201447	0.575	0.289	0.286	5e-04	MIR1204	Hypermethylated in FP vs FN
cg00107772	0.769	0.446	0.323	5e-04	NA	Hypermethylated in FP vs FN
cg06585708	0.568	0.248	0.320	5e-04	NA	Hypermethylated in FP vs FN
cg12351126	0.400	0.144	0.256	5e-04	GLIPR1L2	Hypermethylated in FP vs FN
cg22125805	0.516	0.208	0.307	5e-04	NA	Hypermethylated in FP vs FN
cg26504021	0.670	0.397	0.273	5e-04	IRX2	Hypermethylated in FP vs FN
cg27139956	0.708	0.454	0.255	5e-04	NA	Hypermethylated in FP vs FN
cg14844118	0.746	0.493	0.254	5e-04	NA	Hypermethylated in FP vs FN
cg01561304	0.573	0.309	0.264	5e-04	NA	Hypermethylated in FP vs FN
cg25694349	0.680	0.309	0.371	6e-04	FBRSL1	Hypermethylated in FP vs FN
cg16717713	0.487	0.216	0.271	6e-04	CCDC85C	Hypermethylated in FP vs FN
cg13204568	0.606	0.315	0.290	6e-04	DHRS3	Hypermethylated in FP vs FN
cg10368049	0.527	0.270	0.257	6e-04	COL1A2	Hypermethylated in FP vs FN
cg22459755	0.371	0.119	0.252	6e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00351324	0.367	0.114	0.253	6e-04	GSTO2	Hypermethylated in FP vs FN
cg10858480	0.515	0.254	0.261	6e-04	NA	Hypermethylated in FP vs FN
cg15552158	0.704	0.424	0.280	6e-04	NA	Hypermethylated in FP vs FN
cg10304922	0.670	0.336	0.334	6e-04	FBRSL1	Hypermethylated in FP vs FN
cg02099572	0.660	0.363	0.297	6e-04	NA	Hypermethylated in FP vs FN
cg09863247	0.569	0.273	0.296	6e-04	NA	Hypermethylated in FP vs FN
cg27298940	0.719	0.459	0.260	6e-04	NA	Hypermethylated in FP vs FN
cg22704068	0.463	0.197	0.266	6e-04	LOC388588	Hypermethylated in FP vs FN
cg02185248	0.708	0.449	0.259	6e-04	NA	Hypermethylated in FP vs FN
cg11905611	0.648	0.338	0.309	6e-04	PLBD1	Hypermethylated in FP vs FN
cg14695492	0.669	0.400	0.269	6e-04	BAI1	Hypermethylated in FP vs FN
cg08886020	0.724	0.466	0.258	6e-04	NA	Hypermethylated in FP vs FN
cg04440717	0.844	0.544	0.300	6e-04	NA	Hypermethylated in FP vs FN
cg02116953	0.828	0.518	0.310	6e-04	NA	Hypermethylated in FP vs FN
cg02772995	0.648	0.385	0.263	6e-04	NA	Hypermethylated in FP vs FN
cg22610655	0.812	0.532	0.280	6e-04	NA	Hypermethylated in FP vs FN
cg08466792	0.692	0.294	0.398	6e-04	NA	Hypermethylated in FP vs FN
cg13709211	0.688	0.402	0.286	6e-04	NA	Hypermethylated in FP vs FN
cg02086801	0.748	0.497	0.252	6e-04	NA	Hypermethylated in FP vs FN
cg17871403	0.790	0.538	0.252	6e-04	NA	Hypermethylated in FP vs FN
cg05253110	0.659	0.393	0.266	6e-04	NA	Hypermethylated in FP vs FN
cg23932658	0.645	0.358	0.287	6e-04	NA	Hypermethylated in FP vs FN
cg03993109	0.667	0.403	0.264	6e-04	NA	Hypermethylated in FP vs FN
cg19786983	0.726	0.463	0.262	6e-04	NA	Hypermethylated in FP vs FN
cg10270430	0.679	0.425	0.254	7e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10392840	0.573	0.252	0.321	7e-04	ADAR	Hypermethylated in FP vs FN
cg00223136	0.819	0.566	0.253	7e-04	NA	Hypermethylated in FP vs FN
cg22078710	0.506	0.237	0.270	7e-04	NA	Hypermethylated in FP vs FN
cg04502985	0.714	0.411	0.303	7e-04	NA	Hypermethylated in FP vs FN
cg06430029	0.736	0.470	0.266	7e-04	NA	Hypermethylated in FP vs FN
cg10908116	0.744	0.473	0.271	7e-04	NA	Hypermethylated in FP vs FN
cg05516327	0.703	0.444	0.259	7e-04	NA	Hypermethylated in FP vs FN
cg14216068	0.638	0.311	0.327	7e-04	NA	Hypermethylated in FP vs FN
cg25385412	0.470	0.184	0.286	7e-04	NA	Hypermethylated in FP vs FN
cg21817179	0.721	0.464	0.257	7e-04	SOSTDC1	Hypermethylated in FP vs FN
cg03420866	0.748	0.485	0.262	7e-04	NA	Hypermethylated in FP vs FN
cg07919108	0.533	0.178	0.354	7e-04	NA	Hypermethylated in FP vs FN
cg01884681	0.711	0.433	0.278	7e-04	NA	Hypermethylated in FP vs FN
cg17650747	0.635	0.364	0.272	7e-04	NA	Hypermethylated in FP vs FN
cg19033654	0.564	0.286	0.278	7e-04	FLOT1	Hypermethylated in FP vs FN
cg13289884	0.602	0.340	0.262	7e-04	NA	Hypermethylated in FP vs FN
cg11841239	0.548	0.298	0.250	7e-04	NA	Hypermethylated in FP vs FN
cg09404376	0.663	0.395	0.269	7e-04	SGK1	Hypermethylated in FP vs FN
cg18108818	0.685	0.392	0.293	7e-04	NA	Hypermethylated in FP vs FN
cg04012931	0.612	0.326	0.286	7e-04	FLOT1	Hypermethylated in FP vs FN
cg19232382	0.728	0.471	0.257	7e-04	NA	Hypermethylated in FP vs FN
cg20910408	0.707	0.377	0.330	7e-04	NA	Hypermethylated in FP vs FN
cg01510990	0.660	0.402	0.258	7e-04	NA	Hypermethylated in FP vs FN
cg15859390	0.653	0.389	0.264	7e-04	NA	Hypermethylated in FP vs FN
cg10641714	0.624	0.360	0.264	7e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00934883	0.536	0.277	0.260	7e-04	NA	Hypermethylated in FP vs FN
cg19863655	0.759	0.407	0.353	7e-04	C13orf33	Hypermethylated in FP vs FN
cg10868277	0.716	0.418	0.298	7e-04	NA	Hypermethylated in FP vs FN
cg19978181	0.769	0.474	0.295	7e-04	NA	Hypermethylated in FP vs FN
cg25398924	0.731	0.446	0.285	7e-04	NA	Hypermethylated in FP vs FN
cg05981335	0.722	0.434	0.288	7e-04	NA	Hypermethylated in FP vs FN
cg12898868	0.713	0.457	0.256	7e-04	IQCF5	Hypermethylated in FP vs FN
cg16644023	0.725	0.465	0.260	7e-04	HOXA3	Hypermethylated in FP vs FN
cg04724735	0.511	0.216	0.295	7e-04	NA	Hypermethylated in FP vs FN
cg03131729	0.613	0.359	0.254	8e-04	NA	Hypermethylated in FP vs FN
cg23511824	0.660	0.401	0.259	8e-04	NA	Hypermethylated in FP vs FN
cg20541191	0.609	0.356	0.253	8e-04	NRG1	Hypermethylated in FP vs FN
cg01521274	0.607	0.335	0.272	8e-04	NA	Hypermethylated in FP vs FN
cg24544490	0.769	0.441	0.328	8e-04	NA	Hypermethylated in FP vs FN
cg05617413	0.653	0.310	0.344	8e-04	FBRSL1	Hypermethylated in FP vs FN
cg06285590	0.548	0.219	0.329	8e-04	NA	Hypermethylated in FP vs FN
cg02658690	0.773	0.495	0.278	8e-04	NA	Hypermethylated in FP vs FN
cg08687386	0.543	0.256	0.287	8e-04	FLOT1	Hypermethylated in FP vs FN
cg08074820	0.553	0.212	0.341	8e-04	NA	Hypermethylated in FP vs FN
cg13714026	0.661	0.397	0.264	8e-04	NA	Hypermethylated in FP vs FN
cg05771342	0.683	0.428	0.255	8e-04	MRGPRF	Hypermethylated in FP vs FN
cg02276807	0.634	0.308	0.326	8e-04	NA	Hypermethylated in FP vs FN
cg02164129	0.415	0.100	0.314	8e-04	NA	Hypermethylated in FP vs FN
cg15083233	0.622	0.293	0.330	8e-04	AKAP2	Hypermethylated in FP vs FN
cg06192497	0.519	0.225	0.295	8e-04	LOC100132215	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05907933	0.770	0.484	0.286	8e-04	NA	Hypermethylated in FP vs FN
cg25642234	0.636	0.358	0.278	8e-04	PLBD1	Hypermethylated in FP vs FN
cg26327666	0.719	0.449	0.270	8e-04	NA	Hypermethylated in FP vs FN
cg02902865	0.621	0.329	0.292	8e-04	DHRS3	Hypermethylated in FP vs FN
cg15974673	0.598	0.309	0.289	8e-04	NA	Hypermethylated in FP vs FN
cg00620733	0.604	0.333	0.271	8e-04	NA	Hypermethylated in FP vs FN
cg15962744	0.698	0.445	0.254	8e-04	NA	Hypermethylated in FP vs FN
cg05136737	0.546	0.275	0.271	8e-04	NA	Hypermethylated in FP vs FN
cg26413942	0.536	0.285	0.250	8e-04	ZNF608	Hypermethylated in FP vs FN
cg27303211	0.651	0.396	0.255	8e-04	NA	Hypermethylated in FP vs FN
cg11397854	0.464	0.166	0.298	8e-04	NA	Hypermethylated in FP vs FN
cg02626129	0.668	0.330	0.338	8e-04	C13orf33	Hypermethylated in FP vs FN
cg05874732	0.407	0.147	0.260	8e-04	NA	Hypermethylated in FP vs FN
cg18126442	0.532	0.241	0.291	8e-04	LOC100132215	Hypermethylated in FP vs FN
cg18877525	0.705	0.428	0.276	8e-04	NA	Hypermethylated in FP vs FN
cg00353773	0.583	0.283	0.299	8e-04	CXCL12	Hypermethylated in FP vs FN
cg23166865	0.468	0.204	0.264	8e-04	NA	Hypermethylated in FP vs FN
cg11699334	0.550	0.292	0.259	8e-04	NA	Hypermethylated in FP vs FN
cg22173752	0.431	0.162	0.269	8e-04	TICAM2	Hypermethylated in FP vs FN
cg14076239	0.648	0.384	0.265	8e-04	NA	Hypermethylated in FP vs FN
cg09426383	0.497	0.233	0.264	8e-04	NA	Hypermethylated in FP vs FN
cg06952099	0.637	0.370	0.267	8e-04	NA	Hypermethylated in FP vs FN
cg00702647	0.688	0.405	0.283	9e-04	NA	Hypermethylated in FP vs FN
cg23508813	0.621	0.371	0.250	9e-04	NA	Hypermethylated in FP vs FN
cg16210248	0.710	0.435	0.276	9e-04	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00314029	0.639	0.386	0.253	9e-04	NA	Hypermethylated in FP vs FN
cg05361489	0.613	0.346	0.266	9e-04	NA	Hypermethylated in FP vs FN
cg21983520	0.654	0.390	0.264	9e-04	NA	Hypermethylated in FP vs FN
cg23553912	0.809	0.546	0.262	9e-04	NA	Hypermethylated in FP vs FN
cg15920743	0.579	0.233	0.347	9e-04	NA	Hypermethylated in FP vs FN
cg07132492	0.806	0.554	0.252	9e-04	NA	Hypermethylated in FP vs FN
cg13619891	0.714	0.460	0.254	9e-04	NA	Hypermethylated in FP vs FN
cg18751141	0.772	0.474	0.299	9e-04	NA	Hypermethylated in FP vs FN
cg14576436	0.767	0.491	0.276	9e-04	NA	Hypermethylated in FP vs FN
cg25923609	0.806	0.481	0.325	9e-04	NA	Hypermethylated in FP vs FN
cg15679064	0.576	0.291	0.285	9e-04	NA	Hypermethylated in FP vs FN
cg20300032	0.668	0.416	0.252	9e-04	NA	Hypermethylated in FP vs FN
cg00445126	0.477	0.195	0.281	9e-04	LOC100132215	Hypermethylated in FP vs FN
cg03479694	0.749	0.473	0.276	9e-04	NA	Hypermethylated in FP vs FN
cg23706497	0.486	0.228	0.258	9e-04	OTX2	Hypermethylated in FP vs FN
cg17666539	0.659	0.299	0.359	1e-03	NA	Hypermethylated in FP vs FN
cg10409799	0.562	0.195	0.367	1e-03	ADAR	Hypermethylated in FP vs FN
cg02637537	0.855	0.594	0.261	1e-03	NA	Hypermethylated in FP vs FN
cg15355952	0.678	0.414	0.264	1e-03	NA	Hypermethylated in FP vs FN
cg08170787	0.718	0.452	0.266	1e-03	RUSC1	Hypermethylated in FP vs FN
cg05278650	0.384	0.090	0.294	1e-03	IQSEC1	Hypermethylated in FP vs FN
cg13672747	0.631	0.352	0.279	1e-03	NA	Hypermethylated in FP vs FN
cg07117219	0.481	0.202	0.279	1e-03	NA	Hypermethylated in FP vs FN
cg05257086	0.667	0.372	0.295	1e-03	NA	Hypermethylated in FP vs FN
cg10095954	0.755	0.486	0.269	1e-03	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02348751	0.804	0.500	0.304	0.001	NA	Hypermethylated in FP vs FN
cg26124968	0.729	0.409	0.321	0.001	NA	Hypermethylated in FP vs FN
cg21442003	0.656	0.384	0.272	0.001	ACVR1C	Hypermethylated in FP vs FN
cg20709110	0.657	0.337	0.320	0.001	NA	Hypermethylated in FP vs FN
cg27317046	0.501	0.211	0.290	0.001	NA	Hypermethylated in FP vs FN
cg18309286	0.402	0.138	0.264	0.001	NA	Hypermethylated in FP vs FN
cg24395452	0.533	0.248	0.284	0.001	NA	Hypermethylated in FP vs FN
cg02639927	0.621	0.294	0.327	0.001	NA	Hypermethylated in FP vs FN
cg10544031	0.705	0.442	0.263	0.001	PAX3	Hypermethylated in FP vs FN
cg04982308	0.628	0.303	0.325	0.001	NA	Hypermethylated in FP vs FN
cg21519787	0.682	0.385	0.297	0.001	NA	Hypermethylated in FP vs FN
cg09147068	0.746	0.494	0.252	0.001	NA	Hypermethylated in FP vs FN
cg03359508	0.527	0.241	0.287	0.001	NA	Hypermethylated in FP vs FN
cg00030422	0.470	0.201	0.269	0.001	DLEC1	Hypermethylated in FP vs FN
cg27245348	0.658	0.403	0.255	0.001	NA	Hypermethylated in FP vs FN
cg12297440	0.832	0.574	0.258	0.001	NA	Hypermethylated in FP vs FN
cg01554060	0.487	0.205	0.282	0.001	TICAM2	Hypermethylated in FP vs FN
cg10939691	0.494	0.213	0.281	0.001	NA	Hypermethylated in FP vs FN
cg26861732	0.826	0.536	0.291	0.001	NA	Hypermethylated in FP vs FN
cg20952901	0.756	0.417	0.339	0.001	NA	Hypermethylated in FP vs FN
cg13792579	0.559	0.261	0.298	0.001	NA	Hypermethylated in FP vs FN
cg04498198	0.453	0.191	0.262	0.001	NA	Hypermethylated in FP vs FN
cg16251357	0.729	0.427	0.302	0.001	PRAC	Hypermethylated in FP vs FN
cg25287257	0.440	0.150	0.290	0.001	NA	Hypermethylated in FP vs FN
cg09380000	0.836	0.586	0.250	0.001	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23681745	0.769	0.431	0.338	0.001	NA	Hypermethylated in FP vs FN
cg00409684	0.517	0.238	0.279	0.001	NA	Hypermethylated in FP vs FN
cg16115627	0.698	0.392	0.305	0.001	NA	Hypermethylated in FP vs FN
cg25145165	0.724	0.462	0.262	0.001	NA	Hypermethylated in FP vs FN
cg12671090	0.736	0.476	0.261	0.001	RPL13AP17	Hypermethylated in FP vs FN
cg27395066	0.760	0.490	0.270	0.001	NA	Hypermethylated in FP vs FN
cg19945931	0.668	0.350	0.318	0.001	NA	Hypermethylated in FP vs FN
cg06154903	0.734	0.467	0.267	0.001	NA	Hypermethylated in FP vs FN
cg04237822	0.667	0.378	0.289	0.001	NA	Hypermethylated in FP vs FN
cg20733436	0.457	0.181	0.276	0.001	NA	Hypermethylated in FP vs FN
cg23881099	0.688	0.436	0.253	0.001	NA	Hypermethylated in FP vs FN
cg08327690	0.382	0.124	0.258	0.001	NA	Hypermethylated in FP vs FN
cg18527241	0.697	0.441	0.257	0.001	ATXN7L1	Hypermethylated in FP vs FN
cg01598421	0.637	0.372	0.264	0.001	NA	Hypermethylated in FP vs FN
cg16999254	0.730	0.404	0.326	0.001	NA	Hypermethylated in FP vs FN
cg03477112	0.632	0.359	0.274	0.001	NA	Hypermethylated in FP vs FN
cg06254440	0.806	0.526	0.280	0.001	NA	Hypermethylated in FP vs FN
cg01152056	0.662	0.409	0.254	0.001	NA	Hypermethylated in FP vs FN
cg14234406	0.648	0.390	0.259	0.001	PLEC1	Hypermethylated in FP vs FN
cg21880765	0.652	0.377	0.275	0.001	NA	Hypermethylated in FP vs FN
cg18378551	0.603	0.329	0.274	0.001	NA	Hypermethylated in FP vs FN
cg08535928	0.654	0.372	0.281	0.001	LOC149134	Hypermethylated in FP vs FN
cg23961466	0.556	0.276	0.281	0.001	NA	Hypermethylated in FP vs FN
cg08657654	0.780	0.491	0.289	0.001	NA	Hypermethylated in FP vs FN
cg09235583	0.589	0.287	0.301	0.001	FLOT1	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25104512	0.833	0.528	0.304	0.001	ALS2CL	Hypermethylated in FP vs FN
cg05813818	0.690	0.425	0.265	0.001	NA	Hypermethylated in FP vs FN
cg17266581	0.646	0.324	0.322	0.001	NA	Hypermethylated in FP vs FN
cg23881725	0.645	0.381	0.263	0.001	DLEC1	Hypermethylated in FP vs FN
cg22764044	0.564	0.277	0.287	0.001	RUFY1	Hypermethylated in FP vs FN
cg01305186	0.630	0.311	0.319	0.001	NA	Hypermethylated in FP vs FN
cg02633729	0.521	0.237	0.283	0.001	NA	Hypermethylated in FP vs FN
cg16701059	0.612	0.329	0.283	0.001	NA	Hypermethylated in FP vs FN
cg01484156	0.623	0.361	0.262	0.001	NA	Hypermethylated in FP vs FN
cg05109569	0.608	0.350	0.258	0.001	NA	Hypermethylated in FP vs FN
cg13910860	0.376	0.087	0.290	0.001	NA	Hypermethylated in FP vs FN
cg24220279	0.457	0.185	0.272	0.001	NA	Hypermethylated in FP vs FN
cg03096126	0.494	0.221	0.273	0.001	NA	Hypermethylated in FP vs FN
cg19284211	0.798	0.508	0.290	0.001	INSM1	Hypermethylated in FP vs FN
cg19878200	0.644	0.392	0.252	0.001	NA	Hypermethylated in FP vs FN
cg05929675	0.774	0.500	0.274	0.001	CREB5	Hypermethylated in FP vs FN
cg21340999	0.770	0.498	0.272	0.001	NA	Hypermethylated in FP vs FN
cg13500072	0.853	0.579	0.274	0.001	NA	Hypermethylated in FP vs FN
cg14730102	0.643	0.363	0.280	0.001	NA	Hypermethylated in FP vs FN
cg20962117	0.690	0.415	0.275	0.001	NA	Hypermethylated in FP vs FN
cg17865555	0.713	0.432	0.281	0.001	NA	Hypermethylated in FP vs FN
cg06775523	0.653	0.387	0.266	0.001	NA	Hypermethylated in FP vs FN
cg17737621	0.747	0.432	0.316	0.001	NA	Hypermethylated in FP vs FN
cg00073837	0.630	0.332	0.298	0.001	NA	Hypermethylated in FP vs FN
cg27427514	0.701	0.379	0.323	0.002	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06007271	0.558	0.300	0.258	0.002	CYTL1	Hypermethylated in FP vs FN
cg23404330	0.640	0.366	0.274	0.002	NA	Hypermethylated in FP vs FN
cg15473473	0.852	0.593	0.259	0.002	NNAT	Hypermethylated in FP vs FN
cg00881448	0.771	0.512	0.259	0.002	NA	Hypermethylated in FP vs FN
cg19903229	0.659	0.402	0.257	0.002	C14orf105	Hypermethylated in FP vs FN
cg20684180	0.657	0.362	0.295	0.002	DLEC1	Hypermethylated in FP vs FN
cg10709593	0.719	0.442	0.277	0.002	NA	Hypermethylated in FP vs FN
cg07936950	0.756	0.466	0.290	0.002	NA	Hypermethylated in FP vs FN
cg05514909	0.698	0.410	0.288	0.002	NA	Hypermethylated in FP vs FN
cg08542865	0.534	0.262	0.272	0.002	SERPINB1	Hypermethylated in FP vs FN
cg26718433	0.595	0.312	0.283	0.002	CXCL12	Hypermethylated in FP vs FN
cg25623768	0.543	0.256	0.287	0.002	NA	Hypermethylated in FP vs FN
cg03355998	0.549	0.297	0.252	0.002	ZIC4	Hypermethylated in FP vs FN
cg20479660	0.821	0.562	0.259	0.002	NNAT	Hypermethylated in FP vs FN
cg00260802	0.609	0.318	0.291	0.002	NA	Hypermethylated in FP vs FN
cg11592786	0.901	0.622	0.278	0.002	NA	Hypermethylated in FP vs FN
cg26608693	0.634	0.367	0.267	0.002	NA	Hypermethylated in FP vs FN
cg02554345	0.702	0.420	0.282	0.002	NA	Hypermethylated in FP vs FN
cg21038785	0.580	0.301	0.279	0.002	NA	Hypermethylated in FP vs FN
cg09098522	0.639	0.377	0.262	0.002	NA	Hypermethylated in FP vs FN
cg12317414	0.677	0.379	0.298	0.002	NA	Hypermethylated in FP vs FN
cg16024133	0.454	0.162	0.292	0.002	NA	Hypermethylated in FP vs FN
cg01288375	0.702	0.447	0.255	0.002	NA	Hypermethylated in FP vs FN
cg12467933	0.519	0.258	0.261	0.002	NA	Hypermethylated in FP vs FN
cg09832443	0.635	0.381	0.255	0.002	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27183188	0.580	0.300	0.280	0.002	ALDOC	Hypermethylated in FP vs FN
cg03405260	0.782	0.513	0.269	0.002	NA	Hypermethylated in FP vs FN
cg04441405	0.676	0.425	0.250	0.002	NA	Hypermethylated in FP vs FN
cg07973095	0.600	0.301	0.299	0.002	DECR2	Hypermethylated in FP vs FN
cg05636047	0.707	0.441	0.266	0.002	NA	Hypermethylated in FP vs FN
cg23659289	0.735	0.484	0.251	0.002	NA	Hypermethylated in FP vs FN
cg10136560	0.684	0.428	0.256	0.002	NA	Hypermethylated in FP vs FN
cg05144067	0.573	0.284	0.289	0.002	NA	Hypermethylated in FP vs FN
cg10927719	0.618	0.332	0.286	0.002	CXCL12	Hypermethylated in FP vs FN
cg23601030	0.578	0.328	0.250	0.002	NA	Hypermethylated in FP vs FN
cg22682811	0.702	0.383	0.319	0.002	NA	Hypermethylated in FP vs FN
cg12162138	0.634	0.284	0.350	0.002	NA	Hypermethylated in FP vs FN
cg07214490	0.705	0.443	0.263	0.002	NA	Hypermethylated in FP vs FN
cg10427452	0.731	0.476	0.255	0.002	NA	Hypermethylated in FP vs FN
cg00186529	0.663	0.407	0.256	0.002	NA	Hypermethylated in FP vs FN
cg17542408	0.671	0.305	0.367	0.002	NA	Hypermethylated in FP vs FN
cg26958524	0.837	0.584	0.253	0.002	FOXL1	Hypermethylated in FP vs FN
cg09140778	0.652	0.401	0.251	0.002	NA	Hypermethylated in FP vs FN
cg13042918	0.604	0.339	0.265	0.002	NA	Hypermethylated in FP vs FN
cg20935363	0.610	0.348	0.262	0.002	NA	Hypermethylated in FP vs FN
cg03762694	0.596	0.313	0.282	0.002	SGK1	Hypermethylated in FP vs FN
cg07789359	0.874	0.614	0.260	0.002	NA	Hypermethylated in FP vs FN
cg27252696	0.380	0.115	0.264	0.002	SIM1	Hypermethylated in FP vs FN
cg03061677	0.829	0.563	0.266	0.002	NNAT	Hypermethylated in FP vs FN
cg04892182	0.773	0.504	0.269	0.002	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24507266	0.698	0.380	0.318	0.002	PLEC1	Hypermethylated in FP vs FN
cg11567001	0.465	0.157	0.307	0.002	NA	Hypermethylated in FP vs FN
cg20826224	0.557	0.252	0.306	0.002	NA	Hypermethylated in FP vs FN
cg04007726	0.616	0.336	0.281	0.002	NA	Hypermethylated in FP vs FN
cg21097283	0.592	0.326	0.266	0.002	OTP	Hypermethylated in FP vs FN
cg12232308	0.644	0.342	0.302	0.002	FLOT1	Hypermethylated in FP vs FN
cg10651121	0.610	0.352	0.258	0.002	NA	Hypermethylated in FP vs FN
cg26912671	0.760	0.483	0.277	0.002	PDE4B	Hypermethylated in FP vs FN
cg13420744	0.729	0.443	0.286	0.002	DHRS3	Hypermethylated in FP vs FN
cg09267483	0.519	0.240	0.280	0.002	NA	Hypermethylated in FP vs FN
cg14344261	0.394	0.099	0.295	0.002	NA	Hypermethylated in FP vs FN
cg05155840	0.625	0.362	0.263	0.002	NA	Hypermethylated in FP vs FN
cg26026416	0.446	0.150	0.296	0.002	NA	Hypermethylated in FP vs FN
cg06736444	0.748	0.495	0.253	0.002	SRRM2	Hypermethylated in FP vs FN
cg27056119	0.488	0.226	0.261	0.002	SERPINB1	Hypermethylated in FP vs FN
cg04716021	0.526	0.265	0.261	0.002	NA	Hypermethylated in FP vs FN
cg19990785	0.739	0.471	0.268	0.002	NA	Hypermethylated in FP vs FN
cg14384158	0.805	0.499	0.307	0.002	NA	Hypermethylated in FP vs FN
cg22344727	0.691	0.400	0.291	0.002	NA	Hypermethylated in FP vs FN
cg17763354	0.684	0.370	0.314	0.002	NA	Hypermethylated in FP vs FN
cg22481960	0.494	0.201	0.293	0.002	NA	Hypermethylated in FP vs FN
cg24000241	0.708	0.457	0.251	0.002	NA	Hypermethylated in FP vs FN
cg04652621	0.458	0.185	0.272	0.002	NA	Hypermethylated in FP vs FN
cg13947088	0.774	0.481	0.293	0.002	NA	Hypermethylated in FP vs FN
cg15149374	0.778	0.525	0.254	0.002	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25363807	0.644	0.334	0.310	0.002	NA	Hypermethylated in FP vs FN
cg13433250	0.498	0.232	0.266	0.002	LOC100132215	Hypermethylated in FP vs FN
cg27344587	0.534	0.228	0.306	0.002	LOC100132215	Hypermethylated in FP vs FN
cg06793867	0.614	0.303	0.311	0.002	NA	Hypermethylated in FP vs FN
cg15027262	0.629	0.375	0.254	0.002	SNX24	Hypermethylated in FP vs FN
cg15731180	0.662	0.410	0.252	0.002	NA	Hypermethylated in FP vs FN
cg21120436	0.527	0.240	0.287	0.002	NA	Hypermethylated in FP vs FN
cg12308746	0.743	0.481	0.263	0.002	NA	Hypermethylated in FP vs FN
cg12252135	0.617	0.325	0.292	0.002	NA	Hypermethylated in FP vs FN
cg13255282	0.503	0.229	0.274	0.002	CYTL1	Hypermethylated in FP vs FN
cg02774523	0.549	0.276	0.272	0.002	NA	Hypermethylated in FP vs FN
cg03727202	0.517	0.260	0.257	0.002	NA	Hypermethylated in FP vs FN
cg19391924	0.746	0.455	0.291	0.002	NA	Hypermethylated in FP vs FN
cg25019648	0.534	0.202	0.332	0.002	NA	Hypermethylated in FP vs FN
cg27226920	0.490	0.185	0.305	0.002	NA	Hypermethylated in FP vs FN
cg09013975	0.658	0.406	0.252	0.002	NA	Hypermethylated in FP vs FN
cg21461082	0.669	0.387	0.281	0.002	NA	Hypermethylated in FP vs FN
cg09240763	0.706	0.441	0.265	0.002	NA	Hypermethylated in FP vs FN
cg27138293	0.681	0.415	0.266	0.002	NA	Hypermethylated in FP vs FN
cg12614687	0.401	0.143	0.258	0.002	NA	Hypermethylated in FP vs FN
cg06077079	0.697	0.408	0.289	0.002	NA	Hypermethylated in FP vs FN
cg09533868	0.722	0.428	0.294	0.002	NA	Hypermethylated in FP vs FN
cg18888655	0.796	0.460	0.336	0.002	NA	Hypermethylated in FP vs FN
cg19725903	0.564	0.288	0.276	0.002	PLBD1	Hypermethylated in FP vs FN
cg10958002	0.725	0.456	0.269	0.002	TIMP4	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26627956	0.818	0.503	0.315	0.002	NA	Hypermethylated in FP vs FN
cg08470742	0.759	0.509	0.250	0.003	NA	Hypermethylated in FP vs FN
cg20707679	0.396	0.118	0.279	0.003	NA	Hypermethylated in FP vs FN
cg02369450	0.862	0.583	0.279	0.003	NA	Hypermethylated in FP vs FN
cg00401745	0.596	0.342	0.254	0.003	ARHGEF4	Hypermethylated in FP vs FN
cg25689193	0.511	0.248	0.263	0.003	NA	Hypermethylated in FP vs FN
cg15929797	0.778	0.431	0.347	0.003	NA	Hypermethylated in FP vs FN
cg24869272	0.471	0.218	0.253	0.003	NA	Hypermethylated in FP vs FN
cg16452866	0.764	0.503	0.261	0.003	NA	Hypermethylated in FP vs FN
cg00031256	0.498	0.245	0.253	0.003	SERPINB1	Hypermethylated in FP vs FN
cg25074426	0.637	0.379	0.259	0.003	NA	Hypermethylated in FP vs FN
cg17380661	0.379	0.126	0.253	0.003	SIM1	Hypermethylated in FP vs FN
cg18523979	0.378	0.117	0.261	0.003	IQSEC1	Hypermethylated in FP vs FN
cg10120657	0.765	0.485	0.280	0.003	NA	Hypermethylated in FP vs FN
cg13830624	0.477	0.222	0.255	0.003	COL21A1	Hypermethylated in FP vs FN
cg09718037	0.679	0.385	0.294	0.003	NA	Hypermethylated in FP vs FN
cg14183184	0.658	0.380	0.278	0.003	NA	Hypermethylated in FP vs FN
cg04666975	0.629	0.363	0.266	0.003	NA	Hypermethylated in FP vs FN
cg11983576	0.574	0.298	0.276	0.003	NA	Hypermethylated in FP vs FN
cg07976390	0.451	0.191	0.260	0.003	ADAR	Hypermethylated in FP vs FN
cg02023167	0.801	0.547	0.253	0.003	NA	Hypermethylated in FP vs FN
cg26280713	0.784	0.508	0.276	0.003	NA	Hypermethylated in FP vs FN
cg08297751	0.773	0.485	0.288	0.003	NA	Hypermethylated in FP vs FN
cg02821871	0.772	0.513	0.260	0.003	NA	Hypermethylated in FP vs FN
cg23714773	0.791	0.511	0.281	0.003	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16835233	0.573	0.286	0.287	0.003	NA	Hypermethylated in FP vs FN
cg17737681	0.575	0.319	0.256	0.003	NA	Hypermethylated in FP vs FN
cg18108716	0.501	0.206	0.295	0.003	NA	Hypermethylated in FP vs FN
cg05860723	0.661	0.391	0.269	0.003	NA	Hypermethylated in FP vs FN
cg02346492	0.416	0.154	0.262	0.003	NA	Hypermethylated in FP vs FN
cg02963119	0.690	0.430	0.261	0.003	DEC2	Hypermethylated in FP vs FN
cg19388016	0.457	0.143	0.314	0.003	NA	Hypermethylated in FP vs FN
cg15703636	0.487	0.219	0.268	0.003	COL21A1	Hypermethylated in FP vs FN
cg06528559	0.597	0.290	0.307	0.003	LOC100132215	Hypermethylated in FP vs FN
cg24759337	0.623	0.311	0.311	0.003	NA	Hypermethylated in FP vs FN
cg02101773	0.814	0.521	0.293	0.003	INSM1	Hypermethylated in FP vs FN
cg23030863	0.466	0.206	0.260	0.003	NA	Hypermethylated in FP vs FN
cg03124636	0.596	0.321	0.276	0.003	FLOT1	Hypermethylated in FP vs FN
cg08557649	0.523	0.255	0.268	0.003	NA	Hypermethylated in FP vs FN
cg22943498	0.840	0.560	0.280	0.003	NNAT	Hypermethylated in FP vs FN
cg25537434	0.709	0.452	0.256	0.003	NA	Hypermethylated in FP vs FN
cg02442619	0.597	0.323	0.274	0.003	DCN	Hypermethylated in FP vs FN
cg22719826	0.784	0.530	0.254	0.003	NA	Hypermethylated in FP vs FN
cg23681339	0.528	0.276	0.251	0.003	FBRSL1	Hypermethylated in FP vs FN
cg06422883	0.604	0.348	0.256	0.003	NA	Hypermethylated in FP vs FN
cg27218796	0.844	0.586	0.258	0.003	NA	Hypermethylated in FP vs FN
cg23440822	0.505	0.224	0.281	0.003	NA	Hypermethylated in FP vs FN
cg15556943	0.688	0.371	0.317	0.003	NA	Hypermethylated in FP vs FN
cg22633840	0.759	0.504	0.255	0.003	NA	Hypermethylated in FP vs FN
cg27635394	0.580	0.292	0.288	0.003	HIST1H2BB	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05060949	0.451	0.183	0.268	0.003	NA	Hypermethylated in FP vs FN
cg16737517	0.623	0.351	0.272	0.003	NA	Hypermethylated in FP vs FN
cg17504394	0.588	0.331	0.256	0.003	NA	Hypermethylated in FP vs FN
cg06693983	0.486	0.229	0.257	0.003	NA	Hypermethylated in FP vs FN
cg05627733	0.636	0.377	0.259	0.003	NA	Hypermethylated in FP vs FN
cg09346546	0.680	0.412	0.268	0.003	NA	Hypermethylated in FP vs FN
cg05985589	0.569	0.303	0.266	0.003	CYTL1	Hypermethylated in FP vs FN
cg21126707	0.724	0.450	0.274	0.003	MYF5	Hypermethylated in FP vs FN
cg09486778	0.669	0.414	0.255	0.003	NA	Hypermethylated in FP vs FN
cg18369516	0.645	0.335	0.310	0.003	NA	Hypermethylated in FP vs FN
cg04555966	0.734	0.449	0.286	0.003	NA	Hypermethylated in FP vs FN
cg05952572	0.601	0.321	0.279	0.003	NA	Hypermethylated in FP vs FN
cg15938529	0.612	0.329	0.283	0.003	NA	Hypermethylated in FP vs FN
cg23642200	0.499	0.215	0.285	0.003	NA	Hypermethylated in FP vs FN
cg07571734	0.749	0.448	0.301	0.004	NA	Hypermethylated in FP vs FN
cg14606586	0.395	0.137	0.258	0.004	NA	Hypermethylated in FP vs FN
cg17723653	0.644	0.376	0.268	0.004	NA	Hypermethylated in FP vs FN
cg07045891	0.610	0.340	0.269	0.004	NA	Hypermethylated in FP vs FN
cg20401567	0.649	0.394	0.255	0.004	NA	Hypermethylated in FP vs FN
cg05176991	0.588	0.305	0.283	0.004	KCTD1	Hypermethylated in FP vs FN
cg04153822	0.581	0.320	0.261	0.004	NA	Hypermethylated in FP vs FN
cg14317609	0.406	0.144	0.262	0.004	NA	Hypermethylated in FP vs FN
cg09411730	0.484	0.223	0.260	0.004	NA	Hypermethylated in FP vs FN
cg17614974	0.545	0.256	0.289	0.004	NA	Hypermethylated in FP vs FN
cg01176433	0.757	0.482	0.275	0.004	NA	Hypermethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13558754	0.587	0.335	0.252	0.004	HSPB6_C19orf55	Hypermethylated in FP vs FN
cg08718490	0.533	0.249	0.284	0.004	NA	Hypermethylated in FP vs FN
cg26156687	0.687	0.412	0.275	0.004	NA	Hypermethylated in FP vs FN
cg19497517	0.794	0.534	0.259	0.004	PLEC1	Hypermethylated in FP vs FN
cg18586886	0.611	0.331	0.280	0.004	KIAA1949	Hypermethylated in FP vs FN
cg00586817	0.750	0.497	0.253	0.004	NA	Hypermethylated in FP vs FN
cg06544882	0.800	0.546	0.255	0.004	NA	Hypermethylated in FP vs FN
cg20403938	0.676	0.380	0.296	0.004	HOXC10	Hypermethylated in FP vs FN
cg07246273	0.575	0.299	0.276	0.004	NA	Hypermethylated in FP vs FN
cg14262681	0.745	0.441	0.303	0.004	NA	Hypermethylated in FP vs FN
cg19280586	0.525	0.249	0.277	0.004	NA	Hypermethylated in FP vs FN
cg01665823	0.521	0.251	0.270	0.004	HIST1H2BE	Hypermethylated in FP vs FN
cg04933208	0.540	0.275	0.265	0.004	NA	Hypermethylated in FP vs FN
cg15214183	0.777	0.482	0.295	0.004	NA	Hypermethylated in FP vs FN
cg22452230	0.745	0.488	0.257	0.004	NA	Hypermethylated in FP vs FN
cg16898124	0.631	0.316	0.315	0.004	ZXDC	Hypermethylated in FP vs FN
cg05099145	0.732	0.458	0.274	0.004	NA	Hypermethylated in FP vs FN
cg14189782	0.738	0.465	0.272	0.004	EHBP1L1	Hypermethylated in FP vs FN
cg23693289	0.662	0.364	0.298	0.004	PTK2B	Hypermethylated in FP vs FN
cg06304401	0.477	0.204	0.272	0.004	NA	Hypermethylated in FP vs FN
cg05157725	0.475	0.212	0.263	0.004	COL21A1	Hypermethylated in FP vs FN
cg02407342	0.770	0.514	0.256	0.004	NA	Hypermethylated in FP vs FN
cg09968723	0.684	0.372	0.312	0.004	BAI1	Hypermethylated in FP vs FN
cg11330740	0.634	0.369	0.265	0.004	NA	Hypermethylated in FP vs FN
cg17508991	0.504	0.243	0.261	0.004	HCK	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21635854	0.375	0.118	0.257	0.004	NA	Hypermethylated in FP vs FN
cg16041686	0.762	0.511	0.251	0.004	NA	Hypermethylated in FP vs FN
cg10963518	0.536	0.275	0.262	0.005	NA	Hypermethylated in FP vs FN
cg23975840	0.652	0.374	0.278	0.005	NA	Hypermethylated in FP vs FN
cg17069396	0.496	0.223	0.273	0.005	NA	Hypermethylated in FP vs FN
cg15297724	0.635	0.355	0.280	0.005	NA	Hypermethylated in FP vs FN
cg00560542	0.618	0.342	0.276	0.005	NA	Hypermethylated in FP vs FN
cg13804182	0.590	0.320	0.270	0.005	FLOT1	Hypermethylated in FP vs FN
cg13337949	0.656	0.372	0.284	0.005	FLOT1	Hypermethylated in FP vs FN
cg27545367	0.627	0.349	0.278	0.005	FLOT1	Hypermethylated in FP vs FN
cg03596016	0.764	0.483	0.281	0.005	LOC149134	Hypermethylated in FP vs FN
cg16235582	0.676	0.402	0.274	0.005	NA	Hypermethylated in FP vs FN
cg18979589	0.759	0.490	0.269	0.005	NA	Hypermethylated in FP vs FN
cg03889542	0.605	0.306	0.299	0.005	NA	Hypermethylated in FP vs FN
cg08079908	0.551	0.297	0.254	0.005	NA	Hypermethylated in FP vs FN
cg11333189	0.729	0.477	0.253	0.005	NA	Hypermethylated in FP vs FN
cg10791959	0.663	0.399	0.264	0.005	NA	Hypermethylated in FP vs FN
cg10938374	0.399	0.148	0.251	0.005	NA	Hypermethylated in FP vs FN
cg26884027	0.583	0.319	0.264	0.005	NA	Hypermethylated in FP vs FN
cg05131488	0.659	0.409	0.250	0.005	ETV1	Hypermethylated in FP vs FN
cg24675557	0.818	0.555	0.263	0.005	NNAT	Hypermethylated in FP vs FN
cg06962177	0.796	0.494	0.302	0.005	NA	Hypermethylated in FP vs FN
cg24208826	0.516	0.220	0.296	0.005	NA	Hypermethylated in FP vs FN
cg13019491	0.707	0.433	0.274	0.005	NA	Hypermethylated in FP vs FN
cg26191923	0.620	0.370	0.251	0.005	HIST1H2BE	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04887807	0.555	0.252	0.303	0.005	CYTL1	Hypermethylated in FP vs FN
cg15027300	0.634	0.374	0.261	0.005	NA	Hypermethylated in FP vs FN
cg00756032	0.711	0.459	0.252	0.005	NA	Hypermethylated in FP vs FN
cg16357224	0.702	0.444	0.257	0.005	NA	Hypermethylated in FP vs FN
cg01114088	0.576	0.281	0.295	0.005	CYTL1	Hypermethylated in FP vs FN
cg17029019	0.560	0.289	0.271	0.005	HIC1	Hypermethylated in FP vs FN
cg19497031	0.438	0.169	0.269	0.005	NA	Hypermethylated in FP vs FN
cg23227355	0.476	0.216	0.260	0.005	NA	Hypermethylated in FP vs FN
cg19978550	0.642	0.373	0.269	0.005	NA	Hypermethylated in FP vs FN
cg21004899	0.750	0.490	0.259	0.005	CREB5	Hypermethylated in FP vs FN
cg03084949	0.811	0.556	0.255	0.006	NA	Hypermethylated in FP vs FN
cg24977886	0.663	0.412	0.251	0.006	FAM109B	Hypermethylated in FP vs FN
cg25548594	0.671	0.418	0.254	0.006	NA	Hypermethylated in FP vs FN
cg23440004	0.597	0.344	0.253	0.006	NA	Hypermethylated in FP vs FN
cg18579564	0.510	0.256	0.255	0.006	NA	Hypermethylated in FP vs FN
cg17389738	0.607	0.343	0.264	0.006	FLOT1	Hypermethylated in FP vs FN
cg07997936	0.624	0.352	0.273	0.006	HIST1H2BE	Hypermethylated in FP vs FN
cg05186320	0.619	0.363	0.256	0.006	NA	Hypermethylated in FP vs FN
cg12392684	0.579	0.312	0.267	0.006	HIST1H2BE	Hypermethylated in FP vs FN
cg17526887	0.660	0.391	0.269	0.006	NA	Hypermethylated in FP vs FN
cg23605670	0.820	0.565	0.255	0.006	NNAT	Hypermethylated in FP vs FN
cg19340420	0.582	0.314	0.269	0.006	NA	Hypermethylated in FP vs FN
cg10981598	0.805	0.545	0.260	0.006	NNAT	Hypermethylated in FP vs FN
cg10665891	0.562	0.298	0.263	0.006	NA	Hypermethylated in FP vs FN
cg26516362	0.568	0.273	0.295	0.006	RUFY1	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20042639	0.547	0.297	0.250	0.006	NA	Hypermethylated in FP vs FN
cg00420348	0.523	0.269	0.254	0.006	NA	Hypermethylated in FP vs FN
cg00028678	0.625	0.366	0.259	0.006	ARHGEF4	Hypermethylated in FP vs FN
cg26581714	0.574	0.317	0.257	0.006	NA	Hypermethylated in FP vs FN
cg06482019	0.513	0.230	0.282	0.006	NA	Hypermethylated in FP vs FN
cg16748008	0.731	0.476	0.255	0.007	HOXA3	Hypermethylated in FP vs FN
cg14149680	0.647	0.344	0.302	0.007	NA	Hypermethylated in FP vs FN
cg09060608	0.572	0.298	0.274	0.007	RUFY1	Hypermethylated in FP vs FN
cg09341793	0.870	0.591	0.279	0.007	NA	Hypermethylated in FP vs FN
cg22942804	0.568	0.314	0.254	0.007	HIST1H2BE	Hypermethylated in FP vs FN
cg07858113	0.648	0.347	0.301	0.007	FLOT1	Hypermethylated in FP vs FN
cg20707230	0.762	0.469	0.293	0.007	NA	Hypermethylated in FP vs FN
cg14084907	0.567	0.281	0.286	0.007	NA	Hypermethylated in FP vs FN
cg18381051	0.773	0.523	0.251	0.007	NA	Hypermethylated in FP vs FN
cg26032198	0.646	0.385	0.261	0.007	NA	Hypermethylated in FP vs FN
cg11171221	0.679	0.390	0.289	0.007	NA	Hypermethylated in FP vs FN
cg19814981	0.719	0.459	0.260	0.007	NA	Hypermethylated in FP vs FN
cg21226059	0.573	0.278	0.295	0.008	RUFY1	Hypermethylated in FP vs FN
cg10703826	0.726	0.467	0.259	0.008	TBX15	Hypermethylated in FP vs FN
cg03199564	0.561	0.256	0.305	0.008	CYTL1	Hypermethylated in FP vs FN
cg00080972	0.601	0.330	0.270	0.009	RUFY1	Hypermethylated in FP vs FN
cg16670554	0.740	0.490	0.250	0.009	NA	Hypermethylated in FP vs FN
cg13647892	0.687	0.436	0.251	0.009	NA	Hypermethylated in FP vs FN
cg16535144	0.655	0.367	0.288	0.009	NA	Hypermethylated in FP vs FN
cg04987499	0.507	0.253	0.254	0.009	CYB561	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07289306	0.613	0.339	0.274	0.009	NA	Hypermethylated in FP vs FN
cg09614300	0.633	0.379	0.254	0.009	HMX3	Hypermethylated in FP vs FN
cg00327669	0.811	0.546	0.265	0.009	NA	Hypermethylated in FP vs FN
cg14507337	0.774	0.506	0.268	0.009	NA	Hypermethylated in FP vs FN
cg01821429	0.616	0.360	0.256	0.010	NA	Hypermethylated in FP vs FN
cg05457628	0.541	0.263	0.278	0.010	RUFY1	Hypermethylated in FP vs FN
cg26426142	0.523	0.267	0.256	0.010	HIST1H2BB_HIST1H3C	Hypermethylated in FP vs FN
cg07835424	0.742	0.463	0.279	0.010	NA	Hypermethylated in FP vs FN
cg01558212	0.733	0.472	0.261	0.010	NA	Hypermethylated in FP vs FN
cg07701237	0.547	0.272	0.275	0.010	HIST1H2BB_HIST1H3C	Hypermethylated in FP vs FN
cg24873562	0.599	0.311	0.287	0.010	NA	Hypermethylated in FP vs FN
cg22840219	0.554	0.301	0.253	0.010	NA	Hypermethylated in FP vs FN
cg27005749	0.659	0.406	0.253	0.010	NA	Hypermethylated in FP vs FN
cg19264651	0.650	0.367	0.282	0.010	NA	Hypermethylated in FP vs FN
cg08457178	0.618	0.346	0.272	0.010	FLOT1	Hypermethylated in FP vs FN
cg01323777	0.658	0.386	0.272	0.010	KCNAB3	Hypermethylated in FP vs FN
cg23663774	0.641	0.370	0.271	0.010	NA	Hypermethylated in FP vs FN
cg16513459	0.615	0.354	0.260	0.010	KCNAB3	Hypermethylated in FP vs FN
cg23401796	0.589	0.335	0.253	0.010	NA	Hypermethylated in FP vs FN
cg13407335	0.640	0.364	0.276	0.010	KCNAB3	Hypermethylated in FP vs FN
cg14820908	0.580	0.299	0.281	0.010	RUFY1	Hypermethylated in FP vs FN
cg14918082	0.593	0.332	0.261	0.010	KCNAB3	Hypermethylated in FP vs FN
cg02221866	0.551	0.297	0.254	0.010	HIST1H2BB_HIST1H3C	Hypermethylated in FP vs FN
cg08384314	0.560	0.292	0.268	0.010	FLOT1	Hypermethylated in FP vs FN
cg06497668	0.545	0.273	0.272	0.010	NA	Hypermethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00442112	0.509	0.253	0.257	1e-02	CYTL1	Hypermethylated in FP vs FN
cg00612515	0.731	0.476	0.255	1e-02	NA	Hypermethylated in FP vs FN
cg03740978	0.719	0.459	0.260	2e-02	KCTD1	Hypermethylated in FP vs FN
cg07933078	0.728	0.475	0.254	2e-02	NA	Hypermethylated in FP vs FN
cg25272065	0.633	0.372	0.261	2e-02	NA	Hypermethylated in FP vs FN
cg25438963	0.522	0.263	0.259	2e-02	HIST1H3C	Hypermethylated in FP vs FN
cg04374711	0.607	0.346	0.261	2e-02	NA	Hypermethylated in FP vs FN
cg05646373	0.497	0.241	0.256	2e-02	HIST1H2BB_HIST1H3C	Hypermethylated in FP vs FN
cg10082647	0.573	0.309	0.264	2e-02	C12orf23	Hypermethylated in FP vs FN
cg23365801	0.570	0.316	0.255	2e-02	KCNAB3	Hypermethylated in FP vs FN
cg13377102	0.636	0.373	0.263	2e-02	KCNAB3	Hypermethylated in FP vs FN
cg05825244	0.737	0.456	0.281	2e-02	NA	Hypermethylated in FP vs FN
cg21042456	0.715	0.446	0.268	2e-02	NA	Hypermethylated in FP vs FN
cg04586407	0.629	0.376	0.253	2e-02	NA	Hypermethylated in FP vs FN
cg16306898	0.553	0.302	0.251	2e-02	C1orf70	Hypermethylated in FP vs FN
cg09991306	0.687	0.433	0.254	3e-02	NA	Hypermethylated in FP vs FN
cg15487867	0.603	0.333	0.270	3e-02	C1orf70	Hypermethylated in FP vs FN
cg21017569	0.674	0.421	0.253	3e-02	KCNAB3	Hypermethylated in FP vs FN
cg16601494	0.677	0.411	0.266	3e-02	C1orf70	Hypermethylated in FP vs FN
cg13118906	0.546	0.296	0.250	3e-02	CYB561	Hypermethylated in FP vs FN
cg23475625	0.661	0.407	0.254	3e-02	NA	Hypermethylated in FP vs FN
cg04828133	0.653	0.375	0.278	4e-02	NA	Hypermethylated in FP vs FN
cg27201457	0.541	0.948	-0.406	2e-17	NA	Hypomethylated in FP vs FN
cg23244464	0.302	0.876	-0.573	5e-17	NA	Hypomethylated in FP vs FN
cg00731944	0.417	0.887	-0.470	4e-15	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14978242	0.284	0.835	-0.551	2e-14	NA	Hypomethylated in FP vs FN
cg19646759	0.392	0.871	-0.478	2e-14	NA	Hypomethylated in FP vs FN
cg03717755	0.417	0.805	-0.388	2e-14	NA	Hypomethylated in FP vs FN
cg24075760	0.271	0.710	-0.439	4e-14	NA	Hypomethylated in FP vs FN
cg00704869	0.416	0.803	-0.387	5e-14	NA	Hypomethylated in FP vs FN
cg22648929	0.507	0.916	-0.409	5e-14	NA	Hypomethylated in FP vs FN
cg09389557	0.397	0.861	-0.464	5e-14	NA	Hypomethylated in FP vs FN
cg13637654	0.146	0.682	-0.536	8e-14	NA	Hypomethylated in FP vs FN
cg00785831	0.391	0.872	-0.481	2e-13	NA	Hypomethylated in FP vs FN
cg02102889	0.445	0.796	-0.351	2e-13	SLC7A11	Hypomethylated in FP vs FN
cg17971251	0.394	0.850	-0.456	3e-13	NA	Hypomethylated in FP vs FN
cg13676538	0.586	0.911	-0.325	3e-13	NA	Hypomethylated in FP vs FN
cg10774480	0.504	0.898	-0.394	3e-13	NA	Hypomethylated in FP vs FN
cg04516757	0.259	0.724	-0.465	3e-13	NA	Hypomethylated in FP vs FN
cg02255721	0.534	0.847	-0.313	4e-13	NA	Hypomethylated in FP vs FN
cg25115276	0.464	0.873	-0.410	5e-13	NA	Hypomethylated in FP vs FN
cg23332610	0.514	0.845	-0.331	5e-13	NA	Hypomethylated in FP vs FN
cg14814167	0.284	0.781	-0.497	5e-13	NA	Hypomethylated in FP vs FN
cg15335728	0.475	0.886	-0.410	5e-13	NA	Hypomethylated in FP vs FN
cg00670539	0.438	0.907	-0.469	6e-13	CETN1	Hypomethylated in FP vs FN
cg04767697	0.429	0.796	-0.367	7e-13	NA	Hypomethylated in FP vs FN
cg19784880	0.234	0.743	-0.509	7e-13	NA	Hypomethylated in FP vs FN
cg03082830	0.454	0.867	-0.413	7e-13	NA	Hypomethylated in FP vs FN
cg11959316	0.348	0.833	-0.485	8e-13	NA	Hypomethylated in FP vs FN
cg12936779	0.607	0.882	-0.276	9e-13	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11033588	0.438	0.815	-0.377	1e-12	NA	Hypomethylated in FP vs FN
cg14053575	0.499	0.815	-0.316	1e-12	NA	Hypomethylated in FP vs FN
cg10308611	0.641	0.937	-0.296	1e-12	NA	Hypomethylated in FP vs FN
cg22690339	0.329	0.743	-0.413	1e-12	NA	Hypomethylated in FP vs FN
cg14723032	0.422	0.814	-0.391	1e-12	PITPNM3	Hypomethylated in FP vs FN
cg26986447	0.473	0.843	-0.370	2e-12	NA	Hypomethylated in FP vs FN
cg11995490	0.304	0.657	-0.353	2e-12	NA	Hypomethylated in FP vs FN
cg09162993	0.373	0.755	-0.382	2e-12	NA	Hypomethylated in FP vs FN
cg15082028	0.105	0.566	-0.461	2e-12	NA	Hypomethylated in FP vs FN
cg00637695	0.332	0.758	-0.426	2e-12	NA	Hypomethylated in FP vs FN
cg08605773	0.481	0.800	-0.319	3e-12	NA	Hypomethylated in FP vs FN
cg10513161	0.390	0.756	-0.367	3e-12	NA	Hypomethylated in FP vs FN
cg20916646	0.425	0.841	-0.416	3e-12	NA	Hypomethylated in FP vs FN
cg07661965	0.342	0.799	-0.457	3e-12	NA	Hypomethylated in FP vs FN
cg21840948	0.354	0.806	-0.453	3e-12	NA	Hypomethylated in FP vs FN
cg20731110	0.419	0.918	-0.499	4e-12	CETN1	Hypomethylated in FP vs FN
cg19142054	0.507	0.895	-0.387	4e-12	CETN1	Hypomethylated in FP vs FN
cg02132604	0.435	0.822	-0.387	4e-12	NA	Hypomethylated in FP vs FN
cg07206676	0.334	0.741	-0.407	5e-12	NA	Hypomethylated in FP vs FN
cg08350288	0.166	0.782	-0.616	5e-12	NA	Hypomethylated in FP vs FN
cg03502791	0.241	0.746	-0.505	5e-12	NA	Hypomethylated in FP vs FN
cg25112643	0.351	0.741	-0.389	5e-12	NA	Hypomethylated in FP vs FN
cg00737571	0.315	0.762	-0.447	5e-12	NA	Hypomethylated in FP vs FN
cg18323018	0.563	0.860	-0.298	7e-12	NA	Hypomethylated in FP vs FN
cg01564640	0.371	0.896	-0.525	8e-12	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04349839	0.408	0.865	-0.457	9e-12	NA	Hypomethylated in FP vs FN
cg13845049	0.401	0.835	-0.434	1e-11	NA	Hypomethylated in FP vs FN
cg10884539	0.317	0.704	-0.387	1e-11	MYLK4	Hypomethylated in FP vs FN
cg25316172	0.405	0.828	-0.424	1e-11	CYFIP2	Hypomethylated in FP vs FN
cg22906113	0.538	0.888	-0.350	1e-11	NA	Hypomethylated in FP vs FN
cg13890451	0.218	0.707	-0.489	1e-11	NA	Hypomethylated in FP vs FN
cg08571020	0.401	0.781	-0.380	1e-11	C10orf62	Hypomethylated in FP vs FN
cg07289841	0.463	0.826	-0.362	1e-11	NA	Hypomethylated in FP vs FN
cg03388445	0.498	0.851	-0.353	1e-11	NA	Hypomethylated in FP vs FN
cg14126884	0.332	0.769	-0.437	1e-11	NA	Hypomethylated in FP vs FN
cg24070990	0.270	0.611	-0.342	1e-11	NA	Hypomethylated in FP vs FN
cg19098465	0.451	0.869	-0.418	1e-11	NA	Hypomethylated in FP vs FN
cg10711528	0.460	0.802	-0.342	2e-11	NA	Hypomethylated in FP vs FN
cg14692453	0.463	0.829	-0.366	2e-11	NA	Hypomethylated in FP vs FN
cg01398428	0.463	0.848	-0.385	2e-11	NA	Hypomethylated in FP vs FN
cg01780685	0.551	0.870	-0.319	2e-11	NA	Hypomethylated in FP vs FN
cg07500957	0.420	0.836	-0.416	2e-11	NA	Hypomethylated in FP vs FN
cg11366683	0.349	0.790	-0.441	2e-11	NA	Hypomethylated in FP vs FN
cg15685223	0.317	0.753	-0.436	2e-11	NA	Hypomethylated in FP vs FN
cg17337091	0.508	0.795	-0.287	2e-11	NA	Hypomethylated in FP vs FN
cg17389077	0.319	0.737	-0.418	2e-11	NA	Hypomethylated in FP vs FN
cg03060986	0.470	0.798	-0.327	2e-11	NA	Hypomethylated in FP vs FN
cg16412000	0.489	0.852	-0.363	2e-11	NA	Hypomethylated in FP vs FN
cg00355286	0.317	0.758	-0.441	2e-11	NA	Hypomethylated in FP vs FN
cg04914198	0.384	0.790	-0.405	2e-11	PPFIA4	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08976646	0.397	0.856	-0.459	2e-11	NA	Hypomethylated in FP vs FN
cg23100428	0.309	0.742	-0.433	3e-11	NA	Hypomethylated in FP vs FN
cg02320980	0.166	0.691	-0.525	3e-11	NA	Hypomethylated in FP vs FN
cg00794881	0.144	0.713	-0.569	3e-11	NA	Hypomethylated in FP vs FN
cg21579294	0.404	0.755	-0.351	3e-11	NA	Hypomethylated in FP vs FN
cg25281849	0.414	0.781	-0.367	3e-11	NA	Hypomethylated in FP vs FN
cg16483326	0.414	0.813	-0.399	3e-11	NA	Hypomethylated in FP vs FN
cg01475008	0.582	0.864	-0.281	3e-11	NA	Hypomethylated in FP vs FN
cg01352551	0.561	0.844	-0.283	3e-11	SLC24A3	Hypomethylated in FP vs FN
cg07894586	0.463	0.821	-0.358	3e-11	NA	Hypomethylated in FP vs FN
cg18931850	0.467	0.783	-0.316	3e-11	NA	Hypomethylated in FP vs FN
cg18098187	0.352	0.766	-0.414	3e-11	NA	Hypomethylated in FP vs FN
cg00399027	0.398	0.829	-0.431	3e-11	NA	Hypomethylated in FP vs FN
cg24598973	0.359	0.757	-0.398	4e-11	NA	Hypomethylated in FP vs FN
cg24092282	0.369	0.772	-0.404	4e-11	NA	Hypomethylated in FP vs FN
cg01514831	0.379	0.845	-0.467	4e-11	NA	Hypomethylated in FP vs FN
cg19672751	0.449	0.838	-0.388	4e-11	NA	Hypomethylated in FP vs FN
cg16061656	0.607	0.874	-0.267	4e-11	NA	Hypomethylated in FP vs FN
cg13984005	0.485	0.802	-0.317	4e-11	NA	Hypomethylated in FP vs FN
cg26147935	0.508	0.848	-0.340	5e-11	NA	Hypomethylated in FP vs FN
cg23300509	0.530	0.871	-0.341	5e-11	NA	Hypomethylated in FP vs FN
cg18804920	0.319	0.719	-0.400	5e-11	NA	Hypomethylated in FP vs FN
cg03553758	0.422	0.816	-0.394	5e-11	NA	Hypomethylated in FP vs FN
cg05303999	0.414	0.834	-0.421	5e-11	NA	Hypomethylated in FP vs FN
cg01904151	0.545	0.855	-0.310	5e-11	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05775517	0.453	0.811	-0.358	5e-11	NA	Hypomethylated in FP vs FN
cg09688726	0.417	0.738	-0.322	5e-11	NA	Hypomethylated in FP vs FN
cg01794853	0.386	0.716	-0.330	5e-11	HSPG2	Hypomethylated in FP vs FN
cg07009284	0.354	0.791	-0.436	5e-11	NA	Hypomethylated in FP vs FN
cg05327931	0.518	0.845	-0.326	6e-11	NA	Hypomethylated in FP vs FN
cg17526145	0.507	0.839	-0.331	7e-11	NA	Hypomethylated in FP vs FN
cg06754496	0.435	0.801	-0.366	7e-11	NA	Hypomethylated in FP vs FN
cg23951305	0.482	0.900	-0.418	7e-11	NA	Hypomethylated in FP vs FN
cg13319468	0.394	0.794	-0.400	8e-11	NA	Hypomethylated in FP vs FN
cg15773539	0.276	0.627	-0.350	8e-11	NA	Hypomethylated in FP vs FN
cg06347896	0.393	0.827	-0.434	8e-11	NA	Hypomethylated in FP vs FN
cg21597487	0.490	0.845	-0.356	8e-11	NA	Hypomethylated in FP vs FN
cg06200092	0.224	0.756	-0.533	8e-11	NA	Hypomethylated in FP vs FN
cg24150325	0.424	0.814	-0.390	1e-10	NA	Hypomethylated in FP vs FN
cg26450275	0.420	0.822	-0.401	1e-10	NA	Hypomethylated in FP vs FN
cg19879906	0.356	0.754	-0.398	1e-10	NA	Hypomethylated in FP vs FN
cg25145680	0.387	0.877	-0.490	1e-10	NA	Hypomethylated in FP vs FN
cg14539422	0.255	0.634	-0.378	1e-10	RGS3	Hypomethylated in FP vs FN
cg06295784	0.403	0.753	-0.350	1e-10	NA	Hypomethylated in FP vs FN
cg21902772	0.420	0.754	-0.334	1e-10	RARB	Hypomethylated in FP vs FN
cg16852704	0.166	0.665	-0.499	1e-10	NA	Hypomethylated in FP vs FN
cg14953730	0.414	0.788	-0.374	1e-10	NA	Hypomethylated in FP vs FN
cg02522760	0.375	0.864	-0.489	1e-10	NA	Hypomethylated in FP vs FN
cg10335736	0.349	0.809	-0.461	1e-10	NA	Hypomethylated in FP vs FN
cg21570843	0.382	0.822	-0.439	1e-10	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26787863	0.388	0.780	-0.392	1e-10	NA	Hypomethylated in FP vs FN
cg08796342	0.353	0.795	-0.442	1e-10	TC2N	Hypomethylated in FP vs FN
cg08946995	0.398	0.818	-0.420	1e-10	NA	Hypomethylated in FP vs FN
cg24872571	0.474	0.855	-0.381	1e-10	NA	Hypomethylated in FP vs FN
cg22765117	0.395	0.763	-0.368	1e-10	NA	Hypomethylated in FP vs FN
cg22973319	0.114	0.625	-0.511	1e-10	NA	Hypomethylated in FP vs FN
cg21244322	0.190	0.682	-0.492	1e-10	NA	Hypomethylated in FP vs FN
cg06338958	0.394	0.804	-0.410	2e-10	NA	Hypomethylated in FP vs FN
cg27154660	0.342	0.696	-0.354	2e-10	NA	Hypomethylated in FP vs FN
cg18387985	0.530	0.865	-0.336	2e-10	NA	Hypomethylated in FP vs FN
cg06846458	0.398	0.807	-0.409	2e-10	SLC25A29	Hypomethylated in FP vs FN
cg06765552	0.107	0.667	-0.560	2e-10	NA	Hypomethylated in FP vs FN
cg04462567	0.484	0.851	-0.366	2e-10	NA	Hypomethylated in FP vs FN
cg25692002	0.445	0.861	-0.417	2e-10	NA	Hypomethylated in FP vs FN
cg04545872	0.401	0.848	-0.446	2e-10	NA	Hypomethylated in FP vs FN
cg20682573	0.532	0.834	-0.301	2e-10	NA	Hypomethylated in FP vs FN
cg01872216	0.130	0.706	-0.576	2e-10	NA	Hypomethylated in FP vs FN
cg01871526	0.490	0.824	-0.334	2e-10	NA	Hypomethylated in FP vs FN
cg16092370	0.474	0.847	-0.373	2e-10	NA	Hypomethylated in FP vs FN
cg04967009	0.522	0.879	-0.357	2e-10	NA	Hypomethylated in FP vs FN
cg26516446	0.532	0.881	-0.348	2e-10	NA	Hypomethylated in FP vs FN
cg17576603	0.460	0.861	-0.400	2e-10	NA	Hypomethylated in FP vs FN
cg07711036	0.556	0.864	-0.308	2e-10	MIR218-1	Hypomethylated in FP vs FN
cg16341266	0.404	0.814	-0.410	2e-10	MIR548I4	Hypomethylated in FP vs FN
cg16822407	0.307	0.646	-0.339	2e-10	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05750926	0.269	0.736	-0.467	2e-10	NA	Hypomethylated in FP vs FN
cg07325692	0.338	0.820	-0.482	2e-10	NA	Hypomethylated in FP vs FN
cg06464468	0.540	0.839	-0.300	2e-10	NA	Hypomethylated in FP vs FN
cg26978064	0.239	0.690	-0.451	2e-10	NA	Hypomethylated in FP vs FN
cg09127472	0.353	0.759	-0.407	2e-10	NA	Hypomethylated in FP vs FN
cg14291693	0.433	0.778	-0.345	2e-10	NA	Hypomethylated in FP vs FN
cg19132360	0.384	0.761	-0.377	2e-10	OTOR	Hypomethylated in FP vs FN
cg13204673	0.455	0.795	-0.340	2e-10	NA	Hypomethylated in FP vs FN
cg20655099	0.419	0.759	-0.340	2e-10	NA	Hypomethylated in FP vs FN
cg13805001	0.324	0.640	-0.316	2e-10	NA	Hypomethylated in FP vs FN
cg22842189	0.369	0.791	-0.422	3e-10	NA	Hypomethylated in FP vs FN
cg25734842	0.157	0.621	-0.463	3e-10	NA	Hypomethylated in FP vs FN
cg12806728	0.379	0.774	-0.395	3e-10	NA	Hypomethylated in FP vs FN
cg20412217	0.396	0.804	-0.408	3e-10	NA	Hypomethylated in FP vs FN
cg05982301	0.296	0.688	-0.391	3e-10	NA	Hypomethylated in FP vs FN
cg18835865	0.485	0.813	-0.329	3e-10	NA	Hypomethylated in FP vs FN
cg20373635	0.231	0.684	-0.452	3e-10	NA	Hypomethylated in FP vs FN
cg12720921	0.320	0.679	-0.359	3e-10	NA	Hypomethylated in FP vs FN
cg12808194	0.413	0.802	-0.389	3e-10	NA	Hypomethylated in FP vs FN
cg02575712	0.147	0.648	-0.502	3e-10	NA	Hypomethylated in FP vs FN
cg04751839	0.366	0.751	-0.385	3e-10	NA	Hypomethylated in FP vs FN
cg06586578	0.388	0.821	-0.433	3e-10	NA	Hypomethylated in FP vs FN
cg25856632	0.348	0.791	-0.443	3e-10	NA	Hypomethylated in FP vs FN
cg04030444	0.517	0.885	-0.367	3e-10	NA	Hypomethylated in FP vs FN
cg13699414	0.140	0.678	-0.538	3e-10	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26281310	0.584	0.865	-0.281	3e-10	NA	Hypomethylated in FP vs FN
cg00869582	0.545	0.854	-0.309	3e-10	NA	Hypomethylated in FP vs FN
cg05612654	0.451	0.841	-0.390	3e-10	NA	Hypomethylated in FP vs FN
cg20696698	0.442	0.799	-0.357	3e-10	NA	Hypomethylated in FP vs FN
cg17202331	0.477	0.867	-0.389	3e-10	BTBD3	Hypomethylated in FP vs FN
cg14780990	0.338	0.735	-0.397	4e-10	NA	Hypomethylated in FP vs FN
cg02418175	0.334	0.760	-0.426	4e-10	NA	Hypomethylated in FP vs FN
cg26446832	0.386	0.768	-0.382	4e-10	NA	Hypomethylated in FP vs FN
cg13034825	0.525	0.886	-0.361	4e-10	NA	Hypomethylated in FP vs FN
cg25921543	0.288	0.727	-0.438	4e-10	NA	Hypomethylated in FP vs FN
cg15638338	0.514	0.836	-0.322	4e-10	NA	Hypomethylated in FP vs FN
cg25739142	0.421	0.788	-0.367	4e-10	NA	Hypomethylated in FP vs FN
cg25449821	0.415	0.748	-0.333	4e-10	NA	Hypomethylated in FP vs FN
cg27538859	0.405	0.784	-0.379	4e-10	NA	Hypomethylated in FP vs FN
cg22807241	0.488	0.793	-0.305	4e-10	NA	Hypomethylated in FP vs FN
cg12565679	0.444	0.839	-0.394	4e-10	NA	Hypomethylated in FP vs FN
cg20122645	0.499	0.857	-0.359	4e-10	NA	Hypomethylated in FP vs FN
cg02370877	0.285	0.715	-0.429	4e-10	NA	Hypomethylated in FP vs FN
cg00330492	0.113	0.602	-0.489	4e-10	NA	Hypomethylated in FP vs FN
cg26315862	0.104	0.677	-0.573	4e-10	NA	Hypomethylated in FP vs FN
cg11108115	0.374	0.818	-0.444	4e-10	NA	Hypomethylated in FP vs FN
cg09512004	0.436	0.814	-0.378	4e-10	NA	Hypomethylated in FP vs FN
cg04864600	0.524	0.897	-0.373	4e-10	NA	Hypomethylated in FP vs FN
cg08105005	0.471	0.843	-0.372	5e-10	NA	Hypomethylated in FP vs FN
cg13397568	0.305	0.723	-0.418	5e-10	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03264693	0.399	0.781	-0.383	5e-10	NA	Hypomethylated in FP vs FN
cg02077256	0.369	0.729	-0.361	5e-10	NA	Hypomethylated in FP vs FN
cg13466253	0.566	0.852	-0.285	5e-10	NA	Hypomethylated in FP vs FN
cg24322623	0.108	0.479	-0.371	5e-10	MYOD1	Hypomethylated in FP vs FN
cg10893667	0.400	0.803	-0.402	5e-10	C5orf13	Hypomethylated in FP vs FN
cg08836353	0.367	0.750	-0.384	5e-10	SLC7A9	Hypomethylated in FP vs FN
cg14970991	0.297	0.742	-0.446	5e-10	NA	Hypomethylated in FP vs FN
cg18461635	0.508	0.848	-0.339	5e-10	NA	Hypomethylated in FP vs FN
cg15205636	0.076	0.593	-0.517	5e-10	NA	Hypomethylated in FP vs FN
cg00513981	0.423	0.761	-0.338	5e-10	NA	Hypomethylated in FP vs FN
cg03639429	0.433	0.783	-0.350	5e-10	NA	Hypomethylated in FP vs FN
cg21196708	0.505	0.839	-0.334	5e-10	NA	Hypomethylated in FP vs FN
cg23072051	0.394	0.786	-0.392	5e-10	NA	Hypomethylated in FP vs FN
cg22265273	0.433	0.875	-0.443	5e-10	CETN1	Hypomethylated in FP vs FN
cg00569056	0.496	0.849	-0.354	5e-10	NA	Hypomethylated in FP vs FN
cg26635576	0.478	0.864	-0.386	5e-10	NA	Hypomethylated in FP vs FN
cg04928293	0.592	0.851	-0.259	5e-10	NA	Hypomethylated in FP vs FN
cg01710084	0.386	0.800	-0.414	5e-10	NA	Hypomethylated in FP vs FN
cg20165037	0.316	0.772	-0.456	5e-10	NA	Hypomethylated in FP vs FN
cg22510376	0.162	0.707	-0.545	5e-10	NA	Hypomethylated in FP vs FN
cg13153808	0.475	0.824	-0.349	5e-10	NA	Hypomethylated in FP vs FN
cg14497697	0.344	0.766	-0.423	6e-10	NA	Hypomethylated in FP vs FN
cg10163299	0.382	0.766	-0.384	6e-10	OTOR	Hypomethylated in FP vs FN
cg03294458	0.126	0.564	-0.438	6e-10	NA	Hypomethylated in FP vs FN
cg09975093	0.572	0.884	-0.312	6e-10	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15184781	0.417	0.784	-0.367	6e-10	NA	Hypomethylated in FP vs FN
cg00797152	0.435	0.745	-0.310	6e-10	CALML5	Hypomethylated in FP vs FN
cg14124132	0.611	0.888	-0.277	6e-10	C12orf70	Hypomethylated in FP vs FN
cg10230257	0.549	0.849	-0.300	6e-10	NA	Hypomethylated in FP vs FN
cg08651538	0.359	0.766	-0.407	6e-10	NA	Hypomethylated in FP vs FN
cg16699540	0.428	0.761	-0.332	6e-10	NA	Hypomethylated in FP vs FN
cg05205299	0.441	0.801	-0.359	6e-10	NA	Hypomethylated in FP vs FN
cg09423651	0.566	0.866	-0.300	6e-10	NA	Hypomethylated in FP vs FN
cg21228259	0.365	0.859	-0.494	6e-10	NA	Hypomethylated in FP vs FN
cg15637234	0.568	0.874	-0.306	7e-10	NA	Hypomethylated in FP vs FN
cg24600706	0.240	0.700	-0.460	7e-10	NA	Hypomethylated in FP vs FN
cg18485872	0.521	0.819	-0.297	7e-10	NEU4	Hypomethylated in FP vs FN
cg20951825	0.416	0.773	-0.357	7e-10	NA	Hypomethylated in FP vs FN
cg14372792	0.335	0.706	-0.372	7e-10	NA	Hypomethylated in FP vs FN
cg05289897	0.412	0.868	-0.456	7e-10	NA	Hypomethylated in FP vs FN
cg11054936	0.255	0.697	-0.442	7e-10	NA	Hypomethylated in FP vs FN
cg09358961	0.517	0.898	-0.381	7e-10	NA	Hypomethylated in FP vs FN
cg21545013	0.489	0.784	-0.295	7e-10	NA	Hypomethylated in FP vs FN
cg21185289	0.050	0.656	-0.606	8e-10	NA	Hypomethylated in FP vs FN
cg06810231	0.449	0.774	-0.325	8e-10	NA	Hypomethylated in FP vs FN
cg27302539	0.178	0.674	-0.496	8e-10	NA	Hypomethylated in FP vs FN
cg11435651	0.451	0.840	-0.389	8e-10	NA	Hypomethylated in FP vs FN
cg22803642	0.336	0.679	-0.343	8e-10	NA	Hypomethylated in FP vs FN
cg14087401	0.473	0.758	-0.284	9e-10	NA	Hypomethylated in FP vs FN
cg13829804	0.559	0.861	-0.302	9e-10	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04156643	0.486	0.810	-0.324	9e-10	NA	Hypomethylated in FP vs FN
cg11936311	0.256	0.752	-0.496	9e-10	NA	Hypomethylated in FP vs FN
cg05043557	0.154	0.541	-0.386	9e-10	PITPNM3	Hypomethylated in FP vs FN
cg00126173	0.503	0.789	-0.287	9e-10	NA	Hypomethylated in FP vs FN
cg21489565	0.293	0.736	-0.442	9e-10	NA	Hypomethylated in FP vs FN
cg02186748	0.306	0.746	-0.440	9e-10	COL1A1	Hypomethylated in FP vs FN
cg18919209	0.409	0.823	-0.414	9e-10	NA	Hypomethylated in FP vs FN
cg22427313	0.431	0.822	-0.391	9e-10	NA	Hypomethylated in FP vs FN
cg23206822	0.407	0.758	-0.351	9e-10	NA	Hypomethylated in FP vs FN
cg26869506	0.297	0.851	-0.554	1e-09	NA	Hypomethylated in FP vs FN
cg25013838	0.513	0.836	-0.323	1e-09	MYO18B	Hypomethylated in FP vs FN
cg16530165	0.346	0.757	-0.411	1e-09	NPPC	Hypomethylated in FP vs FN
cg19399514	0.292	0.678	-0.385	1e-09	NA	Hypomethylated in FP vs FN
cg17978037	0.626	0.888	-0.262	1e-09	NA	Hypomethylated in FP vs FN
cg03899510	0.363	0.755	-0.392	1e-09	NA	Hypomethylated in FP vs FN
cg19107055	0.492	0.856	-0.364	1e-09	NA	Hypomethylated in FP vs FN
cg04487600	0.582	0.870	-0.288	1e-09	NA	Hypomethylated in FP vs FN
cg21582785	0.372	0.770	-0.399	1e-09	NA	Hypomethylated in FP vs FN
cg07092145	0.468	0.810	-0.342	1e-09	NA	Hypomethylated in FP vs FN
cg20915632	0.132	0.583	-0.451	1e-09	NA	Hypomethylated in FP vs FN
cg02028758	0.507	0.847	-0.340	1e-09	NA	Hypomethylated in FP vs FN
cg17112695	0.390	0.756	-0.366	1e-09	NA	Hypomethylated in FP vs FN
cg08023416	0.283	0.732	-0.449	1e-09	NA	Hypomethylated in FP vs FN
cg25383593	0.189	0.518	-0.329	1e-09	NA	Hypomethylated in FP vs FN
cg00356645	0.521	0.868	-0.347	1e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03768338	0.437	0.802	-0.364	1e-09	NA	Hypomethylated in FP vs FN
cg24290546	0.438	0.787	-0.349	1e-09	NA	Hypomethylated in FP vs FN
cg19621008	0.479	0.887	-0.408	1e-09	NA	Hypomethylated in FP vs FN
cg01987333	0.368	0.757	-0.390	1e-09	NEU4	Hypomethylated in FP vs FN
cg03674552	0.603	0.862	-0.260	1e-09	NA	Hypomethylated in FP vs FN
cg17201542	0.488	0.822	-0.334	1e-09	NA	Hypomethylated in FP vs FN
cg13540952	0.493	0.796	-0.304	1e-09	NA	Hypomethylated in FP vs FN
cg24232092	0.565	0.855	-0.291	1e-09	NA	Hypomethylated in FP vs FN
cg02252421	0.245	0.631	-0.386	1e-09	NA	Hypomethylated in FP vs FN
cg15315385	0.277	0.712	-0.435	1e-09	NA	Hypomethylated in FP vs FN
cg11459133	0.506	0.850	-0.344	1e-09	NA	Hypomethylated in FP vs FN
cg14005246	0.210	0.762	-0.552	1e-09	NA	Hypomethylated in FP vs FN
cg26716902	0.152	0.658	-0.506	1e-09	NA	Hypomethylated in FP vs FN
cg07037112	0.177	0.620	-0.443	1e-09	NA	Hypomethylated in FP vs FN
cg15261730	0.369	0.719	-0.349	1e-09	NA	Hypomethylated in FP vs FN
cg00832581	0.381	0.778	-0.396	1e-09	NA	Hypomethylated in FP vs FN
cg04642300	0.273	0.661	-0.388	1e-09	NA	Hypomethylated in FP vs FN
cg21473407	0.412	0.763	-0.351	1e-09	NA	Hypomethylated in FP vs FN
cg00407866	0.369	0.791	-0.422	1e-09	NA	Hypomethylated in FP vs FN
cg12467960	0.516	0.864	-0.349	2e-09	NA	Hypomethylated in FP vs FN
cg19998012	0.501	0.811	-0.310	2e-09	NA	Hypomethylated in FP vs FN
cg05556038	0.510	0.830	-0.319	2e-09	NA	Hypomethylated in FP vs FN
cg10909790	0.490	0.766	-0.276	2e-09	NA	Hypomethylated in FP vs FN
cg04722955	0.552	0.880	-0.329	2e-09	NA	Hypomethylated in FP vs FN
cg10555744	0.326	0.684	-0.359	2e-09	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21080473	0.444	0.853	-0.409	2e-09	NA	Hypomethylated in FP vs FN
cg11207081	0.521	0.873	-0.352	2e-09	NA	Hypomethylated in FP vs FN
cg18963509	0.282	0.728	-0.446	2e-09	NA	Hypomethylated in FP vs FN
cg06246000	0.449	0.842	-0.392	2e-09	NA	Hypomethylated in FP vs FN
cg02113604	0.498	0.845	-0.347	2e-09	NA	Hypomethylated in FP vs FN
cg08175352	0.401	0.806	-0.405	2e-09	NA	Hypomethylated in FP vs FN
cg01403058	0.346	0.733	-0.387	2e-09	NA	Hypomethylated in FP vs FN
cg19453686	0.451	0.833	-0.383	2e-09	TC2N	Hypomethylated in FP vs FN
cg05750618	0.500	0.849	-0.349	2e-09	NA	Hypomethylated in FP vs FN
cg22504523	0.421	0.755	-0.334	2e-09	NA	Hypomethylated in FP vs FN
cg02692177	0.311	0.680	-0.369	2e-09	NA	Hypomethylated in FP vs FN
cg06989443	0.324	0.731	-0.407	2e-09	NA	Hypomethylated in FP vs FN
cg01806859	0.516	0.833	-0.317	2e-09	NA	Hypomethylated in FP vs FN
cg17472800	0.331	0.816	-0.485	2e-09	NA	Hypomethylated in FP vs FN
cg20594316	0.360	0.784	-0.424	2e-09	NA	Hypomethylated in FP vs FN
cg12992268	0.306	0.804	-0.498	2e-09	NA	Hypomethylated in FP vs FN
cg00817464	0.434	0.841	-0.407	2e-09	NA	Hypomethylated in FP vs FN
cg02165692	0.387	0.838	-0.451	2e-09	NA	Hypomethylated in FP vs FN
cg19824396	0.197	0.564	-0.367	2e-09	PPFIA4	Hypomethylated in FP vs FN
cg23625341	0.473	0.867	-0.394	2e-09	NA	Hypomethylated in FP vs FN
cg06186245	0.300	0.725	-0.425	2e-09	NA	Hypomethylated in FP vs FN
cg22797169	0.385	0.779	-0.394	2e-09	IL1RL2	Hypomethylated in FP vs FN
cg08181402	0.351	0.680	-0.329	2e-09	C16orf91	Hypomethylated in FP vs FN
cg00936348	0.386	0.701	-0.315	2e-09	NA	Hypomethylated in FP vs FN
cg02995013	0.419	0.742	-0.322	2e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12842552	0.356	0.786	-0.430	2e-09	IGSF10	Hypomethylated in FP vs FN
cg17678224	0.444	0.815	-0.371	2e-09	NA	Hypomethylated in FP vs FN
cg20343048	0.245	0.680	-0.435	2e-09	CLIC6	Hypomethylated in FP vs FN
cg09387528	0.474	0.813	-0.338	2e-09	NA	Hypomethylated in FP vs FN
cg13747137	0.606	0.885	-0.279	2e-09	NA	Hypomethylated in FP vs FN
cg02545885	0.559	0.846	-0.287	2e-09	NA	Hypomethylated in FP vs FN
cg18011760	0.441	0.812	-0.370	2e-09	NA	Hypomethylated in FP vs FN
cg07055769	0.416	0.811	-0.395	2e-09	NA	Hypomethylated in FP vs FN
cg20218614	0.294	0.698	-0.403	3e-09	FAM83A	Hypomethylated in FP vs FN
cg16693201	0.341	0.676	-0.335	3e-09	NA	Hypomethylated in FP vs FN
cg01812499	0.511	0.865	-0.354	3e-09	NA	Hypomethylated in FP vs FN
cg19316647	0.567	0.863	-0.296	3e-09	NA	Hypomethylated in FP vs FN
cg02246725	0.353	0.637	-0.284	3e-09	NA	Hypomethylated in FP vs FN
cg24131452	0.334	0.799	-0.465	3e-09	NA	Hypomethylated in FP vs FN
cg05631625	0.440	0.858	-0.418	3e-09	NA	Hypomethylated in FP vs FN
cg27158519	0.408	0.771	-0.363	3e-09	NA	Hypomethylated in FP vs FN
cg05835241	0.385	0.699	-0.314	3e-09	NA	Hypomethylated in FP vs FN
cg16288579	0.371	0.804	-0.433	3e-09	NA	Hypomethylated in FP vs FN
cg15934607	0.335	0.755	-0.420	3e-09	NA	Hypomethylated in FP vs FN
cg17974054	0.516	0.806	-0.290	3e-09	NA	Hypomethylated in FP vs FN
cg06410158	0.369	0.725	-0.357	3e-09	NA	Hypomethylated in FP vs FN
cg19360930	0.544	0.849	-0.305	3e-09	NA	Hypomethylated in FP vs FN
cg24997330	0.504	0.836	-0.331	3e-09	NA	Hypomethylated in FP vs FN
cg12224508	0.156	0.481	-0.326	3e-09	NA	Hypomethylated in FP vs FN
cg20962215	0.311	0.618	-0.307	3e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20559634	0.205	0.476	-0.271	3e-09	NA	Hypomethylated in FP vs FN
cg21692620	0.164	0.610	-0.446	3e-09	NA	Hypomethylated in FP vs FN
cg01511828	0.315	0.780	-0.465	3e-09	CCBE1	Hypomethylated in FP vs FN
cg01454947	0.485	0.823	-0.338	3e-09	NA	Hypomethylated in FP vs FN
cg17545346	0.233	0.695	-0.462	3e-09	NA	Hypomethylated in FP vs FN
cg11177552	0.433	0.801	-0.368	3e-09	NA	Hypomethylated in FP vs FN
cg23470262	0.501	0.809	-0.308	3e-09	NA	Hypomethylated in FP vs FN
cg03723247	0.335	0.717	-0.382	3e-09	NA	Hypomethylated in FP vs FN
cg26786382	0.362	0.744	-0.382	3e-09	LRRC10B	Hypomethylated in FP vs FN
cg14601621	0.420	0.849	-0.430	3e-09	NA	Hypomethylated in FP vs FN
cg17857870	0.274	0.712	-0.438	3e-09	NA	Hypomethylated in FP vs FN
cg22987457	0.574	0.872	-0.298	3e-09	NA	Hypomethylated in FP vs FN
cg26673396	0.364	0.625	-0.261	3e-09	C15orf37	Hypomethylated in FP vs FN
cg00106093	0.571	0.884	-0.313	3e-09	NA	Hypomethylated in FP vs FN
cg17547864	0.316	0.747	-0.431	3e-09	NA	Hypomethylated in FP vs FN
cg20299399	0.403	0.715	-0.312	3e-09	NA	Hypomethylated in FP vs FN
cg11185904	0.442	0.735	-0.293	3e-09	NA	Hypomethylated in FP vs FN
cg25561762	0.309	0.738	-0.429	3e-09	NA	Hypomethylated in FP vs FN
cg02086690	0.432	0.809	-0.377	3e-09	NA	Hypomethylated in FP vs FN
cg14831539	0.239	0.559	-0.319	3e-09	NA	Hypomethylated in FP vs FN
cg06250886	0.508	0.839	-0.331	3e-09	NA	Hypomethylated in FP vs FN
cg16789849	0.361	0.689	-0.328	3e-09	NA	Hypomethylated in FP vs FN
cg02921904	0.558	0.861	-0.303	3e-09	NA	Hypomethylated in FP vs FN
cg25691026	0.588	0.872	-0.284	3e-09	NA	Hypomethylated in FP vs FN
cg11474864	0.226	0.709	-0.484	3e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04348023	0.336	0.704	-0.368	4e-09	PIN1L	Hypomethylated in FP vs FN
cg24748448	0.494	0.874	-0.381	4e-09	NA	Hypomethylated in FP vs FN
cg00869989	0.291	0.797	-0.506	4e-09	NA	Hypomethylated in FP vs FN
cg02148034	0.103	0.480	-0.376	4e-09	NA	Hypomethylated in FP vs FN
cg00803827	0.259	0.697	-0.438	4e-09	NA	Hypomethylated in FP vs FN
cg05201300	0.314	0.713	-0.399	4e-09	NA	Hypomethylated in FP vs FN
cg25513740	0.503	0.862	-0.360	4e-09	NA	Hypomethylated in FP vs FN
cg01602621	0.288	0.750	-0.462	4e-09	ACP5	Hypomethylated in FP vs FN
cg00352031	0.335	0.679	-0.344	4e-09	CREB3L1	Hypomethylated in FP vs FN
cg18709737	0.425	0.828	-0.403	4e-09	NA	Hypomethylated in FP vs FN
cg04942107	0.457	0.827	-0.370	4e-09	NA	Hypomethylated in FP vs FN
cg15288350	0.574	0.830	-0.256	4e-09	NA	Hypomethylated in FP vs FN
cg13692655	0.450	0.736	-0.286	4e-09	FAM102A	Hypomethylated in FP vs FN
cg08180831	0.440	0.794	-0.354	4e-09	NA	Hypomethylated in FP vs FN
cg02102771	0.245	0.556	-0.311	4e-09	NA	Hypomethylated in FP vs FN
cg24831140	0.380	0.755	-0.374	4e-09	NA	Hypomethylated in FP vs FN
cg08986840	0.359	0.631	-0.272	4e-09	NA	Hypomethylated in FP vs FN
cg22592142	0.193	0.680	-0.487	4e-09	NA	Hypomethylated in FP vs FN
cg12945054	0.457	0.778	-0.322	4e-09	NA	Hypomethylated in FP vs FN
cg06617528	0.391	0.808	-0.416	4e-09	NA	Hypomethylated in FP vs FN
cg11933693	0.227	0.608	-0.381	4e-09	NA	Hypomethylated in FP vs FN
cg21832906	0.238	0.504	-0.266	4e-09	NA	Hypomethylated in FP vs FN
cg05883269	0.564	0.862	-0.298	4e-09	NA	Hypomethylated in FP vs FN
cg00747342	0.511	0.858	-0.347	5e-09	NA	Hypomethylated in FP vs FN
cg11181726	0.378	0.740	-0.362	5e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15576082	0.485	0.824	-0.339	5e-09	NA	Hypomethylated in FP vs FN
cg17953646	0.407	0.786	-0.379	5e-09	NA	Hypomethylated in FP vs FN
cg05845879	0.405	0.843	-0.438	5e-09	NA	Hypomethylated in FP vs FN
cg02910494	0.515	0.846	-0.331	5e-09	NA	Hypomethylated in FP vs FN
cg20507742	0.458	0.844	-0.387	5e-09	NA	Hypomethylated in FP vs FN
cg15245520	0.605	0.913	-0.308	5e-09	NA	Hypomethylated in FP vs FN
cg14080888	0.358	0.672	-0.314	5e-09	FAM102A	Hypomethylated in FP vs FN
cg20814179	0.331	0.707	-0.376	5e-09	NA	Hypomethylated in FP vs FN
cg25500616	0.507	0.819	-0.312	5e-09	NA	Hypomethylated in FP vs FN
cg20137237	0.122	0.629	-0.507	5e-09	NA	Hypomethylated in FP vs FN
cg21029167	0.539	0.879	-0.340	5e-09	NA	Hypomethylated in FP vs FN
cg08652487	0.112	0.537	-0.425	5e-09	ACTA1	Hypomethylated in FP vs FN
cg05769086	0.405	0.764	-0.360	5e-09	NA	Hypomethylated in FP vs FN
cg17407813	0.521	0.799	-0.279	5e-09	NA	Hypomethylated in FP vs FN
cg05277425	0.325	0.687	-0.362	5e-09	NA	Hypomethylated in FP vs FN
cg05942111	0.535	0.838	-0.302	5e-09	NA	Hypomethylated in FP vs FN
cg17831002	0.126	0.412	-0.287	5e-09	TMEM91	Hypomethylated in FP vs FN
cg24453600	0.496	0.827	-0.331	5e-09	NA	Hypomethylated in FP vs FN
cg00530825	0.541	0.880	-0.339	5e-09	NA	Hypomethylated in FP vs FN
cg23627948	0.341	0.712	-0.371	6e-09	NA	Hypomethylated in FP vs FN
cg25911257	0.551	0.860	-0.309	6e-09	NA	Hypomethylated in FP vs FN
cg27451587	0.391	0.754	-0.363	6e-09	SEC16B	Hypomethylated in FP vs FN
cg25367332	0.504	0.796	-0.292	6e-09	NA	Hypomethylated in FP vs FN
cg03690956	0.470	0.811	-0.341	6e-09	NA	Hypomethylated in FP vs FN
cg09375892	0.577	0.913	-0.336	6e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26804891	0.396	0.714	-0.318	6e-09	NA	Hypomethylated in FP vs FN
cg11176737	0.360	0.736	-0.376	6e-09	KCNA5	Hypomethylated in FP vs FN
cg10113820	0.445	0.865	-0.420	6e-09	NA	Hypomethylated in FP vs FN
cg15969431	0.455	0.799	-0.344	6e-09	NA	Hypomethylated in FP vs FN
cg25729585	0.480	0.858	-0.378	6e-09	MYOG	Hypomethylated in FP vs FN
cg24747537	0.332	0.643	-0.311	6e-09	NA	Hypomethylated in FP vs FN
cg00936935	0.274	0.657	-0.383	6e-09	NA	Hypomethylated in FP vs FN
cg07685180	0.514	0.835	-0.322	6e-09	NA	Hypomethylated in FP vs FN
cg10357909	0.536	0.818	-0.281	6e-09	NA	Hypomethylated in FP vs FN
cg26221342	0.508	0.838	-0.330	6e-09	NA	Hypomethylated in FP vs FN
cg02075590	0.485	0.842	-0.357	6e-09	NA	Hypomethylated in FP vs FN
cg24389488	0.266	0.675	-0.409	6e-09	NA	Hypomethylated in FP vs FN
cg06768437	0.457	0.804	-0.346	6e-09	NA	Hypomethylated in FP vs FN
cg03036398	0.339	0.763	-0.424	6e-09	NA	Hypomethylated in FP vs FN
cg22693055	0.410	0.814	-0.404	6e-09	NA	Hypomethylated in FP vs FN
cg01894895	0.575	0.882	-0.306	6e-09	ANXA1	Hypomethylated in FP vs FN
cg09396676	0.412	0.801	-0.389	6e-09	NA	Hypomethylated in FP vs FN
cg02536026	0.120	0.529	-0.410	7e-09	ARRB1	Hypomethylated in FP vs FN
cg13784017	0.450	0.758	-0.308	7e-09	NA	Hypomethylated in FP vs FN
cg14496282	0.273	0.786	-0.513	7e-09	NA	Hypomethylated in FP vs FN
cg03463994	0.340	0.713	-0.374	7e-09	NA	Hypomethylated in FP vs FN
cg13215862	0.151	0.477	-0.326	7e-09	NA	Hypomethylated in FP vs FN
cg13964030	0.233	0.657	-0.424	7e-09	NA	Hypomethylated in FP vs FN
cg01615861	0.280	0.754	-0.474	7e-09	NA	Hypomethylated in FP vs FN
cg19968840	0.097	0.663	-0.566	7e-09	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17596058	0.467	0.807	-0.340	7e-09	NA	Hypomethylated in FP vs FN
cg00250422	0.133	0.684	-0.551	7e-09	NA	Hypomethylated in FP vs FN
cg04398282	0.318	0.660	-0.342	7e-09	STAP1	Hypomethylated in FP vs FN
cg08326019	0.334	0.819	-0.484	7e-09	NA	Hypomethylated in FP vs FN
cg05247096	0.329	0.756	-0.427	7e-09	NA	Hypomethylated in FP vs FN
cg00575090	0.383	0.733	-0.350	7e-09	NA	Hypomethylated in FP vs FN
cg10077765	0.402	0.811	-0.409	7e-09	NA	Hypomethylated in FP vs FN
cg09505340	0.491	0.844	-0.353	7e-09	NA	Hypomethylated in FP vs FN
cg15770125	0.373	0.669	-0.296	7e-09	C3orf32	Hypomethylated in FP vs FN
cg19183252	0.301	0.735	-0.435	7e-09	NA	Hypomethylated in FP vs FN
cg21597692	0.331	0.726	-0.395	7e-09	NA	Hypomethylated in FP vs FN
cg10888242	0.275	0.699	-0.425	7e-09	NA	Hypomethylated in FP vs FN
cg03814390	0.085	0.579	-0.494	7e-09	NA	Hypomethylated in FP vs FN
cg08860136	0.240	0.648	-0.408	7e-09	NA	Hypomethylated in FP vs FN
cg11584098	0.393	0.743	-0.350	7e-09	NA	Hypomethylated in FP vs FN
cg07285148	0.433	0.842	-0.408	7e-09	NA	Hypomethylated in FP vs FN
cg16475712	0.391	0.742	-0.352	7e-09	NA	Hypomethylated in FP vs FN
cg00518266	0.196	0.473	-0.276	7e-09	NA	Hypomethylated in FP vs FN
cg11633461	0.300	0.601	-0.301	7e-09	C10orf54	Hypomethylated in FP vs FN
cg22846966	0.495	0.843	-0.348	7e-09	NA	Hypomethylated in FP vs FN
cg17796593	0.452	0.779	-0.327	8e-09	NA	Hypomethylated in FP vs FN
cg14823740	0.295	0.710	-0.415	8e-09	NA	Hypomethylated in FP vs FN
cg26220838	0.361	0.675	-0.314	8e-09	NA	Hypomethylated in FP vs FN
cg01961211	0.539	0.852	-0.313	8e-09	NA	Hypomethylated in FP vs FN
cg07867517	0.319	0.709	-0.389	8e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15083845	0.335	0.742	-0.407	8e-09	SLC12A7	Hypomethylated in FP vs FN
cg24723731	0.437	0.816	-0.379	8e-09	NA	Hypomethylated in FP vs FN
cg01376829	0.158	0.654	-0.496	8e-09	NA	Hypomethylated in FP vs FN
cg07710335	0.498	0.874	-0.376	8e-09	NA	Hypomethylated in FP vs FN
cg05508585	0.143	0.651	-0.508	8e-09	NA	Hypomethylated in FP vs FN
cg07733993	0.394	0.801	-0.406	8e-09	NA	Hypomethylated in FP vs FN
cg19480937	0.579	0.870	-0.290	8e-09	NA	Hypomethylated in FP vs FN
cg07092111	0.369	0.752	-0.383	8e-09	NA	Hypomethylated in FP vs FN
cg01019875	0.091	0.644	-0.553	8e-09	NA	Hypomethylated in FP vs FN
cg11706790	0.401	0.802	-0.401	8e-09	NEU4	Hypomethylated in FP vs FN
cg08472222	0.483	0.858	-0.376	8e-09	NA	Hypomethylated in FP vs FN
cg22709362	0.379	0.743	-0.364	8e-09	NA	Hypomethylated in FP vs FN
cg22918560	0.352	0.802	-0.451	9e-09	NA	Hypomethylated in FP vs FN
cg17192599	0.603	0.865	-0.262	9e-09	NA	Hypomethylated in FP vs FN
cg07933234	0.326	0.646	-0.319	9e-09	NA	Hypomethylated in FP vs FN
cg23891273	0.271	0.740	-0.469	9e-09	NA	Hypomethylated in FP vs FN
cg17294620	0.435	0.739	-0.304	9e-09	NA	Hypomethylated in FP vs FN
cg22399646	0.394	0.735	-0.341	9e-09	NEU4	Hypomethylated in FP vs FN
cg04067066	0.338	0.621	-0.283	9e-09	NA	Hypomethylated in FP vs FN
cg22450662	0.357	0.717	-0.359	9e-09	NA	Hypomethylated in FP vs FN
cg06022561	0.325	0.660	-0.335	9e-09	NA	Hypomethylated in FP vs FN
cg14215338	0.464	0.901	-0.436	9e-09	NA	Hypomethylated in FP vs FN
cg26719625	0.530	0.816	-0.286	9e-09	NA	Hypomethylated in FP vs FN
cg26323077	0.528	0.844	-0.316	9e-09	NA	Hypomethylated in FP vs FN
cg03324884	0.452	0.831	-0.379	9e-09	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14540913	0.298	0.623	-0.325	1e-08	NA	Hypomethylated in FP vs FN
cg25287071	0.386	0.730	-0.344	1e-08	NA	Hypomethylated in FP vs FN
cg15070897	0.483	0.795	-0.312	1e-08	SLC7A7	Hypomethylated in FP vs FN
cg03997730	0.570	0.928	-0.357	1e-08	NA	Hypomethylated in FP vs FN
cg24164564	0.237	0.721	-0.484	1e-08	NA	Hypomethylated in FP vs FN
cg22449297	0.581	0.842	-0.261	1e-08	NA	Hypomethylated in FP vs FN
cg22931622	0.591	0.859	-0.268	1e-08	NA	Hypomethylated in FP vs FN
cg17924415	0.250	0.658	-0.408	1e-08	NA	Hypomethylated in FP vs FN
cg16069012	0.435	0.774	-0.339	1e-08	NA	Hypomethylated in FP vs FN
cg08436467	0.355	0.728	-0.373	1e-08	GNRH2	Hypomethylated in FP vs FN
cg05091653	0.124	0.419	-0.295	1e-08	NA	Hypomethylated in FP vs FN
cg21648401	0.438	0.777	-0.339	1e-08	SLC30A10	Hypomethylated in FP vs FN
cg15908921	0.094	0.563	-0.469	1e-08	NA	Hypomethylated in FP vs FN
cg26416241	0.520	0.844	-0.324	1e-08	NA	Hypomethylated in FP vs FN
cg10502710	0.462	0.786	-0.324	1e-08	NA	Hypomethylated in FP vs FN
cg14578363	0.287	0.677	-0.390	1e-08	DBF4B	Hypomethylated in FP vs FN
cg24171689	0.530	0.824	-0.294	1e-08	NA	Hypomethylated in FP vs FN
cg14210130	0.589	0.840	-0.251	1e-08	NA	Hypomethylated in FP vs FN
cg11151314	0.563	0.929	-0.366	1e-08	NA	Hypomethylated in FP vs FN
cg01702225	0.448	0.844	-0.396	1e-08	NA	Hypomethylated in FP vs FN
cg06700146	0.117	0.566	-0.450	1e-08	BCL6B	Hypomethylated in FP vs FN
cg14862787	0.580	0.864	-0.284	1e-08	NA	Hypomethylated in FP vs FN
cg23203969	0.391	0.777	-0.386	1e-08	NA	Hypomethylated in FP vs FN
cg00137750	0.597	0.881	-0.284	1e-08	NA	Hypomethylated in FP vs FN
cg07131274	0.464	0.837	-0.372	1e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10985281	0.564	0.877	-0.312	1e-08	NA	Hypomethylated in FP vs FN
cg12242474	0.503	0.795	-0.291	1e-08	NA	Hypomethylated in FP vs FN
cg02836135	0.474	0.822	-0.349	1e-08	NA	Hypomethylated in FP vs FN
cg25825612	0.359	0.750	-0.391	1e-08	NA	Hypomethylated in FP vs FN
cg09159821	0.497	0.797	-0.299	1e-08	NA	Hypomethylated in FP vs FN
cg23597629	0.301	0.706	-0.405	1e-08	NA	Hypomethylated in FP vs FN
cg24136740	0.333	0.829	-0.496	1e-08	NA	Hypomethylated in FP vs FN
cg08066417	0.387	0.661	-0.274	1e-08	NA	Hypomethylated in FP vs FN
cg07024497	0.426	0.686	-0.260	1e-08	NA	Hypomethylated in FP vs FN
cg23381884	0.452	0.751	-0.299	1e-08	NA	Hypomethylated in FP vs FN
cg07355763	0.322	0.718	-0.396	1e-08	NA	Hypomethylated in FP vs FN
cg15426869	0.208	0.521	-0.313	1e-08	NA	Hypomethylated in FP vs FN
cg13315345	0.222	0.640	-0.418	1e-08	NA	Hypomethylated in FP vs FN
cg02221422	0.479	0.815	-0.336	1e-08	NA	Hypomethylated in FP vs FN
cg13425422	0.478	0.857	-0.379	1e-08	NA	Hypomethylated in FP vs FN
cg16362595	0.375	0.656	-0.281	1e-08	NA	Hypomethylated in FP vs FN
cg05467458	0.305	0.668	-0.363	1e-08	SLC7A9	Hypomethylated in FP vs FN
cg12006284	0.267	0.714	-0.447	1e-08	NA	Hypomethylated in FP vs FN
cg23538755	0.576	0.832	-0.256	1e-08	NA	Hypomethylated in FP vs FN
cg02373104	0.548	0.816	-0.268	1e-08	NA	Hypomethylated in FP vs FN
cg02946204	0.337	0.782	-0.445	1e-08	NA	Hypomethylated in FP vs FN
cg04044684	0.178	0.673	-0.495	1e-08	CHFR	Hypomethylated in FP vs FN
cg11970192	0.159	0.635	-0.476	1e-08	NA	Hypomethylated in FP vs FN
cg09776463	0.268	0.723	-0.455	1e-08	NA	Hypomethylated in FP vs FN
cg11569478	0.519	0.808	-0.289	1e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12899747	0.264	0.696	-0.431	1e-08	NA	Hypomethylated in FP vs FN
cg27650212	0.363	0.817	-0.454	1e-08	SLC13A3	Hypomethylated in FP vs FN
cg01052428	0.406	0.682	-0.276	1e-08	NA	Hypomethylated in FP vs FN
cg04282082	0.330	0.707	-0.378	1e-08	NA	Hypomethylated in FP vs FN
cg24194912	0.558	0.863	-0.305	1e-08	NA	Hypomethylated in FP vs FN
cg13842648	0.402	0.767	-0.365	1e-08	IL9	Hypomethylated in FP vs FN
cg11594934	0.553	0.821	-0.268	1e-08	RPAP1	Hypomethylated in FP vs FN
cg21817287	0.430	0.783	-0.353	1e-08	NA	Hypomethylated in FP vs FN
cg05069728	0.368	0.679	-0.311	1e-08	NA	Hypomethylated in FP vs FN
cg21810733	0.352	0.658	-0.306	1e-08	HDAC11	Hypomethylated in FP vs FN
cg07973967	0.396	0.701	-0.305	1e-08	CD79B	Hypomethylated in FP vs FN
cg24067150	0.392	0.782	-0.389	1e-08	NA	Hypomethylated in FP vs FN
cg00093686	0.261	0.635	-0.375	2e-08	NA	Hypomethylated in FP vs FN
cg08932665	0.423	0.730	-0.308	2e-08	NA	Hypomethylated in FP vs FN
cg16795184	0.537	0.826	-0.289	2e-08	NA	Hypomethylated in FP vs FN
cg14290705	0.598	0.866	-0.268	2e-08	NA	Hypomethylated in FP vs FN
cg02890435	0.467	0.790	-0.323	2e-08	NA	Hypomethylated in FP vs FN
cg22817650	0.424	0.806	-0.382	2e-08	NA	Hypomethylated in FP vs FN
cg14644418	0.421	0.775	-0.354	2e-08	NA	Hypomethylated in FP vs FN
cg26168772	0.317	0.611	-0.293	2e-08	NA	Hypomethylated in FP vs FN
cg04696969	0.346	0.721	-0.375	2e-08	NA	Hypomethylated in FP vs FN
cg22495037	0.416	0.791	-0.375	2e-08	RNF150	Hypomethylated in FP vs FN
cg18875607	0.562	0.836	-0.274	2e-08	NA	Hypomethylated in FP vs FN
cg08546494	0.153	0.673	-0.519	2e-08	NA	Hypomethylated in FP vs FN
cg15491567	0.249	0.567	-0.319	2e-08	DYSF	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07069342	0.350	0.768	-0.418	2e-08	NA	Hypomethylated in FP vs FN
cg16502826	0.367	0.707	-0.340	2e-08	NA	Hypomethylated in FP vs FN
cg26766373	0.389	0.716	-0.328	2e-08	ARRB1	Hypomethylated in FP vs FN
cg08360638	0.255	0.656	-0.401	2e-08	NA	Hypomethylated in FP vs FN
cg17208278	0.438	0.801	-0.363	2e-08	NA	Hypomethylated in FP vs FN
cg07166896	0.279	0.593	-0.314	2e-08	NA	Hypomethylated in FP vs FN
cg12964647	0.346	0.724	-0.379	2e-08	MIR1203	Hypomethylated in FP vs FN
cg20596162	0.185	0.629	-0.444	2e-08	NA	Hypomethylated in FP vs FN
cg01311470	0.367	0.750	-0.383	2e-08	C9	Hypomethylated in FP vs FN
cg10803218	0.345	0.687	-0.342	2e-08	NA	Hypomethylated in FP vs FN
cg14633252	0.202	0.624	-0.422	2e-08	NA	Hypomethylated in FP vs FN
cg01551300	0.483	0.769	-0.286	2e-08	NA	Hypomethylated in FP vs FN
cg01194444	0.397	0.770	-0.373	2e-08	MYOG	Hypomethylated in FP vs FN
cg13542368	0.479	0.776	-0.297	2e-08	NA	Hypomethylated in FP vs FN
cg17661686	0.481	0.805	-0.324	2e-08	NA	Hypomethylated in FP vs FN
cg17907648	0.610	0.891	-0.281	2e-08	NA	Hypomethylated in FP vs FN
cg03649497	0.508	0.787	-0.279	2e-08	NA	Hypomethylated in FP vs FN
cg02660541	0.538	0.801	-0.263	2e-08	NA	Hypomethylated in FP vs FN
cg01314439	0.586	0.867	-0.281	2e-08	NA	Hypomethylated in FP vs FN
cg09520126	0.599	0.908	-0.309	2e-08	NA	Hypomethylated in FP vs FN
cg04737114	0.163	0.533	-0.371	2e-08	DLX5	Hypomethylated in FP vs FN
cg26714263	0.469	0.813	-0.344	2e-08	NA	Hypomethylated in FP vs FN
cg05279172	0.345	0.695	-0.350	2e-08	NA	Hypomethylated in FP vs FN
cg23240171	0.446	0.801	-0.356	2e-08	NA	Hypomethylated in FP vs FN
cg01405685	0.407	0.774	-0.368	2e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10420310	0.215	0.635	-0.420	2e-08	MIR193B	Hypomethylated in FP vs FN
cg03295417	0.335	0.735	-0.400	2e-08	NA	Hypomethylated in FP vs FN
cg02648057	0.256	0.647	-0.391	2e-08	NA	Hypomethylated in FP vs FN
cg07107976	0.525	0.804	-0.280	2e-08	NA	Hypomethylated in FP vs FN
cg04560015	0.383	0.708	-0.325	2e-08	NA	Hypomethylated in FP vs FN
cg16311946	0.372	0.754	-0.381	2e-08	NA	Hypomethylated in FP vs FN
cg07524679	0.449	0.798	-0.349	2e-08	NA	Hypomethylated in FP vs FN
cg07224114	0.317	0.736	-0.419	2e-08	NA	Hypomethylated in FP vs FN
cg25978218	0.378	0.719	-0.340	2e-08	NA	Hypomethylated in FP vs FN
cg18047662	0.248	0.738	-0.490	2e-08	FOXI2	Hypomethylated in FP vs FN
cg26543989	0.456	0.776	-0.320	2e-08	NA	Hypomethylated in FP vs FN
cg23078228	0.590	0.854	-0.264	2e-08	NA	Hypomethylated in FP vs FN
cg15056803	0.544	0.855	-0.311	2e-08	NA	Hypomethylated in FP vs FN
cg00239117	0.514	0.876	-0.362	2e-08	NA	Hypomethylated in FP vs FN
cg25341268	0.386	0.730	-0.344	2e-08	NA	Hypomethylated in FP vs FN
cg17130788	0.485	0.855	-0.370	2e-08	NA	Hypomethylated in FP vs FN
cg00059662	0.397	0.736	-0.339	2e-08	NA	Hypomethylated in FP vs FN
cg17780565	0.382	0.728	-0.347	2e-08	NA	Hypomethylated in FP vs FN
cg14434412	0.265	0.708	-0.443	2e-08	NA	Hypomethylated in FP vs FN
cg04843252	0.180	0.628	-0.447	2e-08	NA	Hypomethylated in FP vs FN
cg07209987	0.363	0.810	-0.447	2e-08	NA	Hypomethylated in FP vs FN
cg24815934	0.403	0.744	-0.340	2e-08	NA	Hypomethylated in FP vs FN
cg00406542	0.189	0.605	-0.417	2e-08	NA	Hypomethylated in FP vs FN
cg14776168	0.430	0.776	-0.346	2e-08	NA	Hypomethylated in FP vs FN
cg00413380	0.544	0.810	-0.266	2e-08	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14054620	0.291	0.618	-0.327	2e-08	NA	Hypomethylated in FP vs FN
cg26379845	0.343	0.728	-0.386	2e-08	NA	Hypomethylated in FP vs FN
cg21397848	0.463	0.781	-0.318	2e-08	NA	Hypomethylated in FP vs FN
cg02556363	0.570	0.842	-0.272	2e-08	NA	Hypomethylated in FP vs FN
cg15291308	0.429	0.756	-0.327	2e-08	NA	Hypomethylated in FP vs FN
cg11353035	0.214	0.624	-0.410	2e-08	BCL6B	Hypomethylated in FP vs FN
cg22250556	0.365	0.741	-0.375	2e-08	NA	Hypomethylated in FP vs FN
cg07408989	0.534	0.840	-0.307	2e-08	NA	Hypomethylated in FP vs FN
cg23620047	0.563	0.825	-0.261	2e-08	NA	Hypomethylated in FP vs FN
cg05240479	0.055	0.557	-0.501	2e-08	MLPH	Hypomethylated in FP vs FN
cg05011348	0.544	0.832	-0.288	2e-08	NA	Hypomethylated in FP vs FN
cg06484274	0.179	0.493	-0.314	2e-08	NA	Hypomethylated in FP vs FN
cg16312872	0.492	0.778	-0.286	2e-08	NA	Hypomethylated in FP vs FN
cg24390913	0.191	0.691	-0.500	2e-08	NA	Hypomethylated in FP vs FN
cg20297053	0.327	0.653	-0.327	2e-08	NA	Hypomethylated in FP vs FN
cg20507066	0.438	0.743	-0.305	2e-08	NA	Hypomethylated in FP vs FN
cg00652772	0.360	0.724	-0.364	2e-08	NA	Hypomethylated in FP vs FN
cg03939897	0.552	0.835	-0.283	2e-08	NA	Hypomethylated in FP vs FN
cg27285599	0.459	0.807	-0.348	2e-08	ZNF750	Hypomethylated in FP vs FN
cg06447424	0.366	0.737	-0.372	2e-08	NA	Hypomethylated in FP vs FN
cg04809990	0.431	0.772	-0.341	2e-08	OTOR	Hypomethylated in FP vs FN
cg25680486	0.221	0.588	-0.367	2e-08	NA	Hypomethylated in FP vs FN
cg08156844	0.474	0.837	-0.364	2e-08	NA	Hypomethylated in FP vs FN
cg01046905	0.480	0.820	-0.340	2e-08	NA	Hypomethylated in FP vs FN
cg03758241	0.562	0.865	-0.303	2e-08	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08480774	0.635	0.906	-0.271	2e-08	NA	Hypomethylated in FP vs FN
cg17671199	0.429	0.780	-0.351	2e-08	NA	Hypomethylated in FP vs FN
cg10242198	0.390	0.788	-0.398	2e-08	NA	Hypomethylated in FP vs FN
cg25944620	0.549	0.815	-0.266	2e-08	MYOZ1	Hypomethylated in FP vs FN
cg15208525	0.430	0.705	-0.275	2e-08	NA	Hypomethylated in FP vs FN
cg10825839	0.203	0.485	-0.283	2e-08	NA	Hypomethylated in FP vs FN
cg04562611	0.573	0.830	-0.257	2e-08	NA	Hypomethylated in FP vs FN
cg17756730	0.335	0.682	-0.347	2e-08	NA	Hypomethylated in FP vs FN
cg15014458	0.222	0.689	-0.468	2e-08	LYPD3	Hypomethylated in FP vs FN
cg22588983	0.308	0.722	-0.414	2e-08	NA	Hypomethylated in FP vs FN
cg04216073	0.372	0.719	-0.347	2e-08	NA	Hypomethylated in FP vs FN
cg26854559	0.373	0.818	-0.445	2e-08	NA	Hypomethylated in FP vs FN
cg18454120	0.567	0.821	-0.254	2e-08	NA	Hypomethylated in FP vs FN
cg08645207	0.550	0.844	-0.294	2e-08	NA	Hypomethylated in FP vs FN
cg14527333	0.315	0.622	-0.307	2e-08	NA	Hypomethylated in FP vs FN
cg24631518	0.619	0.900	-0.281	3e-08	NA	Hypomethylated in FP vs FN
cg16012690	0.288	0.675	-0.387	3e-08	NA	Hypomethylated in FP vs FN
cg00665106	0.222	0.525	-0.303	3e-08	NA	Hypomethylated in FP vs FN
cg12424646	0.415	0.740	-0.325	3e-08	NA	Hypomethylated in FP vs FN
cg08053129	0.522	0.832	-0.309	3e-08	NA	Hypomethylated in FP vs FN
cg10688790	0.516	0.835	-0.320	3e-08	MIR548F3	Hypomethylated in FP vs FN
cg01987516	0.330	0.778	-0.448	3e-08	NA	Hypomethylated in FP vs FN
cg15219347	0.206	0.515	-0.308	3e-08	PLVAP	Hypomethylated in FP vs FN
cg05884394	0.122	0.653	-0.531	3e-08	DPY19L2P4	Hypomethylated in FP vs FN
cg08875869	0.553	0.839	-0.286	3e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24700316	0.462	0.822	-0.360	3e-08	NA	Hypomethylated in FP vs FN
cg06726860	0.339	0.815	-0.475	3e-08	NA	Hypomethylated in FP vs FN
cg03541437	0.454	0.840	-0.386	3e-08	NA	Hypomethylated in FP vs FN
cg26394825	0.072	0.506	-0.434	3e-08	CHFR	Hypomethylated in FP vs FN
cg21100712	0.537	0.855	-0.318	3e-08	NA	Hypomethylated in FP vs FN
cg17444642	0.391	0.740	-0.349	3e-08	NA	Hypomethylated in FP vs FN
cg18861119	0.392	0.747	-0.356	3e-08	NA	Hypomethylated in FP vs FN
cg05612608	0.469	0.761	-0.292	3e-08	NA	Hypomethylated in FP vs FN
cg26277556	0.341	0.724	-0.383	3e-08	NA	Hypomethylated in FP vs FN
cg00203736	0.436	0.778	-0.342	3e-08	NA	Hypomethylated in FP vs FN
cg27365295	0.515	0.862	-0.347	3e-08	NA	Hypomethylated in FP vs FN
cg08306076	0.400	0.761	-0.361	3e-08	NA	Hypomethylated in FP vs FN
cg00432262	0.460	0.808	-0.348	3e-08	NA	Hypomethylated in FP vs FN
cg07157169	0.433	0.743	-0.310	3e-08	CTXN3	Hypomethylated in FP vs FN
cg10179251	0.377	0.758	-0.382	3e-08	NA	Hypomethylated in FP vs FN
cg23093846	0.472	0.760	-0.288	3e-08	NA	Hypomethylated in FP vs FN
cg07665535	0.188	0.583	-0.395	3e-08	MIR193B	Hypomethylated in FP vs FN
cg22542139	0.536	0.815	-0.278	3e-08	NA	Hypomethylated in FP vs FN
cg16595458	0.301	0.674	-0.374	3e-08	NA	Hypomethylated in FP vs FN
cg19523082	0.238	0.650	-0.412	3e-08	ARMC3	Hypomethylated in FP vs FN
cg20978460	0.490	0.863	-0.372	3e-08	NA	Hypomethylated in FP vs FN
cg15470344	0.543	0.812	-0.269	3e-08	MYOG	Hypomethylated in FP vs FN
cg06645674	0.288	0.628	-0.341	3e-08	NA	Hypomethylated in FP vs FN
cg00676988	0.488	0.759	-0.272	3e-08	NA	Hypomethylated in FP vs FN
cg10154973	0.498	0.759	-0.261	3e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20043679	0.345	0.695	-0.350	3e-08	LOC388965	Hypomethylated in FP vs FN
cg23987336	0.152	0.469	-0.316	3e-08	NA	Hypomethylated in FP vs FN
cg01483824	0.448	0.870	-0.422	3e-08	NA	Hypomethylated in FP vs FN
cg22387323	0.420	0.808	-0.388	3e-08	NA	Hypomethylated in FP vs FN
cg16908552	0.487	0.841	-0.354	3e-08	NA	Hypomethylated in FP vs FN
cg11630242	0.269	0.710	-0.441	3e-08	AKAP10	Hypomethylated in FP vs FN
cg22308101	0.535	0.872	-0.337	3e-08	NA	Hypomethylated in FP vs FN
cg22544679	0.380	0.773	-0.392	3e-08	NA	Hypomethylated in FP vs FN
cg01227084	0.319	0.711	-0.392	3e-08	NA	Hypomethylated in FP vs FN
cg01069468	0.481	0.741	-0.261	3e-08	NA	Hypomethylated in FP vs FN
cg06206471	0.139	0.590	-0.451	3e-08	NA	Hypomethylated in FP vs FN
cg23287005	0.533	0.911	-0.377	3e-08	NA	Hypomethylated in FP vs FN
cg24606533	0.560	0.813	-0.254	3e-08	NA	Hypomethylated in FP vs FN
cg25629938	0.567	0.844	-0.277	3e-08	RAB3IP	Hypomethylated in FP vs FN
cg18794473	0.570	0.888	-0.318	3e-08	NA	Hypomethylated in FP vs FN
cg20691507	0.261	0.743	-0.482	3e-08	NA	Hypomethylated in FP vs FN
cg22370005	0.131	0.604	-0.473	3e-08	NA	Hypomethylated in FP vs FN
cg22390023	0.522	0.854	-0.332	3e-08	NA	Hypomethylated in FP vs FN
cg04470557	0.395	0.704	-0.310	3e-08	NA	Hypomethylated in FP vs FN
cg14575741	0.488	0.810	-0.322	3e-08	NA	Hypomethylated in FP vs FN
cg20400622	0.551	0.854	-0.303	3e-08	NA	Hypomethylated in FP vs FN
cg20745684	0.261	0.614	-0.353	3e-08	NA	Hypomethylated in FP vs FN
cg00988227	0.566	0.830	-0.264	3e-08	NA	Hypomethylated in FP vs FN
cg06563441	0.485	0.852	-0.367	3e-08	NA	Hypomethylated in FP vs FN
cg01108633	0.415	0.772	-0.357	3e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24360747	0.359	0.775	-0.416	3e-08	NA	Hypomethylated in FP vs FN
cg06134567	0.347	0.799	-0.452	3e-08	PKDREJ	Hypomethylated in FP vs FN
cg14796230	0.612	0.874	-0.263	3e-08	NA	Hypomethylated in FP vs FN
cg11134246	0.436	0.723	-0.287	3e-08	NA	Hypomethylated in FP vs FN
cg24408200	0.402	0.716	-0.314	3e-08	NA	Hypomethylated in FP vs FN
cg03777681	0.506	0.811	-0.305	3e-08	C10orf62	Hypomethylated in FP vs FN
cg17810211	0.455	0.829	-0.374	3e-08	NA	Hypomethylated in FP vs FN
cg09321758	0.212	0.623	-0.411	3e-08	NA	Hypomethylated in FP vs FN
cg08622369	0.565	0.858	-0.294	3e-08	NA	Hypomethylated in FP vs FN
cg25054390	0.364	0.710	-0.346	3e-08	GPR68	Hypomethylated in FP vs FN
cg08566882	0.447	0.802	-0.355	3e-08	NA	Hypomethylated in FP vs FN
cg23385847	0.295	0.699	-0.404	3e-08	NA	Hypomethylated in FP vs FN
cg24842816	0.517	0.823	-0.306	3e-08	NA	Hypomethylated in FP vs FN
cg04341806	0.422	0.794	-0.372	4e-08	LCP1	Hypomethylated in FP vs FN
cg14473030	0.398	0.746	-0.348	4e-08	NA	Hypomethylated in FP vs FN
cg01794501	0.181	0.534	-0.352	4e-08	NA	Hypomethylated in FP vs FN
cg20251943	0.210	0.627	-0.417	4e-08	NA	Hypomethylated in FP vs FN
cg19211915	0.249	0.630	-0.381	4e-08	NA	Hypomethylated in FP vs FN
cg01942543	0.519	0.797	-0.279	4e-08	NA	Hypomethylated in FP vs FN
cg02738205	0.368	0.757	-0.389	4e-08	NA	Hypomethylated in FP vs FN
cg09657673	0.404	0.705	-0.301	4e-08	NA	Hypomethylated in FP vs FN
cg08710564	0.424	0.786	-0.362	4e-08	NA	Hypomethylated in FP vs FN
cg16642938	0.559	0.845	-0.285	4e-08	NA	Hypomethylated in FP vs FN
cg26564172	0.278	0.655	-0.377	4e-08	NA	Hypomethylated in FP vs FN
cg14487111	0.289	0.639	-0.350	4e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00072675	0.552	0.865	-0.312	4e-08	NA	Hypomethylated in FP vs FN
cg14288424	0.408	0.723	-0.315	4e-08	NA	Hypomethylated in FP vs FN
cg07182163	0.419	0.785	-0.366	4e-08	NA	Hypomethylated in FP vs FN
cg27655507	0.280	0.665	-0.385	4e-08	NA	Hypomethylated in FP vs FN
cg15828353	0.319	0.689	-0.370	4e-08	NA	Hypomethylated in FP vs FN
cg00487737	0.144	0.566	-0.422	4e-08	ACP5	Hypomethylated in FP vs FN
cg06877848	0.516	0.842	-0.326	4e-08	NME2	Hypomethylated in FP vs FN
cg12238812	0.202	0.665	-0.463	4e-08	CHFR	Hypomethylated in FP vs FN
cg03076319	0.075	0.545	-0.470	4e-08	MLPH	Hypomethylated in FP vs FN
cg04031093	0.389	0.748	-0.358	4e-08	NA	Hypomethylated in FP vs FN
cg15425827	0.297	0.564	-0.267	4e-08	FAM83A	Hypomethylated in FP vs FN
cg03501387	0.365	0.728	-0.363	4e-08	NA	Hypomethylated in FP vs FN
cg06693511	0.415	0.761	-0.345	4e-08	NA	Hypomethylated in FP vs FN
cg03625109	0.265	0.651	-0.386	4e-08	DBC1	Hypomethylated in FP vs FN
cg02145543	0.445	0.776	-0.331	4e-08	NA	Hypomethylated in FP vs FN
cg11605551	0.522	0.803	-0.281	4e-08	NA	Hypomethylated in FP vs FN
cg13048591	0.518	0.773	-0.255	4e-08	HSPB7	Hypomethylated in FP vs FN
cg19623054	0.566	0.875	-0.309	4e-08	NA	Hypomethylated in FP vs FN
cg13714378	0.473	0.811	-0.338	4e-08	NA	Hypomethylated in FP vs FN
cg19260606	0.448	0.823	-0.375	4e-08	NA	Hypomethylated in FP vs FN
cg14023389	0.401	0.756	-0.356	4e-08	NA	Hypomethylated in FP vs FN
cg20636559	0.442	0.814	-0.372	4e-08	NA	Hypomethylated in FP vs FN
cg17352583	0.483	0.735	-0.252	4e-08	NA	Hypomethylated in FP vs FN
cg14534144	0.353	0.816	-0.463	4e-08	NA	Hypomethylated in FP vs FN
cg01901434	0.407	0.726	-0.319	4e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23507051	0.305	0.699	-0.394	4e-08	NA	Hypomethylated in FP vs FN
cg12871652	0.379	0.733	-0.354	4e-08	NA	Hypomethylated in FP vs FN
cg10794733	0.487	0.765	-0.277	4e-08	NA	Hypomethylated in FP vs FN
cg18509239	0.516	0.853	-0.338	4e-08	IGSF10	Hypomethylated in FP vs FN
cg14852384	0.078	0.444	-0.366	4e-08	ACTA1	Hypomethylated in FP vs FN
cg07044859	0.221	0.672	-0.451	4e-08	NA	Hypomethylated in FP vs FN
cg01493379	0.429	0.826	-0.397	4e-08	NA	Hypomethylated in FP vs FN
cg22755445	0.386	0.769	-0.383	4e-08	NA	Hypomethylated in FP vs FN
cg02363711	0.456	0.786	-0.330	4e-08	NA	Hypomethylated in FP vs FN
cg10767192	0.350	0.722	-0.372	4e-08	NA	Hypomethylated in FP vs FN
cg19570321	0.346	0.755	-0.409	5e-08	NA	Hypomethylated in FP vs FN
cg24820809	0.545	0.877	-0.332	5e-08	MB	Hypomethylated in FP vs FN
cg15165676	0.335	0.663	-0.327	5e-08	BCL6B	Hypomethylated in FP vs FN
cg06986584	0.672	0.950	-0.278	5e-08	NA	Hypomethylated in FP vs FN
cg18074297	0.107	0.571	-0.463	5e-08	CLIC6	Hypomethylated in FP vs FN
cg16608731	0.333	0.643	-0.310	5e-08	NA	Hypomethylated in FP vs FN
cg15584194	0.329	0.671	-0.343	5e-08	NA	Hypomethylated in FP vs FN
cg07569385	0.207	0.543	-0.336	5e-08	NA	Hypomethylated in FP vs FN
cg03980424	0.325	0.718	-0.393	5e-08	NA	Hypomethylated in FP vs FN
cg19200589	0.086	0.633	-0.547	5e-08	CLIC6	Hypomethylated in FP vs FN
cg07485198	0.321	0.703	-0.382	5e-08	NA	Hypomethylated in FP vs FN
cg19522050	0.338	0.746	-0.408	5e-08	NA	Hypomethylated in FP vs FN
cg11703722	0.438	0.751	-0.312	5e-08	LOC389333	Hypomethylated in FP vs FN
cg17402907	0.456	0.735	-0.279	5e-08	NA	Hypomethylated in FP vs FN
cg03488588	0.495	0.792	-0.298	5e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14445814	0.139	0.480	-0.341	5e-08	DBC1	Hypomethylated in FP vs FN
cg01313538	0.564	0.817	-0.252	5e-08	KCNMB2	Hypomethylated in FP vs FN
cg18076767	0.615	0.887	-0.272	5e-08	NA	Hypomethylated in FP vs FN
cg01105375	0.505	0.771	-0.265	5e-08	NA	Hypomethylated in FP vs FN
cg05505545	0.323	0.632	-0.309	5e-08	NA	Hypomethylated in FP vs FN
cg08234618	0.534	0.804	-0.270	5e-08	TF	Hypomethylated in FP vs FN
cg16759204	0.421	0.679	-0.258	5e-08	TJAP1	Hypomethylated in FP vs FN
cg24720583	0.187	0.641	-0.454	5e-08	BCL6B	Hypomethylated in FP vs FN
cg17170442	0.421	0.769	-0.349	5e-08	NA	Hypomethylated in FP vs FN
cg20866075	0.311	0.761	-0.450	5e-08	NA	Hypomethylated in FP vs FN
cg04200485	0.458	0.840	-0.381	5e-08	NA	Hypomethylated in FP vs FN
cg18199992	0.428	0.805	-0.377	5e-08	NA	Hypomethylated in FP vs FN
cg19905856	0.192	0.595	-0.403	5e-08	NA	Hypomethylated in FP vs FN
cg17406412	0.570	0.840	-0.269	5e-08	NA	Hypomethylated in FP vs FN
cg18128976	0.532	0.818	-0.286	5e-08	NA	Hypomethylated in FP vs FN
cg08858245	0.485	0.775	-0.290	5e-08	NA	Hypomethylated in FP vs FN
cg00967123	0.299	0.602	-0.304	5e-08	NA	Hypomethylated in FP vs FN
cg05556923	0.348	0.777	-0.429	5e-08	NA	Hypomethylated in FP vs FN
cg16217297	0.417	0.832	-0.416	5e-08	NA	Hypomethylated in FP vs FN
cg06998224	0.467	0.799	-0.332	5e-08	NA	Hypomethylated in FP vs FN
cg11042373	0.548	0.843	-0.295	5e-08	NA	Hypomethylated in FP vs FN
cg25135333	0.613	0.872	-0.258	5e-08	SEC16B	Hypomethylated in FP vs FN
cg01028223	0.461	0.803	-0.342	5e-08	C7orf20	Hypomethylated in FP vs FN
cg12255774	0.595	0.857	-0.262	5e-08	NA	Hypomethylated in FP vs FN
cg01935400	0.566	0.844	-0.277	5e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03131767	0.506	0.809	-0.303	5e-08	NA	Hypomethylated in FP vs FN
cg07363144	0.259	0.563	-0.304	5e-08	NA	Hypomethylated in FP vs FN
cg24850474	0.235	0.529	-0.293	5e-08	NA	Hypomethylated in FP vs FN
cg07073999	0.270	0.621	-0.351	5e-08	NA	Hypomethylated in FP vs FN
cg08992911	0.107	0.560	-0.452	5e-08	MLPH	Hypomethylated in FP vs FN
cg21964466	0.517	0.817	-0.301	5e-08	NA	Hypomethylated in FP vs FN
cg07643267	0.236	0.627	-0.391	5e-08	LYPD3	Hypomethylated in FP vs FN
cg20436206	0.352	0.705	-0.353	5e-08	NA	Hypomethylated in FP vs FN
cg00608779	0.358	0.753	-0.395	5e-08	NA	Hypomethylated in FP vs FN
cg05664352	0.347	0.755	-0.408	5e-08	NA	Hypomethylated in FP vs FN
cg02817932	0.406	0.665	-0.258	5e-08	NA	Hypomethylated in FP vs FN
cg03171770	0.217	0.676	-0.459	5e-08	NA	Hypomethylated in FP vs FN
cg25916172	0.225	0.587	-0.362	5e-08	NA	Hypomethylated in FP vs FN
cg02095895	0.362	0.682	-0.319	6e-08	NA	Hypomethylated in FP vs FN
cg04586126	0.374	0.818	-0.445	6e-08	NA	Hypomethylated in FP vs FN
cg06697380	0.465	0.753	-0.288	6e-08	NA	Hypomethylated in FP vs FN
cg09234616	0.215	0.712	-0.498	6e-08	NA	Hypomethylated in FP vs FN
cg25305993	0.402	0.681	-0.279	6e-08	NA	Hypomethylated in FP vs FN
cg04382501	0.283	0.635	-0.351	6e-08	NA	Hypomethylated in FP vs FN
cg26362263	0.299	0.583	-0.284	6e-08	NA	Hypomethylated in FP vs FN
cg12167335	0.562	0.860	-0.298	6e-08	NA	Hypomethylated in FP vs FN
cg23735214	0.428	0.765	-0.337	6e-08	NA	Hypomethylated in FP vs FN
cg23117727	0.372	0.746	-0.375	6e-08	NA	Hypomethylated in FP vs FN
cg13013644	0.355	0.686	-0.332	6e-08	NA	Hypomethylated in FP vs FN
cg19587887	0.422	0.793	-0.370	6e-08	PSKH2	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22533573	0.182	0.454	-0.271	6e-08	NA	Hypomethylated in FP vs FN
cg10844382	0.510	0.803	-0.293	6e-08	NA	Hypomethylated in FP vs FN
cg13532185	0.558	0.831	-0.273	6e-08	NA	Hypomethylated in FP vs FN
cg27403628	0.314	0.697	-0.382	6e-08	BANF2	Hypomethylated in FP vs FN
cg21755755	0.383	0.767	-0.384	6e-08	NA	Hypomethylated in FP vs FN
cg14757107	0.326	0.658	-0.332	6e-08	NA	Hypomethylated in FP vs FN
cg06079710	0.230	0.632	-0.402	6e-08	RNLS	Hypomethylated in FP vs FN
cg18827501	0.596	0.876	-0.279	6e-08	NA	Hypomethylated in FP vs FN
cg25374161	0.412	0.754	-0.341	6e-08	NA	Hypomethylated in FP vs FN
cg08158160	0.523	0.775	-0.252	6e-08	NA	Hypomethylated in FP vs FN
cg06903465	0.497	0.820	-0.323	6e-08	NA	Hypomethylated in FP vs FN
cg20450318	0.430	0.803	-0.373	6e-08	NA	Hypomethylated in FP vs FN
cg12946214	0.089	0.358	-0.269	6e-08	TMEM91	Hypomethylated in FP vs FN
cg22596932	0.524	0.826	-0.303	6e-08	NA	Hypomethylated in FP vs FN
cg04735773	0.468	0.816	-0.348	6e-08	NA	Hypomethylated in FP vs FN
cg23342718	0.364	0.788	-0.424	6e-08	NA	Hypomethylated in FP vs FN
cg26381919	0.333	0.681	-0.349	6e-08	NA	Hypomethylated in FP vs FN
cg09665571	0.504	0.759	-0.255	6e-08	NA	Hypomethylated in FP vs FN
cg12077460	0.344	0.695	-0.352	6e-08	NA	Hypomethylated in FP vs FN
cg12135286	0.581	0.876	-0.295	6e-08	NA	Hypomethylated in FP vs FN
cg14095283	0.420	0.762	-0.342	6e-08	PGBD5	Hypomethylated in FP vs FN
cg26832509	0.150	0.547	-0.397	6e-08	CHFR	Hypomethylated in FP vs FN
cg11911550	0.163	0.421	-0.258	6e-08	NA	Hypomethylated in FP vs FN
cg17205313	0.492	0.773	-0.281	6e-08	TTC39C	Hypomethylated in FP vs FN
cg25683570	0.325	0.670	-0.345	6e-08	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

<b>Probe</b>	<b>FP.mean</b>	<b>FN.mean</b>	<b>Mean.diff</b>	<b>Adjusted.P.value</b>	<b>Promoter.related.gene</b>	<b>Category</b>
cg13461509	0.193	0.652	-0.460	6e-08	ECHDC2	Hypomethylated in FP vs FN
cg17971129	0.379	0.726	-0.346	6e-08	NA	Hypomethylated in FP vs FN
cg14096415	0.268	0.577	-0.308	6e-08	NA	Hypomethylated in FP vs FN
cg06512350	0.415	0.805	-0.390	6e-08	NA	Hypomethylated in FP vs FN
cg17375396	0.275	0.609	-0.334	6e-08	NA	Hypomethylated in FP vs FN
cg27583655	0.359	0.693	-0.334	6e-08	NA	Hypomethylated in FP vs FN
cg07974823	0.514	0.828	-0.313	6e-08	NA	Hypomethylated in FP vs FN
cg08756898	0.469	0.804	-0.335	6e-08	NA	Hypomethylated in FP vs FN
cg18371700	0.131	0.576	-0.446	6e-08	CLIC6	Hypomethylated in FP vs FN
cg05051734	0.521	0.808	-0.287	7e-08	NA	Hypomethylated in FP vs FN
cg07034276	0.601	0.865	-0.263	7e-08	AQP6	Hypomethylated in FP vs FN
cg26740249	0.241	0.567	-0.326	7e-08	NA	Hypomethylated in FP vs FN
cg01711572	0.361	0.699	-0.338	7e-08	NA	Hypomethylated in FP vs FN
cg26820037	0.273	0.718	-0.445	7e-08	NA	Hypomethylated in FP vs FN
cg24774396	0.488	0.771	-0.283	7e-08	NA	Hypomethylated in FP vs FN
cg08369014	0.372	0.766	-0.394	7e-08	NA	Hypomethylated in FP vs FN
cg05129489	0.367	0.775	-0.408	7e-08	NA	Hypomethylated in FP vs FN
cg25530583	0.341	0.741	-0.400	7e-08	SLC14A1	Hypomethylated in FP vs FN
cg05784148	0.440	0.770	-0.329	7e-08	NA	Hypomethylated in FP vs FN
cg19894382	0.491	0.830	-0.339	7e-08	NA	Hypomethylated in FP vs FN
cg24983716	0.493	0.839	-0.345	7e-08	P2RY14	Hypomethylated in FP vs FN
cg25171348	0.343	0.653	-0.310	7e-08	NA	Hypomethylated in FP vs FN
cg24412204	0.296	0.709	-0.413	7e-08	NA	Hypomethylated in FP vs FN
cg05270866	0.522	0.806	-0.284	7e-08	NA	Hypomethylated in FP vs FN
cg03380744	0.329	0.679	-0.350	7e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03037856	0.393	0.747	-0.353	7e-08	NA	Hypomethylated in FP vs FN
cg26927807	0.464	0.816	-0.352	7e-08	BTBD2	Hypomethylated in FP vs FN
cg21886186	0.291	0.624	-0.333	7e-08	NA	Hypomethylated in FP vs FN
cg13782866	0.175	0.507	-0.333	7e-08	DISC1	Hypomethylated in FP vs FN
cg15063355	0.129	0.570	-0.441	7e-08	CHFR	Hypomethylated in FP vs FN
cg26418671	0.478	0.808	-0.330	7e-08	NA	Hypomethylated in FP vs FN
cg05487664	0.326	0.685	-0.359	7e-08	LRRC10B	Hypomethylated in FP vs FN
cg17722435	0.405	0.706	-0.301	7e-08	NA	Hypomethylated in FP vs FN
cg25835568	0.441	0.778	-0.337	7e-08	NA	Hypomethylated in FP vs FN
cg25844471	0.521	0.778	-0.257	7e-08	C10orf67	Hypomethylated in FP vs FN
cg26934759	0.445	0.806	-0.361	7e-08	NA	Hypomethylated in FP vs FN
cg16643706	0.275	0.684	-0.408	7e-08	NA	Hypomethylated in FP vs FN
cg26996175	0.243	0.647	-0.404	7e-08	NA	Hypomethylated in FP vs FN
cg18699524	0.596	0.859	-0.264	7e-08	NA	Hypomethylated in FP vs FN
cg18397743	0.268	0.582	-0.313	7e-08	NA	Hypomethylated in FP vs FN
cg03817675	0.292	0.649	-0.357	7e-08	NA	Hypomethylated in FP vs FN
cg05144285	0.312	0.692	-0.380	7e-08	NA	Hypomethylated in FP vs FN
cg10504150	0.347	0.674	-0.327	7e-08	NEU4	Hypomethylated in FP vs FN
cg07493307	0.585	0.841	-0.257	8e-08	NA	Hypomethylated in FP vs FN
cg07704627	0.243	0.577	-0.335	8e-08	NA	Hypomethylated in FP vs FN
cg20304290	0.478	0.774	-0.296	8e-08	NA	Hypomethylated in FP vs FN
cg00802510	0.342	0.757	-0.415	8e-08	NA	Hypomethylated in FP vs FN
cg07526905	0.529	0.808	-0.279	8e-08	RGS12	Hypomethylated in FP vs FN
cg25859972	0.253	0.679	-0.426	8e-08	NA	Hypomethylated in FP vs FN
cg26656452	0.387	0.766	-0.380	8e-08	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12052250	0.342	0.735	-0.393	8e-08	NA	Hypomethylated in FP vs FN
cg08222618	0.307	0.708	-0.400	8e-08	NA	Hypomethylated in FP vs FN
cg22235258	0.353	0.706	-0.353	8e-08	NA	Hypomethylated in FP vs FN
cg26075184	0.396	0.779	-0.384	8e-08	NA	Hypomethylated in FP vs FN
cg11024450	0.479	0.736	-0.256	8e-08	NA	Hypomethylated in FP vs FN
cg00083072	0.550	0.851	-0.302	8e-08	NA	Hypomethylated in FP vs FN
cg00538888	0.501	0.853	-0.352	8e-08	NA	Hypomethylated in FP vs FN
cg14837955	0.450	0.804	-0.354	8e-08	IL1RL2	Hypomethylated in FP vs FN
cg01263574	0.316	0.613	-0.297	8e-08	TMEM8C	Hypomethylated in FP vs FN
cg11071202	0.206	0.465	-0.260	8e-08	NA	Hypomethylated in FP vs FN
cg07296855	0.603	0.863	-0.260	8e-08	NA	Hypomethylated in FP vs FN
cg02764346	0.177	0.599	-0.421	8e-08	GALNT3	Hypomethylated in FP vs FN
cg02874942	0.192	0.589	-0.397	8e-08	ACP5	Hypomethylated in FP vs FN
cg23924370	0.333	0.723	-0.390	8e-08	NA	Hypomethylated in FP vs FN
cg11494437	0.424	0.780	-0.356	9e-08	NA	Hypomethylated in FP vs FN
cg14674802	0.294	0.704	-0.410	9e-08	NA	Hypomethylated in FP vs FN
cg13425146	0.447	0.803	-0.356	9e-08	NA	Hypomethylated in FP vs FN
cg27036638	0.321	0.634	-0.313	9e-08	NA	Hypomethylated in FP vs FN
cg21388639	0.532	0.808	-0.276	9e-08	NA	Hypomethylated in FP vs FN
cg02234314	0.549	0.850	-0.302	9e-08	ZNF628	Hypomethylated in FP vs FN
cg11710969	0.268	0.691	-0.423	9e-08	NA	Hypomethylated in FP vs FN
cg15275393	0.515	0.769	-0.254	9e-08	NA	Hypomethylated in FP vs FN
cg18462381	0.364	0.772	-0.408	9e-08	NA	Hypomethylated in FP vs FN
cg19057001	0.232	0.511	-0.279	9e-08	ANXA6	Hypomethylated in FP vs FN
cg04430582	0.391	0.759	-0.369	9e-08	MIR195_MIR497	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04945434	0.527	0.836	-0.309	9e-08	NA	Hypomethylated in FP vs FN
cg03615568	0.354	0.740	-0.385	9e-08	NA	Hypomethylated in FP vs FN
cg02624701	0.327	0.772	-0.445	9e-08	NA	Hypomethylated in FP vs FN
cg24530000	0.511	0.789	-0.278	9e-08	NA	Hypomethylated in FP vs FN
cg00902374	0.284	0.664	-0.381	9e-08	NA	Hypomethylated in FP vs FN
cg07178969	0.233	0.681	-0.448	9e-08	NA	Hypomethylated in FP vs FN
cg12159992	0.315	0.651	-0.336	9e-08	NA	Hypomethylated in FP vs FN
cg02095596	0.402	0.716	-0.314	9e-08	NA	Hypomethylated in FP vs FN
cg21031917	0.282	0.619	-0.338	9e-08	NA	Hypomethylated in FP vs FN
cg16012773	0.553	0.806	-0.253	1e-07	NA	Hypomethylated in FP vs FN
cg23716078	0.500	0.809	-0.308	1e-07	NA	Hypomethylated in FP vs FN
cg27612166	0.551	0.837	-0.286	1e-07	NA	Hypomethylated in FP vs FN
cg27374508	0.519	0.868	-0.349	1e-07	NA	Hypomethylated in FP vs FN
cg11864326	0.348	0.692	-0.344	1e-07	NA	Hypomethylated in FP vs FN
cg26913344	0.491	0.750	-0.258	1e-07	NA	Hypomethylated in FP vs FN
cg26173417	0.420	0.754	-0.335	1e-07	NA	Hypomethylated in FP vs FN
cg10643691	0.325	0.764	-0.439	1e-07	NA	Hypomethylated in FP vs FN
cg26872045	0.625	0.883	-0.258	1e-07	NA	Hypomethylated in FP vs FN
cg10368447	0.149	0.595	-0.445	1e-07	NA	Hypomethylated in FP vs FN
cg04073970	0.077	0.583	-0.507	1e-07	NA	Hypomethylated in FP vs FN
cg07990546	0.332	0.760	-0.427	1e-07	TLX2	Hypomethylated in FP vs FN
cg24488391	0.506	0.845	-0.339	1e-07	METTL11B	Hypomethylated in FP vs FN
cg18960324	0.261	0.561	-0.300	1e-07	NA	Hypomethylated in FP vs FN
cg19775582	0.474	0.858	-0.383	1e-07	NA	Hypomethylated in FP vs FN
cg05392263	0.388	0.744	-0.356	1e-07	KIF25	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08428985	0.469	0.744	-0.274	1e-07	NA	Hypomethylated in FP vs FN
cg24585690	0.570	0.848	-0.278	1e-07	IL9	Hypomethylated in FP vs FN
cg06464324	0.487	0.744	-0.257	1e-07	NA	Hypomethylated in FP vs FN
cg02767613	0.103	0.536	-0.433	1e-07	ACTA1	Hypomethylated in FP vs FN
cg17910105	0.463	0.791	-0.328	1e-07	NA	Hypomethylated in FP vs FN
cg19811076	0.431	0.754	-0.323	1e-07	NA	Hypomethylated in FP vs FN
cg04018325	0.221	0.617	-0.396	1e-07	MIR193B	Hypomethylated in FP vs FN
cg15605096	0.373	0.758	-0.385	1e-07	NA	Hypomethylated in FP vs FN
cg20791593	0.421	0.741	-0.320	1e-07	NEU4	Hypomethylated in FP vs FN
cg26296781	0.170	0.499	-0.329	1e-07	NA	Hypomethylated in FP vs FN
cg17675386	0.616	0.869	-0.253	1e-07	NA	Hypomethylated in FP vs FN
cg07301829	0.347	0.699	-0.352	1e-07	NA	Hypomethylated in FP vs FN
cg13540960	0.148	0.660	-0.512	1e-07	NA	Hypomethylated in FP vs FN
cg20469275	0.327	0.727	-0.401	1e-07	SNCAIP	Hypomethylated in FP vs FN
cg18159802	0.217	0.494	-0.277	1e-07	NA	Hypomethylated in FP vs FN
cg27295373	0.424	0.783	-0.359	1e-07	SLC30A10	Hypomethylated in FP vs FN
cg09283043	0.393	0.709	-0.316	1e-07	NA	Hypomethylated in FP vs FN
cg02934719	0.447	0.795	-0.349	1e-07	NA	Hypomethylated in FP vs FN
cg13820205	0.265	0.679	-0.414	1e-07	NA	Hypomethylated in FP vs FN
cg12303215	0.229	0.559	-0.330	1e-07	NA	Hypomethylated in FP vs FN
cg09155881	0.359	0.719	-0.361	1e-07	NA	Hypomethylated in FP vs FN
cg09115960	0.389	0.736	-0.348	1e-07	NA	Hypomethylated in FP vs FN
cg18692070	0.169	0.497	-0.328	1e-07	NA	Hypomethylated in FP vs FN
cg10735582	0.322	0.676	-0.354	1e-07	NA	Hypomethylated in FP vs FN
cg13876292	0.503	0.802	-0.299	1e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06887407	0.498	0.817	-0.319	1e-07	NA	Hypomethylated in FP vs FN
cg25647784	0.322	0.656	-0.334	1e-07	NA	Hypomethylated in FP vs FN
cg23610994	0.480	0.841	-0.361	1e-07	NA	Hypomethylated in FP vs FN
cg01026233	0.227	0.576	-0.349	1e-07	NA	Hypomethylated in FP vs FN
cg03572772	0.263	0.665	-0.401	1e-07	PCDHB15	Hypomethylated in FP vs FN
cg03338754	0.256	0.725	-0.469	1e-07	NA	Hypomethylated in FP vs FN
cg16289101	0.450	0.825	-0.375	1e-07	NA	Hypomethylated in FP vs FN
cg16660312	0.284	0.609	-0.325	1e-07	NEU4	Hypomethylated in FP vs FN
cg25510753	0.569	0.847	-0.278	1e-07	NA	Hypomethylated in FP vs FN
cg01052276	0.447	0.716	-0.269	1e-07	NA	Hypomethylated in FP vs FN
cg08748969	0.418	0.751	-0.333	1e-07	CPM	Hypomethylated in FP vs FN
cg25106645	0.327	0.709	-0.382	1e-07	NA	Hypomethylated in FP vs FN
cg25344367	0.463	0.769	-0.306	1e-07	NA	Hypomethylated in FP vs FN
cg20725239	0.322	0.664	-0.342	1e-07	HEPACAM	Hypomethylated in FP vs FN
cg22954008	0.471	0.740	-0.269	1e-07	NA	Hypomethylated in FP vs FN
cg00400992	0.248	0.612	-0.363	1e-07	NA	Hypomethylated in FP vs FN
cg10816760	0.208	0.526	-0.318	1e-07	NA	Hypomethylated in FP vs FN
cg03571927	0.133	0.678	-0.544	1e-07	DPY19L2P4	Hypomethylated in FP vs FN
cg08535112	0.382	0.788	-0.406	1e-07	NA	Hypomethylated in FP vs FN
cg16283208	0.133	0.558	-0.425	1e-07	NA	Hypomethylated in FP vs FN
cg10947633	0.455	0.826	-0.371	1e-07	NA	Hypomethylated in FP vs FN
cg01208614	0.502	0.827	-0.325	1e-07	FCHSD1	Hypomethylated in FP vs FN
cg05294577	0.395	0.737	-0.342	1e-07	NA	Hypomethylated in FP vs FN
cg03820608	0.473	0.785	-0.312	1e-07	NA	Hypomethylated in FP vs FN
cg06013833	0.494	0.860	-0.366	1e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17136275	0.302	0.677	-0.376	1e-07	NA	Hypomethylated in FP vs FN
cg06533788	0.591	0.869	-0.278	1e-07	NA	Hypomethylated in FP vs FN
cg05575733	0.450	0.782	-0.331	1e-07	NA	Hypomethylated in FP vs FN
cg11861709	0.141	0.579	-0.438	1e-07	RNLS	Hypomethylated in FP vs FN
cg06410104	0.485	0.846	-0.361	1e-07	NA	Hypomethylated in FP vs FN
cg00866295	0.490	0.772	-0.282	1e-07	NA	Hypomethylated in FP vs FN
cg23167246	0.388	0.814	-0.426	1e-07	NA	Hypomethylated in FP vs FN
cg05815436	0.202	0.562	-0.360	1e-07	NA	Hypomethylated in FP vs FN
cg03679504	0.432	0.757	-0.324	1e-07	LRRC2	Hypomethylated in FP vs FN
cg03965322	0.413	0.687	-0.274	1e-07	NA	Hypomethylated in FP vs FN
cg13380612	0.314	0.765	-0.451	1e-07	NA	Hypomethylated in FP vs FN
cg07079219	0.157	0.564	-0.407	1e-07	NA	Hypomethylated in FP vs FN
cg27624327	0.256	0.616	-0.360	1e-07	NA	Hypomethylated in FP vs FN
cg08116998	0.471	0.738	-0.267	1e-07	NA	Hypomethylated in FP vs FN
cg00604736	0.383	0.750	-0.366	1e-07	AQP6	Hypomethylated in FP vs FN
cg22750001	0.372	0.721	-0.349	1e-07	MPEG1	Hypomethylated in FP vs FN
cg06052090	0.516	0.812	-0.296	1e-07	NA	Hypomethylated in FP vs FN
cg10414058	0.163	0.444	-0.281	1e-07	RELL2_HDAC3	Hypomethylated in FP vs FN
cg08260658	0.233	0.625	-0.391	1e-07	NA	Hypomethylated in FP vs FN
cg24730157	0.498	0.894	-0.396	1e-07	NA	Hypomethylated in FP vs FN
cg26986443	0.495	0.840	-0.345	1e-07	NA	Hypomethylated in FP vs FN
cg19984355	0.410	0.739	-0.329	1e-07	NA	Hypomethylated in FP vs FN
cg09798801	0.409	0.781	-0.373	1e-07	NA	Hypomethylated in FP vs FN
cg06273075	0.211	0.631	-0.420	1e-07	MIR193B	Hypomethylated in FP vs FN
cg07511934	0.240	0.553	-0.313	1e-07	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24815353	0.439	0.806	-0.367	1e-07	NA	Hypomethylated in FP vs FN
cg04124361	0.582	0.833	-0.251	1e-07	NA	Hypomethylated in FP vs FN
cg08426823	0.499	0.813	-0.315	1e-07	NA	Hypomethylated in FP vs FN
cg04132891	0.230	0.570	-0.340	1e-07	NA	Hypomethylated in FP vs FN
cg09237447	0.469	0.797	-0.329	1e-07	NA	Hypomethylated in FP vs FN
cg05448271	0.511	0.816	-0.305	1e-07	NA	Hypomethylated in FP vs FN
cg17699047	0.401	0.745	-0.344	1e-07	NA	Hypomethylated in FP vs FN
cg08549335	0.441	0.726	-0.285	1e-07	NA	Hypomethylated in FP vs FN
cg02946394	0.431	0.699	-0.269	1e-07	NA	Hypomethylated in FP vs FN
cg02952703	0.561	0.822	-0.261	1e-07	NA	Hypomethylated in FP vs FN
cg26065247	0.403	0.704	-0.301	1e-07	NA	Hypomethylated in FP vs FN
cg13752885	0.449	0.752	-0.303	1e-07	MCART1	Hypomethylated in FP vs FN
cg03920522	0.356	0.775	-0.419	1e-07	NA	Hypomethylated in FP vs FN
cg08599448	0.152	0.553	-0.401	1e-07	ACP5	Hypomethylated in FP vs FN
cg25424742	0.373	0.747	-0.374	1e-07	NA	Hypomethylated in FP vs FN
cg03858448	0.484	0.780	-0.296	1e-07	NA	Hypomethylated in FP vs FN
cg02149376	0.369	0.691	-0.322	1e-07	NA	Hypomethylated in FP vs FN
cg23250540	0.385	0.773	-0.388	1e-07	TMPRSS3	Hypomethylated in FP vs FN
cg24873202	0.387	0.702	-0.315	1e-07	NA	Hypomethylated in FP vs FN
cg07669182	0.456	0.765	-0.309	1e-07	NA	Hypomethylated in FP vs FN
cg01295785	0.378	0.751	-0.373	2e-07	NA	Hypomethylated in FP vs FN
cg26958597	0.127	0.543	-0.415	2e-07	EFCAB10	Hypomethylated in FP vs FN
cg09417809	0.386	0.712	-0.326	2e-07	NA	Hypomethylated in FP vs FN
cg01029395	0.506	0.835	-0.329	2e-07	NA	Hypomethylated in FP vs FN
cg08162222	0.263	0.675	-0.412	2e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17773660	0.464	0.768	-0.304	2e-07	NA	Hypomethylated in FP vs FN
cg25452067	0.225	0.593	-0.369	2e-07	NA	Hypomethylated in FP vs FN
cg20749769	0.082	0.568	-0.486	2e-07	NA	Hypomethylated in FP vs FN
cg05134019	0.292	0.681	-0.388	2e-07	NA	Hypomethylated in FP vs FN
cg18147233	0.357	0.706	-0.349	2e-07	NA	Hypomethylated in FP vs FN
cg19639967	0.464	0.831	-0.367	2e-07	NA	Hypomethylated in FP vs FN
cg00980060	0.265	0.614	-0.349	2e-07	NA	Hypomethylated in FP vs FN
cg12413242	0.304	0.591	-0.287	2e-07	NA	Hypomethylated in FP vs FN
cg25593948	0.261	0.722	-0.461	2e-07	TFAP2B	Hypomethylated in FP vs FN
cg11700356	0.216	0.637	-0.422	2e-07	NA	Hypomethylated in FP vs FN
cg24213719	0.152	0.654	-0.502	2e-07	NA	Hypomethylated in FP vs FN
cg26000011	0.586	0.868	-0.282	2e-07	NA	Hypomethylated in FP vs FN
cg18738220	0.387	0.743	-0.356	2e-07	NA	Hypomethylated in FP vs FN
cg26786253	0.562	0.872	-0.311	2e-07	NA	Hypomethylated in FP vs FN
cg19678029	0.516	0.810	-0.293	2e-07	KCNQ1OT1	Hypomethylated in FP vs FN
cg18170348	0.461	0.769	-0.307	2e-07	NA	Hypomethylated in FP vs FN
cg03061682	0.072	0.657	-0.585	2e-07	NA	Hypomethylated in FP vs FN
cg14480531	0.264	0.635	-0.371	2e-07	NA	Hypomethylated in FP vs FN
cg11247497	0.473	0.799	-0.326	2e-07	NA	Hypomethylated in FP vs FN
cg16954165	0.347	0.701	-0.354	2e-07	NA	Hypomethylated in FP vs FN
cg00674896	0.195	0.658	-0.463	2e-07	NA	Hypomethylated in FP vs FN
cg23811057	0.244	0.564	-0.320	2e-07	NA	Hypomethylated in FP vs FN
cg11528328	0.118	0.626	-0.508	2e-07	CLIC6	Hypomethylated in FP vs FN
cg19560210	0.410	0.771	-0.361	2e-07	PGBD5	Hypomethylated in FP vs FN
cg22256433	0.191	0.560	-0.369	2e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27135286	0.255	0.533	-0.278	2e-07	NA	Hypomethylated in FP vs FN
cg14517359	0.525	0.794	-0.269	2e-07	NA	Hypomethylated in FP vs FN
cg23756005	0.340	0.695	-0.356	2e-07	NA	Hypomethylated in FP vs FN
cg07166333	0.451	0.840	-0.389	2e-07	NA	Hypomethylated in FP vs FN
cg16805189	0.464	0.744	-0.280	2e-07	NA	Hypomethylated in FP vs FN
cg26687830	0.378	0.694	-0.316	2e-07	NA	Hypomethylated in FP vs FN
cg03032798	0.345	0.754	-0.409	2e-07	NA	Hypomethylated in FP vs FN
cg13494826	0.366	0.668	-0.302	2e-07	NA	Hypomethylated in FP vs FN
cg20411935	0.241	0.606	-0.365	2e-07	NA	Hypomethylated in FP vs FN
cg19765281	0.482	0.783	-0.301	2e-07	NA	Hypomethylated in FP vs FN
cg03792964	0.436	0.724	-0.288	2e-07	NA	Hypomethylated in FP vs FN
cg05168012	0.494	0.887	-0.393	2e-07	NA	Hypomethylated in FP vs FN
cg06086012	0.393	0.703	-0.310	2e-07	NA	Hypomethylated in FP vs FN
cg20744108	0.420	0.776	-0.356	2e-07	NA	Hypomethylated in FP vs FN
cg01789743	0.389	0.678	-0.289	2e-07	NA	Hypomethylated in FP vs FN
cg26504110	0.278	0.755	-0.478	2e-07	NA	Hypomethylated in FP vs FN
cg10830649	0.115	0.605	-0.490	2e-07	GALNT3	Hypomethylated in FP vs FN
cg20424973	0.384	0.704	-0.320	2e-07	NA	Hypomethylated in FP vs FN
cg26189067	0.198	0.568	-0.370	2e-07	TTC27	Hypomethylated in FP vs FN
cg22025206	0.261	0.637	-0.377	2e-07	NA	Hypomethylated in FP vs FN
cg24603464	0.113	0.555	-0.442	2e-07	MLPH	Hypomethylated in FP vs FN
cg09111484	0.563	0.878	-0.314	2e-07	NA	Hypomethylated in FP vs FN
cg09177659	0.575	0.856	-0.281	2e-07	NA	Hypomethylated in FP vs FN
cg07203423	0.312	0.682	-0.370	2e-07	NA	Hypomethylated in FP vs FN
cg04733856	0.442	0.754	-0.313	2e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26470937	0.521	0.838	-0.317	2e-07	NA	Hypomethylated in FP vs FN
cg10900526	0.457	0.806	-0.349	2e-07	NA	Hypomethylated in FP vs FN
cg14741474	0.343	0.673	-0.330	2e-07	SELPLG	Hypomethylated in FP vs FN
cg25424029	0.522	0.805	-0.283	2e-07	NA	Hypomethylated in FP vs FN
cg18646254	0.521	0.796	-0.275	2e-07	NA	Hypomethylated in FP vs FN
cg08108655	0.456	0.790	-0.334	2e-07	NA	Hypomethylated in FP vs FN
cg18646365	0.321	0.695	-0.374	2e-07	CRABP1	Hypomethylated in FP vs FN
cg21994818	0.313	0.654	-0.341	2e-07	NA	Hypomethylated in FP vs FN
cg07969619	0.111	0.533	-0.423	2e-07	NA	Hypomethylated in FP vs FN
cg02523640	0.130	0.663	-0.532	2e-07	FOXI2	Hypomethylated in FP vs FN
cg19320612	0.538	0.852	-0.314	2e-07	NA	Hypomethylated in FP vs FN
cg06444374	0.445	0.712	-0.267	2e-07	NA	Hypomethylated in FP vs FN
cg20972453	0.211	0.591	-0.381	2e-07	GJB6	Hypomethylated in FP vs FN
cg01776926	0.513	0.809	-0.296	2e-07	NA	Hypomethylated in FP vs FN
cg02322400	0.340	0.634	-0.293	2e-07	NA	Hypomethylated in FP vs FN
cg11908202	0.602	0.903	-0.302	2e-07	NA	Hypomethylated in FP vs FN
cg02367850	0.273	0.792	-0.519	2e-07	NA	Hypomethylated in FP vs FN
cg13842262	0.526	0.839	-0.313	2e-07	NA	Hypomethylated in FP vs FN
cg13857933	0.185	0.436	-0.251	2e-07	NA	Hypomethylated in FP vs FN
cg03504042	0.459	0.782	-0.323	2e-07	NA	Hypomethylated in FP vs FN
cg08843850	0.510	0.838	-0.328	2e-07	NA	Hypomethylated in FP vs FN
cg24723373	0.450	0.762	-0.312	2e-07	NA	Hypomethylated in FP vs FN
cg05960932	0.508	0.798	-0.289	2e-07	NA	Hypomethylated in FP vs FN
cg13487156	0.535	0.800	-0.264	2e-07	NA	Hypomethylated in FP vs FN
cg23962048	0.437	0.755	-0.318	2e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05667101	0.484	0.860	-0.376	2e-07	NTN5	Hypomethylated in FP vs FN
cg07223180	0.524	0.834	-0.310	2e-07	NA	Hypomethylated in FP vs FN
cg11620475	0.273	0.641	-0.368	2e-07	LOC389332	Hypomethylated in FP vs FN
cg00396865	0.450	0.720	-0.270	2e-07	NA	Hypomethylated in FP vs FN
cg16823466	0.241	0.710	-0.469	2e-07	NA	Hypomethylated in FP vs FN
cg16764236	0.357	0.739	-0.382	2e-07	CCL11	Hypomethylated in FP vs FN
cg00885461	0.485	0.816	-0.331	2e-07	NA	Hypomethylated in FP vs FN
cg00405688	0.341	0.771	-0.430	2e-07	FOXI2	Hypomethylated in FP vs FN
cg00381829	0.432	0.737	-0.306	2e-07	NA	Hypomethylated in FP vs FN
cg08013274	0.550	0.818	-0.268	2e-07	NA	Hypomethylated in FP vs FN
cg14143441	0.506	0.795	-0.289	2e-07	NA	Hypomethylated in FP vs FN
cg03340365	0.252	0.628	-0.375	2e-07	NA	Hypomethylated in FP vs FN
cg01557221	0.408	0.704	-0.296	2e-07	APOL3	Hypomethylated in FP vs FN
cg16857825	0.397	0.736	-0.339	2e-07	MAPK14	Hypomethylated in FP vs FN
cg13138446	0.330	0.712	-0.383	2e-07	NA	Hypomethylated in FP vs FN
cg22243439	0.492	0.842	-0.349	2e-07	NA	Hypomethylated in FP vs FN
cg16868298	0.322	0.715	-0.393	2e-07	WNT16	Hypomethylated in FP vs FN
cg01219426	0.191	0.475	-0.284	2e-07	NA	Hypomethylated in FP vs FN
cg27637738	0.506	0.786	-0.280	2e-07	NA	Hypomethylated in FP vs FN
cg01485010	0.210	0.606	-0.396	2e-07	EPHA1	Hypomethylated in FP vs FN
cg04148355	0.461	0.753	-0.292	2e-07	NA	Hypomethylated in FP vs FN
cg24773418	0.091	0.569	-0.477	2e-07	NA	Hypomethylated in FP vs FN
cg27175024	0.153	0.554	-0.401	2e-07	NA	Hypomethylated in FP vs FN
cg25878149	0.554	0.841	-0.287	2e-07	NA	Hypomethylated in FP vs FN
cg19548859	0.279	0.648	-0.369	2e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16408555	0.475	0.754	-0.279	2e-07	NA	Hypomethylated in FP vs FN
cg14354820	0.431	0.710	-0.279	2e-07	NA	Hypomethylated in FP vs FN
cg13616930	0.460	0.765	-0.305	2e-07	ZNF750	Hypomethylated in FP vs FN
cg06406458	0.602	0.937	-0.335	2e-07	NA	Hypomethylated in FP vs FN
cg16539741	0.255	0.539	-0.284	2e-07	NA	Hypomethylated in FP vs FN
cg03472888	0.470	0.833	-0.363	2e-07	NA	Hypomethylated in FP vs FN
cg11526848	0.307	0.716	-0.409	2e-07	NA	Hypomethylated in FP vs FN
cg24519867	0.541	0.826	-0.285	2e-07	NA	Hypomethylated in FP vs FN
cg05643339	0.362	0.738	-0.376	2e-07	TNN	Hypomethylated in FP vs FN
cg03595580	0.177	0.521	-0.345	2e-07	NA	Hypomethylated in FP vs FN
cg25043050	0.454	0.793	-0.339	2e-07	FOXI2	Hypomethylated in FP vs FN
cg19306958	0.572	0.881	-0.309	2e-07	NA	Hypomethylated in FP vs FN
cg16079364	0.197	0.462	-0.265	2e-07	NA	Hypomethylated in FP vs FN
cg02768671	0.372	0.672	-0.300	2e-07	NA	Hypomethylated in FP vs FN
cg07344338	0.289	0.653	-0.363	2e-07	NA	Hypomethylated in FP vs FN
cg03698681	0.501	0.817	-0.316	2e-07	NA	Hypomethylated in FP vs FN
cg23367107	0.078	0.542	-0.464	2e-07	NA	Hypomethylated in FP vs FN
cg27513684	0.275	0.537	-0.262	2e-07	NA	Hypomethylated in FP vs FN
cg24166814	0.592	0.860	-0.269	2e-07	NA	Hypomethylated in FP vs FN
cg15579971	0.300	0.636	-0.336	2e-07	NA	Hypomethylated in FP vs FN
cg17665357	0.657	0.914	-0.257	2e-07	NA	Hypomethylated in FP vs FN
cg19350115	0.380	0.706	-0.325	2e-07	NA	Hypomethylated in FP vs FN
cg09506473	0.153	0.568	-0.415	2e-07	PSKH2	Hypomethylated in FP vs FN
cg17091312	0.286	0.609	-0.323	2e-07	NA	Hypomethylated in FP vs FN
cg00273449	0.353	0.694	-0.341	2e-07	C2orf65	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02611848	0.370	0.784	-0.414	2e-07	C2orf65	Hypomethylated in FP vs FN
cg25820062	0.368	0.700	-0.332	2e-07	NA	Hypomethylated in FP vs FN
cg14658300	0.396	0.680	-0.283	2e-07	NA	Hypomethylated in FP vs FN
cg00038857	0.505	0.763	-0.259	2e-07	CCL8	Hypomethylated in FP vs FN
cg09047361	0.531	0.790	-0.259	2e-07	NA	Hypomethylated in FP vs FN
cg22923006	0.324	0.717	-0.393	2e-07	NA	Hypomethylated in FP vs FN
cg19326382	0.414	0.811	-0.397	2e-07	NA	Hypomethylated in FP vs FN
cg03989507	0.347	0.762	-0.414	2e-07	NA	Hypomethylated in FP vs FN
cg13531667	0.193	0.491	-0.298	2e-07	MCC	Hypomethylated in FP vs FN
cg10738025	0.412	0.767	-0.355	2e-07	NA	Hypomethylated in FP vs FN
cg02792168	0.316	0.789	-0.472	2e-07	NA	Hypomethylated in FP vs FN
cg15090036	0.405	0.659	-0.254	2e-07	NA	Hypomethylated in FP vs FN
cg10272520	0.568	0.893	-0.326	2e-07	NA	Hypomethylated in FP vs FN
cg14253677	0.490	0.768	-0.279	2e-07	KCNV2	Hypomethylated in FP vs FN
cg05790630	0.591	0.859	-0.267	2e-07	NA	Hypomethylated in FP vs FN
cg13493546	0.578	0.892	-0.314	2e-07	NA	Hypomethylated in FP vs FN
cg24516497	0.536	0.798	-0.262	2e-07	NA	Hypomethylated in FP vs FN
cg27116114	0.476	0.732	-0.256	2e-07	NA	Hypomethylated in FP vs FN
cg25475742	0.355	0.741	-0.385	2e-07	NA	Hypomethylated in FP vs FN
cg16572957	0.466	0.845	-0.379	2e-07	NA	Hypomethylated in FP vs FN
cg00815484	0.264	0.718	-0.454	2e-07	NA	Hypomethylated in FP vs FN
cg06799533	0.411	0.758	-0.347	2e-07	NA	Hypomethylated in FP vs FN
cg14086692	0.425	0.712	-0.287	2e-07	NA	Hypomethylated in FP vs FN
cg04422003	0.460	0.740	-0.280	2e-07	NA	Hypomethylated in FP vs FN
cg25227672	0.365	0.689	-0.324	2e-07	HEPACAM	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01980735	0.522	0.781	-0.259	2e-07	NA	Hypomethylated in FP vs FN
cg22813290	0.517	0.833	-0.316	2e-07	NA	Hypomethylated in FP vs FN
cg11192787	0.358	0.685	-0.327	2e-07	NA	Hypomethylated in FP vs FN
cg02884053	0.512	0.806	-0.295	2e-07	NA	Hypomethylated in FP vs FN
cg08116113	0.423	0.706	-0.284	2e-07	NA	Hypomethylated in FP vs FN
cg11014463	0.214	0.614	-0.400	2e-07	BEND6	Hypomethylated in FP vs FN
cg10440196	0.567	0.889	-0.322	2e-07	NA	Hypomethylated in FP vs FN
cg12617473	0.539	0.840	-0.301	2e-07	NA	Hypomethylated in FP vs FN
cg08625996	0.455	0.782	-0.327	2e-07	NA	Hypomethylated in FP vs FN
cg08282578	0.500	0.759	-0.259	2e-07	NA	Hypomethylated in FP vs FN
cg21980100	0.313	0.623	-0.310	2e-07	CCDC144NL	Hypomethylated in FP vs FN
cg05031424	0.408	0.737	-0.329	2e-07	NA	Hypomethylated in FP vs FN
cg17586256	0.214	0.563	-0.348	2e-07	NA	Hypomethylated in FP vs FN
cg23169883	0.398	0.767	-0.369	3e-07	NA	Hypomethylated in FP vs FN
cg02384546	0.357	0.714	-0.358	3e-07	ZNF750	Hypomethylated in FP vs FN
cg10081941	0.497	0.841	-0.344	3e-07	NA	Hypomethylated in FP vs FN
cg19980718	0.599	0.873	-0.274	3e-07	NA	Hypomethylated in FP vs FN
cg06625004	0.307	0.666	-0.359	3e-07	NA	Hypomethylated in FP vs FN
cg13554136	0.320	0.700	-0.381	3e-07	NA	Hypomethylated in FP vs FN
cg26380443	0.316	0.682	-0.366	3e-07	PCDHB15	Hypomethylated in FP vs FN
cg18788932	0.405	0.733	-0.328	3e-07	NA	Hypomethylated in FP vs FN
cg07066794	0.329	0.597	-0.268	3e-07	NA	Hypomethylated in FP vs FN
cg09135551	0.181	0.560	-0.380	3e-07	TMEM26	Hypomethylated in FP vs FN
cg23696712	0.327	0.656	-0.329	3e-07	KRT79	Hypomethylated in FP vs FN
cg06981182	0.150	0.602	-0.452	3e-07	RNLS	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16922884	0.368	0.699	-0.331	3e-07	NA	Hypomethylated in FP vs FN
cg06087826	0.333	0.690	-0.357	3e-07	NA	Hypomethylated in FP vs FN
cg09304357	0.165	0.532	-0.368	3e-07	NA	Hypomethylated in FP vs FN
cg06038470	0.520	0.852	-0.331	3e-07	NA	Hypomethylated in FP vs FN
cg23744121	0.507	0.783	-0.276	3e-07	NA	Hypomethylated in FP vs FN
cg19640103	0.510	0.832	-0.321	3e-07	NA	Hypomethylated in FP vs FN
cg03185794	0.221	0.571	-0.350	3e-07	NA	Hypomethylated in FP vs FN
cg10089145	0.102	0.560	-0.458	3e-07	NA	Hypomethylated in FP vs FN
cg09338297	0.353	0.745	-0.392	3e-07	NA	Hypomethylated in FP vs FN
cg13197308	0.636	0.915	-0.279	3e-07	NA	Hypomethylated in FP vs FN
cg03441279	0.459	0.793	-0.334	3e-07	NA	Hypomethylated in FP vs FN
cg13953458	0.407	0.741	-0.334	3e-07	NA	Hypomethylated in FP vs FN
cg10612492	0.317	0.729	-0.412	3e-07	NA	Hypomethylated in FP vs FN
cg13220569	0.385	0.758	-0.373	3e-07	KCNA5	Hypomethylated in FP vs FN
cg21396064	0.218	0.578	-0.361	3e-07	MIR193B	Hypomethylated in FP vs FN
cg26886277	0.447	0.764	-0.317	3e-07	REEP1	Hypomethylated in FP vs FN
cg12551582	0.066	0.482	-0.416	3e-07	CHFR	Hypomethylated in FP vs FN
cg17023770	0.397	0.716	-0.319	3e-07	PCDHB15	Hypomethylated in FP vs FN
cg11363097	0.562	0.831	-0.269	3e-07	IDO2	Hypomethylated in FP vs FN
cg10828599	0.427	0.759	-0.332	3e-07	ZNF750	Hypomethylated in FP vs FN
cg18483487	0.201	0.496	-0.295	3e-07	NA	Hypomethylated in FP vs FN
cg15531512	0.284	0.618	-0.334	3e-07	NA	Hypomethylated in FP vs FN
cg27523087	0.354	0.703	-0.350	3e-07	NA	Hypomethylated in FP vs FN
cg04887082	0.237	0.510	-0.273	3e-07	NA	Hypomethylated in FP vs FN
cg08831531	0.446	0.784	-0.337	3e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19795150	0.288	0.628	-0.340	3e-07	OTOS	Hypomethylated in FP vs FN
cg17095936	0.475	0.824	-0.349	3e-07	NA	Hypomethylated in FP vs FN
cg06118999	0.156	0.603	-0.447	3e-07	RNLS	Hypomethylated in FP vs FN
cg08954352	0.335	0.668	-0.334	3e-07	NA	Hypomethylated in FP vs FN
cg12062597	0.437	0.791	-0.353	3e-07	NA	Hypomethylated in FP vs FN
cg02762546	0.373	0.720	-0.347	3e-07	HDAC11	Hypomethylated in FP vs FN
cg26159750	0.447	0.776	-0.329	3e-07	NA	Hypomethylated in FP vs FN
cg03793055	0.520	0.821	-0.301	3e-07	BCAR1	Hypomethylated in FP vs FN
cg25654705	0.485	0.797	-0.313	3e-07	NA	Hypomethylated in FP vs FN
cg10514113	0.399	0.734	-0.335	3e-07	NA	Hypomethylated in FP vs FN
cg00305947	0.383	0.748	-0.366	3e-07	NA	Hypomethylated in FP vs FN
cg25492645	0.231	0.623	-0.393	3e-07	GALNT3	Hypomethylated in FP vs FN
cg14308648	0.628	0.882	-0.254	3e-07	NA	Hypomethylated in FP vs FN
cg01741626	0.277	0.675	-0.399	3e-07	NA	Hypomethylated in FP vs FN
cg18289710	0.396	0.734	-0.338	3e-07	NA	Hypomethylated in FP vs FN
cg13686795	0.349	0.668	-0.318	3e-07	NA	Hypomethylated in FP vs FN
cg14018140	0.403	0.723	-0.319	3e-07	NA	Hypomethylated in FP vs FN
cg27574595	0.398	0.759	-0.361	3e-07	NA	Hypomethylated in FP vs FN
cg00995798	0.184	0.557	-0.373	3e-07	TTC27	Hypomethylated in FP vs FN
cg16516691	0.138	0.570	-0.431	3e-07	ZSWIM2	Hypomethylated in FP vs FN
cg19371121	0.391	0.701	-0.311	3e-07	NA	Hypomethylated in FP vs FN
cg06254938	0.427	0.730	-0.303	3e-07	NA	Hypomethylated in FP vs FN
cg03034634	0.171	0.545	-0.375	3e-07	MTMR9	Hypomethylated in FP vs FN
cg21067632	0.468	0.829	-0.360	3e-07	NA	Hypomethylated in FP vs FN
cg16057826	0.293	0.687	-0.394	3e-07	CLIC6	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07015663	0.276	0.533	-0.257	3e-07	NA	Hypomethylated in FP vs FN
cg19997502	0.236	0.635	-0.399	3e-07	NA	Hypomethylated in FP vs FN
cg07951978	0.078	0.527	-0.448	3e-07	CHFR	Hypomethylated in FP vs FN
cg21885251	0.367	0.737	-0.370	3e-07	NA	Hypomethylated in FP vs FN
cg12219155	0.490	0.812	-0.321	3e-07	NA	Hypomethylated in FP vs FN
cg23964820	0.269	0.606	-0.337	3e-07	NA	Hypomethylated in FP vs FN
cg11965881	0.515	0.821	-0.306	3e-07	NA	Hypomethylated in FP vs FN
cg25496678	0.249	0.682	-0.433	3e-07	NA	Hypomethylated in FP vs FN
cg27318087	0.470	0.748	-0.279	3e-07	NA	Hypomethylated in FP vs FN
cg05306173	0.548	0.809	-0.262	3e-07	NA	Hypomethylated in FP vs FN
cg16640008	0.464	0.771	-0.307	3e-07	NA	Hypomethylated in FP vs FN
cg16751451	0.395	0.759	-0.364	3e-07	EGFR	Hypomethylated in FP vs FN
cg08530065	0.556	0.811	-0.254	3e-07	NA	Hypomethylated in FP vs FN
cg11362049	0.428	0.771	-0.343	3e-07	NA	Hypomethylated in FP vs FN
cg24990327	0.532	0.821	-0.289	3e-07	MIR548F3	Hypomethylated in FP vs FN
cg00397179	0.352	0.681	-0.329	3e-07	NA	Hypomethylated in FP vs FN
cg19865425	0.288	0.645	-0.357	3e-07	NA	Hypomethylated in FP vs FN
cg06560760	0.146	0.469	-0.324	3e-07	ARMC3	Hypomethylated in FP vs FN
cg05662839	0.477	0.794	-0.317	3e-07	NA	Hypomethylated in FP vs FN
cg27424326	0.607	0.878	-0.271	3e-07	NA	Hypomethylated in FP vs FN
cg06551996	0.284	0.608	-0.325	3e-07	NAV2	Hypomethylated in FP vs FN
cg02102456	0.334	0.697	-0.364	3e-07	NA	Hypomethylated in FP vs FN
cg18669406	0.413	0.736	-0.323	3e-07	NA	Hypomethylated in FP vs FN
cg24727133	0.135	0.573	-0.438	3e-07	CHFR	Hypomethylated in FP vs FN
cg14041921	0.395	0.762	-0.367	3e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09277532	0.365	0.661	-0.296	3e-07	CCDC102A	Hypomethylated in FP vs FN
cg05339066	0.137	0.575	-0.438	3e-07	RNLS	Hypomethylated in FP vs FN
cg20146030	0.118	0.620	-0.502	3e-07	GALNT3	Hypomethylated in FP vs FN
cg18535410	0.397	0.691	-0.294	3e-07	NA	Hypomethylated in FP vs FN
cg02500443	0.298	0.621	-0.323	3e-07	NA	Hypomethylated in FP vs FN
cg03188976	0.231	0.519	-0.288	3e-07	NA	Hypomethylated in FP vs FN
cg09076123	0.465	0.732	-0.267	3e-07	NCF2	Hypomethylated in FP vs FN
cg15996947	0.499	0.800	-0.301	3e-07	L2HGDH	Hypomethylated in FP vs FN
cg23955675	0.492	0.759	-0.267	3e-07	NA	Hypomethylated in FP vs FN
cg05438378	0.236	0.571	-0.335	3e-07	NA	Hypomethylated in FP vs FN
cg14571092	0.347	0.610	-0.263	3e-07	NA	Hypomethylated in FP vs FN
cg09141450	0.390	0.751	-0.361	3e-07	NA	Hypomethylated in FP vs FN
cg10722799	0.118	0.558	-0.440	3e-07	CLIC6	Hypomethylated in FP vs FN
cg21138542	0.367	0.656	-0.289	3e-07	NA	Hypomethylated in FP vs FN
cg15014679	0.456	0.731	-0.275	3e-07	NA	Hypomethylated in FP vs FN
cg17185953	0.192	0.600	-0.407	3e-07	ECHDC2	Hypomethylated in FP vs FN
cg23904955	0.255	0.681	-0.426	3e-07	NA	Hypomethylated in FP vs FN
cg16170838	0.589	0.852	-0.263	3e-07	NA	Hypomethylated in FP vs FN
cg19756358	0.200	0.487	-0.287	3e-07	NA	Hypomethylated in FP vs FN
cg21141329	0.293	0.545	-0.252	3e-07	NA	Hypomethylated in FP vs FN
cg21146652	0.485	0.836	-0.350	3e-07	NA	Hypomethylated in FP vs FN
cg20379007	0.334	0.610	-0.275	3e-07	NA	Hypomethylated in FP vs FN
cg05071677	0.482	0.789	-0.307	3e-07	OR2V2	Hypomethylated in FP vs FN
cg26926765	0.321	0.628	-0.307	3e-07	NA	Hypomethylated in FP vs FN
cg03998104	0.176	0.542	-0.366	3e-07	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23448165	0.472	0.794	-0.322	3e-07	NA	Hypomethylated in FP vs FN
cg00574639	0.501	0.779	-0.278	3e-07	NA	Hypomethylated in FP vs FN
cg08824847	0.441	0.705	-0.264	3e-07	NA	Hypomethylated in FP vs FN
cg19564408	0.390	0.788	-0.398	3e-07	NA	Hypomethylated in FP vs FN
cg25947489	0.500	0.781	-0.281	3e-07	NA	Hypomethylated in FP vs FN
cg01622437	0.110	0.543	-0.433	3e-07	NA	Hypomethylated in FP vs FN
cg15383322	0.206	0.593	-0.386	3e-07	NA	Hypomethylated in FP vs FN
cg27598340	0.656	0.939	-0.283	3e-07	NA	Hypomethylated in FP vs FN
cg24454829	0.243	0.590	-0.347	3e-07	NA	Hypomethylated in FP vs FN
cg25649895	0.550	0.824	-0.274	4e-07	NA	Hypomethylated in FP vs FN
cg05908241	0.285	0.567	-0.282	4e-07	NA	Hypomethylated in FP vs FN
cg24617723	0.139	0.527	-0.388	4e-07	ZSWIM2	Hypomethylated in FP vs FN
cg20567895	0.296	0.713	-0.417	4e-07	NA	Hypomethylated in FP vs FN
cg10850080	0.193	0.613	-0.420	4e-07	CPXM1	Hypomethylated in FP vs FN
cg23812660	0.473	0.835	-0.362	4e-07	NA	Hypomethylated in FP vs FN
cg01443408	0.486	0.794	-0.308	4e-07	NA	Hypomethylated in FP vs FN
cg12868312	0.439	0.776	-0.337	4e-07	NA	Hypomethylated in FP vs FN
cg12513880	0.099	0.568	-0.469	4e-07	NA	Hypomethylated in FP vs FN
cg26947817	0.577	0.868	-0.292	4e-07	NA	Hypomethylated in FP vs FN
cg12200716	0.329	0.656	-0.327	4e-07	NA	Hypomethylated in FP vs FN
cg07147958	0.510	0.823	-0.313	4e-07	NA	Hypomethylated in FP vs FN
cg26639906	0.575	0.886	-0.311	4e-07	NA	Hypomethylated in FP vs FN
cg02109484	0.351	0.762	-0.411	4e-07	C2orf65	Hypomethylated in FP vs FN
cg24805559	0.483	0.805	-0.322	4e-07	NA	Hypomethylated in FP vs FN
cg26114642	0.093	0.513	-0.420	4e-07	TTC27	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10307152	0.398	0.668	-0.270	4e-07	NA	Hypomethylated in FP vs FN
cg00397274	0.539	0.843	-0.304	4e-07	NA	Hypomethylated in FP vs FN
cg04111102	0.226	0.526	-0.300	4e-07	NA	Hypomethylated in FP vs FN
cg06541222	0.204	0.569	-0.365	4e-07	NA	Hypomethylated in FP vs FN
cg18736141	0.219	0.528	-0.309	4e-07	NA	Hypomethylated in FP vs FN
cg24497819	0.465	0.755	-0.291	4e-07	SELPLG	Hypomethylated in FP vs FN
cg18769074	0.163	0.440	-0.277	4e-07	TF	Hypomethylated in FP vs FN
cg05578480	0.344	0.695	-0.351	4e-07	NA	Hypomethylated in FP vs FN
cg01719494	0.448	0.824	-0.376	4e-07	NA	Hypomethylated in FP vs FN
cg13391455	0.418	0.776	-0.358	4e-07	NA	Hypomethylated in FP vs FN
cg04929612	0.321	0.635	-0.314	4e-07	NA	Hypomethylated in FP vs FN
cg02066277	0.528	0.801	-0.274	4e-07	NA	Hypomethylated in FP vs FN
cg04566159	0.230	0.680	-0.450	4e-07	ACP5	Hypomethylated in FP vs FN
cg14494623	0.077	0.488	-0.412	4e-07	NA	Hypomethylated in FP vs FN
cg22879515	0.104	0.643	-0.539	4e-07	MIR34B_BTG4_MIR34C	Hypomethylated in FP vs FN
cg20681321	0.575	0.831	-0.256	4e-07	NA	Hypomethylated in FP vs FN
cg12305265	0.377	0.726	-0.349	4e-07	NA	Hypomethylated in FP vs FN
cg23458843	0.312	0.644	-0.332	4e-07	AGAP2	Hypomethylated in FP vs FN
cg09775533	0.145	0.632	-0.487	4e-07	NA	Hypomethylated in FP vs FN
cg07310406	0.387	0.677	-0.289	4e-07	MLC1	Hypomethylated in FP vs FN
cg19329999	0.560	0.863	-0.303	4e-07	NA	Hypomethylated in FP vs FN
cg10308785	0.167	0.654	-0.487	4e-07	NA	Hypomethylated in FP vs FN
cg06293049	0.577	0.844	-0.267	4e-07	NA	Hypomethylated in FP vs FN
cg24453580	0.086	0.601	-0.515	4e-07	NA	Hypomethylated in FP vs FN
cg16671238	0.491	0.747	-0.256	4e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23677780	0.542	0.803	-0.261	4e-07	NA	Hypomethylated in FP vs FN
cg12948116	0.264	0.698	-0.434	4e-07	NA	Hypomethylated in FP vs FN
cg08065374	0.431	0.756	-0.325	4e-07	NA	Hypomethylated in FP vs FN
cg26992603	0.208	0.618	-0.409	4e-07	NA	Hypomethylated in FP vs FN
cg14744919	0.529	0.843	-0.313	4e-07	NA	Hypomethylated in FP vs FN
cg12488810	0.537	0.798	-0.262	4e-07	NA	Hypomethylated in FP vs FN
cg27545565	0.455	0.759	-0.303	4e-07	NA	Hypomethylated in FP vs FN
cg22329743	0.524	0.834	-0.310	4e-07	NA	Hypomethylated in FP vs FN
cg00865541	0.559	0.824	-0.265	4e-07	NA	Hypomethylated in FP vs FN
cg07459489	0.542	0.823	-0.281	4e-07	SLC30A8	Hypomethylated in FP vs FN
cg25123566	0.207	0.524	-0.317	4e-07	LOC100233209	Hypomethylated in FP vs FN
cg02092102	0.235	0.618	-0.383	4e-07	NA	Hypomethylated in FP vs FN
cg15602972	0.490	0.767	-0.277	4e-07	NA	Hypomethylated in FP vs FN
cg06650364	0.468	0.838	-0.370	4e-07	C4orf52	Hypomethylated in FP vs FN
cg08097359	0.400	0.728	-0.327	4e-07	NA	Hypomethylated in FP vs FN
cg06250135	0.593	0.846	-0.253	4e-07	NA	Hypomethylated in FP vs FN
cg07401516	0.259	0.587	-0.327	4e-07	NA	Hypomethylated in FP vs FN
cg04803843	0.118	0.654	-0.537	4e-07	NA	Hypomethylated in FP vs FN
cg19010441	0.535	0.787	-0.252	4e-07	NA	Hypomethylated in FP vs FN
cg12351906	0.412	0.709	-0.297	4e-07	NA	Hypomethylated in FP vs FN
cg16947583	0.369	0.769	-0.399	4e-07	NA	Hypomethylated in FP vs FN
cg05470554	0.247	0.713	-0.466	4e-07	WNT16	Hypomethylated in FP vs FN
cg01035931	0.261	0.589	-0.328	4e-07	NA	Hypomethylated in FP vs FN
cg14049807	0.548	0.851	-0.302	4e-07	NA	Hypomethylated in FP vs FN
cg17786642	0.186	0.641	-0.454	4e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06746492	0.534	0.823	-0.289	4e-07	SCN7A	Hypomethylated in FP vs FN
cg05807157	0.409	0.730	-0.321	4e-07	NA	Hypomethylated in FP vs FN
cg05217213	0.535	0.803	-0.267	4e-07	AKIRIN2	Hypomethylated in FP vs FN
cg05802073	0.219	0.504	-0.285	4e-07	NA	Hypomethylated in FP vs FN
cg13849232	0.466	0.768	-0.302	4e-07	NA	Hypomethylated in FP vs FN
cg01181499	0.484	0.788	-0.303	4e-07	NA	Hypomethylated in FP vs FN
cg23634401	0.283	0.603	-0.320	4e-07	NA	Hypomethylated in FP vs FN
cg12531611	0.522	0.836	-0.314	4e-07	NA	Hypomethylated in FP vs FN
cg10577819	0.409	0.753	-0.344	4e-07	NA	Hypomethylated in FP vs FN
cg00128386	0.370	0.721	-0.351	4e-07	NA	Hypomethylated in FP vs FN
cg16425726	0.470	0.876	-0.406	4e-07	NA	Hypomethylated in FP vs FN
cg04336905	0.420	0.781	-0.360	4e-07	NA	Hypomethylated in FP vs FN
cg02840092	0.386	0.765	-0.378	4e-07	NA	Hypomethylated in FP vs FN
cg21726618	0.487	0.783	-0.297	4e-07	NA	Hypomethylated in FP vs FN
cg26185500	0.357	0.728	-0.371	4e-07	NA	Hypomethylated in FP vs FN
cg21415035	0.436	0.699	-0.263	4e-07	ACVRL1	Hypomethylated in FP vs FN
cg01226742	0.563	0.825	-0.262	4e-07	NA	Hypomethylated in FP vs FN
cg09155997	0.140	0.588	-0.447	4e-07	NA	Hypomethylated in FP vs FN
cg09789315	0.447	0.718	-0.270	4e-07	NA	Hypomethylated in FP vs FN
cg14472366	0.425	0.788	-0.363	4e-07	NA	Hypomethylated in FP vs FN
cg11603201	0.498	0.783	-0.285	4e-07	NA	Hypomethylated in FP vs FN
cg04470072	0.249	0.613	-0.363	4e-07	PSKH2	Hypomethylated in FP vs FN
cg04763558	0.385	0.739	-0.354	4e-07	NA	Hypomethylated in FP vs FN
cg17888390	0.125	0.643	-0.519	4e-07	NA	Hypomethylated in FP vs FN
cg08083700	0.549	0.831	-0.282	4e-07	CMTM5	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10396546	0.105	0.572	-0.467	4e-07	ZSWIM2	Hypomethylated in FP vs FN
cg22732749	0.380	0.733	-0.353	5e-07	PCDHB15	Hypomethylated in FP vs FN
cg03510511	0.558	0.834	-0.276	5e-07	NA	Hypomethylated in FP vs FN
cg07108118	0.476	0.819	-0.343	5e-07	NA	Hypomethylated in FP vs FN
cg22663660	0.511	0.796	-0.285	5e-07	NA	Hypomethylated in FP vs FN
cg23162167	0.400	0.689	-0.288	5e-07	NA	Hypomethylated in FP vs FN
cg22396878	0.592	0.861	-0.269	5e-07	NA	Hypomethylated in FP vs FN
cg21022732	0.189	0.652	-0.463	5e-07	EFCAB10	Hypomethylated in FP vs FN
cg20099968	0.581	0.847	-0.265	5e-07	NA	Hypomethylated in FP vs FN
cg07667765	0.375	0.656	-0.281	5e-07	NA	Hypomethylated in FP vs FN
cg19027424	0.329	0.587	-0.258	5e-07	NA	Hypomethylated in FP vs FN
cg05927190	0.153	0.571	-0.418	5e-07	NA	Hypomethylated in FP vs FN
cg10692363	0.343	0.673	-0.330	5e-07	NA	Hypomethylated in FP vs FN
cg16936060	0.429	0.752	-0.323	5e-07	HOPX	Hypomethylated in FP vs FN
cg19827923	0.479	0.772	-0.293	5e-07	GPR55	Hypomethylated in FP vs FN
cg20939830	0.380	0.742	-0.362	5e-07	NA	Hypomethylated in FP vs FN
cg23524290	0.415	0.735	-0.320	5e-07	PDE4A	Hypomethylated in FP vs FN
cg23100081	0.352	0.676	-0.324	5e-07	NA	Hypomethylated in FP vs FN
cg19460095	0.387	0.679	-0.292	5e-07	NA	Hypomethylated in FP vs FN
cg02353448	0.454	0.781	-0.327	5e-07	NA	Hypomethylated in FP vs FN
cg14385738	0.250	0.554	-0.304	5e-07	PTPN22	Hypomethylated in FP vs FN
cg00567872	0.381	0.795	-0.414	5e-07	NA	Hypomethylated in FP vs FN
cg17574739	0.317	0.650	-0.333	5e-07	SYCN	Hypomethylated in FP vs FN
cg15644634	0.194	0.458	-0.264	5e-07	NA	Hypomethylated in FP vs FN
cg09247084	0.488	0.745	-0.257	5e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07664061	0.535	0.820	-0.285	5e-07	NA	Hypomethylated in FP vs FN
cg00544557	0.515	0.823	-0.308	5e-07	NA	Hypomethylated in FP vs FN
cg01440070	0.485	0.769	-0.284	5e-07	NA	Hypomethylated in FP vs FN
cg03957547	0.599	0.861	-0.261	5e-07	NA	Hypomethylated in FP vs FN
cg07870541	0.401	0.722	-0.321	5e-07	NA	Hypomethylated in FP vs FN
cg21158795	0.424	0.675	-0.251	5e-07	NA	Hypomethylated in FP vs FN
cg07708487	0.279	0.632	-0.353	5e-07	NA	Hypomethylated in FP vs FN
cg00971827	0.463	0.740	-0.277	5e-07	NA	Hypomethylated in FP vs FN
cg09326843	0.395	0.677	-0.282	5e-07	NA	Hypomethylated in FP vs FN
cg24219974	0.283	0.599	-0.315	5e-07	NA	Hypomethylated in FP vs FN
cg03406106	0.348	0.684	-0.336	5e-07	PKD1L2	Hypomethylated in FP vs FN
cg00497472	0.396	0.741	-0.345	5e-07	NA	Hypomethylated in FP vs FN
cg11773456	0.538	0.817	-0.280	5e-07	NA	Hypomethylated in FP vs FN
cg27571769	0.382	0.664	-0.281	5e-07	NA	Hypomethylated in FP vs FN
cg19542987	0.268	0.724	-0.456	5e-07	ARMC3	Hypomethylated in FP vs FN
cg22102688	0.139	0.497	-0.358	5e-07	NA	Hypomethylated in FP vs FN
cg21595409	0.366	0.652	-0.286	5e-07	NA	Hypomethylated in FP vs FN
cg12382333	0.621	0.874	-0.253	5e-07	NA	Hypomethylated in FP vs FN
cg04296289	0.592	0.851	-0.258	5e-07	NA	Hypomethylated in FP vs FN
cg21090033	0.326	0.706	-0.380	5e-07	TM4SF19	Hypomethylated in FP vs FN
cg19572051	0.571	0.849	-0.278	5e-07	NA	Hypomethylated in FP vs FN
cg08377819	0.303	0.703	-0.401	5e-07	NA	Hypomethylated in FP vs FN
cg10835986	0.440	0.722	-0.282	5e-07	NA	Hypomethylated in FP vs FN
cg22975671	0.235	0.603	-0.368	5e-07	BCL6B	Hypomethylated in FP vs FN
cg05614735	0.233	0.639	-0.406	5e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08870893	0.375	0.711	-0.336	5e-07	C8orf85	Hypomethylated in FP vs FN
cg20982735	0.214	0.605	-0.392	5e-07	PSKH2	Hypomethylated in FP vs FN
cg23787937	0.373	0.778	-0.404	5e-07	NA	Hypomethylated in FP vs FN
cg13908988	0.393	0.735	-0.343	5e-07	NA	Hypomethylated in FP vs FN
cg00041401	0.204	0.465	-0.262	5e-07	PTPN22	Hypomethylated in FP vs FN
cg01520122	0.414	0.800	-0.386	5e-07	CCL7	Hypomethylated in FP vs FN
cg24617568	0.138	0.511	-0.373	5e-07	DPY19L2P4	Hypomethylated in FP vs FN
cg21630608	0.392	0.712	-0.320	5e-07	SFRP2	Hypomethylated in FP vs FN
cg16655240	0.163	0.662	-0.498	5e-07	NA	Hypomethylated in FP vs FN
cg01714342	0.372	0.690	-0.319	5e-07	RIPK3	Hypomethylated in FP vs FN
cg00751332	0.204	0.461	-0.257	5e-07	CABLES1	Hypomethylated in FP vs FN
cg23827488	0.110	0.369	-0.259	5e-07	NA	Hypomethylated in FP vs FN
cg07651189	0.393	0.674	-0.281	5e-07	MEPE	Hypomethylated in FP vs FN
cg04908088	0.332	0.634	-0.302	5e-07	NA	Hypomethylated in FP vs FN
cg13351061	0.450	0.734	-0.284	5e-07	NA	Hypomethylated in FP vs FN
cg25975689	0.281	0.592	-0.311	5e-07	NA	Hypomethylated in FP vs FN
cg26496628	0.358	0.703	-0.345	5e-07	NA	Hypomethylated in FP vs FN
cg11313951	0.479	0.758	-0.278	5e-07	NA	Hypomethylated in FP vs FN
cg18266594	0.456	0.762	-0.306	5e-07	NA	Hypomethylated in FP vs FN
cg11246233	0.432	0.749	-0.317	5e-07	NA	Hypomethylated in FP vs FN
cg14531437	0.552	0.825	-0.273	5e-07	NA	Hypomethylated in FP vs FN
cg18960216	0.548	0.809	-0.262	5e-07	TIAF1	Hypomethylated in FP vs FN
cg26876703	0.590	0.846	-0.257	5e-07	NA	Hypomethylated in FP vs FN
cg17651381	0.222	0.489	-0.267	5e-07	NA	Hypomethylated in FP vs FN
cg17780092	0.338	0.625	-0.287	5e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02867735	0.349	0.624	-0.274	5e-07	NA	Hypomethylated in FP vs FN
cg17774960	0.366	0.732	-0.366	5e-07	NA	Hypomethylated in FP vs FN
cg12106728	0.093	0.557	-0.464	5e-07	NA	Hypomethylated in FP vs FN
cg06827247	0.133	0.593	-0.460	5e-07	C3orf55	Hypomethylated in FP vs FN
cg09642951	0.150	0.589	-0.439	6e-07	EPHA1	Hypomethylated in FP vs FN
cg06516124	0.318	0.701	-0.383	6e-07	NA	Hypomethylated in FP vs FN
cg05477920	0.449	0.726	-0.277	6e-07	NA	Hypomethylated in FP vs FN
cg16389078	0.420	0.743	-0.323	6e-07	NA	Hypomethylated in FP vs FN
cg07844828	0.387	0.718	-0.331	6e-07	NA	Hypomethylated in FP vs FN
cg24087743	0.151	0.649	-0.498	6e-07	NA	Hypomethylated in FP vs FN
cg03715305	0.336	0.619	-0.283	6e-07	NA	Hypomethylated in FP vs FN
cg16086109	0.408	0.706	-0.298	6e-07	DUOXA1	Hypomethylated in FP vs FN
cg15082875	0.459	0.731	-0.273	6e-07	NA	Hypomethylated in FP vs FN
cg12778938	0.582	0.841	-0.259	6e-07	NA	Hypomethylated in FP vs FN
cg14758740	0.442	0.751	-0.308	6e-07	NA	Hypomethylated in FP vs FN
cg08705483	0.375	0.712	-0.337	6e-07	NA	Hypomethylated in FP vs FN
cg09276531	0.548	0.813	-0.265	6e-07	NA	Hypomethylated in FP vs FN
cg01446515	0.200	0.582	-0.382	6e-07	GJB6	Hypomethylated in FP vs FN
cg03064403	0.377	0.709	-0.333	6e-07	NA	Hypomethylated in FP vs FN
cg11692852	0.148	0.569	-0.421	6e-07	MLPH	Hypomethylated in FP vs FN
cg04198125	0.531	0.801	-0.270	6e-07	NA	Hypomethylated in FP vs FN
cg06817454	0.501	0.796	-0.295	6e-07	NA	Hypomethylated in FP vs FN
cg08941639	0.211	0.464	-0.253	6e-07	NA	Hypomethylated in FP vs FN
cg18294691	0.114	0.560	-0.446	6e-07	NA	Hypomethylated in FP vs FN
cg10632209	0.261	0.566	-0.305	6e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08038178	0.384	0.722	-0.338	6e-07	NA	Hypomethylated in FP vs FN
cg06255609	0.542	0.843	-0.301	6e-07	NA	Hypomethylated in FP vs FN
cg14762973	0.131	0.589	-0.458	6e-07	ZSWIM2	Hypomethylated in FP vs FN
cg17075865	0.631	0.889	-0.258	6e-07	NA	Hypomethylated in FP vs FN
cg25750209	0.475	0.765	-0.289	6e-07	NA	Hypomethylated in FP vs FN
cg26864691	0.472	0.813	-0.341	6e-07	NA	Hypomethylated in FP vs FN
cg17246606	0.460	0.773	-0.313	6e-07	NA	Hypomethylated in FP vs FN
cg03507218	0.487	0.747	-0.260	6e-07	NA	Hypomethylated in FP vs FN
cg14485901	0.338	0.601	-0.263	6e-07	NA	Hypomethylated in FP vs FN
cg18612612	0.522	0.782	-0.261	6e-07	NA	Hypomethylated in FP vs FN
cg15359321	0.417	0.692	-0.275	6e-07	NA	Hypomethylated in FP vs FN
cg10640284	0.438	0.765	-0.327	6e-07	SEL1L2	Hypomethylated in FP vs FN
cg22335261	0.468	0.810	-0.341	6e-07	NA	Hypomethylated in FP vs FN
cg17017746	0.299	0.644	-0.345	6e-07	NA	Hypomethylated in FP vs FN
cg05158146	0.491	0.797	-0.306	6e-07	NA	Hypomethylated in FP vs FN
cg20454400	0.201	0.579	-0.378	6e-07	NA	Hypomethylated in FP vs FN
cg26545313	0.380	0.642	-0.262	6e-07	NA	Hypomethylated in FP vs FN
cg25848582	0.531	0.816	-0.285	6e-07	NA	Hypomethylated in FP vs FN
cg26366087	0.493	0.796	-0.302	6e-07	NA	Hypomethylated in FP vs FN
cg26003455	0.243	0.586	-0.343	6e-07	NA	Hypomethylated in FP vs FN
cg05045817	0.279	0.665	-0.386	6e-07	NA	Hypomethylated in FP vs FN
cg18829162	0.559	0.855	-0.296	6e-07	NA	Hypomethylated in FP vs FN
cg12432709	0.547	0.829	-0.282	6e-07	CCDC68	Hypomethylated in FP vs FN
cg19098619	0.328	0.733	-0.405	6e-07	NA	Hypomethylated in FP vs FN
cg22831526	0.318	0.676	-0.358	6e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13855715	0.353	0.739	-0.386	6e-07	NA	Hypomethylated in FP vs FN
cg18533833	0.081	0.495	-0.415	6e-07	CHFR	Hypomethylated in FP vs FN
cg15193782	0.146	0.540	-0.394	6e-07	ARMC3	Hypomethylated in FP vs FN
cg11017804	0.433	0.788	-0.354	6e-07	NA	Hypomethylated in FP vs FN
cg07021288	0.167	0.484	-0.317	6e-07	NA	Hypomethylated in FP vs FN
cg00012692	0.185	0.565	-0.379	6e-07	GJB6	Hypomethylated in FP vs FN
cg10955164	0.252	0.514	-0.262	6e-07	NA	Hypomethylated in FP vs FN
cg08664737	0.534	0.813	-0.279	6e-07	NA	Hypomethylated in FP vs FN
cg20368664	0.516	0.835	-0.319	6e-07	IL16	Hypomethylated in FP vs FN
cg12869334	0.395	0.788	-0.394	6e-07	NA	Hypomethylated in FP vs FN
cg26785954	0.088	0.488	-0.400	6e-07	TMEM26	Hypomethylated in FP vs FN
cg18595174	0.528	0.818	-0.290	6e-07	NA	Hypomethylated in FP vs FN
cg04478905	0.363	0.707	-0.344	6e-07	CLDN14	Hypomethylated in FP vs FN
cg16082644	0.242	0.555	-0.314	6e-07	NA	Hypomethylated in FP vs FN
cg05162320	0.534	0.845	-0.311	6e-07	NA	Hypomethylated in FP vs FN
cg25105522	0.266	0.647	-0.381	6e-07	NA	Hypomethylated in FP vs FN
cg14519294	0.107	0.416	-0.308	6e-07	CHFR	Hypomethylated in FP vs FN
cg26554054	0.480	0.759	-0.279	6e-07	NA	Hypomethylated in FP vs FN
cg03048162	0.386	0.729	-0.343	6e-07	NA	Hypomethylated in FP vs FN
cg04896706	0.189	0.593	-0.403	6e-07	NA	Hypomethylated in FP vs FN
cg01204911	0.310	0.675	-0.365	6e-07	NA	Hypomethylated in FP vs FN
cg20436707	0.574	0.837	-0.262	6e-07	NA	Hypomethylated in FP vs FN
cg03089475	0.352	0.671	-0.319	6e-07	NA	Hypomethylated in FP vs FN
cg19617672	0.183	0.528	-0.344	6e-07	WNT16	Hypomethylated in FP vs FN
cg02149537	0.437	0.786	-0.349	6e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12050358	0.423	0.726	-0.303	6e-07	ARHGAP23	Hypomethylated in FP vs FN
cg25095814	0.233	0.568	-0.334	6e-07	CASP8	Hypomethylated in FP vs FN
cg27642554	0.204	0.632	-0.428	6e-07	NA	Hypomethylated in FP vs FN
cg25480418	0.221	0.526	-0.304	7e-07	NA	Hypomethylated in FP vs FN
cg21253742	0.412	0.666	-0.254	7e-07	NA	Hypomethylated in FP vs FN
cg15972243	0.283	0.621	-0.337	7e-07	RNLS	Hypomethylated in FP vs FN
cg00396910	0.484	0.834	-0.350	7e-07	NA	Hypomethylated in FP vs FN
cg25814969	0.482	0.777	-0.295	7e-07	NA	Hypomethylated in FP vs FN
cg25389874	0.566	0.839	-0.274	7e-07	NA	Hypomethylated in FP vs FN
cg25861066	0.551	0.829	-0.278	7e-07	NA	Hypomethylated in FP vs FN
cg22697574	0.211	0.583	-0.372	7e-07	C1orf94	Hypomethylated in FP vs FN
cg23958373	0.527	0.779	-0.252	7e-07	NA	Hypomethylated in FP vs FN
cg10042846	0.487	0.778	-0.291	7e-07	CCL13	Hypomethylated in FP vs FN
cg02315513	0.259	0.518	-0.259	7e-07	NA	Hypomethylated in FP vs FN
cg23759189	0.354	0.737	-0.382	7e-07	NA	Hypomethylated in FP vs FN
cg13169065	0.226	0.625	-0.399	7e-07	GALNT3	Hypomethylated in FP vs FN
cg00269659	0.376	0.663	-0.287	7e-07	NA	Hypomethylated in FP vs FN
cg15242225	0.370	0.682	-0.312	7e-07	RUNX1	Hypomethylated in FP vs FN
cg03360907	0.348	0.651	-0.302	7e-07	CHRM1	Hypomethylated in FP vs FN
cg20849835	0.423	0.771	-0.348	7e-07	NA	Hypomethylated in FP vs FN
cg05907046	0.129	0.613	-0.484	7e-07	ZSWIM2	Hypomethylated in FP vs FN
cg16201661	0.511	0.768	-0.257	7e-07	NA	Hypomethylated in FP vs FN
cg08529825	0.310	0.595	-0.284	7e-07	NA	Hypomethylated in FP vs FN
cg00790071	0.392	0.700	-0.309	7e-07	NA	Hypomethylated in FP vs FN
cg04035553	0.291	0.576	-0.286	7e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13355574	0.362	0.788	-0.426	7e-07	NA	Hypomethylated in FP vs FN
cg25013052	0.354	0.711	-0.357	7e-07	NA	Hypomethylated in FP vs FN
cg26673975	0.413	0.847	-0.435	7e-07	NA	Hypomethylated in FP vs FN
cg25159149	0.332	0.646	-0.314	7e-07	NA	Hypomethylated in FP vs FN
cg26428825	0.461	0.767	-0.307	7e-07	KCNV2	Hypomethylated in FP vs FN
cg10330187	0.550	0.833	-0.282	7e-07	NA	Hypomethylated in FP vs FN
cg22971402	0.339	0.697	-0.358	7e-07	NA	Hypomethylated in FP vs FN
cg04017102	0.314	0.664	-0.350	7e-07	NA	Hypomethylated in FP vs FN
cg04991214	0.434	0.750	-0.316	7e-07	PFDN2	Hypomethylated in FP vs FN
cg19231602	0.436	0.768	-0.331	7e-07	NA	Hypomethylated in FP vs FN
cg18940674	0.428	0.769	-0.340	7e-07	NA	Hypomethylated in FP vs FN
cg24718722	0.213	0.625	-0.413	7e-07	NA	Hypomethylated in FP vs FN
cg12526346	0.225	0.592	-0.367	7e-07	NA	Hypomethylated in FP vs FN
cg02721947	0.373	0.764	-0.391	7e-07	NA	Hypomethylated in FP vs FN
cg24676071	0.283	0.763	-0.480	7e-07	ADCY1	Hypomethylated in FP vs FN
cg17486860	0.292	0.697	-0.405	7e-07	NA	Hypomethylated in FP vs FN
cg05041871	0.428	0.738	-0.311	7e-07	NA	Hypomethylated in FP vs FN
cg17319956	0.593	0.860	-0.267	7e-07	NA	Hypomethylated in FP vs FN
cg09203312	0.249	0.604	-0.355	7e-07	GJB6	Hypomethylated in FP vs FN
cg17019053	0.368	0.789	-0.420	7e-07	C2orf65	Hypomethylated in FP vs FN
cg02138218	0.461	0.759	-0.298	7e-07	TNN	Hypomethylated in FP vs FN
cg12375903	0.315	0.571	-0.255	7e-07	NA	Hypomethylated in FP vs FN
cg06784198	0.439	0.774	-0.335	7e-07	NA	Hypomethylated in FP vs FN
cg14645880	0.266	0.685	-0.418	7e-07	NA	Hypomethylated in FP vs FN
cg20432384	0.412	0.752	-0.341	7e-07	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04275692	0.219	0.633	-0.414	8e-07	NA	Hypomethylated in FP vs FN
cg18803896	0.549	0.808	-0.259	8e-07	NA	Hypomethylated in FP vs FN
cg11182225	0.268	0.530	-0.262	8e-07	TAC1	Hypomethylated in FP vs FN
cg19696870	0.392	0.785	-0.393	8e-07	NA	Hypomethylated in FP vs FN
cg27382164	0.095	0.536	-0.442	8e-07	CHFR	Hypomethylated in FP vs FN
cg06298480	0.485	0.772	-0.287	8e-07	NA	Hypomethylated in FP vs FN
cg21197233	0.468	0.787	-0.319	8e-07	NA	Hypomethylated in FP vs FN
cg27289662	0.415	0.745	-0.330	8e-07	NA	Hypomethylated in FP vs FN
cg13591783	0.341	0.715	-0.374	8e-07	NA	Hypomethylated in FP vs FN
cg26819718	0.560	0.884	-0.324	8e-07	NA	Hypomethylated in FP vs FN
cg05155775	0.480	0.763	-0.283	8e-07	SLC30A10	Hypomethylated in FP vs FN
cg04754652	0.430	0.766	-0.336	8e-07	GPR171	Hypomethylated in FP vs FN
cg16850192	0.452	0.787	-0.335	8e-07	DSG1	Hypomethylated in FP vs FN
cg16405211	0.429	0.770	-0.341	8e-07	NA	Hypomethylated in FP vs FN
cg22059413	0.505	0.775	-0.270	8e-07	NA	Hypomethylated in FP vs FN
cg03330710	0.184	0.540	-0.356	8e-07	NA	Hypomethylated in FP vs FN
cg23915282	0.270	0.643	-0.373	8e-07	NA	Hypomethylated in FP vs FN
cg08857194	0.420	0.767	-0.347	8e-07	NA	Hypomethylated in FP vs FN
cg19642470	0.318	0.724	-0.407	8e-07	NA	Hypomethylated in FP vs FN
cg21519701	0.587	0.846	-0.259	8e-07	NA	Hypomethylated in FP vs FN
cg13642149	0.527	0.850	-0.322	8e-07	NA	Hypomethylated in FP vs FN
cg12033248	0.491	0.810	-0.319	8e-07	NA	Hypomethylated in FP vs FN
cg14825555	0.297	0.637	-0.340	8e-07	SFN	Hypomethylated in FP vs FN
cg18231184	0.416	0.685	-0.269	8e-07	NA	Hypomethylated in FP vs FN
cg00639615	0.504	0.801	-0.297	8e-07	FANCI	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23895722	0.462	0.715	-0.252	8e-07	C11orf45	Hypomethylated in FP vs FN
cg10081994	0.332	0.633	-0.301	8e-07	NA	Hypomethylated in FP vs FN
cg06830044	0.214	0.575	-0.361	8e-07	NA	Hypomethylated in FP vs FN
cg16351246	0.302	0.710	-0.408	8e-07	NA	Hypomethylated in FP vs FN
cg11308396	0.447	0.702	-0.255	8e-07	NA	Hypomethylated in FP vs FN
cg04706087	0.620	0.879	-0.260	8e-07	NA	Hypomethylated in FP vs FN
cg01399598	0.426	0.787	-0.360	8e-07	NA	Hypomethylated in FP vs FN
cg07070113	0.437	0.715	-0.278	8e-07	C17orf55	Hypomethylated in FP vs FN
cg01437209	0.628	0.881	-0.253	8e-07	NA	Hypomethylated in FP vs FN
cg06484432	0.407	0.732	-0.325	8e-07	NA	Hypomethylated in FP vs FN
cg13378400	0.354	0.660	-0.306	8e-07	NA	Hypomethylated in FP vs FN
cg22559013	0.324	0.678	-0.354	8e-07	MGC27382	Hypomethylated in FP vs FN
cg18192294	0.097	0.556	-0.458	8e-07	RNLS	Hypomethylated in FP vs FN
cg11497924	0.357	0.712	-0.354	8e-07	MACROD2	Hypomethylated in FP vs FN
cg07123022	0.339	0.644	-0.305	8e-07	NA	Hypomethylated in FP vs FN
cg11150191	0.386	0.691	-0.304	8e-07	NA	Hypomethylated in FP vs FN
cg10603296	0.524	0.826	-0.301	8e-07	MIR218-1	Hypomethylated in FP vs FN
cg18686153	0.249	0.608	-0.359	8e-07	NA	Hypomethylated in FP vs FN
cg04898124	0.358	0.669	-0.311	8e-07	NA	Hypomethylated in FP vs FN
cg25560443	0.433	0.767	-0.335	8e-07	NA	Hypomethylated in FP vs FN
cg12879143	0.277	0.616	-0.339	8e-07	NA	Hypomethylated in FP vs FN
cg05923105	0.271	0.589	-0.317	8e-07	NA	Hypomethylated in FP vs FN
cg24890045	0.357	0.699	-0.342	8e-07	NA	Hypomethylated in FP vs FN
cg21537230	0.172	0.543	-0.372	8e-07	NA	Hypomethylated in FP vs FN
cg06502570	0.375	0.822	-0.447	8e-07	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19313402	0.408	0.716	-0.308	9e-07	SLC30A10	Hypomethylated in FP vs FN
cg17820306	0.288	0.638	-0.350	9e-07	NA	Hypomethylated in FP vs FN
cg00149708	0.429	0.774	-0.344	9e-07	SBK2	Hypomethylated in FP vs FN
cg24730915	0.318	0.653	-0.335	9e-07	NA	Hypomethylated in FP vs FN
cg23820560	0.460	0.755	-0.296	9e-07	MYO18B	Hypomethylated in FP vs FN
cg00103448	0.355	0.721	-0.367	9e-07	NA	Hypomethylated in FP vs FN
cg25358289	0.228	0.551	-0.323	9e-07	CD14	Hypomethylated in FP vs FN
cg10115320	0.361	0.712	-0.351	9e-07	NA	Hypomethylated in FP vs FN
cg08875948	0.305	0.728	-0.424	9e-07	NA	Hypomethylated in FP vs FN
cg24030173	0.464	0.715	-0.250	9e-07	NA	Hypomethylated in FP vs FN
cg15613740	0.421	0.674	-0.253	9e-07	NA	Hypomethylated in FP vs FN
cg21841803	0.617	0.875	-0.258	9e-07	NA	Hypomethylated in FP vs FN
cg10152684	0.434	0.806	-0.373	9e-07	NA	Hypomethylated in FP vs FN
cg23303246	0.417	0.682	-0.265	9e-07	NA	Hypomethylated in FP vs FN
cg04597985	0.542	0.839	-0.297	9e-07	NA	Hypomethylated in FP vs FN
cg24058446	0.432	0.762	-0.329	9e-07	NA	Hypomethylated in FP vs FN
cg11044011	0.360	0.645	-0.285	9e-07	RGS12	Hypomethylated in FP vs FN
cg20108357	0.370	0.683	-0.313	9e-07	NA	Hypomethylated in FP vs FN
cg26794221	0.489	0.781	-0.292	9e-07	NA	Hypomethylated in FP vs FN
cg13761419	0.414	0.725	-0.311	9e-07	NA	Hypomethylated in FP vs FN
cg19663795	0.384	0.662	-0.278	9e-07	NA	Hypomethylated in FP vs FN
cg02829712	0.276	0.655	-0.379	9e-07	PCDHA10	Hypomethylated in FP vs FN
cg05601096	0.620	0.883	-0.263	9e-07	GALC	Hypomethylated in FP vs FN
cg16270399	0.478	0.776	-0.299	9e-07	NA	Hypomethylated in FP vs FN
cg22631555	0.353	0.652	-0.299	9e-07	ARMC3	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07548607	0.101	0.595	-0.494	9e-07	ZSWIM2	Hypomethylated in FP vs FN
cg19063061	0.145	0.584	-0.440	9e-07	NA	Hypomethylated in FP vs FN
cg02624836	0.316	0.588	-0.272	9e-07	NA	Hypomethylated in FP vs FN
cg21235075	0.435	0.705	-0.270	9e-07	NA	Hypomethylated in FP vs FN
cg20440891	0.516	0.784	-0.268	9e-07	NA	Hypomethylated in FP vs FN
cg05496768	0.628	0.886	-0.258	9e-07	NA	Hypomethylated in FP vs FN
cg06204229	0.328	0.633	-0.305	9e-07	ITIH4	Hypomethylated in FP vs FN
cg25968937	0.457	0.772	-0.316	9e-07	NA	Hypomethylated in FP vs FN
cg01075271	0.094	0.498	-0.404	9e-07	NA	Hypomethylated in FP vs FN
cg22676843	0.204	0.521	-0.317	9e-07	NA	Hypomethylated in FP vs FN
cg11865296	0.335	0.626	-0.291	9e-07	NA	Hypomethylated in FP vs FN
cg06154313	0.098	0.410	-0.312	9e-07	NA	Hypomethylated in FP vs FN
cg00460916	0.448	0.759	-0.311	9e-07	NA	Hypomethylated in FP vs FN
cg11653176	0.445	0.774	-0.329	9e-07	NA	Hypomethylated in FP vs FN
cg08625568	0.283	0.640	-0.357	1e-06	NA	Hypomethylated in FP vs FN
cg07963563	0.369	0.739	-0.370	1e-06	NA	Hypomethylated in FP vs FN
cg00028515	0.408	0.733	-0.325	1e-06	NA	Hypomethylated in FP vs FN
cg17385318	0.507	0.790	-0.283	1e-06	NA	Hypomethylated in FP vs FN
cg05001531	0.450	0.797	-0.347	1e-06	NA	Hypomethylated in FP vs FN
cg24768137	0.366	0.811	-0.446	1e-06	NA	Hypomethylated in FP vs FN
cg24426483	0.289	0.579	-0.290	1e-06	NA	Hypomethylated in FP vs FN
cg24818566	0.170	0.543	-0.373	1e-06	DBC1	Hypomethylated in FP vs FN
cg08525712	0.511	0.823	-0.311	1e-06	NA	Hypomethylated in FP vs FN
cg05245379	0.309	0.665	-0.356	1e-06	NA	Hypomethylated in FP vs FN
cg07684519	0.439	0.829	-0.390	1e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03101492	0.431	0.761	-0.330	1e-06	SPIC	Hypomethylated in FP vs FN
cg05827089	0.520	0.833	-0.314	1e-06	NA	Hypomethylated in FP vs FN
cg15090262	0.504	0.772	-0.268	1e-06	NA	Hypomethylated in FP vs FN
cg23405457	0.540	0.835	-0.295	1e-06	NA	Hypomethylated in FP vs FN
cg09926907	0.459	0.740	-0.282	1e-06	NA	Hypomethylated in FP vs FN
cg06045757	0.451	0.724	-0.272	1e-06	DSG1	Hypomethylated in FP vs FN
cg09858767	0.519	0.808	-0.289	1e-06	NA	Hypomethylated in FP vs FN
cg14511677	0.350	0.741	-0.392	1e-06	NA	Hypomethylated in FP vs FN
cg09636436	0.534	0.801	-0.267	1e-06	NA	Hypomethylated in FP vs FN
cg11165403	0.171	0.536	-0.365	1e-06	NA	Hypomethylated in FP vs FN
cg04284196	0.437	0.699	-0.262	1e-06	NA	Hypomethylated in FP vs FN
cg22315903	0.453	0.704	-0.250	1e-06	NA	Hypomethylated in FP vs FN
cg00093087	0.484	0.742	-0.258	1e-06	AQP2	Hypomethylated in FP vs FN
cg17722354	0.317	0.626	-0.309	1e-06	NA	Hypomethylated in FP vs FN
cg10137837	0.304	0.679	-0.375	1e-06	NA	Hypomethylated in FP vs FN
cg26370729	0.263	0.682	-0.419	1e-06	NA	Hypomethylated in FP vs FN
cg10799492	0.485	0.754	-0.268	1e-06	NA	Hypomethylated in FP vs FN
cg08355301	0.302	0.693	-0.391	1e-06	CD79B	Hypomethylated in FP vs FN
cg07777540	0.505	0.837	-0.332	1e-06	NA	Hypomethylated in FP vs FN
cg01668281	0.325	0.635	-0.310	1e-06	CLDN14	Hypomethylated in FP vs FN
cg24478733	0.439	0.763	-0.324	1e-06	NA	Hypomethylated in FP vs FN
cg09551938	0.317	0.676	-0.359	1e-06	NA	Hypomethylated in FP vs FN
cg04876124	0.374	0.782	-0.408	1e-06	NA	Hypomethylated in FP vs FN
cg01700504	0.338	0.731	-0.394	1e-06	GJB6	Hypomethylated in FP vs FN
cg08765991	0.260	0.551	-0.291	1e-06	NPPC	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18894440	0.421	0.750	-0.329	1e-06	NA	Hypomethylated in FP vs FN
cg21540530	0.339	0.738	-0.398	1e-06	NA	Hypomethylated in FP vs FN
cg05250119	0.423	0.715	-0.292	1e-06	NA	Hypomethylated in FP vs FN
cg02656891	0.219	0.688	-0.469	1e-06	C1orf94	Hypomethylated in FP vs FN
cg22140793	0.405	0.747	-0.342	1e-06	NA	Hypomethylated in FP vs FN
cg27401945	0.197	0.562	-0.366	1e-06	NA	Hypomethylated in FP vs FN
cg17668731	0.372	0.661	-0.288	1e-06	NA	Hypomethylated in FP vs FN
cg22780174	0.451	0.722	-0.271	1e-06	NA	Hypomethylated in FP vs FN
cg03835709	0.610	0.868	-0.258	1e-06	NA	Hypomethylated in FP vs FN
cg13787356	0.532	0.843	-0.312	1e-06	NA	Hypomethylated in FP vs FN
cg04577249	0.331	0.625	-0.295	1e-06	NA	Hypomethylated in FP vs FN
cg19090861	0.211	0.501	-0.290	1e-06	CD248	Hypomethylated in FP vs FN
cg06847670	0.549	0.827	-0.279	1e-06	NA	Hypomethylated in FP vs FN
cg13544333	0.265	0.598	-0.333	1e-06	NA	Hypomethylated in FP vs FN
cg18333041	0.401	0.741	-0.339	1e-06	NA	Hypomethylated in FP vs FN
cg18807011	0.142	0.502	-0.360	1e-06	NA	Hypomethylated in FP vs FN
cg12866104	0.479	0.780	-0.301	1e-06	NA	Hypomethylated in FP vs FN
cg11666982	0.523	0.794	-0.272	1e-06	NA	Hypomethylated in FP vs FN
cg01454538	0.291	0.636	-0.345	1e-06	NA	Hypomethylated in FP vs FN
cg20910746	0.614	0.864	-0.250	1e-06	BBOX1	Hypomethylated in FP vs FN
cg16556696	0.501	0.801	-0.300	1e-06	NA	Hypomethylated in FP vs FN
cg11113066	0.387	0.772	-0.385	1e-06	NA	Hypomethylated in FP vs FN
cg11143092	0.293	0.670	-0.377	1e-06	NA	Hypomethylated in FP vs FN
cg21624902	0.277	0.640	-0.363	1e-06	NA	Hypomethylated in FP vs FN
cg13065735	0.472	0.774	-0.302	1e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08441269	0.486	0.774	-0.288	1e-06	NA	Hypomethylated in FP vs FN
cg04656009	0.412	0.726	-0.314	1e-06	CCL8	Hypomethylated in FP vs FN
cg14178294	0.484	0.793	-0.309	1e-06	NA	Hypomethylated in FP vs FN
cg22340762	0.483	0.805	-0.322	1e-06	NA	Hypomethylated in FP vs FN
cg06642503	0.426	0.720	-0.295	1e-06	LOC100128675	Hypomethylated in FP vs FN
cg04645545	0.222	0.684	-0.462	1e-06	NA	Hypomethylated in FP vs FN
cg11383474	0.444	0.726	-0.281	1e-06	NA	Hypomethylated in FP vs FN
cg14748795	0.242	0.637	-0.396	1e-06	NA	Hypomethylated in FP vs FN
cg21230565	0.432	0.718	-0.287	1e-06	NA	Hypomethylated in FP vs FN
cg06477663	0.284	0.648	-0.364	1e-06	LCP1	Hypomethylated in FP vs FN
cg18850300	0.514	0.804	-0.289	1e-06	NA	Hypomethylated in FP vs FN
cg15058894	0.378	0.760	-0.382	1e-06	SWAP70	Hypomethylated in FP vs FN
cg22377389	0.178	0.552	-0.374	1e-06	GJB6	Hypomethylated in FP vs FN
cg22540431	0.488	0.785	-0.297	1e-06	NA	Hypomethylated in FP vs FN
cg17998283	0.391	0.649	-0.257	1e-06	NA	Hypomethylated in FP vs FN
cg26365147	0.388	0.719	-0.330	1e-06	NA	Hypomethylated in FP vs FN
cg12741436	0.389	0.674	-0.285	1e-06	NA	Hypomethylated in FP vs FN
cg18835416	0.131	0.532	-0.401	1e-06	TLX2	Hypomethylated in FP vs FN
cg21122370	0.261	0.613	-0.352	1e-06	SLIT3	Hypomethylated in FP vs FN
cg14617020	0.463	0.753	-0.290	1e-06	NA	Hypomethylated in FP vs FN
cg07799386	0.217	0.574	-0.357	1e-06	NA	Hypomethylated in FP vs FN
cg26960083	0.339	0.746	-0.407	1e-06	EPHA1	Hypomethylated in FP vs FN
cg16326242	0.284	0.577	-0.293	1e-06	NA	Hypomethylated in FP vs FN
cg09886931	0.596	0.858	-0.262	1e-06	NA	Hypomethylated in FP vs FN
cg05661164	0.538	0.838	-0.300	1e-06	KRT83	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11376339	0.188	0.507	-0.319	1e-06	NA	Hypomethylated in FP vs FN
cg23339454	0.232	0.597	-0.364	1e-06	NA	Hypomethylated in FP vs FN
cg16668896	0.388	0.660	-0.273	1e-06	NA	Hypomethylated in FP vs FN
cg17170262	0.392	0.679	-0.287	1e-06	NA	Hypomethylated in FP vs FN
cg25364726	0.518	0.815	-0.297	1e-06	C10orf71	Hypomethylated in FP vs FN
cg17493253	0.412	0.753	-0.341	1e-06	NA	Hypomethylated in FP vs FN
cg13426632	0.515	0.780	-0.264	1e-06	NA	Hypomethylated in FP vs FN
cg12033187	0.434	0.737	-0.303	1e-06	NA	Hypomethylated in FP vs FN
cg05697695	0.311	0.672	-0.361	1e-06	NA	Hypomethylated in FP vs FN
cg22461018	0.389	0.720	-0.331	1e-06	MORF4	Hypomethylated in FP vs FN
cg01211065	0.275	0.650	-0.376	1e-06	NA	Hypomethylated in FP vs FN
cg04788769	0.374	0.748	-0.375	1e-06	NA	Hypomethylated in FP vs FN
cg23715029	0.388	0.693	-0.305	1e-06	TRAK1	Hypomethylated in FP vs FN
cg14701643	0.228	0.646	-0.418	1e-06	NA	Hypomethylated in FP vs FN
cg06091881	0.132	0.586	-0.455	1e-06	NA	Hypomethylated in FP vs FN
cg22622123	0.411	0.727	-0.315	1e-06	SLC37A4	Hypomethylated in FP vs FN
cg11186850	0.502	0.837	-0.335	1e-06	ADAM2	Hypomethylated in FP vs FN
cg17732877	0.361	0.709	-0.348	1e-06	NA	Hypomethylated in FP vs FN
cg26485771	0.616	0.886	-0.270	1e-06	NA	Hypomethylated in FP vs FN
cg27576434	0.595	0.848	-0.253	1e-06	NA	Hypomethylated in FP vs FN
cg24076884	0.428	0.754	-0.326	1e-06	PCDHAC2	Hypomethylated in FP vs FN
cg14738348	0.465	0.737	-0.272	1e-06	NA	Hypomethylated in FP vs FN
cg22387578	0.142	0.551	-0.409	1e-06	NA	Hypomethylated in FP vs FN
cg16642360	0.463	0.736	-0.274	1e-06	NA	Hypomethylated in FP vs FN
cg27208052	0.174	0.556	-0.383	1e-06	MMP15	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15353533	0.574	0.826	-0.252	1e-06	NA	Hypomethylated in FP vs FN
cg27504195	0.325	0.738	-0.413	1e-06	NA	Hypomethylated in FP vs FN
cg08614334	0.450	0.702	-0.252	1e-06	NA	Hypomethylated in FP vs FN
cg12174804	0.274	0.723	-0.448	1e-06	NA	Hypomethylated in FP vs FN
cg23254569	0.396	0.660	-0.264	1e-06	NA	Hypomethylated in FP vs FN
cg16500230	0.462	0.729	-0.268	1e-06	NA	Hypomethylated in FP vs FN
cg03358769	0.117	0.553	-0.435	1e-06	C3orf55	Hypomethylated in FP vs FN
cg01351300	0.536	0.814	-0.278	1e-06	NA	Hypomethylated in FP vs FN
cg13336485	0.417	0.743	-0.326	1e-06	NA	Hypomethylated in FP vs FN
cg24466873	0.144	0.586	-0.441	1e-06	NA	Hypomethylated in FP vs FN
cg12426652	0.212	0.637	-0.425	1e-06	CLDN14	Hypomethylated in FP vs FN
cg06147210	0.483	0.826	-0.343	1e-06	NA	Hypomethylated in FP vs FN
cg18219522	0.489	0.757	-0.268	1e-06	NA	Hypomethylated in FP vs FN
cg11494699	0.535	0.812	-0.278	1e-06	RAG1	Hypomethylated in FP vs FN
cg11786623	0.354	0.626	-0.272	1e-06	NA	Hypomethylated in FP vs FN
cg06506523	0.338	0.687	-0.349	1e-06	NA	Hypomethylated in FP vs FN
cg06713076	0.455	0.775	-0.319	1e-06	NA	Hypomethylated in FP vs FN
cg22984769	0.142	0.495	-0.353	1e-06	NA	Hypomethylated in FP vs FN
cg11020821	0.535	0.786	-0.251	1e-06	NA	Hypomethylated in FP vs FN
cg23873200	0.375	0.648	-0.272	1e-06	NA	Hypomethylated in FP vs FN
cg19949955	0.172	0.613	-0.441	1e-06	NA	Hypomethylated in FP vs FN
cg12658495	0.495	0.794	-0.300	1e-06	NA	Hypomethylated in FP vs FN
cg16761390	0.179	0.542	-0.363	1e-06	NA	Hypomethylated in FP vs FN
cg13502474	0.401	0.713	-0.312	1e-06	NA	Hypomethylated in FP vs FN
cg20777398	0.407	0.773	-0.366	1e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16661628	0.208	0.636	-0.428	1e-06	NA	Hypomethylated in FP vs FN
cg24164238	0.382	0.674	-0.293	1e-06	NA	Hypomethylated in FP vs FN
cg01209642	0.451	0.716	-0.264	1e-06	NA	Hypomethylated in FP vs FN
cg26965236	0.437	0.781	-0.344	1e-06	NA	Hypomethylated in FP vs FN
cg09109553	0.487	0.795	-0.308	1e-06	NA	Hypomethylated in FP vs FN
cg24683185	0.333	0.695	-0.362	1e-06	NA	Hypomethylated in FP vs FN
cg12486169	0.257	0.637	-0.379	1e-06	NA	Hypomethylated in FP vs FN
cg10784511	0.418	0.785	-0.366	1e-06	NA	Hypomethylated in FP vs FN
cg01868405	0.150	0.599	-0.449	1e-06	NA	Hypomethylated in FP vs FN
cg01797899	0.544	0.799	-0.255	1e-06	NA	Hypomethylated in FP vs FN
cg26568031	0.516	0.803	-0.287	1e-06	NA	Hypomethylated in FP vs FN
cg16160105	0.382	0.652	-0.270	1e-06	KRT83	Hypomethylated in FP vs FN
cg10050410	0.494	0.784	-0.291	1e-06	NA	Hypomethylated in FP vs FN
cg09486967	0.407	0.745	-0.337	1e-06	NA	Hypomethylated in FP vs FN
cg08763626	0.258	0.512	-0.255	1e-06	KCNAB1	Hypomethylated in FP vs FN
cg05222924	0.144	0.593	-0.450	1e-06	NA	Hypomethylated in FP vs FN
cg23889610	0.534	0.834	-0.300	1e-06	NA	Hypomethylated in FP vs FN
cg13799941	0.322	0.608	-0.286	1e-06	NA	Hypomethylated in FP vs FN
cg14877896	0.309	0.672	-0.363	1e-06	NA	Hypomethylated in FP vs FN
cg16174106	0.478	0.744	-0.266	1e-06	NA	Hypomethylated in FP vs FN
cg01423695	0.382	0.708	-0.326	1e-06	NA	Hypomethylated in FP vs FN
cg22670147	0.175	0.523	-0.347	1e-06	NA	Hypomethylated in FP vs FN
cg07153724	0.286	0.620	-0.334	1e-06	NA	Hypomethylated in FP vs FN
cg09597806	0.311	0.682	-0.371	1e-06	NA	Hypomethylated in FP vs FN
cg05785932	0.514	0.767	-0.253	1e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13730618	0.435	0.714	-0.279	1e-06	NA	Hypomethylated in FP vs FN
cg12401640	0.331	0.682	-0.351	1e-06	NA	Hypomethylated in FP vs FN
cg25948180	0.382	0.696	-0.314	1e-06	PDHX	Hypomethylated in FP vs FN
cg03834055	0.484	0.743	-0.259	1e-06	NA	Hypomethylated in FP vs FN
cg21029769	0.244	0.696	-0.452	1e-06	ST14	Hypomethylated in FP vs FN
cg10624395	0.461	0.775	-0.314	1e-06	NA	Hypomethylated in FP vs FN
cg24649332	0.211	0.508	-0.297	1e-06	SLC13A3	Hypomethylated in FP vs FN
cg18933620	0.426	0.749	-0.323	1e-06	NA	Hypomethylated in FP vs FN
cg12508392	0.302	0.648	-0.345	1e-06	NA	Hypomethylated in FP vs FN
cg15888693	0.350	0.701	-0.352	1e-06	NA	Hypomethylated in FP vs FN
cg05973555	0.350	0.749	-0.399	1e-06	NA	Hypomethylated in FP vs FN
cg02719608	0.255	0.620	-0.365	1e-06	NA	Hypomethylated in FP vs FN
cg02864638	0.407	0.710	-0.303	1e-06	NA	Hypomethylated in FP vs FN
cg18400889	0.615	0.889	-0.274	1e-06	NA	Hypomethylated in FP vs FN
cg10601476	0.385	0.768	-0.382	1e-06	NA	Hypomethylated in FP vs FN
cg12041387	0.166	0.563	-0.397	1e-06	NA	Hypomethylated in FP vs FN
cg16578085	0.316	0.658	-0.342	1e-06	NA	Hypomethylated in FP vs FN
cg22082800	0.292	0.670	-0.377	1e-06	NA	Hypomethylated in FP vs FN
cg03522132	0.181	0.583	-0.403	1e-06	NA	Hypomethylated in FP vs FN
cg24822552	0.492	0.792	-0.300	1e-06	NA	Hypomethylated in FP vs FN
cg11741115	0.566	0.829	-0.263	1e-06	TNN	Hypomethylated in FP vs FN
cg02828779	0.540	0.796	-0.256	1e-06	ACTRT2	Hypomethylated in FP vs FN
cg11006962	0.211	0.598	-0.387	1e-06	NA	Hypomethylated in FP vs FN
cg06197731	0.594	0.848	-0.254	1e-06	NA	Hypomethylated in FP vs FN
cg05349039	0.402	0.698	-0.297	1e-06	NCRNA00175	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10726725	0.597	0.862	-0.265	1e-06	NA	Hypomethylated in FP vs FN
cg27644327	0.500	0.775	-0.274	1e-06	NA	Hypomethylated in FP vs FN
cg22037648	0.261	0.697	-0.436	1e-06	NA	Hypomethylated in FP vs FN
cg01753176	0.408	0.690	-0.282	1e-06	NA	Hypomethylated in FP vs FN
cg04774496	0.098	0.535	-0.437	1e-06	CHFR	Hypomethylated in FP vs FN
cg25506413	0.141	0.533	-0.392	1e-06	NA	Hypomethylated in FP vs FN
cg15943603	0.373	0.716	-0.343	1e-06	NA	Hypomethylated in FP vs FN
cg26104384	0.321	0.601	-0.281	1e-06	NA	Hypomethylated in FP vs FN
cg07872947	0.393	0.723	-0.329	1e-06	NA	Hypomethylated in FP vs FN
cg23391090	0.297	0.659	-0.362	1e-06	NA	Hypomethylated in FP vs FN
cg01558403	0.309	0.606	-0.297	1e-06	NA	Hypomethylated in FP vs FN
cg03165356	0.319	0.621	-0.303	1e-06	NA	Hypomethylated in FP vs FN
cg10992219	0.494	0.770	-0.275	1e-06	NA	Hypomethylated in FP vs FN
cg13716619	0.482	0.787	-0.306	1e-06	NA	Hypomethylated in FP vs FN
cg09241368	0.565	0.870	-0.305	1e-06	NA	Hypomethylated in FP vs FN
cg26767389	0.439	0.757	-0.318	1e-06	NA	Hypomethylated in FP vs FN
cg12445309	0.347	0.694	-0.347	1e-06	NA	Hypomethylated in FP vs FN
cg00686404	0.409	0.737	-0.328	1e-06	LCTL	Hypomethylated in FP vs FN
cg14744463	0.442	0.718	-0.276	1e-06	NA	Hypomethylated in FP vs FN
cg09622715	0.421	0.696	-0.274	1e-06	NA	Hypomethylated in FP vs FN
cg19268976	0.378	0.693	-0.315	1e-06	NA	Hypomethylated in FP vs FN
cg01734062	0.371	0.726	-0.355	1e-06	TMEM92	Hypomethylated in FP vs FN
cg11738921	0.505	0.756	-0.250	1e-06	NA	Hypomethylated in FP vs FN
cg22504175	0.179	0.564	-0.385	1e-06	NA	Hypomethylated in FP vs FN
cg04003772	0.470	0.762	-0.292	1e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17173896	0.361	0.668	-0.307	1e-06	NA	Hypomethylated in FP vs FN
cg20294328	0.558	0.847	-0.289	1e-06	NA	Hypomethylated in FP vs FN
cg16566595	0.579	0.864	-0.285	1e-06	WBP11P1	Hypomethylated in FP vs FN
cg20084577	0.341	0.656	-0.314	1e-06	STARD13	Hypomethylated in FP vs FN
cg23067881	0.289	0.614	-0.325	1e-06	NA	Hypomethylated in FP vs FN
cg02729303	0.336	0.640	-0.304	1e-06	FAM134B	Hypomethylated in FP vs FN
cg07878085	0.411	0.725	-0.313	1e-06	NA	Hypomethylated in FP vs FN
cg14923398	0.246	0.679	-0.432	1e-06	NA	Hypomethylated in FP vs FN
cg10504885	0.303	0.664	-0.361	2e-06	NA	Hypomethylated in FP vs FN
cg21243631	0.304	0.554	-0.250	2e-06	NA	Hypomethylated in FP vs FN
cg19243826	0.318	0.670	-0.352	2e-06	NA	Hypomethylated in FP vs FN
cg11712188	0.455	0.769	-0.314	2e-06	NA	Hypomethylated in FP vs FN
cg05588341	0.388	0.698	-0.310	2e-06	NA	Hypomethylated in FP vs FN
cg21881253	0.112	0.594	-0.482	2e-06	MIR34B_BTG4_MIR34C	Hypomethylated in FP vs FN
cg24217704	0.152	0.629	-0.477	2e-06	GALNT3	Hypomethylated in FP vs FN
cg16445268	0.387	0.670	-0.283	2e-06	NA	Hypomethylated in FP vs FN
cg05837727	0.128	0.430	-0.302	2e-06	NA	Hypomethylated in FP vs FN
cg25016420	0.384	0.677	-0.293	2e-06	SPTLC3	Hypomethylated in FP vs FN
cg26410484	0.162	0.552	-0.390	2e-06	CHFR	Hypomethylated in FP vs FN
cg09857513	0.322	0.680	-0.358	2e-06	WNT16	Hypomethylated in FP vs FN
cg07631681	0.419	0.694	-0.275	2e-06	NA	Hypomethylated in FP vs FN
cg00101629	0.467	0.776	-0.309	2e-06	NA	Hypomethylated in FP vs FN
cg18373354	0.155	0.645	-0.491	2e-06	ST14	Hypomethylated in FP vs FN
cg06122230	0.588	0.863	-0.275	2e-06	NA	Hypomethylated in FP vs FN
cg18809074	0.466	0.734	-0.268	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26275986	0.438	0.738	-0.300	2e-06	NA	Hypomethylated in FP vs FN
cg26074025	0.166	0.444	-0.278	2e-06	NA	Hypomethylated in FP vs FN
cg10131095	0.139	0.472	-0.333	2e-06	RNLS	Hypomethylated in FP vs FN
cg09997271	0.161	0.473	-0.312	2e-06	PDE4A	Hypomethylated in FP vs FN
cg04586579	0.139	0.422	-0.283	2e-06	NA	Hypomethylated in FP vs FN
cg13827582	0.554	0.825	-0.271	2e-06	NA	Hypomethylated in FP vs FN
cg05349062	0.118	0.557	-0.439	2e-06	TLX2	Hypomethylated in FP vs FN
cg16871994	0.131	0.429	-0.298	2e-06	NA	Hypomethylated in FP vs FN
cg08827429	0.484	0.819	-0.335	2e-06	NA	Hypomethylated in FP vs FN
cg06083483	0.195	0.527	-0.331	2e-06	CCL8	Hypomethylated in FP vs FN
cg23465427	0.231	0.535	-0.304	2e-06	NA	Hypomethylated in FP vs FN
cg25349643	0.400	0.768	-0.368	2e-06	MIR181B1	Hypomethylated in FP vs FN
cg17234201	0.324	0.646	-0.321	2e-06	NA	Hypomethylated in FP vs FN
cg20643029	0.263	0.663	-0.400	2e-06	CLDN14	Hypomethylated in FP vs FN
cg09955705	0.282	0.558	-0.276	2e-06	NA	Hypomethylated in FP vs FN
cg16873414	0.371	0.673	-0.302	2e-06	PARVG	Hypomethylated in FP vs FN
cg00633062	0.442	0.719	-0.277	2e-06	LOC100127888	Hypomethylated in FP vs FN
cg13634423	0.412	0.764	-0.351	2e-06	NA	Hypomethylated in FP vs FN
cg05473536	0.385	0.753	-0.368	2e-06	NA	Hypomethylated in FP vs FN
cg11974346	0.490	0.748	-0.258	2e-06	NA	Hypomethylated in FP vs FN
cg25268863	0.328	0.653	-0.324	2e-06	NA	Hypomethylated in FP vs FN
cg13771219	0.483	0.817	-0.334	2e-06	NTN5	Hypomethylated in FP vs FN
cg00470794	0.075	0.473	-0.398	2e-06	CHFR	Hypomethylated in FP vs FN
cg06647928	0.289	0.582	-0.293	2e-06	NA	Hypomethylated in FP vs FN
cg26280695	0.475	0.745	-0.270	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22085751	0.321	0.645	-0.324	2e-06	NA	Hypomethylated in FP vs FN
cg13897914	0.370	0.680	-0.310	2e-06	NDUFAF1	Hypomethylated in FP vs FN
cg07391690	0.436	0.748	-0.312	2e-06	NA	Hypomethylated in FP vs FN
cg11292836	0.282	0.596	-0.314	2e-06	NA	Hypomethylated in FP vs FN
cg19458233	0.529	0.814	-0.285	2e-06	NA	Hypomethylated in FP vs FN
cg06346335	0.441	0.726	-0.285	2e-06	NA	Hypomethylated in FP vs FN
cg24770408	0.485	0.736	-0.252	2e-06	NA	Hypomethylated in FP vs FN
cg08694107	0.588	0.843	-0.256	2e-06	NA	Hypomethylated in FP vs FN
cg17105755	0.527	0.807	-0.280	2e-06	C2orf65	Hypomethylated in FP vs FN
cg10835711	0.483	0.782	-0.299	2e-06	NA	Hypomethylated in FP vs FN
cg03388786	0.234	0.593	-0.359	2e-06	NA	Hypomethylated in FP vs FN
cg05951084	0.223	0.620	-0.397	2e-06	NA	Hypomethylated in FP vs FN
cg07477602	0.524	0.801	-0.277	2e-06	NA	Hypomethylated in FP vs FN
cg21580421	0.518	0.826	-0.307	2e-06	CCDC80	Hypomethylated in FP vs FN
cg12193833	0.301	0.755	-0.454	2e-06	NA	Hypomethylated in FP vs FN
cg11887833	0.317	0.664	-0.347	2e-06	MYH3	Hypomethylated in FP vs FN
cg21221545	0.622	0.885	-0.263	2e-06	NA	Hypomethylated in FP vs FN
cg04229820	0.532	0.792	-0.261	2e-06	RGS13	Hypomethylated in FP vs FN
cg07114009	0.403	0.737	-0.335	2e-06	ZNF750	Hypomethylated in FP vs FN
cg04153551	0.403	0.761	-0.358	2e-06	NA	Hypomethylated in FP vs FN
cg12808664	0.500	0.759	-0.259	2e-06	NA	Hypomethylated in FP vs FN
cg14897298	0.406	0.724	-0.318	2e-06	NA	Hypomethylated in FP vs FN
cg02570354	0.514	0.801	-0.286	2e-06	NA	Hypomethylated in FP vs FN
cg17367596	0.575	0.833	-0.258	2e-06	DKFZp761E198	Hypomethylated in FP vs FN
cg10089081	0.361	0.744	-0.383	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14551881	0.316	0.585	-0.268	2e-06	NA	Hypomethylated in FP vs FN
cg19621338	0.505	0.815	-0.311	2e-06	NA	Hypomethylated in FP vs FN
cg14413904	0.439	0.775	-0.335	2e-06	NA	Hypomethylated in FP vs FN
cg09899041	0.484	0.753	-0.269	2e-06	NA	Hypomethylated in FP vs FN
cg14182890	0.330	0.630	-0.300	2e-06	NA	Hypomethylated in FP vs FN
cg27160524	0.290	0.572	-0.282	2e-06	NA	Hypomethylated in FP vs FN
cg21280510	0.277	0.660	-0.382	2e-06	NA	Hypomethylated in FP vs FN
cg19373545	0.523	0.793	-0.270	2e-06	C1orf113	Hypomethylated in FP vs FN
cg03727754	0.494	0.808	-0.314	2e-06	NA	Hypomethylated in FP vs FN
cg00942293	0.309	0.632	-0.323	2e-06	E2F4_EXOC3L	Hypomethylated in FP vs FN
cg12086464	0.249	0.525	-0.276	2e-06	SH3BP2	Hypomethylated in FP vs FN
cg18754857	0.452	0.746	-0.294	2e-06	NA	Hypomethylated in FP vs FN
cg02431851	0.455	0.775	-0.321	2e-06	NA	Hypomethylated in FP vs FN
cg00717218	0.156	0.550	-0.394	2e-06	PTGER2	Hypomethylated in FP vs FN
cg07610777	0.367	0.704	-0.336	2e-06	GJB6	Hypomethylated in FP vs FN
cg10223066	0.082	0.525	-0.443	2e-06	CHFR	Hypomethylated in FP vs FN
cg21202740	0.422	0.678	-0.256	2e-06	NA	Hypomethylated in FP vs FN
cg06152945	0.264	0.632	-0.368	2e-06	NA	Hypomethylated in FP vs FN
cg02050986	0.195	0.455	-0.260	2e-06	NA	Hypomethylated in FP vs FN
cg21122075	0.321	0.609	-0.288	2e-06	NA	Hypomethylated in FP vs FN
cg08375222	0.432	0.685	-0.254	2e-06	NA	Hypomethylated in FP vs FN
cg01965552	0.313	0.672	-0.359	2e-06	NA	Hypomethylated in FP vs FN
cg17862146	0.304	0.679	-0.376	2e-06	NA	Hypomethylated in FP vs FN
cg21131022	0.380	0.740	-0.360	2e-06	NA	Hypomethylated in FP vs FN
cg04921068	0.344	0.683	-0.339	2e-06	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05949181	0.428	0.745	-0.317	2e-06	NA	Hypomethylated in FP vs FN
cg25071794	0.576	0.845	-0.269	2e-06	NA	Hypomethylated in FP vs FN
cg22012248	0.326	0.619	-0.293	2e-06	NA	Hypomethylated in FP vs FN
cg15923943	0.365	0.668	-0.303	2e-06	NA	Hypomethylated in FP vs FN
cg13280108	0.325	0.652	-0.327	2e-06	NA	Hypomethylated in FP vs FN
cg07222309	0.165	0.522	-0.357	2e-06	NA	Hypomethylated in FP vs FN
cg16164607	0.401	0.718	-0.318	2e-06	NA	Hypomethylated in FP vs FN
cg00925244	0.469	0.757	-0.287	2e-06	NA	Hypomethylated in FP vs FN
cg13366863	0.323	0.671	-0.348	2e-06	NA	Hypomethylated in FP vs FN
cg07782620	0.362	0.702	-0.339	2e-06	NA	Hypomethylated in FP vs FN
cg27643890	0.360	0.650	-0.289	2e-06	NA	Hypomethylated in FP vs FN
cg22486630	0.599	0.876	-0.277	2e-06	NA	Hypomethylated in FP vs FN
cg06195987	0.249	0.657	-0.408	2e-06	NA	Hypomethylated in FP vs FN
cg16863382	0.479	0.795	-0.316	2e-06	CTRB1	Hypomethylated in FP vs FN
cg26353598	0.393	0.724	-0.331	2e-06	NA	Hypomethylated in FP vs FN
cg24371114	0.336	0.636	-0.300	2e-06	NA	Hypomethylated in FP vs FN
cg14335434	0.509	0.800	-0.291	2e-06	NA	Hypomethylated in FP vs FN
cg10063575	0.415	0.696	-0.281	2e-06	NA	Hypomethylated in FP vs FN
cg07211768	0.349	0.704	-0.355	2e-06	NA	Hypomethylated in FP vs FN
cg13484329	0.358	0.653	-0.295	2e-06	NA	Hypomethylated in FP vs FN
cg12357484	0.332	0.651	-0.319	2e-06	NA	Hypomethylated in FP vs FN
cg24879087	0.438	0.756	-0.318	2e-06	NA	Hypomethylated in FP vs FN
cg15325154	0.350	0.695	-0.345	2e-06	MGC26647	Hypomethylated in FP vs FN
cg18009508	0.509	0.824	-0.315	2e-06	NA	Hypomethylated in FP vs FN
cg12076931	0.458	0.715	-0.257	2e-06	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04292660	0.522	0.797	-0.274	2e-06	NA	Hypomethylated in FP vs FN
cg15541630	0.322	0.697	-0.375	2e-06	PSKH2	Hypomethylated in FP vs FN
cg08541054	0.438	0.753	-0.316	2e-06	NA	Hypomethylated in FP vs FN
cg01291854	0.283	0.608	-0.325	2e-06	NA	Hypomethylated in FP vs FN
cg14078070	0.562	0.822	-0.260	2e-06	NA	Hypomethylated in FP vs FN
cg07022478	0.450	0.741	-0.290	2e-06	NA	Hypomethylated in FP vs FN
cg22511262	0.161	0.599	-0.438	2e-06	NA	Hypomethylated in FP vs FN
cg06943668	0.471	0.800	-0.328	2e-06	NA	Hypomethylated in FP vs FN
cg13884376	0.504	0.807	-0.302	2e-06	NA	Hypomethylated in FP vs FN
cg00580497	0.298	0.570	-0.272	2e-06	NA	Hypomethylated in FP vs FN
cg05281206	0.308	0.703	-0.394	2e-06	CCL13	Hypomethylated in FP vs FN
cg06197836	0.361	0.669	-0.308	2e-06	NA	Hypomethylated in FP vs FN
cg25339815	0.494	0.776	-0.282	2e-06	NA	Hypomethylated in FP vs FN
cg13810457	0.323	0.667	-0.343	2e-06	NA	Hypomethylated in FP vs FN
cg17608490	0.236	0.654	-0.418	2e-06	NA	Hypomethylated in FP vs FN
cg19229651	0.560	0.849	-0.289	2e-06	NA	Hypomethylated in FP vs FN
cg27223891	0.611	0.867	-0.256	2e-06	NA	Hypomethylated in FP vs FN
cg11081894	0.427	0.727	-0.301	2e-06	NA	Hypomethylated in FP vs FN
cg03693706	0.487	0.754	-0.267	2e-06	NA	Hypomethylated in FP vs FN
cg11368643	0.409	0.726	-0.316	2e-06	PCDHB15	Hypomethylated in FP vs FN
cg22957360	0.284	0.691	-0.407	2e-06	NA	Hypomethylated in FP vs FN
cg14684166	0.389	0.688	-0.299	2e-06	NA	Hypomethylated in FP vs FN
cg18334819	0.567	0.832	-0.265	2e-06	NA	Hypomethylated in FP vs FN
cg15596932	0.515	0.816	-0.301	2e-06	SOST	Hypomethylated in FP vs FN
cg22573590	0.318	0.619	-0.301	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22202031	0.108	0.465	-0.357	2e-06	CHFR	Hypomethylated in FP vs FN
cg19589396	0.395	0.685	-0.291	2e-06	NA	Hypomethylated in FP vs FN
cg12849787	0.558	0.840	-0.282	2e-06	NA	Hypomethylated in FP vs FN
cg03516599	0.418	0.740	-0.322	2e-06	NA	Hypomethylated in FP vs FN
cg06636938	0.425	0.708	-0.283	2e-06	NA	Hypomethylated in FP vs FN
cg17643864	0.126	0.519	-0.394	2e-06	NA	Hypomethylated in FP vs FN
cg04877287	0.517	0.820	-0.303	2e-06	NA	Hypomethylated in FP vs FN
cg07969419	0.471	0.812	-0.342	2e-06	NA	Hypomethylated in FP vs FN
cg07576363	0.226	0.566	-0.340	2e-06	NA	Hypomethylated in FP vs FN
cg10497345	0.483	0.764	-0.281	2e-06	NA	Hypomethylated in FP vs FN
cg15931921	0.427	0.746	-0.319	2e-06	NA	Hypomethylated in FP vs FN
cg26524256	0.535	0.796	-0.261	2e-06	NA	Hypomethylated in FP vs FN
cg21061960	0.283	0.568	-0.285	2e-06	NA	Hypomethylated in FP vs FN
cg20932053	0.565	0.842	-0.277	2e-06	CPM	Hypomethylated in FP vs FN
cg14754494	0.415	0.704	-0.289	2e-06	NA	Hypomethylated in FP vs FN
cg12220466	0.561	0.833	-0.272	2e-06	NA	Hypomethylated in FP vs FN
cg26676468	0.254	0.623	-0.368	2e-06	NA	Hypomethylated in FP vs FN
cg00840332	0.235	0.711	-0.476	2e-06	LEP	Hypomethylated in FP vs FN
cg15988514	0.115	0.530	-0.415	2e-06	NA	Hypomethylated in FP vs FN
cg06873590	0.305	0.619	-0.315	2e-06	NA	Hypomethylated in FP vs FN
cg23387597	0.514	0.789	-0.275	2e-06	ITPRIP	Hypomethylated in FP vs FN
cg02081006	0.337	0.683	-0.346	2e-06	NA	Hypomethylated in FP vs FN
cg04392760	0.621	0.881	-0.260	2e-06	NA	Hypomethylated in FP vs FN
cg19414706	0.189	0.445	-0.256	2e-06	NA	Hypomethylated in FP vs FN
cg15821544	0.529	0.806	-0.277	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06163274	0.420	0.721	-0.302	2e-06	CCDC68	Hypomethylated in FP vs FN
cg25608490	0.305	0.677	-0.372	2e-06	WNT16	Hypomethylated in FP vs FN
cg04130108	0.524	0.836	-0.312	2e-06	NA	Hypomethylated in FP vs FN
cg05326036	0.462	0.832	-0.370	2e-06	NA	Hypomethylated in FP vs FN
cg10326031	0.517	0.805	-0.288	2e-06	IGFBP1	Hypomethylated in FP vs FN
cg14042601	0.487	0.793	-0.306	2e-06	NA	Hypomethylated in FP vs FN
cg27160726	0.309	0.593	-0.285	2e-06	NA	Hypomethylated in FP vs FN
cg16811771	0.412	0.762	-0.350	2e-06	NA	Hypomethylated in FP vs FN
cg17446371	0.186	0.539	-0.353	2e-06	NA	Hypomethylated in FP vs FN
cg26793720	0.261	0.584	-0.323	2e-06	NA	Hypomethylated in FP vs FN
cg00021256	0.258	0.638	-0.380	2e-06	NA	Hypomethylated in FP vs FN
cg26165269	0.110	0.585	-0.475	2e-06	NA	Hypomethylated in FP vs FN
cg19787448	0.249	0.665	-0.416	2e-06	NA	Hypomethylated in FP vs FN
cg13228314	0.523	0.792	-0.269	2e-06	NA	Hypomethylated in FP vs FN
cg16962557	0.338	0.641	-0.303	2e-06	NA	Hypomethylated in FP vs FN
cg08194458	0.241	0.495	-0.253	2e-06	NA	Hypomethylated in FP vs FN
cg25555059	0.296	0.686	-0.389	2e-06	SLC27A6	Hypomethylated in FP vs FN
cg13648550	0.436	0.765	-0.329	2e-06	NA	Hypomethylated in FP vs FN
cg23257697	0.385	0.711	-0.326	2e-06	NA	Hypomethylated in FP vs FN
cg10694914	0.480	0.773	-0.293	2e-06	POU2AF1	Hypomethylated in FP vs FN
cg14795163	0.442	0.727	-0.285	2e-06	NA	Hypomethylated in FP vs FN
cg05234326	0.364	0.659	-0.295	2e-06	NA	Hypomethylated in FP vs FN
cg13767940	0.281	0.656	-0.376	2e-06	MIR34B_BTG4_MIR34C	Hypomethylated in FP vs FN
cg09317772	0.450	0.722	-0.272	2e-06	NME2	Hypomethylated in FP vs FN
cg11348257	0.522	0.806	-0.283	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14311523	0.442	0.784	-0.342	2e-06	NA	Hypomethylated in FP vs FN
cg04253799	0.467	0.742	-0.274	2e-06	NA	Hypomethylated in FP vs FN
cg17169998	0.256	0.602	-0.346	2e-06	MLC1	Hypomethylated in FP vs FN
cg06248767	0.160	0.558	-0.398	2e-06	NA	Hypomethylated in FP vs FN
cg23725454	0.270	0.548	-0.278	2e-06	GSTP1	Hypomethylated in FP vs FN
cg26021246	0.264	0.682	-0.418	2e-06	ST14	Hypomethylated in FP vs FN
cg25117092	0.470	0.743	-0.273	2e-06	NA	Hypomethylated in FP vs FN
cg09190188	0.127	0.435	-0.307	2e-06	NA	Hypomethylated in FP vs FN
cg17912370	0.075	0.534	-0.459	2e-06	C3orf55	Hypomethylated in FP vs FN
cg08541962	0.313	0.566	-0.254	2e-06	GJD4	Hypomethylated in FP vs FN
cg04987122	0.438	0.814	-0.377	2e-06	NA	Hypomethylated in FP vs FN
cg02785332	0.508	0.821	-0.313	2e-06	NA	Hypomethylated in FP vs FN
cg18735146	0.369	0.701	-0.332	2e-06	IFT88	Hypomethylated in FP vs FN
cg24041078	0.130	0.565	-0.435	2e-06	BTG4_MIR34C	Hypomethylated in FP vs FN
cg01578875	0.198	0.526	-0.328	2e-06	NA	Hypomethylated in FP vs FN
cg15854394	0.423	0.772	-0.349	2e-06	NA	Hypomethylated in FP vs FN
cg24825693	0.319	0.632	-0.313	2e-06	NA	Hypomethylated in FP vs FN
cg17484874	0.464	0.723	-0.260	2e-06	NA	Hypomethylated in FP vs FN
cg07903023	0.355	0.693	-0.338	2e-06	NA	Hypomethylated in FP vs FN
cg02812036	0.235	0.576	-0.341	2e-06	YBX2	Hypomethylated in FP vs FN
cg25602520	0.441	0.765	-0.324	2e-06	NA	Hypomethylated in FP vs FN
cg11673092	0.254	0.671	-0.417	2e-06	ARMC3	Hypomethylated in FP vs FN
cg23146180	0.444	0.722	-0.278	2e-06	NA	Hypomethylated in FP vs FN
cg05258736	0.390	0.712	-0.323	2e-06	NA	Hypomethylated in FP vs FN
cg18236617	0.225	0.527	-0.302	2e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22373112	0.344	0.670	-0.326	2e-06	RAB5C	Hypomethylated in FP vs FN
cg03977089	0.158	0.529	-0.372	2e-06	NA	Hypomethylated in FP vs FN
cg13320964	0.509	0.829	-0.320	2e-06	NA	Hypomethylated in FP vs FN
cg05919211	0.498	0.766	-0.268	2e-06	CMTM5	Hypomethylated in FP vs FN
cg14711433	0.459	0.711	-0.253	2e-06	NA	Hypomethylated in FP vs FN
cg10403251	0.395	0.730	-0.335	2e-06	NA	Hypomethylated in FP vs FN
cg01645998	0.245	0.638	-0.393	2e-06	SDR42E1	Hypomethylated in FP vs FN
cg06080250	0.313	0.613	-0.300	2e-06	NA	Hypomethylated in FP vs FN
cg15287353	0.456	0.734	-0.278	2e-06	NA	Hypomethylated in FP vs FN
cg15603885	0.450	0.755	-0.306	2e-06	ABRA	Hypomethylated in FP vs FN
cg26342676	0.561	0.831	-0.270	2e-06	LOC100129794	Hypomethylated in FP vs FN
cg05565537	0.559	0.836	-0.277	2e-06	NA	Hypomethylated in FP vs FN
cg18887769	0.478	0.790	-0.312	2e-06	NA	Hypomethylated in FP vs FN
cg01790523	0.284	0.631	-0.347	2e-06	NA	Hypomethylated in FP vs FN
cg26942930	0.427	0.726	-0.299	2e-06	NA	Hypomethylated in FP vs FN
cg15307891	0.073	0.567	-0.494	2e-06	GALNT3	Hypomethylated in FP vs FN
cg19928046	0.172	0.460	-0.288	2e-06	CD74	Hypomethylated in FP vs FN
cg11791144	0.325	0.728	-0.403	2e-06	NA	Hypomethylated in FP vs FN
cg06320380	0.200	0.525	-0.325	2e-06	NA	Hypomethylated in FP vs FN
cg10232893	0.348	0.632	-0.283	2e-06	NA	Hypomethylated in FP vs FN
cg23208513	0.118	0.566	-0.448	2e-06	RGS22	Hypomethylated in FP vs FN
cg24990131	0.099	0.442	-0.343	2e-06	NA	Hypomethylated in FP vs FN
cg25427871	0.410	0.690	-0.280	2e-06	SLC22A18	Hypomethylated in FP vs FN
cg00035636	0.152	0.577	-0.426	3e-06	NA	Hypomethylated in FP vs FN
cg02613510	0.384	0.730	-0.346	3e-06	BDNF	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17259952	0.198	0.477	-0.280	3e-06	NA	Hypomethylated in FP vs FN
cg11815480	0.253	0.593	-0.340	3e-06	NA	Hypomethylated in FP vs FN
cg13937986	0.460	0.797	-0.337	3e-06	NA	Hypomethylated in FP vs FN
cg10940462	0.299	0.669	-0.370	3e-06	NA	Hypomethylated in FP vs FN
cg01046798	0.421	0.705	-0.284	3e-06	NA	Hypomethylated in FP vs FN
cg24915503	0.308	0.660	-0.352	3e-06	NA	Hypomethylated in FP vs FN
cg05324393	0.438	0.738	-0.300	3e-06	NA	Hypomethylated in FP vs FN
cg08145723	0.285	0.689	-0.404	3e-06	ST14	Hypomethylated in FP vs FN
cg24348573	0.331	0.620	-0.289	3e-06	IL15RA	Hypomethylated in FP vs FN
cg20093489	0.416	0.744	-0.328	3e-06	NA	Hypomethylated in FP vs FN
cg21929875	0.465	0.791	-0.326	3e-06	VSIG2	Hypomethylated in FP vs FN
cg13105327	0.460	0.759	-0.299	3e-06	NA	Hypomethylated in FP vs FN
cg05813788	0.194	0.473	-0.279	3e-06	NA	Hypomethylated in FP vs FN
cg00612299	0.253	0.613	-0.359	3e-06	NA	Hypomethylated in FP vs FN
cg19218509	0.407	0.727	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg03862787	0.271	0.606	-0.336	3e-06	NA	Hypomethylated in FP vs FN
cg01386493	0.325	0.601	-0.277	3e-06	ADRB3	Hypomethylated in FP vs FN
cg01596854	0.384	0.702	-0.318	3e-06	NA	Hypomethylated in FP vs FN
cg06511274	0.516	0.801	-0.285	3e-06	NA	Hypomethylated in FP vs FN
cg00843019	0.429	0.790	-0.360	3e-06	NA	Hypomethylated in FP vs FN
cg20704654	0.612	0.897	-0.285	3e-06	NCRNA00028	Hypomethylated in FP vs FN
cg18128969	0.287	0.702	-0.415	3e-06	NCAM2	Hypomethylated in FP vs FN
cg23946462	0.349	0.704	-0.355	3e-06	NA	Hypomethylated in FP vs FN
cg15822765	0.383	0.800	-0.417	3e-06	NA	Hypomethylated in FP vs FN
cg11795854	0.174	0.664	-0.490	3e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06118245	0.491	0.758	-0.267	3e-06	NA	Hypomethylated in FP vs FN
cg02972941	0.375	0.724	-0.349	3e-06	NA	Hypomethylated in FP vs FN
cg19904905	0.387	0.682	-0.295	3e-06	NA	Hypomethylated in FP vs FN
cg05096751	0.273	0.612	-0.340	3e-06	NA	Hypomethylated in FP vs FN
cg24870966	0.222	0.501	-0.279	3e-06	NA	Hypomethylated in FP vs FN
cg27121661	0.472	0.750	-0.278	3e-06	NA	Hypomethylated in FP vs FN
cg03002479	0.218	0.573	-0.355	3e-06	EPHA1	Hypomethylated in FP vs FN
cg01138164	0.293	0.588	-0.295	3e-06	NA	Hypomethylated in FP vs FN
cg20659752	0.429	0.764	-0.335	3e-06	NA	Hypomethylated in FP vs FN
cg09656934	0.414	0.737	-0.323	3e-06	NA	Hypomethylated in FP vs FN
cg02526439	0.444	0.765	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg01554437	0.176	0.543	-0.367	3e-06	NA	Hypomethylated in FP vs FN
cg10131699	0.505	0.791	-0.286	3e-06	NA	Hypomethylated in FP vs FN
cg08410691	0.360	0.647	-0.288	3e-06	NA	Hypomethylated in FP vs FN
cg08678044	0.329	0.649	-0.320	3e-06	CLEC11A	Hypomethylated in FP vs FN
cg25942990	0.405	0.715	-0.311	3e-06	HOXD4_MIR10B	Hypomethylated in FP vs FN
cg23056713	0.539	0.842	-0.303	3e-06	NA	Hypomethylated in FP vs FN
cg11228758	0.300	0.644	-0.344	3e-06	NA	Hypomethylated in FP vs FN
cg09041614	0.464	0.746	-0.283	3e-06	NA	Hypomethylated in FP vs FN
cg15298719	0.372	0.659	-0.288	3e-06	CLDN7	Hypomethylated in FP vs FN
cg17484944	0.235	0.533	-0.298	3e-06	NA	Hypomethylated in FP vs FN
cg06797069	0.394	0.667	-0.273	3e-06	NA	Hypomethylated in FP vs FN
cg00862376	0.181	0.613	-0.432	3e-06	NA	Hypomethylated in FP vs FN
cg03742132	0.624	0.884	-0.260	3e-06	MIR617	Hypomethylated in FP vs FN
cg21687740	0.370	0.721	-0.351	3e-06	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24664929	0.524	0.809	-0.286	3e-06	NA	Hypomethylated in FP vs FN
cg03004417	0.404	0.749	-0.344	3e-06	NA	Hypomethylated in FP vs FN
cg15044073	0.167	0.572	-0.405	3e-06	SWAP70	Hypomethylated in FP vs FN
cg05499376	0.398	0.705	-0.307	3e-06	NA	Hypomethylated in FP vs FN
cg12180551	0.395	0.715	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg25866895	0.406	0.745	-0.339	3e-06	GSTP1	Hypomethylated in FP vs FN
cg11809476	0.379	0.732	-0.353	3e-06	NA	Hypomethylated in FP vs FN
cg04651583	0.519	0.778	-0.259	3e-06	NA	Hypomethylated in FP vs FN
cg10634182	0.422	0.751	-0.329	3e-06	NA	Hypomethylated in FP vs FN
cg22987447	0.121	0.573	-0.451	3e-06	C3orf55	Hypomethylated in FP vs FN
cg14486632	0.474	0.820	-0.346	3e-06	NA	Hypomethylated in FP vs FN
cg24793022	0.489	0.749	-0.259	3e-06	NA	Hypomethylated in FP vs FN
cg06135425	0.349	0.637	-0.288	3e-06	NA	Hypomethylated in FP vs FN
cg12587615	0.280	0.601	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg18148314	0.510	0.771	-0.261	3e-06	NA	Hypomethylated in FP vs FN
cg23942526	0.323	0.681	-0.358	3e-06	NA	Hypomethylated in FP vs FN
cg00587042	0.133	0.474	-0.341	3e-06	NA	Hypomethylated in FP vs FN
cg12772086	0.450	0.732	-0.281	3e-06	NA	Hypomethylated in FP vs FN
cg26803305	0.386	0.697	-0.311	3e-06	NA	Hypomethylated in FP vs FN
cg27235340	0.511	0.822	-0.310	3e-06	NA	Hypomethylated in FP vs FN
cg14029686	0.204	0.659	-0.454	3e-06	NA	Hypomethylated in FP vs FN
cg09270346	0.268	0.567	-0.298	3e-06	NA	Hypomethylated in FP vs FN
cg02776448	0.402	0.702	-0.299	3e-06	NA	Hypomethylated in FP vs FN
cg06349628	0.127	0.544	-0.417	3e-06	NA	Hypomethylated in FP vs FN
cg24643381	0.402	0.742	-0.341	3e-06	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05595469	0.381	0.729	-0.348	3e-06	NA	Hypomethylated in FP vs FN
cg13929065	0.473	0.791	-0.318	3e-06	NA	Hypomethylated in FP vs FN
cg13670091	0.343	0.636	-0.293	3e-06	NA	Hypomethylated in FP vs FN
cg20523466	0.520	0.788	-0.268	3e-06	NA	Hypomethylated in FP vs FN
cg05466596	0.418	0.736	-0.319	3e-06	NA	Hypomethylated in FP vs FN
cg15446391	0.512	0.778	-0.267	3e-06	NA	Hypomethylated in FP vs FN
cg14794191	0.582	0.840	-0.258	3e-06	NA	Hypomethylated in FP vs FN
cg01943577	0.514	0.850	-0.336	3e-06	NA	Hypomethylated in FP vs FN
cg07577267	0.278	0.705	-0.428	3e-06	NA	Hypomethylated in FP vs FN
cg20661080	0.434	0.731	-0.297	3e-06	NA	Hypomethylated in FP vs FN
cg05998930	0.333	0.641	-0.308	3e-06	NA	Hypomethylated in FP vs FN
cg23220533	0.251	0.587	-0.335	3e-06	OVOL1	Hypomethylated in FP vs FN
cg03399655	0.547	0.807	-0.260	3e-06	NA	Hypomethylated in FP vs FN
cg05012661	0.555	0.805	-0.251	3e-06	NA	Hypomethylated in FP vs FN
cg25508679	0.415	0.796	-0.381	3e-06	NA	Hypomethylated in FP vs FN
cg11521325	0.228	0.482	-0.254	3e-06	NA	Hypomethylated in FP vs FN
cg10799668	0.389	0.790	-0.401	3e-06	NA	Hypomethylated in FP vs FN
cg25407540	0.287	0.602	-0.314	3e-06	NA	Hypomethylated in FP vs FN
cg03268012	0.481	0.736	-0.255	3e-06	NA	Hypomethylated in FP vs FN
cg27027655	0.551	0.803	-0.252	3e-06	RAMP3	Hypomethylated in FP vs FN
cg09835740	0.309	0.646	-0.337	3e-06	NA	Hypomethylated in FP vs FN
cg00664743	0.351	0.660	-0.309	3e-06	NA	Hypomethylated in FP vs FN
cg00306284	0.562	0.830	-0.268	3e-06	SLC5A10	Hypomethylated in FP vs FN
cg20752472	0.558	0.830	-0.272	3e-06	NA	Hypomethylated in FP vs FN
cg19463531	0.341	0.644	-0.302	3e-06	PDE6B	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11801727	0.640	0.892	-0.252	3e-06	NA	Hypomethylated in FP vs FN
cg21039380	0.210	0.478	-0.268	3e-06	NA	Hypomethylated in FP vs FN
cg12120205	0.462	0.750	-0.287	3e-06	NA	Hypomethylated in FP vs FN
cg13808240	0.068	0.459	-0.390	3e-06	NA	Hypomethylated in FP vs FN
cg07109438	0.566	0.820	-0.253	3e-06	NA	Hypomethylated in FP vs FN
cg02998075	0.237	0.521	-0.284	3e-06	NA	Hypomethylated in FP vs FN
cg03840289	0.381	0.665	-0.284	3e-06	NA	Hypomethylated in FP vs FN
cg20624698	0.444	0.764	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg12940439	0.189	0.514	-0.325	3e-06	NA	Hypomethylated in FP vs FN
cg25720825	0.392	0.722	-0.330	3e-06	NA	Hypomethylated in FP vs FN
cg05281603	0.169	0.512	-0.343	3e-06	BTG4_C11orf88_MIR34C	Hypomethylated in FP vs FN
cg25136495	0.254	0.680	-0.426	3e-06	NA	Hypomethylated in FP vs FN
cg04306024	0.104	0.543	-0.439	3e-06	NA	Hypomethylated in FP vs FN
cg17519955	0.429	0.745	-0.316	3e-06	NA	Hypomethylated in FP vs FN
cg16667631	0.298	0.674	-0.375	3e-06	NA	Hypomethylated in FP vs FN
cg01446971	0.363	0.711	-0.349	3e-06	NA	Hypomethylated in FP vs FN
cg05211189	0.417	0.698	-0.281	3e-06	NA	Hypomethylated in FP vs FN
cg03877829	0.224	0.566	-0.342	3e-06	NA	Hypomethylated in FP vs FN
cg03459617	0.489	0.760	-0.271	3e-06	DSPP	Hypomethylated in FP vs FN
cg21035669	0.433	0.777	-0.344	3e-06	NA	Hypomethylated in FP vs FN
cg03747657	0.408	0.751	-0.342	3e-06	NA	Hypomethylated in FP vs FN
cg09535027	0.468	0.808	-0.340	3e-06	NA	Hypomethylated in FP vs FN
cg25769889	0.281	0.601	-0.320	3e-06	NA	Hypomethylated in FP vs FN
cg15696462	0.503	0.813	-0.310	3e-06	NA	Hypomethylated in FP vs FN
cg17476910	0.400	0.719	-0.319	3e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06142621	0.396	0.693	-0.297	3e-06	HEPACAM	Hypomethylated in FP vs FN
cg23381232	0.331	0.713	-0.382	3e-06	NA	Hypomethylated in FP vs FN
cg07243405	0.457	0.759	-0.302	3e-06	C7orf20	Hypomethylated in FP vs FN
cg01055075	0.566	0.839	-0.273	3e-06	NA	Hypomethylated in FP vs FN
cg15769475	0.561	0.843	-0.282	3e-06	NA	Hypomethylated in FP vs FN
cg04366815	0.296	0.617	-0.321	3e-06	NA	Hypomethylated in FP vs FN
cg06060731	0.484	0.801	-0.317	3e-06	REEP1	Hypomethylated in FP vs FN
cg27431625	0.530	0.782	-0.252	3e-06	NA	Hypomethylated in FP vs FN
cg16262614	0.065	0.466	-0.402	3e-06	TF	Hypomethylated in FP vs FN
cg13210578	0.367	0.747	-0.380	3e-06	NA	Hypomethylated in FP vs FN
cg17732044	0.115	0.487	-0.371	3e-06	PEX11A	Hypomethylated in FP vs FN
cg03120102	0.386	0.720	-0.333	3e-06	NA	Hypomethylated in FP vs FN
cg18363035	0.313	0.653	-0.340	3e-06	GJB6	Hypomethylated in FP vs FN
cg09701700	0.163	0.435	-0.272	3e-06	MIR146B	Hypomethylated in FP vs FN
cg00236831	0.146	0.628	-0.481	3e-06	ATF7IP	Hypomethylated in FP vs FN
cg04717847	0.459	0.735	-0.276	3e-06	SPTBN5	Hypomethylated in FP vs FN
cg21748874	0.516	0.776	-0.260	3e-06	NA	Hypomethylated in FP vs FN
cg12232463	0.244	0.542	-0.299	3e-06	NA	Hypomethylated in FP vs FN
cg09590377	0.234	0.641	-0.407	3e-06	NA	Hypomethylated in FP vs FN
cg11424198	0.129	0.475	-0.346	3e-06	NA	Hypomethylated in FP vs FN
cg18575221	0.528	0.787	-0.258	3e-06	NA	Hypomethylated in FP vs FN
cg27287305	0.467	0.726	-0.259	3e-06	NA	Hypomethylated in FP vs FN
cg11019771	0.456	0.807	-0.351	3e-06	NA	Hypomethylated in FP vs FN
cg20515672	0.441	0.710	-0.269	3e-06	NA	Hypomethylated in FP vs FN
cg18144692	0.311	0.665	-0.353	3e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09344348	0.482	0.825	-0.343	3e-06	NA	Hypomethylated in FP vs FN
cg15410418	0.436	0.759	-0.322	3e-06	NA	Hypomethylated in FP vs FN
cg25949363	0.272	0.560	-0.288	3e-06	NA	Hypomethylated in FP vs FN
cg05642264	0.369	0.707	-0.338	3e-06	SDK1	Hypomethylated in FP vs FN
cg16087679	0.385	0.669	-0.285	3e-06	NA	Hypomethylated in FP vs FN
cg21983192	0.342	0.710	-0.369	3e-06	NA	Hypomethylated in FP vs FN
cg09695430	0.268	0.672	-0.405	3e-06	NA	Hypomethylated in FP vs FN
cg06628999	0.524	0.791	-0.267	3e-06	NA	Hypomethylated in FP vs FN
cg17778888	0.361	0.783	-0.422	3e-06	NA	Hypomethylated in FP vs FN
cg03655692	0.424	0.741	-0.318	3e-06	NA	Hypomethylated in FP vs FN
cg01941881	0.509	0.782	-0.273	3e-06	NA	Hypomethylated in FP vs FN
cg17788832	0.272	0.526	-0.254	3e-06	NA	Hypomethylated in FP vs FN
cg24512303	0.408	0.743	-0.335	3e-06	HNF4G	Hypomethylated in FP vs FN
cg22660196	0.563	0.835	-0.272	4e-06	NA	Hypomethylated in FP vs FN
cg14253635	0.447	0.803	-0.356	4e-06	NA	Hypomethylated in FP vs FN
cg27143142	0.516	0.816	-0.300	4e-06	NA	Hypomethylated in FP vs FN
cg18220920	0.438	0.721	-0.283	4e-06	NA	Hypomethylated in FP vs FN
cg24332577	0.452	0.716	-0.264	4e-06	SALL4	Hypomethylated in FP vs FN
cg04585389	0.459	0.732	-0.273	4e-06	NA	Hypomethylated in FP vs FN
cg13152535	0.234	0.549	-0.315	4e-06	CLEC11A	Hypomethylated in FP vs FN
cg03687345	0.208	0.581	-0.373	4e-06	NA	Hypomethylated in FP vs FN
cg14140881	0.171	0.606	-0.435	4e-06	EFCAB10	Hypomethylated in FP vs FN
cg22855441	0.460	0.769	-0.309	4e-06	NA	Hypomethylated in FP vs FN
cg24889466	0.193	0.570	-0.377	4e-06	NA	Hypomethylated in FP vs FN
cg00284179	0.464	0.760	-0.296	4e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14503063	0.444	0.750	-0.306	4e-06	NA	Hypomethylated in FP vs FN
cg25309343	0.401	0.664	-0.263	4e-06	CLEC11A	Hypomethylated in FP vs FN
cg26104206	0.259	0.525	-0.266	4e-06	NA	Hypomethylated in FP vs FN
cg16204818	0.148	0.562	-0.414	4e-06	NA	Hypomethylated in FP vs FN
cg18282849	0.286	0.657	-0.371	4e-06	CCDC81	Hypomethylated in FP vs FN
cg15985891	0.381	0.743	-0.363	4e-06	NA	Hypomethylated in FP vs FN
cg16819272	0.421	0.759	-0.338	4e-06	NA	Hypomethylated in FP vs FN
cg07209977	0.466	0.760	-0.294	4e-06	NA	Hypomethylated in FP vs FN
cg16175263	0.252	0.619	-0.367	4e-06	TNFRSF10C	Hypomethylated in FP vs FN
cg18069174	0.637	0.907	-0.270	4e-06	NA	Hypomethylated in FP vs FN
cg02049217	0.371	0.675	-0.304	4e-06	NA	Hypomethylated in FP vs FN
cg22167400	0.370	0.655	-0.285	4e-06	NA	Hypomethylated in FP vs FN
cg07101354	0.339	0.657	-0.318	4e-06	NA	Hypomethylated in FP vs FN
cg05943254	0.357	0.640	-0.283	4e-06	NA	Hypomethylated in FP vs FN
cg07754347	0.397	0.678	-0.281	4e-06	NA	Hypomethylated in FP vs FN
cg03150622	0.246	0.710	-0.465	4e-06	EPHA1	Hypomethylated in FP vs FN
cg08435240	0.436	0.796	-0.360	4e-06	KCNJ15	Hypomethylated in FP vs FN
cg07089275	0.421	0.732	-0.312	4e-06	LOC146336_SSTR5	Hypomethylated in FP vs FN
cg03222632	0.433	0.747	-0.314	4e-06	NA	Hypomethylated in FP vs FN
cg07627452	0.388	0.671	-0.283	4e-06	NA	Hypomethylated in FP vs FN
cg15837280	0.485	0.765	-0.280	4e-06	NA	Hypomethylated in FP vs FN
cg24325551	0.358	0.644	-0.286	4e-06	NA	Hypomethylated in FP vs FN
cg09980176	0.178	0.509	-0.332	4e-06	NA	Hypomethylated in FP vs FN
cg08387293	0.565	0.823	-0.258	4e-06	NA	Hypomethylated in FP vs FN
cg20204986	0.309	0.708	-0.399	4e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15117372	0.241	0.608	-0.367	4e-06	SLC26A8	Hypomethylated in FP vs FN
cg17758363	0.328	0.622	-0.294	4e-06	NA	Hypomethylated in FP vs FN
cg20186473	0.425	0.734	-0.309	4e-06	NA	Hypomethylated in FP vs FN
cg23696864	0.547	0.836	-0.289	4e-06	NA	Hypomethylated in FP vs FN
cg15057138	0.443	0.804	-0.360	4e-06	NA	Hypomethylated in FP vs FN
cg01754525	0.277	0.673	-0.397	4e-06	NA	Hypomethylated in FP vs FN
cg25510823	0.529	0.813	-0.284	4e-06	NA	Hypomethylated in FP vs FN
cg01935096	0.318	0.669	-0.351	4e-06	NA	Hypomethylated in FP vs FN
cg27042523	0.331	0.600	-0.270	4e-06	NA	Hypomethylated in FP vs FN
cg07701567	0.500	0.811	-0.311	4e-06	NA	Hypomethylated in FP vs FN
cg01618806	0.495	0.808	-0.312	4e-06	NA	Hypomethylated in FP vs FN
cg21227610	0.129	0.482	-0.353	4e-06	NA	Hypomethylated in FP vs FN
cg24156181	0.440	0.738	-0.298	4e-06	NA	Hypomethylated in FP vs FN
cg16894819	0.403	0.695	-0.292	4e-06	NA	Hypomethylated in FP vs FN
cg06117072	0.259	0.653	-0.394	4e-06	NA	Hypomethylated in FP vs FN
cg06809439	0.424	0.707	-0.283	4e-06	NA	Hypomethylated in FP vs FN
cg14145801	0.208	0.625	-0.417	4e-06	ZSWIM2	Hypomethylated in FP vs FN
cg03066577	0.100	0.531	-0.432	4e-06	C3orf55	Hypomethylated in FP vs FN
cg12461487	0.507	0.790	-0.283	4e-06	NA	Hypomethylated in FP vs FN
cg15996984	0.377	0.684	-0.307	4e-06	NA	Hypomethylated in FP vs FN
cg12984948	0.451	0.717	-0.266	4e-06	NA	Hypomethylated in FP vs FN
cg01930756	0.420	0.715	-0.295	4e-06	NA	Hypomethylated in FP vs FN
cg14406134	0.568	0.846	-0.278	4e-06	NA	Hypomethylated in FP vs FN
cg15414638	0.314	0.734	-0.420	4e-06	NA	Hypomethylated in FP vs FN
cg23676151	0.209	0.497	-0.288	4e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01621390	0.327	0.661	-0.334	4e-06	NA	Hypomethylated in FP vs FN
cg04757411	0.292	0.649	-0.358	4e-06	NA	Hypomethylated in FP vs FN
cg12279138	0.477	0.737	-0.260	4e-06	DEGS1	Hypomethylated in FP vs FN
cg19561607	0.369	0.621	-0.252	4e-06	BCAT1	Hypomethylated in FP vs FN
cg19854437	0.375	0.662	-0.287	4e-06	NA	Hypomethylated in FP vs FN
cg07094075	0.407	0.716	-0.309	4e-06	TUSC5	Hypomethylated in FP vs FN
cg17132124	0.182	0.574	-0.392	4e-06	KLHDC9	Hypomethylated in FP vs FN
cg20774676	0.375	0.691	-0.317	4e-06	NA	Hypomethylated in FP vs FN
cg04635364	0.461	0.746	-0.285	4e-06	NA	Hypomethylated in FP vs FN
cg06771126	0.266	0.623	-0.357	4e-06	HOPX	Hypomethylated in FP vs FN
cg14720773	0.462	0.761	-0.299	4e-06	NA	Hypomethylated in FP vs FN
cg05780722	0.570	0.822	-0.253	4e-06	NA	Hypomethylated in FP vs FN
cg13336662	0.263	0.597	-0.335	4e-06	NA	Hypomethylated in FP vs FN
cg00464946	0.235	0.567	-0.332	4e-06	NA	Hypomethylated in FP vs FN
cg00565679	0.562	0.816	-0.254	4e-06	NA	Hypomethylated in FP vs FN
cg10757144	0.385	0.722	-0.338	4e-06	PCDHB15	Hypomethylated in FP vs FN
cg05287437	0.455	0.723	-0.269	4e-06	GALNTL2	Hypomethylated in FP vs FN
cg13922124	0.200	0.598	-0.399	4e-06	EFCAB10	Hypomethylated in FP vs FN
cg19843353	0.507	0.776	-0.269	4e-06	TRIM41	Hypomethylated in FP vs FN
cg27028923	0.167	0.495	-0.329	4e-06	NA	Hypomethylated in FP vs FN
cg05404698	0.375	0.798	-0.423	4e-06	NA	Hypomethylated in FP vs FN
cg04087271	0.286	0.622	-0.336	4e-06	CDA	Hypomethylated in FP vs FN
cg27472176	0.397	0.721	-0.324	4e-06	NA	Hypomethylated in FP vs FN
cg15577373	0.189	0.482	-0.293	4e-06	NA	Hypomethylated in FP vs FN
cg15947910	0.419	0.690	-0.271	4e-06	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21108085	0.180	0.449	-0.269	4e-06	NA	Hypomethylated in FP vs FN
cg24454243	0.209	0.566	-0.357	4e-06	EFCAB10	Hypomethylated in FP vs FN
cg24879335	0.152	0.548	-0.396	4e-06	TF	Hypomethylated in FP vs FN
cg16966315	0.171	0.571	-0.400	4e-06	NA	Hypomethylated in FP vs FN
cg14482712	0.452	0.731	-0.279	4e-06	NA	Hypomethylated in FP vs FN
cg15557459	0.438	0.705	-0.267	4e-06	NA	Hypomethylated in FP vs FN
cg02706575	0.513	0.772	-0.259	4e-06	CCL13	Hypomethylated in FP vs FN
cg26540315	0.347	0.686	-0.339	4e-06	NA	Hypomethylated in FP vs FN
cg12060472	0.283	0.712	-0.430	4e-06	ECHDC2	Hypomethylated in FP vs FN
cg21783047	0.327	0.600	-0.274	4e-06	NA	Hypomethylated in FP vs FN
cg03476860	0.255	0.684	-0.429	4e-06	NA	Hypomethylated in FP vs FN
cg25539045	0.121	0.642	-0.521	4e-06	FOXI2	Hypomethylated in FP vs FN
cg27634115	0.556	0.809	-0.253	4e-06	NA	Hypomethylated in FP vs FN
cg25885358	0.174	0.426	-0.252	4e-06	NA	Hypomethylated in FP vs FN
cg12252865	0.244	0.537	-0.293	4e-06	HDAC11	Hypomethylated in FP vs FN
cg13003178	0.388	0.712	-0.324	4e-06	NA	Hypomethylated in FP vs FN
cg11659317	0.200	0.556	-0.356	4e-06	PLEKHH2	Hypomethylated in FP vs FN
cg01663970	0.478	0.760	-0.282	4e-06	NA	Hypomethylated in FP vs FN
cg02032282	0.416	0.688	-0.272	4e-06	NA	Hypomethylated in FP vs FN
cg13316854	0.295	0.615	-0.320	4e-06	HOXD3	Hypomethylated in FP vs FN
cg00425918	0.211	0.583	-0.372	4e-06	NA	Hypomethylated in FP vs FN
cg18031661	0.370	0.721	-0.351	4e-06	NA	Hypomethylated in FP vs FN
cg19494588	0.391	0.690	-0.299	4e-06	NA	Hypomethylated in FP vs FN
cg07185181	0.576	0.847	-0.271	4e-06	NA	Hypomethylated in FP vs FN
cg09834343	0.358	0.712	-0.354	4e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24942416	0.448	0.781	-0.333	4e-06	NA	Hypomethylated in FP vs FN
cg08835113	0.205	0.599	-0.394	4e-06	NA	Hypomethylated in FP vs FN
cg20832020	0.412	0.706	-0.294	4e-06	TIGIT	Hypomethylated in FP vs FN
cg07960624	0.300	0.659	-0.359	4e-06	NA	Hypomethylated in FP vs FN
cg13280882	0.302	0.672	-0.370	4e-06	NA	Hypomethylated in FP vs FN
cg00210186	0.522	0.801	-0.279	4e-06	MCART1	Hypomethylated in FP vs FN
cg09110274	0.396	0.671	-0.275	4e-06	CACNA2D4	Hypomethylated in FP vs FN
cg13830794	0.500	0.762	-0.262	4e-06	NA	Hypomethylated in FP vs FN
cg26414257	0.236	0.552	-0.316	4e-06	NA	Hypomethylated in FP vs FN
cg15239904	0.341	0.657	-0.316	4e-06	NA	Hypomethylated in FP vs FN
cg22514756	0.549	0.806	-0.257	4e-06	NA	Hypomethylated in FP vs FN
cg00119279	0.268	0.528	-0.260	4e-06	NA	Hypomethylated in FP vs FN
cg06217323	0.561	0.840	-0.280	4e-06	NA	Hypomethylated in FP vs FN
cg16068038	0.482	0.747	-0.265	4e-06	C15orf28	Hypomethylated in FP vs FN
cg00524708	0.228	0.637	-0.410	4e-06	NA	Hypomethylated in FP vs FN
cg12426234	0.085	0.340	-0.255	4e-06	NCAM2	Hypomethylated in FP vs FN
cg22579114	0.317	0.611	-0.294	4e-06	NA	Hypomethylated in FP vs FN
cg03695871	0.541	0.834	-0.293	4e-06	DKFZp761E198	Hypomethylated in FP vs FN
cg00366236	0.403	0.690	-0.287	4e-06	NA	Hypomethylated in FP vs FN
cg24667326	0.516	0.787	-0.271	4e-06	SPRR3	Hypomethylated in FP vs FN
cg18565268	0.293	0.581	-0.288	4e-06	NA	Hypomethylated in FP vs FN
cg01416043	0.645	0.914	-0.269	4e-06	KCNF1	Hypomethylated in FP vs FN
cg05386726	0.390	0.718	-0.327	4e-06	NA	Hypomethylated in FP vs FN
cg16501028	0.375	0.705	-0.330	4e-06	NA	Hypomethylated in FP vs FN
cg09951047	0.361	0.731	-0.370	4e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27369542	0.421	0.733	-0.312	4e-06	NA	Hypomethylated in FP vs FN
cg01244601	0.527	0.808	-0.281	5e-06	NA	Hypomethylated in FP vs FN
cg00790395	0.212	0.618	-0.406	5e-06	NA	Hypomethylated in FP vs FN
cg07800658	0.263	0.530	-0.267	5e-06	NA	Hypomethylated in FP vs FN
cg12529228	0.312	0.710	-0.398	5e-06	NHLH1	Hypomethylated in FP vs FN
cg00916635	0.409	0.685	-0.276	5e-06	PTPN22	Hypomethylated in FP vs FN
cg04456238	0.335	0.757	-0.422	5e-06	NA	Hypomethylated in FP vs FN
cg24850121	0.325	0.687	-0.362	5e-06	NA	Hypomethylated in FP vs FN
cg09999194	0.094	0.577	-0.483	5e-06	NA	Hypomethylated in FP vs FN
cg07609372	0.341	0.622	-0.281	5e-06	ASB10	Hypomethylated in FP vs FN
cg09333631	0.283	0.605	-0.322	5e-06	KIF15	Hypomethylated in FP vs FN
cg09862303	0.330	0.626	-0.297	5e-06	NA	Hypomethylated in FP vs FN
cg06649737	0.342	0.716	-0.375	5e-06	KLHDC9	Hypomethylated in FP vs FN
cg00837398	0.246	0.506	-0.260	5e-06	ZNF783	Hypomethylated in FP vs FN
cg05217312	0.362	0.624	-0.263	5e-06	NA	Hypomethylated in FP vs FN
cg27000831	0.450	0.780	-0.330	5e-06	CCL8	Hypomethylated in FP vs FN
cg10124548	0.266	0.617	-0.351	5e-06	NA	Hypomethylated in FP vs FN
cg00496004	0.243	0.524	-0.281	5e-06	ST14	Hypomethylated in FP vs FN
cg27140295	0.454	0.754	-0.301	5e-06	AQP6	Hypomethylated in FP vs FN
cg12518535	0.302	0.566	-0.264	5e-06	NA	Hypomethylated in FP vs FN
cg14130985	0.276	0.642	-0.366	5e-06	NA	Hypomethylated in FP vs FN
cg25429672	0.414	0.735	-0.321	5e-06	NA	Hypomethylated in FP vs FN
cg13209613	0.212	0.509	-0.297	5e-06	NA	Hypomethylated in FP vs FN
cg15756227	0.112	0.398	-0.285	5e-06	NA	Hypomethylated in FP vs FN
cg12192566	0.271	0.522	-0.251	5e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11009335	0.174	0.489	-0.315	5e-06	GALNT3	Hypomethylated in FP vs FN
cg20943084	0.163	0.486	-0.322	5e-06	CD14	Hypomethylated in FP vs FN
cg13655082	0.155	0.602	-0.447	5e-06	NA	Hypomethylated in FP vs FN
cg04563671	0.468	0.751	-0.283	5e-06	NA	Hypomethylated in FP vs FN
cg20572816	0.202	0.515	-0.312	5e-06	NA	Hypomethylated in FP vs FN
cg17586345	0.491	0.797	-0.307	5e-06	NA	Hypomethylated in FP vs FN
cg11231069	0.341	0.681	-0.341	5e-06	NA	Hypomethylated in FP vs FN
cg05347845	0.075	0.513	-0.438	5e-06	ACTA1	Hypomethylated in FP vs FN
cg25745246	0.297	0.710	-0.412	5e-06	NA	Hypomethylated in FP vs FN
cg23311929	0.284	0.614	-0.330	5e-06	NA	Hypomethylated in FP vs FN
cg19777396	0.275	0.609	-0.334	5e-06	NA	Hypomethylated in FP vs FN
cg00256593	0.335	0.598	-0.263	5e-06	ADCYAP1R1	Hypomethylated in FP vs FN
cg02326301	0.390	0.684	-0.294	5e-06	NA	Hypomethylated in FP vs FN
cg24154937	0.536	0.794	-0.258	5e-06	KCNA5	Hypomethylated in FP vs FN
cg26883161	0.311	0.610	-0.299	5e-06	NA	Hypomethylated in FP vs FN
cg11104474	0.239	0.591	-0.352	5e-06	NA	Hypomethylated in FP vs FN
cg23594461	0.372	0.681	-0.309	5e-06	NA	Hypomethylated in FP vs FN
cg07269138	0.311	0.669	-0.358	5e-06	P2RY14	Hypomethylated in FP vs FN
cg17453456	0.305	0.588	-0.283	5e-06	NA	Hypomethylated in FP vs FN
cg10620680	0.455	0.761	-0.307	5e-06	NA	Hypomethylated in FP vs FN
cg13255629	0.543	0.813	-0.270	5e-06	MEPE	Hypomethylated in FP vs FN
cg12435059	0.409	0.670	-0.261	5e-06	NA	Hypomethylated in FP vs FN
cg15073708	0.293	0.555	-0.262	5e-06	NA	Hypomethylated in FP vs FN
cg05621218	0.445	0.812	-0.366	5e-06	NA	Hypomethylated in FP vs FN
cg27390271	0.420	0.726	-0.306	5e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05452406	0.137	0.580	-0.442	5e-06	NA	Hypomethylated in FP vs FN
cg07283816	0.477	0.778	-0.301	5e-06	NA	Hypomethylated in FP vs FN
cg14409940	0.356	0.652	-0.296	5e-06	CIZ1	Hypomethylated in FP vs FN
cg02565878	0.330	0.656	-0.325	5e-06	NA	Hypomethylated in FP vs FN
cg15803018	0.409	0.750	-0.341	5e-06	NA	Hypomethylated in FP vs FN
cg23130369	0.547	0.814	-0.266	5e-06	NA	Hypomethylated in FP vs FN
cg05220092	0.154	0.424	-0.270	5e-06	NA	Hypomethylated in FP vs FN
cg23889772	0.253	0.579	-0.326	5e-06	NA	Hypomethylated in FP vs FN
cg05276226	0.457	0.739	-0.282	5e-06	ADAM18	Hypomethylated in FP vs FN
cg05106502	0.305	0.676	-0.371	5e-06	NA	Hypomethylated in FP vs FN
cg04884612	0.350	0.646	-0.295	5e-06	NA	Hypomethylated in FP vs FN
cg09822192	0.259	0.631	-0.372	5e-06	NA	Hypomethylated in FP vs FN
cg13151527	0.517	0.805	-0.288	5e-06	NA	Hypomethylated in FP vs FN
cg06530563	0.391	0.672	-0.281	5e-06	NA	Hypomethylated in FP vs FN
cg06644721	0.505	0.798	-0.293	5e-06	NA	Hypomethylated in FP vs FN
cg14448169	0.271	0.656	-0.385	5e-06	WNT16	Hypomethylated in FP vs FN
cg06213468	0.282	0.687	-0.405	5e-06	FOXI2	Hypomethylated in FP vs FN
cg12064372	0.216	0.652	-0.436	5e-06	NA	Hypomethylated in FP vs FN
cg03976856	0.225	0.509	-0.284	5e-06	NA	Hypomethylated in FP vs FN
cg17511968	0.211	0.535	-0.324	5e-06	NA	Hypomethylated in FP vs FN
cg11564670	0.558	0.809	-0.251	5e-06	NA	Hypomethylated in FP vs FN
cg11058904	0.381	0.773	-0.392	5e-06	NA	Hypomethylated in FP vs FN
cg03033111	0.296	0.617	-0.321	5e-06	PDE6B	Hypomethylated in FP vs FN
cg26070604	0.480	0.732	-0.251	5e-06	NA	Hypomethylated in FP vs FN
cg07835844	0.121	0.495	-0.373	5e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04655136	0.459	0.779	-0.320	5e-06	NA	Hypomethylated in FP vs FN
cg27097923	0.347	0.627	-0.280	5e-06	TPBG	Hypomethylated in FP vs FN
cg02852847	0.441	0.698	-0.257	5e-06	NA	Hypomethylated in FP vs FN
cg26556196	0.278	0.643	-0.365	5e-06	NA	Hypomethylated in FP vs FN
cg08766770	0.322	0.592	-0.270	5e-06	NA	Hypomethylated in FP vs FN
cg10144924	0.470	0.755	-0.285	5e-06	NA	Hypomethylated in FP vs FN
cg08870143	0.572	0.853	-0.282	5e-06	NA	Hypomethylated in FP vs FN
cg08611163	0.150	0.601	-0.450	5e-06	RNF207	Hypomethylated in FP vs FN
cg01654560	0.453	0.733	-0.280	5e-06	NTM	Hypomethylated in FP vs FN
cg22071067	0.120	0.458	-0.338	5e-06	NA	Hypomethylated in FP vs FN
cg08458745	0.413	0.683	-0.270	5e-06	NA	Hypomethylated in FP vs FN
cg24613691	0.307	0.685	-0.377	5e-06	NA	Hypomethylated in FP vs FN
cg17304457	0.368	0.673	-0.306	5e-06	NA	Hypomethylated in FP vs FN
cg23715830	0.118	0.500	-0.382	5e-06	NA	Hypomethylated in FP vs FN
cg19477689	0.437	0.747	-0.310	5e-06	NA	Hypomethylated in FP vs FN
cg26148020	0.428	0.775	-0.348	5e-06	NA	Hypomethylated in FP vs FN
cg27631256	0.220	0.558	-0.338	5e-06	TNFSF8	Hypomethylated in FP vs FN
cg05849612	0.369	0.670	-0.301	5e-06	NA	Hypomethylated in FP vs FN
cg27275193	0.437	0.732	-0.295	5e-06	NA	Hypomethylated in FP vs FN
cg25906705	0.468	0.796	-0.328	5e-06	NA	Hypomethylated in FP vs FN
cg08234149	0.394	0.707	-0.313	5e-06	NA	Hypomethylated in FP vs FN
cg05234151	0.540	0.803	-0.263	5e-06	NA	Hypomethylated in FP vs FN
cg24870688	0.333	0.743	-0.410	5e-06	NA	Hypomethylated in FP vs FN
cg05257275	0.498	0.762	-0.264	5e-06	DKFZp761E198	Hypomethylated in FP vs FN
cg13603171	0.276	0.646	-0.370	5e-06	MOXD1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09076334	0.189	0.584	-0.395	5e-06	NA	Hypomethylated in FP vs FN
cg07268431	0.467	0.749	-0.283	5e-06	NA	Hypomethylated in FP vs FN
cg09645818	0.293	0.577	-0.284	5e-06	NA	Hypomethylated in FP vs FN
cg25063707	0.412	0.702	-0.290	5e-06	NA	Hypomethylated in FP vs FN
cg08259083	0.399	0.716	-0.317	5e-06	NA	Hypomethylated in FP vs FN
cg00164997	0.377	0.661	-0.284	5e-06	NA	Hypomethylated in FP vs FN
cg16491668	0.417	0.727	-0.310	5e-06	NA	Hypomethylated in FP vs FN
cg09548780	0.168	0.435	-0.267	5e-06	NA	Hypomethylated in FP vs FN
cg25286579	0.576	0.840	-0.264	5e-06	NA	Hypomethylated in FP vs FN
cg11155489	0.262	0.616	-0.354	5e-06	NA	Hypomethylated in FP vs FN
cg07313162	0.342	0.612	-0.270	5e-06	NA	Hypomethylated in FP vs FN
cg25782229	0.289	0.669	-0.380	5e-06	NA	Hypomethylated in FP vs FN
cg04774364	0.355	0.663	-0.308	5e-06	NA	Hypomethylated in FP vs FN
cg00314943	0.468	0.730	-0.262	5e-06	ALPPL2	Hypomethylated in FP vs FN
cg26188226	0.453	0.800	-0.346	5e-06	NA	Hypomethylated in FP vs FN
cg15143037	0.283	0.615	-0.332	5e-06	NA	Hypomethylated in FP vs FN
cg21979773	0.355	0.620	-0.265	5e-06	NA	Hypomethylated in FP vs FN
cg19811253	0.480	0.742	-0.262	5e-06	NA	Hypomethylated in FP vs FN
cg22708248	0.128	0.396	-0.268	5e-06	NPPC	Hypomethylated in FP vs FN
cg12444822	0.335	0.685	-0.350	5e-06	NA	Hypomethylated in FP vs FN
cg26388730	0.264	0.581	-0.317	5e-06	NA	Hypomethylated in FP vs FN
cg24950222	0.343	0.666	-0.323	5e-06	LYPD3	Hypomethylated in FP vs FN
cg04781796	0.374	0.778	-0.405	5e-06	NA	Hypomethylated in FP vs FN
cg11168687	0.410	0.684	-0.273	5e-06	NA	Hypomethylated in FP vs FN
cg05193369	0.228	0.534	-0.306	5e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22325828	0.350	0.682	-0.332	5e-06	LOC90586	Hypomethylated in FP vs FN
cg14886572	0.185	0.453	-0.268	5e-06	NA	Hypomethylated in FP vs FN
cg07558734	0.437	0.724	-0.287	5e-06	NA	Hypomethylated in FP vs FN
cg01216877	0.508	0.794	-0.286	5e-06	NA	Hypomethylated in FP vs FN
cg18634560	0.500	0.812	-0.311	5e-06	NA	Hypomethylated in FP vs FN
cg14444650	0.481	0.740	-0.258	5e-06	NA	Hypomethylated in FP vs FN
cg14465237	0.377	0.675	-0.297	5e-06	CCDC73	Hypomethylated in FP vs FN
cg15343463	0.479	0.802	-0.323	5e-06	NA	Hypomethylated in FP vs FN
cg16906641	0.485	0.803	-0.317	5e-06	NA	Hypomethylated in FP vs FN
cg22344631	0.434	0.743	-0.309	5e-06	NA	Hypomethylated in FP vs FN
cg26738010	0.341	0.599	-0.258	5e-06	CETN1	Hypomethylated in FP vs FN
cg04464446	0.502	0.808	-0.306	5e-06	NA	Hypomethylated in FP vs FN
cg18702935	0.380	0.700	-0.320	6e-06	NA	Hypomethylated in FP vs FN
cg23586659	0.301	0.685	-0.383	6e-06	NA	Hypomethylated in FP vs FN
cg04632378	0.274	0.622	-0.348	6e-06	NA	Hypomethylated in FP vs FN
cg24654266	0.216	0.578	-0.362	6e-06	NA	Hypomethylated in FP vs FN
cg06920037	0.305	0.676	-0.371	6e-06	NA	Hypomethylated in FP vs FN
cg13812731	0.454	0.724	-0.269	6e-06	NA	Hypomethylated in FP vs FN
cg17187163	0.424	0.738	-0.314	6e-06	MLPH	Hypomethylated in FP vs FN
cg09649266	0.368	0.655	-0.287	6e-06	NA	Hypomethylated in FP vs FN
cg18950539	0.138	0.511	-0.373	6e-06	ZSWIM2	Hypomethylated in FP vs FN
cg20962532	0.466	0.750	-0.285	6e-06	KCNJ1	Hypomethylated in FP vs FN
cg12025243	0.332	0.592	-0.259	6e-06	NA	Hypomethylated in FP vs FN
cg21532636	0.205	0.463	-0.258	6e-06	NA	Hypomethylated in FP vs FN
cg26159090	0.520	0.824	-0.304	6e-06	LOC728640	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10872457	0.343	0.645	-0.301	6e-06	NA	Hypomethylated in FP vs FN
cg26266786	0.499	0.774	-0.275	6e-06	NA	Hypomethylated in FP vs FN
cg26444951	0.568	0.865	-0.297	6e-06	NA	Hypomethylated in FP vs FN
cg04122873	0.394	0.785	-0.392	6e-06	NA	Hypomethylated in FP vs FN
cg08029281	0.240	0.523	-0.283	6e-06	NA	Hypomethylated in FP vs FN
cg16426459	0.312	0.658	-0.346	6e-06	NA	Hypomethylated in FP vs FN
cg16744996	0.417	0.700	-0.283	6e-06	NA	Hypomethylated in FP vs FN
cg13742752	0.471	0.758	-0.287	6e-06	NA	Hypomethylated in FP vs FN
cg26014185	0.497	0.778	-0.281	6e-06	NA	Hypomethylated in FP vs FN
cg00547530	0.380	0.639	-0.259	6e-06	CLUAP1	Hypomethylated in FP vs FN
cg17980999	0.413	0.737	-0.324	6e-06	NA	Hypomethylated in FP vs FN
cg00820919	0.263	0.559	-0.296	6e-06	PLEKHH2	Hypomethylated in FP vs FN
cg26822551	0.417	0.704	-0.287	6e-06	NA	Hypomethylated in FP vs FN
cg22081832	0.459	0.763	-0.303	6e-06	NA	Hypomethylated in FP vs FN
cg14707353	0.498	0.762	-0.264	6e-06	NA	Hypomethylated in FP vs FN
cg00239171	0.495	0.788	-0.293	6e-06	NA	Hypomethylated in FP vs FN
cg07691004	0.288	0.555	-0.267	6e-06	GNRH2	Hypomethylated in FP vs FN
cg13223803	0.464	0.771	-0.307	6e-06	NA	Hypomethylated in FP vs FN
cg10626305	0.336	0.648	-0.312	6e-06	NA	Hypomethylated in FP vs FN
cg13688786	0.394	0.728	-0.334	6e-06	NA	Hypomethylated in FP vs FN
cg17399143	0.557	0.823	-0.266	6e-06	NA	Hypomethylated in FP vs FN
cg19451167	0.139	0.575	-0.436	6e-06	NA	Hypomethylated in FP vs FN
cg23328050	0.107	0.493	-0.386	6e-06	PEX11A	Hypomethylated in FP vs FN
cg02788195	0.427	0.757	-0.331	6e-06	NA	Hypomethylated in FP vs FN
cg02268171	0.221	0.598	-0.378	6e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26852437	0.462	0.743	-0.281	6e-06	NA	Hypomethylated in FP vs FN
cg08269742	0.211	0.476	-0.266	6e-06	NA	Hypomethylated in FP vs FN
cg23627134	0.330	0.603	-0.273	6e-06	ARHGAP15	Hypomethylated in FP vs FN
cg02022526	0.358	0.622	-0.264	6e-06	NA	Hypomethylated in FP vs FN
cg16235371	0.255	0.558	-0.304	6e-06	PCDHB10	Hypomethylated in FP vs FN
cg14379108	0.521	0.801	-0.280	6e-06	NA	Hypomethylated in FP vs FN
cg08908131	0.418	0.726	-0.309	6e-06	NA	Hypomethylated in FP vs FN
cg11466094	0.229	0.535	-0.306	6e-06	NA	Hypomethylated in FP vs FN
cg04204002	0.419	0.750	-0.331	6e-06	TMPRSS3	Hypomethylated in FP vs FN
cg13698542	0.413	0.717	-0.304	6e-06	VEPH1	Hypomethylated in FP vs FN
cg17657618	0.464	0.766	-0.302	6e-06	NA	Hypomethylated in FP vs FN
cg19499085	0.300	0.633	-0.333	6e-06	NA	Hypomethylated in FP vs FN
cg26570683	0.430	0.693	-0.263	6e-06	ACP5	Hypomethylated in FP vs FN
cg05777919	0.516	0.808	-0.292	6e-06	NA	Hypomethylated in FP vs FN
cg18516150	0.432	0.732	-0.300	6e-06	NA	Hypomethylated in FP vs FN
cg00571483	0.199	0.453	-0.253	6e-06	NA	Hypomethylated in FP vs FN
cg07419795	0.235	0.514	-0.279	6e-06	NA	Hypomethylated in FP vs FN
cg02853012	0.137	0.497	-0.360	6e-06	TMEM26	Hypomethylated in FP vs FN
cg07941953	0.497	0.758	-0.261	6e-06	NA	Hypomethylated in FP vs FN
cg21609624	0.558	0.845	-0.287	6e-06	NA	Hypomethylated in FP vs FN
cg15724328	0.433	0.780	-0.347	6e-06	NA	Hypomethylated in FP vs FN
cg09311683	0.134	0.579	-0.446	6e-06	NA	Hypomethylated in FP vs FN
cg25503903	0.212	0.620	-0.408	6e-06	NA	Hypomethylated in FP vs FN
cg11419575	0.250	0.566	-0.316	6e-06	NA	Hypomethylated in FP vs FN
cg25840173	0.363	0.642	-0.279	6e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22065604	0.341	0.616	-0.275	6e-06	NA	Hypomethylated in FP vs FN
cg24156555	0.227	0.567	-0.340	6e-06	NA	Hypomethylated in FP vs FN
cg14289228	0.540	0.826	-0.286	6e-06	NA	Hypomethylated in FP vs FN
cg12726190	0.566	0.839	-0.273	6e-06	NA	Hypomethylated in FP vs FN
cg26896787	0.260	0.534	-0.273	6e-06	NA	Hypomethylated in FP vs FN
cg02772430	0.162	0.427	-0.265	6e-06	SLITRK1	Hypomethylated in FP vs FN
cg21518089	0.281	0.612	-0.331	6e-06	NA	Hypomethylated in FP vs FN
cg13160891	0.411	0.753	-0.342	6e-06	NA	Hypomethylated in FP vs FN
cg06046430	0.150	0.553	-0.403	6e-06	ANKRD56	Hypomethylated in FP vs FN
cg07369190	0.145	0.529	-0.384	6e-06	NA	Hypomethylated in FP vs FN
cg24073352	0.325	0.635	-0.310	6e-06	NA	Hypomethylated in FP vs FN
cg02772951	0.454	0.757	-0.302	6e-06	TMEM51	Hypomethylated in FP vs FN
cg16470716	0.287	0.672	-0.385	6e-06	NA	Hypomethylated in FP vs FN
cg15901963	0.329	0.626	-0.296	6e-06	NA	Hypomethylated in FP vs FN
cg09981198	0.528	0.803	-0.275	6e-06	NA	Hypomethylated in FP vs FN
cg10816489	0.133	0.404	-0.270	6e-06	CYP7B1	Hypomethylated in FP vs FN
cg17101165	0.100	0.450	-0.350	6e-06	NA	Hypomethylated in FP vs FN
cg18000764	0.365	0.675	-0.310	6e-06	NA	Hypomethylated in FP vs FN
cg16092786	0.157	0.590	-0.433	6e-06	NA	Hypomethylated in FP vs FN
cg14975547	0.509	0.782	-0.272	6e-06	NA	Hypomethylated in FP vs FN
cg27090216	0.165	0.486	-0.322	6e-06	TNFRSF10C	Hypomethylated in FP vs FN
cg09931793	0.443	0.775	-0.332	6e-06	OR2K2	Hypomethylated in FP vs FN
cg24280832	0.567	0.863	-0.297	6e-06	NA	Hypomethylated in FP vs FN
cg05189127	0.408	0.777	-0.369	6e-06	NA	Hypomethylated in FP vs FN
cg12342003	0.427	0.709	-0.282	6e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17161048	0.240	0.559	-0.319	6e-06	NA	Hypomethylated in FP vs FN
cg00938619	0.077	0.368	-0.291	6e-06	FLJ11235	Hypomethylated in FP vs FN
cg21649442	0.141	0.446	-0.305	6e-06	NA	Hypomethylated in FP vs FN
cg26413708	0.497	0.766	-0.269	6e-06	NA	Hypomethylated in FP vs FN
cg02286761	0.282	0.535	-0.253	6e-06	NA	Hypomethylated in FP vs FN
cg13844899	0.278	0.662	-0.384	6e-06	EFCAB10	Hypomethylated in FP vs FN
cg26359335	0.432	0.715	-0.284	6e-06	NA	Hypomethylated in FP vs FN
cg00605063	0.186	0.579	-0.393	6e-06	NA	Hypomethylated in FP vs FN
cg03397442	0.573	0.846	-0.273	6e-06	NA	Hypomethylated in FP vs FN
cg14579957	0.380	0.648	-0.268	6e-06	NA	Hypomethylated in FP vs FN
cg19358349	0.224	0.540	-0.316	6e-06	PTEN_KILLIN	Hypomethylated in FP vs FN
cg18953784	0.135	0.472	-0.336	6e-06	NA	Hypomethylated in FP vs FN
cg14128641	0.321	0.649	-0.329	6e-06	NA	Hypomethylated in FP vs FN
cg24848035	0.199	0.653	-0.454	6e-06	RGS22	Hypomethylated in FP vs FN
cg26195881	0.179	0.524	-0.345	7e-06	ISCA2	Hypomethylated in FP vs FN
cg06147379	0.132	0.578	-0.446	7e-06	RNF207	Hypomethylated in FP vs FN
cg02773086	0.375	0.728	-0.354	7e-06	HOXD3	Hypomethylated in FP vs FN
cg05237640	0.511	0.773	-0.262	7e-06	NA	Hypomethylated in FP vs FN
cg16348470	0.199	0.623	-0.423	7e-06	C1orf94	Hypomethylated in FP vs FN
cg26344619	0.393	0.680	-0.287	7e-06	NA	Hypomethylated in FP vs FN
cg08169311	0.212	0.532	-0.319	7e-06	NA	Hypomethylated in FP vs FN
cg03776662	0.229	0.491	-0.262	7e-06	NA	Hypomethylated in FP vs FN
cg00458211	0.505	0.780	-0.275	7e-06	NA	Hypomethylated in FP vs FN
cg02046475	0.548	0.837	-0.289	7e-06	NA	Hypomethylated in FP vs FN
cg17319795	0.348	0.653	-0.304	7e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25584474	0.554	0.818	-0.264	7e-06	NA	Hypomethylated in FP vs FN
cg09903183	0.387	0.700	-0.313	7e-06	NA	Hypomethylated in FP vs FN
cg11891395	0.250	0.588	-0.338	7e-06	NA	Hypomethylated in FP vs FN
cg18173058	0.354	0.718	-0.364	7e-06	NA	Hypomethylated in FP vs FN
cg15665376	0.549	0.804	-0.255	7e-06	DSCR10	Hypomethylated in FP vs FN
cg07083043	0.330	0.617	-0.286	7e-06	NA	Hypomethylated in FP vs FN
cg08956474	0.451	0.759	-0.308	7e-06	NA	Hypomethylated in FP vs FN
cg02612228	0.369	0.718	-0.349	7e-06	NA	Hypomethylated in FP vs FN
cg22651048	0.472	0.737	-0.264	7e-06	NA	Hypomethylated in FP vs FN
cg17321561	0.442	0.762	-0.320	7e-06	FAM107B	Hypomethylated in FP vs FN
cg08553524	0.322	0.717	-0.395	7e-06	NA	Hypomethylated in FP vs FN
cg02524099	0.259	0.597	-0.339	7e-06	NA	Hypomethylated in FP vs FN
cg18332838	0.425	0.790	-0.365	7e-06	NA	Hypomethylated in FP vs FN
cg09169779	0.490	0.805	-0.315	7e-06	NA	Hypomethylated in FP vs FN
cg15794873	0.425	0.752	-0.327	7e-06	NA	Hypomethylated in FP vs FN
cg26351416	0.340	0.680	-0.340	7e-06	NA	Hypomethylated in FP vs FN
cg24412662	0.396	0.768	-0.372	7e-06	NA	Hypomethylated in FP vs FN
cg02002207	0.464	0.746	-0.282	7e-06	NA	Hypomethylated in FP vs FN
cg24268161	0.454	0.714	-0.259	7e-06	NA	Hypomethylated in FP vs FN
cg26656202	0.456	0.728	-0.272	7e-06	NA	Hypomethylated in FP vs FN
cg01437439	0.466	0.779	-0.313	7e-06	NA	Hypomethylated in FP vs FN
cg27085741	0.081	0.524	-0.444	7e-06	NA	Hypomethylated in FP vs FN
cg01387102	0.336	0.662	-0.326	7e-06	MLPH	Hypomethylated in FP vs FN
cg09704116	0.334	0.663	-0.329	7e-06	LOC404266	Hypomethylated in FP vs FN
cg11207307	0.310	0.653	-0.343	7e-06	SLC2A14	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11764177	0.143	0.551	-0.408	7e-06	NA	Hypomethylated in FP vs FN
cg02155360	0.366	0.681	-0.315	7e-06	NA	Hypomethylated in FP vs FN
cg02232089	0.481	0.738	-0.257	7e-06	NA	Hypomethylated in FP vs FN
cg27168410	0.481	0.762	-0.281	7e-06	NA	Hypomethylated in FP vs FN
cg20971147	0.325	0.646	-0.320	7e-06	NA	Hypomethylated in FP vs FN
cg12980201	0.462	0.792	-0.330	7e-06	NA	Hypomethylated in FP vs FN
cg14053997	0.285	0.619	-0.334	7e-06	NA	Hypomethylated in FP vs FN
cg25799589	0.486	0.763	-0.277	7e-06	NA	Hypomethylated in FP vs FN
cg16210719	0.291	0.568	-0.277	7e-06	NA	Hypomethylated in FP vs FN
cg21781988	0.235	0.519	-0.283	7e-06	NA	Hypomethylated in FP vs FN
cg02858288	0.458	0.764	-0.306	7e-06	NA	Hypomethylated in FP vs FN
cg08658634	0.350	0.662	-0.312	7e-06	NA	Hypomethylated in FP vs FN
cg00954167	0.523	0.798	-0.275	7e-06	NA	Hypomethylated in FP vs FN
cg10031651	0.526	0.791	-0.264	7e-06	LRRC2	Hypomethylated in FP vs FN
cg03553278	0.220	0.504	-0.284	7e-06	NA	Hypomethylated in FP vs FN
cg25960038	0.432	0.746	-0.314	7e-06	LOC404266	Hypomethylated in FP vs FN
cg12685100	0.421	0.703	-0.282	7e-06	NA	Hypomethylated in FP vs FN
cg18302786	0.194	0.445	-0.251	7e-06	PLVAP	Hypomethylated in FP vs FN
cg21574244	0.387	0.675	-0.288	7e-06	NA	Hypomethylated in FP vs FN
cg07942687	0.351	0.681	-0.330	7e-06	NA	Hypomethylated in FP vs FN
cg25738116	0.515	0.771	-0.256	7e-06	PA2G4P4	Hypomethylated in FP vs FN
cg04583232	0.262	0.584	-0.322	7e-06	NA	Hypomethylated in FP vs FN
cg14563787	0.512	0.799	-0.286	7e-06	NA	Hypomethylated in FP vs FN
cg22193150	0.340	0.670	-0.329	7e-06	NA	Hypomethylated in FP vs FN
cg25497399	0.213	0.578	-0.365	7e-06	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

<b>Probe</b>	<b>FP.mean</b>	<b>FN.mean</b>	<b>Mean.diff</b>	<b>Adjusted.P.value</b>	<b>Promoter.related.gene</b>	<b>Category</b>
cg13922021	0.317	0.677	-0.360	7e-06	NA	Hypomethylated in FP vs FN
cg00870269	0.273	0.635	-0.362	7e-06	NA	Hypomethylated in FP vs FN
cg18877028	0.523	0.810	-0.287	7e-06	NA	Hypomethylated in FP vs FN
cg02251349	0.369	0.637	-0.269	7e-06	NA	Hypomethylated in FP vs FN
cg23004985	0.244	0.592	-0.348	7e-06	NA	Hypomethylated in FP vs FN
cg02824888	0.323	0.606	-0.283	7e-06	NA	Hypomethylated in FP vs FN
cg18114053	0.480	0.751	-0.271	7e-06	NA	Hypomethylated in FP vs FN
cg18515031	0.395	0.664	-0.270	7e-06	NA	Hypomethylated in FP vs FN
cg08370173	0.529	0.789	-0.260	7e-06	NA	Hypomethylated in FP vs FN
cg02104138	0.161	0.508	-0.347	7e-06	NA	Hypomethylated in FP vs FN
cg14428146	0.119	0.562	-0.443	7e-06	NKX2-6	Hypomethylated in FP vs FN
cg24490542	0.126	0.439	-0.313	7e-06	NA	Hypomethylated in FP vs FN
cg06514727	0.413	0.736	-0.324	7e-06	NA	Hypomethylated in FP vs FN
cg04629141	0.395	0.713	-0.317	7e-06	NA	Hypomethylated in FP vs FN
cg15713734	0.565	0.866	-0.301	7e-06	NA	Hypomethylated in FP vs FN
cg12630576	0.332	0.593	-0.261	7e-06	NA	Hypomethylated in FP vs FN
cg13338798	0.214	0.592	-0.379	7e-06	NA	Hypomethylated in FP vs FN
cg01335127	0.272	0.643	-0.371	7e-06	NA	Hypomethylated in FP vs FN
cg05136724	0.467	0.736	-0.268	7e-06	NA	Hypomethylated in FP vs FN
cg02048645	0.318	0.706	-0.389	7e-06	SPAG9	Hypomethylated in FP vs FN
cg08214060	0.508	0.804	-0.296	7e-06	NA	Hypomethylated in FP vs FN
cg14847917	0.361	0.658	-0.297	7e-06	NA	Hypomethylated in FP vs FN
cg21881364	0.442	0.778	-0.336	7e-06	NA	Hypomethylated in FP vs FN
cg03496533	0.267	0.532	-0.264	7e-06	PRR15L	Hypomethylated in FP vs FN
cg24315508	0.451	0.747	-0.296	7e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05053562	0.102	0.354	-0.252	7e-06	NOTO	Hypomethylated in FP vs FN
cg14867085	0.256	0.510	-0.254	7e-06	NA	Hypomethylated in FP vs FN
cg09892984	0.466	0.723	-0.257	7e-06	NA	Hypomethylated in FP vs FN
cg26124318	0.109	0.470	-0.361	7e-06	ADAM32	Hypomethylated in FP vs FN
cg01572434	0.295	0.631	-0.336	7e-06	NA	Hypomethylated in FP vs FN
cg01876514	0.459	0.760	-0.300	8e-06	NA	Hypomethylated in FP vs FN
cg26765743	0.536	0.829	-0.293	8e-06	NA	Hypomethylated in FP vs FN
cg05189570	0.462	0.746	-0.284	8e-06	BDNF	Hypomethylated in FP vs FN
cg04138103	0.400	0.742	-0.342	8e-06	NA	Hypomethylated in FP vs FN
cg19661030	0.359	0.754	-0.395	8e-06	NA	Hypomethylated in FP vs FN
cg15516835	0.483	0.742	-0.259	8e-06	NA	Hypomethylated in FP vs FN
cg08493762	0.349	0.702	-0.353	8e-06	NA	Hypomethylated in FP vs FN
cg24698655	0.281	0.623	-0.342	8e-06	NA	Hypomethylated in FP vs FN
cg20300541	0.387	0.699	-0.313	8e-06	NA	Hypomethylated in FP vs FN
cg26231267	0.170	0.444	-0.274	8e-06	NA	Hypomethylated in FP vs FN
cg00754253	0.570	0.831	-0.261	8e-06	HRASLS5	Hypomethylated in FP vs FN
cg14132167	0.446	0.741	-0.295	8e-06	NA	Hypomethylated in FP vs FN
cg17905462	0.368	0.723	-0.354	8e-06	NA	Hypomethylated in FP vs FN
cg02260363	0.321	0.625	-0.305	8e-06	CRABP1	Hypomethylated in FP vs FN
cg06793277	0.387	0.670	-0.282	8e-06	NA	Hypomethylated in FP vs FN
cg23786152	0.447	0.756	-0.309	8e-06	NA	Hypomethylated in FP vs FN
cg21697560	0.557	0.814	-0.257	8e-06	NA	Hypomethylated in FP vs FN
cg16929496	0.381	0.684	-0.303	8e-06	ZNF132	Hypomethylated in FP vs FN
cg07754940	0.229	0.535	-0.306	8e-06	NA	Hypomethylated in FP vs FN
cg12277653	0.609	0.872	-0.264	8e-06	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12524061	0.425	0.722	-0.297	8e-06	SDR9C7	Hypomethylated in FP vs FN
cg18114129	0.529	0.822	-0.292	8e-06	NA	Hypomethylated in FP vs FN
cg26157270	0.447	0.740	-0.293	8e-06	LRRTM1	Hypomethylated in FP vs FN
cg08039952	0.298	0.577	-0.279	8e-06	LOC146336	Hypomethylated in FP vs FN
cg01958906	0.533	0.833	-0.300	8e-06	NA	Hypomethylated in FP vs FN
cg06740442	0.323	0.701	-0.378	8e-06	NA	Hypomethylated in FP vs FN
cg26326560	0.511	0.769	-0.258	8e-06	NA	Hypomethylated in FP vs FN
cg07513789	0.403	0.699	-0.296	8e-06	NA	Hypomethylated in FP vs FN
cg19391384	0.566	0.828	-0.262	8e-06	NA	Hypomethylated in FP vs FN
cg00902147	0.513	0.877	-0.363	8e-06	NA	Hypomethylated in FP vs FN
cg18347602	0.265	0.560	-0.295	8e-06	NA	Hypomethylated in FP vs FN
cg22528270	0.204	0.593	-0.389	8e-06	NA	Hypomethylated in FP vs FN
cg06708731	0.442	0.695	-0.253	8e-06	DBH	Hypomethylated in FP vs FN
cg10980293	0.385	0.688	-0.303	8e-06	ASB10	Hypomethylated in FP vs FN
cg09212118	0.323	0.620	-0.297	8e-06	GUCA2A	Hypomethylated in FP vs FN
cg02585598	0.152	0.531	-0.378	8e-06	NA	Hypomethylated in FP vs FN
cg23691781	0.298	0.565	-0.267	8e-06	NA	Hypomethylated in FP vs FN
cg14000361	0.109	0.480	-0.371	8e-06	GCM2	Hypomethylated in FP vs FN
cg11880367	0.353	0.724	-0.371	8e-06	NA	Hypomethylated in FP vs FN
cg15799267	0.356	0.686	-0.330	8e-06	ALOX15B	Hypomethylated in FP vs FN
cg10810657	0.541	0.816	-0.274	8e-06	NA	Hypomethylated in FP vs FN
cg01930676	0.398	0.655	-0.256	8e-06	MRPL1	Hypomethylated in FP vs FN
cg26266934	0.576	0.834	-0.259	8e-06	FAM174B	Hypomethylated in FP vs FN
cg16692227	0.360	0.691	-0.330	8e-06	NA	Hypomethylated in FP vs FN
cg11012965	0.282	0.587	-0.305	8e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09519060	0.544	0.836	-0.292	8e-06	NA	Hypomethylated in FP vs FN
cg05272888	0.467	0.779	-0.312	8e-06	ANUBL1	Hypomethylated in FP vs FN
cg13470069	0.226	0.637	-0.412	8e-06	RAB5C	Hypomethylated in FP vs FN
cg13778519	0.479	0.768	-0.289	8e-06	NA	Hypomethylated in FP vs FN
cg19719207	0.487	0.741	-0.254	8e-06	NA	Hypomethylated in FP vs FN
cg22954810	0.521	0.781	-0.260	8e-06	NA	Hypomethylated in FP vs FN
cg23831143	0.112	0.471	-0.359	8e-06	TNFRSF10C	Hypomethylated in FP vs FN
cg27558312	0.377	0.652	-0.274	8e-06	LOC285033	Hypomethylated in FP vs FN
cg25773223	0.499	0.777	-0.278	8e-06	NA	Hypomethylated in FP vs FN
cg19139618	0.329	0.678	-0.350	8e-06	NA	Hypomethylated in FP vs FN
cg00946979	0.574	0.857	-0.284	8e-06	NA	Hypomethylated in FP vs FN
cg07788537	0.463	0.803	-0.340	8e-06	NA	Hypomethylated in FP vs FN
cg15346493	0.512	0.810	-0.298	8e-06	NA	Hypomethylated in FP vs FN
cg03724279	0.520	0.793	-0.273	8e-06	NA	Hypomethylated in FP vs FN
cg00698169	0.358	0.700	-0.342	8e-06	NA	Hypomethylated in FP vs FN
cg22720481	0.510	0.779	-0.268	8e-06	NA	Hypomethylated in FP vs FN
cg10945385	0.392	0.732	-0.341	8e-06	NA	Hypomethylated in FP vs FN
cg01567509	0.502	0.792	-0.290	8e-06	NA	Hypomethylated in FP vs FN
cg00628788	0.348	0.695	-0.347	8e-06	NA	Hypomethylated in FP vs FN
cg17794905	0.472	0.727	-0.255	8e-06	NA	Hypomethylated in FP vs FN
cg00682096	0.453	0.771	-0.318	8e-06	LOC404266	Hypomethylated in FP vs FN
cg18355562	0.435	0.724	-0.289	8e-06	NA	Hypomethylated in FP vs FN
cg26335577	0.528	0.795	-0.267	8e-06	NA	Hypomethylated in FP vs FN
cg07451886	0.263	0.575	-0.312	9e-06	NA	Hypomethylated in FP vs FN
cg25332265	0.336	0.619	-0.282	9e-06	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12385599	0.293	0.657	-0.365	9e-06	LOC389493	Hypomethylated in FP vs FN
cg24780007	0.509	0.799	-0.290	9e-06	NA	Hypomethylated in FP vs FN
cg18088442	0.140	0.520	-0.380	9e-06	NA	Hypomethylated in FP vs FN
cg03176810	0.393	0.667	-0.274	9e-06	NA	Hypomethylated in FP vs FN
cg22616126	0.430	0.747	-0.317	9e-06	NA	Hypomethylated in FP vs FN
cg01789926	0.337	0.688	-0.350	9e-06	NA	Hypomethylated in FP vs FN
cg22232978	0.415	0.721	-0.306	9e-06	NA	Hypomethylated in FP vs FN
cg04687310	0.326	0.658	-0.332	9e-06	NA	Hypomethylated in FP vs FN
cg10656871	0.497	0.782	-0.285	9e-06	NA	Hypomethylated in FP vs FN
cg25695610	0.446	0.786	-0.340	9e-06	NA	Hypomethylated in FP vs FN
cg24583624	0.275	0.646	-0.371	9e-06	PCDHB5	Hypomethylated in FP vs FN
cg13422676	0.440	0.776	-0.336	9e-06	NA	Hypomethylated in FP vs FN
cg24753988	0.410	0.678	-0.269	9e-06	NA	Hypomethylated in FP vs FN
cg01712671	0.338	0.670	-0.332	9e-06	NA	Hypomethylated in FP vs FN
cg19689211	0.475	0.764	-0.289	9e-06	NA	Hypomethylated in FP vs FN
cg20120512	0.313	0.601	-0.289	9e-06	NA	Hypomethylated in FP vs FN
cg23357150	0.403	0.655	-0.252	9e-06	NA	Hypomethylated in FP vs FN
cg16616765	0.301	0.649	-0.347	9e-06	NA	Hypomethylated in FP vs FN
cg27307298	0.342	0.730	-0.388	9e-06	NA	Hypomethylated in FP vs FN
cg09579310	0.178	0.483	-0.305	9e-06	NA	Hypomethylated in FP vs FN
cg19417526	0.435	0.767	-0.332	9e-06	NA	Hypomethylated in FP vs FN
cg09216650	0.461	0.758	-0.297	9e-06	NA	Hypomethylated in FP vs FN
cg23415916	0.317	0.605	-0.288	9e-06	NA	Hypomethylated in FP vs FN
cg24678095	0.088	0.476	-0.388	9e-06	GALNT3	Hypomethylated in FP vs FN
cg17198762	0.191	0.504	-0.313	9e-06	LOC390594	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08342966	0.330	0.648	-0.318	9e-06	NA	Hypomethylated in FP vs FN
cg14111974	0.491	0.786	-0.295	9e-06	NA	Hypomethylated in FP vs FN
cg19682786	0.371	0.717	-0.346	9e-06	MGC26647	Hypomethylated in FP vs FN
cg14192299	0.578	0.829	-0.252	9e-06	NANOS2	Hypomethylated in FP vs FN
cg27579359	0.563	0.823	-0.260	9e-06	NA	Hypomethylated in FP vs FN
cg04401603	0.617	0.875	-0.258	9e-06	NA	Hypomethylated in FP vs FN
cg16097205	0.327	0.596	-0.269	9e-06	NA	Hypomethylated in FP vs FN
cg04850999	0.495	0.780	-0.285	9e-06	NA	Hypomethylated in FP vs FN
cg16833444	0.371	0.687	-0.316	9e-06	NA	Hypomethylated in FP vs FN
cg02825412	0.264	0.537	-0.273	9e-06	NA	Hypomethylated in FP vs FN
cg15104126	0.510	0.773	-0.263	9e-06	NA	Hypomethylated in FP vs FN
cg23715045	0.394	0.734	-0.340	9e-06	NA	Hypomethylated in FP vs FN
cg22718140	0.411	0.784	-0.373	9e-06	NA	Hypomethylated in FP vs FN
cg18678645	0.500	0.792	-0.292	9e-06	MIR886	Hypomethylated in FP vs FN
cg16509072	0.286	0.610	-0.324	9e-06	NA	Hypomethylated in FP vs FN
cg06206831	0.570	0.820	-0.251	9e-06	NA	Hypomethylated in FP vs FN
cg06650246	0.395	0.699	-0.304	9e-06	NA	Hypomethylated in FP vs FN
cg14539062	0.396	0.741	-0.345	9e-06	NA	Hypomethylated in FP vs FN
cg02340541	0.266	0.622	-0.355	9e-06	GAL	Hypomethylated in FP vs FN
cg04278371	0.425	0.685	-0.260	9e-06	NCRNA00175	Hypomethylated in FP vs FN
cg10475928	0.489	0.798	-0.309	9e-06	NA	Hypomethylated in FP vs FN
cg07503059	0.161	0.521	-0.360	9e-06	FLJ11235	Hypomethylated in FP vs FN
cg19525780	0.571	0.842	-0.271	9e-06	NA	Hypomethylated in FP vs FN
cg06788355	0.380	0.660	-0.280	9e-06	NA	Hypomethylated in FP vs FN
cg00320216	0.583	0.858	-0.275	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22891707	0.315	0.587	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg05872236	0.261	0.581	-0.320	1e-05	NA	Hypomethylated in FP vs FN
cg21361134	0.433	0.732	-0.299	1e-05	CLRN1_CLRN1OS	Hypomethylated in FP vs FN
cg16272420	0.461	0.733	-0.271	1e-05	NA	Hypomethylated in FP vs FN
cg24900927	0.437	0.728	-0.291	1e-05	NA	Hypomethylated in FP vs FN
cg12117396	0.438	0.722	-0.284	1e-05	NA	Hypomethylated in FP vs FN
cg02933354	0.468	0.756	-0.287	1e-05	VEPH1	Hypomethylated in FP vs FN
cg05781609	0.385	0.697	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg00195749	0.332	0.646	-0.314	1e-05	NA	Hypomethylated in FP vs FN
cg10709246	0.304	0.615	-0.310	1e-05	PLVAP	Hypomethylated in FP vs FN
cg17658002	0.452	0.768	-0.316	1e-05	ACP5	Hypomethylated in FP vs FN
cg03420144	0.383	0.639	-0.256	1e-05	NA	Hypomethylated in FP vs FN
cg04259907	0.334	0.672	-0.338	1e-05	LYPD3	Hypomethylated in FP vs FN
cg07365127	0.168	0.594	-0.426	1e-05	NA	Hypomethylated in FP vs FN
cg10232265	0.328	0.640	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg25322847	0.436	0.765	-0.329	1e-05	NA	Hypomethylated in FP vs FN
cg23493497	0.452	0.718	-0.266	1e-05	NA	Hypomethylated in FP vs FN
cg10887937	0.432	0.723	-0.291	1e-05	ALDH2	Hypomethylated in FP vs FN
cg05640754	0.611	0.865	-0.254	1e-05	NA	Hypomethylated in FP vs FN
cg05267394	0.194	0.646	-0.452	1e-05	NA	Hypomethylated in FP vs FN
cg14897263	0.276	0.548	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg14514032	0.070	0.401	-0.331	1e-05	NA	Hypomethylated in FP vs FN
cg05141988	0.496	0.756	-0.260	1e-05	NA	Hypomethylated in FP vs FN
cg09340205	0.470	0.775	-0.305	1e-05	NA	Hypomethylated in FP vs FN
cg16852685	0.186	0.528	-0.342	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14110548	0.316	0.627	-0.311	1e-05	NA	Hypomethylated in FP vs FN
cg09420319	0.325	0.698	-0.373	1e-05	NA	Hypomethylated in FP vs FN
cg16642284	0.175	0.673	-0.498	1e-05	FOXI2	Hypomethylated in FP vs FN
cg25400358	0.337	0.602	-0.264	1e-05	GPR137	Hypomethylated in FP vs FN
cg07211140	0.155	0.589	-0.434	1e-05	NA	Hypomethylated in FP vs FN
cg13066658	0.155	0.536	-0.381	1e-05	NA	Hypomethylated in FP vs FN
cg03573945	0.200	0.527	-0.327	1e-05	NA	Hypomethylated in FP vs FN
cg24565742	0.360	0.663	-0.303	1e-05	NA	Hypomethylated in FP vs FN
cg02189843	0.345	0.640	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg19822110	0.320	0.683	-0.363	1e-05	NA	Hypomethylated in FP vs FN
cg10117369	0.269	0.539	-0.270	1e-05	LAX1	Hypomethylated in FP vs FN
cg02375065	0.494	0.760	-0.267	1e-05	NA	Hypomethylated in FP vs FN
cg25586361	0.344	0.639	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg11207515	0.177	0.430	-0.253	1e-05	NA	Hypomethylated in FP vs FN
cg20899151	0.371	0.697	-0.326	1e-05	NA	Hypomethylated in FP vs FN
cg14421582	0.490	0.744	-0.254	1e-05	NA	Hypomethylated in FP vs FN
cg07336872	0.280	0.594	-0.314	1e-05	NA	Hypomethylated in FP vs FN
cg12698813	0.143	0.492	-0.349	1e-05	NA	Hypomethylated in FP vs FN
cg00234370	0.307	0.634	-0.327	1e-05	NA	Hypomethylated in FP vs FN
cg24311236	0.431	0.736	-0.306	1e-05	NA	Hypomethylated in FP vs FN
cg11832309	0.335	0.654	-0.320	1e-05	NA	Hypomethylated in FP vs FN
cg06648812	0.311	0.574	-0.263	1e-05	PDE6B	Hypomethylated in FP vs FN
cg00660106	0.417	0.712	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg27365426	0.351	0.608	-0.257	1e-05	ARHGAP15	Hypomethylated in FP vs FN
cg21221690	0.360	0.661	-0.301	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11712506	0.142	0.477	-0.335	1e-05	NA	Hypomethylated in FP vs FN
cg12675848	0.168	0.551	-0.383	1e-05	NA	Hypomethylated in FP vs FN
cg18383538	0.226	0.611	-0.386	1e-05	NA	Hypomethylated in FP vs FN
cg17935536	0.225	0.499	-0.274	1e-05	NA	Hypomethylated in FP vs FN
cg10409230	0.459	0.779	-0.320	1e-05	NA	Hypomethylated in FP vs FN
cg12275060	0.314	0.616	-0.302	1e-05	NA	Hypomethylated in FP vs FN
cg03001143	0.487	0.756	-0.269	1e-05	METTL11B	Hypomethylated in FP vs FN
cg16409795	0.335	0.607	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg10484693	0.344	0.666	-0.321	1e-05	NA	Hypomethylated in FP vs FN
cg04552480	0.319	0.583	-0.264	1e-05	NA	Hypomethylated in FP vs FN
cg03047070	0.393	0.644	-0.251	1e-05	NA	Hypomethylated in FP vs FN
cg06113801	0.278	0.581	-0.303	1e-05	NA	Hypomethylated in FP vs FN
cg16986315	0.585	0.838	-0.252	1e-05	NA	Hypomethylated in FP vs FN
cg22164009	0.441	0.703	-0.261	1e-05	NA	Hypomethylated in FP vs FN
cg23860266	0.553	0.835	-0.283	1e-05	NA	Hypomethylated in FP vs FN
cg01425967	0.217	0.512	-0.295	1e-05	PCP4L1	Hypomethylated in FP vs FN
cg12366685	0.318	0.596	-0.278	1e-05	NA	Hypomethylated in FP vs FN
cg02595832	0.101	0.559	-0.458	1e-05	FOXI2	Hypomethylated in FP vs FN
cg14043803	0.405	0.673	-0.269	1e-05	NA	Hypomethylated in FP vs FN
cg19556343	0.284	0.673	-0.389	1e-05	NCAM2	Hypomethylated in FP vs FN
cg24951286	0.374	0.690	-0.316	1e-05	PCDHB15	Hypomethylated in FP vs FN
cg20599066	0.263	0.669	-0.406	1e-05	NA	Hypomethylated in FP vs FN
cg10553596	0.328	0.586	-0.258	1e-05	NEU4	Hypomethylated in FP vs FN
cg00833639	0.496	0.791	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg24009074	0.531	0.785	-0.254	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13135031	0.112	0.401	-0.289	1e-05	ZSWIM2	Hypomethylated in FP vs FN
cg16711556	0.346	0.667	-0.322	1e-05	NA	Hypomethylated in FP vs FN
cg21884122	0.467	0.734	-0.267	1e-05	NA	Hypomethylated in FP vs FN
cg01029685	0.268	0.580	-0.312	1e-05	PCDHA9	Hypomethylated in FP vs FN
cg18836618	0.508	0.765	-0.257	1e-05	NA	Hypomethylated in FP vs FN
cg19103219	0.452	0.775	-0.322	1e-05	NA	Hypomethylated in FP vs FN
cg26820168	0.296	0.607	-0.310	1e-05	NA	Hypomethylated in FP vs FN
cg22949562	0.362	0.669	-0.307	1e-05	NA	Hypomethylated in FP vs FN
cg14023309	0.490	0.771	-0.282	1e-05	NA	Hypomethylated in FP vs FN
cg18997129	0.517	0.783	-0.266	1e-05	EPHA1	Hypomethylated in FP vs FN
cg26966434	0.402	0.744	-0.343	1e-05	NA	Hypomethylated in FP vs FN
cg26100986	0.162	0.450	-0.287	1e-05	NA	Hypomethylated in FP vs FN
cg24095850	0.297	0.669	-0.372	1e-05	NA	Hypomethylated in FP vs FN
cg02577387	0.363	0.672	-0.309	1e-05	NA	Hypomethylated in FP vs FN
cg01986263	0.246	0.499	-0.253	1e-05	NA	Hypomethylated in FP vs FN
cg06833778	0.335	0.648	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg07027613	0.285	0.559	-0.274	1e-05	LOC283314	Hypomethylated in FP vs FN
cg16876236	0.433	0.736	-0.303	1e-05	BANF2	Hypomethylated in FP vs FN
cg18391058	0.609	0.865	-0.256	1e-05	NA	Hypomethylated in FP vs FN
cg26378982	0.513	0.845	-0.332	1e-05	KCNF1	Hypomethylated in FP vs FN
cg05198244	0.270	0.634	-0.364	1e-05	NA	Hypomethylated in FP vs FN
cg03246694	0.201	0.605	-0.404	1e-05	NA	Hypomethylated in FP vs FN
cg26026615	0.353	0.698	-0.345	1e-05	NA	Hypomethylated in FP vs FN
cg14154973	0.131	0.487	-0.356	1e-05	PEX11A	Hypomethylated in FP vs FN
cg02072366	0.123	0.375	-0.253	1e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20191453	0.397	0.685	-0.288	1e-05	AMT	Hypomethylated in FP vs FN
cg22367264	0.522	0.817	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg04221683	0.475	0.737	-0.261	1e-05	NA	Hypomethylated in FP vs FN
cg05890855	0.226	0.499	-0.273	1e-05	NA	Hypomethylated in FP vs FN
cg16518167	0.459	0.721	-0.262	1e-05	NA	Hypomethylated in FP vs FN
cg14306161	0.310	0.570	-0.260	1e-05	NA	Hypomethylated in FP vs FN
cg01511232	0.347	0.691	-0.344	1e-05	NA	Hypomethylated in FP vs FN
cg12633410	0.556	0.811	-0.255	1e-05	NA	Hypomethylated in FP vs FN
cg11500797	0.233	0.587	-0.354	1e-05	NA	Hypomethylated in FP vs FN
cg27130630	0.262	0.577	-0.315	1e-05	LOC283314	Hypomethylated in FP vs FN
cg00145915	0.500	0.793	-0.292	1e-05	NA	Hypomethylated in FP vs FN
cg10779492	0.336	0.672	-0.336	1e-05	NA	Hypomethylated in FP vs FN
cg14564965	0.397	0.667	-0.270	1e-05	NA	Hypomethylated in FP vs FN
cg12905673	0.398	0.739	-0.341	1e-05	NA	Hypomethylated in FP vs FN
cg22399133	0.163	0.604	-0.441	1e-05	CRYGD	Hypomethylated in FP vs FN
cg23906872	0.404	0.663	-0.259	1e-05	KCNQ1OT1	Hypomethylated in FP vs FN
cg22998959	0.332	0.638	-0.306	1e-05	NA	Hypomethylated in FP vs FN
cg17258460	0.569	0.823	-0.254	1e-05	NA	Hypomethylated in FP vs FN
cg25226247	0.393	0.709	-0.316	1e-05	TFAP2B	Hypomethylated in FP vs FN
cg17590234	0.329	0.600	-0.271	1e-05	PDE4B	Hypomethylated in FP vs FN
cg22721851	0.491	0.748	-0.257	1e-05	NA	Hypomethylated in FP vs FN
cg13206191	0.484	0.808	-0.323	1e-05	NA	Hypomethylated in FP vs FN
cg13173286	0.565	0.850	-0.285	1e-05	NA	Hypomethylated in FP vs FN
cg18249580	0.299	0.726	-0.428	1e-05	NA	Hypomethylated in FP vs FN
cg14335159	0.384	0.734	-0.350	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04030615	0.074	0.419	-0.345	1e-05	ACTA1	Hypomethylated in FP vs FN
cg06350882	0.521	0.803	-0.282	1e-05	NA	Hypomethylated in FP vs FN
cg10683775	0.461	0.747	-0.286	1e-05	NA	Hypomethylated in FP vs FN
cg12575771	0.309	0.572	-0.263	1e-05	IL9	Hypomethylated in FP vs FN
cg03401213	0.456	0.724	-0.268	1e-05	NME2	Hypomethylated in FP vs FN
cg00757262	0.437	0.696	-0.259	1e-05	NA	Hypomethylated in FP vs FN
cg21307628	0.500	0.772	-0.271	1e-05	CCDC80	Hypomethylated in FP vs FN
cg06252645	0.435	0.696	-0.260	1e-05	NA	Hypomethylated in FP vs FN
cg24606594	0.336	0.696	-0.360	1e-05	NA	Hypomethylated in FP vs FN
cg17067226	0.314	0.670	-0.356	1e-05	NA	Hypomethylated in FP vs FN
cg16929393	0.398	0.704	-0.306	1e-05	NA	Hypomethylated in FP vs FN
cg26147269	0.485	0.737	-0.252	1e-05	HDAC11	Hypomethylated in FP vs FN
cg14822719	0.272	0.606	-0.333	1e-05	NA	Hypomethylated in FP vs FN
cg25846784	0.127	0.544	-0.417	1e-05	NA	Hypomethylated in FP vs FN
cg23049758	0.316	0.597	-0.281	1e-05	NA	Hypomethylated in FP vs FN
cg01840128	0.507	0.781	-0.273	1e-05	NA	Hypomethylated in FP vs FN
cg03912703	0.264	0.595	-0.331	1e-05	NA	Hypomethylated in FP vs FN
cg13429423	0.289	0.581	-0.292	1e-05	PARVG	Hypomethylated in FP vs FN
cg27440150	0.327	0.624	-0.297	1e-05	NA	Hypomethylated in FP vs FN
cg00596763	0.518	0.797	-0.279	1e-05	LOC389332	Hypomethylated in FP vs FN
cg18477666	0.398	0.699	-0.301	1e-05	NA	Hypomethylated in FP vs FN
cg12487655	0.374	0.671	-0.297	1e-05	NA	Hypomethylated in FP vs FN
cg24439401	0.406	0.666	-0.261	1e-05	NA	Hypomethylated in FP vs FN
cg00226923	0.339	0.604	-0.264	1e-05	FGD2	Hypomethylated in FP vs FN
cg12143789	0.150	0.587	-0.437	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18860310	0.245	0.520	-0.274	1e-05	NA	Hypomethylated in FP vs FN
cg12718528	0.417	0.676	-0.259	1e-05	NA	Hypomethylated in FP vs FN
cg23933503	0.540	0.804	-0.265	1e-05	NA	Hypomethylated in FP vs FN
cg18670236	0.288	0.637	-0.349	1e-05	NA	Hypomethylated in FP vs FN
cg05646686	0.255	0.639	-0.384	1e-05	NA	Hypomethylated in FP vs FN
cg14517743	0.221	0.633	-0.412	1e-05	NA	Hypomethylated in FP vs FN
cg12887033	0.313	0.611	-0.298	1e-05	NA	Hypomethylated in FP vs FN
cg15537254	0.200	0.480	-0.280	1e-05	NCRNA00028	Hypomethylated in FP vs FN
cg23763427	0.404	0.746	-0.342	1e-05	NA	Hypomethylated in FP vs FN
cg27442349	0.497	0.755	-0.257	1e-05	NFKBIB	Hypomethylated in FP vs FN
cg05671386	0.312	0.653	-0.341	1e-05	CLUAP1	Hypomethylated in FP vs FN
cg21081729	0.386	0.681	-0.295	1e-05	NA	Hypomethylated in FP vs FN
cg19725098	0.506	0.777	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg04330449	0.120	0.461	-0.340	1e-05	NEUROG1	Hypomethylated in FP vs FN
cg05050072	0.378	0.761	-0.383	1e-05	NA	Hypomethylated in FP vs FN
cg05785989	0.465	0.739	-0.274	1e-05	NA	Hypomethylated in FP vs FN
cg18917643	0.483	0.740	-0.257	1e-05	NA	Hypomethylated in FP vs FN
cg06324037	0.479	0.746	-0.268	1e-05	NA	Hypomethylated in FP vs FN
cg16622517	0.316	0.589	-0.273	1e-05	NA	Hypomethylated in FP vs FN
cg00955867	0.319	0.687	-0.367	1e-05	NHLH1	Hypomethylated in FP vs FN
cg03509193	0.457	0.749	-0.291	1e-05	NA	Hypomethylated in FP vs FN
cg20882260	0.389	0.678	-0.289	1e-05	NA	Hypomethylated in FP vs FN
cg02329038	0.289	0.623	-0.335	1e-05	MIR196A1	Hypomethylated in FP vs FN
cg16510440	0.292	0.559	-0.268	1e-05	NA	Hypomethylated in FP vs FN
cg27597473	0.424	0.702	-0.278	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12771187	0.585	0.843	-0.259	1e-05	NA	Hypomethylated in FP vs FN
cg01076708	0.449	0.712	-0.263	1e-05	NA	Hypomethylated in FP vs FN
cg06569117	0.272	0.579	-0.307	1e-05	NA	Hypomethylated in FP vs FN
cg10220117	0.336	0.627	-0.290	1e-05	NA	Hypomethylated in FP vs FN
cg18841796	0.350	0.608	-0.258	1e-05	NA	Hypomethylated in FP vs FN
cg14239346	0.077	0.450	-0.373	1e-05	WDR93_PEX11A	Hypomethylated in FP vs FN
cg19820919	0.315	0.585	-0.270	1e-05	NA	Hypomethylated in FP vs FN
cg01851970	0.532	0.820	-0.288	1e-05	NA	Hypomethylated in FP vs FN
cg08156074	0.537	0.813	-0.275	1e-05	NA	Hypomethylated in FP vs FN
cg05471881	0.256	0.530	-0.274	1e-05	NA	Hypomethylated in FP vs FN
cg14099812	0.512	0.819	-0.307	1e-05	NA	Hypomethylated in FP vs FN
cg14494313	0.587	0.838	-0.251	1e-05	NAT2	Hypomethylated in FP vs FN
cg11789885	0.478	0.746	-0.269	1e-05	NA	Hypomethylated in FP vs FN
cg19906545	0.474	0.730	-0.256	1e-05	NA	Hypomethylated in FP vs FN
cg15317068	0.153	0.419	-0.265	1e-05	NA	Hypomethylated in FP vs FN
cg13786801	0.118	0.503	-0.385	1e-05	TACSTD2	Hypomethylated in FP vs FN
cg20967441	0.510	0.765	-0.255	1e-05	NA	Hypomethylated in FP vs FN
cg17104596	0.461	0.765	-0.304	1e-05	NA	Hypomethylated in FP vs FN
cg12417871	0.412	0.715	-0.303	1e-05	NA	Hypomethylated in FP vs FN
cg01751134	0.054	0.441	-0.387	1e-05	LPCAT2	Hypomethylated in FP vs FN
cg01528349	0.497	0.768	-0.271	1e-05	NA	Hypomethylated in FP vs FN
cg08466256	0.402	0.674	-0.273	1e-05	NA	Hypomethylated in FP vs FN
cg10062193	0.450	0.712	-0.262	1e-05	NA	Hypomethylated in FP vs FN
cg05873146	0.173	0.602	-0.430	1e-05	NA	Hypomethylated in FP vs FN
cg12159995	0.305	0.606	-0.301	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03718773	0.222	0.481	-0.258	1e-05	NA	Hypomethylated in FP vs FN
cg10399929	0.448	0.738	-0.291	1e-05	FAT4	Hypomethylated in FP vs FN
cg20514520	0.474	0.767	-0.293	1e-05	NA	Hypomethylated in FP vs FN
cg16245698	0.435	0.719	-0.284	1e-05	NA	Hypomethylated in FP vs FN
cg01502428	0.473	0.732	-0.259	1e-05	NA	Hypomethylated in FP vs FN
cg13943217	0.096	0.515	-0.419	1e-05	NA	Hypomethylated in FP vs FN
cg24129382	0.107	0.468	-0.360	1e-05	NA	Hypomethylated in FP vs FN
cg08504812	0.305	0.706	-0.401	1e-05	C3orf55	Hypomethylated in FP vs FN
cg17092956	0.312	0.646	-0.334	1e-05	NA	Hypomethylated in FP vs FN
cg02464901	0.390	0.731	-0.341	1e-05	NA	Hypomethylated in FP vs FN
cg14714614	0.324	0.587	-0.264	1e-05	NA	Hypomethylated in FP vs FN
cg26453169	0.258	0.531	-0.273	1e-05	GAPT	Hypomethylated in FP vs FN
cg18535456	0.315	0.655	-0.340	1e-05	ALDH2	Hypomethylated in FP vs FN
cg21437481	0.205	0.582	-0.377	1e-05	KLHDC9	Hypomethylated in FP vs FN
cg13568950	0.095	0.407	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg26314750	0.405	0.696	-0.291	1e-05	C15orf56	Hypomethylated in FP vs FN
cg20738406	0.065	0.418	-0.353	1e-05	WDR93_PEX11A	Hypomethylated in FP vs FN
cg09486642	0.348	0.642	-0.294	1e-05	TRPV6	Hypomethylated in FP vs FN
cg07208057	0.375	0.687	-0.312	1e-05	LOC388965	Hypomethylated in FP vs FN
cg03934392	0.347	0.705	-0.358	1e-05	LOC402778	Hypomethylated in FP vs FN
cg12835599	0.346	0.670	-0.325	1e-05	NA	Hypomethylated in FP vs FN
cg14207728	0.224	0.575	-0.350	1e-05	TCTEX1D1	Hypomethylated in FP vs FN
cg11213690	0.218	0.567	-0.349	1e-05	NA	Hypomethylated in FP vs FN
cg14088142	0.155	0.426	-0.271	1e-05	NA	Hypomethylated in FP vs FN
cg04233521	0.335	0.586	-0.251	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26253500	0.458	0.756	-0.298	1e-05	NA	Hypomethylated in FP vs FN
cg07529658	0.349	0.718	-0.370	1e-05	NCRNA00175	Hypomethylated in FP vs FN
cg19317211	0.082	0.483	-0.401	1e-05	NA	Hypomethylated in FP vs FN
cg05940984	0.092	0.502	-0.411	1e-05	NA	Hypomethylated in FP vs FN
cg02704158	0.292	0.671	-0.379	1e-05	NA	Hypomethylated in FP vs FN
cg16890796	0.261	0.579	-0.318	1e-05	NA	Hypomethylated in FP vs FN
cg05471169	0.139	0.497	-0.358	1e-05	NA	Hypomethylated in FP vs FN
cg26548251	0.286	0.545	-0.259	1e-05	MIR548F3	Hypomethylated in FP vs FN
cg01492523	0.469	0.757	-0.288	1e-05	DCHS2	Hypomethylated in FP vs FN
cg22701056	0.410	0.711	-0.301	1e-05	NA	Hypomethylated in FP vs FN
cg15001714	0.508	0.785	-0.277	1e-05	NA	Hypomethylated in FP vs FN
cg23840044	0.514	0.778	-0.263	1e-05	GAS2	Hypomethylated in FP vs FN
cg05636175	0.181	0.530	-0.348	1e-05	TNFRSF10C	Hypomethylated in FP vs FN
cg04418492	0.094	0.421	-0.328	1e-05	CYP7B1	Hypomethylated in FP vs FN
cg21399492	0.527	0.786	-0.259	1e-05	NA	Hypomethylated in FP vs FN
cg25094569	0.152	0.558	-0.407	1e-05	NA	Hypomethylated in FP vs FN
cg17820365	0.196	0.617	-0.421	1e-05	NA	Hypomethylated in FP vs FN
cg03238216	0.413	0.741	-0.328	1e-05	NA	Hypomethylated in FP vs FN
cg02222324	0.312	0.707	-0.395	1e-05	NA	Hypomethylated in FP vs FN
cg23118086	0.167	0.578	-0.411	1e-05	NA	Hypomethylated in FP vs FN
cg26479630	0.143	0.409	-0.266	1e-05	NA	Hypomethylated in FP vs FN
cg19905757	0.279	0.538	-0.260	1e-05	NA	Hypomethylated in FP vs FN
cg17850498	0.443	0.709	-0.266	1e-05	NA	Hypomethylated in FP vs FN
cg02543268	0.279	0.620	-0.340	1e-05	NA	Hypomethylated in FP vs FN
cg03876766	0.255	0.515	-0.260	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07901253	0.295	0.555	-0.260	1e-05	NA	Hypomethylated in FP vs FN
cg09941208	0.367	0.639	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg02561009	0.590	0.842	-0.253	1e-05	NA	Hypomethylated in FP vs FN
cg00966141	0.515	0.773	-0.258	1e-05	NA	Hypomethylated in FP vs FN
cg23111106	0.408	0.720	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg11191210	0.450	0.798	-0.349	1e-05	VGLL2	Hypomethylated in FP vs FN
cg11435225	0.485	0.740	-0.255	1e-05	NA	Hypomethylated in FP vs FN
cg07918545	0.199	0.621	-0.422	1e-05	FOXI2	Hypomethylated in FP vs FN
cg10655471	0.339	0.685	-0.346	1e-05	NA	Hypomethylated in FP vs FN
cg06729806	0.287	0.594	-0.307	1e-05	NA	Hypomethylated in FP vs FN
cg17530965	0.592	0.898	-0.306	1e-05	NA	Hypomethylated in FP vs FN
cg21113846	0.291	0.561	-0.270	1e-05	NA	Hypomethylated in FP vs FN
cg12079699	0.344	0.620	-0.276	1e-05	NA	Hypomethylated in FP vs FN
cg04602007	0.253	0.564	-0.311	1e-05	NA	Hypomethylated in FP vs FN
cg22687077	0.563	0.830	-0.266	1e-05	NA	Hypomethylated in FP vs FN
cg13605615	0.417	0.687	-0.270	1e-05	DIRAS3	Hypomethylated in FP vs FN
cg12073016	0.391	0.666	-0.276	1e-05	CRABP1	Hypomethylated in FP vs FN
cg15030449	0.142	0.535	-0.393	1e-05	NA	Hypomethylated in FP vs FN
cg15763823	0.344	0.600	-0.255	1e-05	NA	Hypomethylated in FP vs FN
cg07736716	0.379	0.673	-0.294	1e-05	CA1	Hypomethylated in FP vs FN
cg08431709	0.487	0.750	-0.262	1e-05	NA	Hypomethylated in FP vs FN
cg24009656	0.315	0.646	-0.331	1e-05	NA	Hypomethylated in FP vs FN
cg01783730	0.387	0.734	-0.347	1e-05	NA	Hypomethylated in FP vs FN
cg15584954	0.343	0.641	-0.297	1e-05	NA	Hypomethylated in FP vs FN
cg22307444	0.414	0.713	-0.299	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00349404	0.311	0.563	-0.252	1e-05	NA	Hypomethylated in FP vs FN
cg14509967	0.245	0.587	-0.342	1e-05	NA	Hypomethylated in FP vs FN
cg03599774	0.492	0.806	-0.313	1e-05	NA	Hypomethylated in FP vs FN
cg00491255	0.251	0.636	-0.384	1e-05	NA	Hypomethylated in FP vs FN
cg09255473	0.437	0.764	-0.327	1e-05	SDK1	Hypomethylated in FP vs FN
cg03018634	0.535	0.806	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg05328547	0.214	0.572	-0.358	1e-05	FERD3L	Hypomethylated in FP vs FN
cg17718960	0.403	0.685	-0.282	1e-05	NA	Hypomethylated in FP vs FN
cg00292971	0.412	0.716	-0.304	1e-05	FAM131B	Hypomethylated in FP vs FN
cg26681139	0.362	0.669	-0.307	1e-05	NA	Hypomethylated in FP vs FN
cg05833067	0.454	0.747	-0.293	1e-05	NA	Hypomethylated in FP vs FN
cg06775073	0.384	0.717	-0.333	1e-05	NA	Hypomethylated in FP vs FN
cg17754473	0.472	0.785	-0.312	1e-05	NA	Hypomethylated in FP vs FN
cg09290893	0.491	0.759	-0.268	1e-05	NA	Hypomethylated in FP vs FN
cg05693450	0.538	0.817	-0.279	1e-05	KCNU1	Hypomethylated in FP vs FN
cg04874580	0.407	0.729	-0.322	1e-05	NA	Hypomethylated in FP vs FN
cg08106205	0.481	0.798	-0.317	1e-05	NA	Hypomethylated in FP vs FN
cg25340403	0.453	0.731	-0.278	1e-05	LYPD3	Hypomethylated in FP vs FN
cg00268685	0.530	0.782	-0.252	1e-05	CHST14	Hypomethylated in FP vs FN
cg16947791	0.433	0.723	-0.289	1e-05	NA	Hypomethylated in FP vs FN
cg05132150	0.404	0.730	-0.326	1e-05	NA	Hypomethylated in FP vs FN
cg13432945	0.316	0.601	-0.285	1e-05	NA	Hypomethylated in FP vs FN
cg04197847	0.446	0.748	-0.302	1e-05	NA	Hypomethylated in FP vs FN
cg27203895	0.487	0.760	-0.273	1e-05	NA	Hypomethylated in FP vs FN
cg24426778	0.478	0.793	-0.315	1e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24583452	0.488	0.769	-0.281	1e-05	NA	Hypomethylated in FP vs FN
cg16882206	0.550	0.822	-0.272	1e-05	NA	Hypomethylated in FP vs FN
cg12837463	0.351	0.638	-0.287	1e-05	NA	Hypomethylated in FP vs FN
cg01192900	0.138	0.511	-0.372	1e-05	BTG4_MIR34C	Hypomethylated in FP vs FN
cg11147866	0.432	0.732	-0.300	1e-05	NA	Hypomethylated in FP vs FN
cg13865347	0.460	0.752	-0.292	1e-05	NA	Hypomethylated in FP vs FN
cg15631458	0.194	0.456	-0.263	1e-05	NA	Hypomethylated in FP vs FN
cg07891533	0.191	0.453	-0.262	1e-05	NA	Hypomethylated in FP vs FN
cg18996760	0.607	0.884	-0.277	1e-05	NA	Hypomethylated in FP vs FN
cg19908556	0.077	0.484	-0.407	1e-05	NA	Hypomethylated in FP vs FN
cg08814405	0.202	0.540	-0.339	1e-05	NA	Hypomethylated in FP vs FN
cg05065507	0.241	0.677	-0.436	1e-05	TACSTD2	Hypomethylated in FP vs FN
cg15706250	0.268	0.546	-0.279	1e-05	NA	Hypomethylated in FP vs FN
cg11418595	0.305	0.583	-0.278	1e-05	HOXD1	Hypomethylated in FP vs FN
cg12259537	0.133	0.416	-0.283	1e-05	ZNF606	Hypomethylated in FP vs FN
cg20934839	0.369	0.662	-0.293	1e-05	NA	Hypomethylated in FP vs FN
cg02872868	0.323	0.648	-0.325	1e-05	NA	Hypomethylated in FP vs FN
cg14546128	0.282	0.627	-0.344	1e-05	NA	Hypomethylated in FP vs FN
cg19594666	0.333	0.739	-0.406	1e-05	LEP	Hypomethylated in FP vs FN
cg13897241	0.446	0.720	-0.274	1e-05	FLJ39609	Hypomethylated in FP vs FN
cg08238568	0.432	0.755	-0.322	1e-05	NA	Hypomethylated in FP vs FN
cg23012591	0.446	0.745	-0.299	1e-05	NA	Hypomethylated in FP vs FN
cg04385236	0.133	0.543	-0.410	1e-05	C3orf55	Hypomethylated in FP vs FN
cg21708692	0.330	0.681	-0.352	1e-05	NA	Hypomethylated in FP vs FN
cg22526990	0.354	0.613	-0.258	1e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19568544	0.351	0.696	-0.345	1e-05	PCDHB5	Hypomethylated in FP vs FN
cg14769021	0.355	0.625	-0.269	1e-05	NA	Hypomethylated in FP vs FN
cg22431753	0.377	0.683	-0.305	1e-05	NA	Hypomethylated in FP vs FN
cg02527190	0.579	0.832	-0.253	1e-05	SLC27A6	Hypomethylated in FP vs FN
cg24181389	0.427	0.712	-0.285	1e-05	NA	Hypomethylated in FP vs FN
cg24483554	0.387	0.679	-0.292	1e-05	NA	Hypomethylated in FP vs FN
cg13206556	0.283	0.534	-0.251	1e-05	NA	Hypomethylated in FP vs FN
cg00422120	0.266	0.530	-0.265	1e-05	NA	Hypomethylated in FP vs FN
cg26079753	0.294	0.728	-0.434	1e-05	NA	Hypomethylated in FP vs FN
cg05465059	0.572	0.823	-0.251	1e-05	NA	Hypomethylated in FP vs FN
cg15001056	0.457	0.758	-0.301	1e-05	NA	Hypomethylated in FP vs FN
cg01271423	0.536	0.786	-0.250	1e-05	NA	Hypomethylated in FP vs FN
cg00835857	0.338	0.619	-0.281	1e-05	SPATC1	Hypomethylated in FP vs FN
cg11199046	0.185	0.532	-0.346	1e-05	NA	Hypomethylated in FP vs FN
cg03295542	0.286	0.615	-0.329	1e-05	NA	Hypomethylated in FP vs FN
cg09254322	0.247	0.570	-0.323	1e-05	NA	Hypomethylated in FP vs FN
cg13401840	0.399	0.683	-0.284	2e-05	NA	Hypomethylated in FP vs FN
cg23359363	0.405	0.751	-0.346	2e-05	NA	Hypomethylated in FP vs FN
cg18712566	0.382	0.699	-0.316	2e-05	NA	Hypomethylated in FP vs FN
cg25603587	0.295	0.549	-0.254	2e-05	NA	Hypomethylated in FP vs FN
cg03826564	0.291	0.591	-0.300	2e-05	NA	Hypomethylated in FP vs FN
cg13434142	0.451	0.712	-0.261	2e-05	NA	Hypomethylated in FP vs FN
cg21334598	0.137	0.509	-0.372	2e-05	NA	Hypomethylated in FP vs FN
cg15645203	0.286	0.602	-0.316	2e-05	NA	Hypomethylated in FP vs FN
cg02081266	0.287	0.689	-0.402	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23330212	0.254	0.552	-0.298	2e-05	NA	Hypomethylated in FP vs FN
cg03009158	0.143	0.445	-0.302	2e-05	NA	Hypomethylated in FP vs FN
cg08319905	0.512	0.778	-0.266	2e-05	NA	Hypomethylated in FP vs FN
cg11263011	0.436	0.753	-0.317	2e-05	MIR195_MIR497	Hypomethylated in FP vs FN
cg07962338	0.216	0.567	-0.351	2e-05	NA	Hypomethylated in FP vs FN
cg04557197	0.235	0.618	-0.383	2e-05	NA	Hypomethylated in FP vs FN
cg02906503	0.430	0.686	-0.256	2e-05	NA	Hypomethylated in FP vs FN
cg11654024	0.169	0.425	-0.255	2e-05	NA	Hypomethylated in FP vs FN
cg14006798	0.353	0.643	-0.290	2e-05	NA	Hypomethylated in FP vs FN
cg01622385	0.260	0.536	-0.276	2e-05	NA	Hypomethylated in FP vs FN
cg26458775	0.598	0.853	-0.255	2e-05	NA	Hypomethylated in FP vs FN
cg19783160	0.487	0.755	-0.268	2e-05	NA	Hypomethylated in FP vs FN
cg02399524	0.179	0.507	-0.328	2e-05	HRASLS5	Hypomethylated in FP vs FN
cg04442017	0.462	0.742	-0.280	2e-05	NA	Hypomethylated in FP vs FN
cg24915915	0.417	0.678	-0.261	2e-05	NA	Hypomethylated in FP vs FN
cg01078582	0.382	0.675	-0.293	2e-05	NA	Hypomethylated in FP vs FN
cg04895288	0.237	0.647	-0.410	2e-05	NA	Hypomethylated in FP vs FN
cg17361896	0.306	0.644	-0.338	2e-05	NA	Hypomethylated in FP vs FN
cg24252695	0.464	0.764	-0.300	2e-05	NA	Hypomethylated in FP vs FN
cg25851313	0.410	0.717	-0.307	2e-05	FAM131C	Hypomethylated in FP vs FN
cg07754492	0.234	0.520	-0.286	2e-05	CASP10	Hypomethylated in FP vs FN
cg20963030	0.309	0.645	-0.337	2e-05	ATP10B	Hypomethylated in FP vs FN
cg21775463	0.338	0.611	-0.274	2e-05	NA	Hypomethylated in FP vs FN
cg00135497	0.248	0.576	-0.328	2e-05	NA	Hypomethylated in FP vs FN
cg23849078	0.058	0.444	-0.386	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15373592	0.357	0.664	-0.307	2e-05	NA	Hypomethylated in FP vs FN
cg24587080	0.320	0.624	-0.304	2e-05	NA	Hypomethylated in FP vs FN
cg25562664	0.194	0.464	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg16440058	0.187	0.630	-0.442	2e-05	NA	Hypomethylated in FP vs FN
cg01582937	0.475	0.776	-0.301	2e-05	NA	Hypomethylated in FP vs FN
cg01914838	0.571	0.881	-0.310	2e-05	NA	Hypomethylated in FP vs FN
cg13888593	0.186	0.591	-0.405	2e-05	NA	Hypomethylated in FP vs FN
cg04269530	0.299	0.580	-0.281	2e-05	NA	Hypomethylated in FP vs FN
cg04107003	0.271	0.524	-0.252	2e-05	NA	Hypomethylated in FP vs FN
cg08711281	0.489	0.786	-0.297	2e-05	DPCR1	Hypomethylated in FP vs FN
cg03670736	0.476	0.786	-0.310	2e-05	NA	Hypomethylated in FP vs FN
cg11651209	0.421	0.732	-0.311	2e-05	NA	Hypomethylated in FP vs FN
cg26690075	0.342	0.716	-0.374	2e-05	WNT16	Hypomethylated in FP vs FN
cg14873600	0.278	0.615	-0.337	2e-05	NA	Hypomethylated in FP vs FN
cg19251161	0.486	0.745	-0.259	2e-05	ITPRIP	Hypomethylated in FP vs FN
cg19609912	0.413	0.695	-0.282	2e-05	NA	Hypomethylated in FP vs FN
cg16223863	0.130	0.400	-0.269	2e-05	ADRB3	Hypomethylated in FP vs FN
cg03932723	0.159	0.509	-0.351	2e-05	HRASLS5	Hypomethylated in FP vs FN
cg22333412	0.479	0.762	-0.282	2e-05	NA	Hypomethylated in FP vs FN
cg04074536	0.468	0.805	-0.337	2e-05	NA	Hypomethylated in FP vs FN
cg10362172	0.279	0.657	-0.378	2e-05	NA	Hypomethylated in FP vs FN
cg04265492	0.348	0.616	-0.267	2e-05	NA	Hypomethylated in FP vs FN
cg26010877	0.416	0.803	-0.387	2e-05	NA	Hypomethylated in FP vs FN
cg10347335	0.272	0.688	-0.416	2e-05	TACSTD2	Hypomethylated in FP vs FN
cg16896313	0.361	0.646	-0.285	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11939450	0.433	0.707	-0.274	2e-05	NA	Hypomethylated in FP vs FN
cg09600715	0.304	0.561	-0.257	2e-05	NA	Hypomethylated in FP vs FN
cg08668316	0.288	0.607	-0.319	2e-05	NA	Hypomethylated in FP vs FN
cg24979093	0.434	0.758	-0.325	2e-05	DSCR10	Hypomethylated in FP vs FN
cg12505170	0.163	0.581	-0.419	2e-05	NA	Hypomethylated in FP vs FN
cg13859860	0.508	0.780	-0.271	2e-05	NA	Hypomethylated in FP vs FN
cg10410483	0.505	0.763	-0.258	2e-05	NA	Hypomethylated in FP vs FN
cg22280705	0.130	0.480	-0.350	2e-05	GALNT3	Hypomethylated in FP vs FN
cg15416643	0.281	0.657	-0.376	2e-05	NA	Hypomethylated in FP vs FN
cg09556826	0.421	0.804	-0.383	2e-05	NA	Hypomethylated in FP vs FN
cg23157618	0.398	0.715	-0.317	2e-05	NA	Hypomethylated in FP vs FN
cg00742738	0.590	0.852	-0.262	2e-05	NA	Hypomethylated in FP vs FN
cg08731067	0.393	0.702	-0.309	2e-05	NA	Hypomethylated in FP vs FN
cg05413277	0.194	0.530	-0.335	2e-05	NA	Hypomethylated in FP vs FN
cg05801879	0.460	0.715	-0.255	2e-05	NA	Hypomethylated in FP vs FN
cg24307102	0.247	0.573	-0.326	2e-05	NA	Hypomethylated in FP vs FN
cg04659582	0.148	0.406	-0.259	2e-05	NA	Hypomethylated in FP vs FN
cg12324708	0.301	0.665	-0.364	2e-05	NA	Hypomethylated in FP vs FN
cg26368431	0.410	0.693	-0.283	2e-05	NA	Hypomethylated in FP vs FN
cg08876039	0.440	0.745	-0.305	2e-05	NA	Hypomethylated in FP vs FN
cg07648238	0.151	0.584	-0.433	2e-05	LTBR	Hypomethylated in FP vs FN
cg23586959	0.274	0.583	-0.309	2e-05	NCRNA00028	Hypomethylated in FP vs FN
cg09628704	0.391	0.726	-0.335	2e-05	NA	Hypomethylated in FP vs FN
cg19634213	0.111	0.496	-0.386	2e-05	PTEN_KILLIN	Hypomethylated in FP vs FN
cg03224627	0.364	0.643	-0.279	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04655481	0.180	0.457	-0.277	2e-05	GPR21	Hypomethylated in FP vs FN
cg03078269	0.336	0.767	-0.431	2e-05	NA	Hypomethylated in FP vs FN
cg26945725	0.501	0.757	-0.256	2e-05	NA	Hypomethylated in FP vs FN
cg09571369	0.455	0.763	-0.308	2e-05	P2RY14	Hypomethylated in FP vs FN
cg13947995	0.127	0.501	-0.374	2e-05	FES	Hypomethylated in FP vs FN
cg05712125	0.468	0.772	-0.304	2e-05	NA	Hypomethylated in FP vs FN
cg25203627	0.347	0.633	-0.286	2e-05	NA	Hypomethylated in FP vs FN
cg21502834	0.384	0.724	-0.339	2e-05	TFAP2B	Hypomethylated in FP vs FN
cg16373526	0.433	0.702	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg02466815	0.319	0.648	-0.329	2e-05	NA	Hypomethylated in FP vs FN
cg02757236	0.548	0.821	-0.273	2e-05	ERMN	Hypomethylated in FP vs FN
cg17334762	0.301	0.719	-0.418	2e-05	NA	Hypomethylated in FP vs FN
cg27252467	0.425	0.734	-0.309	2e-05	NA	Hypomethylated in FP vs FN
cg21503904	0.410	0.714	-0.304	2e-05	NA	Hypomethylated in FP vs FN
cg02593884	0.379	0.657	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg07709210	0.400	0.676	-0.276	2e-05	PGC	Hypomethylated in FP vs FN
cg07380095	0.224	0.520	-0.296	2e-05	PLEKHG1	Hypomethylated in FP vs FN
cg15017004	0.152	0.594	-0.442	2e-05	NA	Hypomethylated in FP vs FN
cg09516476	0.117	0.413	-0.296	2e-05	NA	Hypomethylated in FP vs FN
cg03396005	0.628	0.878	-0.250	2e-05	NA	Hypomethylated in FP vs FN
cg22785852	0.340	0.631	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg27384695	0.331	0.671	-0.341	2e-05	NA	Hypomethylated in FP vs FN
cg15664152	0.456	0.706	-0.251	2e-05	NA	Hypomethylated in FP vs FN
cg03353445	0.256	0.532	-0.276	2e-05	GPRC5A	Hypomethylated in FP vs FN
cg25194822	0.140	0.420	-0.279	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02671204	0.539	0.827	-0.288	2e-05	SLC38A8	Hypomethylated in FP vs FN
cg27208169	0.425	0.727	-0.302	2e-05	NA	Hypomethylated in FP vs FN
cg01014615	0.461	0.786	-0.325	2e-05	HOXD3	Hypomethylated in FP vs FN
cg22628281	0.150	0.501	-0.351	2e-05	NA	Hypomethylated in FP vs FN
cg17295573	0.467	0.731	-0.264	2e-05	NA	Hypomethylated in FP vs FN
cg04636841	0.218	0.591	-0.373	2e-05	NA	Hypomethylated in FP vs FN
cg25464921	0.183	0.606	-0.423	2e-05	NA	Hypomethylated in FP vs FN
cg06538870	0.411	0.713	-0.303	2e-05	SERPINB13	Hypomethylated in FP vs FN
cg21786289	0.381	0.664	-0.283	2e-05	FLJ39609	Hypomethylated in FP vs FN
cg00403251	0.395	0.690	-0.294	2e-05	NA	Hypomethylated in FP vs FN
cg05210558	0.424	0.753	-0.329	2e-05	NA	Hypomethylated in FP vs FN
cg02150135	0.180	0.469	-0.288	2e-05	POM121L2	Hypomethylated in FP vs FN
cg17914485	0.489	0.782	-0.292	2e-05	NA	Hypomethylated in FP vs FN
cg01171212	0.433	0.705	-0.272	2e-05	NA	Hypomethylated in FP vs FN
cg00034559	0.406	0.710	-0.304	2e-05	TMEM178	Hypomethylated in FP vs FN
cg25038317	0.349	0.714	-0.366	2e-05	NA	Hypomethylated in FP vs FN
cg08465774	0.528	0.802	-0.274	2e-05	NA	Hypomethylated in FP vs FN
cg19235339	0.103	0.504	-0.401	2e-05	RNLS	Hypomethylated in FP vs FN
cg09372750	0.402	0.684	-0.281	2e-05	SLC22A17	Hypomethylated in FP vs FN
cg17775765	0.450	0.720	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg11062798	0.453	0.722	-0.269	2e-05	MUC21	Hypomethylated in FP vs FN
cg03861347	0.330	0.612	-0.282	2e-05	NA	Hypomethylated in FP vs FN
cg05242915	0.400	0.679	-0.279	2e-05	NA	Hypomethylated in FP vs FN
cg13630878	0.401	0.677	-0.277	2e-05	NA	Hypomethylated in FP vs FN
cg07330481	0.329	0.732	-0.403	2e-05	ARL5C	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07526656	0.225	0.495	-0.270	2e-05	LOC283314	Hypomethylated in FP vs FN
cg07147449	0.094	0.495	-0.401	2e-05	NA	Hypomethylated in FP vs FN
cg02330721	0.557	0.810	-0.253	2e-05	NA	Hypomethylated in FP vs FN
cg18021368	0.290	0.658	-0.368	2e-05	PCDHB5	Hypomethylated in FP vs FN
cg18865990	0.391	0.683	-0.292	2e-05	NA	Hypomethylated in FP vs FN
cg15065169	0.545	0.803	-0.258	2e-05	NA	Hypomethylated in FP vs FN
cg10318528	0.311	0.624	-0.313	2e-05	NA	Hypomethylated in FP vs FN
cg07091758	0.261	0.545	-0.284	2e-05	PKD1L2	Hypomethylated in FP vs FN
cg10002185	0.584	0.851	-0.267	2e-05	NA	Hypomethylated in FP vs FN
cg21213426	0.498	0.774	-0.275	2e-05	NA	Hypomethylated in FP vs FN
cg10288921	0.545	0.822	-0.276	2e-05	NA	Hypomethylated in FP vs FN
cg14356608	0.255	0.622	-0.367	2e-05	NA	Hypomethylated in FP vs FN
cg10043037	0.128	0.387	-0.260	2e-05	FERD3L	Hypomethylated in FP vs FN
cg07857792	0.147	0.437	-0.290	2e-05	KCNN1	Hypomethylated in FP vs FN
cg04351205	0.336	0.679	-0.343	2e-05	ARHGAP15	Hypomethylated in FP vs FN
cg06035250	0.511	0.785	-0.273	2e-05	ALPL	Hypomethylated in FP vs FN
cg18842563	0.189	0.513	-0.324	2e-05	NA	Hypomethylated in FP vs FN
cg27452341	0.087	0.421	-0.334	2e-05	NA	Hypomethylated in FP vs FN
cg24329557	0.317	0.573	-0.256	2e-05	GCM2	Hypomethylated in FP vs FN
cg27354537	0.296	0.629	-0.333	2e-05	NA	Hypomethylated in FP vs FN
cg10291141	0.109	0.387	-0.278	2e-05	NHLRC1	Hypomethylated in FP vs FN
cg02904657	0.326	0.617	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg03350154	0.498	0.756	-0.259	2e-05	NA	Hypomethylated in FP vs FN
cg19791637	0.410	0.679	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg12750031	0.488	0.771	-0.283	2e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03569068	0.524	0.832	-0.308	2e-05	NA	Hypomethylated in FP vs FN
cg18127481	0.333	0.664	-0.330	2e-05	NA	Hypomethylated in FP vs FN
cg07136554	0.486	0.752	-0.266	2e-05	NA	Hypomethylated in FP vs FN
cg14288066	0.600	0.851	-0.250	2e-05	NA	Hypomethylated in FP vs FN
cg07435275	0.215	0.468	-0.254	2e-05	NA	Hypomethylated in FP vs FN
cg10089801	0.244	0.594	-0.351	2e-05	NA	Hypomethylated in FP vs FN
cg19475988	0.386	0.749	-0.364	2e-05	NA	Hypomethylated in FP vs FN
cg06160606	0.566	0.841	-0.275	2e-05	NA	Hypomethylated in FP vs FN
cg07290920	0.226	0.546	-0.320	2e-05	NA	Hypomethylated in FP vs FN
cg12046677	0.485	0.775	-0.290	2e-05	NA	Hypomethylated in FP vs FN
cg10774282	0.504	0.785	-0.281	2e-05	SLC1A7	Hypomethylated in FP vs FN
cg22632523	0.311	0.590	-0.279	2e-05	NA	Hypomethylated in FP vs FN
cg07169289	0.584	0.850	-0.267	2e-05	NA	Hypomethylated in FP vs FN
cg26104815	0.450	0.750	-0.299	2e-05	NA	Hypomethylated in FP vs FN
cg19938167	0.470	0.765	-0.295	2e-05	NA	Hypomethylated in FP vs FN
cg19656282	0.427	0.752	-0.326	2e-05	NA	Hypomethylated in FP vs FN
cg10968944	0.363	0.626	-0.263	2e-05	NA	Hypomethylated in FP vs FN
cg14359824	0.262	0.631	-0.369	2e-05	C9orf135	Hypomethylated in FP vs FN
cg01160452	0.507	0.761	-0.254	2e-05	KCNK18	Hypomethylated in FP vs FN
cg00090261	0.259	0.663	-0.404	2e-05	RGS22	Hypomethylated in FP vs FN
cg00836482	0.163	0.528	-0.365	2e-05	NA	Hypomethylated in FP vs FN
cg14217495	0.237	0.500	-0.263	2e-05	NA	Hypomethylated in FP vs FN
cg13903179	0.196	0.549	-0.352	2e-05	NA	Hypomethylated in FP vs FN
cg00044107	0.481	0.734	-0.253	2e-05	NA	Hypomethylated in FP vs FN
cg04543938	0.358	0.744	-0.386	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19022697	0.210	0.590	-0.380	2e-05	NA	Hypomethylated in FP vs FN
cg13845692	0.465	0.750	-0.285	2e-05	NA	Hypomethylated in FP vs FN
cg01907426	0.471	0.756	-0.285	2e-05	NA	Hypomethylated in FP vs FN
cg16659728	0.482	0.734	-0.253	2e-05	MRGPRD	Hypomethylated in FP vs FN
cg05388963	0.464	0.755	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg06002638	0.463	0.748	-0.285	2e-05	NA	Hypomethylated in FP vs FN
cg13689204	0.582	0.837	-0.256	2e-05	NA	Hypomethylated in FP vs FN
cg16900980	0.049	0.317	-0.268	2e-05	NA	Hypomethylated in FP vs FN
cg25858249	0.263	0.548	-0.285	2e-05	PLEKHG1	Hypomethylated in FP vs FN
cg12755298	0.083	0.342	-0.259	2e-05	CYP7B1	Hypomethylated in FP vs FN
cg03058660	0.154	0.506	-0.351	2e-05	NA	Hypomethylated in FP vs FN
cg18798099	0.443	0.757	-0.314	2e-05	NA	Hypomethylated in FP vs FN
cg01778589	0.422	0.719	-0.297	2e-05	NA	Hypomethylated in FP vs FN
cg23034373	0.481	0.738	-0.258	2e-05	CLDN14	Hypomethylated in FP vs FN
cg14700325	0.449	0.699	-0.250	2e-05	NA	Hypomethylated in FP vs FN
cg00023726	0.564	0.845	-0.281	2e-05	NA	Hypomethylated in FP vs FN
cg25994871	0.433	0.708	-0.275	2e-05	NA	Hypomethylated in FP vs FN
cg02849507	0.341	0.645	-0.305	2e-05	NA	Hypomethylated in FP vs FN
cg11216917	0.141	0.506	-0.365	2e-05	NA	Hypomethylated in FP vs FN
cg03125400	0.353	0.629	-0.276	2e-05	NA	Hypomethylated in FP vs FN
cg05412788	0.435	0.789	-0.354	2e-05	NA	Hypomethylated in FP vs FN
cg05936516	0.367	0.653	-0.286	2e-05	NA	Hypomethylated in FP vs FN
cg15715477	0.438	0.718	-0.280	2e-05	NA	Hypomethylated in FP vs FN
cg11879188	0.418	0.687	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg14744022	0.421	0.687	-0.267	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26475031	0.475	0.728	-0.253	2e-05	NA	Hypomethylated in FP vs FN
cg00674004	0.458	0.751	-0.293	2e-05	NA	Hypomethylated in FP vs FN
cg10089919	0.454	0.759	-0.304	2e-05	NA	Hypomethylated in FP vs FN
cg13523818	0.404	0.672	-0.268	2e-05	NA	Hypomethylated in FP vs FN
cg06844661	0.411	0.692	-0.281	2e-05	NA	Hypomethylated in FP vs FN
cg16911810	0.333	0.667	-0.334	2e-05	NA	Hypomethylated in FP vs FN
cg24555670	0.478	0.805	-0.327	2e-05	NA	Hypomethylated in FP vs FN
cg25799994	0.142	0.552	-0.411	2e-05	GALNT3	Hypomethylated in FP vs FN
cg00319595	0.577	0.864	-0.287	2e-05	BCAR1	Hypomethylated in FP vs FN
cg26576454	0.494	0.754	-0.260	2e-05	NA	Hypomethylated in FP vs FN
cg09932747	0.315	0.686	-0.371	2e-05	NA	Hypomethylated in FP vs FN
cg10781632	0.463	0.737	-0.274	2e-05	NA	Hypomethylated in FP vs FN
cg20211463	0.235	0.576	-0.341	2e-05	NA	Hypomethylated in FP vs FN
cg23589587	0.330	0.615	-0.286	2e-05	NA	Hypomethylated in FP vs FN
cg07177174	0.384	0.735	-0.351	2e-05	LPA	Hypomethylated in FP vs FN
cg00872151	0.408	0.732	-0.324	2e-05	NA	Hypomethylated in FP vs FN
cg17465304	0.408	0.717	-0.309	2e-05	KIF12	Hypomethylated in FP vs FN
cg20744756	0.410	0.693	-0.283	2e-05	NA	Hypomethylated in FP vs FN
cg02637318	0.148	0.582	-0.434	2e-05	ADAM32	Hypomethylated in FP vs FN
cg15681626	0.149	0.523	-0.374	2e-05	NA	Hypomethylated in FP vs FN
cg24762931	0.436	0.708	-0.272	2e-05	NA	Hypomethylated in FP vs FN
cg23631930	0.474	0.741	-0.267	2e-05	CMTM5	Hypomethylated in FP vs FN
cg07925549	0.403	0.700	-0.297	2e-05	KRT75	Hypomethylated in FP vs FN
cg14839134	0.384	0.708	-0.323	2e-05	NA	Hypomethylated in FP vs FN
cg04217380	0.486	0.760	-0.274	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03168947	0.326	0.580	-0.254	2e-05	TRAK1	Hypomethylated in FP vs FN
cg25320115	0.135	0.563	-0.428	2e-05	KLHDC9	Hypomethylated in FP vs FN
cg11291798	0.524	0.812	-0.287	2e-05	NA	Hypomethylated in FP vs FN
cg07725033	0.379	0.677	-0.298	2e-05	LOC285629	Hypomethylated in FP vs FN
cg20023647	0.443	0.698	-0.255	2e-05	NA	Hypomethylated in FP vs FN
cg08378830	0.227	0.629	-0.401	2e-05	NA	Hypomethylated in FP vs FN
cg00720747	0.406	0.751	-0.346	2e-05	NA	Hypomethylated in FP vs FN
cg08740698	0.190	0.612	-0.422	2e-05	LTBR	Hypomethylated in FP vs FN
cg14016200	0.406	0.709	-0.302	2e-05	ICAM5	Hypomethylated in FP vs FN
cg16474118	0.338	0.648	-0.311	2e-05	NA	Hypomethylated in FP vs FN
cg22301418	0.282	0.680	-0.397	2e-05	NA	Hypomethylated in FP vs FN
cg16818372	0.497	0.775	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg13641903	0.411	0.690	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg24521811	0.501	0.753	-0.251	2e-05	NA	Hypomethylated in FP vs FN
cg18077580	0.361	0.681	-0.319	2e-05	NA	Hypomethylated in FP vs FN
cg19752855	0.466	0.758	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg00806214	0.403	0.703	-0.300	2e-05	NA	Hypomethylated in FP vs FN
cg25471923	0.326	0.587	-0.261	2e-05	NA	Hypomethylated in FP vs FN
cg03651493	0.176	0.496	-0.320	2e-05	NA	Hypomethylated in FP vs FN
cg26190835	0.401	0.692	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg03523254	0.408	0.717	-0.309	2e-05	NA	Hypomethylated in FP vs FN
cg03148084	0.493	0.799	-0.306	2e-05	CNDP1	Hypomethylated in FP vs FN
cg21970261	0.337	0.633	-0.296	2e-05	TFF3	Hypomethylated in FP vs FN
cg14348741	0.171	0.527	-0.356	2e-05	NA	Hypomethylated in FP vs FN
cg09451960	0.320	0.726	-0.406	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02343503	0.132	0.423	-0.292	2e-05	NA	Hypomethylated in FP vs FN
cg11160408	0.569	0.820	-0.252	2e-05	NA	Hypomethylated in FP vs FN
cg19431272	0.243	0.548	-0.305	2e-05	NA	Hypomethylated in FP vs FN
cg20579012	0.439	0.738	-0.299	2e-05	NA	Hypomethylated in FP vs FN
cg24704177	0.313	0.683	-0.370	2e-05	HOXD3	Hypomethylated in FP vs FN
cg17161419	0.149	0.412	-0.263	2e-05	NA	Hypomethylated in FP vs FN
cg05002837	0.547	0.799	-0.251	2e-05	NA	Hypomethylated in FP vs FN
cg09430664	0.401	0.673	-0.272	2e-05	NA	Hypomethylated in FP vs FN
cg00294940	0.372	0.677	-0.305	2e-05	SLC5A9	Hypomethylated in FP vs FN
cg15645463	0.400	0.673	-0.273	2e-05	SIGIRR	Hypomethylated in FP vs FN
cg17636752	0.255	0.603	-0.348	2e-05	NA	Hypomethylated in FP vs FN
cg23651323	0.098	0.443	-0.344	2e-05	KLHDC9	Hypomethylated in FP vs FN
cg05539265	0.365	0.708	-0.343	2e-05	NA	Hypomethylated in FP vs FN
cg03236184	0.292	0.606	-0.314	2e-05	PTEN_KILLIN	Hypomethylated in FP vs FN
cg24276681	0.117	0.510	-0.392	2e-05	NA	Hypomethylated in FP vs FN
cg04428163	0.426	0.729	-0.303	2e-05	SDCBP2	Hypomethylated in FP vs FN
cg06357371	0.513	0.767	-0.254	2e-05	NA	Hypomethylated in FP vs FN
cg22985033	0.492	0.776	-0.284	2e-05	LBP	Hypomethylated in FP vs FN
cg21460686	0.490	0.812	-0.323	2e-05	NA	Hypomethylated in FP vs FN
cg05307477	0.401	0.684	-0.284	2e-05	KCNK18	Hypomethylated in FP vs FN
cg05045343	0.124	0.535	-0.410	2e-05	NA	Hypomethylated in FP vs FN
cg09782097	0.315	0.653	-0.338	2e-05	PCDHB5	Hypomethylated in FP vs FN
cg10999749	0.513	0.775	-0.262	2e-05	NA	Hypomethylated in FP vs FN
cg22831029	0.330	0.667	-0.337	2e-05	NA	Hypomethylated in FP vs FN
cg09508476	0.391	0.675	-0.284	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25831752	0.448	0.726	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg13558105	0.433	0.715	-0.282	2e-05	NA	Hypomethylated in FP vs FN
cg13078381	0.262	0.563	-0.301	2e-05	NA	Hypomethylated in FP vs FN
cg05421528	0.091	0.369	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg26814075	0.355	0.726	-0.371	2e-05	LEP	Hypomethylated in FP vs FN
cg06792065	0.186	0.588	-0.402	2e-05	NA	Hypomethylated in FP vs FN
cg14525610	0.552	0.808	-0.256	2e-05	NA	Hypomethylated in FP vs FN
cg27247807	0.357	0.626	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg19734830	0.335	0.627	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg03334052	0.368	0.621	-0.253	2e-05	NA	Hypomethylated in FP vs FN
cg26212163	0.134	0.404	-0.270	2e-05	LOC134466	Hypomethylated in FP vs FN
cg08893692	0.182	0.628	-0.446	2e-05	NA	Hypomethylated in FP vs FN
cg06573604	0.266	0.702	-0.436	2e-05	NA	Hypomethylated in FP vs FN
cg07186962	0.251	0.521	-0.270	2e-05	NA	Hypomethylated in FP vs FN
cg05000860	0.396	0.755	-0.359	2e-05	NA	Hypomethylated in FP vs FN
cg01908462	0.225	0.558	-0.333	2e-05	NA	Hypomethylated in FP vs FN
cg00780456	0.336	0.596	-0.260	2e-05	NA	Hypomethylated in FP vs FN
cg14646613	0.394	0.657	-0.263	2e-05	NA	Hypomethylated in FP vs FN
cg18308285	0.132	0.388	-0.256	2e-05	ALOX15B	Hypomethylated in FP vs FN
cg07601804	0.206	0.483	-0.278	2e-05	NA	Hypomethylated in FP vs FN
cg10100556	0.351	0.705	-0.354	2e-05	NA	Hypomethylated in FP vs FN
cg08961621	0.403	0.721	-0.319	2e-05	KCNJ15	Hypomethylated in FP vs FN
cg24279418	0.090	0.341	-0.251	2e-05	NA	Hypomethylated in FP vs FN
cg07368061	0.359	0.612	-0.253	2e-05	NA	Hypomethylated in FP vs FN
cg14349078	0.543	0.808	-0.265	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26785157	0.386	0.722	-0.336	2e-05	NA	Hypomethylated in FP vs FN
cg09562285	0.586	0.842	-0.256	2e-05	NA	Hypomethylated in FP vs FN
cg26061177	0.155	0.457	-0.302	2e-05	NA	Hypomethylated in FP vs FN
cg04616691	0.103	0.496	-0.393	2e-05	PTEN_KILLIN	Hypomethylated in FP vs FN
cg04705318	0.346	0.617	-0.271	2e-05	NA	Hypomethylated in FP vs FN
cg14790876	0.383	0.687	-0.305	2e-05	NA	Hypomethylated in FP vs FN
cg24816455	0.494	0.760	-0.265	2e-05	NA	Hypomethylated in FP vs FN
cg24721964	0.229	0.557	-0.328	2e-05	CLRN1	Hypomethylated in FP vs FN
cg01381617	0.301	0.638	-0.337	2e-05	NA	Hypomethylated in FP vs FN
cg22635363	0.309	0.600	-0.291	2e-05	NA	Hypomethylated in FP vs FN
cg26767387	0.442	0.703	-0.261	2e-05	NA	Hypomethylated in FP vs FN
cg18323768	0.195	0.610	-0.415	2e-05	NA	Hypomethylated in FP vs FN
cg06890747	0.291	0.650	-0.359	2e-05	NA	Hypomethylated in FP vs FN
cg02307288	0.454	0.736	-0.282	2e-05	NA	Hypomethylated in FP vs FN
cg01336781	0.105	0.467	-0.362	2e-05	NA	Hypomethylated in FP vs FN
cg07837852	0.384	0.740	-0.356	2e-05	NA	Hypomethylated in FP vs FN
cg15961105	0.504	0.773	-0.269	2e-05	NA	Hypomethylated in FP vs FN
cg13933373	0.538	0.811	-0.272	2e-05	NA	Hypomethylated in FP vs FN
cg16446738	0.509	0.759	-0.250	2e-05	NA	Hypomethylated in FP vs FN
cg01964170	0.339	0.610	-0.271	2e-05	NA	Hypomethylated in FP vs FN
cg04044664	0.253	0.575	-0.322	2e-05	ANKRD43	Hypomethylated in FP vs FN
cg11595575	0.345	0.679	-0.333	2e-05	PCDHA10	Hypomethylated in FP vs FN
cg02212339	0.308	0.620	-0.312	2e-05	NA	Hypomethylated in FP vs FN
cg11435943	0.338	0.683	-0.345	2e-05	SERPINB12	Hypomethylated in FP vs FN
cg11685510	0.296	0.647	-0.351	2e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12593515	0.358	0.702	-0.344	2e-05	NA	Hypomethylated in FP vs FN
cg25896734	0.310	0.652	-0.342	2e-05	NA	Hypomethylated in FP vs FN
cg20149359	0.423	0.720	-0.297	2e-05	NA	Hypomethylated in FP vs FN
cg18702197	0.256	0.609	-0.353	2e-05	HOXD3	Hypomethylated in FP vs FN
cg10377903	0.108	0.508	-0.399	2e-05	NA	Hypomethylated in FP vs FN
cg26196496	0.411	0.705	-0.294	2e-05	CRHBP	Hypomethylated in FP vs FN
cg06765217	0.222	0.656	-0.434	2e-05	NA	Hypomethylated in FP vs FN
cg01405985	0.271	0.546	-0.275	2e-05	NA	Hypomethylated in FP vs FN
cg20114732	0.134	0.444	-0.310	2e-05	NA	Hypomethylated in FP vs FN
cg00146864	0.344	0.630	-0.286	2e-05	NA	Hypomethylated in FP vs FN
cg12879425	0.250	0.545	-0.295	2e-05	STAP1	Hypomethylated in FP vs FN
cg23239574	0.263	0.573	-0.311	2e-05	NA	Hypomethylated in FP vs FN
cg13504434	0.223	0.536	-0.313	2e-05	CABP1	Hypomethylated in FP vs FN
cg02845569	0.449	0.716	-0.267	2e-05	NA	Hypomethylated in FP vs FN
cg01556514	0.506	0.758	-0.252	2e-05	NA	Hypomethylated in FP vs FN
cg04450501	0.520	0.807	-0.287	2e-05	NA	Hypomethylated in FP vs FN
cg27606671	0.558	0.817	-0.259	2e-05	NA	Hypomethylated in FP vs FN
cg19630520	0.439	0.734	-0.295	2e-05	PSMB11	Hypomethylated in FP vs FN
cg23877608	0.260	0.579	-0.320	2e-05	CCDC114	Hypomethylated in FP vs FN
cg21146184	0.127	0.500	-0.373	2e-05	NA	Hypomethylated in FP vs FN
cg12468850	0.454	0.792	-0.338	2e-05	NA	Hypomethylated in FP vs FN
cg21038740	0.228	0.564	-0.336	2e-05	NA	Hypomethylated in FP vs FN
cg07224726	0.224	0.499	-0.275	2e-05	LVRN	Hypomethylated in FP vs FN
cg16303918	0.193	0.567	-0.374	2e-05	NA	Hypomethylated in FP vs FN
cg14958663	0.124	0.389	-0.266	2e-05	NA	Hypomethylated in FP vs FN



**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06738239	0.429	0.680	-0.252	2e-05	NA	Hypomethylated in FP vs FN
cg17533563	0.322	0.634	-0.313	2e-05	NA	Hypomethylated in FP vs FN
cg16153168	0.530	0.787	-0.257	2e-05	NA	Hypomethylated in FP vs FN
cg23965061	0.147	0.470	-0.323	2e-05	TNFRSF10C	Hypomethylated in FP vs FN
cg23343273	0.446	0.738	-0.292	2e-05	NA	Hypomethylated in FP vs FN
cg17515966	0.175	0.602	-0.428	2e-05	RNF207	Hypomethylated in FP vs FN
cg02688752	0.194	0.519	-0.325	2e-05	NA	Hypomethylated in FP vs FN
cg15672437	0.222	0.643	-0.421	2e-05	NA	Hypomethylated in FP vs FN
cg16109381	0.355	0.690	-0.335	2e-05	NA	Hypomethylated in FP vs FN
cg16222491	0.420	0.747	-0.327	2e-05	NA	Hypomethylated in FP vs FN
cg27589809	0.324	0.588	-0.264	2e-05	CISH	Hypomethylated in FP vs FN
cg20242781	0.458	0.725	-0.267	2e-05	NA	Hypomethylated in FP vs FN
cg10390058	0.128	0.473	-0.344	2e-05	GALR1	Hypomethylated in FP vs FN
cg04085896	0.352	0.610	-0.258	2e-05	NA	Hypomethylated in FP vs FN
cg00050402	0.491	0.756	-0.265	3e-05	NA	Hypomethylated in FP vs FN
cg25629768	0.328	0.639	-0.312	3e-05	TIMM13	Hypomethylated in FP vs FN
cg13000080	0.384	0.650	-0.266	3e-05	NA	Hypomethylated in FP vs FN
cg22273360	0.123	0.436	-0.313	3e-05	NA	Hypomethylated in FP vs FN
cg12206199	0.115	0.490	-0.375	3e-05	LOC375196	Hypomethylated in FP vs FN
cg24233426	0.183	0.589	-0.406	3e-05	NA	Hypomethylated in FP vs FN
cg04207218	0.188	0.458	-0.271	3e-05	NA	Hypomethylated in FP vs FN
cg14250336	0.472	0.758	-0.286	3e-05	NA	Hypomethylated in FP vs FN
cg04111078	0.521	0.853	-0.332	3e-05	NA	Hypomethylated in FP vs FN
cg23181573	0.328	0.584	-0.256	3e-05	NA	Hypomethylated in FP vs FN
cg13114088	0.458	0.757	-0.299	3e-05	ERMN	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04268254	0.252	0.631	-0.379	3e-05	NA	Hypomethylated in FP vs FN
cg26804423	0.395	0.679	-0.284	3e-05	NA	Hypomethylated in FP vs FN
cg27421679	0.269	0.538	-0.270	3e-05	NA	Hypomethylated in FP vs FN
cg21858680	0.419	0.671	-0.252	3e-05	NA	Hypomethylated in FP vs FN
cg26416159	0.426	0.724	-0.298	3e-05	NA	Hypomethylated in FP vs FN
cg16726039	0.308	0.694	-0.386	3e-05	NA	Hypomethylated in FP vs FN
cg17069473	0.492	0.792	-0.300	3e-05	NA	Hypomethylated in FP vs FN
cg17383236	0.345	0.617	-0.272	3e-05	NA	Hypomethylated in FP vs FN
cg24501758	0.415	0.693	-0.279	3e-05	NA	Hypomethylated in FP vs FN
cg16810605	0.263	0.645	-0.382	3e-05	NA	Hypomethylated in FP vs FN
cg05506011	0.292	0.542	-0.250	3e-05	C3orf30	Hypomethylated in FP vs FN
cg08230177	0.273	0.658	-0.386	3e-05	NA	Hypomethylated in FP vs FN
cg09148270	0.377	0.647	-0.271	3e-05	BTG4_C11orf88	Hypomethylated in FP vs FN
cg14398860	0.270	0.684	-0.413	3e-05	NA	Hypomethylated in FP vs FN
cg10790791	0.457	0.711	-0.255	3e-05	SFRP2	Hypomethylated in FP vs FN
cg16458058	0.507	0.781	-0.274	3e-05	NA	Hypomethylated in FP vs FN
cg18746774	0.438	0.707	-0.269	3e-05	APOBEC3A	Hypomethylated in FP vs FN
cg12379940	0.073	0.457	-0.384	3e-05	SERP2	Hypomethylated in FP vs FN
cg11943820	0.501	0.761	-0.260	3e-05	ITPRIP	Hypomethylated in FP vs FN
cg05716075	0.435	0.755	-0.320	3e-05	NA	Hypomethylated in FP vs FN
cg05672223	0.352	0.654	-0.303	3e-05	NA	Hypomethylated in FP vs FN
cg21769619	0.325	0.639	-0.314	3e-05	NA	Hypomethylated in FP vs FN
cg14546505	0.577	0.832	-0.255	3e-05	NA	Hypomethylated in FP vs FN
cg23895846	0.376	0.681	-0.304	3e-05	NA	Hypomethylated in FP vs FN
cg10775792	0.103	0.407	-0.304	3e-05	PCP4L1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23796130	0.452	0.716	-0.265	3e-05	NA	Hypomethylated in FP vs FN
cg06216293	0.263	0.516	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg12883629	0.288	0.640	-0.351	3e-05	NA	Hypomethylated in FP vs FN
cg00355389	0.180	0.462	-0.282	3e-05	CLSTN2	Hypomethylated in FP vs FN
cg01175020	0.368	0.727	-0.359	3e-05	NA	Hypomethylated in FP vs FN
cg02574863	0.424	0.680	-0.257	3e-05	NA	Hypomethylated in FP vs FN
cg17440044	0.190	0.482	-0.292	3e-05	NA	Hypomethylated in FP vs FN
cg04561261	0.392	0.683	-0.291	3e-05	NA	Hypomethylated in FP vs FN
cg06312132	0.507	0.761	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg23064082	0.317	0.599	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg17955729	0.476	0.770	-0.294	3e-05	NA	Hypomethylated in FP vs FN
cg14500798	0.191	0.589	-0.398	3e-05	NA	Hypomethylated in FP vs FN
cg14050954	0.323	0.616	-0.293	3e-05	ACAP1	Hypomethylated in FP vs FN
cg16664584	0.297	0.580	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg09730801	0.285	0.628	-0.343	3e-05	DLX4	Hypomethylated in FP vs FN
cg26655344	0.478	0.739	-0.260	3e-05	NA	Hypomethylated in FP vs FN
cg13605674	0.486	0.752	-0.266	3e-05	TM4SF19	Hypomethylated in FP vs FN
cg25119690	0.241	0.601	-0.360	3e-05	NA	Hypomethylated in FP vs FN
cg16750157	0.222	0.634	-0.411	3e-05	NA	Hypomethylated in FP vs FN
cg21297772	0.419	0.673	-0.254	3e-05	SLC5A9	Hypomethylated in FP vs FN
cg06442489	0.267	0.524	-0.257	3e-05	ZSCAN18	Hypomethylated in FP vs FN
cg06188496	0.419	0.675	-0.256	3e-05	NA	Hypomethylated in FP vs FN
cg05048259	0.416	0.742	-0.326	3e-05	NA	Hypomethylated in FP vs FN
cg00424276	0.386	0.656	-0.270	3e-05	EFCAB10	Hypomethylated in FP vs FN
cg22561647	0.414	0.758	-0.344	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04669895	0.486	0.779	-0.293	3e-05	NA	Hypomethylated in FP vs FN
cg01712159	0.536	0.829	-0.293	3e-05	NA	Hypomethylated in FP vs FN
cg18880897	0.369	0.643	-0.274	3e-05	ERAP2	Hypomethylated in FP vs FN
cg19252741	0.320	0.608	-0.288	3e-05	NA	Hypomethylated in FP vs FN
cg26298967	0.237	0.525	-0.288	3e-05	NA	Hypomethylated in FP vs FN
cg03730027	0.451	0.714	-0.263	3e-05	NA	Hypomethylated in FP vs FN
cg24339704	0.522	0.793	-0.271	3e-05	NA	Hypomethylated in FP vs FN
cg19887700	0.139	0.496	-0.357	3e-05	NA	Hypomethylated in FP vs FN
cg06103642	0.146	0.523	-0.378	3e-05	NA	Hypomethylated in FP vs FN
cg16277071	0.333	0.609	-0.276	3e-05	NA	Hypomethylated in FP vs FN
cg19650253	0.426	0.705	-0.279	3e-05	NA	Hypomethylated in FP vs FN
cg27401891	0.529	0.786	-0.258	3e-05	NA	Hypomethylated in FP vs FN
cg21859562	0.536	0.808	-0.272	3e-05	NA	Hypomethylated in FP vs FN
cg13060157	0.150	0.519	-0.369	3e-05	NA	Hypomethylated in FP vs FN
cg02387326	0.185	0.602	-0.417	3e-05	NA	Hypomethylated in FP vs FN
cg01037895	0.366	0.687	-0.322	3e-05	ALPL	Hypomethylated in FP vs FN
cg01128482	0.386	0.734	-0.348	3e-05	HOXD3	Hypomethylated in FP vs FN
cg15213650	0.347	0.600	-0.252	3e-05	NA	Hypomethylated in FP vs FN
cg25848076	0.230	0.596	-0.365	3e-05	NA	Hypomethylated in FP vs FN
cg04550439	0.428	0.720	-0.292	3e-05	NA	Hypomethylated in FP vs FN
cg17833169	0.186	0.523	-0.337	3e-05	NA	Hypomethylated in FP vs FN
cg21429745	0.097	0.433	-0.336	3e-05	NA	Hypomethylated in FP vs FN
cg14185656	0.497	0.756	-0.259	3e-05	NA	Hypomethylated in FP vs FN
cg03477792	0.180	0.530	-0.350	3e-05	ANKRD56	Hypomethylated in FP vs FN
cg26441910	0.432	0.780	-0.348	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18475775	0.545	0.801	-0.256	3e-05	NA	Hypomethylated in FP vs FN
cg13571460	0.431	0.718	-0.287	3e-05	NA	Hypomethylated in FP vs FN
cg01719987	0.441	0.707	-0.265	3e-05	NCRNA00175	Hypomethylated in FP vs FN
cg16257029	0.265	0.540	-0.275	3e-05	ADAM12	Hypomethylated in FP vs FN
cg08284564	0.464	0.738	-0.274	3e-05	BCAR1	Hypomethylated in FP vs FN
cg07813254	0.334	0.639	-0.305	3e-05	FAM43B	Hypomethylated in FP vs FN
cg05768427	0.164	0.603	-0.439	3e-05	NA	Hypomethylated in FP vs FN
cg12457909	0.111	0.418	-0.308	3e-05	NA	Hypomethylated in FP vs FN
cg25076459	0.175	0.498	-0.323	3e-05	NA	Hypomethylated in FP vs FN
cg14594966	0.438	0.736	-0.298	3e-05	NA	Hypomethylated in FP vs FN
cg09957942	0.351	0.631	-0.280	3e-05	NA	Hypomethylated in FP vs FN
cg04426802	0.454	0.823	-0.369	3e-05	NA	Hypomethylated in FP vs FN
cg27632318	0.512	0.777	-0.265	3e-05	NA	Hypomethylated in FP vs FN
cg13628577	0.178	0.523	-0.345	3e-05	NA	Hypomethylated in FP vs FN
cg26925025	0.408	0.670	-0.261	3e-05	CA1	Hypomethylated in FP vs FN
cg05138133	0.447	0.740	-0.293	3e-05	NA	Hypomethylated in FP vs FN
cg25637473	0.518	0.849	-0.331	3e-05	NA	Hypomethylated in FP vs FN
cg12942414	0.164	0.507	-0.342	3e-05	NA	Hypomethylated in FP vs FN
cg08960549	0.494	0.792	-0.298	3e-05	NA	Hypomethylated in FP vs FN
cg07478392	0.255	0.634	-0.379	3e-05	NA	Hypomethylated in FP vs FN
cg16479539	0.117	0.509	-0.392	3e-05	NA	Hypomethylated in FP vs FN
cg10961186	0.202	0.625	-0.422	3e-05	NA	Hypomethylated in FP vs FN
cg22699361	0.346	0.634	-0.288	3e-05	FLJ39609	Hypomethylated in FP vs FN
cg01213645	0.342	0.683	-0.340	3e-05	NA	Hypomethylated in FP vs FN
cg04085076	0.223	0.547	-0.323	3e-05	HOPX	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00355678	0.462	0.809	-0.347	3e-05	NA	Hypomethylated in FP vs FN
cg08256939	0.212	0.478	-0.266	3e-05	NA	Hypomethylated in FP vs FN
cg10452531	0.197	0.596	-0.399	3e-05	LTBR	Hypomethylated in FP vs FN
cg11762968	0.364	0.656	-0.292	3e-05	NA	Hypomethylated in FP vs FN
cg08522676	0.289	0.640	-0.351	3e-05	NA	Hypomethylated in FP vs FN
cg19049152	0.222	0.556	-0.334	3e-05	THSD1P	Hypomethylated in FP vs FN
cg27291258	0.513	0.766	-0.252	3e-05	NA	Hypomethylated in FP vs FN
cg05192402	0.226	0.509	-0.283	3e-05	NA	Hypomethylated in FP vs FN
cg26794883	0.396	0.650	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg04231590	0.528	0.796	-0.268	3e-05	NA	Hypomethylated in FP vs FN
cg13723983	0.336	0.626	-0.290	3e-05	C9orf50	Hypomethylated in FP vs FN
cg14626525	0.463	0.752	-0.288	3e-05	MIR602	Hypomethylated in FP vs FN
cg27260772	0.322	0.717	-0.395	3e-05	NA	Hypomethylated in FP vs FN
cg09287629	0.254	0.582	-0.328	3e-05	NA	Hypomethylated in FP vs FN
cg13708974	0.471	0.784	-0.312	3e-05	NA	Hypomethylated in FP vs FN
cg08518631	0.152	0.452	-0.300	3e-05	NA	Hypomethylated in FP vs FN
cg00664581	0.332	0.586	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg20067272	0.388	0.752	-0.364	3e-05	NA	Hypomethylated in FP vs FN
cg22396280	0.480	0.734	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg00268019	0.185	0.544	-0.359	3e-05	LY75	Hypomethylated in FP vs FN
cg14153919	0.549	0.809	-0.259	3e-05	CRABP1	Hypomethylated in FP vs FN
cg02254898	0.436	0.715	-0.278	3e-05	NA	Hypomethylated in FP vs FN
cg24694501	0.261	0.597	-0.337	3e-05	NA	Hypomethylated in FP vs FN
cg00400832	0.197	0.578	-0.380	3e-05	NA	Hypomethylated in FP vs FN
cg09504322	0.314	0.635	-0.321	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03473518	0.243	0.584	-0.341	3e-05	GJB6	Hypomethylated in FP vs FN
cg20223206	0.459	0.718	-0.259	3e-05	NA	Hypomethylated in FP vs FN
cg23658684	0.352	0.664	-0.312	3e-05	NA	Hypomethylated in FP vs FN
cg02731366	0.409	0.680	-0.270	3e-05	ZBTB7C	Hypomethylated in FP vs FN
cg13354414	0.312	0.630	-0.318	3e-05	MGC26647	Hypomethylated in FP vs FN
cg19656633	0.340	0.623	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg04255276	0.335	0.639	-0.304	3e-05	NA	Hypomethylated in FP vs FN
cg24610044	0.521	0.806	-0.285	3e-05	NA	Hypomethylated in FP vs FN
cg19571015	0.329	0.667	-0.338	3e-05	NA	Hypomethylated in FP vs FN
cg12974637	0.156	0.537	-0.382	3e-05	CCDC68	Hypomethylated in FP vs FN
cg16763443	0.330	0.675	-0.345	3e-05	NA	Hypomethylated in FP vs FN
cg16674492	0.185	0.576	-0.391	3e-05	NA	Hypomethylated in FP vs FN
cg19343566	0.192	0.492	-0.299	3e-05	NA	Hypomethylated in FP vs FN
cg17037611	0.351	0.634	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg15266705	0.080	0.447	-0.367	3e-05	NA	Hypomethylated in FP vs FN
cg07910075	0.498	0.753	-0.255	3e-05	NA	Hypomethylated in FP vs FN
cg24424381	0.084	0.463	-0.380	3e-05	WDR93_PEX11A	Hypomethylated in FP vs FN
cg18192919	0.181	0.530	-0.349	3e-05	TMEM26	Hypomethylated in FP vs FN
cg24995657	0.171	0.534	-0.363	3e-05	PLEK2	Hypomethylated in FP vs FN
cg08583570	0.391	0.669	-0.278	3e-05	NA	Hypomethylated in FP vs FN
cg18081687	0.560	0.833	-0.272	3e-05	NA	Hypomethylated in FP vs FN
cg03940064	0.123	0.496	-0.373	3e-05	SPATA18	Hypomethylated in FP vs FN
cg17944891	0.336	0.604	-0.268	3e-05	MYH3	Hypomethylated in FP vs FN
cg23066057	0.475	0.804	-0.330	3e-05	NA	Hypomethylated in FP vs FN
cg26120787	0.327	0.663	-0.336	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05211768	0.186	0.542	-0.357	3e-05	FES	Hypomethylated in FP vs FN
cg14602471	0.097	0.394	-0.297	3e-05	NA	Hypomethylated in FP vs FN
cg05569109	0.133	0.562	-0.429	3e-05	GALNT3	Hypomethylated in FP vs FN
cg20654082	0.468	0.724	-0.256	3e-05	NA	Hypomethylated in FP vs FN
cg08450554	0.321	0.607	-0.286	3e-05	NA	Hypomethylated in FP vs FN
cg13784276	0.432	0.775	-0.343	3e-05	NA	Hypomethylated in FP vs FN
cg08496737	0.345	0.603	-0.258	3e-05	NXF1	Hypomethylated in FP vs FN
cg27254040	0.392	0.726	-0.334	3e-05	NA	Hypomethylated in FP vs FN
cg04669815	0.128	0.518	-0.391	3e-05	NA	Hypomethylated in FP vs FN
cg02823066	0.254	0.515	-0.260	3e-05	NA	Hypomethylated in FP vs FN
cg09287864	0.384	0.671	-0.286	3e-05	NA	Hypomethylated in FP vs FN
cg08203794	0.433	0.710	-0.277	3e-05	NA	Hypomethylated in FP vs FN
cg09257824	0.220	0.625	-0.405	3e-05	NA	Hypomethylated in FP vs FN
cg27642416	0.269	0.592	-0.323	3e-05	NA	Hypomethylated in FP vs FN
cg08785274	0.200	0.578	-0.379	3e-05	KLHDC9	Hypomethylated in FP vs FN
cg08116915	0.303	0.599	-0.296	3e-05	NA	Hypomethylated in FP vs FN
cg11617144	0.554	0.861	-0.307	3e-05	GPT	Hypomethylated in FP vs FN
cg01381109	0.102	0.378	-0.276	3e-05	NA	Hypomethylated in FP vs FN
cg10180297	0.227	0.536	-0.309	3e-05	NA	Hypomethylated in FP vs FN
cg00564163	0.413	0.725	-0.312	3e-05	NA	Hypomethylated in FP vs FN
cg03037039	0.264	0.554	-0.290	3e-05	NA	Hypomethylated in FP vs FN
cg18690282	0.470	0.741	-0.270	3e-05	NA	Hypomethylated in FP vs FN
cg26467269	0.349	0.614	-0.265	3e-05	NA	Hypomethylated in FP vs FN
cg10912515	0.470	0.748	-0.277	3e-05	NA	Hypomethylated in FP vs FN
cg16094412	0.133	0.595	-0.461	3e-05	RNF207	Hypomethylated in FP vs FN



**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08648568	0.111	0.454	-0.343	3e-05	NA	Hypomethylated in FP vs FN
cg09171093	0.551	0.804	-0.253	3e-05	NA	Hypomethylated in FP vs FN
cg27197651	0.356	0.716	-0.360	3e-05	NA	Hypomethylated in FP vs FN
cg26653360	0.076	0.473	-0.396	3e-05	WDR93_PEX11A	Hypomethylated in FP vs FN
cg16643261	0.613	0.865	-0.252	3e-05	TCEB3B	Hypomethylated in FP vs FN
cg18771659	0.510	0.793	-0.284	3e-05	SPRR1B	Hypomethylated in FP vs FN
cg25938806	0.289	0.643	-0.354	3e-05	HOXD3	Hypomethylated in FP vs FN
cg10044470	0.362	0.637	-0.275	3e-05	NA	Hypomethylated in FP vs FN
cg12428416	0.536	0.793	-0.256	3e-05	NA	Hypomethylated in FP vs FN
cg24751129	0.477	0.746	-0.269	3e-05	NA	Hypomethylated in FP vs FN
cg23133255	0.439	0.692	-0.253	3e-05	NECAB1	Hypomethylated in FP vs FN
cg18351683	0.244	0.522	-0.278	3e-05	NA	Hypomethylated in FP vs FN
cg01534391	0.532	0.791	-0.259	3e-05	NA	Hypomethylated in FP vs FN
cg15416363	0.485	0.740	-0.255	3e-05	SPEM1	Hypomethylated in FP vs FN
cg08286181	0.474	0.752	-0.278	3e-05	NA	Hypomethylated in FP vs FN
cg24384057	0.438	0.693	-0.255	3e-05	NA	Hypomethylated in FP vs FN
cg26995083	0.241	0.560	-0.319	3e-05	TJAP1	Hypomethylated in FP vs FN
cg25188238	0.493	0.768	-0.275	3e-05	NA	Hypomethylated in FP vs FN
cg25913520	0.096	0.429	-0.333	3e-05	NA	Hypomethylated in FP vs FN
cg20849025	0.297	0.582	-0.285	3e-05	MPEG1	Hypomethylated in FP vs FN
cg21460625	0.345	0.608	-0.263	3e-05	NA	Hypomethylated in FP vs FN
cg26808747	0.188	0.498	-0.310	3e-05	ADAM12	Hypomethylated in FP vs FN
cg02524954	0.143	0.478	-0.335	3e-05	NA	Hypomethylated in FP vs FN
cg15833353	0.290	0.607	-0.317	3e-05	NA	Hypomethylated in FP vs FN
cg13585675	0.421	0.700	-0.279	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21449150	0.137	0.526	-0.389	3e-05	SPATA18	Hypomethylated in FP vs FN
cg12913587	0.415	0.743	-0.328	3e-05	NA	Hypomethylated in FP vs FN
cg26833652	0.528	0.811	-0.284	3e-05	NA	Hypomethylated in FP vs FN
cg10789300	0.262	0.536	-0.274	3e-05	NA	Hypomethylated in FP vs FN
cg02699218	0.274	0.641	-0.366	3e-05	ANKRD43	Hypomethylated in FP vs FN
cg16319578	0.294	0.705	-0.411	3e-05	HSPA2	Hypomethylated in FP vs FN
cg22208304	0.490	0.797	-0.307	3e-05	NA	Hypomethylated in FP vs FN
cg23864949	0.404	0.667	-0.263	3e-05	NA	Hypomethylated in FP vs FN
cg06226630	0.322	0.671	-0.348	3e-05	NA	Hypomethylated in FP vs FN
cg19193384	0.391	0.673	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg17285335	0.361	0.656	-0.294	3e-05	SLC5A12	Hypomethylated in FP vs FN
cg16287679	0.356	0.648	-0.292	3e-05	NA	Hypomethylated in FP vs FN
cg11006453	0.177	0.454	-0.277	3e-05	NA	Hypomethylated in FP vs FN
cg06602847	0.103	0.481	-0.378	3e-05	DBC1	Hypomethylated in FP vs FN
cg24918798	0.435	0.690	-0.255	3e-05	NA	Hypomethylated in FP vs FN
cg00533202	0.331	0.620	-0.289	3e-05	NA	Hypomethylated in FP vs FN
cg09753193	0.508	0.768	-0.261	3e-05	NA	Hypomethylated in FP vs FN
cg15857470	0.359	0.656	-0.298	3e-05	NA	Hypomethylated in FP vs FN
cg08639279	0.476	0.787	-0.311	3e-05	NA	Hypomethylated in FP vs FN
cg04706655	0.194	0.558	-0.363	3e-05	NA	Hypomethylated in FP vs FN
cg08812108	0.455	0.744	-0.289	3e-05	NA	Hypomethylated in FP vs FN
cg27474149	0.353	0.660	-0.307	3e-05	NA	Hypomethylated in FP vs FN
cg04006323	0.114	0.392	-0.278	3e-05	NA	Hypomethylated in FP vs FN
cg24932585	0.374	0.631	-0.258	3e-05	NA	Hypomethylated in FP vs FN
cg20003638	0.566	0.831	-0.265	3e-05	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15205441	0.282	0.631	-0.349	3e-05	NA	Hypomethylated in FP vs FN
cg08626831	0.549	0.804	-0.255	3e-05	NA	Hypomethylated in FP vs FN
cg08578703	0.453	0.753	-0.300	3e-05	NA	Hypomethylated in FP vs FN
cg25078137	0.232	0.533	-0.301	3e-05	NA	Hypomethylated in FP vs FN
cg08250135	0.569	0.823	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg04292442	0.410	0.682	-0.272	3e-05	NA	Hypomethylated in FP vs FN
cg17101450	0.337	0.743	-0.407	3e-05	NA	Hypomethylated in FP vs FN
cg09601175	0.319	0.662	-0.343	3e-05	NA	Hypomethylated in FP vs FN
cg11409060	0.200	0.460	-0.259	3e-05	ATF7IP	Hypomethylated in FP vs FN
cg08324862	0.389	0.682	-0.293	3e-05	NA	Hypomethylated in FP vs FN
cg27300957	0.274	0.573	-0.299	3e-05	NA	Hypomethylated in FP vs FN
cg02168442	0.433	0.769	-0.337	3e-05	NA	Hypomethylated in FP vs FN
cg12050271	0.230	0.638	-0.408	3e-05	NA	Hypomethylated in FP vs FN
cg06234741	0.356	0.637	-0.281	3e-05	NA	Hypomethylated in FP vs FN
cg01555614	0.244	0.632	-0.388	3e-05	TFAP2B	Hypomethylated in FP vs FN
cg00495811	0.322	0.603	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg20582976	0.505	0.758	-0.253	3e-05	NA	Hypomethylated in FP vs FN
cg08168580	0.200	0.516	-0.316	3e-05	NA	Hypomethylated in FP vs FN
cg01034654	0.449	0.707	-0.259	3e-05	NA	Hypomethylated in FP vs FN
cg13210595	0.430	0.687	-0.257	3e-05	NA	Hypomethylated in FP vs FN
cg26620021	0.412	0.668	-0.257	3e-05	MIR641	Hypomethylated in FP vs FN
cg03746851	0.455	0.707	-0.251	3e-05	NA	Hypomethylated in FP vs FN
cg13705391	0.370	0.684	-0.314	3e-05	NA	Hypomethylated in FP vs FN
cg16397176	0.347	0.649	-0.302	3e-05	NA	Hypomethylated in FP vs FN
cg25339566	0.195	0.590	-0.395	3e-05	TCTEX1D1	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08398132	0.420	0.729	-0.308	3e-05	NA	Hypomethylated in FP vs FN
cg26809635	0.324	0.751	-0.427	3e-05	NA	Hypomethylated in FP vs FN
cg14790739	0.612	0.892	-0.280	3e-05	NA	Hypomethylated in FP vs FN
cg25683575	0.324	0.646	-0.323	3e-05	NA	Hypomethylated in FP vs FN
cg21699044	0.361	0.709	-0.348	3e-05	NA	Hypomethylated in FP vs FN
cg18786782	0.316	0.605	-0.289	3e-05	NA	Hypomethylated in FP vs FN
cg17701417	0.285	0.648	-0.363	3e-05	NA	Hypomethylated in FP vs FN
cg12794567	0.327	0.643	-0.316	3e-05	NA	Hypomethylated in FP vs FN
cg13840520	0.355	0.691	-0.336	3e-05	NA	Hypomethylated in FP vs FN
cg06153883	0.439	0.696	-0.257	3e-05	NA	Hypomethylated in FP vs FN
cg27554973	0.363	0.710	-0.347	3e-05	NA	Hypomethylated in FP vs FN
cg11476211	0.077	0.425	-0.348	3e-05	PRKCE	Hypomethylated in FP vs FN
cg09164580	0.251	0.604	-0.353	3e-05	NA	Hypomethylated in FP vs FN
cg19774627	0.333	0.613	-0.280	3e-05	NA	Hypomethylated in FP vs FN
cg11697474	0.370	0.624	-0.254	3e-05	NA	Hypomethylated in FP vs FN
cg26950369	0.484	0.735	-0.250	3e-05	NA	Hypomethylated in FP vs FN
cg12499872	0.343	0.638	-0.295	3e-05	NA	Hypomethylated in FP vs FN
cg21203902	0.458	0.733	-0.276	3e-05	NA	Hypomethylated in FP vs FN
cg24712354	0.383	0.661	-0.279	3e-05	NA	Hypomethylated in FP vs FN
cg09842331	0.205	0.520	-0.314	3e-05	NA	Hypomethylated in FP vs FN
cg07177852	0.245	0.585	-0.341	3e-05	CCDC68	Hypomethylated in FP vs FN
cg19709608	0.342	0.623	-0.282	3e-05	NA	Hypomethylated in FP vs FN
cg08801795	0.320	0.686	-0.367	3e-05	NA	Hypomethylated in FP vs FN
cg15478401	0.304	0.621	-0.317	3e-05	NA	Hypomethylated in FP vs FN
cg14663965	0.409	0.708	-0.298	3e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11663667	0.335	0.662	-0.327	3e-05	NA	Hypomethylated in FP vs FN
cg00834400	0.089	0.421	-0.332	3e-05	NA	Hypomethylated in FP vs FN
cg16290866	0.254	0.597	-0.343	3e-05	NA	Hypomethylated in FP vs FN
cg18217706	0.391	0.655	-0.264	3e-05	NA	Hypomethylated in FP vs FN
cg06681396	0.260	0.679	-0.419	3e-05	NA	Hypomethylated in FP vs FN
cg04272086	0.200	0.469	-0.268	3e-05	NA	Hypomethylated in FP vs FN
cg12435415	0.168	0.541	-0.373	4e-05	NA	Hypomethylated in FP vs FN
cg00358936	0.426	0.715	-0.289	4e-05	KISS1	Hypomethylated in FP vs FN
cg21236177	0.290	0.561	-0.271	4e-05	NA	Hypomethylated in FP vs FN
cg16574155	0.363	0.640	-0.277	4e-05	C1orf172	Hypomethylated in FP vs FN
cg17741986	0.280	0.551	-0.271	4e-05	ZNF454	Hypomethylated in FP vs FN
cg02470871	0.216	0.501	-0.285	4e-05	CD80	Hypomethylated in FP vs FN
cg02601249	0.410	0.693	-0.283	4e-05	NA	Hypomethylated in FP vs FN
cg03190379	0.295	0.622	-0.327	4e-05	NA	Hypomethylated in FP vs FN
cg13922451	0.142	0.439	-0.297	4e-05	NA	Hypomethylated in FP vs FN
cg25542041	0.165	0.549	-0.385	4e-05	NA	Hypomethylated in FP vs FN
cg05605603	0.517	0.770	-0.253	4e-05	NA	Hypomethylated in FP vs FN
cg20139247	0.128	0.436	-0.308	4e-05	NA	Hypomethylated in FP vs FN
cg26188685	0.421	0.681	-0.260	4e-05	NA	Hypomethylated in FP vs FN
cg17621190	0.449	0.710	-0.261	4e-05	NA	Hypomethylated in FP vs FN
cg00827210	0.307	0.597	-0.290	4e-05	NA	Hypomethylated in FP vs FN
cg12243622	0.385	0.716	-0.332	4e-05	NA	Hypomethylated in FP vs FN
cg16332159	0.239	0.498	-0.259	4e-05	APOB48R	Hypomethylated in FP vs FN
cg07548668	0.546	0.803	-0.257	4e-05	NA	Hypomethylated in FP vs FN
cg13499318	0.412	0.721	-0.309	4e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04987335	0.295	0.568	-0.274	4e-05	NA	Hypomethylated in FP vs FN
cg07454154	0.353	0.681	-0.328	4e-05	NA	Hypomethylated in FP vs FN
cg13210580	0.306	0.612	-0.306	4e-05	NA	Hypomethylated in FP vs FN
cg01857748	0.389	0.724	-0.335	4e-05	NA	Hypomethylated in FP vs FN
cg10896862	0.252	0.610	-0.358	4e-05	NA	Hypomethylated in FP vs FN
cg13453157	0.369	0.696	-0.327	4e-05	NA	Hypomethylated in FP vs FN
cg00100440	0.427	0.738	-0.312	4e-05	NA	Hypomethylated in FP vs FN
cg06804411	0.427	0.714	-0.287	4e-05	LELP1	Hypomethylated in FP vs FN
cg07818422	0.387	0.717	-0.330	4e-05	NA	Hypomethylated in FP vs FN
cg03089940	0.429	0.700	-0.271	4e-05	NA	Hypomethylated in FP vs FN
cg09178190	0.274	0.605	-0.331	4e-05	PCDHB6	Hypomethylated in FP vs FN
cg24375215	0.350	0.661	-0.311	4e-05	CD300A	Hypomethylated in FP vs FN
cg00433861	0.337	0.622	-0.284	4e-05	NA	Hypomethylated in FP vs FN
cg15848364	0.388	0.667	-0.278	4e-05	NA	Hypomethylated in FP vs FN
cg09335647	0.315	0.580	-0.266	4e-05	NA	Hypomethylated in FP vs FN
cg18252903	0.296	0.665	-0.370	4e-05	NA	Hypomethylated in FP vs FN
cg18750960	0.524	0.802	-0.278	4e-05	HOXD4	Hypomethylated in FP vs FN
cg04361019	0.421	0.732	-0.311	4e-05	NA	Hypomethylated in FP vs FN
cg22923154	0.525	0.783	-0.258	4e-05	NA	Hypomethylated in FP vs FN
cg10680621	0.246	0.549	-0.303	4e-05	NA	Hypomethylated in FP vs FN
cg07690882	0.412	0.765	-0.352	4e-05	NA	Hypomethylated in FP vs FN
cg16608443	0.227	0.506	-0.278	4e-05	NA	Hypomethylated in FP vs FN
cg11702085	0.334	0.666	-0.333	4e-05	NA	Hypomethylated in FP vs FN
cg24642320	0.062	0.391	-0.329	4e-05	NA	Hypomethylated in FP vs FN
cg16464506	0.441	0.719	-0.278	4e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25343204	0.565	0.820	-0.255	4e-05	NA	Hypomethylated in FP vs FN
cg13998145	0.586	0.843	-0.257	4e-05	NA	Hypomethylated in FP vs FN
cg19747744	0.495	0.776	-0.280	4e-05	NA	Hypomethylated in FP vs FN
cg25818605	0.366	0.665	-0.300	4e-05	NA	Hypomethylated in FP vs FN
cg03417342	0.074	0.456	-0.382	4e-05	PEX11A_WDR93	Hypomethylated in FP vs FN
cg24801123	0.159	0.442	-0.283	4e-05	NA	Hypomethylated in FP vs FN
cg01197302	0.395	0.727	-0.332	4e-05	NA	Hypomethylated in FP vs FN
cg07271996	0.308	0.589	-0.282	4e-05	NA	Hypomethylated in FP vs FN
cg16168014	0.327	0.669	-0.342	4e-05	NA	Hypomethylated in FP vs FN
cg03372905	0.579	0.830	-0.251	4e-05	NA	Hypomethylated in FP vs FN
cg17462107	0.398	0.735	-0.337	4e-05	NA	Hypomethylated in FP vs FN
cg05893709	0.267	0.635	-0.368	4e-05	NA	Hypomethylated in FP vs FN
cg22396409	0.251	0.535	-0.284	4e-05	EGFR	Hypomethylated in FP vs FN
cg06924241	0.278	0.565	-0.287	4e-05	NA	Hypomethylated in FP vs FN
cg15207826	0.265	0.581	-0.315	4e-05	NA	Hypomethylated in FP vs FN
cg00679731	0.236	0.525	-0.289	4e-05	NA	Hypomethylated in FP vs FN
cg13681940	0.246	0.539	-0.294	4e-05	NA	Hypomethylated in FP vs FN
cg26796518	0.318	0.683	-0.366	4e-05	NA	Hypomethylated in FP vs FN
cg02350677	0.134	0.489	-0.356	4e-05	NA	Hypomethylated in FP vs FN
cg22275864	0.476	0.793	-0.318	4e-05	NA	Hypomethylated in FP vs FN
cg07695089	0.437	0.716	-0.279	4e-05	NA	Hypomethylated in FP vs FN
cg02147126	0.386	0.643	-0.257	4e-05	AZU1	Hypomethylated in FP vs FN
cg20697984	0.139	0.488	-0.349	4e-05	NHLRC1	Hypomethylated in FP vs FN
cg14181940	0.342	0.645	-0.303	4e-05	NA	Hypomethylated in FP vs FN
cg21609584	0.464	0.739	-0.275	4e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02032558	0.299	0.637	-0.338	4e-05	NA	Hypomethylated in FP vs FN
cg06067842	0.209	0.538	-0.329	4e-05	TMEM26	Hypomethylated in FP vs FN
cg09839235	0.469	0.849	-0.381	4e-05	NA	Hypomethylated in FP vs FN
cg09660365	0.120	0.389	-0.269	4e-05	NA	Hypomethylated in FP vs FN
cg03483626	0.362	0.661	-0.299	4e-05	KCNA3	Hypomethylated in FP vs FN
cg21435684	0.187	0.596	-0.409	4e-05	NA	Hypomethylated in FP vs FN
cg20092728	0.498	0.789	-0.291	4e-05	SLC5A12	Hypomethylated in FP vs FN
cg23480730	0.338	0.706	-0.368	4e-05	NA	Hypomethylated in FP vs FN
cg12103152	0.210	0.564	-0.354	4e-05	HTR1B	Hypomethylated in FP vs FN
cg19958593	0.530	0.828	-0.299	4e-05	NA	Hypomethylated in FP vs FN
cg20090301	0.326	0.591	-0.265	4e-05	NA	Hypomethylated in FP vs FN
cg05046306	0.302	0.610	-0.308	4e-05	NA	Hypomethylated in FP vs FN
cg18739089	0.332	0.597	-0.265	4e-05	NA	Hypomethylated in FP vs FN
cg14716990	0.365	0.717	-0.352	4e-05	NA	Hypomethylated in FP vs FN
cg02563530	0.390	0.648	-0.257	4e-05	NA	Hypomethylated in FP vs FN
cg12422539	0.444	0.755	-0.312	4e-05	NA	Hypomethylated in FP vs FN
cg05285582	0.218	0.600	-0.381	4e-05	NA	Hypomethylated in FP vs FN
cg15460739	0.515	0.781	-0.266	4e-05	NA	Hypomethylated in FP vs FN
cg07061582	0.103	0.399	-0.297	4e-05	PEX11A_WDR93	Hypomethylated in FP vs FN
cg25714154	0.503	0.794	-0.291	4e-05	NA	Hypomethylated in FP vs FN
cg12558090	0.374	0.634	-0.260	4e-05	NA	Hypomethylated in FP vs FN
cg11067552	0.337	0.623	-0.285	4e-05	NA	Hypomethylated in FP vs FN
cg10752406	0.216	0.516	-0.300	4e-05	AZU1	Hypomethylated in FP vs FN
cg08549390	0.481	0.784	-0.303	4e-05	NA	Hypomethylated in FP vs FN
cg05373723	0.182	0.503	-0.321	4e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17878151	0.425	0.677	-0.253	4e-05	NA	Hypomethylated in FP vs FN
cg25309775	0.540	0.794	-0.254	4e-05	ZNF283	Hypomethylated in FP vs FN
cg12866960	0.587	0.867	-0.280	4e-05	NA	Hypomethylated in FP vs FN
cg12770539	0.338	0.630	-0.292	4e-05	NA	Hypomethylated in FP vs FN
cg03350993	0.278	0.601	-0.323	4e-05	TSPAN16	Hypomethylated in FP vs FN
cg06940505	0.360	0.678	-0.318	4e-05	NA	Hypomethylated in FP vs FN
cg11176990	0.141	0.439	-0.298	4e-05	LOC375196	Hypomethylated in FP vs FN
cg02379079	0.273	0.535	-0.262	4e-05	LBP	Hypomethylated in FP vs FN
cg25294504	0.490	0.767	-0.278	4e-05	NA	Hypomethylated in FP vs FN
cg11638320	0.339	0.638	-0.299	4e-05	NA	Hypomethylated in FP vs FN
cg01506492	0.128	0.534	-0.406	4e-05	NA	Hypomethylated in FP vs FN
cg26186331	0.345	0.627	-0.281	4e-05	NA	Hypomethylated in FP vs FN
cg12060499	0.380	0.750	-0.369	4e-05	NA	Hypomethylated in FP vs FN
cg25182501	0.456	0.717	-0.261	4e-05	NA	Hypomethylated in FP vs FN
cg12368612	0.267	0.613	-0.346	4e-05	NA	Hypomethylated in FP vs FN
cg03249630	0.502	0.767	-0.264	4e-05	ANKRD22	Hypomethylated in FP vs FN
cg08285915	0.207	0.460	-0.252	4e-05	NEUROG1	Hypomethylated in FP vs FN
cg03742250	0.342	0.594	-0.252	4e-05	NA	Hypomethylated in FP vs FN
cg26837773	0.506	0.789	-0.283	4e-05	NA	Hypomethylated in FP vs FN
cg09043104	0.327	0.618	-0.291	4e-05	NA	Hypomethylated in FP vs FN
cg26358374	0.385	0.640	-0.254	4e-05	NA	Hypomethylated in FP vs FN
cg05858889	0.184	0.485	-0.301	4e-05	NA	Hypomethylated in FP vs FN
cg05816786	0.306	0.610	-0.304	4e-05	NA	Hypomethylated in FP vs FN
cg25266629	0.344	0.710	-0.366	4e-05	NA	Hypomethylated in FP vs FN
cg18121003	0.368	0.728	-0.360	4e-05	CCDC81	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12504247	0.456	0.723	-0.267	4e-05	NA	Hypomethylated in FP vs FN
cg18338822	0.550	0.802	-0.251	4e-05	NA	Hypomethylated in FP vs FN
cg14350312	0.270	0.569	-0.299	4e-05	NA	Hypomethylated in FP vs FN
cg21160290	0.254	0.542	-0.288	4e-05	NA	Hypomethylated in FP vs FN
cg23242898	0.153	0.420	-0.268	4e-05	NA	Hypomethylated in FP vs FN
cg20253468	0.119	0.488	-0.369	4e-05	NA	Hypomethylated in FP vs FN
cg25354466	0.283	0.616	-0.332	4e-05	NA	Hypomethylated in FP vs FN
cg09324001	0.413	0.732	-0.318	4e-05	NA	Hypomethylated in FP vs FN
cg02632261	0.459	0.711	-0.252	4e-05	NA	Hypomethylated in FP vs FN
cg25456368	0.341	0.676	-0.335	4e-05	NA	Hypomethylated in FP vs FN
cg23075139	0.325	0.653	-0.328	4e-05	NA	Hypomethylated in FP vs FN
cg02969500	0.498	0.793	-0.296	4e-05	NA	Hypomethylated in FP vs FN
cg23565942	0.134	0.507	-0.372	4e-05	NEBL	Hypomethylated in FP vs FN
cg25503695	0.279	0.624	-0.345	4e-05	NA	Hypomethylated in FP vs FN
cg11792766	0.421	0.671	-0.251	4e-05	NA	Hypomethylated in FP vs FN
cg12026992	0.320	0.634	-0.314	4e-05	NA	Hypomethylated in FP vs FN
cg10953317	0.196	0.463	-0.267	4e-05	CD300A	Hypomethylated in FP vs FN
cg19500098	0.139	0.397	-0.258	4e-05	NA	Hypomethylated in FP vs FN
cg25623174	0.561	0.895	-0.334	4e-05	NA	Hypomethylated in FP vs FN
cg00996827	0.297	0.619	-0.322	4e-05	NA	Hypomethylated in FP vs FN
cg04872848	0.238	0.553	-0.315	4e-05	FLVCR2	Hypomethylated in FP vs FN
cg27179474	0.443	0.706	-0.263	4e-05	NA	Hypomethylated in FP vs FN
cg23548455	0.386	0.697	-0.311	4e-05	NA	Hypomethylated in FP vs FN
cg00929871	0.531	0.805	-0.274	4e-05	NA	Hypomethylated in FP vs FN
cg22302929	0.431	0.692	-0.261	4e-05	SCAND3	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19260567	0.284	0.535	-0.251	4e-05	NA	Hypomethylated in FP vs FN
cg21446955	0.246	0.499	-0.253	4e-05	ARHGAP24	Hypomethylated in FP vs FN
cg10024484	0.326	0.680	-0.354	4e-05	NA	Hypomethylated in FP vs FN
cg24512138	0.187	0.450	-0.263	4e-05	NA	Hypomethylated in FP vs FN
cg11977686	0.072	0.414	-0.342	4e-05	ZNF671	Hypomethylated in FP vs FN
cg02552250	0.178	0.460	-0.282	4e-05	NA	Hypomethylated in FP vs FN
cg11121623	0.344	0.617	-0.273	4e-05	NA	Hypomethylated in FP vs FN
cg08423857	0.199	0.488	-0.289	4e-05	NA	Hypomethylated in FP vs FN
cg11827629	0.504	0.784	-0.279	4e-05	NA	Hypomethylated in FP vs FN
cg04932056	0.265	0.597	-0.332	4e-05	SPAG9	Hypomethylated in FP vs FN
cg02838492	0.323	0.664	-0.341	4e-05	KIF12	Hypomethylated in FP vs FN
cg12269138	0.387	0.685	-0.298	4e-05	NA	Hypomethylated in FP vs FN
cg25506747	0.312	0.590	-0.278	4e-05	NA	Hypomethylated in FP vs FN
cg23532322	0.355	0.618	-0.263	4e-05	NA	Hypomethylated in FP vs FN
cg00893471	0.202	0.512	-0.309	4e-05	NA	Hypomethylated in FP vs FN
cg18229820	0.446	0.732	-0.286	4e-05	NA	Hypomethylated in FP vs FN
cg03337430	0.488	0.745	-0.257	4e-05	EPHX1	Hypomethylated in FP vs FN
cg01827633	0.396	0.695	-0.299	4e-05	NA	Hypomethylated in FP vs FN
cg18145026	0.332	0.634	-0.301	4e-05	NA	Hypomethylated in FP vs FN
cg22016995	0.364	0.715	-0.350	4e-05	NA	Hypomethylated in FP vs FN
cg09253679	0.438	0.698	-0.260	4e-05	NA	Hypomethylated in FP vs FN
cg27541454	0.153	0.494	-0.341	4e-05	NA	Hypomethylated in FP vs FN
cg13019868	0.538	0.790	-0.252	4e-05	NA	Hypomethylated in FP vs FN
cg11824639	0.165	0.496	-0.331	4e-05	TCTEX1D1	Hypomethylated in FP vs FN
cg18797653	0.445	0.715	-0.270	4e-05	MIR886	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16049690	0.157	0.491	-0.334	4e-05	NA	Hypomethylated in FP vs FN
cg02744046	0.278	0.579	-0.301	4e-05	NA	Hypomethylated in FP vs FN
cg10147797	0.116	0.423	-0.306	4e-05	SDR42E1	Hypomethylated in FP vs FN
cg05207834	0.350	0.726	-0.376	4e-05	SPAG9	Hypomethylated in FP vs FN
cg26808144	0.582	0.838	-0.256	4e-05	NTM	Hypomethylated in FP vs FN
cg00672633	0.509	0.762	-0.253	4e-05	NA	Hypomethylated in FP vs FN
cg10859358	0.436	0.739	-0.303	4e-05	TTN	Hypomethylated in FP vs FN
cg20495179	0.473	0.769	-0.296	4e-05	NA	Hypomethylated in FP vs FN
cg01081096	0.334	0.591	-0.257	4e-05	ATG9B	Hypomethylated in FP vs FN
cg13407262	0.534	0.812	-0.278	4e-05	NA	Hypomethylated in FP vs FN
cg25909885	0.423	0.710	-0.287	4e-05	NAV2	Hypomethylated in FP vs FN
cg15415136	0.164	0.495	-0.330	5e-05	ZNF540	Hypomethylated in FP vs FN
cg11414913	0.255	0.585	-0.331	5e-05	NA	Hypomethylated in FP vs FN
cg17223866	0.352	0.605	-0.253	5e-05	NA	Hypomethylated in FP vs FN
cg08832624	0.287	0.694	-0.408	5e-05	NA	Hypomethylated in FP vs FN
cg01804233	0.495	0.767	-0.272	5e-05	NA	Hypomethylated in FP vs FN
cg17272563	0.444	0.703	-0.259	5e-05	NA	Hypomethylated in FP vs FN
cg02668999	0.358	0.696	-0.337	5e-05	NA	Hypomethylated in FP vs FN
cg01588826	0.348	0.665	-0.317	5e-05	NA	Hypomethylated in FP vs FN
cg00924017	0.379	0.696	-0.318	5e-05	NA	Hypomethylated in FP vs FN
cg22613854	0.384	0.670	-0.286	5e-05	NA	Hypomethylated in FP vs FN
cg14442405	0.331	0.618	-0.286	5e-05	NA	Hypomethylated in FP vs FN
cg16137498	0.433	0.714	-0.281	5e-05	NA	Hypomethylated in FP vs FN
cg16592121	0.189	0.478	-0.289	5e-05	NA	Hypomethylated in FP vs FN
cg03740666	0.335	0.605	-0.270	5e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22714290	0.453	0.804	-0.351	5e-05	NA	Hypomethylated in FP vs FN
cg22959611	0.148	0.471	-0.323	5e-05	NHLRC1	Hypomethylated in FP vs FN
cg16681436	0.297	0.556	-0.259	5e-05	NA	Hypomethylated in FP vs FN
cg01889143	0.276	0.692	-0.417	5e-05	NA	Hypomethylated in FP vs FN
cg25451958	0.199	0.615	-0.416	5e-05	NA	Hypomethylated in FP vs FN
cg02968407	0.513	0.814	-0.301	5e-05	NA	Hypomethylated in FP vs FN
cg09176275	0.126	0.388	-0.262	5e-05	C1orf87	Hypomethylated in FP vs FN
cg08958294	0.119	0.490	-0.371	5e-05	NA	Hypomethylated in FP vs FN
cg16296829	0.305	0.556	-0.251	5e-05	KCNN3	Hypomethylated in FP vs FN
cg01115389	0.257	0.540	-0.283	5e-05	NA	Hypomethylated in FP vs FN
cg11920765	0.584	0.842	-0.259	5e-05	NA	Hypomethylated in FP vs FN
cg07388347	0.198	0.530	-0.331	5e-05	NA	Hypomethylated in FP vs FN
cg05418508	0.388	0.727	-0.338	5e-05	NA	Hypomethylated in FP vs FN
cg15480919	0.368	0.623	-0.255	5e-05	DPCR1	Hypomethylated in FP vs FN
cg00019495	0.201	0.477	-0.277	5e-05	HOPX	Hypomethylated in FP vs FN
cg01184271	0.330	0.608	-0.279	5e-05	C2CD4B	Hypomethylated in FP vs FN
cg17678139	0.408	0.716	-0.308	5e-05	NA	Hypomethylated in FP vs FN
cg02503874	0.186	0.466	-0.280	5e-05	FERD3L	Hypomethylated in FP vs FN
cg07264025	0.438	0.770	-0.332	5e-05	NA	Hypomethylated in FP vs FN
cg02069243	0.431	0.721	-0.290	5e-05	NA	Hypomethylated in FP vs FN
cg24963147	0.294	0.598	-0.304	5e-05	LOC389332	Hypomethylated in FP vs FN
cg00866690	0.556	0.810	-0.255	5e-05	NA	Hypomethylated in FP vs FN
cg16658618	0.515	0.777	-0.262	5e-05	NA	Hypomethylated in FP vs FN
cg25543773	0.450	0.715	-0.265	5e-05	NA	Hypomethylated in FP vs FN
cg18703227	0.482	0.755	-0.272	5e-05	LEMD2	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18250838	0.262	0.610	-0.348	5e-05	CRABP1	Hypomethylated in FP vs FN
cg23424273	0.086	0.478	-0.393	5e-05	HTR1B	Hypomethylated in FP vs FN
cg27518238	0.485	0.754	-0.269	5e-05	NA	Hypomethylated in FP vs FN
cg00955096	0.160	0.532	-0.372	5e-05	TPD52L1	Hypomethylated in FP vs FN
cg05204532	0.373	0.673	-0.301	5e-05	NA	Hypomethylated in FP vs FN
cg03037974	0.384	0.668	-0.283	5e-05	NA	Hypomethylated in FP vs FN
cg08031151	0.286	0.628	-0.342	5e-05	NA	Hypomethylated in FP vs FN
cg01607530	0.316	0.614	-0.299	5e-05	NA	Hypomethylated in FP vs FN
cg18755226	0.451	0.723	-0.272	5e-05	NA	Hypomethylated in FP vs FN
cg22231400	0.325	0.687	-0.362	5e-05	NA	Hypomethylated in FP vs FN
cg26548574	0.320	0.655	-0.335	5e-05	NA	Hypomethylated in FP vs FN
cg23170410	0.383	0.682	-0.299	5e-05	NA	Hypomethylated in FP vs FN
cg15626881	0.498	0.773	-0.276	5e-05	NA	Hypomethylated in FP vs FN
cg24733450	0.240	0.565	-0.325	5e-05	NA	Hypomethylated in FP vs FN
cg08488841	0.232	0.650	-0.418	5e-05	NA	Hypomethylated in FP vs FN
cg13733615	0.349	0.680	-0.332	5e-05	NA	Hypomethylated in FP vs FN
cg08250187	0.378	0.662	-0.284	5e-05	NA	Hypomethylated in FP vs FN
cg09145629	0.514	0.765	-0.251	5e-05	NA	Hypomethylated in FP vs FN
cg12914615	0.447	0.781	-0.334	5e-05	NA	Hypomethylated in FP vs FN
cg08918020	0.303	0.594	-0.291	5e-05	COX4I2	Hypomethylated in FP vs FN
cg08660562	0.361	0.665	-0.304	5e-05	NA	Hypomethylated in FP vs FN
cg02094827	0.380	0.630	-0.250	5e-05	ZFYVE27	Hypomethylated in FP vs FN
cg21826699	0.324	0.652	-0.328	5e-05	NA	Hypomethylated in FP vs FN
cg07185131	0.172	0.558	-0.386	5e-05	NA	Hypomethylated in FP vs FN
cg05573844	0.565	0.828	-0.263	5e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04810745	0.370	0.727	-0.357	5e-05	NA	Hypomethylated in FP vs FN
cg01048962	0.245	0.661	-0.416	5e-05	NA	Hypomethylated in FP vs FN
cg20933297	0.371	0.705	-0.333	5e-05	NA	Hypomethylated in FP vs FN
cg00999950	0.102	0.427	-0.325	5e-05	C4orf37	Hypomethylated in FP vs FN
cg05272349	0.251	0.566	-0.314	5e-05	NA	Hypomethylated in FP vs FN
cg21342910	0.114	0.454	-0.340	5e-05	NA	Hypomethylated in FP vs FN
cg20080492	0.253	0.520	-0.267	5e-05	NA	Hypomethylated in FP vs FN
cg04434896	0.186	0.471	-0.286	5e-05	NA	Hypomethylated in FP vs FN
cg22158769	0.129	0.480	-0.351	5e-05	LOC375196	Hypomethylated in FP vs FN
cg18885392	0.302	0.585	-0.283	5e-05	NA	Hypomethylated in FP vs FN
cg11966063	0.311	0.610	-0.299	5e-05	NA	Hypomethylated in FP vs FN
cg14479798	0.476	0.769	-0.293	5e-05	NA	Hypomethylated in FP vs FN
cg22561203	0.322	0.596	-0.274	5e-05	NA	Hypomethylated in FP vs FN
cg21777188	0.475	0.762	-0.288	5e-05	NA	Hypomethylated in FP vs FN
cg02071243	0.270	0.627	-0.357	5e-05	NA	Hypomethylated in FP vs FN
cg07064592	0.406	0.725	-0.319	5e-05	NA	Hypomethylated in FP vs FN
cg02737219	0.463	0.725	-0.262	5e-05	NA	Hypomethylated in FP vs FN
cg17876200	0.145	0.489	-0.344	5e-05	KLHDC9	Hypomethylated in FP vs FN
cg08995089	0.106	0.393	-0.287	5e-05	PTEN_KILLIN	Hypomethylated in FP vs FN
cg14291650	0.286	0.598	-0.312	5e-05	NA	Hypomethylated in FP vs FN
cg06547849	0.078	0.374	-0.296	5e-05	NA	Hypomethylated in FP vs FN
cg13010373	0.439	0.706	-0.266	5e-05	NA	Hypomethylated in FP vs FN
cg13390388	0.355	0.682	-0.327	5e-05	NA	Hypomethylated in FP vs FN
cg16182447	0.374	0.678	-0.304	5e-05	NA	Hypomethylated in FP vs FN
cg18265665	0.557	0.814	-0.257	5e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16530177	0.265	0.625	-0.360	5e-05	NA	Hypomethylated in FP vs FN
cg27553926	0.220	0.563	-0.342	5e-05	NA	Hypomethylated in FP vs FN
cg24091995	0.340	0.754	-0.414	5e-05	NA	Hypomethylated in FP vs FN
cg16091920	0.427	0.683	-0.256	5e-05	NA	Hypomethylated in FP vs FN
cg20461188	0.195	0.536	-0.341	5e-05	NA	Hypomethylated in FP vs FN
cg06264743	0.322	0.649	-0.327	5e-05	NA	Hypomethylated in FP vs FN
cg11781986	0.212	0.501	-0.289	5e-05	NA	Hypomethylated in FP vs FN
cg21531908	0.375	0.662	-0.287	5e-05	NA	Hypomethylated in FP vs FN
cg13784235	0.280	0.613	-0.332	5e-05	NA	Hypomethylated in FP vs FN
cg07962315	0.220	0.479	-0.258	5e-05	C9orf95	Hypomethylated in FP vs FN
cg17634490	0.066	0.401	-0.335	5e-05	PEX11A_WDR93	Hypomethylated in FP vs FN
cg08415998	0.378	0.629	-0.250	5e-05	NA	Hypomethylated in FP vs FN
cg16168509	0.330	0.612	-0.282	5e-05	NA	Hypomethylated in FP vs FN
cg24613558	0.527	0.804	-0.277	5e-05	NA	Hypomethylated in FP vs FN
cg25121621	0.220	0.509	-0.289	5e-05	SQRDL	Hypomethylated in FP vs FN
cg02111951	0.303	0.581	-0.278	5e-05	NA	Hypomethylated in FP vs FN
cg01165683	0.477	0.728	-0.251	5e-05	NA	Hypomethylated in FP vs FN
cg06765022	0.255	0.518	-0.263	5e-05	NA	Hypomethylated in FP vs FN
cg23330281	0.352	0.606	-0.254	5e-05	NAV2	Hypomethylated in FP vs FN
cg17431391	0.266	0.546	-0.280	5e-05	ZNF540	Hypomethylated in FP vs FN
cg18239431	0.486	0.737	-0.251	5e-05	NA	Hypomethylated in FP vs FN
cg25856811	0.243	0.575	-0.332	5e-05	SPRR3	Hypomethylated in FP vs FN
cg15127250	0.275	0.586	-0.311	5e-05	GALNT6	Hypomethylated in FP vs FN
cg21356630	0.487	0.760	-0.273	5e-05	NA	Hypomethylated in FP vs FN
cg23149852	0.440	0.726	-0.286	5e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01888395	0.421	0.687	-0.266	5e-05	NA	Hypomethylated in FP vs FN
cg20613432	0.258	0.560	-0.302	5e-05	NA	Hypomethylated in FP vs FN
cg23517999	0.365	0.640	-0.275	5e-05	NA	Hypomethylated in FP vs FN
cg05864326	0.244	0.653	-0.410	5e-05	NA	Hypomethylated in FP vs FN
cg04695513	0.374	0.689	-0.315	5e-05	NA	Hypomethylated in FP vs FN
cg08260052	0.367	0.665	-0.298	5e-05	NA	Hypomethylated in FP vs FN
cg26304689	0.305	0.565	-0.261	5e-05	NA	Hypomethylated in FP vs FN
cg05138148	0.430	0.745	-0.315	5e-05	NA	Hypomethylated in FP vs FN
cg10946333	0.450	0.730	-0.280	5e-05	P2RY14	Hypomethylated in FP vs FN
cg02806715	0.302	0.556	-0.254	5e-05	NA	Hypomethylated in FP vs FN
cg16137928	0.240	0.525	-0.285	5e-05	NA	Hypomethylated in FP vs FN
cg01567173	0.246	0.614	-0.368	5e-05	NA	Hypomethylated in FP vs FN
cg04797061	0.390	0.689	-0.300	5e-05	NA	Hypomethylated in FP vs FN
cg02436004	0.234	0.546	-0.312	5e-05	NA	Hypomethylated in FP vs FN
cg20051292	0.222	0.594	-0.371	5e-05	RGS22	Hypomethylated in FP vs FN
cg17745211	0.138	0.431	-0.293	5e-05	NA	Hypomethylated in FP vs FN
cg19871235	0.295	0.580	-0.286	5e-05	TSPAN8	Hypomethylated in FP vs FN
cg09765014	0.471	0.761	-0.290	5e-05	NA	Hypomethylated in FP vs FN
cg15440868	0.340	0.629	-0.288	5e-05	NA	Hypomethylated in FP vs FN
cg15594306	0.263	0.538	-0.275	5e-05	MOXD1	Hypomethylated in FP vs FN
cg17071045	0.265	0.592	-0.328	5e-05	NA	Hypomethylated in FP vs FN
cg01798157	0.324	0.630	-0.307	5e-05	NA	Hypomethylated in FP vs FN
cg04709736	0.519	0.782	-0.263	5e-05	PLVAP	Hypomethylated in FP vs FN
cg16196175	0.194	0.532	-0.339	5e-05	NA	Hypomethylated in FP vs FN
cg04157161	0.323	0.683	-0.360	5e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19509778	0.212	0.552	-0.340	5e-05	NA	Hypomethylated in FP vs FN
cg15142694	0.478	0.776	-0.298	5e-05	NA	Hypomethylated in FP vs FN
cg25615184	0.220	0.506	-0.286	5e-05	NA	Hypomethylated in FP vs FN
cg16827459	0.114	0.494	-0.381	5e-05	NA	Hypomethylated in FP vs FN
cg04201527	0.311	0.638	-0.327	5e-05	NA	Hypomethylated in FP vs FN
cg03677952	0.303	0.583	-0.280	5e-05	MLC1	Hypomethylated in FP vs FN
cg04255879	0.147	0.416	-0.269	5e-05	NA	Hypomethylated in FP vs FN
cg14898127	0.370	0.664	-0.294	5e-05	IL16	Hypomethylated in FP vs FN
cg18517540	0.466	0.761	-0.295	5e-05	NA	Hypomethylated in FP vs FN
cg08930112	0.499	0.758	-0.259	5e-05	NA	Hypomethylated in FP vs FN
cg04394267	0.203	0.475	-0.271	5e-05	NA	Hypomethylated in FP vs FN
cg14805996	0.213	0.600	-0.387	5e-05	NA	Hypomethylated in FP vs FN
cg25388861	0.409	0.678	-0.269	5e-05	NA	Hypomethylated in FP vs FN
cg02026062	0.121	0.450	-0.328	5e-05	NA	Hypomethylated in FP vs FN
cg09272923	0.408	0.700	-0.292	5e-05	NA	Hypomethylated in FP vs FN
cg02060465	0.240	0.547	-0.307	5e-05	SPRR4	Hypomethylated in FP vs FN
cg25691442	0.359	0.631	-0.272	5e-05	NA	Hypomethylated in FP vs FN
cg08989214	0.445	0.740	-0.295	5e-05	NA	Hypomethylated in FP vs FN
cg03592903	0.382	0.637	-0.255	5e-05	NA	Hypomethylated in FP vs FN
cg27131955	0.259	0.546	-0.287	5e-05	NA	Hypomethylated in FP vs FN
cg15295441	0.513	0.780	-0.266	5e-05	NA	Hypomethylated in FP vs FN
cg25307468	0.289	0.540	-0.251	5e-05	NA	Hypomethylated in FP vs FN
cg15302350	0.316	0.597	-0.281	5e-05	NA	Hypomethylated in FP vs FN
cg18533201	0.125	0.470	-0.346	5e-05	NA	Hypomethylated in FP vs FN
cg03169508	0.325	0.661	-0.336	5e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25363564	0.469	0.779	-0.310	5e-05	NA	Hypomethylated in FP vs FN
cg11586570	0.344	0.663	-0.320	6e-05	NA	Hypomethylated in FP vs FN
cg09829263	0.268	0.532	-0.265	6e-05	NA	Hypomethylated in FP vs FN
cg17743939	0.451	0.763	-0.312	6e-05	NA	Hypomethylated in FP vs FN
cg24624901	0.276	0.594	-0.319	6e-05	NA	Hypomethylated in FP vs FN
cg05893353	0.393	0.675	-0.282	6e-05	NA	Hypomethylated in FP vs FN
cg09120320	0.220	0.545	-0.325	6e-05	NA	Hypomethylated in FP vs FN
cg17544672	0.472	0.785	-0.313	6e-05	NA	Hypomethylated in FP vs FN
cg22892437	0.252	0.592	-0.340	6e-05	HPSE2	Hypomethylated in FP vs FN
cg11150807	0.321	0.599	-0.278	6e-05	NA	Hypomethylated in FP vs FN
cg24647015	0.419	0.688	-0.269	6e-05	NA	Hypomethylated in FP vs FN
cg18186771	0.373	0.700	-0.326	6e-05	NA	Hypomethylated in FP vs FN
cg24284497	0.173	0.429	-0.256	6e-05	NA	Hypomethylated in FP vs FN
cg12582654	0.233	0.523	-0.290	6e-05	KCP	Hypomethylated in FP vs FN
cg01249544	0.543	0.795	-0.252	6e-05	NA	Hypomethylated in FP vs FN
cg01256165	0.280	0.568	-0.288	6e-05	C20orf201	Hypomethylated in FP vs FN
cg23548623	0.105	0.373	-0.267	6e-05	NA	Hypomethylated in FP vs FN
cg26856578	0.339	0.615	-0.276	6e-05	NA	Hypomethylated in FP vs FN
cg06809295	0.379	0.647	-0.267	6e-05	KCNQ1OT1	Hypomethylated in FP vs FN
cg06891458	0.313	0.636	-0.323	6e-05	MGA	Hypomethylated in FP vs FN
cg06789686	0.385	0.650	-0.265	6e-05	NA	Hypomethylated in FP vs FN
cg13638420	0.273	0.672	-0.399	6e-05	NA	Hypomethylated in FP vs FN
cg00071241	0.440	0.788	-0.348	6e-05	NA	Hypomethylated in FP vs FN
cg13515584	0.231	0.504	-0.273	6e-05	NA	Hypomethylated in FP vs FN
cg04557057	0.329	0.688	-0.359	6e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00508158	0.513	0.794	-0.281	6e-05	NA	Hypomethylated in FP vs FN
cg20737382	0.491	0.800	-0.309	6e-05	NA	Hypomethylated in FP vs FN
cg18355311	0.536	0.797	-0.261	6e-05	NA	Hypomethylated in FP vs FN
cg10403171	0.393	0.681	-0.288	6e-05	NA	Hypomethylated in FP vs FN
cg09890339	0.456	0.741	-0.286	6e-05	NA	Hypomethylated in FP vs FN
cg21101743	0.214	0.551	-0.337	6e-05	NA	Hypomethylated in FP vs FN
cg21205855	0.286	0.591	-0.305	6e-05	NA	Hypomethylated in FP vs FN
cg06972911	0.444	0.723	-0.278	6e-05	FAM59A	Hypomethylated in FP vs FN
cg06126421	0.229	0.512	-0.283	6e-05	NA	Hypomethylated in FP vs FN
cg21779088	0.476	0.750	-0.274	6e-05	NA	Hypomethylated in FP vs FN
cg14199150	0.358	0.655	-0.297	6e-05	NA	Hypomethylated in FP vs FN
cg06842071	0.384	0.710	-0.326	6e-05	NA	Hypomethylated in FP vs FN
cg24137774	0.233	0.567	-0.334	6e-05	NAV2	Hypomethylated in FP vs FN
cg18937395	0.143	0.479	-0.336	6e-05	SLITRK1	Hypomethylated in FP vs FN
cg22448292	0.081	0.410	-0.329	6e-05	PEX11A_WDR93	Hypomethylated in FP vs FN
cg19159365	0.382	0.708	-0.327	6e-05	NA	Hypomethylated in FP vs FN
cg14410395	0.138	0.471	-0.333	6e-05	NA	Hypomethylated in FP vs FN
cg11468255	0.444	0.697	-0.253	6e-05	NA	Hypomethylated in FP vs FN
cg25104637	0.295	0.554	-0.259	6e-05	NA	Hypomethylated in FP vs FN
cg00793181	0.410	0.672	-0.262	6e-05	KRT72	Hypomethylated in FP vs FN
cg04370442	0.261	0.593	-0.332	6e-05	NA	Hypomethylated in FP vs FN
cg05477514	0.186	0.484	-0.298	6e-05	NKX2-6	Hypomethylated in FP vs FN
cg09234936	0.224	0.575	-0.351	6e-05	NA	Hypomethylated in FP vs FN
cg00743269	0.388	0.673	-0.285	6e-05	NA	Hypomethylated in FP vs FN
cg01937780	0.294	0.660	-0.366	6e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18351406	0.392	0.675	-0.282	6e-05	ANKRD56	Hypomethylated in FP vs FN
cg27514336	0.327	0.588	-0.261	6e-05	NA	Hypomethylated in FP vs FN
cg02133070	0.408	0.704	-0.296	6e-05	NA	Hypomethylated in FP vs FN
cg04109822	0.191	0.448	-0.257	6e-05	NA	Hypomethylated in FP vs FN
cg03074026	0.301	0.643	-0.341	6e-05	NA	Hypomethylated in FP vs FN
cg17474422	0.417	0.702	-0.285	6e-05	NA	Hypomethylated in FP vs FN
cg11113216	0.458	0.770	-0.312	6e-05	NA	Hypomethylated in FP vs FN
cg05955210	0.411	0.702	-0.291	6e-05	NA	Hypomethylated in FP vs FN
cg06846669	0.093	0.355	-0.262	6e-05	NA	Hypomethylated in FP vs FN
cg16777618	0.368	0.685	-0.317	6e-05	NA	Hypomethylated in FP vs FN
cg14248598	0.461	0.725	-0.264	6e-05	NA	Hypomethylated in FP vs FN
cg06652210	0.291	0.559	-0.268	6e-05	OVCA2	Hypomethylated in FP vs FN
cg26455386	0.358	0.629	-0.270	6e-05	NA	Hypomethylated in FP vs FN
cg11449039	0.398	0.686	-0.288	6e-05	NA	Hypomethylated in FP vs FN
cg03998173	0.186	0.590	-0.404	6e-05	RHEB	Hypomethylated in FP vs FN
cg07788369	0.320	0.615	-0.296	6e-05	NA	Hypomethylated in FP vs FN
cg12284789	0.366	0.711	-0.345	6e-05	NA	Hypomethylated in FP vs FN
cg00966099	0.165	0.527	-0.362	6e-05	NA	Hypomethylated in FP vs FN
cg07653395	0.412	0.699	-0.286	6e-05	NA	Hypomethylated in FP vs FN
cg00338702	0.205	0.525	-0.320	6e-05	NA	Hypomethylated in FP vs FN
cg01212326	0.405	0.693	-0.287	6e-05	POU2AF1	Hypomethylated in FP vs FN
cg22583148	0.385	0.714	-0.329	6e-05	NA	Hypomethylated in FP vs FN
cg11931762	0.256	0.540	-0.285	6e-05	NA	Hypomethylated in FP vs FN
cg12994591	0.358	0.647	-0.289	6e-05	NA	Hypomethylated in FP vs FN
cg27067158	0.445	0.723	-0.278	6e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23547892	0.294	0.549	-0.255	6e-05	NA	Hypomethylated in FP vs FN
cg02551745	0.469	0.730	-0.261	6e-05	NA	Hypomethylated in FP vs FN
cg13187539	0.356	0.642	-0.287	6e-05	TRPM1	Hypomethylated in FP vs FN
cg17546649	0.196	0.474	-0.277	6e-05	KIF15	Hypomethylated in FP vs FN
cg16879574	0.250	0.581	-0.330	6e-05	NHLRC1	Hypomethylated in FP vs FN
cg02441618	0.237	0.517	-0.279	6e-05	NA	Hypomethylated in FP vs FN
cg10832108	0.234	0.553	-0.319	6e-05	NEUROG1	Hypomethylated in FP vs FN
cg12477370	0.200	0.506	-0.306	6e-05	NA	Hypomethylated in FP vs FN
cg11231958	0.342	0.626	-0.283	6e-05	NA	Hypomethylated in FP vs FN
cg15820062	0.136	0.485	-0.350	6e-05	NA	Hypomethylated in FP vs FN
cg07053162	0.369	0.651	-0.282	6e-05	NA	Hypomethylated in FP vs FN
cg20038187	0.383	0.692	-0.309	6e-05	NA	Hypomethylated in FP vs FN
cg01152897	0.356	0.643	-0.287	6e-05	NA	Hypomethylated in FP vs FN
cg11946503	0.194	0.525	-0.331	6e-05	NEUROG1	Hypomethylated in FP vs FN
cg25389463	0.314	0.569	-0.255	6e-05	RBM34	Hypomethylated in FP vs FN
cg24990400	0.359	0.651	-0.292	6e-05	NA	Hypomethylated in FP vs FN
cg13850606	0.203	0.594	-0.391	6e-05	NA	Hypomethylated in FP vs FN
cg25950625	0.175	0.504	-0.330	6e-05	NA	Hypomethylated in FP vs FN
cg07135042	0.224	0.496	-0.272	6e-05	ZNF582	Hypomethylated in FP vs FN
cg22667178	0.097	0.457	-0.360	6e-05	SERP2	Hypomethylated in FP vs FN
cg12804677	0.346	0.653	-0.307	6e-05	NA	Hypomethylated in FP vs FN
cg18147048	0.343	0.678	-0.336	6e-05	TIMM13	Hypomethylated in FP vs FN
cg26055488	0.370	0.627	-0.257	6e-05	NA	Hypomethylated in FP vs FN
cg00029246	0.406	0.715	-0.309	6e-05	NA	Hypomethylated in FP vs FN
cg11417701	0.341	0.639	-0.298	6e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08633249	0.333	0.603	-0.270	6e-05	NA	Hypomethylated in FP vs FN
cg20047489	0.539	0.793	-0.254	6e-05	NA	Hypomethylated in FP vs FN
cg11566131	0.436	0.711	-0.275	6e-05	NA	Hypomethylated in FP vs FN
cg03890691	0.168	0.544	-0.376	6e-05	DOC2A	Hypomethylated in FP vs FN
cg10241675	0.391	0.644	-0.254	6e-05	NA	Hypomethylated in FP vs FN
cg12494515	0.356	0.610	-0.254	6e-05	NA	Hypomethylated in FP vs FN
cg00713400	0.340	0.726	-0.386	6e-05	NA	Hypomethylated in FP vs FN
cg00305874	0.339	0.602	-0.263	6e-05	NA	Hypomethylated in FP vs FN
cg09318375	0.152	0.471	-0.319	6e-05	TCTEX1D1	Hypomethylated in FP vs FN
cg01809895	0.266	0.587	-0.320	6e-05	NA	Hypomethylated in FP vs FN
cg00360414	0.237	0.558	-0.321	6e-05	TMEM26	Hypomethylated in FP vs FN
cg05767720	0.508	0.796	-0.288	6e-05	NA	Hypomethylated in FP vs FN
cg26549601	0.470	0.724	-0.254	6e-05	NA	Hypomethylated in FP vs FN
cg12634591	0.365	0.706	-0.341	6e-05	HOXD3	Hypomethylated in FP vs FN
cg13445249	0.379	0.665	-0.285	6e-05	NA	Hypomethylated in FP vs FN
cg13644317	0.220	0.596	-0.377	6e-05	NA	Hypomethylated in FP vs FN
cg17065850	0.440	0.724	-0.284	6e-05	NA	Hypomethylated in FP vs FN
cg01357233	0.455	0.729	-0.274	6e-05	LRRC18	Hypomethylated in FP vs FN
cg26400830	0.106	0.467	-0.362	6e-05	NA	Hypomethylated in FP vs FN
cg10862399	0.298	0.561	-0.263	6e-05	NA	Hypomethylated in FP vs FN
cg19848629	0.290	0.604	-0.314	6e-05	NA	Hypomethylated in FP vs FN
cg18362330	0.390	0.646	-0.256	6e-05	NEUROG1	Hypomethylated in FP vs FN
cg12717203	0.128	0.477	-0.349	6e-05	NA	Hypomethylated in FP vs FN
cg01808739	0.254	0.551	-0.297	6e-05	FNBP1L	Hypomethylated in FP vs FN
cg04206257	0.347	0.604	-0.256	6e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17789138	0.220	0.519	-0.299	6e-05	NA	Hypomethylated in FP vs FN
cg23950157	0.227	0.492	-0.265	6e-05	NA	Hypomethylated in FP vs FN
cg00172803	0.448	0.738	-0.290	6e-05	SLC38A8	Hypomethylated in FP vs FN
cg13678428	0.470	0.743	-0.273	6e-05	NA	Hypomethylated in FP vs FN
cg15939287	0.286	0.622	-0.336	6e-05	NA	Hypomethylated in FP vs FN
cg09128567	0.315	0.746	-0.432	6e-05	NA	Hypomethylated in FP vs FN
cg17017591	0.382	0.687	-0.304	6e-05	NA	Hypomethylated in FP vs FN
cg04820362	0.327	0.582	-0.255	6e-05	LRRC43	Hypomethylated in FP vs FN
cg22241124	0.442	0.715	-0.273	6e-05	NA	Hypomethylated in FP vs FN
cg22439922	0.320	0.587	-0.267	7e-05	NA	Hypomethylated in FP vs FN
cg21428681	0.229	0.517	-0.288	7e-05	NKX3-1	Hypomethylated in FP vs FN
cg01565438	0.375	0.657	-0.283	7e-05	SLFN13	Hypomethylated in FP vs FN
cg23338195	0.333	0.631	-0.298	7e-05	SLC30A8	Hypomethylated in FP vs FN
cg08590257	0.474	0.765	-0.291	7e-05	NA	Hypomethylated in FP vs FN
cg23109721	0.170	0.502	-0.332	7e-05	NA	Hypomethylated in FP vs FN
cg00772000	0.193	0.526	-0.333	7e-05	NHLRC1	Hypomethylated in FP vs FN
cg16774479	0.396	0.690	-0.294	7e-05	NA	Hypomethylated in FP vs FN
cg01092108	0.274	0.526	-0.252	7e-05	NA	Hypomethylated in FP vs FN
cg04267526	0.171	0.455	-0.285	7e-05	NA	Hypomethylated in FP vs FN
cg24780883	0.401	0.697	-0.297	7e-05	NA	Hypomethylated in FP vs FN
cg15433297	0.204	0.477	-0.274	7e-05	PKHD1L1	Hypomethylated in FP vs FN
cg03562044	0.276	0.709	-0.433	7e-05	NA	Hypomethylated in FP vs FN
cg07124687	0.486	0.812	-0.326	7e-05	NA	Hypomethylated in FP vs FN
cg02870147	0.539	0.806	-0.268	7e-05	NA	Hypomethylated in FP vs FN
cg14325153	0.552	0.809	-0.256	7e-05	PRR23C	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13614409	0.150	0.534	-0.384	7e-05	C13orf26	Hypomethylated in FP vs FN
cg01146063	0.266	0.590	-0.323	7e-05	NA	Hypomethylated in FP vs FN
cg00831126	0.296	0.608	-0.312	7e-05	NA	Hypomethylated in FP vs FN
cg02495823	0.157	0.523	-0.367	7e-05	NA	Hypomethylated in FP vs FN
cg03065175	0.285	0.622	-0.337	7e-05	NA	Hypomethylated in FP vs FN
cg08416650	0.089	0.427	-0.338	7e-05	LPCAT2	Hypomethylated in FP vs FN
cg04430835	0.107	0.452	-0.345	7e-05	SPATA18	Hypomethylated in FP vs FN
cg09173348	0.350	0.634	-0.284	7e-05	ARL5C	Hypomethylated in FP vs FN
cg22900415	0.193	0.558	-0.364	7e-05	GJA3	Hypomethylated in FP vs FN
cg04312620	0.318	0.647	-0.330	7e-05	SALL4	Hypomethylated in FP vs FN
cg26352652	0.356	0.637	-0.281	7e-05	NA	Hypomethylated in FP vs FN
cg13839439	0.388	0.649	-0.261	7e-05	NA	Hypomethylated in FP vs FN
cg05756029	0.522	0.781	-0.260	7e-05	LOC494141	Hypomethylated in FP vs FN
cg14621053	0.071	0.337	-0.266	7e-05	ADAM12	Hypomethylated in FP vs FN
cg09077443	0.406	0.693	-0.286	7e-05	NA	Hypomethylated in FP vs FN
cg01715450	0.398	0.654	-0.257	7e-05	NA	Hypomethylated in FP vs FN
cg15082473	0.445	0.712	-0.268	7e-05	NA	Hypomethylated in FP vs FN
cg19578835	0.114	0.521	-0.407	7e-05	NA	Hypomethylated in FP vs FN
cg10904109	0.256	0.561	-0.306	7e-05	NA	Hypomethylated in FP vs FN
cg13685314	0.249	0.510	-0.261	7e-05	DBC1	Hypomethylated in FP vs FN
cg24602417	0.423	0.732	-0.308	7e-05	NA	Hypomethylated in FP vs FN
cg20863282	0.422	0.682	-0.260	7e-05	NA	Hypomethylated in FP vs FN
cg09257677	0.257	0.558	-0.301	7e-05	NA	Hypomethylated in FP vs FN
cg11107212	0.334	0.660	-0.325	7e-05	NA	Hypomethylated in FP vs FN
cg00616243	0.100	0.409	-0.309	7e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00402417	0.226	0.505	-0.278	7e-05	NA	Hypomethylated in FP vs FN
cg06530338	0.372	0.752	-0.380	7e-05	NA	Hypomethylated in FP vs FN
cg21469772	0.375	0.658	-0.283	7e-05	NA	Hypomethylated in FP vs FN
cg06412777	0.342	0.649	-0.306	7e-05	NA	Hypomethylated in FP vs FN
cg01967055	0.145	0.397	-0.252	7e-05	HRASLS5	Hypomethylated in FP vs FN
cg24828648	0.296	0.621	-0.325	7e-05	NA	Hypomethylated in FP vs FN
cg02470267	0.433	0.709	-0.276	7e-05	NA	Hypomethylated in FP vs FN
cg27084026	0.115	0.386	-0.272	7e-05	CHFR	Hypomethylated in FP vs FN
cg25370412	0.412	0.725	-0.313	7e-05	NA	Hypomethylated in FP vs FN
cg07762347	0.396	0.651	-0.255	7e-05	NA	Hypomethylated in FP vs FN
cg20117447	0.513	0.793	-0.280	7e-05	NA	Hypomethylated in FP vs FN
cg19471040	0.369	0.636	-0.267	7e-05	NA	Hypomethylated in FP vs FN
cg14038391	0.267	0.685	-0.418	7e-05	NA	Hypomethylated in FP vs FN
cg07525782	0.309	0.626	-0.318	7e-05	NA	Hypomethylated in FP vs FN
cg17116120	0.285	0.612	-0.327	7e-05	COX4I2	Hypomethylated in FP vs FN
cg00947796	0.373	0.650	-0.277	7e-05	NA	Hypomethylated in FP vs FN
cg06310131	0.236	0.562	-0.325	7e-05	NA	Hypomethylated in FP vs FN
cg09793988	0.092	0.455	-0.363	7e-05	LPCAT2	Hypomethylated in FP vs FN
cg22130008	0.230	0.497	-0.267	7e-05	NA	Hypomethylated in FP vs FN
cg06161630	0.530	0.816	-0.286	7e-05	EPHA1	Hypomethylated in FP vs FN
cg01537445	0.398	0.695	-0.296	7e-05	NA	Hypomethylated in FP vs FN
cg24145020	0.390	0.694	-0.304	7e-05	INSL5	Hypomethylated in FP vs FN
cg08772837	0.331	0.588	-0.257	7e-05	PCDHAC2	Hypomethylated in FP vs FN
cg20640862	0.379	0.676	-0.297	7e-05	NA	Hypomethylated in FP vs FN
cg06857289	0.215	0.546	-0.331	7e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01538605	0.369	0.656	-0.286	7e-05	NA	Hypomethylated in FP vs FN
cg00426976	0.411	0.676	-0.265	7e-05	NA	Hypomethylated in FP vs FN
cg12822074	0.090	0.465	-0.375	7e-05	NA	Hypomethylated in FP vs FN
cg23044178	0.558	0.823	-0.264	7e-05	NA	Hypomethylated in FP vs FN
cg15900979	0.192	0.459	-0.266	7e-05	RAB19	Hypomethylated in FP vs FN
cg08003887	0.368	0.663	-0.295	7e-05	NA	Hypomethylated in FP vs FN
cg12439439	0.109	0.458	-0.350	7e-05	NA	Hypomethylated in FP vs FN
cg20643991	0.311	0.588	-0.277	7e-05	NA	Hypomethylated in FP vs FN
cg14709292	0.261	0.596	-0.335	7e-05	NA	Hypomethylated in FP vs FN
cg18560638	0.512	0.785	-0.273	7e-05	MIR623	Hypomethylated in FP vs FN
cg12201625	0.508	0.776	-0.269	7e-05	NA	Hypomethylated in FP vs FN
cg06708237	0.471	0.761	-0.289	7e-05	NA	Hypomethylated in FP vs FN
cg21588562	0.589	0.864	-0.275	7e-05	FTMT	Hypomethylated in FP vs FN
cg21997986	0.384	0.654	-0.270	7e-05	NA	Hypomethylated in FP vs FN
cg08957484	0.300	0.616	-0.315	7e-05	CCNI2	Hypomethylated in FP vs FN
cg07737644	0.370	0.657	-0.288	7e-05	NA	Hypomethylated in FP vs FN
cg17249452	0.370	0.695	-0.325	7e-05	NA	Hypomethylated in FP vs FN
cg16650901	0.236	0.592	-0.356	7e-05	NA	Hypomethylated in FP vs FN
cg03342215	0.523	0.793	-0.270	7e-05	NA	Hypomethylated in FP vs FN
cg10932874	0.343	0.604	-0.261	7e-05	AGAP2	Hypomethylated in FP vs FN
cg05590982	0.308	0.562	-0.253	7e-05	NUPR1	Hypomethylated in FP vs FN
cg16562275	0.233	0.591	-0.358	7e-05	NA	Hypomethylated in FP vs FN
cg08364970	0.404	0.732	-0.327	7e-05	NA	Hypomethylated in FP vs FN
cg18388552	0.104	0.408	-0.305	7e-05	NA	Hypomethylated in FP vs FN
cg08845685	0.493	0.775	-0.282	7e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23415373	0.567	0.827	-0.260	7e-05	NA	Hypomethylated in FP vs FN
cg14312965	0.475	0.729	-0.254	8e-05	ACTL7B	Hypomethylated in FP vs FN
cg19305681	0.204	0.541	-0.336	8e-05	NA	Hypomethylated in FP vs FN
cg14538320	0.157	0.408	-0.251	8e-05	NA	Hypomethylated in FP vs FN
cg16713551	0.256	0.519	-0.263	8e-05	NA	Hypomethylated in FP vs FN
cg09027255	0.393	0.664	-0.271	8e-05	NA	Hypomethylated in FP vs FN
cg22956205	0.463	0.769	-0.306	8e-05	NA	Hypomethylated in FP vs FN
cg02095401	0.384	0.668	-0.284	8e-05	NA	Hypomethylated in FP vs FN
cg01247693	0.347	0.671	-0.324	8e-05	NA	Hypomethylated in FP vs FN
cg26019584	0.293	0.607	-0.314	8e-05	NA	Hypomethylated in FP vs FN
cg12700449	0.222	0.506	-0.284	8e-05	NA	Hypomethylated in FP vs FN
cg02822745	0.525	0.784	-0.259	8e-05	NA	Hypomethylated in FP vs FN
cg10508760	0.287	0.650	-0.363	8e-05	NA	Hypomethylated in FP vs FN
cg20428976	0.365	0.653	-0.288	8e-05	NA	Hypomethylated in FP vs FN
cg19430577	0.174	0.519	-0.345	8e-05	STEAP4	Hypomethylated in FP vs FN
cg22586653	0.142	0.455	-0.313	8e-05	NA	Hypomethylated in FP vs FN
cg17771150	0.477	0.747	-0.271	8e-05	NA	Hypomethylated in FP vs FN
cg08832695	0.306	0.591	-0.285	8e-05	NA	Hypomethylated in FP vs FN
cg13345942	0.312	0.650	-0.339	8e-05	NA	Hypomethylated in FP vs FN
cg03490759	0.513	0.796	-0.283	8e-05	NA	Hypomethylated in FP vs FN
cg03182958	0.242	0.527	-0.285	8e-05	SGPP2	Hypomethylated in FP vs FN
cg24094450	0.408	0.687	-0.279	8e-05	NA	Hypomethylated in FP vs FN
cg18463607	0.412	0.663	-0.251	8e-05	EXOC1	Hypomethylated in FP vs FN
cg18936814	0.581	0.845	-0.264	8e-05	NA	Hypomethylated in FP vs FN
cg05563287	0.259	0.519	-0.260	8e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16490778	0.501	0.819	-0.318	8e-05	NA	Hypomethylated in FP vs FN
cg18351607	0.205	0.508	-0.303	8e-05	PSTK	Hypomethylated in FP vs FN
cg03303633	0.469	0.766	-0.297	8e-05	NA	Hypomethylated in FP vs FN
cg26656258	0.305	0.614	-0.309	8e-05	NA	Hypomethylated in FP vs FN
cg07161146	0.241	0.539	-0.298	8e-05	NA	Hypomethylated in FP vs FN
cg09804711	0.613	0.869	-0.255	8e-05	NA	Hypomethylated in FP vs FN
cg08806578	0.528	0.824	-0.296	8e-05	NA	Hypomethylated in FP vs FN
cg17485530	0.425	0.713	-0.288	8e-05	LBP	Hypomethylated in FP vs FN
cg22510074	0.289	0.546	-0.257	8e-05	CALN1	Hypomethylated in FP vs FN
cg03213775	0.310	0.587	-0.277	8e-05	NA	Hypomethylated in FP vs FN
cg25061289	0.468	0.753	-0.285	8e-05	NDN	Hypomethylated in FP vs FN
cg14564076	0.189	0.562	-0.373	8e-05	NA	Hypomethylated in FP vs FN
cg01664929	0.376	0.639	-0.263	8e-05	NA	Hypomethylated in FP vs FN
cg06365303	0.265	0.547	-0.282	8e-05	NA	Hypomethylated in FP vs FN
cg21910416	0.458	0.723	-0.266	8e-05	NA	Hypomethylated in FP vs FN
cg04774597	0.353	0.676	-0.324	8e-05	RPLP1	Hypomethylated in FP vs FN
cg02997983	0.288	0.665	-0.377	8e-05	NA	Hypomethylated in FP vs FN
cg10804687	0.385	0.675	-0.291	8e-05	NA	Hypomethylated in FP vs FN
cg24496666	0.106	0.396	-0.290	8e-05	GIPC2	Hypomethylated in FP vs FN
cg16404106	0.432	0.710	-0.278	8e-05	CCDC81	Hypomethylated in FP vs FN
cg11912330	0.049	0.392	-0.343	8e-05	PCP4L1	Hypomethylated in FP vs FN
cg06145336	0.442	0.764	-0.323	8e-05	HOXD3	Hypomethylated in FP vs FN
cg00905419	0.559	0.828	-0.269	8e-05	NA	Hypomethylated in FP vs FN
cg14621254	0.562	0.827	-0.265	8e-05	NA	Hypomethylated in FP vs FN
cg10979436	0.200	0.576	-0.376	8e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13786236	0.551	0.844	-0.293	8e-05	NA	Hypomethylated in FP vs FN
cg27084903	0.126	0.463	-0.336	8e-05	PTEN_KILLIN	Hypomethylated in FP vs FN
cg01917657	0.298	0.571	-0.273	8e-05	NA	Hypomethylated in FP vs FN
cg04196068	0.435	0.777	-0.342	8e-05	NA	Hypomethylated in FP vs FN
cg14614094	0.575	0.849	-0.275	8e-05	EXOSC2	Hypomethylated in FP vs FN
cg00681462	0.335	0.701	-0.366	8e-05	NA	Hypomethylated in FP vs FN
cg03267697	0.465	0.760	-0.295	8e-05	GMPPA	Hypomethylated in FP vs FN
cg13211302	0.399	0.693	-0.294	8e-05	NA	Hypomethylated in FP vs FN
cg13044675	0.267	0.670	-0.402	8e-05	NA	Hypomethylated in FP vs FN
cg23570694	0.309	0.590	-0.281	8e-05	NA	Hypomethylated in FP vs FN
cg09648809	0.575	0.827	-0.252	8e-05	NA	Hypomethylated in FP vs FN
cg18783792	0.313	0.579	-0.267	8e-05	NA	Hypomethylated in FP vs FN
cg00348222	0.417	0.707	-0.291	8e-05	NA	Hypomethylated in FP vs FN
cg25570495	0.379	0.676	-0.297	8e-05	SALL4	Hypomethylated in FP vs FN
cg18306861	0.236	0.544	-0.308	8e-05	PLEK2	Hypomethylated in FP vs FN
cg23014487	0.264	0.534	-0.270	8e-05	NA	Hypomethylated in FP vs FN
cg15450295	0.229	0.611	-0.382	8e-05	NA	Hypomethylated in FP vs FN
cg06334737	0.427	0.733	-0.306	8e-05	SCGB2A1	Hypomethylated in FP vs FN
cg01217815	0.319	0.615	-0.296	8e-05	NA	Hypomethylated in FP vs FN
cg03124146	0.277	0.620	-0.343	8e-05	NA	Hypomethylated in FP vs FN
cg15152595	0.327	0.648	-0.321	8e-05	NA	Hypomethylated in FP vs FN
cg00949753	0.234	0.539	-0.305	8e-05	NA	Hypomethylated in FP vs FN
cg10092108	0.398	0.680	-0.282	8e-05	NA	Hypomethylated in FP vs FN
cg20726993	0.450	0.715	-0.265	8e-05	NA	Hypomethylated in FP vs FN
cg00254681	0.403	0.732	-0.328	8e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18614735	0.303	0.601	-0.298	8e-05	NA	Hypomethylated in FP vs FN
cg01152019	0.402	0.704	-0.302	8e-05	HOXD4	Hypomethylated in FP vs FN
cg18049228	0.241	0.514	-0.274	8e-05	NA	Hypomethylated in FP vs FN
cg25271892	0.199	0.449	-0.251	8e-05	CHRM1	Hypomethylated in FP vs FN
cg09044186	0.618	0.871	-0.254	8e-05	NA	Hypomethylated in FP vs FN
cg13969584	0.255	0.604	-0.349	8e-05	AFG3L1_CENPBD1	Hypomethylated in FP vs FN
cg27498434	0.286	0.538	-0.252	8e-05	NA	Hypomethylated in FP vs FN
cg21864868	0.422	0.694	-0.271	8e-05	LOC404266	Hypomethylated in FP vs FN
cg20798249	0.242	0.584	-0.343	8e-05	MLNR	Hypomethylated in FP vs FN
cg02532824	0.157	0.416	-0.259	8e-05	NA	Hypomethylated in FP vs FN
cg09427605	0.374	0.707	-0.333	8e-05	NA	Hypomethylated in FP vs FN
cg00463848	0.415	0.703	-0.288	8e-05	KRT2	Hypomethylated in FP vs FN
cg05291374	0.426	0.707	-0.281	8e-05	DIXDC1	Hypomethylated in FP vs FN
cg18365406	0.502	0.761	-0.259	8e-05	NA	Hypomethylated in FP vs FN
cg27167613	0.404	0.707	-0.303	8e-05	GRIK5	Hypomethylated in FP vs FN
cg17173663	0.285	0.584	-0.299	8e-05	NA	Hypomethylated in FP vs FN
cg03668103	0.168	0.474	-0.306	8e-05	PKHD1L1	Hypomethylated in FP vs FN
cg13566141	0.484	0.771	-0.287	8e-05	NA	Hypomethylated in FP vs FN
cg18129628	0.437	0.742	-0.305	8e-05	NA	Hypomethylated in FP vs FN
cg25584862	0.344	0.602	-0.258	8e-05	NA	Hypomethylated in FP vs FN
cg14393114	0.187	0.515	-0.328	8e-05	ZSWIM2	Hypomethylated in FP vs FN
cg11763914	0.443	0.726	-0.283	8e-05	NA	Hypomethylated in FP vs FN
cg07920525	0.176	0.517	-0.341	8e-05	NA	Hypomethylated in FP vs FN
cg05845757	0.416	0.695	-0.279	8e-05	NA	Hypomethylated in FP vs FN
cg26678605	0.176	0.574	-0.398	8e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07992500	0.396	0.677	-0.282	8e-05	NA	Hypomethylated in FP vs FN
cg04036593	0.512	0.792	-0.280	8e-05	NA	Hypomethylated in FP vs FN
cg04919784	0.122	0.468	-0.346	8e-05	NA	Hypomethylated in FP vs FN
cg13278267	0.226	0.535	-0.309	8e-05	NA	Hypomethylated in FP vs FN
cg00872726	0.115	0.451	-0.335	8e-05	NA	Hypomethylated in FP vs FN
cg13710814	0.540	0.800	-0.260	8e-05	NA	Hypomethylated in FP vs FN
cg02510802	0.313	0.631	-0.318	8e-05	SPAG4L	Hypomethylated in FP vs FN
cg26160564	0.449	0.761	-0.312	8e-05	NA	Hypomethylated in FP vs FN
cg14940048	0.432	0.748	-0.315	8e-05	NA	Hypomethylated in FP vs FN
cg22496559	0.520	0.794	-0.274	8e-05	TM4SF19	Hypomethylated in FP vs FN
cg02862867	0.304	0.572	-0.268	8e-05	IPO9	Hypomethylated in FP vs FN
cg14937228	0.431	0.685	-0.254	8e-05	NA	Hypomethylated in FP vs FN
cg11405852	0.499	0.764	-0.266	8e-05	KRT72	Hypomethylated in FP vs FN
cg08186924	0.170	0.433	-0.263	8e-05	NA	Hypomethylated in FP vs FN
cg00522231	0.556	0.839	-0.283	8e-05	NA	Hypomethylated in FP vs FN
cg11416276	0.482	0.754	-0.272	9e-05	NA	Hypomethylated in FP vs FN
cg22248052	0.248	0.604	-0.356	9e-05	NA	Hypomethylated in FP vs FN
cg24721647	0.321	0.627	-0.305	9e-05	NA	Hypomethylated in FP vs FN
cg03209642	0.102	0.440	-0.338	9e-05	FES	Hypomethylated in FP vs FN
cg11023900	0.267	0.613	-0.346	9e-05	NA	Hypomethylated in FP vs FN
cg00170459	0.454	0.762	-0.307	9e-05	NA	Hypomethylated in FP vs FN
cg01527159	0.291	0.585	-0.294	9e-05	NA	Hypomethylated in FP vs FN
cg23922739	0.174	0.459	-0.285	9e-05	NA	Hypomethylated in FP vs FN
cg23026602	0.251	0.577	-0.325	9e-05	NA	Hypomethylated in FP vs FN
cg07139284	0.337	0.694	-0.357	9e-05	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19981828	0.309	0.594	-0.286	9e-05	CLRN1_CLRN1OS	Hypomethylated in FP vs FN
cg11919577	0.280	0.531	-0.251	9e-05	NA	Hypomethylated in FP vs FN
cg00310404	0.497	0.747	-0.250	9e-05	NA	Hypomethylated in FP vs FN
cg23303074	0.148	0.463	-0.315	9e-05	NA	Hypomethylated in FP vs FN
cg07890553	0.390	0.683	-0.293	9e-05	TMEM39A	Hypomethylated in FP vs FN
cg20904286	0.393	0.664	-0.271	9e-05	NA	Hypomethylated in FP vs FN
cg05896682	0.211	0.509	-0.298	9e-05	NA	Hypomethylated in FP vs FN
cg04859969	0.266	0.553	-0.286	9e-05	NA	Hypomethylated in FP vs FN
cg01500527	0.509	0.765	-0.256	9e-05	NA	Hypomethylated in FP vs FN
cg20764887	0.326	0.686	-0.360	9e-05	NA	Hypomethylated in FP vs FN
cg16200799	0.401	0.665	-0.264	9e-05	NA	Hypomethylated in FP vs FN
cg12982322	0.350	0.692	-0.342	9e-05	NA	Hypomethylated in FP vs FN
cg23352424	0.550	0.802	-0.252	9e-05	NA	Hypomethylated in FP vs FN
cg18579879	0.374	0.686	-0.312	9e-05	WNT16	Hypomethylated in FP vs FN
cg22790377	0.354	0.672	-0.318	9e-05	C1orf35	Hypomethylated in FP vs FN
cg15471073	0.473	0.747	-0.274	9e-05	NA	Hypomethylated in FP vs FN
cg20454518	0.298	0.597	-0.300	9e-05	NA	Hypomethylated in FP vs FN
cg08631328	0.363	0.663	-0.300	9e-05	NA	Hypomethylated in FP vs FN
cg10764068	0.439	0.690	-0.251	9e-05	NA	Hypomethylated in FP vs FN
cg14830791	0.302	0.577	-0.274	9e-05	NA	Hypomethylated in FP vs FN
cg23633028	0.407	0.677	-0.270	9e-05	NA	Hypomethylated in FP vs FN
cg10266060	0.387	0.643	-0.256	9e-05	NA	Hypomethylated in FP vs FN
cg27079680	0.270	0.563	-0.293	9e-05	LOC134466	Hypomethylated in FP vs FN
cg00998387	0.297	0.641	-0.344	9e-05	NA	Hypomethylated in FP vs FN
cg00356131	0.510	0.799	-0.289	9e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07293445	0.126	0.464	-0.339	9e-05	NA	Hypomethylated in FP vs FN
cg15120454	0.159	0.478	-0.319	9e-05	RHBG	Hypomethylated in FP vs FN
cg14506032	0.357	0.621	-0.264	9e-05	NA	Hypomethylated in FP vs FN
cg21533997	0.193	0.456	-0.264	9e-05	PTGER1	Hypomethylated in FP vs FN
cg18692678	0.267	0.597	-0.330	9e-05	NA	Hypomethylated in FP vs FN
cg21576256	0.442	0.702	-0.260	9e-05	NA	Hypomethylated in FP vs FN
cg15195321	0.098	0.395	-0.297	9e-05	HAND2	Hypomethylated in FP vs FN
cg01398941	0.350	0.692	-0.343	9e-05	NA	Hypomethylated in FP vs FN
cg17150246	0.184	0.533	-0.349	9e-05	KLHDC9	Hypomethylated in FP vs FN
cg23588360	0.252	0.574	-0.322	9e-05	NA	Hypomethylated in FP vs FN
cg04484550	0.451	0.780	-0.329	9e-05	NA	Hypomethylated in FP vs FN
cg05638689	0.275	0.617	-0.342	9e-05	NA	Hypomethylated in FP vs FN
cg26848718	0.213	0.572	-0.359	9e-05	NA	Hypomethylated in FP vs FN
cg18750087	0.304	0.559	-0.255	9e-05	NA	Hypomethylated in FP vs FN
cg17439800	0.402	0.654	-0.252	9e-05	NA	Hypomethylated in FP vs FN
cg07703790	0.428	0.729	-0.300	9e-05	DSG1	Hypomethylated in FP vs FN
cg08171336	0.347	0.645	-0.297	9e-05	TIGD5	Hypomethylated in FP vs FN
cg09614415	0.148	0.573	-0.425	9e-05	FOXI2	Hypomethylated in FP vs FN
cg24389730	0.166	0.489	-0.323	9e-05	MIR152	Hypomethylated in FP vs FN
cg27324576	0.542	0.809	-0.267	9e-05	NA	Hypomethylated in FP vs FN
cg02167020	0.251	0.587	-0.336	9e-05	NA	Hypomethylated in FP vs FN
cg10407489	0.496	0.763	-0.268	9e-05	NA	Hypomethylated in FP vs FN
cg23251858	0.402	0.653	-0.251	9e-05	NA	Hypomethylated in FP vs FN
cg00248242	0.397	0.690	-0.293	9e-05	NA	Hypomethylated in FP vs FN
cg00682734	0.214	0.506	-0.293	9e-05	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10182869	0.403	0.691	-0.288	9e-05	TMEM196	Hypomethylated in FP vs FN
cg04607412	0.394	0.691	-0.298	9e-05	NA	Hypomethylated in FP vs FN
cg07169046	0.375	0.631	-0.255	9e-05	NA	Hypomethylated in FP vs FN
cg16173847	0.338	0.600	-0.262	9e-05	NA	Hypomethylated in FP vs FN
cg06341054	0.114	0.446	-0.333	9e-05	SPATA18	Hypomethylated in FP vs FN
cg26685743	0.478	0.748	-0.271	9e-05	NA	Hypomethylated in FP vs FN
cg03904291	0.384	0.634	-0.251	9e-05	ABCG4	Hypomethylated in FP vs FN
cg12334871	0.376	0.651	-0.275	9e-05	NA	Hypomethylated in FP vs FN
cg17611046	0.296	0.548	-0.252	9e-05	NA	Hypomethylated in FP vs FN
cg17238830	0.461	0.712	-0.250	9e-05	NA	Hypomethylated in FP vs FN
cg02071294	0.111	0.409	-0.298	9e-05	NA	Hypomethylated in FP vs FN
cg18146737	0.246	0.560	-0.314	9e-05	NA	Hypomethylated in FP vs FN
cg02327997	0.148	0.441	-0.292	9e-05	ADAM12	Hypomethylated in FP vs FN
cg13453374	0.284	0.591	-0.307	9e-05	NA	Hypomethylated in FP vs FN
cg17037963	0.165	0.465	-0.300	9e-05	NA	Hypomethylated in FP vs FN
cg01808723	0.475	0.739	-0.264	9e-05	NA	Hypomethylated in FP vs FN
cg23115387	0.382	0.653	-0.271	9e-05	FOXE3	Hypomethylated in FP vs FN
cg01256365	0.350	0.613	-0.263	9e-05	NA	Hypomethylated in FP vs FN
cg05237641	0.097	0.381	-0.285	1e-04	ADAM12	Hypomethylated in FP vs FN
cg06638723	0.422	0.717	-0.295	1e-04	MIR548F1	Hypomethylated in FP vs FN
cg15473017	0.280	0.619	-0.339	1e-04	NA	Hypomethylated in FP vs FN
cg27208079	0.463	0.755	-0.292	1e-04	NA	Hypomethylated in FP vs FN
cg05579030	0.352	0.690	-0.338	1e-04	PCDHB5	Hypomethylated in FP vs FN
cg20503956	0.218	0.552	-0.334	1e-04	CA13	Hypomethylated in FP vs FN
cg19107469	0.174	0.425	-0.251	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24427504	0.142	0.463	-0.321	1e-04	NA	Hypomethylated in FP vs FN
cg11703759	0.473	0.734	-0.261	1e-04	NA	Hypomethylated in FP vs FN
cg01089834	0.226	0.477	-0.251	1e-04	PCDHA3	Hypomethylated in FP vs FN
cg17473898	0.279	0.565	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg06392753	0.461	0.770	-0.308	1e-04	NA	Hypomethylated in FP vs FN
cg27007255	0.350	0.618	-0.268	1e-04	NA	Hypomethylated in FP vs FN
cg07203490	0.349	0.621	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg23318786	0.077	0.363	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg11322797	0.426	0.751	-0.325	1e-04	NA	Hypomethylated in FP vs FN
cg08899471	0.344	0.620	-0.276	1e-04	NA	Hypomethylated in FP vs FN
cg01587386	0.459	0.716	-0.257	1e-04	NA	Hypomethylated in FP vs FN
cg12707135	0.273	0.632	-0.359	1e-04	NA	Hypomethylated in FP vs FN
cg18664869	0.314	0.600	-0.285	1e-04	PCDHB15	Hypomethylated in FP vs FN
cg27124774	0.281	0.560	-0.278	1e-04	PCDHB10	Hypomethylated in FP vs FN
cg04538990	0.495	0.771	-0.275	1e-04	NA	Hypomethylated in FP vs FN
cg07759903	0.345	0.624	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg12331932	0.331	0.636	-0.305	1e-04	CD300A	Hypomethylated in FP vs FN
cg27183030	0.085	0.339	-0.254	1e-04	NA	Hypomethylated in FP vs FN
cg18921025	0.475	0.727	-0.252	1e-04	NA	Hypomethylated in FP vs FN
cg21558509	0.222	0.530	-0.309	1e-04	NA	Hypomethylated in FP vs FN
cg13490403	0.123	0.514	-0.391	1e-04	NA	Hypomethylated in FP vs FN
cg21691065	0.471	0.757	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg03607680	0.392	0.709	-0.317	1e-04	NA	Hypomethylated in FP vs FN
cg08539210	0.245	0.575	-0.330	1e-04	AFG3L1_CENPBD1	Hypomethylated in FP vs FN
cg23249868	0.391	0.645	-0.254	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01510278	0.486	0.739	-0.254	1e-04	NA	Hypomethylated in FP vs FN
cg15183092	0.193	0.507	-0.313	1e-04	NA	Hypomethylated in FP vs FN
cg04392284	0.256	0.531	-0.275	1e-04	NA	Hypomethylated in FP vs FN
cg07320496	0.391	0.642	-0.251	1e-04	ATP10B	Hypomethylated in FP vs FN
cg14283447	0.304	0.592	-0.287	1e-04	TFF3	Hypomethylated in FP vs FN
cg14196225	0.297	0.576	-0.279	1e-04	HOPX	Hypomethylated in FP vs FN
cg19274612	0.275	0.596	-0.321	1e-04	NA	Hypomethylated in FP vs FN
cg05490023	0.280	0.540	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg03448548	0.311	0.575	-0.264	1e-04	NA	Hypomethylated in FP vs FN
cg12821278	0.266	0.548	-0.281	1e-04	DBC1	Hypomethylated in FP vs FN
cg05392777	0.374	0.702	-0.328	1e-04	NA	Hypomethylated in FP vs FN
cg07033513	0.468	0.756	-0.288	1e-04	NA	Hypomethylated in FP vs FN
cg16797473	0.408	0.706	-0.297	1e-04	NA	Hypomethylated in FP vs FN
cg22290648	0.199	0.555	-0.356	1e-04	SYCN	Hypomethylated in FP vs FN
cg19621427	0.517	0.768	-0.252	1e-04	NA	Hypomethylated in FP vs FN
cg07630327	0.357	0.625	-0.268	1e-04	NA	Hypomethylated in FP vs FN
cg14444710	0.427	0.701	-0.274	1e-04	PDPK1	Hypomethylated in FP vs FN
cg25412979	0.152	0.407	-0.255	1e-04	PCDHB7	Hypomethylated in FP vs FN
cg09432154	0.411	0.688	-0.277	1e-04	GPR87	Hypomethylated in FP vs FN
cg16685313	0.426	0.731	-0.304	1e-04	NA	Hypomethylated in FP vs FN
cg21069814	0.570	0.849	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg07586956	0.469	0.734	-0.264	1e-04	NA	Hypomethylated in FP vs FN
cg21404878	0.310	0.596	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg03208426	0.134	0.404	-0.270	1e-04	NA	Hypomethylated in FP vs FN
cg00289503	0.384	0.656	-0.272	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01957150	0.432	0.687	-0.255	1e-04	NA	Hypomethylated in FP vs FN
cg15812586	0.366	0.624	-0.257	1e-04	NA	Hypomethylated in FP vs FN
cg09252806	0.274	0.559	-0.285	1e-04	NA	Hypomethylated in FP vs FN
cg10136012	0.231	0.534	-0.303	1e-04	NA	Hypomethylated in FP vs FN
cg12160258	0.287	0.614	-0.327	1e-04	TMEM26	Hypomethylated in FP vs FN
cg02642822	0.349	0.651	-0.302	1e-04	LOC404266	Hypomethylated in FP vs FN
cg27592564	0.276	0.634	-0.358	1e-04	NA	Hypomethylated in FP vs FN
cg23346622	0.143	0.490	-0.346	1e-04	NA	Hypomethylated in FP vs FN
cg26598831	0.347	0.626	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg10395448	0.168	0.472	-0.304	1e-04	GJB6	Hypomethylated in FP vs FN
cg20848441	0.420	0.686	-0.265	1e-04	NA	Hypomethylated in FP vs FN
cg11593729	0.366	0.642	-0.276	1e-04	CLRN1_CLRN1OS	Hypomethylated in FP vs FN
cg19787532	0.304	0.617	-0.314	1e-04	TBX5	Hypomethylated in FP vs FN
cg00181061	0.502	0.768	-0.266	1e-04	NA	Hypomethylated in FP vs FN
cg23183559	0.294	0.618	-0.324	1e-04	NA	Hypomethylated in FP vs FN
cg03299329	0.330	0.629	-0.299	1e-04	FAM26D	Hypomethylated in FP vs FN
cg16620526	0.153	0.486	-0.332	1e-04	LVRN	Hypomethylated in FP vs FN
cg13126790	0.365	0.632	-0.267	1e-04	NA	Hypomethylated in FP vs FN
cg09100695	0.239	0.649	-0.410	1e-04	TPD52L1	Hypomethylated in FP vs FN
cg13673363	0.477	0.734	-0.257	1e-04	NA	Hypomethylated in FP vs FN
cg23547017	0.279	0.585	-0.305	1e-04	NA	Hypomethylated in FP vs FN
cg10131657	0.094	0.410	-0.317	1e-04	PKHD1L1	Hypomethylated in FP vs FN
cg08937774	0.541	0.806	-0.265	1e-04	NA	Hypomethylated in FP vs FN
cg13007502	0.576	0.848	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg25592513	0.190	0.488	-0.298	1e-04	PCDHGB1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11165765	0.377	0.628	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg00783000	0.445	0.726	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg21868063	0.277	0.564	-0.287	1e-04	MGAT5B	Hypomethylated in FP vs FN
cg02863073	0.171	0.529	-0.358	1e-04	SYCN	Hypomethylated in FP vs FN
cg26444951	0.242	0.568	-0.326	1e-04	NA	Hypomethylated in FP vs FN
cg20679011	0.291	0.542	-0.252	1e-04	NA	Hypomethylated in FP vs FN
cg17863312	0.353	0.668	-0.315	1e-04	NA	Hypomethylated in FP vs FN
cg13320211	0.556	0.812	-0.256	1e-04	NA	Hypomethylated in FP vs FN
cg19513940	0.244	0.564	-0.320	1e-04	NA	Hypomethylated in FP vs FN
cg04475846	0.366	0.617	-0.251	1e-04	KRT2	Hypomethylated in FP vs FN
cg24325996	0.324	0.654	-0.330	1e-04	CRABP1	Hypomethylated in FP vs FN
cg02207155	0.433	0.707	-0.273	1e-04	NA	Hypomethylated in FP vs FN
cg22912331	0.242	0.494	-0.253	1e-04	NA	Hypomethylated in FP vs FN
cg17749384	0.298	0.552	-0.254	1e-04	MPP7	Hypomethylated in FP vs FN
cg02680314	0.311	0.614	-0.303	1e-04	NA	Hypomethylated in FP vs FN
cg04076817	0.373	0.626	-0.253	1e-04	NA	Hypomethylated in FP vs FN
cg18692149	0.216	0.615	-0.399	1e-04	NA	Hypomethylated in FP vs FN
cg14968732	0.289	0.551	-0.262	1e-04	NA	Hypomethylated in FP vs FN
cg20992181	0.206	0.556	-0.349	1e-04	NA	Hypomethylated in FP vs FN
cg01307915	0.143	0.441	-0.297	1e-04	NA	Hypomethylated in FP vs FN
cg06497198	0.096	0.435	-0.339	1e-04	NHLRC1	Hypomethylated in FP vs FN
cg13471599	0.428	0.734	-0.305	1e-04	NA	Hypomethylated in FP vs FN
cg13297960	0.443	0.741	-0.297	1e-04	NCAM2	Hypomethylated in FP vs FN
cg24901091	0.421	0.732	-0.311	1e-04	NA	Hypomethylated in FP vs FN
cg03447435	0.268	0.589	-0.321	1e-04	PCDHGB1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18057109	0.286	0.581	-0.295	1e-04	NA	Hypomethylated in FP vs FN
cg03729152	0.453	0.756	-0.302	1e-04	NA	Hypomethylated in FP vs FN
cg17430805	0.386	0.645	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg12671744	0.215	0.502	-0.287	1e-04	FAAH	Hypomethylated in FP vs FN
cg19202813	0.474	0.753	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg00877329	0.344	0.675	-0.331	1e-04	HPSE2	Hypomethylated in FP vs FN
cg15402529	0.455	0.750	-0.295	1e-04	NA	Hypomethylated in FP vs FN
cg24161501	0.236	0.571	-0.335	1e-04	NA	Hypomethylated in FP vs FN
cg10902717	0.155	0.482	-0.327	1e-04	NA	Hypomethylated in FP vs FN
cg09813060	0.395	0.679	-0.284	1e-04	NA	Hypomethylated in FP vs FN
cg14163444	0.132	0.389	-0.256	1e-04	NA	Hypomethylated in FP vs FN
cg26630735	0.348	0.690	-0.342	1e-04	CCDC68	Hypomethylated in FP vs FN
cg07046818	0.373	0.675	-0.301	1e-04	NA	Hypomethylated in FP vs FN
cg25420952	0.436	0.691	-0.254	1e-04	AMBP	Hypomethylated in FP vs FN
cg11841394	0.248	0.597	-0.348	1e-04	NA	Hypomethylated in FP vs FN
cg12494355	0.362	0.613	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg27064287	0.321	0.664	-0.343	1e-04	BANK1	Hypomethylated in FP vs FN
cg03145999	0.095	0.476	-0.381	1e-04	ZSCAN18	Hypomethylated in FP vs FN
cg10418567	0.082	0.403	-0.320	1e-04	SPATA18	Hypomethylated in FP vs FN
cg20970845	0.496	0.759	-0.263	1e-04	NA	Hypomethylated in FP vs FN
cg01704957	0.125	0.377	-0.252	1e-04	YBX2	Hypomethylated in FP vs FN
cg11949335	0.471	0.753	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg27631199	0.364	0.683	-0.319	1e-04	NA	Hypomethylated in FP vs FN
cg06927900	0.297	0.558	-0.261	1e-04	NA	Hypomethylated in FP vs FN
cg07122905	0.298	0.564	-0.266	1e-04	TC2N	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21546184	0.317	0.693	-0.376	1e-04	NA	Hypomethylated in FP vs FN
cg00914726	0.295	0.627	-0.333	1e-04	C1orf87	Hypomethylated in FP vs FN
cg16176379	0.126	0.485	-0.359	1e-04	LPCAT2	Hypomethylated in FP vs FN
cg27376924	0.168	0.538	-0.370	1e-04	NA	Hypomethylated in FP vs FN
cg04273871	0.381	0.674	-0.293	1e-04	NA	Hypomethylated in FP vs FN
cg01939741	0.347	0.623	-0.276	1e-04	NA	Hypomethylated in FP vs FN
cg14187242	0.355	0.618	-0.263	1e-04	NA	Hypomethylated in FP vs FN
cg13932794	0.217	0.472	-0.254	1e-04	NA	Hypomethylated in FP vs FN
cg04837832	0.305	0.626	-0.321	1e-04	NA	Hypomethylated in FP vs FN
cg06619621	0.150	0.503	-0.353	1e-04	NA	Hypomethylated in FP vs FN
cg14656153	0.539	0.791	-0.252	1e-04	NA	Hypomethylated in FP vs FN
cg06383233	0.457	0.739	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg15674432	0.228	0.500	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg00206779	0.359	0.672	-0.313	1e-04	NA	Hypomethylated in FP vs FN
cg15854847	0.156	0.524	-0.368	1e-04	NKX2-6	Hypomethylated in FP vs FN
cg07312716	0.476	0.753	-0.277	1e-04	NA	Hypomethylated in FP vs FN
cg02312175	0.323	0.679	-0.356	1e-04	NA	Hypomethylated in FP vs FN
cg22798223	0.241	0.555	-0.314	1e-04	NA	Hypomethylated in FP vs FN
cg23491807	0.537	0.819	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg20824989	0.303	0.673	-0.371	1e-04	NA	Hypomethylated in FP vs FN
cg23969554	0.465	0.794	-0.329	1e-04	NA	Hypomethylated in FP vs FN
cg16562486	0.356	0.628	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg27217474	0.259	0.611	-0.352	1e-04	NA	Hypomethylated in FP vs FN
cg10134939	0.526	0.781	-0.255	1e-04	FAM176A	Hypomethylated in FP vs FN
cg09244312	0.422	0.690	-0.268	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06707978	0.227	0.533	-0.306	1e-04	ZIK1	Hypomethylated in FP vs FN
cg04502620	0.371	0.664	-0.293	1e-04	NA	Hypomethylated in FP vs FN
cg09306340	0.278	0.620	-0.342	1e-04	KLHDC9	Hypomethylated in FP vs FN
cg06327965	0.259	0.532	-0.273	1e-04	NA	Hypomethylated in FP vs FN
cg09387749	0.425	0.753	-0.328	1e-04	HOXD3	Hypomethylated in FP vs FN
cg17834632	0.241	0.500	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg18533397	0.239	0.572	-0.333	1e-04	NA	Hypomethylated in FP vs FN
cg06680369	0.308	0.644	-0.336	1e-04	NA	Hypomethylated in FP vs FN
cg02775230	0.470	0.725	-0.256	1e-04	NA	Hypomethylated in FP vs FN
cg09565319	0.523	0.858	-0.334	1e-04	NA	Hypomethylated in FP vs FN
cg01528028	0.361	0.668	-0.307	1e-04	NA	Hypomethylated in FP vs FN
cg07762764	0.359	0.616	-0.258	1e-04	NA	Hypomethylated in FP vs FN
cg00089486	0.217	0.526	-0.309	1e-04	NA	Hypomethylated in FP vs FN
cg26692873	0.357	0.710	-0.353	1e-04	NA	Hypomethylated in FP vs FN
cg22984571	0.081	0.396	-0.315	1e-04	NA	Hypomethylated in FP vs FN
cg08928038	0.389	0.647	-0.257	1e-04	GAST	Hypomethylated in FP vs FN
cg11357746	0.161	0.529	-0.368	1e-04	NA	Hypomethylated in FP vs FN
cg19630667	0.238	0.492	-0.254	1e-04	NA	Hypomethylated in FP vs FN
cg13989664	0.324	0.611	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg13556934	0.415	0.698	-0.283	1e-04	NA	Hypomethylated in FP vs FN
cg00576474	0.400	0.685	-0.285	1e-04	NA	Hypomethylated in FP vs FN
cg09150064	0.248	0.558	-0.310	1e-04	NA	Hypomethylated in FP vs FN
cg01726767	0.387	0.659	-0.272	1e-04	LALBA	Hypomethylated in FP vs FN
cg25121292	0.295	0.554	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg08700932	0.372	0.682	-0.310	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08264859	0.375	0.640	-0.265	1e-04	NA	Hypomethylated in FP vs FN
cg16945685	0.337	0.602	-0.264	1e-04	NA	Hypomethylated in FP vs FN
cg05188268	0.483	0.765	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg13778274	0.440	0.729	-0.289	1e-04	NA	Hypomethylated in FP vs FN
cg00512459	0.244	0.495	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg08129331	0.469	0.738	-0.270	1e-04	NA	Hypomethylated in FP vs FN
cg12138102	0.412	0.711	-0.299	1e-04	NDN	Hypomethylated in FP vs FN
cg25499537	0.287	0.551	-0.263	1e-04	IGSF10	Hypomethylated in FP vs FN
cg07568117	0.485	0.757	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg02222844	0.521	0.801	-0.280	1e-04	NA	Hypomethylated in FP vs FN
cg20293352	0.449	0.746	-0.298	1e-04	CD34	Hypomethylated in FP vs FN
cg24828620	0.287	0.600	-0.314	1e-04	ZPBP	Hypomethylated in FP vs FN
cg07447742	0.178	0.460	-0.281	1e-04	MLNR	Hypomethylated in FP vs FN
cg12663550	0.345	0.596	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg06829299	0.235	0.558	-0.323	1e-04	NA	Hypomethylated in FP vs FN
cg11846905	0.484	0.755	-0.271	1e-04	NA	Hypomethylated in FP vs FN
cg24843380	0.085	0.452	-0.367	1e-04	ZNF454	Hypomethylated in FP vs FN
cg13148478	0.308	0.580	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg18862566	0.245	0.546	-0.301	1e-04	NA	Hypomethylated in FP vs FN
cg25786696	0.245	0.544	-0.299	1e-04	NA	Hypomethylated in FP vs FN
cg07241573	0.405	0.686	-0.280	1e-04	GALR1	Hypomethylated in FP vs FN
cg15595627	0.416	0.676	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg18533282	0.156	0.473	-0.317	1e-04	SPATA18	Hypomethylated in FP vs FN
cg15493618	0.391	0.688	-0.297	1e-04	NA	Hypomethylated in FP vs FN
cg10430077	0.444	0.697	-0.253	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19565094	0.272	0.527	-0.255	1e-04	NA	Hypomethylated in FP vs FN
cg18130905	0.526	0.785	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg06570931	0.057	0.315	-0.258	1e-04	NHLRC1	Hypomethylated in FP vs FN
cg21436572	0.480	0.783	-0.303	1e-04	NA	Hypomethylated in FP vs FN
cg10955243	0.549	0.809	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg11982805	0.476	0.737	-0.261	1e-04	NA	Hypomethylated in FP vs FN
cg21337580	0.478	0.754	-0.276	1e-04	MTMR9	Hypomethylated in FP vs FN
cg06076901	0.392	0.658	-0.266	1e-04	NA	Hypomethylated in FP vs FN
cg08456859	0.521	0.799	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg07485417	0.391	0.673	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg03994717	0.387	0.678	-0.291	1e-04	NA	Hypomethylated in FP vs FN
cg19537719	0.220	0.628	-0.408	1e-04	NA	Hypomethylated in FP vs FN
cg19796981	0.174	0.506	-0.332	1e-04	NA	Hypomethylated in FP vs FN
cg01514538	0.416	0.728	-0.312	1e-04	NA	Hypomethylated in FP vs FN
cg13488201	0.117	0.408	-0.290	1e-04	ADAM12	Hypomethylated in FP vs FN
cg06934974	0.475	0.753	-0.278	1e-04	NA	Hypomethylated in FP vs FN
cg03215105	0.161	0.439	-0.278	1e-04	NA	Hypomethylated in FP vs FN
cg26876914	0.400	0.669	-0.269	1e-04	NA	Hypomethylated in FP vs FN
cg27086874	0.323	0.610	-0.287	1e-04	PCDHB18	Hypomethylated in FP vs FN
cg15006881	0.465	0.734	-0.269	1e-04	NA	Hypomethylated in FP vs FN
cg15167736	0.509	0.776	-0.267	1e-04	MUC21	Hypomethylated in FP vs FN
cg24629663	0.537	0.794	-0.256	1e-04	NA	Hypomethylated in FP vs FN
cg13439299	0.346	0.630	-0.284	1e-04	DNAJC5G	Hypomethylated in FP vs FN
cg01231009	0.446	0.740	-0.293	1e-04	NA	Hypomethylated in FP vs FN
cg19244662	0.339	0.647	-0.308	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13510813	0.480	0.740	-0.261	1e-04	GRIK5	Hypomethylated in FP vs FN
cg22268341	0.543	0.798	-0.256	1e-04	MIR1252	Hypomethylated in FP vs FN
cg25805837	0.552	0.831	-0.279	1e-04	NA	Hypomethylated in FP vs FN
cg08430395	0.397	0.696	-0.299	1e-04	NA	Hypomethylated in FP vs FN
cg16600876	0.394	0.690	-0.296	1e-04	NA	Hypomethylated in FP vs FN
cg07963046	0.401	0.715	-0.314	1e-04	NA	Hypomethylated in FP vs FN
cg09982918	0.314	0.597	-0.284	1e-04	MYO18B	Hypomethylated in FP vs FN
cg22920586	0.543	0.794	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg27531496	0.543	0.828	-0.285	1e-04	NA	Hypomethylated in FP vs FN
cg18813020	0.235	0.539	-0.304	1e-04	NA	Hypomethylated in FP vs FN
cg14031402	0.190	0.440	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg26959257	0.298	0.560	-0.261	1e-04	NA	Hypomethylated in FP vs FN
cg03532926	0.180	0.568	-0.388	1e-04	NA	Hypomethylated in FP vs FN
cg07464571	0.330	0.657	-0.327	1e-04	LEP	Hypomethylated in FP vs FN
cg10837806	0.162	0.425	-0.263	1e-04	PTGDR	Hypomethylated in FP vs FN
cg16467262	0.262	0.546	-0.284	1e-04	NA	Hypomethylated in FP vs FN
cg26015971	0.477	0.736	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg01228636	0.189	0.564	-0.375	1e-04	PTEN_KILLIN	Hypomethylated in FP vs FN
cg10632525	0.312	0.564	-0.252	1e-04	MN1	Hypomethylated in FP vs FN
cg06551177	0.457	0.723	-0.266	1e-04	NA	Hypomethylated in FP vs FN
cg14620138	0.431	0.731	-0.300	1e-04	NA	Hypomethylated in FP vs FN
cg20314918	0.373	0.673	-0.300	1e-04	SCN2A	Hypomethylated in FP vs FN
cg22449370	0.369	0.619	-0.250	1e-04	NA	Hypomethylated in FP vs FN
cg16136262	0.295	0.565	-0.270	1e-04	NA	Hypomethylated in FP vs FN
cg04151278	0.127	0.409	-0.281	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03790988	0.240	0.497	-0.257	1e-04	NA	Hypomethylated in FP vs FN
cg12367539	0.352	0.610	-0.259	1e-04	NA	Hypomethylated in FP vs FN
cg21134096	0.287	0.655	-0.369	1e-04	RHEB	Hypomethylated in FP vs FN
cg00551910	0.469	0.740	-0.271	1e-04	C14orf162	Hypomethylated in FP vs FN
cg23705108	0.396	0.681	-0.285	1e-04	NA	Hypomethylated in FP vs FN
cg07122893	0.256	0.572	-0.317	1e-04	OLFML2B	Hypomethylated in FP vs FN
cg02583633	0.300	0.668	-0.369	1e-04	NA	Hypomethylated in FP vs FN
cg26480413	0.069	0.321	-0.252	1e-04	WDR93	Hypomethylated in FP vs FN
cg14968300	0.247	0.529	-0.281	1e-04	NA	Hypomethylated in FP vs FN
cg27415425	0.438	0.714	-0.276	1e-04	NA	Hypomethylated in FP vs FN
cg15645660	0.272	0.653	-0.380	1e-04	NA	Hypomethylated in FP vs FN
cg04497684	0.519	0.784	-0.265	1e-04	NA	Hypomethylated in FP vs FN
cg00548708	0.081	0.425	-0.344	1e-04	NA	Hypomethylated in FP vs FN
cg05518803	0.155	0.444	-0.289	1e-04	PSTK	Hypomethylated in FP vs FN
cg17795586	0.492	0.780	-0.288	1e-04	P2RY13	Hypomethylated in FP vs FN
cg09675542	0.374	0.645	-0.271	1e-04	NA	Hypomethylated in FP vs FN
cg14082061	0.483	0.741	-0.258	1e-04	NA	Hypomethylated in FP vs FN
cg12251828	0.382	0.642	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg05401764	0.223	0.615	-0.392	1e-04	NA	Hypomethylated in FP vs FN
cg06551997	0.204	0.534	-0.330	1e-04	NA	Hypomethylated in FP vs FN
cg26070540	0.300	0.644	-0.344	1e-04	COX4I2	Hypomethylated in FP vs FN
cg04621020	0.117	0.460	-0.343	1e-04	SLCO4C1	Hypomethylated in FP vs FN
cg25172185	0.327	0.608	-0.280	1e-04	NA	Hypomethylated in FP vs FN
cg25427880	0.212	0.467	-0.255	1e-04	NA	Hypomethylated in FP vs FN
cg04373334	0.259	0.559	-0.300	1e-04	FAT4	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20650515	0.433	0.748	-0.315	1e-04	NA	Hypomethylated in FP vs FN
cg05852040	0.084	0.377	-0.294	1e-04	NA	Hypomethylated in FP vs FN
cg23369632	0.302	0.585	-0.283	1e-04	NA	Hypomethylated in FP vs FN
cg15443732	0.264	0.525	-0.261	1e-04	GALR1	Hypomethylated in FP vs FN
cg27627803	0.259	0.551	-0.292	1e-04	NA	Hypomethylated in FP vs FN
cg01351327	0.403	0.691	-0.288	1e-04	NA	Hypomethylated in FP vs FN
cg14556188	0.581	0.844	-0.263	1e-04	NA	Hypomethylated in FP vs FN
cg18465945	0.318	0.585	-0.267	1e-04	NA	Hypomethylated in FP vs FN
cg20697025	0.105	0.372	-0.267	1e-04	NA	Hypomethylated in FP vs FN
cg00585714	0.275	0.549	-0.273	1e-04	NA	Hypomethylated in FP vs FN
cg09074856	0.388	0.709	-0.321	1e-04	NA	Hypomethylated in FP vs FN
cg05914537	0.479	0.754	-0.275	1e-04	NA	Hypomethylated in FP vs FN
cg21198550	0.214	0.495	-0.282	1e-04	NA	Hypomethylated in FP vs FN
cg22944499	0.240	0.566	-0.326	1e-04	LOC200726	Hypomethylated in FP vs FN
cg16049391	0.229	0.508	-0.279	1e-04	BNC1	Hypomethylated in FP vs FN
cg03052301	0.196	0.540	-0.344	1e-04	NA	Hypomethylated in FP vs FN
cg13258195	0.366	0.622	-0.255	1e-04	NA	Hypomethylated in FP vs FN
cg09636202	0.171	0.506	-0.335	1e-04	NA	Hypomethylated in FP vs FN
cg14655715	0.400	0.653	-0.253	1e-04	NA	Hypomethylated in FP vs FN
cg16901361	0.436	0.717	-0.280	1e-04	NA	Hypomethylated in FP vs FN
cg18608389	0.073	0.395	-0.322	1e-04	SPATA18	Hypomethylated in FP vs FN
cg02320454	0.194	0.558	-0.364	1e-04	GPR150	Hypomethylated in FP vs FN
cg10262052	0.319	0.604	-0.284	1e-04	IDO1	Hypomethylated in FP vs FN
cg08493776	0.217	0.532	-0.314	1e-04	PCDHB6	Hypomethylated in FP vs FN
cg24524285	0.189	0.505	-0.316	1e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15164708	0.244	0.561	-0.318	1e-04	NA	Hypomethylated in FP vs FN
cg22589161	0.247	0.627	-0.380	1e-04	RHEB	Hypomethylated in FP vs FN
cg27468419	0.430	0.699	-0.269	1e-04	SDR16C6	Hypomethylated in FP vs FN
cg18595065	0.430	0.735	-0.305	1e-04	NA	Hypomethylated in FP vs FN
cg04180428	0.210	0.551	-0.341	1e-04	NA	Hypomethylated in FP vs FN
cg03089717	0.155	0.438	-0.284	1e-04	NA	Hypomethylated in FP vs FN
cg24215459	0.268	0.580	-0.312	1e-04	NA	Hypomethylated in FP vs FN
cg18492126	0.350	0.706	-0.356	1e-04	NCAM2	Hypomethylated in FP vs FN
cg27478313	0.180	0.476	-0.296	1e-04	NA	Hypomethylated in FP vs FN
cg01157650	0.330	0.598	-0.267	1e-04	NA	Hypomethylated in FP vs FN
cg15495966	0.275	0.538	-0.263	1e-04	NA	Hypomethylated in FP vs FN
cg05471495	0.238	0.509	-0.271	1e-04	NA	Hypomethylated in FP vs FN
cg19759549	0.178	0.490	-0.311	1e-04	NA	Hypomethylated in FP vs FN
cg08506113	0.420	0.706	-0.286	1e-04	NA	Hypomethylated in FP vs FN
cg07690018	0.238	0.592	-0.353	1e-04	NA	Hypomethylated in FP vs FN
cg02094500	0.303	0.649	-0.346	1e-04	NA	Hypomethylated in FP vs FN
cg08825225	0.303	0.575	-0.271	1e-04	NA	Hypomethylated in FP vs FN
cg01556552	0.371	0.630	-0.258	1e-04	NA	Hypomethylated in FP vs FN
cg15720832	0.373	0.660	-0.287	1e-04	C1orf35	Hypomethylated in FP vs FN
cg00042478	0.550	0.808	-0.258	1e-04	NA	Hypomethylated in FP vs FN
cg11659942	0.183	0.464	-0.281	1e-04	NA	Hypomethylated in FP vs FN
cg18789958	0.148	0.455	-0.308	1e-04	NA	Hypomethylated in FP vs FN
cg00784153	0.376	0.637	-0.261	1e-04	NA	Hypomethylated in FP vs FN
cg18721838	0.267	0.565	-0.298	1e-04	NA	Hypomethylated in FP vs FN
cg09126090	0.301	0.608	-0.308	1e-04	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09969277	0.402	0.751	-0.349	1e-04	NA	Hypomethylated in FP vs FN
cg13587270	0.266	0.540	-0.273	1e-04	NA	Hypomethylated in FP vs FN
cg01994014	0.338	0.607	-0.269	1e-04	NA	Hypomethylated in FP vs FN
cg16832407	0.323	0.623	-0.300	1e-04	TRPM3	Hypomethylated in FP vs FN
cg01481989	0.210	0.517	-0.307	1e-04	FRZB	Hypomethylated in FP vs FN
cg00989365	0.405	0.696	-0.291	1e-04	NA	Hypomethylated in FP vs FN
cg25555753	0.240	0.494	-0.254	1e-04	NA	Hypomethylated in FP vs FN
cg02356551	0.116	0.482	-0.366	1e-04	NA	Hypomethylated in FP vs FN
cg05211192	0.402	0.662	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg10147875	0.553	0.815	-0.262	1e-04	NA	Hypomethylated in FP vs FN
cg05823218	0.200	0.464	-0.263	1e-04	NA	Hypomethylated in FP vs FN
cg01410316	0.409	0.707	-0.298	1e-04	NA	Hypomethylated in FP vs FN
cg13085403	0.355	0.627	-0.272	1e-04	NA	Hypomethylated in FP vs FN
cg13320585	0.411	0.707	-0.297	1e-04	MIR1252	Hypomethylated in FP vs FN
cg13173536	0.315	0.599	-0.284	1e-04	NA	Hypomethylated in FP vs FN
cg00091349	0.405	0.672	-0.266	1e-04	P2RY13	Hypomethylated in FP vs FN
cg00493422	0.189	0.467	-0.278	1e-04	HOPX	Hypomethylated in FP vs FN
cg20932898	0.302	0.553	-0.251	1e-04	NA	Hypomethylated in FP vs FN
cg11241627	0.196	0.465	-0.269	1e-04	FERD3L	Hypomethylated in FP vs FN
cg04096767	0.247	0.584	-0.337	1e-04	NA	Hypomethylated in FP vs FN
cg09851465	0.354	0.666	-0.312	1e-04	C1orf87	Hypomethylated in FP vs FN
cg14925024	0.457	0.729	-0.272	1e-04	C1orf35	Hypomethylated in FP vs FN
cg18841668	0.450	0.710	-0.260	1e-04	NA	Hypomethylated in FP vs FN
cg27011456	0.241	0.530	-0.289	1e-04	NA	Hypomethylated in FP vs FN
cg11628880	0.373	0.630	-0.257	1e-04	CLDN14	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04620418	0.140	0.420	-0.280	1e-04	NA	Hypomethylated in FP vs FN
cg12185828	0.090	0.441	-0.351	1e-04	GCA	Hypomethylated in FP vs FN
cg13050240	0.184	0.457	-0.274	1e-04	RIPK3	Hypomethylated in FP vs FN
cg01484266	0.571	0.824	-0.253	1e-04	NA	Hypomethylated in FP vs FN
cg23367608	0.132	0.435	-0.303	1e-04	FAM162B	Hypomethylated in FP vs FN
cg09305883	0.286	0.551	-0.265	1e-04	NA	Hypomethylated in FP vs FN
cg13709263	0.209	0.507	-0.298	1e-04	NA	Hypomethylated in FP vs FN
cg03873322	0.312	0.599	-0.287	1e-04	NA	Hypomethylated in FP vs FN
cg04552206	0.374	0.643	-0.269	1e-04	NA	Hypomethylated in FP vs FN
cg00695982	0.319	0.600	-0.281	1e-04	NA	Hypomethylated in FP vs FN
cg13804461	0.250	0.555	-0.305	1e-04	NA	Hypomethylated in FP vs FN
cg26160218	0.531	0.805	-0.274	2e-04	NA	Hypomethylated in FP vs FN
cg00988346	0.207	0.464	-0.256	2e-04	NA	Hypomethylated in FP vs FN
cg25813711	0.231	0.495	-0.264	2e-04	NA	Hypomethylated in FP vs FN
cg10967023	0.441	0.753	-0.312	2e-04	NA	Hypomethylated in FP vs FN
cg05221738	0.466	0.747	-0.282	2e-04	NA	Hypomethylated in FP vs FN
cg02560364	0.485	0.740	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg25691167	0.220	0.617	-0.397	2e-04	FERD3L	Hypomethylated in FP vs FN
cg18452695	0.426	0.694	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg07716052	0.407	0.676	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg21215576	0.407	0.691	-0.285	2e-04	NA	Hypomethylated in FP vs FN
cg17284804	0.186	0.547	-0.362	2e-04	TCTEX1D1	Hypomethylated in FP vs FN
cg13151171	0.357	0.651	-0.294	2e-04	MITF	Hypomethylated in FP vs FN
cg10767008	0.379	0.650	-0.272	2e-04	NA	Hypomethylated in FP vs FN
cg20200711	0.334	0.585	-0.251	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14583871	0.411	0.679	-0.269	2e-04	NA	Hypomethylated in FP vs FN
cg21266502	0.183	0.469	-0.287	2e-04	NA	Hypomethylated in FP vs FN
cg08278002	0.526	0.778	-0.252	2e-04	NA	Hypomethylated in FP vs FN
cg25961816	0.208	0.476	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg23529677	0.545	0.828	-0.283	2e-04	NA	Hypomethylated in FP vs FN
cg02415014	0.425	0.714	-0.289	2e-04	LYNX1	Hypomethylated in FP vs FN
cg04098051	0.268	0.592	-0.325	2e-04	NA	Hypomethylated in FP vs FN
cg26098117	0.342	0.647	-0.305	2e-04	NA	Hypomethylated in FP vs FN
cg10704673	0.296	0.556	-0.260	2e-04	NA	Hypomethylated in FP vs FN
cg06239355	0.126	0.451	-0.325	2e-04	NA	Hypomethylated in FP vs FN
cg17929068	0.239	0.547	-0.308	2e-04	NKX2-8	Hypomethylated in FP vs FN
cg03962019	0.317	0.568	-0.251	2e-04	NA	Hypomethylated in FP vs FN
cg24604417	0.426	0.738	-0.311	2e-04	NA	Hypomethylated in FP vs FN
cg27572072	0.397	0.662	-0.265	2e-04	NA	Hypomethylated in FP vs FN
cg00577449	0.289	0.654	-0.365	2e-04	NA	Hypomethylated in FP vs FN
cg15827031	0.176	0.513	-0.337	2e-04	NUP155	Hypomethylated in FP vs FN
cg00301159	0.362	0.680	-0.318	2e-04	C3orf55	Hypomethylated in FP vs FN
cg03953704	0.273	0.590	-0.316	2e-04	NA	Hypomethylated in FP vs FN
cg21579274	0.400	0.696	-0.296	2e-04	NA	Hypomethylated in FP vs FN
cg00961866	0.197	0.500	-0.303	2e-04	NA	Hypomethylated in FP vs FN
cg20264543	0.205	0.498	-0.293	2e-04	NA	Hypomethylated in FP vs FN
cg23743554	0.504	0.772	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg21749556	0.391	0.653	-0.261	2e-04	NA	Hypomethylated in FP vs FN
cg05774229	0.218	0.512	-0.294	2e-04	NA	Hypomethylated in FP vs FN
cg02639366	0.411	0.667	-0.256	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01576142	0.390	0.647	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg17825770	0.603	0.869	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg01844642	0.238	0.497	-0.259	2e-04	GPR62	Hypomethylated in FP vs FN
cg13758054	0.396	0.654	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg24011260	0.103	0.432	-0.329	2e-04	DPP6	Hypomethylated in FP vs FN
cg17557357	0.275	0.606	-0.331	2e-04	PCDHGB1	Hypomethylated in FP vs FN
cg19354656	0.484	0.736	-0.253	2e-04	IGSF9	Hypomethylated in FP vs FN
cg08653021	0.523	0.810	-0.287	2e-04	NA	Hypomethylated in FP vs FN
cg03752741	0.302	0.552	-0.251	2e-04	NA	Hypomethylated in FP vs FN
cg13750214	0.310	0.671	-0.360	2e-04	NA	Hypomethylated in FP vs FN
cg22433285	0.076	0.357	-0.281	2e-04	NUP155	Hypomethylated in FP vs FN
cg02402458	0.497	0.769	-0.272	2e-04	NA	Hypomethylated in FP vs FN
cg16342115	0.263	0.543	-0.281	2e-04	KLHL14	Hypomethylated in FP vs FN
cg09494378	0.344	0.619	-0.275	2e-04	NA	Hypomethylated in FP vs FN
cg09393254	0.215	0.529	-0.314	2e-04	MCHR2	Hypomethylated in FP vs FN
cg17293161	0.236	0.519	-0.283	2e-04	NA	Hypomethylated in FP vs FN
cg00215182	0.276	0.536	-0.259	2e-04	C1QB	Hypomethylated in FP vs FN
cg05487589	0.203	0.513	-0.311	2e-04	NA	Hypomethylated in FP vs FN
cg02181594	0.326	0.603	-0.277	2e-04	NA	Hypomethylated in FP vs FN
cg19415383	0.386	0.662	-0.276	2e-04	DSG1	Hypomethylated in FP vs FN
cg00113117	0.470	0.744	-0.274	2e-04	NA	Hypomethylated in FP vs FN
cg22467594	0.363	0.652	-0.290	2e-04	NA	Hypomethylated in FP vs FN
cg05883874	0.098	0.410	-0.312	2e-04	NLRP14	Hypomethylated in FP vs FN
cg05315633	0.334	0.638	-0.305	2e-04	NA	Hypomethylated in FP vs FN
cg05862393	0.530	0.787	-0.257	2e-04	SLC5A12	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24930713	0.397	0.660	-0.263	2e-04	NA	Hypomethylated in FP vs FN
cg15300856	0.151	0.404	-0.253	2e-04	CBS	Hypomethylated in FP vs FN
cg21275967	0.255	0.612	-0.357	2e-04	ATF7IP	Hypomethylated in FP vs FN
cg05209514	0.260	0.520	-0.259	2e-04	NA	Hypomethylated in FP vs FN
cg26000462	0.265	0.565	-0.301	2e-04	NA	Hypomethylated in FP vs FN
cg06138714	0.369	0.673	-0.305	2e-04	NA	Hypomethylated in FP vs FN
cg18514922	0.189	0.565	-0.376	2e-04	LY75	Hypomethylated in FP vs FN
cg02746725	0.094	0.379	-0.284	2e-04	NA	Hypomethylated in FP vs FN
cg06159181	0.374	0.628	-0.254	2e-04	NA	Hypomethylated in FP vs FN
cg15323871	0.471	0.732	-0.261	2e-04	C14orf38	Hypomethylated in FP vs FN
cg21303745	0.471	0.739	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg07077013	0.347	0.678	-0.330	2e-04	NA	Hypomethylated in FP vs FN
cg21691166	0.200	0.546	-0.345	2e-04	NA	Hypomethylated in FP vs FN
cg16002818	0.210	0.489	-0.279	2e-04	BOLL	Hypomethylated in FP vs FN
cg01696784	0.229	0.517	-0.287	2e-04	NA	Hypomethylated in FP vs FN
cg04832177	0.299	0.623	-0.324	2e-04	NA	Hypomethylated in FP vs FN
cg03352173	0.420	0.681	-0.261	2e-04	SLC9A10	Hypomethylated in FP vs FN
cg12593223	0.223	0.584	-0.361	2e-04	NA	Hypomethylated in FP vs FN
cg08641973	0.437	0.761	-0.324	2e-04	NA	Hypomethylated in FP vs FN
cg07755390	0.093	0.424	-0.330	2e-04	SLC12A8	Hypomethylated in FP vs FN
cg18671554	0.412	0.672	-0.260	2e-04	NA	Hypomethylated in FP vs FN
cg11377136	0.392	0.728	-0.336	2e-04	PKDREJ	Hypomethylated in FP vs FN
cg05644602	0.490	0.743	-0.253	2e-04	NA	Hypomethylated in FP vs FN
cg27071152	0.269	0.608	-0.339	2e-04	NA	Hypomethylated in FP vs FN
cg04830440	0.395	0.683	-0.288	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23093754	0.229	0.492	-0.263	2e-04	GNMT	Hypomethylated in FP vs FN
cg08205700	0.364	0.719	-0.355	2e-04	NA	Hypomethylated in FP vs FN
cg13245539	0.463	0.714	-0.251	2e-04	MIR33B	Hypomethylated in FP vs FN
cg24185926	0.461	0.753	-0.292	2e-04	NA	Hypomethylated in FP vs FN
cg00602115	0.434	0.712	-0.278	2e-04	NA	Hypomethylated in FP vs FN
cg03346025	0.435	0.708	-0.273	2e-04	IL28B	Hypomethylated in FP vs FN
cg07777790	0.108	0.393	-0.285	2e-04	ACTA1	Hypomethylated in FP vs FN
cg14010366	0.143	0.418	-0.275	2e-04	RHEB	Hypomethylated in FP vs FN
cg04908380	0.248	0.587	-0.339	2e-04	NA	Hypomethylated in FP vs FN
cg09895325	0.442	0.742	-0.300	2e-04	SRRM1	Hypomethylated in FP vs FN
cg07800208	0.352	0.648	-0.296	2e-04	NA	Hypomethylated in FP vs FN
cg05922610	0.287	0.559	-0.271	2e-04	NA	Hypomethylated in FP vs FN
cg04324666	0.256	0.524	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg20933109	0.165	0.416	-0.251	2e-04	NA	Hypomethylated in FP vs FN
cg10310274	0.385	0.676	-0.292	2e-04	NA	Hypomethylated in FP vs FN
cg13079429	0.321	0.602	-0.280	2e-04	NA	Hypomethylated in FP vs FN
cg16398329	0.057	0.395	-0.339	2e-04	NA	Hypomethylated in FP vs FN
cg05928362	0.159	0.520	-0.361	2e-04	NA	Hypomethylated in FP vs FN
cg12119111	0.039	0.304	-0.265	2e-04	NHLRC1	Hypomethylated in FP vs FN
cg08305436	0.217	0.597	-0.380	2e-04	NA	Hypomethylated in FP vs FN
cg09860781	0.162	0.419	-0.257	2e-04	NPM2	Hypomethylated in FP vs FN
cg04015361	0.360	0.644	-0.284	2e-04	NA	Hypomethylated in FP vs FN
cg09447895	0.432	0.693	-0.261	2e-04	NA	Hypomethylated in FP vs FN
cg16956501	0.264	0.622	-0.358	2e-04	PHF11	Hypomethylated in FP vs FN
cg02919799	0.160	0.422	-0.262	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02280348	0.478	0.747	-0.269	2e-04	NA	Hypomethylated in FP vs FN
cg15077070	0.313	0.609	-0.297	2e-04	IL1RL2	Hypomethylated in FP vs FN
cg24504927	0.291	0.709	-0.418	2e-04	NA	Hypomethylated in FP vs FN
cg01778908	0.451	0.724	-0.273	2e-04	NA	Hypomethylated in FP vs FN
cg24914139	0.516	0.769	-0.253	2e-04	NA	Hypomethylated in FP vs FN
cg10818657	0.370	0.639	-0.269	2e-04	NA	Hypomethylated in FP vs FN
cg08587845	0.189	0.469	-0.280	2e-04	NEUROG1	Hypomethylated in FP vs FN
cg10632765	0.518	0.800	-0.282	2e-04	NA	Hypomethylated in FP vs FN
cg13381984	0.404	0.732	-0.329	2e-04	LEP	Hypomethylated in FP vs FN
cg21869219	0.496	0.767	-0.271	2e-04	NA	Hypomethylated in FP vs FN
cg22221025	0.318	0.625	-0.307	2e-04	NA	Hypomethylated in FP vs FN
cg18589504	0.452	0.721	-0.269	2e-04	NA	Hypomethylated in FP vs FN
cg18450582	0.488	0.769	-0.282	2e-04	NA	Hypomethylated in FP vs FN
cg08303612	0.132	0.389	-0.256	2e-04	NA	Hypomethylated in FP vs FN
cg00501242	0.299	0.550	-0.251	2e-04	NA	Hypomethylated in FP vs FN
cg21658372	0.594	0.852	-0.258	2e-04	NTN5	Hypomethylated in FP vs FN
cg00650176	0.189	0.476	-0.287	2e-04	C9orf135	Hypomethylated in FP vs FN
cg18093120	0.403	0.687	-0.284	2e-04	MLC1	Hypomethylated in FP vs FN
cg17673691	0.429	0.695	-0.265	2e-04	NA	Hypomethylated in FP vs FN
cg12914733	0.371	0.659	-0.288	2e-04	NA	Hypomethylated in FP vs FN
cg15769343	0.362	0.633	-0.271	2e-04	NA	Hypomethylated in FP vs FN
cg09973284	0.300	0.662	-0.363	2e-04	NA	Hypomethylated in FP vs FN
cg24378048	0.141	0.460	-0.319	2e-04	SWAP70	Hypomethylated in FP vs FN
cg23560159	0.179	0.454	-0.275	2e-04	NA	Hypomethylated in FP vs FN
cg19585597	0.249	0.583	-0.335	2e-04	LOC134466	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20337093	0.257	0.522	-0.265	2e-04	KILLIN	Hypomethylated in FP vs FN
cg12286516	0.156	0.414	-0.258	2e-04	NA	Hypomethylated in FP vs FN
cg16412460	0.464	0.734	-0.270	2e-04	NA	Hypomethylated in FP vs FN
cg00735329	0.309	0.577	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg09962377	0.462	0.738	-0.276	2e-04	NA	Hypomethylated in FP vs FN
cg18104148	0.483	0.743	-0.260	2e-04	NA	Hypomethylated in FP vs FN
cg18009000	0.406	0.660	-0.254	2e-04	H2AFY2	Hypomethylated in FP vs FN
cg08101303	0.175	0.445	-0.270	2e-04	NA	Hypomethylated in FP vs FN
cg02827007	0.377	0.651	-0.275	2e-04	NA	Hypomethylated in FP vs FN
cg05767421	0.373	0.634	-0.261	2e-04	NA	Hypomethylated in FP vs FN
cg16052975	0.428	0.744	-0.316	2e-04	NA	Hypomethylated in FP vs FN
cg20310894	0.247	0.601	-0.353	2e-04	NA	Hypomethylated in FP vs FN
cg18839750	0.428	0.683	-0.255	2e-04	PCDHGA3	Hypomethylated in FP vs FN
cg15135047	0.166	0.473	-0.308	2e-04	NA	Hypomethylated in FP vs FN
cg25416153	0.122	0.505	-0.383	2e-04	NA	Hypomethylated in FP vs FN
cg00576108	0.383	0.650	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg02363969	0.359	0.621	-0.261	2e-04	SBK2	Hypomethylated in FP vs FN
cg11796442	0.508	0.787	-0.280	2e-04	NA	Hypomethylated in FP vs FN
cg17701035	0.387	0.638	-0.251	2e-04	CLEC17A	Hypomethylated in FP vs FN
cg03374820	0.339	0.640	-0.301	2e-04	NA	Hypomethylated in FP vs FN
cg26551026	0.336	0.625	-0.288	2e-04	NA	Hypomethylated in FP vs FN
cg04680494	0.361	0.681	-0.320	2e-04	KIF25	Hypomethylated in FP vs FN
cg03468463	0.514	0.789	-0.275	2e-04	NA	Hypomethylated in FP vs FN
cg17827148	0.401	0.671	-0.270	2e-04	NA	Hypomethylated in FP vs FN
cg25935911	0.231	0.505	-0.274	2e-04	DBC1	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12651953	0.489	0.756	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg02096790	0.530	0.780	-0.250	2e-04	NA	Hypomethylated in FP vs FN
cg22490861	0.294	0.610	-0.316	2e-04	HEBP1	Hypomethylated in FP vs FN
cg03521812	0.349	0.628	-0.279	2e-04	NA	Hypomethylated in FP vs FN
cg06261937	0.138	0.434	-0.296	2e-04	DCC	Hypomethylated in FP vs FN
cg07582845	0.189	0.560	-0.371	2e-04	TPD52L1	Hypomethylated in FP vs FN
cg08781728	0.318	0.653	-0.335	2e-04	NA	Hypomethylated in FP vs FN
cg10415314	0.445	0.713	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg16758598	0.340	0.622	-0.282	2e-04	NA	Hypomethylated in FP vs FN
cg19818998	0.173	0.523	-0.349	2e-04	NA	Hypomethylated in FP vs FN
cg09157302	0.327	0.661	-0.334	2e-04	SLC34A2	Hypomethylated in FP vs FN
cg08036309	0.247	0.539	-0.291	2e-04	NA	Hypomethylated in FP vs FN
cg22356726	0.398	0.732	-0.335	2e-04	NA	Hypomethylated in FP vs FN
cg06311422	0.205	0.486	-0.281	2e-04	NA	Hypomethylated in FP vs FN
cg09095222	0.260	0.560	-0.301	2e-04	NA	Hypomethylated in FP vs FN
cg10906284	0.143	0.453	-0.311	2e-04	AVPR1A	Hypomethylated in FP vs FN
cg13632752	0.502	0.767	-0.265	2e-04	NA	Hypomethylated in FP vs FN
cg17740401	0.308	0.558	-0.250	2e-04	NA	Hypomethylated in FP vs FN
cg23416002	0.294	0.586	-0.291	2e-04	NA	Hypomethylated in FP vs FN
cg06610484	0.177	0.497	-0.320	2e-04	MCHR2	Hypomethylated in FP vs FN
cg20959780	0.165	0.439	-0.274	2e-04	NA	Hypomethylated in FP vs FN
cg08479073	0.279	0.555	-0.276	2e-04	IL20	Hypomethylated in FP vs FN
cg00018606	0.309	0.610	-0.301	2e-04	CRYGD	Hypomethylated in FP vs FN
cg12517027	0.409	0.695	-0.286	2e-04	NA	Hypomethylated in FP vs FN
cg03652525	0.274	0.578	-0.304	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17103088	0.524	0.779	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg09783457	0.375	0.693	-0.318	2e-04	NA	Hypomethylated in FP vs FN
cg12590430	0.349	0.676	-0.327	2e-04	NA	Hypomethylated in FP vs FN
cg22946147	0.273	0.569	-0.296	2e-04	MGC26647	Hypomethylated in FP vs FN
cg07694025	0.191	0.503	-0.312	2e-04	NA	Hypomethylated in FP vs FN
cg26128079	0.119	0.369	-0.250	2e-04	NA	Hypomethylated in FP vs FN
cg15718663	0.403	0.681	-0.278	2e-04	OSBPL5	Hypomethylated in FP vs FN
cg14602234	0.286	0.566	-0.279	2e-04	NA	Hypomethylated in FP vs FN
cg12092579	0.416	0.733	-0.317	2e-04	NA	Hypomethylated in FP vs FN
cg08946854	0.306	0.585	-0.279	2e-04	NA	Hypomethylated in FP vs FN
cg22796507	0.120	0.436	-0.316	2e-04	FOXE3	Hypomethylated in FP vs FN
cg23690166	0.102	0.465	-0.363	2e-04	MIR196A1	Hypomethylated in FP vs FN
cg22768487	0.286	0.591	-0.305	2e-04	NA	Hypomethylated in FP vs FN
cg12911256	0.287	0.651	-0.364	2e-04	RNF207	Hypomethylated in FP vs FN
cg23924306	0.415	0.696	-0.281	2e-04	NA	Hypomethylated in FP vs FN
cg03467027	0.118	0.415	-0.297	2e-04	C4orf37	Hypomethylated in FP vs FN
cg23800435	0.423	0.697	-0.274	2e-04	C1orf210	Hypomethylated in FP vs FN
cg08608780	0.364	0.651	-0.287	2e-04	NA	Hypomethylated in FP vs FN
cg05215481	0.356	0.631	-0.275	2e-04	NA	Hypomethylated in FP vs FN
cg25320388	0.275	0.558	-0.283	2e-04	NA	Hypomethylated in FP vs FN
cg01523712	0.462	0.729	-0.268	2e-04	NA	Hypomethylated in FP vs FN
cg17342064	0.165	0.520	-0.355	2e-04	NA	Hypomethylated in FP vs FN
cg09680447	0.252	0.541	-0.289	2e-04	NA	Hypomethylated in FP vs FN
cg18018990	0.298	0.572	-0.274	2e-04	NA	Hypomethylated in FP vs FN
cg20893579	0.347	0.606	-0.259	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07639489	0.266	0.574	-0.308	2e-04	NA	Hypomethylated in FP vs FN
cg07709358	0.383	0.640	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg18378453	0.101	0.453	-0.352	2e-04	NA	Hypomethylated in FP vs FN
cg17083494	0.430	0.710	-0.279	2e-04	DLX5	Hypomethylated in FP vs FN
cg08269275	0.449	0.714	-0.264	2e-04	NA	Hypomethylated in FP vs FN
cg02759903	0.447	0.707	-0.260	2e-04	NA	Hypomethylated in FP vs FN
cg10812717	0.410	0.686	-0.276	2e-04	ERMN	Hypomethylated in FP vs FN
cg08415391	0.507	0.787	-0.280	2e-04	NA	Hypomethylated in FP vs FN
cg15036160	0.473	0.770	-0.297	2e-04	NA	Hypomethylated in FP vs FN
cg02530375	0.155	0.436	-0.281	2e-04	NA	Hypomethylated in FP vs FN
cg15168727	0.178	0.526	-0.348	2e-04	NA	Hypomethylated in FP vs FN
cg10969178	0.459	0.725	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg23509344	0.141	0.412	-0.271	2e-04	NA	Hypomethylated in FP vs FN
cg07965110	0.272	0.541	-0.269	2e-04	NA	Hypomethylated in FP vs FN
cg19004771	0.498	0.753	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg21585138	0.321	0.608	-0.286	2e-04	NA	Hypomethylated in FP vs FN
cg22558061	0.398	0.691	-0.292	2e-04	NA	Hypomethylated in FP vs FN
cg26160626	0.171	0.435	-0.264	2e-04	NA	Hypomethylated in FP vs FN
cg25082959	0.069	0.374	-0.304	2e-04	NA	Hypomethylated in FP vs FN
cg04620015	0.161	0.466	-0.305	2e-04	FLJ11235	Hypomethylated in FP vs FN
cg23494015	0.277	0.586	-0.309	2e-04	C14orf38	Hypomethylated in FP vs FN
cg27305383	0.317	0.583	-0.266	2e-04	HOPX	Hypomethylated in FP vs FN
cg05749855	0.568	0.841	-0.273	2e-04	NA	Hypomethylated in FP vs FN
cg16537367	0.384	0.669	-0.285	2e-04	NA	Hypomethylated in FP vs FN
cg16545749	0.546	0.826	-0.280	2e-04	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13839563	0.352	0.662	-0.311	2e-04	NA	Hypomethylated in FP vs FN
cg20377305	0.177	0.554	-0.377	2e-04	NA	Hypomethylated in FP vs FN
cg11347582	0.547	0.850	-0.303	2e-04	NA	Hypomethylated in FP vs FN
cg07499553	0.394	0.679	-0.284	2e-04	LOC134466	Hypomethylated in FP vs FN
cg02682520	0.257	0.530	-0.273	2e-04	NA	Hypomethylated in FP vs FN
cg11826726	0.293	0.601	-0.308	2e-04	NA	Hypomethylated in FP vs FN
cg01743370	0.106	0.435	-0.329	2e-04	NA	Hypomethylated in FP vs FN
cg09233651	0.456	0.739	-0.284	2e-04	NA	Hypomethylated in FP vs FN
cg08508368	0.219	0.503	-0.284	2e-04	CA13	Hypomethylated in FP vs FN
cg18286501	0.261	0.567	-0.306	2e-04	TMEM26	Hypomethylated in FP vs FN
cg05854601	0.456	0.734	-0.278	2e-04	NA	Hypomethylated in FP vs FN
cg10673134	0.486	0.745	-0.259	2e-04	NA	Hypomethylated in FP vs FN
cg02741440	0.175	0.468	-0.293	2e-04	NA	Hypomethylated in FP vs FN
cg12158488	0.258	0.510	-0.253	2e-04	NA	Hypomethylated in FP vs FN
cg06080026	0.433	0.686	-0.253	2e-04	NA	Hypomethylated in FP vs FN
cg22651812	0.387	0.644	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg03349953	0.391	0.651	-0.259	2e-04	PCDHB5	Hypomethylated in FP vs FN
cg02980621	0.506	0.784	-0.278	2e-04	NA	Hypomethylated in FP vs FN
cg18950778	0.300	0.639	-0.339	2e-04	NA	Hypomethylated in FP vs FN
cg04058281	0.365	0.643	-0.279	2e-04	NA	Hypomethylated in FP vs FN
cg13189671	0.563	0.835	-0.272	2e-04	NA	Hypomethylated in FP vs FN
cg06783102	0.502	0.758	-0.256	2e-04	NA	Hypomethylated in FP vs FN
cg10514097	0.109	0.409	-0.300	2e-04	FOXF1	Hypomethylated in FP vs FN
cg07513768	0.291	0.588	-0.297	2e-04	RPLP1	Hypomethylated in FP vs FN
cg13186884	0.225	0.556	-0.331	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02589568	0.445	0.697	-0.253	2e-04	NA	Hypomethylated in FP vs FN
cg14523847	0.251	0.586	-0.335	2e-04	DPP6	Hypomethylated in FP vs FN
cg25504884	0.429	0.707	-0.278	2e-04	NA	Hypomethylated in FP vs FN
cg10659886	0.179	0.534	-0.355	2e-04	ZSCAN18	Hypomethylated in FP vs FN
cg19789919	0.359	0.670	-0.311	2e-04	ATF7IP	Hypomethylated in FP vs FN
cg17216080	0.363	0.624	-0.261	2e-04	NA	Hypomethylated in FP vs FN
cg03638905	0.270	0.599	-0.329	2e-04	NA	Hypomethylated in FP vs FN
cg04006061	0.415	0.732	-0.318	2e-04	NA	Hypomethylated in FP vs FN
cg26337868	0.484	0.750	-0.266	2e-04	RND3	Hypomethylated in FP vs FN
cg21379458	0.469	0.736	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg14162906	0.368	0.619	-0.251	2e-04	TMEM222	Hypomethylated in FP vs FN
cg04190875	0.342	0.636	-0.294	2e-04	NA	Hypomethylated in FP vs FN
cg23004160	0.305	0.668	-0.363	2e-04	NA	Hypomethylated in FP vs FN
cg02147681	0.307	0.668	-0.361	2e-04	NA	Hypomethylated in FP vs FN
cg24576535	0.377	0.716	-0.339	2e-04	NA	Hypomethylated in FP vs FN
cg14851608	0.386	0.646	-0.260	2e-04	ZBTB40	Hypomethylated in FP vs FN
cg11902408	0.267	0.540	-0.273	2e-04	FGD5	Hypomethylated in FP vs FN
cg24426405	0.297	0.567	-0.270	2e-04	AGR2	Hypomethylated in FP vs FN
cg15541583	0.361	0.612	-0.251	2e-04	SLC9A10	Hypomethylated in FP vs FN
cg04794141	0.237	0.504	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg06159353	0.386	0.686	-0.300	2e-04	NA	Hypomethylated in FP vs FN
cg22169866	0.465	0.721	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg24922129	0.312	0.650	-0.338	2e-04	NA	Hypomethylated in FP vs FN
cg27083484	0.416	0.699	-0.283	2e-04	NA	Hypomethylated in FP vs FN
cg16546376	0.404	0.690	-0.286	2e-04	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

<b>Probe</b>	<b>FP.mean</b>	<b>FN.mean</b>	<b>Mean.diff</b>	<b>Adjusted.P.value</b>	<b>Promoter.related.gene</b>	<b>Category</b>
cg19916740	0.207	0.506	-0.299	2e-04	NA	Hypomethylated in FP vs FN
cg24945701	0.385	0.717	-0.332	2e-04	NA	Hypomethylated in FP vs FN
cg11227598	0.465	0.722	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg11782208	0.464	0.723	-0.260	2e-04	C1orf170	Hypomethylated in FP vs FN
cg14027333	0.351	0.652	-0.301	2e-04	NA	Hypomethylated in FP vs FN
cg15698299	0.329	0.595	-0.266	2e-04	NA	Hypomethylated in FP vs FN
cg05483176	0.334	0.626	-0.292	2e-04	NA	Hypomethylated in FP vs FN
cg17845732	0.404	0.666	-0.262	2e-04	NA	Hypomethylated in FP vs FN
cg05757907	0.352	0.630	-0.278	2e-04	NA	Hypomethylated in FP vs FN
cg04547002	0.313	0.611	-0.298	2e-04	NA	Hypomethylated in FP vs FN
cg13448978	0.438	0.766	-0.327	2e-04	FGR	Hypomethylated in FP vs FN
cg26292150	0.317	0.608	-0.291	2e-04	NA	Hypomethylated in FP vs FN
cg22489153	0.161	0.483	-0.322	2e-04	NA	Hypomethylated in FP vs FN
cg04751558	0.279	0.584	-0.305	2e-04	NA	Hypomethylated in FP vs FN
cg26860613	0.297	0.553	-0.256	2e-04	NA	Hypomethylated in FP vs FN
cg03677056	0.265	0.545	-0.279	2e-04	NA	Hypomethylated in FP vs FN
cg22316614	0.338	0.707	-0.369	2e-04	NA	Hypomethylated in FP vs FN
cg12141218	0.249	0.507	-0.258	2e-04	NA	Hypomethylated in FP vs FN
cg06646708	0.559	0.811	-0.252	2e-04	NHLRC1	Hypomethylated in FP vs FN
cg19632236	0.288	0.545	-0.257	2e-04	KIAA0947	Hypomethylated in FP vs FN
cg14826683	0.409	0.682	-0.273	2e-04	SPRR2D	Hypomethylated in FP vs FN
cg23526504	0.370	0.621	-0.252	2e-04	NA	Hypomethylated in FP vs FN
cg11074070	0.384	0.681	-0.297	2e-04	NA	Hypomethylated in FP vs FN
cg01211763	0.417	0.694	-0.277	2e-04	NA	Hypomethylated in FP vs FN
cg08737836	0.198	0.452	-0.254	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09360044	0.352	0.638	-0.286	2e-04	NA	Hypomethylated in FP vs FN
cg07287724	0.217	0.505	-0.289	2e-04	NA	Hypomethylated in FP vs FN
cg06822340	0.476	0.731	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg03642472	0.402	0.672	-0.270	2e-04	NA	Hypomethylated in FP vs FN
cg23843705	0.288	0.550	-0.262	2e-04	NA	Hypomethylated in FP vs FN
cg03839794	0.352	0.707	-0.355	2e-04	NA	Hypomethylated in FP vs FN
cg02402024	0.231	0.500	-0.270	2e-04	NA	Hypomethylated in FP vs FN
cg00059246	0.376	0.638	-0.261	2e-04	NA	Hypomethylated in FP vs FN
cg22531904	0.105	0.407	-0.302	2e-04	NA	Hypomethylated in FP vs FN
cg16320249	0.202	0.520	-0.318	2e-04	NA	Hypomethylated in FP vs FN
cg03241649	0.088	0.344	-0.256	2e-04	NA	Hypomethylated in FP vs FN
cg03064914	0.392	0.647	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg26579578	0.574	0.882	-0.308	2e-04	NA	Hypomethylated in FP vs FN
cg01497613	0.151	0.445	-0.294	2e-04	NA	Hypomethylated in FP vs FN
cg02280532	0.197	0.616	-0.419	2e-04	LY75	Hypomethylated in FP vs FN
cg13678973	0.108	0.460	-0.353	2e-04	NA	Hypomethylated in FP vs FN
cg02861260	0.533	0.800	-0.267	2e-04	NA	Hypomethylated in FP vs FN
cg22505086	0.207	0.459	-0.252	2e-04	NA	Hypomethylated in FP vs FN
cg08484506	0.392	0.666	-0.274	2e-04	NA	Hypomethylated in FP vs FN
cg03164761	0.125	0.458	-0.333	2e-04	NA	Hypomethylated in FP vs FN
cg10160807	0.339	0.602	-0.262	2e-04	NA	Hypomethylated in FP vs FN
cg20055426	0.217	0.531	-0.314	2e-04	NA	Hypomethylated in FP vs FN
cg24914848	0.424	0.695	-0.272	2e-04	NA	Hypomethylated in FP vs FN
cg20690922	0.338	0.607	-0.268	2e-04	RHBDF2	Hypomethylated in FP vs FN
cg03671191	0.041	0.345	-0.304	2e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27514608	0.254	0.539	-0.285	2e-04	PPARGC1A	Hypomethylated in FP vs FN
cg11717507	0.298	0.600	-0.302	2e-04	NA	Hypomethylated in FP vs FN
cg13195955	0.286	0.541	-0.255	2e-04	NA	Hypomethylated in FP vs FN
cg10593028	0.453	0.706	-0.253	2e-04	EXPH5	Hypomethylated in FP vs FN
cg10894441	0.134	0.458	-0.324	2e-04	C11orf93	Hypomethylated in FP vs FN
cg12899614	0.560	0.813	-0.254	2e-04	NA	Hypomethylated in FP vs FN
cg08552042	0.160	0.484	-0.323	2e-04	MMP15	Hypomethylated in FP vs FN
cg07046047	0.358	0.670	-0.312	2e-04	NA	Hypomethylated in FP vs FN
cg17683775	0.460	0.713	-0.253	2e-04	PTGES	Hypomethylated in FP vs FN
cg05062323	0.136	0.394	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg05658887	0.118	0.407	-0.289	2e-04	NA	Hypomethylated in FP vs FN
cg11594811	0.363	0.621	-0.257	2e-04	NA	Hypomethylated in FP vs FN
cg15652178	0.177	0.475	-0.298	2e-04	NA	Hypomethylated in FP vs FN
cg20531550	0.365	0.666	-0.302	2e-04	KCP	Hypomethylated in FP vs FN
cg10552106	0.320	0.619	-0.300	2e-04	IGSF10	Hypomethylated in FP vs FN
cg16812626	0.454	0.717	-0.263	2e-04	NA	Hypomethylated in FP vs FN
cg03943115	0.232	0.523	-0.292	2e-04	SPRR2D	Hypomethylated in FP vs FN
cg12046602	0.303	0.637	-0.333	2e-04	NA	Hypomethylated in FP vs FN
cg24792289	0.243	0.616	-0.372	2e-04	NA	Hypomethylated in FP vs FN
cg01433654	0.263	0.513	-0.251	2e-04	NA	Hypomethylated in FP vs FN
cg15628917	0.202	0.534	-0.333	2e-04	C1orf87	Hypomethylated in FP vs FN
cg18255353	0.233	0.612	-0.379	2e-04	NA	Hypomethylated in FP vs FN
cg01711746	0.189	0.479	-0.289	2e-04	NA	Hypomethylated in FP vs FN
cg11267955	0.146	0.491	-0.345	2e-04	SLCO4C1	Hypomethylated in FP vs FN
cg10132917	0.430	0.698	-0.268	2e-04	AQP1	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11257429	0.196	0.484	-0.288	2e-04	NA	Hypomethylated in FP vs FN
cg26717009	0.215	0.510	-0.294	2e-04	GJA3	Hypomethylated in FP vs FN
cg02245998	0.251	0.510	-0.259	2e-04	NA	Hypomethylated in FP vs FN
cg23536473	0.295	0.636	-0.341	2e-04	FERD3L	Hypomethylated in FP vs FN
cg11189177	0.407	0.657	-0.250	3e-04	NA	Hypomethylated in FP vs FN
cg20556988	0.419	0.698	-0.279	3e-04	CCL1	Hypomethylated in FP vs FN
cg08370430	0.493	0.746	-0.253	3e-04	NA	Hypomethylated in FP vs FN
cg18099070	0.380	0.688	-0.308	3e-04	NA	Hypomethylated in FP vs FN
cg09397293	0.484	0.735	-0.250	3e-04	NA	Hypomethylated in FP vs FN
cg12486533	0.209	0.507	-0.297	3e-04	BMP1	Hypomethylated in FP vs FN
cg09651522	0.317	0.632	-0.316	3e-04	NA	Hypomethylated in FP vs FN
cg09484039	0.083	0.338	-0.255	3e-04	FRZB	Hypomethylated in FP vs FN
cg23192824	0.538	0.800	-0.262	3e-04	NA	Hypomethylated in FP vs FN
cg09121339	0.181	0.452	-0.271	3e-04	NA	Hypomethylated in FP vs FN
cg16140179	0.401	0.680	-0.279	3e-04	SPERT	Hypomethylated in FP vs FN
cg00329770	0.448	0.709	-0.261	3e-04	NA	Hypomethylated in FP vs FN
cg07612768	0.349	0.679	-0.329	3e-04	NA	Hypomethylated in FP vs FN
cg14144025	0.220	0.497	-0.277	3e-04	NA	Hypomethylated in FP vs FN
cg00111978	0.412	0.673	-0.262	3e-04	IL18R1	Hypomethylated in FP vs FN
cg07241457	0.350	0.642	-0.291	3e-04	NA	Hypomethylated in FP vs FN
cg15160198	0.143	0.507	-0.364	3e-04	CYP7B1	Hypomethylated in FP vs FN
cg03101413	0.492	0.766	-0.274	3e-04	NA	Hypomethylated in FP vs FN
cg07869839	0.290	0.576	-0.286	3e-04	NA	Hypomethylated in FP vs FN
cg16899444	0.380	0.670	-0.290	3e-04	NA	Hypomethylated in FP vs FN
cg04671145	0.453	0.779	-0.326	3e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg11412468	0.220	0.516	-0.296	3e-04	NA	Hypomethylated in FP vs FN
cg22897615	0.531	0.811	-0.280	3e-04	NA	Hypomethylated in FP vs FN
cg14375387	0.210	0.590	-0.380	3e-04	TPD52L1	Hypomethylated in FP vs FN
cg11254700	0.183	0.556	-0.372	3e-04	NA	Hypomethylated in FP vs FN
cg27309110	0.304	0.567	-0.264	3e-04	NA	Hypomethylated in FP vs FN
cg13213799	0.289	0.594	-0.305	3e-04	NA	Hypomethylated in FP vs FN
cg23510131	0.383	0.639	-0.256	3e-04	NA	Hypomethylated in FP vs FN
cg00655147	0.421	0.677	-0.256	3e-04	NA	Hypomethylated in FP vs FN
cg09277566	0.530	0.804	-0.274	3e-04	NA	Hypomethylated in FP vs FN
cg02224845	0.151	0.451	-0.300	3e-04	EPHA1	Hypomethylated in FP vs FN
cg12338657	0.374	0.627	-0.253	3e-04	NA	Hypomethylated in FP vs FN
cg05636467	0.242	0.512	-0.270	3e-04	NA	Hypomethylated in FP vs FN
cg01875838	0.356	0.690	-0.334	3e-04	TMED1	Hypomethylated in FP vs FN
cg08614481	0.212	0.531	-0.320	3e-04	HTR1B	Hypomethylated in FP vs FN
cg08320524	0.304	0.569	-0.265	3e-04	KCNJ15	Hypomethylated in FP vs FN
cg16238419	0.461	0.718	-0.257	3e-04	IL17REL	Hypomethylated in FP vs FN
cg01680010	0.251	0.502	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg02996471	0.282	0.547	-0.265	3e-04	S1PR4	Hypomethylated in FP vs FN
cg06653004	0.329	0.613	-0.285	3e-04	TFAP2B	Hypomethylated in FP vs FN
cg04551925	0.560	0.814	-0.255	3e-04	AQP1	Hypomethylated in FP vs FN
cg26705688	0.085	0.353	-0.267	3e-04	NA	Hypomethylated in FP vs FN
cg08970446	0.459	0.712	-0.254	3e-04	SLC1A7	Hypomethylated in FP vs FN
cg13227697	0.250	0.549	-0.299	3e-04	NA	Hypomethylated in FP vs FN
cg04157272	0.428	0.705	-0.277	3e-04	NA	Hypomethylated in FP vs FN
cg12261786	0.356	0.636	-0.280	3e-04	C10orf116	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14666564	0.210	0.548	-0.338	3e-04	NA	Hypomethylated in FP vs FN
cg08926253	0.343	0.608	-0.265	3e-04	NA	Hypomethylated in FP vs FN
cg25159668	0.404	0.686	-0.282	3e-04	AADACL2	Hypomethylated in FP vs FN
cg23984035	0.478	0.753	-0.275	3e-04	NA	Hypomethylated in FP vs FN
cg12833207	0.193	0.534	-0.341	3e-04	STEAP4	Hypomethylated in FP vs FN
cg19362478	0.405	0.659	-0.254	3e-04	NA	Hypomethylated in FP vs FN
cg22010052	0.247	0.552	-0.305	3e-04	LVRN	Hypomethylated in FP vs FN
cg10001848	0.456	0.731	-0.275	3e-04	NA	Hypomethylated in FP vs FN
cg15464821	0.352	0.655	-0.303	3e-04	NA	Hypomethylated in FP vs FN
cg07341290	0.141	0.448	-0.307	3e-04	NA	Hypomethylated in FP vs FN
cg00399483	0.219	0.492	-0.274	3e-04	NA	Hypomethylated in FP vs FN
cg01139880	0.523	0.784	-0.261	3e-04	NA	Hypomethylated in FP vs FN
cg22250498	0.201	0.514	-0.313	3e-04	HRASLS5	Hypomethylated in FP vs FN
cg20273485	0.338	0.632	-0.294	3e-04	NA	Hypomethylated in FP vs FN
cg23998071	0.232	0.541	-0.309	3e-04	NA	Hypomethylated in FP vs FN
cg26706163	0.472	0.736	-0.264	3e-04	NA	Hypomethylated in FP vs FN
cg15648060	0.444	0.723	-0.278	3e-04	NA	Hypomethylated in FP vs FN
cg15074033	0.304	0.643	-0.338	3e-04	NA	Hypomethylated in FP vs FN
cg26466587	0.259	0.610	-0.351	3e-04	MCHR2	Hypomethylated in FP vs FN
cg21836370	0.461	0.754	-0.294	3e-04	NA	Hypomethylated in FP vs FN
cg21488279	0.427	0.679	-0.252	3e-04	NA	Hypomethylated in FP vs FN
cg10137231	0.319	0.602	-0.283	3e-04	REC8	Hypomethylated in FP vs FN
cg24042242	0.096	0.375	-0.280	3e-04	NA	Hypomethylated in FP vs FN
cg08254266	0.478	0.752	-0.274	3e-04	KCNU1	Hypomethylated in FP vs FN
cg04406436	0.114	0.427	-0.313	3e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg27345757	0.229	0.485	-0.257	3e-04	NA	Hypomethylated in FP vs FN
cg27324117	0.474	0.725	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg14981819	0.281	0.546	-0.265	3e-04	NA	Hypomethylated in FP vs FN
cg21058822	0.399	0.692	-0.292	3e-04	MBOAT4	Hypomethylated in FP vs FN
cg12662091	0.124	0.438	-0.314	3e-04	NA	Hypomethylated in FP vs FN
cg21546155	0.342	0.662	-0.320	3e-04	NA	Hypomethylated in FP vs FN
cg21805936	0.264	0.606	-0.342	3e-04	NA	Hypomethylated in FP vs FN
cg27401846	0.404	0.672	-0.268	3e-04	NA	Hypomethylated in FP vs FN
cg21228500	0.253	0.582	-0.329	3e-04	NA	Hypomethylated in FP vs FN
cg09665320	0.254	0.531	-0.277	3e-04	NA	Hypomethylated in FP vs FN
cg04819096	0.266	0.561	-0.296	3e-04	NA	Hypomethylated in FP vs FN
cg02440199	0.340	0.600	-0.260	3e-04	NA	Hypomethylated in FP vs FN
cg03667051	0.141	0.435	-0.294	3e-04	NA	Hypomethylated in FP vs FN
cg12938020	0.337	0.660	-0.323	3e-04	NA	Hypomethylated in FP vs FN
cg04912843	0.148	0.506	-0.358	3e-04	GIPC2	Hypomethylated in FP vs FN
cg20495052	0.375	0.639	-0.265	3e-04	NA	Hypomethylated in FP vs FN
cg13546935	0.237	0.591	-0.355	3e-04	SPDYA	Hypomethylated in FP vs FN
cg21033965	0.364	0.637	-0.273	3e-04	NA	Hypomethylated in FP vs FN
cg00503840	0.340	0.623	-0.283	3e-04	NA	Hypomethylated in FP vs FN
cg27088384	0.507	0.774	-0.268	3e-04	NA	Hypomethylated in FP vs FN
cg26910511	0.369	0.650	-0.282	3e-04	NA	Hypomethylated in FP vs FN
cg09398762	0.346	0.649	-0.304	3e-04	NA	Hypomethylated in FP vs FN
cg18841634	0.133	0.401	-0.268	3e-04	NA	Hypomethylated in FP vs FN
cg25437411	0.269	0.614	-0.344	3e-04	HPSE2	Hypomethylated in FP vs FN
cg23741520	0.363	0.614	-0.251	3e-04	BNC1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03344570	0.081	0.385	-0.303	3e-04	NA	Hypomethylated in FP vs FN
cg21543589	0.330	0.655	-0.326	3e-04	COX4I2	Hypomethylated in FP vs FN
cg08618204	0.455	0.726	-0.271	3e-04	NA	Hypomethylated in FP vs FN
cg14189750	0.162	0.442	-0.280	3e-04	NA	Hypomethylated in FP vs FN
cg18635723	0.226	0.511	-0.286	3e-04	NA	Hypomethylated in FP vs FN
cg00208274	0.256	0.573	-0.318	3e-04	NA	Hypomethylated in FP vs FN
cg24975222	0.189	0.480	-0.291	3e-04	CDCP1	Hypomethylated in FP vs FN
cg05628616	0.431	0.735	-0.304	3e-04	NA	Hypomethylated in FP vs FN
cg04285652	0.385	0.668	-0.283	3e-04	NA	Hypomethylated in FP vs FN
cg08754149	0.446	0.703	-0.257	3e-04	NA	Hypomethylated in FP vs FN
cg10803577	0.454	0.729	-0.276	3e-04	NA	Hypomethylated in FP vs FN
cg07416656	0.347	0.635	-0.288	3e-04	NA	Hypomethylated in FP vs FN
cg19788741	0.095	0.455	-0.360	3e-04	SLCO4C1	Hypomethylated in FP vs FN
cg06123783	0.089	0.368	-0.280	3e-04	LOC441046	Hypomethylated in FP vs FN
cg07112260	0.176	0.428	-0.252	3e-04	NA	Hypomethylated in FP vs FN
cg06059069	0.556	0.832	-0.276	3e-04	NA	Hypomethylated in FP vs FN
cg23647989	0.425	0.701	-0.276	3e-04	NA	Hypomethylated in FP vs FN
cg23930825	0.271	0.527	-0.257	3e-04	NA	Hypomethylated in FP vs FN
cg09086835	0.431	0.702	-0.271	3e-04	NA	Hypomethylated in FP vs FN
cg04868764	0.191	0.507	-0.316	3e-04	SPINT1	Hypomethylated in FP vs FN
cg07641160	0.087	0.388	-0.301	3e-04	FAM162B	Hypomethylated in FP vs FN
cg00539542	0.343	0.603	-0.260	3e-04	NA	Hypomethylated in FP vs FN
cg08935418	0.320	0.618	-0.299	3e-04	NA	Hypomethylated in FP vs FN
cg03480337	0.365	0.685	-0.319	3e-04	NA	Hypomethylated in FP vs FN
cg11629220	0.366	0.696	-0.330	3e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04273573	0.302	0.579	-0.278	3e-04	NA	Hypomethylated in FP vs FN
cg00737978	0.236	0.541	-0.305	3e-04	C18orf1	Hypomethylated in FP vs FN
cg14428252	0.131	0.446	-0.315	3e-04	NA	Hypomethylated in FP vs FN
cg05139728	0.389	0.659	-0.270	3e-04	NA	Hypomethylated in FP vs FN
cg10088320	0.214	0.474	-0.261	3e-04	NA	Hypomethylated in FP vs FN
cg00095165	0.242	0.502	-0.260	3e-04	NA	Hypomethylated in FP vs FN
cg18245160	0.419	0.682	-0.263	3e-04	NA	Hypomethylated in FP vs FN
cg26678765	0.339	0.614	-0.275	3e-04	C1orf161	Hypomethylated in FP vs FN
cg16112157	0.513	0.773	-0.259	3e-04	KRT6A	Hypomethylated in FP vs FN
cg19717150	0.384	0.652	-0.267	3e-04	NA	Hypomethylated in FP vs FN
cg03771840	0.196	0.527	-0.331	3e-04	NA	Hypomethylated in FP vs FN
cg04842880	0.400	0.658	-0.258	3e-04	NA	Hypomethylated in FP vs FN
cg09884076	0.206	0.545	-0.339	3e-04	NA	Hypomethylated in FP vs FN
cg01296927	0.332	0.623	-0.291	3e-04	NA	Hypomethylated in FP vs FN
cg03847796	0.357	0.651	-0.295	3e-04	C1orf161	Hypomethylated in FP vs FN
cg00661970	0.507	0.779	-0.272	3e-04	NA	Hypomethylated in FP vs FN
cg15172529	0.198	0.488	-0.291	3e-04	NA	Hypomethylated in FP vs FN
cg19503977	0.247	0.582	-0.335	3e-04	HTR1B	Hypomethylated in FP vs FN
cg13546414	0.372	0.666	-0.293	3e-04	NA	Hypomethylated in FP vs FN
cg03389046	0.431	0.681	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg14328779	0.424	0.687	-0.263	3e-04	NA	Hypomethylated in FP vs FN
cg01075918	0.441	0.718	-0.277	3e-04	VAPA	Hypomethylated in FP vs FN
cg25074066	0.294	0.549	-0.255	3e-04	CHRM1	Hypomethylated in FP vs FN
cg04531704	0.284	0.618	-0.334	3e-04	NA	Hypomethylated in FP vs FN
cg27365825	0.232	0.594	-0.362	3e-04	KCNS3	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19795722	0.504	0.779	-0.275	3e-04	NA	Hypomethylated in FP vs FN
cg26401870	0.236	0.554	-0.318	3e-04	NPM2	Hypomethylated in FP vs FN
cg14388195	0.069	0.333	-0.264	3e-04	NA	Hypomethylated in FP vs FN
cg01745789	0.509	0.782	-0.273	3e-04	NA	Hypomethylated in FP vs FN
cg09552123	0.345	0.626	-0.281	3e-04	SMCP	Hypomethylated in FP vs FN
cg07637239	0.314	0.583	-0.269	3e-04	NA	Hypomethylated in FP vs FN
cg04043455	0.236	0.523	-0.287	3e-04	NA	Hypomethylated in FP vs FN
cg08932256	0.395	0.683	-0.288	3e-04	NA	Hypomethylated in FP vs FN
cg22111442	0.349	0.605	-0.256	3e-04	SNORD85	Hypomethylated in FP vs FN
cg25514304	0.316	0.578	-0.262	3e-04	NA	Hypomethylated in FP vs FN
cg16559598	0.223	0.523	-0.300	3e-04	TBX5	Hypomethylated in FP vs FN
cg18628371	0.197	0.484	-0.287	3e-04	REC8	Hypomethylated in FP vs FN
cg12192691	0.201	0.455	-0.254	3e-04	NA	Hypomethylated in FP vs FN
cg11991903	0.336	0.597	-0.261	3e-04	NA	Hypomethylated in FP vs FN
cg01854776	0.292	0.551	-0.259	3e-04	NA	Hypomethylated in FP vs FN
cg02886208	0.519	0.816	-0.296	3e-04	NA	Hypomethylated in FP vs FN
cg15318546	0.265	0.551	-0.285	3e-04	NA	Hypomethylated in FP vs FN
cg13048822	0.374	0.632	-0.257	3e-04	PCDHGB1	Hypomethylated in FP vs FN
cg19719133	0.190	0.583	-0.393	3e-04	NA	Hypomethylated in FP vs FN
cg14819504	0.324	0.693	-0.369	3e-04	LY75	Hypomethylated in FP vs FN
cg09198782	0.451	0.717	-0.266	3e-04	SLC22A18	Hypomethylated in FP vs FN
cg18515591	0.391	0.680	-0.289	3e-04	BTG4_MIR34C_MIR34B	Hypomethylated in FP vs FN
cg11689813	0.066	0.342	-0.276	3e-04	ACTA1	Hypomethylated in FP vs FN
cg06056169	0.278	0.580	-0.302	3e-04	CELSR1	Hypomethylated in FP vs FN
cg13272280	0.109	0.402	-0.293	3e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09246829	0.199	0.508	-0.310	3e-04	NA	Hypomethylated in FP vs FN
cg15786205	0.399	0.690	-0.290	3e-04	NA	Hypomethylated in FP vs FN
cg09148852	0.205	0.468	-0.263	3e-04	NA	Hypomethylated in FP vs FN
cg25580825	0.464	0.726	-0.262	3e-04	NA	Hypomethylated in FP vs FN
cg09370867	0.399	0.689	-0.290	3e-04	FGR	Hypomethylated in FP vs FN
cg07516252	0.155	0.474	-0.319	3e-04	REC8	Hypomethylated in FP vs FN
cg04168853	0.172	0.493	-0.321	3e-04	NA	Hypomethylated in FP vs FN
cg11686901	0.572	0.851	-0.279	3e-04	NA	Hypomethylated in FP vs FN
cg21890551	0.356	0.660	-0.304	3e-04	NA	Hypomethylated in FP vs FN
cg00146027	0.361	0.621	-0.260	3e-04	NA	Hypomethylated in FP vs FN
cg17713488	0.311	0.563	-0.252	3e-04	NA	Hypomethylated in FP vs FN
cg02071712	0.148	0.401	-0.253	3e-04	NT5DC3	Hypomethylated in FP vs FN
cg22226821	0.226	0.532	-0.307	3e-04	NA	Hypomethylated in FP vs FN
cg21236182	0.424	0.688	-0.265	3e-04	NA	Hypomethylated in FP vs FN
cg26767632	0.215	0.497	-0.282	3e-04	PGLYRP1	Hypomethylated in FP vs FN
cg26279336	0.281	0.588	-0.306	3e-04	NA	Hypomethylated in FP vs FN
cg25633678	0.372	0.706	-0.334	3e-04	NA	Hypomethylated in FP vs FN
cg25775494	0.127	0.409	-0.283	3e-04	NA	Hypomethylated in FP vs FN
cg01693350	0.526	0.795	-0.269	3e-04	NA	Hypomethylated in FP vs FN
cg14116129	0.213	0.466	-0.252	3e-04	NA	Hypomethylated in FP vs FN
cg02605601	0.293	0.597	-0.305	3e-04	NA	Hypomethylated in FP vs FN
cg13233461	0.272	0.663	-0.391	3e-04	NA	Hypomethylated in FP vs FN
cg07138070	0.262	0.538	-0.277	3e-04	NA	Hypomethylated in FP vs FN
cg02820748	0.154	0.488	-0.334	3e-04	TPD52L1	Hypomethylated in FP vs FN
cg18912484	0.098	0.404	-0.306	3e-04	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13506354	0.492	0.749	-0.257	3e-04	XRCC5	Hypomethylated in FP vs FN
cg19967668	0.362	0.631	-0.269	3e-04	NA	Hypomethylated in FP vs FN
cg12044923	0.380	0.643	-0.263	3e-04	NA	Hypomethylated in FP vs FN
cg12351587	0.315	0.566	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg14598478	0.331	0.585	-0.254	3e-04	NA	Hypomethylated in FP vs FN
cg13046853	0.329	0.583	-0.253	3e-04	NA	Hypomethylated in FP vs FN
cg18877699	0.318	0.582	-0.263	3e-04	NA	Hypomethylated in FP vs FN
cg03281194	0.539	0.790	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg20435387	0.453	0.711	-0.258	3e-04	LOC285740	Hypomethylated in FP vs FN
cg27032146	0.216	0.555	-0.339	3e-04	NA	Hypomethylated in FP vs FN
cg00655913	0.138	0.438	-0.300	3e-04	NA	Hypomethylated in FP vs FN
cg18250736	0.388	0.661	-0.273	3e-04	NA	Hypomethylated in FP vs FN
cg04689080	0.103	0.509	-0.406	3e-04	NA	Hypomethylated in FP vs FN
cg09374774	0.270	0.529	-0.259	3e-04	FAM78A	Hypomethylated in FP vs FN
cg14001023	0.306	0.651	-0.345	3e-04	PGLYRP1	Hypomethylated in FP vs FN
cg27349540	0.381	0.633	-0.251	3e-04	NA	Hypomethylated in FP vs FN
cg22991959	0.100	0.366	-0.266	3e-04	SLCO4C1	Hypomethylated in FP vs FN
cg16099169	0.284	0.576	-0.292	3e-04	NA	Hypomethylated in FP vs FN
cg08487063	0.287	0.628	-0.341	3e-04	NA	Hypomethylated in FP vs FN
cg03610073	0.301	0.570	-0.270	3e-04	TLR2	Hypomethylated in FP vs FN
cg07557690	0.351	0.615	-0.264	3e-04	TGFBR3	Hypomethylated in FP vs FN
cg00570069	0.278	0.580	-0.303	3e-04	NA	Hypomethylated in FP vs FN
cg10094691	0.436	0.689	-0.253	3e-04	NA	Hypomethylated in FP vs FN
cg07616828	0.272	0.562	-0.290	3e-04	NA	Hypomethylated in FP vs FN
cg04633600	0.132	0.391	-0.259	3e-04	SLCO4C1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04510564	0.502	0.776	-0.274	3e-04	NA	Hypomethylated in FP vs FN
cg19768599	0.146	0.435	-0.289	3e-04	SLC12A8	Hypomethylated in FP vs FN
cg15448056	0.476	0.779	-0.303	3e-04	NA	Hypomethylated in FP vs FN
cg14032033	0.581	0.831	-0.250	3e-04	NA	Hypomethylated in FP vs FN
cg20826610	0.376	0.637	-0.261	3e-04	NA	Hypomethylated in FP vs FN
cg17029354	0.442	0.711	-0.269	3e-04	NA	Hypomethylated in FP vs FN
cg06480736	0.134	0.457	-0.323	3e-04	SLCO4C1	Hypomethylated in FP vs FN
cg12183993	0.155	0.451	-0.296	3e-04	NA	Hypomethylated in FP vs FN
cg13112361	0.246	0.555	-0.309	3e-04	HRASLS5	Hypomethylated in FP vs FN
cg07823273	0.309	0.576	-0.267	3e-04	SYCN	Hypomethylated in FP vs FN
cg12759298	0.218	0.550	-0.333	3e-04	NA	Hypomethylated in FP vs FN
cg04435807	0.382	0.641	-0.260	3e-04	NA	Hypomethylated in FP vs FN
cg03146733	0.373	0.643	-0.270	3e-04	NA	Hypomethylated in FP vs FN
cg03831665	0.392	0.684	-0.292	3e-04	NA	Hypomethylated in FP vs FN
cg07751641	0.249	0.547	-0.298	3e-04	NA	Hypomethylated in FP vs FN
cg00725401	0.095	0.354	-0.259	3e-04	NA	Hypomethylated in FP vs FN
cg23882862	0.118	0.490	-0.371	3e-04	C11orf93	Hypomethylated in FP vs FN
cg12426653	0.384	0.676	-0.292	3e-04	NA	Hypomethylated in FP vs FN
cg24684077	0.458	0.764	-0.307	3e-04	NA	Hypomethylated in FP vs FN
cg25017223	0.237	0.553	-0.316	3e-04	NA	Hypomethylated in FP vs FN
cg04700861	0.444	0.716	-0.272	3e-04	NA	Hypomethylated in FP vs FN
cg04471192	0.483	0.762	-0.279	3e-04	NA	Hypomethylated in FP vs FN
cg24631845	0.470	0.739	-0.269	3e-04	NA	Hypomethylated in FP vs FN
cg23564241	0.420	0.691	-0.271	3e-04	IL22RA2	Hypomethylated in FP vs FN
cg12510458	0.316	0.617	-0.301	3e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16009970	0.501	0.757	-0.257	3e-04	YBX2	Hypomethylated in FP vs FN
cg26115633	0.257	0.665	-0.408	3e-04	FOXI2	Hypomethylated in FP vs FN
cg12319423	0.191	0.458	-0.268	3e-04	SCAND3	Hypomethylated in FP vs FN
cg25044651	0.282	0.588	-0.305	3e-04	LVRN	Hypomethylated in FP vs FN
cg01218587	0.320	0.607	-0.287	3e-04	NA	Hypomethylated in FP vs FN
cg11853788	0.501	0.785	-0.284	3e-04	NA	Hypomethylated in FP vs FN
cg10747115	0.107	0.368	-0.261	3e-04	SLC12A8	Hypomethylated in FP vs FN
cg21713473	0.284	0.538	-0.254	3e-04	NA	Hypomethylated in FP vs FN
cg26906629	0.392	0.683	-0.291	3e-04	NA	Hypomethylated in FP vs FN
cg04812189	0.357	0.624	-0.267	3e-04	GPR156	Hypomethylated in FP vs FN
cg08949339	0.151	0.431	-0.281	4e-04	NA	Hypomethylated in FP vs FN
cg03549127	0.099	0.448	-0.349	4e-04	GCA	Hypomethylated in FP vs FN
cg18131851	0.187	0.486	-0.299	4e-04	PCDHB10	Hypomethylated in FP vs FN
cg22550847	0.393	0.669	-0.276	4e-04	NA	Hypomethylated in FP vs FN
cg11442608	0.429	0.698	-0.269	4e-04	NA	Hypomethylated in FP vs FN
cg19516457	0.164	0.435	-0.272	4e-04	LOC283392	Hypomethylated in FP vs FN
cg06338710	0.389	0.668	-0.279	4e-04	NA	Hypomethylated in FP vs FN
cg00549772	0.194	0.458	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg00206063	0.386	0.700	-0.314	4e-04	NA	Hypomethylated in FP vs FN
cg25123266	0.269	0.527	-0.258	4e-04	SLC26A8	Hypomethylated in FP vs FN
cg11857794	0.430	0.684	-0.253	4e-04	NA	Hypomethylated in FP vs FN
cg08873805	0.079	0.359	-0.280	4e-04	ZSCAN18	Hypomethylated in FP vs FN
cg19722748	0.263	0.547	-0.284	4e-04	NA	Hypomethylated in FP vs FN
cg20208384	0.165	0.475	-0.309	4e-04	NA	Hypomethylated in FP vs FN
cg16279861	0.431	0.725	-0.294	4e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14578895	0.400	0.654	-0.254	4e-04	NA	Hypomethylated in FP vs FN
cg00092518	0.438	0.802	-0.364	4e-04	PHF11	Hypomethylated in FP vs FN
cg22433862	0.356	0.611	-0.255	4e-04	NA	Hypomethylated in FP vs FN
cg17515837	0.469	0.740	-0.271	4e-04	NA	Hypomethylated in FP vs FN
cg19918599	0.394	0.667	-0.273	4e-04	NA	Hypomethylated in FP vs FN
cg06908244	0.211	0.482	-0.270	4e-04	NA	Hypomethylated in FP vs FN
cg19818890	0.160	0.439	-0.279	4e-04	NA	Hypomethylated in FP vs FN
cg27233847	0.393	0.643	-0.250	4e-04	NA	Hypomethylated in FP vs FN
cg10836406	0.351	0.651	-0.301	4e-04	NA	Hypomethylated in FP vs FN
cg23728669	0.191	0.507	-0.317	4e-04	HRASLS5	Hypomethylated in FP vs FN
cg15908709	0.209	0.475	-0.265	4e-04	NA	Hypomethylated in FP vs FN
cg22280475	0.397	0.709	-0.312	4e-04	NA	Hypomethylated in FP vs FN
cg21448057	0.246	0.593	-0.346	4e-04	SLITRK1	Hypomethylated in FP vs FN
cg24376776	0.140	0.481	-0.340	4e-04	NA	Hypomethylated in FP vs FN
cg11322464	0.272	0.667	-0.395	4e-04	TPD52L1	Hypomethylated in FP vs FN
cg26259818	0.545	0.823	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg05171129	0.325	0.661	-0.336	4e-04	NA	Hypomethylated in FP vs FN
cg18252309	0.177	0.459	-0.282	4e-04	DPP6	Hypomethylated in FP vs FN
cg14240300	0.361	0.650	-0.289	4e-04	HOXB9	Hypomethylated in FP vs FN
cg23010507	0.289	0.601	-0.312	4e-04	NA	Hypomethylated in FP vs FN
cg24079361	0.084	0.403	-0.318	4e-04	SERP2	Hypomethylated in FP vs FN
cg06452665	0.146	0.455	-0.309	4e-04	TNFSF11	Hypomethylated in FP vs FN
cg10393548	0.456	0.725	-0.269	4e-04	NA	Hypomethylated in FP vs FN
cg26127345	0.162	0.503	-0.342	4e-04	PTEN_KILLIN	Hypomethylated in FP vs FN
cg16789104	0.189	0.497	-0.308	4e-04	SKAP1	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04691908	0.291	0.605	-0.314	4e-04	NA	Hypomethylated in FP vs FN
cg13002222	0.440	0.718	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg06607919	0.147	0.458	-0.311	4e-04	NA	Hypomethylated in FP vs FN
cg27357229	0.334	0.603	-0.269	4e-04	NA	Hypomethylated in FP vs FN
cg05168491	0.330	0.602	-0.272	4e-04	NA	Hypomethylated in FP vs FN
cg02325540	0.165	0.448	-0.282	4e-04	NA	Hypomethylated in FP vs FN
cg08278108	0.157	0.443	-0.286	4e-04	NA	Hypomethylated in FP vs FN
cg18661868	0.278	0.550	-0.272	4e-04	FES	Hypomethylated in FP vs FN
cg07834418	0.291	0.589	-0.299	4e-04	NA	Hypomethylated in FP vs FN
cg09857324	0.418	0.682	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg11693285	0.487	0.765	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg21383280	0.331	0.617	-0.285	4e-04	NA	Hypomethylated in FP vs FN
cg26545268	0.146	0.405	-0.260	4e-04	PKHD1L1	Hypomethylated in FP vs FN
cg04138756	0.455	0.708	-0.254	4e-04	SPRR3	Hypomethylated in FP vs FN
cg01941619	0.449	0.755	-0.306	4e-04	MEP1B	Hypomethylated in FP vs FN
cg23414262	0.391	0.657	-0.266	4e-04	NA	Hypomethylated in FP vs FN
cg00901554	0.477	0.748	-0.272	4e-04	NA	Hypomethylated in FP vs FN
cg08487909	0.358	0.615	-0.258	4e-04	NA	Hypomethylated in FP vs FN
cg18143296	0.428	0.734	-0.306	4e-04	NA	Hypomethylated in FP vs FN
cg24016939	0.053	0.327	-0.274	4e-04	ZNF671	Hypomethylated in FP vs FN
cg03975694	0.210	0.535	-0.325	4e-04	ZNF540	Hypomethylated in FP vs FN
cg02683577	0.384	0.643	-0.259	4e-04	NA	Hypomethylated in FP vs FN
cg03191962	0.271	0.538	-0.267	4e-04	C9orf9	Hypomethylated in FP vs FN
cg03302259	0.527	0.796	-0.269	4e-04	ACP5	Hypomethylated in FP vs FN
cg03861217	0.405	0.657	-0.252	4e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg15841205	0.370	0.646	-0.276	4e-04	NA	Hypomethylated in FP vs FN
cg27223727	0.080	0.401	-0.321	4e-04	PCP4L1	Hypomethylated in FP vs FN
cg03458172	0.316	0.667	-0.350	4e-04	NA	Hypomethylated in FP vs FN
cg11085762	0.405	0.683	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg01786828	0.082	0.377	-0.295	4e-04	SWAP70	Hypomethylated in FP vs FN
cg26471982	0.466	0.718	-0.252	4e-04	NA	Hypomethylated in FP vs FN
cg26447697	0.443	0.699	-0.257	4e-04	RRBP1	Hypomethylated in FP vs FN
cg26608174	0.125	0.433	-0.308	4e-04	MIR196A1	Hypomethylated in FP vs FN
cg11219400	0.465	0.718	-0.253	4e-04	NA	Hypomethylated in FP vs FN
cg18519902	0.328	0.582	-0.253	4e-04	NA	Hypomethylated in FP vs FN
cg23817893	0.341	0.693	-0.352	4e-04	CCDC81	Hypomethylated in FP vs FN
cg03554749	0.203	0.486	-0.283	4e-04	NA	Hypomethylated in FP vs FN
cg09519327	0.073	0.347	-0.274	4e-04	NA	Hypomethylated in FP vs FN
cg10395685	0.331	0.678	-0.347	4e-04	CCDC81	Hypomethylated in FP vs FN
cg10705541	0.134	0.410	-0.277	4e-04	ZNF334	Hypomethylated in FP vs FN
cg03969902	0.349	0.624	-0.275	4e-04	NA	Hypomethylated in FP vs FN
cg05756489	0.235	0.561	-0.326	4e-04	NA	Hypomethylated in FP vs FN
cg11635839	0.171	0.507	-0.336	4e-04	NA	Hypomethylated in FP vs FN
cg22224597	0.282	0.601	-0.319	4e-04	CTPS	Hypomethylated in FP vs FN
cg23211240	0.167	0.489	-0.322	4e-04	MIR34B_BTG4_MIR34C	Hypomethylated in FP vs FN
cg22851295	0.125	0.404	-0.279	4e-04	GCM2	Hypomethylated in FP vs FN
cg26636054	0.413	0.684	-0.271	4e-04	FAM18A	Hypomethylated in FP vs FN
cg04419610	0.182	0.447	-0.265	4e-04	NA	Hypomethylated in FP vs FN
cg12742432	0.412	0.676	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg24481868	0.338	0.712	-0.374	4e-04	PHF11	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17657898	0.352	0.636	-0.284	4e-04	NA	Hypomethylated in FP vs FN
cg22138302	0.451	0.704	-0.253	4e-04	ABCG4	Hypomethylated in FP vs FN
cg26919149	0.556	0.814	-0.257	4e-04	NA	Hypomethylated in FP vs FN
cg21209022	0.227	0.514	-0.287	4e-04	NA	Hypomethylated in FP vs FN
cg04064998	0.402	0.662	-0.261	4e-04	NA	Hypomethylated in FP vs FN
cg15483381	0.467	0.746	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg06817264	0.117	0.374	-0.257	4e-04	NA	Hypomethylated in FP vs FN
cg03346987	0.288	0.596	-0.307	4e-04	NA	Hypomethylated in FP vs FN
cg19998368	0.118	0.481	-0.363	4e-04	C12orf56	Hypomethylated in FP vs FN
cg24984523	0.233	0.571	-0.338	4e-04	PHF11	Hypomethylated in FP vs FN
cg02126435	0.083	0.404	-0.321	4e-04	RFWD3	Hypomethylated in FP vs FN
cg04935434	0.383	0.692	-0.309	4e-04	NA	Hypomethylated in FP vs FN
cg13730743	0.059	0.347	-0.288	4e-04	NA	Hypomethylated in FP vs FN
cg27032232	0.237	0.602	-0.365	4e-04	DPP6	Hypomethylated in FP vs FN
cg11662712	0.463	0.740	-0.278	4e-04	NA	Hypomethylated in FP vs FN
cg20897936	0.238	0.554	-0.316	4e-04	SCAND3	Hypomethylated in FP vs FN
cg08567279	0.213	0.610	-0.396	4e-04	NA	Hypomethylated in FP vs FN
cg09759458	0.225	0.484	-0.259	4e-04	NA	Hypomethylated in FP vs FN
cg14302471	0.309	0.611	-0.302	4e-04	LOC154822	Hypomethylated in FP vs FN
cg15556873	0.463	0.721	-0.258	4e-04	NA	Hypomethylated in FP vs FN
cg13790268	0.341	0.659	-0.318	4e-04	NA	Hypomethylated in FP vs FN
cg03372385	0.376	0.682	-0.306	4e-04	NA	Hypomethylated in FP vs FN
cg22848598	0.199	0.569	-0.371	4e-04	ADAM32	Hypomethylated in FP vs FN
cg11271605	0.263	0.581	-0.318	4e-04	STEAP4	Hypomethylated in FP vs FN
cg13970437	0.460	0.712	-0.252	4e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01422017	0.407	0.678	-0.271	4e-04	TSPAN16	Hypomethylated in FP vs FN
cg20673481	0.116	0.382	-0.266	4e-04	KCNS3	Hypomethylated in FP vs FN
cg06501832	0.186	0.468	-0.282	4e-04	NA	Hypomethylated in FP vs FN
cg13489501	0.466	0.727	-0.261	4e-04	NA	Hypomethylated in FP vs FN
cg14156751	0.305	0.632	-0.327	4e-04	NA	Hypomethylated in FP vs FN
cg19095187	0.263	0.546	-0.283	4e-04	NA	Hypomethylated in FP vs FN
cg05601844	0.362	0.629	-0.267	4e-04	NA	Hypomethylated in FP vs FN
cg07878486	0.079	0.369	-0.291	4e-04	ZNF132	Hypomethylated in FP vs FN
cg00891611	0.365	0.637	-0.272	4e-04	NA	Hypomethylated in FP vs FN
cg21759280	0.535	0.810	-0.275	4e-04	NA	Hypomethylated in FP vs FN
cg16443148	0.151	0.442	-0.291	4e-04	CCDC78_HAGHL	Hypomethylated in FP vs FN
cg10161743	0.356	0.620	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg23619217	0.394	0.645	-0.251	4e-04	IL25	Hypomethylated in FP vs FN
cg02317313	0.248	0.546	-0.298	4e-04	NA	Hypomethylated in FP vs FN
cg23550704	0.425	0.677	-0.253	4e-04	NA	Hypomethylated in FP vs FN
cg00017489	0.258	0.552	-0.293	4e-04	DPP6	Hypomethylated in FP vs FN
cg17675712	0.444	0.708	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg04802040	0.113	0.446	-0.333	4e-04	NA	Hypomethylated in FP vs FN
cg08175609	0.462	0.724	-0.262	4e-04	NA	Hypomethylated in FP vs FN
cg04523661	0.291	0.588	-0.297	4e-04	NA	Hypomethylated in FP vs FN
cg18907180	0.157	0.434	-0.276	4e-04	NA	Hypomethylated in FP vs FN
cg07917127	0.157	0.492	-0.335	4e-04	C4orf37	Hypomethylated in FP vs FN
cg05882680	0.104	0.410	-0.306	4e-04	NA	Hypomethylated in FP vs FN
cg15038110	0.255	0.509	-0.255	4e-04	PCDHB6	Hypomethylated in FP vs FN
cg11075754	0.146	0.446	-0.300	4e-04	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14221612	0.315	0.575	-0.260	4e-04	NA	Hypomethylated in FP vs FN
cg14768785	0.130	0.419	-0.289	4e-04	GHSR	Hypomethylated in FP vs FN
cg01804281	0.339	0.623	-0.284	4e-04	NA	Hypomethylated in FP vs FN
cg12914047	0.170	0.457	-0.288	4e-04	TRIM4	Hypomethylated in FP vs FN
cg13939978	0.230	0.481	-0.251	4e-04	HOPX	Hypomethylated in FP vs FN
cg24834659	0.237	0.571	-0.334	4e-04	NA	Hypomethylated in FP vs FN
cg18193764	0.171	0.540	-0.370	4e-04	NA	Hypomethylated in FP vs FN
cg27631593	0.411	0.662	-0.250	4e-04	NA	Hypomethylated in FP vs FN
cg05016408	0.339	0.676	-0.337	4e-04	LOC134466	Hypomethylated in FP vs FN
cg11823736	0.280	0.540	-0.260	4e-04	IDO2	Hypomethylated in FP vs FN
cg11299854	0.065	0.333	-0.268	4e-04	CCNI2	Hypomethylated in FP vs FN
cg05884053	0.277	0.551	-0.274	4e-04	NA	Hypomethylated in FP vs FN
cg11086764	0.211	0.509	-0.298	4e-04	NA	Hypomethylated in FP vs FN
cg25409499	0.158	0.463	-0.305	4e-04	NA	Hypomethylated in FP vs FN
cg03242471	0.491	0.743	-0.252	4e-04	NA	Hypomethylated in FP vs FN
cg14820199	0.160	0.436	-0.276	4e-04	NA	Hypomethylated in FP vs FN
cg07418387	0.256	0.615	-0.359	4e-04	NA	Hypomethylated in FP vs FN
cg05446860	0.481	0.732	-0.252	4e-04	LOC284798	Hypomethylated in FP vs FN
cg20710730	0.242	0.517	-0.276	4e-04	NA	Hypomethylated in FP vs FN
cg01348293	0.357	0.642	-0.285	4e-04	NA	Hypomethylated in FP vs FN
cg05789704	0.168	0.471	-0.303	4e-04	ADAM32	Hypomethylated in FP vs FN
cg11630226	0.304	0.594	-0.290	4e-04	LY6K	Hypomethylated in FP vs FN
cg11849281	0.172	0.445	-0.274	4e-04	NA	Hypomethylated in FP vs FN
cg12200038	0.265	0.626	-0.362	4e-04	NA	Hypomethylated in FP vs FN
cg03612747	0.235	0.562	-0.327	4e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03535659	0.188	0.484	-0.296	4e-04	CYP7B1	Hypomethylated in FP vs FN
cg04921646	0.544	0.795	-0.250	4e-04	NA	Hypomethylated in FP vs FN
cg03510486	0.402	0.654	-0.252	4e-04	NA	Hypomethylated in FP vs FN
cg14754187	0.334	0.595	-0.261	4e-04	NA	Hypomethylated in FP vs FN
cg15801340	0.241	0.543	-0.302	4e-04	NA	Hypomethylated in FP vs FN
cg08141172	0.397	0.655	-0.259	4e-04	NA	Hypomethylated in FP vs FN
cg20953606	0.338	0.593	-0.255	4e-04	NA	Hypomethylated in FP vs FN
cg15390444	0.376	0.650	-0.274	4e-04	NA	Hypomethylated in FP vs FN
cg11452043	0.396	0.701	-0.305	4e-04	NA	Hypomethylated in FP vs FN
cg17840719	0.109	0.446	-0.336	4e-04	ZNF454	Hypomethylated in FP vs FN
cg04974647	0.339	0.594	-0.255	4e-04	NA	Hypomethylated in FP vs FN
cg01104724	0.366	0.695	-0.329	4e-04	NA	Hypomethylated in FP vs FN
cg20170989	0.251	0.509	-0.258	4e-04	POM121L12	Hypomethylated in FP vs FN
cg06294954	0.297	0.569	-0.273	4e-04	NA	Hypomethylated in FP vs FN
cg05342515	0.371	0.631	-0.260	4e-04	NA	Hypomethylated in FP vs FN
cg11747499	0.147	0.424	-0.276	4e-04	SSH1	Hypomethylated in FP vs FN
cg04132199	0.363	0.649	-0.286	4e-04	NA	Hypomethylated in FP vs FN
cg00761968	0.339	0.593	-0.254	4e-04	LECT1	Hypomethylated in FP vs FN
cg17569754	0.379	0.665	-0.286	4e-04	NA	Hypomethylated in FP vs FN
cg04593696	0.373	0.654	-0.281	4e-04	SLC38A8	Hypomethylated in FP vs FN
cg20465794	0.105	0.493	-0.388	4e-04	C11orf93	Hypomethylated in FP vs FN
cg07700393	0.389	0.653	-0.264	4e-04	NA	Hypomethylated in FP vs FN
cg04206342	0.274	0.540	-0.265	4e-04	NA	Hypomethylated in FP vs FN
cg23821914	0.395	0.656	-0.261	4e-04	NA	Hypomethylated in FP vs FN
cg10526277	0.394	0.711	-0.318	4e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22366088	0.178	0.487	-0.309	4e-04	NA	Hypomethylated in FP vs FN
cg06469229	0.203	0.541	-0.339	4e-04	NA	Hypomethylated in FP vs FN
cg25365934	0.343	0.690	-0.347	4e-04	NA	Hypomethylated in FP vs FN
cg21072567	0.469	0.770	-0.301	4e-04	NA	Hypomethylated in FP vs FN
cg24722950	0.441	0.765	-0.325	4e-04	NA	Hypomethylated in FP vs FN
cg05213896	0.117	0.408	-0.291	4e-04	NA	Hypomethylated in FP vs FN
cg20304727	0.298	0.555	-0.257	4e-04	NA	Hypomethylated in FP vs FN
cg16763574	0.490	0.741	-0.252	4e-04	NA	Hypomethylated in FP vs FN
cg00164949	0.289	0.658	-0.370	4e-04	NA	Hypomethylated in FP vs FN
cg24312874	0.297	0.551	-0.255	4e-04	NA	Hypomethylated in FP vs FN
cg06086731	0.146	0.476	-0.329	4e-04	NA	Hypomethylated in FP vs FN
cg08575537	0.129	0.418	-0.289	4e-04	NA	Hypomethylated in FP vs FN
cg23217463	0.532	0.803	-0.271	4e-04	NA	Hypomethylated in FP vs FN
cg26700716	0.305	0.599	-0.294	4e-04	FRZB	Hypomethylated in FP vs FN
cg24220733	0.477	0.741	-0.263	4e-04	NA	Hypomethylated in FP vs FN
cg17454283	0.295	0.547	-0.251	4e-04	NA	Hypomethylated in FP vs FN
cg25131632	0.269	0.537	-0.267	5e-04	NA	Hypomethylated in FP vs FN
cg22761176	0.399	0.679	-0.280	5e-04	NA	Hypomethylated in FP vs FN
cg22813622	0.408	0.702	-0.293	5e-04	FANCI	Hypomethylated in FP vs FN
cg13721134	0.107	0.365	-0.258	5e-04	CA3	Hypomethylated in FP vs FN
cg19469357	0.120	0.376	-0.257	5e-04	NA	Hypomethylated in FP vs FN
cg13874739	0.141	0.489	-0.349	5e-04	NA	Hypomethylated in FP vs FN
cg17757602	0.122	0.480	-0.358	5e-04	NA	Hypomethylated in FP vs FN
cg20208443	0.389	0.644	-0.256	5e-04	NA	Hypomethylated in FP vs FN
cg12074025	0.081	0.435	-0.355	5e-04	ZNF671	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07136108	0.304	0.576	-0.272	5e-04	NA	Hypomethylated in FP vs FN
cg16983627	0.374	0.658	-0.284	5e-04	NA	Hypomethylated in FP vs FN
cg25112366	0.293	0.552	-0.259	5e-04	NA	Hypomethylated in FP vs FN
cg13324546	0.112	0.418	-0.306	5e-04	NKX2-6	Hypomethylated in FP vs FN
cg17948913	0.339	0.605	-0.266	5e-04	NA	Hypomethylated in FP vs FN
cg24777351	0.269	0.583	-0.315	5e-04	SLC38A11	Hypomethylated in FP vs FN
cg07731304	0.256	0.514	-0.258	5e-04	NA	Hypomethylated in FP vs FN
cg00118978	0.310	0.561	-0.250	5e-04	NA	Hypomethylated in FP vs FN
cg25772723	0.302	0.565	-0.263	5e-04	NA	Hypomethylated in FP vs FN
cg23884217	0.366	0.637	-0.271	5e-04	NA	Hypomethylated in FP vs FN
cg17292758	0.353	0.681	-0.328	5e-04	NA	Hypomethylated in FP vs FN
cg04100190	0.423	0.676	-0.253	5e-04	COL9A2	Hypomethylated in FP vs FN
cg02989080	0.416	0.679	-0.264	5e-04	NA	Hypomethylated in FP vs FN
cg18049571	0.361	0.654	-0.293	5e-04	NA	Hypomethylated in FP vs FN
cg12421138	0.306	0.568	-0.261	5e-04	NA	Hypomethylated in FP vs FN
cg20787201	0.427	0.699	-0.271	5e-04	NA	Hypomethylated in FP vs FN
cg05533329	0.334	0.598	-0.264	5e-04	NA	Hypomethylated in FP vs FN
cg01875106	0.275	0.542	-0.267	5e-04	NA	Hypomethylated in FP vs FN
cg08126875	0.283	0.582	-0.299	5e-04	NA	Hypomethylated in FP vs FN
cg08555552	0.164	0.468	-0.303	5e-04	NA	Hypomethylated in FP vs FN
cg18534491	0.171	0.490	-0.319	5e-04	REC8	Hypomethylated in FP vs FN
cg23638042	0.413	0.664	-0.251	5e-04	NA	Hypomethylated in FP vs FN
cg02247178	0.193	0.535	-0.341	5e-04	C13orf26	Hypomethylated in FP vs FN
cg25563456	0.142	0.398	-0.257	5e-04	WIT1	Hypomethylated in FP vs FN
cg04149015	0.301	0.592	-0.291	5e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02611811	0.296	0.559	-0.262	5e-04	NA	Hypomethylated in FP vs FN
cg13722619	0.345	0.619	-0.274	5e-04	CDCP1	Hypomethylated in FP vs FN
cg10411272	0.336	0.640	-0.305	5e-04	NA	Hypomethylated in FP vs FN
cg04226002	0.440	0.691	-0.250	5e-04	NA	Hypomethylated in FP vs FN
cg15555932	0.230	0.530	-0.300	5e-04	AP1M2	Hypomethylated in FP vs FN
cg22421859	0.176	0.447	-0.271	5e-04	NA	Hypomethylated in FP vs FN
cg05655534	0.238	0.533	-0.295	5e-04	NA	Hypomethylated in FP vs FN
cg21770330	0.186	0.438	-0.252	5e-04	NA	Hypomethylated in FP vs FN
cg22566355	0.371	0.634	-0.263	5e-04	NA	Hypomethylated in FP vs FN
cg26685246	0.367	0.627	-0.260	5e-04	NA	Hypomethylated in FP vs FN
cg09952395	0.213	0.523	-0.310	5e-04	HRASLS5	Hypomethylated in FP vs FN
cg10812027	0.349	0.612	-0.264	5e-04	NA	Hypomethylated in FP vs FN
cg19091403	0.272	0.549	-0.276	5e-04	NA	Hypomethylated in FP vs FN
cg00893493	0.345	0.626	-0.281	5e-04	NA	Hypomethylated in FP vs FN
cg26159832	0.299	0.566	-0.267	5e-04	NA	Hypomethylated in FP vs FN
cg17295733	0.527	0.779	-0.251	5e-04	NA	Hypomethylated in FP vs FN
cg20731469	0.211	0.487	-0.275	5e-04	NA	Hypomethylated in FP vs FN
cg01288155	0.376	0.626	-0.250	5e-04	NA	Hypomethylated in FP vs FN
cg25233271	0.358	0.650	-0.292	5e-04	NA	Hypomethylated in FP vs FN
cg20484832	0.460	0.754	-0.294	5e-04	PLCB4	Hypomethylated in FP vs FN
cg26640927	0.313	0.590	-0.277	5e-04	NA	Hypomethylated in FP vs FN
cg09471343	0.416	0.693	-0.276	5e-04	NA	Hypomethylated in FP vs FN
cg00494919	0.445	0.743	-0.298	5e-04	NA	Hypomethylated in FP vs FN
cg04402351	0.561	0.814	-0.254	5e-04	NA	Hypomethylated in FP vs FN
cg20986875	0.216	0.531	-0.315	5e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22149516	0.162	0.483	-0.321	5e-04	SLCO4C1	Hypomethylated in FP vs FN
cg05810177	0.232	0.490	-0.258	5e-04	NA	Hypomethylated in FP vs FN
cg01837410	0.071	0.391	-0.320	5e-04	SLCO4C1	Hypomethylated in FP vs FN
cg07745707	0.529	0.783	-0.254	5e-04	ZNF469	Hypomethylated in FP vs FN
cg26477573	0.356	0.703	-0.347	5e-04	EPHX3	Hypomethylated in FP vs FN
cg00836940	0.426	0.679	-0.253	5e-04	NA	Hypomethylated in FP vs FN
cg10426464	0.079	0.371	-0.292	5e-04	C2CD4B	Hypomethylated in FP vs FN
cg04368094	0.175	0.429	-0.254	5e-04	NA	Hypomethylated in FP vs FN
cg00578511	0.336	0.589	-0.253	5e-04	NA	Hypomethylated in FP vs FN
cg18545283	0.371	0.643	-0.272	5e-04	SOHLH2	Hypomethylated in FP vs FN
cg06075311	0.200	0.453	-0.254	5e-04	NA	Hypomethylated in FP vs FN
cg07627639	0.351	0.608	-0.257	5e-04	NA	Hypomethylated in FP vs FN
cg22386311	0.344	0.598	-0.254	5e-04	NA	Hypomethylated in FP vs FN
cg04295612	0.424	0.695	-0.271	5e-04	NA	Hypomethylated in FP vs FN
cg10312211	0.141	0.404	-0.263	5e-04	NA	Hypomethylated in FP vs FN
cg00414384	0.462	0.759	-0.297	5e-04	NA	Hypomethylated in FP vs FN
cg03666053	0.171	0.422	-0.251	5e-04	NA	Hypomethylated in FP vs FN
cg16085553	0.416	0.701	-0.285	5e-04	NA	Hypomethylated in FP vs FN
cg18009322	0.237	0.503	-0.266	5e-04	KIF25	Hypomethylated in FP vs FN
cg18669388	0.338	0.630	-0.292	5e-04	SLIT3	Hypomethylated in FP vs FN
cg12301695	0.309	0.617	-0.307	5e-04	SLC38A11	Hypomethylated in FP vs FN
cg02380585	0.294	0.588	-0.295	5e-04	SLFN13	Hypomethylated in FP vs FN
cg02461363	0.375	0.659	-0.285	5e-04	NA	Hypomethylated in FP vs FN
cg19829477	0.458	0.710	-0.252	5e-04	NA	Hypomethylated in FP vs FN
cg05127821	0.137	0.451	-0.314	5e-04	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24161106	0.421	0.708	-0.287	5e-04	NA	Hypomethylated in FP vs FN
cg16636522	0.119	0.439	-0.320	5e-04	NA	Hypomethylated in FP vs FN
cg03115379	0.253	0.530	-0.277	5e-04	NA	Hypomethylated in FP vs FN
cg04018288	0.159	0.450	-0.290	5e-04	NA	Hypomethylated in FP vs FN
cg13631916	0.107	0.367	-0.260	5e-04	FAM162B	Hypomethylated in FP vs FN
cg06436573	0.349	0.619	-0.269	5e-04	NA	Hypomethylated in FP vs FN
cg22030457	0.207	0.509	-0.302	5e-04	NA	Hypomethylated in FP vs FN
cg24509810	0.243	0.563	-0.320	5e-04	NA	Hypomethylated in FP vs FN
cg05771369	0.370	0.657	-0.287	5e-04	NA	Hypomethylated in FP vs FN
cg20181887	0.234	0.509	-0.275	5e-04	NA	Hypomethylated in FP vs FN
cg08162976	0.409	0.660	-0.251	5e-04	NA	Hypomethylated in FP vs FN
cg07969300	0.498	0.761	-0.264	5e-04	NA	Hypomethylated in FP vs FN
cg00037400	0.212	0.505	-0.292	5e-04	NA	Hypomethylated in FP vs FN
cg22271305	0.184	0.515	-0.332	5e-04	AGBL2	Hypomethylated in FP vs FN
cg25577842	0.167	0.492	-0.325	5e-04	NA	Hypomethylated in FP vs FN
cg22620221	0.119	0.499	-0.380	5e-04	DPP6	Hypomethylated in FP vs FN
cg06717565	0.197	0.449	-0.252	5e-04	NA	Hypomethylated in FP vs FN
cg08475953	0.422	0.728	-0.306	5e-04	NA	Hypomethylated in FP vs FN
cg18656132	0.374	0.641	-0.268	5e-04	NA	Hypomethylated in FP vs FN
cg02703870	0.212	0.465	-0.253	5e-04	SDR42E1	Hypomethylated in FP vs FN
cg10923408	0.202	0.472	-0.271	5e-04	C13orf26	Hypomethylated in FP vs FN
cg16645423	0.339	0.614	-0.275	5e-04	NA	Hypomethylated in FP vs FN
cg11009817	0.175	0.480	-0.305	5e-04	SLCO4C1	Hypomethylated in FP vs FN
cg10396171	0.332	0.592	-0.260	5e-04	NA	Hypomethylated in FP vs FN
cg24876164	0.511	0.777	-0.266	5e-04	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06316886	0.374	0.704	-0.330	5e-04	NA	Hypomethylated in FP vs FN
cg06626591	0.355	0.627	-0.272	5e-04	NA	Hypomethylated in FP vs FN
cg08489941	0.170	0.507	-0.337	5e-04	NA	Hypomethylated in FP vs FN
cg03423112	0.091	0.344	-0.253	5e-04	CTSF	Hypomethylated in FP vs FN
cg24312283	0.441	0.698	-0.257	5e-04	NA	Hypomethylated in FP vs FN
cg13273340	0.337	0.650	-0.312	5e-04	NA	Hypomethylated in FP vs FN
cg22177868	0.415	0.692	-0.278	5e-04	NA	Hypomethylated in FP vs FN
cg01871127	0.355	0.638	-0.284	5e-04	NA	Hypomethylated in FP vs FN
cg24188163	0.426	0.741	-0.314	5e-04	NA	Hypomethylated in FP vs FN
cg17566592	0.207	0.472	-0.264	5e-04	SF3B5	Hypomethylated in FP vs FN
cg02960853	0.080	0.363	-0.283	5e-04	GPR37	Hypomethylated in FP vs FN
cg26112661	0.199	0.507	-0.309	5e-04	MAGOH	Hypomethylated in FP vs FN
cg26221796	0.349	0.634	-0.285	5e-04	NA	Hypomethylated in FP vs FN
cg09823154	0.264	0.542	-0.278	5e-04	NA	Hypomethylated in FP vs FN
cg04651137	0.469	0.773	-0.304	5e-04	NA	Hypomethylated in FP vs FN
cg19161124	0.202	0.532	-0.330	5e-04	DPP6	Hypomethylated in FP vs FN
cg23290121	0.294	0.573	-0.279	5e-04	NA	Hypomethylated in FP vs FN
cg18900591	0.246	0.535	-0.288	5e-04	SALL4	Hypomethylated in FP vs FN
cg22435791	0.157	0.477	-0.319	5e-04	NA	Hypomethylated in FP vs FN
cg11262262	0.232	0.484	-0.252	5e-04	AATF	Hypomethylated in FP vs FN
cg08260398	0.190	0.449	-0.259	5e-04	NA	Hypomethylated in FP vs FN
cg06540636	0.303	0.570	-0.267	5e-04	NA	Hypomethylated in FP vs FN
cg07025505	0.556	0.809	-0.253	5e-04	NA	Hypomethylated in FP vs FN
cg27570984	0.505	0.816	-0.311	5e-04	NA	Hypomethylated in FP vs FN
cg13938959	0.271	0.532	-0.262	5e-04	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20521198	0.303	0.578	-0.276	5e-04	NA	Hypomethylated in FP vs FN
cg03532013	0.474	0.732	-0.258	5e-04	NA	Hypomethylated in FP vs FN
cg18749617	0.289	0.545	-0.256	5e-04	NA	Hypomethylated in FP vs FN
cg15936446	0.166	0.512	-0.347	5e-04	NA	Hypomethylated in FP vs FN
cg10675666	0.094	0.344	-0.250	5e-04	TRIM4	Hypomethylated in FP vs FN
cg11904435	0.404	0.676	-0.273	5e-04	NA	Hypomethylated in FP vs FN
cg05266564	0.555	0.808	-0.252	5e-04	NA	Hypomethylated in FP vs FN
cg18713748	0.505	0.761	-0.256	5e-04	NA	Hypomethylated in FP vs FN
cg10093805	0.435	0.701	-0.266	5e-04	NA	Hypomethylated in FP vs FN
cg21092808	0.276	0.577	-0.301	5e-04	NA	Hypomethylated in FP vs FN
cg13827361	0.409	0.666	-0.256	5e-04	NA	Hypomethylated in FP vs FN
cg14094983	0.152	0.433	-0.281	5e-04	NA	Hypomethylated in FP vs FN
cg17945053	0.337	0.587	-0.250	5e-04	NA	Hypomethylated in FP vs FN
cg14600824	0.155	0.455	-0.300	5e-04	NA	Hypomethylated in FP vs FN
cg05936441	0.273	0.568	-0.295	5e-04	NA	Hypomethylated in FP vs FN
cg27517968	0.419	0.709	-0.290	5e-04	NA	Hypomethylated in FP vs FN
cg14686645	0.451	0.739	-0.287	5e-04	NA	Hypomethylated in FP vs FN
cg11957331	0.096	0.400	-0.304	5e-04	NA	Hypomethylated in FP vs FN
cg12527684	0.228	0.553	-0.325	5e-04	EIF4E	Hypomethylated in FP vs FN
cg20456258	0.255	0.580	-0.325	5e-04	NA	Hypomethylated in FP vs FN
cg17118262	0.295	0.564	-0.269	5e-04	CCL1	Hypomethylated in FP vs FN
cg07005055	0.130	0.411	-0.281	5e-04	NA	Hypomethylated in FP vs FN
cg07434260	0.261	0.532	-0.271	5e-04	AP1M2	Hypomethylated in FP vs FN
cg20965743	0.382	0.706	-0.324	5e-04	NA	Hypomethylated in FP vs FN
cg24228040	0.325	0.655	-0.330	5e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23969274	0.314	0.580	-0.267	5e-04	NA	Hypomethylated in FP vs FN
cg14298457	0.555	0.817	-0.262	5e-04	NA	Hypomethylated in FP vs FN
cg21245092	0.315	0.573	-0.258	5e-04	C14orf115	Hypomethylated in FP vs FN
cg26004771	0.522	0.810	-0.288	5e-04	NA	Hypomethylated in FP vs FN
cg22747746	0.101	0.455	-0.353	5e-04	NKX2-6	Hypomethylated in FP vs FN
cg02460251	0.291	0.626	-0.335	5e-04	NA	Hypomethylated in FP vs FN
cg21442419	0.358	0.632	-0.274	5e-04	NA	Hypomethylated in FP vs FN
cg26501049	0.370	0.624	-0.254	5e-04	FAM184A	Hypomethylated in FP vs FN
cg24624505	0.328	0.581	-0.253	5e-04	NA	Hypomethylated in FP vs FN
cg04766779	0.334	0.599	-0.265	5e-04	NA	Hypomethylated in FP vs FN
cg16005271	0.357	0.654	-0.297	5e-04	NA	Hypomethylated in FP vs FN
cg12037450	0.292	0.568	-0.276	5e-04	NA	Hypomethylated in FP vs FN
cg18395917	0.226	0.615	-0.389	5e-04	NA	Hypomethylated in FP vs FN
cg15712559	0.170	0.481	-0.310	5e-04	NA	Hypomethylated in FP vs FN
cg03855388	0.549	0.842	-0.293	5e-04	NA	Hypomethylated in FP vs FN
cg14567877	0.376	0.630	-0.254	5e-04	NA	Hypomethylated in FP vs FN
cg12230728	0.203	0.517	-0.315	6e-04	NA	Hypomethylated in FP vs FN
cg00017461	0.349	0.604	-0.255	6e-04	OSM	Hypomethylated in FP vs FN
cg01324550	0.283	0.541	-0.258	6e-04	NA	Hypomethylated in FP vs FN
cg21476299	0.164	0.415	-0.252	6e-04	TNFSF11	Hypomethylated in FP vs FN
cg06911121	0.176	0.463	-0.287	6e-04	TBX5	Hypomethylated in FP vs FN
cg12109797	0.296	0.594	-0.298	6e-04	NA	Hypomethylated in FP vs FN
cg03431846	0.197	0.505	-0.307	6e-04	REC8	Hypomethylated in FP vs FN
cg00504705	0.359	0.638	-0.279	6e-04	PCDHA8	Hypomethylated in FP vs FN
cg15065622	0.228	0.484	-0.257	6e-04	FAM59A	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09730170	0.376	0.636	-0.259	6e-04	CST9	Hypomethylated in FP vs FN
cg09997676	0.281	0.553	-0.271	6e-04	PHF11	Hypomethylated in FP vs FN
cg12752420	0.519	0.771	-0.252	6e-04	C1orf210	Hypomethylated in FP vs FN
cg16654595	0.339	0.639	-0.300	6e-04	NA	Hypomethylated in FP vs FN
cg18417622	0.304	0.623	-0.319	6e-04	NA	Hypomethylated in FP vs FN
cg27049129	0.608	0.875	-0.267	6e-04	NA	Hypomethylated in FP vs FN
cg14582501	0.243	0.523	-0.280	6e-04	NA	Hypomethylated in FP vs FN
cg24894584	0.244	0.531	-0.287	6e-04	NA	Hypomethylated in FP vs FN
cg26149485	0.323	0.576	-0.253	6e-04	TIMM13	Hypomethylated in FP vs FN
cg04001333	0.182	0.455	-0.273	6e-04	FLVCR2	Hypomethylated in FP vs FN
cg22849665	0.556	0.815	-0.259	6e-04	NA	Hypomethylated in FP vs FN
cg04527612	0.415	0.674	-0.259	6e-04	NA	Hypomethylated in FP vs FN
cg02758612	0.177	0.512	-0.335	6e-04	NA	Hypomethylated in FP vs FN
cg03031839	0.430	0.693	-0.263	6e-04	NA	Hypomethylated in FP vs FN
cg16425038	0.197	0.543	-0.346	6e-04	REC8	Hypomethylated in FP vs FN
cg00058515	0.293	0.560	-0.267	6e-04	NA	Hypomethylated in FP vs FN
cg07586008	0.274	0.556	-0.281	6e-04	NA	Hypomethylated in FP vs FN
cg00963169	0.093	0.428	-0.335	6e-04	NA	Hypomethylated in FP vs FN
cg11118422	0.326	0.627	-0.302	6e-04	NA	Hypomethylated in FP vs FN
cg04921109	0.379	0.647	-0.269	6e-04	NA	Hypomethylated in FP vs FN
cg08299063	0.312	0.582	-0.270	6e-04	NA	Hypomethylated in FP vs FN
cg19707326	0.375	0.628	-0.254	6e-04	NA	Hypomethylated in FP vs FN
cg04123310	0.566	0.825	-0.259	6e-04	NA	Hypomethylated in FP vs FN
cg18861572	0.198	0.450	-0.252	6e-04	NA	Hypomethylated in FP vs FN
cg07741162	0.355	0.634	-0.279	6e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19624318	0.410	0.670	-0.260	6e-04	NA	Hypomethylated in FP vs FN
cg08827307	0.249	0.587	-0.338	6e-04	ADAM32	Hypomethylated in FP vs FN
cg10693616	0.096	0.384	-0.288	6e-04	NA	Hypomethylated in FP vs FN
cg01387036	0.280	0.548	-0.268	6e-04	CCL1	Hypomethylated in FP vs FN
cg02309230	0.408	0.659	-0.251	6e-04	NA	Hypomethylated in FP vs FN
cg17507887	0.206	0.484	-0.277	6e-04	TFAP2B	Hypomethylated in FP vs FN
cg14451926	0.279	0.603	-0.324	6e-04	NA	Hypomethylated in FP vs FN
cg14530382	0.141	0.449	-0.308	6e-04	NA	Hypomethylated in FP vs FN
cg27521476	0.486	0.746	-0.260	6e-04	NA	Hypomethylated in FP vs FN
cg05139788	0.396	0.680	-0.284	6e-04	NA	Hypomethylated in FP vs FN
cg15989981	0.247	0.529	-0.283	6e-04	GJA3	Hypomethylated in FP vs FN
cg19694519	0.526	0.792	-0.265	6e-04	NA	Hypomethylated in FP vs FN
cg02635482	0.332	0.639	-0.307	6e-04	NA	Hypomethylated in FP vs FN
cg13451356	0.174	0.468	-0.295	6e-04	NA	Hypomethylated in FP vs FN
cg10282319	0.399	0.654	-0.255	6e-04	NA	Hypomethylated in FP vs FN
cg26786037	0.419	0.677	-0.258	6e-04	MYO1H	Hypomethylated in FP vs FN
cg02587673	0.448	0.700	-0.253	6e-04	NA	Hypomethylated in FP vs FN
cg06783429	0.436	0.743	-0.307	6e-04	NA	Hypomethylated in FP vs FN
cg19211853	0.356	0.644	-0.289	6e-04	NA	Hypomethylated in FP vs FN
cg24879782	0.582	0.836	-0.254	6e-04	NA	Hypomethylated in FP vs FN
cg08835464	0.358	0.620	-0.263	6e-04	NA	Hypomethylated in FP vs FN
cg04993112	0.379	0.643	-0.264	6e-04	SPRR2A	Hypomethylated in FP vs FN
cg22816857	0.382	0.689	-0.307	6e-04	NA	Hypomethylated in FP vs FN
cg10821845	0.116	0.421	-0.305	6e-04	NA	Hypomethylated in FP vs FN
cg21300895	0.355	0.619	-0.263	6e-04	MYEOV2	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02079551	0.390	0.660	-0.270	6e-04	NA	Hypomethylated in FP vs FN
cg22812413	0.384	0.634	-0.250	6e-04	NA	Hypomethylated in FP vs FN
cg05965392	0.140	0.415	-0.275	6e-04	FAM150A	Hypomethylated in FP vs FN
cg24151995	0.206	0.477	-0.271	6e-04	NA	Hypomethylated in FP vs FN
cg22019177	0.404	0.661	-0.257	6e-04	NA	Hypomethylated in FP vs FN
cg05120716	0.332	0.603	-0.272	6e-04	NA	Hypomethylated in FP vs FN
cg02448276	0.082	0.334	-0.251	6e-04	NA	Hypomethylated in FP vs FN
cg27064337	0.346	0.623	-0.277	6e-04	NA	Hypomethylated in FP vs FN
cg24166450	0.307	0.574	-0.268	6e-04	NA	Hypomethylated in FP vs FN
cg26882164	0.361	0.658	-0.297	6e-04	NA	Hypomethylated in FP vs FN
cg06139341	0.210	0.485	-0.275	6e-04	NA	Hypomethylated in FP vs FN
cg21932672	0.477	0.753	-0.276	6e-04	NA	Hypomethylated in FP vs FN
cg05879498	0.169	0.477	-0.307	6e-04	SCAND3	Hypomethylated in FP vs FN
cg03650429	0.306	0.628	-0.322	6e-04	NA	Hypomethylated in FP vs FN
cg13921444	0.326	0.597	-0.271	6e-04	SORBS2	Hypomethylated in FP vs FN
cg14527456	0.140	0.484	-0.344	6e-04	NA	Hypomethylated in FP vs FN
cg03099208	0.314	0.608	-0.294	6e-04	NA	Hypomethylated in FP vs FN
cg24740868	0.202	0.509	-0.307	6e-04	C1orf87	Hypomethylated in FP vs FN
cg15999833	0.443	0.730	-0.288	6e-04	NA	Hypomethylated in FP vs FN
cg04171235	0.474	0.743	-0.269	6e-04	NA	Hypomethylated in FP vs FN
cg03903246	0.408	0.660	-0.252	6e-04	NA	Hypomethylated in FP vs FN
cg09696159	0.485	0.766	-0.281	6e-04	NA	Hypomethylated in FP vs FN
cg03692651	0.287	0.666	-0.380	6e-04	NA	Hypomethylated in FP vs FN
cg16081281	0.204	0.462	-0.257	6e-04	NA	Hypomethylated in FP vs FN
cg03287940	0.369	0.680	-0.311	6e-04	THRB	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06686742	0.501	0.757	-0.256	6e-04	LASS4	Hypomethylated in FP vs FN
cg08050656	0.340	0.605	-0.265	6e-04	SERPINB11	Hypomethylated in FP vs FN
cg24926465	0.362	0.631	-0.268	6e-04	KCNAB1	Hypomethylated in FP vs FN
cg06294700	0.352	0.647	-0.294	6e-04	NA	Hypomethylated in FP vs FN
cg04211018	0.415	0.700	-0.285	6e-04	NA	Hypomethylated in FP vs FN
cg11282657	0.127	0.402	-0.276	6e-04	NA	Hypomethylated in FP vs FN
cg15339231	0.259	0.571	-0.312	6e-04	NA	Hypomethylated in FP vs FN
cg04217706	0.329	0.645	-0.316	6e-04	NA	Hypomethylated in FP vs FN
cg08214423	0.204	0.529	-0.325	6e-04	NA	Hypomethylated in FP vs FN
cg22669623	0.113	0.462	-0.349	6e-04	NA	Hypomethylated in FP vs FN
cg02596153	0.192	0.499	-0.308	6e-04	NA	Hypomethylated in FP vs FN
cg15963070	0.437	0.704	-0.267	6e-04	NA	Hypomethylated in FP vs FN
cg17366294	0.221	0.552	-0.331	6e-04	C4orf37	Hypomethylated in FP vs FN
cg05671350	0.317	0.598	-0.280	6e-04	NA	Hypomethylated in FP vs FN
cg18556834	0.176	0.479	-0.303	6e-04	REC8	Hypomethylated in FP vs FN
cg05096161	0.215	0.488	-0.273	6e-04	MIR152	Hypomethylated in FP vs FN
cg07270021	0.526	0.778	-0.252	6e-04	NA	Hypomethylated in FP vs FN
cg09494646	0.431	0.687	-0.256	6e-04	MIR33B	Hypomethylated in FP vs FN
cg03094481	0.082	0.371	-0.289	6e-04	NA	Hypomethylated in FP vs FN
cg03816707	0.313	0.611	-0.298	6e-04	NA	Hypomethylated in FP vs FN
cg24404630	0.166	0.458	-0.291	6e-04	C18orf1	Hypomethylated in FP vs FN
cg16964348	0.102	0.431	-0.329	6e-04	NPY	Hypomethylated in FP vs FN
cg08712336	0.260	0.529	-0.269	6e-04	NA	Hypomethylated in FP vs FN
cg05988147	0.451	0.710	-0.259	6e-04	NA	Hypomethylated in FP vs FN
cg20892260	0.194	0.523	-0.329	6e-04	NKX2-6	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20308679	0.098	0.386	-0.288	6e-04	FRZB	Hypomethylated in FP vs FN
cg01656244	0.427	0.687	-0.261	6e-04	NA	Hypomethylated in FP vs FN
cg04724807	0.361	0.617	-0.256	6e-04	NA	Hypomethylated in FP vs FN
cg02194223	0.155	0.433	-0.277	6e-04	NA	Hypomethylated in FP vs FN
cg16654603	0.266	0.519	-0.253	6e-04	NA	Hypomethylated in FP vs FN
cg12161887	0.476	0.741	-0.265	7e-04	NA	Hypomethylated in FP vs FN
cg01682021	0.123	0.421	-0.297	7e-04	LOC441046	Hypomethylated in FP vs FN
cg17391194	0.412	0.702	-0.289	7e-04	NA	Hypomethylated in FP vs FN
cg22851691	0.261	0.556	-0.294	7e-04	NA	Hypomethylated in FP vs FN
cg02179455	0.143	0.411	-0.268	7e-04	NA	Hypomethylated in FP vs FN
cg10199250	0.237	0.523	-0.285	7e-04	LVRN	Hypomethylated in FP vs FN
cg12193927	0.176	0.429	-0.254	7e-04	PCDHB10	Hypomethylated in FP vs FN
cg18524934	0.295	0.616	-0.321	7e-04	NA	Hypomethylated in FP vs FN
cg14508358	0.266	0.594	-0.329	7e-04	NA	Hypomethylated in FP vs FN
cg09601584	0.372	0.651	-0.280	7e-04	NA	Hypomethylated in FP vs FN
cg14233507	0.237	0.510	-0.273	7e-04	SKAP1	Hypomethylated in FP vs FN
cg01678472	0.256	0.522	-0.266	7e-04	NA	Hypomethylated in FP vs FN
cg26578923	0.113	0.414	-0.300	7e-04	GNMT	Hypomethylated in FP vs FN
cg08311935	0.244	0.532	-0.288	7e-04	NA	Hypomethylated in FP vs FN
cg06009215	0.394	0.669	-0.275	7e-04	NA	Hypomethylated in FP vs FN
cg20171396	0.251	0.549	-0.298	7e-04	NA	Hypomethylated in FP vs FN
cg21429408	0.236	0.502	-0.266	7e-04	NA	Hypomethylated in FP vs FN
cg27587935	0.424	0.678	-0.253	7e-04	NA	Hypomethylated in FP vs FN
cg16290522	0.469	0.721	-0.253	7e-04	NA	Hypomethylated in FP vs FN
cg02098786	0.269	0.574	-0.305	7e-04	NA	Hypomethylated in FP vs FN

**Supplementary Table 7 (continued)**

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg12782180	0.446	0.750	-0.304	7e-04	LEP	Hypomethylated in FP vs FN
cg10786645	0.202	0.484	-0.282	7e-04	NA	Hypomethylated in FP vs FN
cg10746542	0.217	0.502	-0.285	7e-04	NA	Hypomethylated in FP vs FN
cg09938213	0.247	0.515	-0.269	7e-04	NA	Hypomethylated in FP vs FN
cg05639912	0.092	0.403	-0.311	7e-04	NA	Hypomethylated in FP vs FN
cg22926923	0.496	0.759	-0.264	7e-04	NA	Hypomethylated in FP vs FN
cg21623566	0.154	0.427	-0.273	7e-04	NA	Hypomethylated in FP vs FN
cg01214458	0.464	0.731	-0.267	7e-04	MN1	Hypomethylated in FP vs FN
cg24109679	0.129	0.389	-0.260	7e-04	FLJ11235	Hypomethylated in FP vs FN
cg22489957	0.395	0.656	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg20987610	0.397	0.651	-0.253	7e-04	CDH17	Hypomethylated in FP vs FN
cg03444122	0.478	0.735	-0.257	7e-04	TRIML1	Hypomethylated in FP vs FN
cg23642130	0.208	0.497	-0.289	7e-04	NA	Hypomethylated in FP vs FN
cg17536595	0.262	0.612	-0.350	7e-04	RSPH9	Hypomethylated in FP vs FN
cg24023487	0.295	0.595	-0.301	7e-04	SPTLC3	Hypomethylated in FP vs FN
cg25793597	0.538	0.789	-0.250	7e-04	NA	Hypomethylated in FP vs FN
cg07960922	0.431	0.700	-0.269	7e-04	NA	Hypomethylated in FP vs FN
cg14486477	0.313	0.578	-0.265	7e-04	NA	Hypomethylated in FP vs FN
cg04766371	0.293	0.609	-0.316	7e-04	NA	Hypomethylated in FP vs FN
cg17439009	0.385	0.669	-0.283	7e-04	ATF7IP	Hypomethylated in FP vs FN
cg18180107	0.141	0.434	-0.294	7e-04	C4orf37	Hypomethylated in FP vs FN
cg27089768	0.177	0.468	-0.291	7e-04	TCL1A	Hypomethylated in FP vs FN
cg00130947	0.466	0.721	-0.255	7e-04	NA	Hypomethylated in FP vs FN
cg22473637	0.245	0.545	-0.300	7e-04	MCHR2	Hypomethylated in FP vs FN
cg11658060	0.371	0.621	-0.250	7e-04	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08268099	0.361	0.612	-0.251	7e-04	OLFM1	Hypomethylated in FP vs FN
cg09852127	0.447	0.705	-0.258	7e-04	PCDHA12	Hypomethylated in FP vs FN
cg00991744	0.404	0.683	-0.279	7e-04	PDZRN4	Hypomethylated in FP vs FN
cg10997479	0.304	0.565	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg11862714	0.522	0.785	-0.263	7e-04	NA	Hypomethylated in FP vs FN
cg07651720	0.337	0.604	-0.267	7e-04	NA	Hypomethylated in FP vs FN
cg01313176	0.335	0.601	-0.266	7e-04	NA	Hypomethylated in FP vs FN
cg02983950	0.127	0.460	-0.333	7e-04	NA	Hypomethylated in FP vs FN
cg14200170	0.119	0.408	-0.290	7e-04	ADCYAP1	Hypomethylated in FP vs FN
cg06495961	0.283	0.606	-0.323	7e-04	DPP6	Hypomethylated in FP vs FN
cg07655479	0.146	0.436	-0.291	7e-04	LOC441046	Hypomethylated in FP vs FN
cg07523753	0.392	0.661	-0.268	7e-04	NA	Hypomethylated in FP vs FN
cg20594809	0.173	0.431	-0.258	7e-04	NA	Hypomethylated in FP vs FN
cg26076858	0.470	0.763	-0.293	7e-04	NA	Hypomethylated in FP vs FN
cg24488311	0.408	0.666	-0.258	7e-04	NA	Hypomethylated in FP vs FN
cg16053651	0.508	0.769	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg22040202	0.322	0.586	-0.264	7e-04	NA	Hypomethylated in FP vs FN
cg15489294	0.273	0.557	-0.284	7e-04	LVRN	Hypomethylated in FP vs FN
cg11485595	0.139	0.420	-0.281	7e-04	NA	Hypomethylated in FP vs FN
cg10420161	0.371	0.655	-0.284	7e-04	NA	Hypomethylated in FP vs FN
cg08973102	0.139	0.409	-0.270	7e-04	GCA	Hypomethylated in FP vs FN
cg13716585	0.513	0.769	-0.256	7e-04	NA	Hypomethylated in FP vs FN
cg21305471	0.091	0.358	-0.267	7e-04	ZNF671	Hypomethylated in FP vs FN
cg07078225	0.339	0.710	-0.371	7e-04	NA	Hypomethylated in FP vs FN
cg07114810	0.376	0.634	-0.258	7e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg26668989	0.265	0.536	-0.271	7e-04	NA	Hypomethylated in FP vs FN
cg01214340	0.347	0.682	-0.335	7e-04	PHF11	Hypomethylated in FP vs FN
cg15090005	0.179	0.479	-0.300	7e-04	NA	Hypomethylated in FP vs FN
cg16290689	0.232	0.519	-0.287	7e-04	C13orf26	Hypomethylated in FP vs FN
cg09686443	0.141	0.433	-0.292	7e-04	CCDC37	Hypomethylated in FP vs FN
cg20180247	0.158	0.419	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg18051527	0.434	0.690	-0.256	7e-04	NA	Hypomethylated in FP vs FN
cg08791424	0.565	0.826	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg02438026	0.281	0.539	-0.257	7e-04	NA	Hypomethylated in FP vs FN
cg06685724	0.265	0.545	-0.280	7e-04	NA	Hypomethylated in FP vs FN
cg09065113	0.314	0.574	-0.260	7e-04	NA	Hypomethylated in FP vs FN
cg16536329	0.095	0.367	-0.272	7e-04	ZNF454	Hypomethylated in FP vs FN
cg15412446	0.162	0.440	-0.278	7e-04	NA	Hypomethylated in FP vs FN
cg25751895	0.142	0.467	-0.325	7e-04	GCA	Hypomethylated in FP vs FN
cg00109131	0.423	0.676	-0.253	7e-04	SLC36A3	Hypomethylated in FP vs FN
cg00884334	0.142	0.433	-0.290	7e-04	NA	Hypomethylated in FP vs FN
cg06110297	0.239	0.497	-0.258	7e-04	NA	Hypomethylated in FP vs FN
cg13923371	0.289	0.582	-0.293	7e-04	NA	Hypomethylated in FP vs FN
cg18068140	0.499	0.765	-0.267	7e-04	NHLRC1	Hypomethylated in FP vs FN
cg07339393	0.591	0.842	-0.250	7e-04	NA	Hypomethylated in FP vs FN
cg01524278	0.484	0.745	-0.261	7e-04	NA	Hypomethylated in FP vs FN
cg17099568	0.399	0.666	-0.267	7e-04	NA	Hypomethylated in FP vs FN
cg20186067	0.281	0.607	-0.326	7e-04	NA	Hypomethylated in FP vs FN
cg11707310	0.443	0.737	-0.294	7e-04	NA	Hypomethylated in FP vs FN
cg17918326	0.497	0.759	-0.262	7e-04	C20orf4	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25017620	0.177	0.459	-0.282	7e-04	NA	Hypomethylated in FP vs FN
cg14115730	0.173	0.490	-0.317	7e-04	NA	Hypomethylated in FP vs FN
cg10579530	0.336	0.598	-0.262	7e-04	NA	Hypomethylated in FP vs FN
cg25366639	0.368	0.642	-0.274	7e-04	NA	Hypomethylated in FP vs FN
cg21729992	0.137	0.426	-0.289	7e-04	NA	Hypomethylated in FP vs FN
cg19989295	0.163	0.492	-0.330	7e-04	REC8	Hypomethylated in FP vs FN
cg00876501	0.192	0.498	-0.306	7e-04	EIF4E	Hypomethylated in FP vs FN
cg14270650	0.456	0.722	-0.266	7e-04	NA	Hypomethylated in FP vs FN
cg01073463	0.367	0.654	-0.288	7e-04	NA	Hypomethylated in FP vs FN
cg24874602	0.394	0.695	-0.301	7e-04	NA	Hypomethylated in FP vs FN
cg07823827	0.351	0.617	-0.266	7e-04	NA	Hypomethylated in FP vs FN
cg10477905	0.320	0.586	-0.265	7e-04	NA	Hypomethylated in FP vs FN
cg00014830	0.363	0.660	-0.297	7e-04	NA	Hypomethylated in FP vs FN
cg02376703	0.481	0.761	-0.280	7e-04	EPHA1	Hypomethylated in FP vs FN
cg04049008	0.405	0.671	-0.266	8e-04	NA	Hypomethylated in FP vs FN
cg09410453	0.362	0.616	-0.254	8e-04	NA	Hypomethylated in FP vs FN
cg23981871	0.488	0.750	-0.263	8e-04	HOXD3	Hypomethylated in FP vs FN
cg23087108	0.380	0.692	-0.312	8e-04	NA	Hypomethylated in FP vs FN
cg00017842	0.248	0.558	-0.310	8e-04	NA	Hypomethylated in FP vs FN
cg00424169	0.256	0.541	-0.285	8e-04	C13orf26	Hypomethylated in FP vs FN
cg24603408	0.268	0.532	-0.264	8e-04	NA	Hypomethylated in FP vs FN
cg13969327	0.331	0.587	-0.256	8e-04	NA	Hypomethylated in FP vs FN
cg26304948	0.387	0.651	-0.264	8e-04	NA	Hypomethylated in FP vs FN
cg19246110	0.087	0.400	-0.313	8e-04	ZNF671	Hypomethylated in FP vs FN
cg02273398	0.204	0.530	-0.326	8e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg23113350	0.324	0.578	-0.254	8e-04	TGFBR3	Hypomethylated in FP vs FN
cg15040157	0.173	0.425	-0.251	8e-04	NA	Hypomethylated in FP vs FN
cg27622506	0.255	0.579	-0.324	8e-04	THRB	Hypomethylated in FP vs FN
cg22904048	0.322	0.584	-0.263	8e-04	NA	Hypomethylated in FP vs FN
cg17989833	0.305	0.587	-0.282	8e-04	NA	Hypomethylated in FP vs FN
cg03314963	0.326	0.613	-0.287	8e-04	PTN	Hypomethylated in FP vs FN
cg07106615	0.325	0.599	-0.274	8e-04	TP53BP1	Hypomethylated in FP vs FN
cg15736524	0.334	0.598	-0.264	8e-04	NA	Hypomethylated in FP vs FN
cg18919097	0.221	0.485	-0.264	8e-04	C3orf57	Hypomethylated in FP vs FN
cg22881652	0.205	0.508	-0.304	8e-04	NA	Hypomethylated in FP vs FN
cg20219381	0.244	0.592	-0.348	8e-04	NA	Hypomethylated in FP vs FN
cg03348792	0.281	0.550	-0.269	8e-04	KRT1	Hypomethylated in FP vs FN
cg00201414	0.276	0.596	-0.319	8e-04	THSD1P	Hypomethylated in FP vs FN
cg22949256	0.434	0.700	-0.266	8e-04	NA	Hypomethylated in FP vs FN
cg09272186	0.451	0.715	-0.264	8e-04	NA	Hypomethylated in FP vs FN
cg04515001	0.273	0.625	-0.352	8e-04	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg06645921	0.384	0.664	-0.280	8e-04	NA	Hypomethylated in FP vs FN
cg02589791	0.163	0.462	-0.300	8e-04	NA	Hypomethylated in FP vs FN
cg20510474	0.391	0.650	-0.260	8e-04	NA	Hypomethylated in FP vs FN
cg09222982	0.261	0.537	-0.276	8e-04	NA	Hypomethylated in FP vs FN
cg26205771	0.159	0.438	-0.279	8e-04	NPBWR1	Hypomethylated in FP vs FN
cg09571762	0.197	0.452	-0.255	8e-04	NA	Hypomethylated in FP vs FN
cg09541256	0.206	0.520	-0.314	8e-04	RUNX2	Hypomethylated in FP vs FN
cg21884509	0.221	0.483	-0.262	8e-04	NA	Hypomethylated in FP vs FN
cg11037477	0.201	0.512	-0.311	8e-04	EIF4E	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07102210	0.308	0.563	-0.255	8e-04	NA	Hypomethylated in FP vs FN
cg04600618	0.210	0.527	-0.317	8e-04	RSPH9	Hypomethylated in FP vs FN
cg04722391	0.258	0.574	-0.316	8e-04	NA	Hypomethylated in FP vs FN
cg00901051	0.438	0.723	-0.285	8e-04	NA	Hypomethylated in FP vs FN
cg10197305	0.116	0.401	-0.285	8e-04	NA	Hypomethylated in FP vs FN
cg10109500	0.159	0.446	-0.287	8e-04	GHSR	Hypomethylated in FP vs FN
cg25162948	0.375	0.670	-0.295	8e-04	NA	Hypomethylated in FP vs FN
cg15731056	0.123	0.451	-0.328	8e-04	C12orf56	Hypomethylated in FP vs FN
cg14710465	0.246	0.507	-0.260	8e-04	VANGL2	Hypomethylated in FP vs FN
cg16298867	0.488	0.743	-0.255	8e-04	NA	Hypomethylated in FP vs FN
cg01094687	0.438	0.703	-0.265	8e-04	NA	Hypomethylated in FP vs FN
cg14302214	0.354	0.648	-0.293	8e-04	NA	Hypomethylated in FP vs FN
cg23823908	0.203	0.477	-0.275	8e-04	PTGER3	Hypomethylated in FP vs FN
cg08024029	0.200	0.501	-0.301	8e-04	NA	Hypomethylated in FP vs FN
cg12118246	0.400	0.690	-0.290	8e-04	CD300A	Hypomethylated in FP vs FN
cg16297011	0.243	0.562	-0.319	8e-04	NA	Hypomethylated in FP vs FN
cg13929328	0.284	0.642	-0.358	8e-04	FOXI2	Hypomethylated in FP vs FN
cg26248173	0.310	0.675	-0.365	8e-04	NA	Hypomethylated in FP vs FN
cg17769084	0.356	0.689	-0.333	8e-04	NA	Hypomethylated in FP vs FN
cg06361667	0.433	0.713	-0.279	8e-04	NA	Hypomethylated in FP vs FN
cg24480120	0.154	0.432	-0.278	8e-04	NA	Hypomethylated in FP vs FN
cg07143418	0.062	0.363	-0.301	8e-04	NA	Hypomethylated in FP vs FN
cg03174644	0.378	0.648	-0.271	8e-04	NA	Hypomethylated in FP vs FN
cg05482942	0.391	0.718	-0.327	8e-04	NA	Hypomethylated in FP vs FN
cg16943529	0.136	0.427	-0.291	8e-04	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24990968	0.168	0.423	-0.255	8e-04	C12orf56	Hypomethylated in FP vs FN
cg02226645	0.311	0.574	-0.263	8e-04	MIR124-2	Hypomethylated in FP vs FN
cg14645841	0.405	0.679	-0.274	8e-04	NA	Hypomethylated in FP vs FN
cg02106866	0.484	0.749	-0.265	8e-04	NA	Hypomethylated in FP vs FN
cg01697865	0.339	0.592	-0.253	8e-04	IL10RA	Hypomethylated in FP vs FN
cg06902071	0.268	0.548	-0.280	8e-04	NA	Hypomethylated in FP vs FN
cg19593741	0.361	0.636	-0.275	8e-04	NA	Hypomethylated in FP vs FN
cg07695654	0.453	0.727	-0.274	8e-04	NA	Hypomethylated in FP vs FN
cg23610453	0.193	0.451	-0.258	8e-04	NA	Hypomethylated in FP vs FN
cg23037403	0.097	0.355	-0.258	8e-04	ZNF454	Hypomethylated in FP vs FN
cg12655921	0.436	0.694	-0.258	8e-04	NA	Hypomethylated in FP vs FN
cg17781313	0.190	0.476	-0.286	8e-04	NA	Hypomethylated in FP vs FN
cg10989897	0.147	0.447	-0.301	8e-04	ELAVL4	Hypomethylated in FP vs FN
cg10228857	0.384	0.662	-0.277	9e-04	NA	Hypomethylated in FP vs FN
cg18659248	0.427	0.701	-0.274	9e-04	NA	Hypomethylated in FP vs FN
cg21970789	0.382	0.670	-0.288	9e-04	NA	Hypomethylated in FP vs FN
cg21045464	0.464	0.745	-0.280	9e-04	NA	Hypomethylated in FP vs FN
cg08500510	0.325	0.584	-0.259	9e-04	NA	Hypomethylated in FP vs FN
cg22685807	0.274	0.601	-0.327	9e-04	NA	Hypomethylated in FP vs FN
cg17678847	0.437	0.704	-0.267	9e-04	NA	Hypomethylated in FP vs FN
cg27294008	0.348	0.619	-0.272	9e-04	NA	Hypomethylated in FP vs FN
cg07150062	0.204	0.542	-0.338	9e-04	ASPG	Hypomethylated in FP vs FN
cg05090759	0.251	0.588	-0.337	9e-04	SLC38A11	Hypomethylated in FP vs FN
cg07475000	0.273	0.529	-0.256	9e-04	NA	Hypomethylated in FP vs FN
cg25692524	0.242	0.506	-0.264	9e-04	THSD1P	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20312228	0.172	0.426	-0.254	9e-04	CCDC37	Hypomethylated in FP vs FN
cg10753836	0.326	0.610	-0.283	9e-04	NA	Hypomethylated in FP vs FN
cg13605988	0.166	0.421	-0.256	9e-04	DUOX1	Hypomethylated in FP vs FN
cg08322234	0.274	0.564	-0.290	9e-04	NA	Hypomethylated in FP vs FN
cg05552035	0.318	0.579	-0.261	9e-04	NA	Hypomethylated in FP vs FN
cg20424335	0.398	0.653	-0.256	9e-04	LOC100130776	Hypomethylated in FP vs FN
cg23088184	0.181	0.496	-0.315	9e-04	NA	Hypomethylated in FP vs FN
cg08247587	0.306	0.595	-0.288	9e-04	NA	Hypomethylated in FP vs FN
cg08638184	0.288	0.553	-0.264	9e-04	NA	Hypomethylated in FP vs FN
cg24507144	0.214	0.509	-0.295	9e-04	NA	Hypomethylated in FP vs FN
cg00423153	0.383	0.675	-0.293	9e-04	SPHKAP	Hypomethylated in FP vs FN
cg06122518	0.353	0.619	-0.266	9e-04	NA	Hypomethylated in FP vs FN
cg01429039	0.343	0.696	-0.353	9e-04	NA	Hypomethylated in FP vs FN
cg02218200	0.272	0.555	-0.283	9e-04	NA	Hypomethylated in FP vs FN
cg26823666	0.264	0.528	-0.264	9e-04	NA	Hypomethylated in FP vs FN
cg25440035	0.161	0.489	-0.329	9e-04	NA	Hypomethylated in FP vs FN
cg22855900	0.185	0.529	-0.344	9e-04	NA	Hypomethylated in FP vs FN
cg00286984	0.217	0.501	-0.284	9e-04	HRASLS5	Hypomethylated in FP vs FN
cg18527583	0.253	0.531	-0.278	9e-04	NA	Hypomethylated in FP vs FN
cg24054871	0.382	0.643	-0.260	9e-04	NA	Hypomethylated in FP vs FN
cg24582934	0.164	0.481	-0.317	9e-04	NA	Hypomethylated in FP vs FN
cg24889708	0.410	0.706	-0.296	9e-04	NA	Hypomethylated in FP vs FN
cg14489474	0.236	0.506	-0.270	9e-04	NA	Hypomethylated in FP vs FN
cg03188390	0.366	0.623	-0.257	9e-04	NA	Hypomethylated in FP vs FN
cg08048222	0.115	0.401	-0.286	9e-04	ZNF671	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19024632	0.298	0.618	-0.320	9e-04	KCNS3	Hypomethylated in FP vs FN
cg01613817	0.308	0.575	-0.267	9e-04	ERG	Hypomethylated in FP vs FN
cg13065507	0.262	0.555	-0.292	9e-04	NA	Hypomethylated in FP vs FN
cg23997263	0.249	0.499	-0.251	9e-04	FUT9	Hypomethylated in FP vs FN
cg23248887	0.260	0.657	-0.397	9e-04	NA	Hypomethylated in FP vs FN
cg02864619	0.530	0.786	-0.256	9e-04	NA	Hypomethylated in FP vs FN
cg21398794	0.312	0.609	-0.297	9e-04	NA	Hypomethylated in FP vs FN
cg06313119	0.075	0.333	-0.259	9e-04	NA	Hypomethylated in FP vs FN
cg00961325	0.393	0.676	-0.283	9e-04	NA	Hypomethylated in FP vs FN
cg02458689	0.414	0.671	-0.257	9e-04	CGREF1	Hypomethylated in FP vs FN
cg04842553	0.289	0.541	-0.252	9e-04	CCDC104	Hypomethylated in FP vs FN
cg25220063	0.209	0.460	-0.252	9e-04	NA	Hypomethylated in FP vs FN
cg18202449	0.135	0.399	-0.263	9e-04	ELAVL4	Hypomethylated in FP vs FN
cg05690644	0.400	0.723	-0.323	9e-04	NA	Hypomethylated in FP vs FN
cg27382405	0.190	0.519	-0.330	9e-04	NA	Hypomethylated in FP vs FN
cg21731375	0.271	0.568	-0.297	9e-04	NA	Hypomethylated in FP vs FN
cg16174121	0.390	0.641	-0.251	9e-04	AGBL2	Hypomethylated in FP vs FN
cg02534072	0.263	0.531	-0.268	9e-04	NA	Hypomethylated in FP vs FN
cg15337154	0.262	0.540	-0.278	9e-04	NA	Hypomethylated in FP vs FN
cg14972143	0.160	0.487	-0.327	9e-04	EIF4E	Hypomethylated in FP vs FN
cg14266237	0.445	0.723	-0.278	9e-04	NA	Hypomethylated in FP vs FN
cg19737970	0.339	0.594	-0.255	9e-04	LOC100192379	Hypomethylated in FP vs FN
cg14704980	0.329	0.628	-0.299	9e-04	NA	Hypomethylated in FP vs FN
cg24080577	0.112	0.444	-0.333	9e-04	HS3ST1	Hypomethylated in FP vs FN
cg12389461	0.355	0.611	-0.257	9e-04	RASSF2	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21838554	0.490	0.752	-0.263	9e-04	NA	Hypomethylated in FP vs FN
cg07360304	0.391	0.643	-0.252	9e-04	NA	Hypomethylated in FP vs FN
cg13867865	0.093	0.401	-0.309	9e-04	C12orf56	Hypomethylated in FP vs FN
cg26029902	0.323	0.588	-0.265	1e-03	RAB22A	Hypomethylated in FP vs FN
cg12047425	0.598	0.852	-0.254	1e-03	ALPL	Hypomethylated in FP vs FN
cg14482308	0.244	0.597	-0.353	1e-03	KCNS3	Hypomethylated in FP vs FN
cg16076328	0.355	0.675	-0.320	1e-03	NA	Hypomethylated in FP vs FN
cg02681163	0.420	0.686	-0.266	1e-03	NA	Hypomethylated in FP vs FN
cg12922492	0.394	0.649	-0.255	1e-03	NA	Hypomethylated in FP vs FN
cg05982460	0.254	0.557	-0.303	1e-03	NA	Hypomethylated in FP vs FN
cg04967578	0.527	0.785	-0.258	1e-03	NA	Hypomethylated in FP vs FN
cg00146805	0.421	0.686	-0.265	1e-03	NA	Hypomethylated in FP vs FN
cg02281167	0.220	0.479	-0.259	1e-03	NA	Hypomethylated in FP vs FN
cg06317507	0.416	0.693	-0.277	1e-03	NA	Hypomethylated in FP vs FN
cg11203512	0.346	0.660	-0.314	1e-03	NA	Hypomethylated in FP vs FN
cg10256242	0.445	0.753	-0.308	1e-03	NA	Hypomethylated in FP vs FN
cg14181576	0.348	0.673	-0.326	1e-03	NA	Hypomethylated in FP vs FN
cg21651328	0.258	0.579	-0.321	1e-03	NA	Hypomethylated in FP vs FN
cg07137955	0.119	0.436	-0.317	1e-03	NA	Hypomethylated in FP vs FN
cg23757446	0.170	0.469	-0.299	1e-03	ONECUT2	Hypomethylated in FP vs FN
cg21611810	0.304	0.615	-0.311	1e-03	TBX5	Hypomethylated in FP vs FN
cg17628717	0.405	0.660	-0.255	1e-03	NA	Hypomethylated in FP vs FN
cg22517735	0.067	0.342	-0.274	1e-03	HAND2	Hypomethylated in FP vs FN
cg16960593	0.332	0.599	-0.266	1e-03	LPA	Hypomethylated in FP vs FN
cg08708599	0.140	0.465	-0.325	1e-03	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg18693673	0.322	0.622	-0.300	0.001	ZSCAN18	Hypomethylated in FP vs FN
cg04682135	0.339	0.609	-0.270	0.001	C3orf55	Hypomethylated in FP vs FN
cg13021619	0.184	0.534	-0.349	0.001	NKX2-6	Hypomethylated in FP vs FN
cg15279364	0.467	0.726	-0.259	0.001	NA	Hypomethylated in FP vs FN
cg06346388	0.321	0.605	-0.284	0.001	NA	Hypomethylated in FP vs FN
cg21972430	0.130	0.387	-0.257	0.001	TPD52L1	Hypomethylated in FP vs FN
cg10477621	0.405	0.684	-0.278	0.001	FERD3L	Hypomethylated in FP vs FN
cg15908152	0.277	0.589	-0.311	0.001	NA	Hypomethylated in FP vs FN
cg13005202	0.267	0.559	-0.291	0.001	NA	Hypomethylated in FP vs FN
cg23847109	0.078	0.447	-0.369	0.001	COL9A2	Hypomethylated in FP vs FN
cg15523958	0.152	0.430	-0.277	0.001	NA	Hypomethylated in FP vs FN
cg19597170	0.290	0.543	-0.253	0.001	NA	Hypomethylated in FP vs FN
cg16976370	0.126	0.434	-0.308	0.001	GABRA4	Hypomethylated in FP vs FN
cg22978620	0.134	0.414	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg06610376	0.262	0.544	-0.282	0.001	NA	Hypomethylated in FP vs FN
cg05661042	0.451	0.730	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg21711545	0.401	0.658	-0.257	0.001	NA	Hypomethylated in FP vs FN
cg11201710	0.173	0.456	-0.283	0.001	NA	Hypomethylated in FP vs FN
cg26710722	0.123	0.407	-0.284	0.001	COL9A2	Hypomethylated in FP vs FN
cg03803541	0.186	0.516	-0.330	0.001	NA	Hypomethylated in FP vs FN
cg19683417	0.421	0.677	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg01321673	0.397	0.649	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg08112929	0.395	0.650	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg16269733	0.249	0.573	-0.324	0.001	NA	Hypomethylated in FP vs FN
cg13421062	0.193	0.464	-0.271	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02386159	0.133	0.385	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg08270005	0.335	0.597	-0.262	0.001	NA	Hypomethylated in FP vs FN
cg00064296	0.429	0.691	-0.262	0.001	NA	Hypomethylated in FP vs FN
cg15898116	0.412	0.667	-0.256	0.001	NA	Hypomethylated in FP vs FN
cg25392692	0.315	0.636	-0.321	0.001	NA	Hypomethylated in FP vs FN
cg05184519	0.314	0.604	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg20040488	0.325	0.597	-0.272	0.001	NA	Hypomethylated in FP vs FN
cg09208611	0.141	0.394	-0.253	0.001	AVPR1A	Hypomethylated in FP vs FN
cg23009355	0.537	0.830	-0.293	0.001	GAL	Hypomethylated in FP vs FN
cg04451736	0.439	0.720	-0.281	0.001	NA	Hypomethylated in FP vs FN
cg12584100	0.144	0.459	-0.315	0.001	NA	Hypomethylated in FP vs FN
cg02939659	0.465	0.770	-0.305	0.001	NA	Hypomethylated in FP vs FN
cg27361370	0.408	0.712	-0.304	0.001	NA	Hypomethylated in FP vs FN
cg08332658	0.130	0.447	-0.317	0.001	NA	Hypomethylated in FP vs FN
cg15584788	0.268	0.555	-0.287	0.001	RNF207	Hypomethylated in FP vs FN
cg09982773	0.375	0.672	-0.297	0.001	KCP	Hypomethylated in FP vs FN
cg10838664	0.051	0.351	-0.300	0.001	NA	Hypomethylated in FP vs FN
cg01786715	0.179	0.457	-0.278	0.001	HSPA2	Hypomethylated in FP vs FN
cg12630714	0.180	0.453	-0.273	0.001	NA	Hypomethylated in FP vs FN
cg06858835	0.421	0.713	-0.292	0.001	NA	Hypomethylated in FP vs FN
cg03381604	0.284	0.538	-0.254	0.001	NA	Hypomethylated in FP vs FN
cg09253581	0.176	0.463	-0.288	0.001	NA	Hypomethylated in FP vs FN
cg16953473	0.326	0.641	-0.315	0.001	NA	Hypomethylated in FP vs FN
cg19749660	0.307	0.598	-0.291	0.001	NA	Hypomethylated in FP vs FN
cg03840073	0.267	0.540	-0.273	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08693172	0.357	0.624	-0.267	0.001	PGLYRP1	Hypomethylated in FP vs FN
cg19828220	0.214	0.502	-0.287	0.001	HOXB6	Hypomethylated in FP vs FN
cg03716852	0.302	0.565	-0.264	0.001	NA	Hypomethylated in FP vs FN
cg03930899	0.263	0.544	-0.281	0.001	RFWD3	Hypomethylated in FP vs FN
cg02411895	0.367	0.630	-0.263	0.001	NA	Hypomethylated in FP vs FN
cg06385118	0.098	0.370	-0.272	0.001	LOC441046	Hypomethylated in FP vs FN
cg00258597	0.117	0.383	-0.267	0.001	NA	Hypomethylated in FP vs FN
cg22296593	0.496	0.749	-0.253	0.001	HOXB1	Hypomethylated in FP vs FN
cg06400704	0.275	0.576	-0.301	0.001	FMN2	Hypomethylated in FP vs FN
cg13635455	0.085	0.371	-0.286	0.001	NA	Hypomethylated in FP vs FN
cg01477253	0.439	0.715	-0.276	0.001	NA	Hypomethylated in FP vs FN
cg03807235	0.325	0.606	-0.281	0.001	NA	Hypomethylated in FP vs FN
cg08173692	0.102	0.384	-0.282	0.001	PRR18	Hypomethylated in FP vs FN
cg16581308	0.420	0.694	-0.274	0.001	NA	Hypomethylated in FP vs FN
cg15734454	0.421	0.675	-0.254	0.001	NA	Hypomethylated in FP vs FN
cg04897683	0.184	0.454	-0.270	0.001	NEUROG1	Hypomethylated in FP vs FN
cg05873889	0.103	0.415	-0.312	0.001	SERP2	Hypomethylated in FP vs FN
cg13968233	0.495	0.747	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg24871798	0.188	0.466	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg15199678	0.191	0.442	-0.251	0.001	NA	Hypomethylated in FP vs FN
cg22346476	0.291	0.600	-0.309	0.001	NA	Hypomethylated in FP vs FN
cg23933241	0.339	0.615	-0.276	0.001	NA	Hypomethylated in FP vs FN
cg20988565	0.383	0.637	-0.254	0.001	NA	Hypomethylated in FP vs FN
cg00355281	0.124	0.403	-0.279	0.001	NPY	Hypomethylated in FP vs FN
cg06592065	0.429	0.711	-0.282	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24466241	0.067	0.330	-0.263	0.001	NA	Hypomethylated in FP vs FN
cg22642777	0.209	0.477	-0.268	0.001	NA	Hypomethylated in FP vs FN
cg25669593	0.447	0.699	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg05239940	0.408	0.673	-0.265	0.001	NA	Hypomethylated in FP vs FN
cg22646995	0.291	0.547	-0.256	0.001	NA	Hypomethylated in FP vs FN
cg03464655	0.193	0.488	-0.295	0.001	SLC38A11	Hypomethylated in FP vs FN
cg13443627	0.370	0.699	-0.329	0.001	TACSTD2	Hypomethylated in FP vs FN
cg06953252	0.061	0.335	-0.274	0.001	COL9A2	Hypomethylated in FP vs FN
cg16300637	0.087	0.366	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg06382559	0.360	0.636	-0.276	0.001	NA	Hypomethylated in FP vs FN
cg01501551	0.180	0.477	-0.297	0.001	NA	Hypomethylated in FP vs FN
cg03362215	0.327	0.605	-0.278	0.001	NA	Hypomethylated in FP vs FN
cg02020945	0.124	0.388	-0.264	0.001	NA	Hypomethylated in FP vs FN
cg26915952	0.482	0.737	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg25185173	0.239	0.580	-0.341	0.001	NA	Hypomethylated in FP vs FN
cg19373813	0.447	0.712	-0.265	0.001	NA	Hypomethylated in FP vs FN
cg22345692	0.116	0.381	-0.265	0.001	NA	Hypomethylated in FP vs FN
cg06505349	0.421	0.717	-0.296	0.001	NA	Hypomethylated in FP vs FN
cg13794588	0.382	0.638	-0.256	0.001	FCN2	Hypomethylated in FP vs FN
cg10761315	0.214	0.492	-0.278	0.001	ASPG	Hypomethylated in FP vs FN
cg02294649	0.145	0.422	-0.277	0.001	NA	Hypomethylated in FP vs FN
cg02962406	0.493	0.780	-0.287	0.001	NA	Hypomethylated in FP vs FN
cg14388488	0.196	0.514	-0.318	0.001	GATA5	Hypomethylated in FP vs FN
cg06156093	0.213	0.512	-0.299	0.001	NA	Hypomethylated in FP vs FN
cg01092293	0.332	0.654	-0.322	0.001	LY75	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13000496	0.284	0.548	-0.264	0.001	NA	Hypomethylated in FP vs FN
cg24405999	0.174	0.431	-0.256	0.001	NA	Hypomethylated in FP vs FN
cg22791987	0.463	0.738	-0.275	0.001	NA	Hypomethylated in FP vs FN
cg20671415	0.392	0.647	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg07811198	0.254	0.563	-0.308	0.001	NA	Hypomethylated in FP vs FN
cg17179862	0.205	0.549	-0.344	0.001	NA	Hypomethylated in FP vs FN
cg02701278	0.330	0.673	-0.343	0.001	NA	Hypomethylated in FP vs FN
cg14716968	0.315	0.569	-0.254	0.001	DLG2	Hypomethylated in FP vs FN
cg14338887	0.101	0.378	-0.277	0.001	GNMT	Hypomethylated in FP vs FN
cg07138115	0.238	0.501	-0.263	0.001	NA	Hypomethylated in FP vs FN
cg00812299	0.170	0.467	-0.297	0.001	NA	Hypomethylated in FP vs FN
cg20457732	0.214	0.517	-0.303	0.001	NA	Hypomethylated in FP vs FN
cg03940966	0.095	0.349	-0.254	0.001	NA	Hypomethylated in FP vs FN
cg02794696	0.361	0.632	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg03726739	0.353	0.618	-0.265	0.001	NA	Hypomethylated in FP vs FN
cg16704703	0.292	0.544	-0.251	0.001	NA	Hypomethylated in FP vs FN
cg03969260	0.312	0.591	-0.280	0.001	NA	Hypomethylated in FP vs FN
cg20813798	0.350	0.620	-0.270	0.001	NA	Hypomethylated in FP vs FN
cg01923272	0.475	0.732	-0.256	0.001	NA	Hypomethylated in FP vs FN
cg26620710	0.183	0.455	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg15889913	0.295	0.606	-0.311	0.001	NA	Hypomethylated in FP vs FN
cg15712323	0.509	0.766	-0.257	0.001	NA	Hypomethylated in FP vs FN
cg08148553	0.241	0.566	-0.325	0.001	AP1M2	Hypomethylated in FP vs FN
cg27227250	0.390	0.660	-0.270	0.001	NA	Hypomethylated in FP vs FN
cg23939096	0.379	0.673	-0.294	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04545556	0.492	0.767	-0.275	0.001	NA	Hypomethylated in FP vs FN
cg01688688	0.423	0.676	-0.253	0.001	NA	Hypomethylated in FP vs FN
cg15347342	0.142	0.412	-0.270	0.001	NA	Hypomethylated in FP vs FN
cg18753440	0.234	0.486	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg10143067	0.294	0.599	-0.305	0.001	NA	Hypomethylated in FP vs FN
cg01815671	0.141	0.451	-0.310	0.001	CCDC37	Hypomethylated in FP vs FN
cg21167817	0.447	0.707	-0.260	0.001	NA	Hypomethylated in FP vs FN
cg21437028	0.443	0.709	-0.267	0.001	NA	Hypomethylated in FP vs FN
cg23429966	0.444	0.725	-0.282	0.001	NA	Hypomethylated in FP vs FN
cg24709471	0.162	0.431	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg06837981	0.426	0.705	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg17352540	0.191	0.453	-0.262	0.001	GSX1	Hypomethylated in FP vs FN
cg21303011	0.297	0.616	-0.319	0.001	THRB	Hypomethylated in FP vs FN
cg19555641	0.375	0.636	-0.261	0.001	NA	Hypomethylated in FP vs FN
cg09095892	0.460	0.740	-0.280	0.001	NA	Hypomethylated in FP vs FN
cg24613083	0.418	0.696	-0.278	0.001	NA	Hypomethylated in FP vs FN
cg24682036	0.403	0.669	-0.266	0.001	DSG2	Hypomethylated in FP vs FN
cg27177554	0.241	0.531	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg16922937	0.487	0.740	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg18502142	0.278	0.575	-0.297	0.001	NA	Hypomethylated in FP vs FN
cg24790297	0.418	0.685	-0.267	0.001	CLEC11A	Hypomethylated in FP vs FN
cg25027788	0.297	0.585	-0.288	0.001	NA	Hypomethylated in FP vs FN
cg25823085	0.243	0.526	-0.283	0.001	ABCB4	Hypomethylated in FP vs FN
cg11406274	0.395	0.666	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg15356461	0.617	0.868	-0.252	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21920871	0.326	0.584	-0.258	0.001	NA	Hypomethylated in FP vs FN
cg14367229	0.255	0.555	-0.301	0.001	NA	Hypomethylated in FP vs FN
cg24741158	0.457	0.729	-0.272	0.001	NA	Hypomethylated in FP vs FN
cg00714725	0.128	0.407	-0.279	0.001	NA	Hypomethylated in FP vs FN
cg26497348	0.248	0.506	-0.258	0.001	DSC3	Hypomethylated in FP vs FN
cg11267802	0.239	0.512	-0.274	0.001	SPRR2G	Hypomethylated in FP vs FN
cg12974599	0.413	0.703	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg17431952	0.450	0.721	-0.272	0.001	NA	Hypomethylated in FP vs FN
cg25260137	0.170	0.488	-0.318	0.001	NA	Hypomethylated in FP vs FN
cg09671955	0.340	0.609	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg05346286	0.278	0.533	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg09053907	0.213	0.475	-0.262	0.001	BTC	Hypomethylated in FP vs FN
cg02251315	0.524	0.777	-0.253	0.001	NA	Hypomethylated in FP vs FN
cg01860201	0.197	0.455	-0.258	0.001	BTC	Hypomethylated in FP vs FN
cg11236429	0.227	0.553	-0.326	0.001	NA	Hypomethylated in FP vs FN
cg17538572	0.148	0.518	-0.370	0.001	NA	Hypomethylated in FP vs FN
cg09553232	0.441	0.691	-0.250	0.001	NA	Hypomethylated in FP vs FN
cg19727767	0.570	0.822	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg20026939	0.304	0.577	-0.274	0.001	NA	Hypomethylated in FP vs FN
cg23317614	0.547	0.805	-0.259	0.001	NA	Hypomethylated in FP vs FN
cg14847483	0.362	0.615	-0.253	0.001	TMEM85	Hypomethylated in FP vs FN
cg20897830	0.378	0.678	-0.299	0.001	NA	Hypomethylated in FP vs FN
cg27076669	0.146	0.402	-0.256	0.001	CPM	Hypomethylated in FP vs FN
cg02577773	0.334	0.605	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg19724910	0.355	0.605	-0.251	0.001	GPR17	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01755505	0.336	0.589	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg24531520	0.333	0.622	-0.289	0.001	RHEB	Hypomethylated in FP vs FN
cg04492459	0.449	0.717	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg25046651	0.302	0.593	-0.291	0.001	NA	Hypomethylated in FP vs FN
cg16540590	0.268	0.526	-0.258	0.001	NA	Hypomethylated in FP vs FN
cg25667841	0.110	0.399	-0.289	0.001	GATA5	Hypomethylated in FP vs FN
cg17940113	0.437	0.689	-0.252	0.001	NA	Hypomethylated in FP vs FN
cg12597389	0.165	0.500	-0.334	0.001	NA	Hypomethylated in FP vs FN
cg04824711	0.318	0.603	-0.285	0.001	PTEN_KILLIN	Hypomethylated in FP vs FN
cg11320150	0.470	0.745	-0.275	0.001	NA	Hypomethylated in FP vs FN
cg06816106	0.094	0.363	-0.269	0.001	SPDYA	Hypomethylated in FP vs FN
cg24205914	0.380	0.633	-0.254	0.001	RHOBTB1	Hypomethylated in FP vs FN
cg09632907	0.173	0.443	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg21543859	0.188	0.461	-0.273	0.001	NA	Hypomethylated in FP vs FN
cg23816347	0.154	0.438	-0.284	0.001	CCDC37	Hypomethylated in FP vs FN
cg00708598	0.406	0.681	-0.275	0.001	LECT1	Hypomethylated in FP vs FN
cg10580341	0.415	0.681	-0.266	0.001	NA	Hypomethylated in FP vs FN
cg05021643	0.309	0.604	-0.294	0.001	NA	Hypomethylated in FP vs FN
cg26222247	0.353	0.643	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg21336594	0.431	0.683	-0.251	0.001	NA	Hypomethylated in FP vs FN
cg18395354	0.369	0.626	-0.257	0.001	NA	Hypomethylated in FP vs FN
cg04276508	0.232	0.525	-0.293	0.001	NA	Hypomethylated in FP vs FN
cg06141004	0.336	0.592	-0.256	0.001	C7orf28B	Hypomethylated in FP vs FN
cg08991742	0.355	0.606	-0.251	0.001	ARHGAP25	Hypomethylated in FP vs FN
cg19315854	0.445	0.704	-0.260	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg21170658	0.438	0.693	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg17533927	0.424	0.692	-0.269	0.001	KCP	Hypomethylated in FP vs FN
cg26549701	0.257	0.590	-0.333	0.001	NA	Hypomethylated in FP vs FN
cg18217235	0.181	0.471	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg13596049	0.229	0.486	-0.257	0.001	FAM59A	Hypomethylated in FP vs FN
cg19188855	0.464	0.745	-0.281	0.001	NA	Hypomethylated in FP vs FN
cg09803262	0.330	0.612	-0.282	0.001	NA	Hypomethylated in FP vs FN
cg18235050	0.275	0.625	-0.350	0.001	NA	Hypomethylated in FP vs FN
cg02015909	0.273	0.542	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg02428119	0.099	0.369	-0.269	0.001	NA	Hypomethylated in FP vs FN
cg08166631	0.319	0.585	-0.266	0.001	NA	Hypomethylated in FP vs FN
cg01869243	0.092	0.358	-0.267	0.001	NA	Hypomethylated in FP vs FN
cg25196975	0.309	0.563	-0.254	0.001	NA	Hypomethylated in FP vs FN
cg08473693	0.470	0.729	-0.259	0.001	NA	Hypomethylated in FP vs FN
cg26953640	0.162	0.448	-0.286	0.001	BHLHA9	Hypomethylated in FP vs FN
cg14085012	0.461	0.728	-0.267	0.001	NA	Hypomethylated in FP vs FN
cg02146001	0.109	0.429	-0.320	0.001	GATA5	Hypomethylated in FP vs FN
cg02847897	0.337	0.594	-0.257	0.001	KLHL8	Hypomethylated in FP vs FN
cg07914107	0.486	0.763	-0.277	0.001	PDE4B	Hypomethylated in FP vs FN
cg03056547	0.429	0.689	-0.260	0.001	NA	Hypomethylated in FP vs FN
cg13331196	0.279	0.640	-0.361	0.001	NA	Hypomethylated in FP vs FN
cg18789841	0.141	0.427	-0.286	0.001	LOC441046	Hypomethylated in FP vs FN
cg17951408	0.426	0.692	-0.266	0.001	NA	Hypomethylated in FP vs FN
cg14525688	0.134	0.430	-0.296	0.001	NA	Hypomethylated in FP vs FN
cg24014143	0.109	0.397	-0.288	0.001	KLHL1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00005847	0.529	0.787	-0.258	0.001	NA	Hypomethylated in FP vs FN
cg03858663	0.294	0.549	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg08783317	0.359	0.650	-0.291	0.001	NA	Hypomethylated in FP vs FN
cg00531628	0.156	0.452	-0.296	0.001	IFIH1	Hypomethylated in FP vs FN
cg22763680	0.309	0.568	-0.259	0.001	NA	Hypomethylated in FP vs FN
cg19925849	0.160	0.423	-0.263	0.001	NA	Hypomethylated in FP vs FN
cg22601300	0.359	0.614	-0.255	0.001	NA	Hypomethylated in FP vs FN
cg05471602	0.525	0.796	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg21922574	0.095	0.383	-0.289	0.001	NETO1	Hypomethylated in FP vs FN
cg24422029	0.446	0.733	-0.287	0.001	CACNB2	Hypomethylated in FP vs FN
cg18759693	0.066	0.364	-0.298	0.001	NA	Hypomethylated in FP vs FN
cg15666789	0.345	0.628	-0.283	0.001	TTR	Hypomethylated in FP vs FN
cg25336332	0.508	0.772	-0.264	0.001	THRB	Hypomethylated in FP vs FN
cg01774894	0.360	0.619	-0.259	0.001	NA	Hypomethylated in FP vs FN
cg15943038	0.328	0.579	-0.251	0.001	NA	Hypomethylated in FP vs FN
cg14229668	0.155	0.463	-0.308	0.001	GCA	Hypomethylated in FP vs FN
cg02411088	0.289	0.551	-0.262	0.001	NA	Hypomethylated in FP vs FN
cg24322968	0.316	0.580	-0.264	0.001	SKAP1	Hypomethylated in FP vs FN
cg15812753	0.298	0.570	-0.272	0.001	NA	Hypomethylated in FP vs FN
cg19690766	0.200	0.536	-0.337	0.001	NA	Hypomethylated in FP vs FN
cg12414557	0.247	0.537	-0.290	0.001	RNF212	Hypomethylated in FP vs FN
cg26727693	0.197	0.475	-0.279	0.001	AVPR1A	Hypomethylated in FP vs FN
cg15985184	0.107	0.375	-0.267	0.001	NA	Hypomethylated in FP vs FN
cg04104463	0.302	0.571	-0.269	0.001	MIR124-2	Hypomethylated in FP vs FN
cg05710540	0.134	0.454	-0.321	0.001	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg19474888	0.341	0.631	-0.290	0.001	NA	Hypomethylated in FP vs FN
cg27393010	0.130	0.449	-0.318	0.001	NA	Hypomethylated in FP vs FN
cg07709903	0.377	0.643	-0.266	0.001	NA	Hypomethylated in FP vs FN
cg04625914	0.427	0.677	-0.250	0.001	NA	Hypomethylated in FP vs FN
cg16419441	0.161	0.465	-0.304	0.001	NA	Hypomethylated in FP vs FN
cg02395846	0.474	0.768	-0.294	0.001	NA	Hypomethylated in FP vs FN
cg24885417	0.055	0.309	-0.254	0.001	NPY	Hypomethylated in FP vs FN
cg04217927	0.183	0.500	-0.316	0.001	AGBL2	Hypomethylated in FP vs FN
cg23358625	0.252	0.600	-0.348	0.001	RPSAP58	Hypomethylated in FP vs FN
cg26949694	0.202	0.457	-0.255	0.001	BDNF	Hypomethylated in FP vs FN
cg20221591	0.416	0.693	-0.277	0.001	MYEOV2	Hypomethylated in FP vs FN
cg18873386	0.449	0.700	-0.251	0.001	NA	Hypomethylated in FP vs FN
cg07428323	0.093	0.364	-0.271	0.001	NA	Hypomethylated in FP vs FN
cg04996195	0.166	0.442	-0.277	0.001	ABCB4	Hypomethylated in FP vs FN
cg20291855	0.176	0.518	-0.342	0.001	NA	Hypomethylated in FP vs FN
cg17071446	0.330	0.602	-0.272	0.001	NA	Hypomethylated in FP vs FN
cg09730689	0.377	0.659	-0.282	0.001	NA	Hypomethylated in FP vs FN
cg15368905	0.249	0.542	-0.293	0.001	HTR1B	Hypomethylated in FP vs FN
cg03056526	0.320	0.594	-0.274	0.001	NA	Hypomethylated in FP vs FN
cg16727923	0.257	0.598	-0.341	0.001	SLITRK1	Hypomethylated in FP vs FN
cg11934394	0.364	0.629	-0.265	0.001	NA	Hypomethylated in FP vs FN
cg01861825	0.435	0.720	-0.285	0.001	NA	Hypomethylated in FP vs FN
cg03314029	0.128	0.420	-0.292	0.001	ZNF469	Hypomethylated in FP vs FN
cg21162779	0.368	0.638	-0.270	0.001	MMEL1	Hypomethylated in FP vs FN
cg06490988	0.279	0.570	-0.291	0.001	GATA2	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22172230	0.099	0.397	-0.298	0.001	SWAP70	Hypomethylated in FP vs FN
cg08514765	0.258	0.509	-0.251	0.001	MMP15	Hypomethylated in FP vs FN
cg00688941	0.402	0.658	-0.256	0.001	NA	Hypomethylated in FP vs FN
cg12264626	0.159	0.431	-0.272	0.001	CA3	Hypomethylated in FP vs FN
cg10222027	0.109	0.386	-0.277	0.002	NA	Hypomethylated in FP vs FN
cg00323305	0.298	0.642	-0.344	0.002	THRB	Hypomethylated in FP vs FN
cg03061916	0.416	0.667	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg23902610	0.409	0.674	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg24110050	0.320	0.616	-0.296	0.002	TCTEX1D1	Hypomethylated in FP vs FN
cg00489652	0.290	0.550	-0.260	0.002	CLSTN3_RBP5	Hypomethylated in FP vs FN
cg12302070	0.218	0.494	-0.276	0.002	KCNH7	Hypomethylated in FP vs FN
cg00642359	0.348	0.599	-0.251	0.002	TBX5	Hypomethylated in FP vs FN
cg07160746	0.148	0.483	-0.335	0.002	NA	Hypomethylated in FP vs FN
cg10236452	0.344	0.668	-0.324	0.002	NA	Hypomethylated in FP vs FN
cg07354861	0.125	0.453	-0.329	0.002	C11orf93	Hypomethylated in FP vs FN
cg14355482	0.417	0.683	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg13259925	0.245	0.497	-0.252	0.002	NA	Hypomethylated in FP vs FN
cg02518135	0.327	0.602	-0.275	0.002	NA	Hypomethylated in FP vs FN
cg26881527	0.372	0.661	-0.289	0.002	NA	Hypomethylated in FP vs FN
cg08071609	0.307	0.625	-0.317	0.002	NA	Hypomethylated in FP vs FN
cg17833265	0.278	0.580	-0.302	0.002	NA	Hypomethylated in FP vs FN
cg06610849	0.100	0.381	-0.281	0.002	NA	Hypomethylated in FP vs FN
cg24851854	0.460	0.758	-0.298	0.002	TACSTD2	Hypomethylated in FP vs FN
cg27493010	0.336	0.621	-0.285	0.002	NA	Hypomethylated in FP vs FN
cg06715661	0.233	0.500	-0.267	0.002	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20606555	0.304	0.566	-0.262	0.002	NA	Hypomethylated in FP vs FN
cg05099537	0.358	0.657	-0.298	0.002	NA	Hypomethylated in FP vs FN
cg11414709	0.121	0.412	-0.291	0.002	SCAND3	Hypomethylated in FP vs FN
cg04059773	0.198	0.453	-0.255	0.002	NA	Hypomethylated in FP vs FN
cg27343801	0.362	0.628	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg25583491	0.169	0.450	-0.280	0.002	GPR150	Hypomethylated in FP vs FN
cg25728685	0.212	0.525	-0.313	0.002	NA	Hypomethylated in FP vs FN
cg01452847	0.135	0.458	-0.323	0.002	MIR196A1	Hypomethylated in FP vs FN
cg10947408	0.363	0.647	-0.284	0.002	NA	Hypomethylated in FP vs FN
cg04062391	0.130	0.409	-0.279	0.002	NA	Hypomethylated in FP vs FN
cg05645316	0.394	0.666	-0.272	0.002	LIPJ	Hypomethylated in FP vs FN
cg18091469	0.167	0.457	-0.290	0.002	NA	Hypomethylated in FP vs FN
cg14093610	0.312	0.571	-0.259	0.002	CCDC140	Hypomethylated in FP vs FN
cg01071314	0.344	0.637	-0.294	0.002	NA	Hypomethylated in FP vs FN
cg24173049	0.236	0.531	-0.295	0.002	SLC16A13	Hypomethylated in FP vs FN
cg01791371	0.202	0.494	-0.292	0.002	NA	Hypomethylated in FP vs FN
cg16306115	0.243	0.511	-0.269	0.002	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg12526614	0.453	0.704	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg12146864	0.375	0.629	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg23610736	0.441	0.695	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg08647951	0.481	0.740	-0.259	0.002	NA	Hypomethylated in FP vs FN
cg01083633	0.425	0.721	-0.297	0.002	NA	Hypomethylated in FP vs FN
cg21097881	0.106	0.380	-0.274	0.002	NA	Hypomethylated in FP vs FN
cg02458062	0.519	0.770	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg05474726	0.307	0.579	-0.272	0.002	MIR124-2	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg08713073	0.387	0.649	-0.262	0.002	NA	Hypomethylated in FP vs FN
cg17202313	0.090	0.374	-0.283	0.002	NA	Hypomethylated in FP vs FN
cg00347757	0.156	0.410	-0.254	0.002	GJB2	Hypomethylated in FP vs FN
cg14701491	0.393	0.715	-0.322	0.002	NA	Hypomethylated in FP vs FN
cg13577505	0.127	0.387	-0.261	0.002	NA	Hypomethylated in FP vs FN
cg17616677	0.348	0.629	-0.282	0.002	NA	Hypomethylated in FP vs FN
cg07842327	0.423	0.681	-0.258	0.002	NA	Hypomethylated in FP vs FN
cg23201812	0.240	0.490	-0.250	0.002	NA	Hypomethylated in FP vs FN
cg05347965	0.204	0.484	-0.281	0.002	NA	Hypomethylated in FP vs FN
cg06508320	0.111	0.366	-0.255	0.002	NA	Hypomethylated in FP vs FN
cg24675673	0.335	0.588	-0.253	0.002	NA	Hypomethylated in FP vs FN
cg22757399	0.251	0.612	-0.362	0.002	NA	Hypomethylated in FP vs FN
cg00243480	0.475	0.734	-0.259	0.002	NA	Hypomethylated in FP vs FN
cg07301329	0.217	0.474	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg05593707	0.223	0.480	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg23901852	0.067	0.377	-0.310	0.002	FAT4	Hypomethylated in FP vs FN
cg06531379	0.264	0.539	-0.275	0.002	NA	Hypomethylated in FP vs FN
cg03778029	0.291	0.615	-0.324	0.002	CCDC68	Hypomethylated in FP vs FN
cg04162059	0.240	0.527	-0.287	0.002	C12orf56	Hypomethylated in FP vs FN
cg12513481	0.233	0.495	-0.261	0.002	SKAP1	Hypomethylated in FP vs FN
cg21510348	0.417	0.679	-0.261	0.002	NA	Hypomethylated in FP vs FN
cg06489728	0.558	0.809	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg00170003	0.157	0.445	-0.288	0.002	NA	Hypomethylated in FP vs FN
cg24996565	0.312	0.577	-0.265	0.002	TCL1A	Hypomethylated in FP vs FN
cg07710266	0.356	0.627	-0.271	0.002	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06437396	0.210	0.484	-0.274	0.002	NA	Hypomethylated in FP vs FN
cg21139312	0.349	0.603	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg01723148	0.289	0.611	-0.321	0.002	NA	Hypomethylated in FP vs FN
cg17278447	0.330	0.590	-0.260	0.002	NA	Hypomethylated in FP vs FN
cg07817055	0.396	0.658	-0.262	0.002	NA	Hypomethylated in FP vs FN
cg06878649	0.475	0.728	-0.253	0.002	NA	Hypomethylated in FP vs FN
cg02844545	0.252	0.530	-0.278	0.002	GCM2	Hypomethylated in FP vs FN
cg10443049	0.278	0.561	-0.283	0.002	NA	Hypomethylated in FP vs FN
cg18803104	0.553	0.804	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg01022219	0.552	0.813	-0.261	0.002	NA	Hypomethylated in FP vs FN
cg26255807	0.196	0.470	-0.274	0.002	NA	Hypomethylated in FP vs FN
cg04546993	0.252	0.517	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg10242160	0.290	0.571	-0.281	0.002	NA	Hypomethylated in FP vs FN
cg09459548	0.298	0.551	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg14978994	0.275	0.532	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg01153385	0.472	0.726	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg25400396	0.251	0.558	-0.307	0.002	ZNF814	Hypomethylated in FP vs FN
cg08657361	0.211	0.519	-0.307	0.002	NA	Hypomethylated in FP vs FN
cg05080330	0.155	0.467	-0.312	0.002	PHF11	Hypomethylated in FP vs FN
cg17462200	0.338	0.615	-0.277	0.002	TBX5	Hypomethylated in FP vs FN
cg15285250	0.233	0.510	-0.277	0.002	NA	Hypomethylated in FP vs FN
cg19567689	0.282	0.560	-0.278	0.002	NA	Hypomethylated in FP vs FN
cg13321967	0.103	0.428	-0.325	0.002	NA	Hypomethylated in FP vs FN
cg26774079	0.221	0.496	-0.275	0.002	CLUL1	Hypomethylated in FP vs FN
cg12864185	0.248	0.527	-0.279	0.002	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20536794	0.357	0.619	-0.262	0.002	NA	Hypomethylated in FP vs FN
cg15208756	0.142	0.393	-0.251	0.002	LOC441046	Hypomethylated in FP vs FN
cg11888982	0.410	0.661	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg18793404	0.329	0.645	-0.316	0.002	NA	Hypomethylated in FP vs FN
cg26005196	0.423	0.681	-0.258	0.002	NA	Hypomethylated in FP vs FN
cg07211875	0.169	0.424	-0.256	0.002	ADCYAP1	Hypomethylated in FP vs FN
cg06544405	0.331	0.590	-0.259	0.002	NA	Hypomethylated in FP vs FN
cg09736968	0.127	0.395	-0.268	0.002	NA	Hypomethylated in FP vs FN
cg19628148	0.208	0.499	-0.291	0.002	NA	Hypomethylated in FP vs FN
cg13896192	0.424	0.678	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg09765089	0.215	0.598	-0.383	0.002	NA	Hypomethylated in FP vs FN
cg08289130	0.445	0.731	-0.286	0.002	NA	Hypomethylated in FP vs FN
cg07466807	0.290	0.542	-0.252	0.002	NA	Hypomethylated in FP vs FN
cg04963514	0.310	0.606	-0.296	0.002	NA	Hypomethylated in FP vs FN
cg04661382	0.247	0.504	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg20491573	0.359	0.626	-0.267	0.002	NA	Hypomethylated in FP vs FN
cg06661242	0.182	0.445	-0.264	0.002	NA	Hypomethylated in FP vs FN
cg18856652	0.101	0.373	-0.272	0.002	NA	Hypomethylated in FP vs FN
cg12080882	0.357	0.608	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg20136855	0.373	0.639	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg00346208	0.134	0.422	-0.288	0.002	NA	Hypomethylated in FP vs FN
cg03948727	0.431	0.697	-0.266	0.002	TMC3	Hypomethylated in FP vs FN
cg07460376	0.135	0.448	-0.313	0.002	ZNF681	Hypomethylated in FP vs FN
cg07748741	0.424	0.681	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg04139849	0.176	0.458	-0.282	0.002	FLJ44817	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25220625	0.075	0.360	-0.285	0.002	NA	Hypomethylated in FP vs FN
cg20901246	0.093	0.346	-0.253	0.002	NA	Hypomethylated in FP vs FN
cg09788416	0.224	0.541	-0.317	0.002	NA	Hypomethylated in FP vs FN
cg01610857	0.160	0.455	-0.295	0.002	NA	Hypomethylated in FP vs FN
cg23770904	0.116	0.449	-0.332	0.002	GATA5	Hypomethylated in FP vs FN
cg25283465	0.259	0.525	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg12073779	0.388	0.642	-0.253	0.002	CRYGD	Hypomethylated in FP vs FN
cg06207836	0.473	0.738	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg16459519	0.152	0.446	-0.294	0.002	SYT15	Hypomethylated in FP vs FN
cg24947777	0.428	0.693	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg12332415	0.251	0.606	-0.354	0.002	NA	Hypomethylated in FP vs FN
cg11390073	0.154	0.441	-0.287	0.002	NA	Hypomethylated in FP vs FN
cg16005697	0.449	0.700	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg07791987	0.581	0.840	-0.259	0.002	NA	Hypomethylated in FP vs FN
cg03513309	0.327	0.595	-0.268	0.002	NA	Hypomethylated in FP vs FN
cg10382221	0.232	0.506	-0.273	0.002	MIR152	Hypomethylated in FP vs FN
cg21389753	0.173	0.452	-0.280	0.002	NA	Hypomethylated in FP vs FN
cg22584138	0.351	0.607	-0.256	0.002	NA	Hypomethylated in FP vs FN
cg21554861	0.248	0.527	-0.280	0.002	EIF4E	Hypomethylated in FP vs FN
cg04988514	0.283	0.564	-0.281	0.002	GRWD1	Hypomethylated in FP vs FN
cg15081566	0.145	0.495	-0.350	0.002	C11orf93	Hypomethylated in FP vs FN
cg15371806	0.346	0.601	-0.256	0.002	KIF25	Hypomethylated in FP vs FN
cg10645314	0.403	0.667	-0.265	0.002	ALLC	Hypomethylated in FP vs FN
cg08173515	0.222	0.518	-0.295	0.002	NA	Hypomethylated in FP vs FN
cg22864337	0.093	0.369	-0.276	0.002	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20783424	0.144	0.400	-0.256	0.002	MYEOV2	Hypomethylated in FP vs FN
cg05937737	0.262	0.564	-0.302	0.002	NA	Hypomethylated in FP vs FN
cg01029840	0.108	0.429	-0.321	0.002	NA	Hypomethylated in FP vs FN
cg02536065	0.398	0.655	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg01961447	0.144	0.409	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg12817782	0.382	0.645	-0.263	0.002	NA	Hypomethylated in FP vs FN
cg22471726	0.274	0.524	-0.250	0.002	NA	Hypomethylated in FP vs FN
cg08568720	0.085	0.341	-0.255	0.002	GATA5	Hypomethylated in FP vs FN
cg24856064	0.201	0.468	-0.267	0.002	NA	Hypomethylated in FP vs FN
cg03680032	0.528	0.779	-0.251	0.002	SESN3	Hypomethylated in FP vs FN
cg09282497	0.145	0.447	-0.302	0.002	KCNS3	Hypomethylated in FP vs FN
cg17453460	0.310	0.591	-0.281	0.002	NA	Hypomethylated in FP vs FN
cg17408527	0.402	0.675	-0.273	0.002	ZSCAN18	Hypomethylated in FP vs FN
cg18735956	0.331	0.586	-0.255	0.002	NA	Hypomethylated in FP vs FN
cg17114847	0.172	0.463	-0.291	0.002	AGBL2	Hypomethylated in FP vs FN
cg19254118	0.358	0.621	-0.263	0.002	NA	Hypomethylated in FP vs FN
cg19389293	0.458	0.756	-0.298	0.002	NA	Hypomethylated in FP vs FN
cg19239692	0.331	0.587	-0.256	0.002	NA	Hypomethylated in FP vs FN
cg06382028	0.323	0.610	-0.287	0.002	NA	Hypomethylated in FP vs FN
cg11760395	0.538	0.788	-0.250	0.002	NA	Hypomethylated in FP vs FN
cg00158254	0.102	0.374	-0.272	0.002	NA	Hypomethylated in FP vs FN
cg09901532	0.290	0.550	-0.260	0.002	NA	Hypomethylated in FP vs FN
cg09473359	0.433	0.690	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg26272575	0.176	0.434	-0.259	0.002	KIF16B	Hypomethylated in FP vs FN
cg25856383	0.167	0.450	-0.283	0.002	CYP1B1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg13098071	0.348	0.662	-0.313	0.002	NA	Hypomethylated in FP vs FN
cg18684142	0.290	0.568	-0.278	0.002	HOXB6	Hypomethylated in FP vs FN
cg14636113	0.550	0.805	-0.254	0.002	NA	Hypomethylated in FP vs FN
cg25963980	0.265	0.515	-0.250	0.002	SLC1A2	Hypomethylated in FP vs FN
cg19992633	0.181	0.471	-0.290	0.002	TCL1A	Hypomethylated in FP vs FN
cg02244386	0.431	0.693	-0.262	0.002	NA	Hypomethylated in FP vs FN
cg04101194	0.401	0.662	-0.261	0.002	SLC34A2	Hypomethylated in FP vs FN
cg22607164	0.550	0.809	-0.259	0.002	NA	Hypomethylated in FP vs FN
cg01085569	0.410	0.692	-0.282	0.002	NA	Hypomethylated in FP vs FN
cg20322876	0.181	0.535	-0.354	0.002	C11orf93	Hypomethylated in FP vs FN
cg19503640	0.547	0.813	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg05347898	0.217	0.503	-0.286	0.002	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg11991617	0.218	0.478	-0.260	0.002	NA	Hypomethylated in FP vs FN
cg04972566	0.182	0.433	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg07150045	0.332	0.598	-0.266	0.002	KCNH7	Hypomethylated in FP vs FN
cg26525127	0.172	0.439	-0.267	0.002	NA	Hypomethylated in FP vs FN
cg26011014	0.110	0.411	-0.302	0.002	COL9A2	Hypomethylated in FP vs FN
cg25355316	0.208	0.518	-0.310	0.002	NA	Hypomethylated in FP vs FN
cg22951509	0.195	0.491	-0.296	0.002	GPR150	Hypomethylated in FP vs FN
cg05837401	0.116	0.366	-0.250	0.002	NA	Hypomethylated in FP vs FN
cg03971521	0.319	0.584	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg07471943	0.356	0.647	-0.291	0.002	NA	Hypomethylated in FP vs FN
cg19474047	0.307	0.623	-0.316	0.002	NA	Hypomethylated in FP vs FN
cg15140703	0.297	0.622	-0.325	0.002	STAG3_GPC2	Hypomethylated in FP vs FN
cg00924255	0.218	0.490	-0.272	0.002	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24030622	0.392	0.657	-0.265	0.002	NA	Hypomethylated in FP vs FN
cg16918905	0.498	0.755	-0.257	0.002	NA	Hypomethylated in FP vs FN
cg13997668	0.212	0.502	-0.291	0.002	NA	Hypomethylated in FP vs FN
cg04621893	0.408	0.710	-0.302	0.002	NA	Hypomethylated in FP vs FN
cg24462476	0.325	0.637	-0.311	0.002	NA	Hypomethylated in FP vs FN
cg06807397	0.165	0.446	-0.281	0.002	NA	Hypomethylated in FP vs FN
cg27349909	0.362	0.637	-0.275	0.002	NA	Hypomethylated in FP vs FN
cg27235662	0.393	0.653	-0.260	0.002	CLDN16	Hypomethylated in FP vs FN
cg13954667	0.264	0.536	-0.272	0.002	NA	Hypomethylated in FP vs FN
cg17206850	0.348	0.651	-0.303	0.002	NA	Hypomethylated in FP vs FN
cg20185461	0.256	0.507	-0.251	0.002	NA	Hypomethylated in FP vs FN
cg16389456	0.439	0.706	-0.267	0.002	NA	Hypomethylated in FP vs FN
cg24280645	0.195	0.546	-0.351	0.002	NA	Hypomethylated in FP vs FN
cg14730445	0.083	0.353	-0.270	0.002	SLC5A8	Hypomethylated in FP vs FN
cg18647449	0.351	0.611	-0.260	0.002	NA	Hypomethylated in FP vs FN
cg15316843	0.304	0.659	-0.356	0.002	NA	Hypomethylated in FP vs FN
cg17997207	0.453	0.725	-0.272	0.002	NA	Hypomethylated in FP vs FN
cg27492458	0.336	0.640	-0.304	0.002	NA	Hypomethylated in FP vs FN
cg26752576	0.520	0.780	-0.260	0.002	NA	Hypomethylated in FP vs FN
cg14781189	0.237	0.520	-0.283	0.002	KCNH7	Hypomethylated in FP vs FN
cg10528482	0.289	0.543	-0.254	0.002	SLC9A3	Hypomethylated in FP vs FN
cg07095230	0.216	0.505	-0.289	0.002	NA	Hypomethylated in FP vs FN
cg18186394	0.137	0.392	-0.255	0.002	COL9A2	Hypomethylated in FP vs FN
cg22321089	0.395	0.661	-0.266	0.002	NA	Hypomethylated in FP vs FN
cg12499130	0.144	0.428	-0.284	0.002	SYT15	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg04786857	0.284	0.589	-0.305	0.002	NA	Hypomethylated in FP vs FN
cg17242351	0.156	0.434	-0.278	0.002	NA	Hypomethylated in FP vs FN
cg05845592	0.117	0.381	-0.264	0.002	SULT1A1	Hypomethylated in FP vs FN
cg24529280	0.145	0.415	-0.270	0.002	NA	Hypomethylated in FP vs FN
cg20704772	0.219	0.524	-0.304	0.002	NA	Hypomethylated in FP vs FN
cg18477674	0.260	0.586	-0.326	0.002	NA	Hypomethylated in FP vs FN
cg02423318	0.272	0.562	-0.291	0.002	NA	Hypomethylated in FP vs FN
cg21851351	0.148	0.404	-0.256	0.002	NA	Hypomethylated in FP vs FN
cg18117367	0.341	0.595	-0.254	0.002	PCDHA7	Hypomethylated in FP vs FN
cg13446772	0.258	0.541	-0.283	0.002	C12orf56	Hypomethylated in FP vs FN
cg16095767	0.129	0.432	-0.303	0.002	NA	Hypomethylated in FP vs FN
cg08803500	0.187	0.443	-0.255	0.002	NA	Hypomethylated in FP vs FN
cg15244049	0.248	0.522	-0.274	0.002	GCM2	Hypomethylated in FP vs FN
cg12468774	0.272	0.556	-0.284	0.003	CCDC36	Hypomethylated in FP vs FN
cg01138867	0.144	0.422	-0.278	0.003	GABRB2	Hypomethylated in FP vs FN
cg12226028	0.369	0.660	-0.291	0.003	NA	Hypomethylated in FP vs FN
cg16969368	0.258	0.520	-0.261	0.003	DHX40	Hypomethylated in FP vs FN
cg06410191	0.350	0.610	-0.260	0.003	LVRN	Hypomethylated in FP vs FN
cg00248828	0.277	0.544	-0.267	0.003	C17orf50	Hypomethylated in FP vs FN
cg06594404	0.303	0.611	-0.308	0.003	NA	Hypomethylated in FP vs FN
cg18852515	0.439	0.699	-0.260	0.003	NA	Hypomethylated in FP vs FN
cg11605903	0.297	0.597	-0.301	0.003	NA	Hypomethylated in FP vs FN
cg14361458	0.163	0.429	-0.267	0.003	NA	Hypomethylated in FP vs FN
cg08848140	0.302	0.594	-0.292	0.003	NA	Hypomethylated in FP vs FN
cg02289189	0.166	0.479	-0.313	0.003	PHF11	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22608492	0.402	0.665	-0.263	0.003	NA	Hypomethylated in FP vs FN
cg07445246	0.358	0.638	-0.280	0.003	TCL1A	Hypomethylated in FP vs FN
cg00933411	0.356	0.626	-0.270	0.003	DLC1	Hypomethylated in FP vs FN
cg20300343	0.276	0.545	-0.270	0.003	NA	Hypomethylated in FP vs FN
cg01988129	0.254	0.571	-0.317	0.003	NA	Hypomethylated in FP vs FN
cg14516100	0.303	0.611	-0.309	0.003	NA	Hypomethylated in FP vs FN
cg26064774	0.189	0.461	-0.272	0.003	NA	Hypomethylated in FP vs FN
cg01923218	0.072	0.333	-0.261	0.003	CCDC67	Hypomethylated in FP vs FN
cg10906729	0.253	0.505	-0.251	0.003	HOXB6	Hypomethylated in FP vs FN
cg01839464	0.138	0.399	-0.262	0.003	NA	Hypomethylated in FP vs FN
cg26425933	0.122	0.389	-0.267	0.003	NA	Hypomethylated in FP vs FN
cg25874119	0.176	0.448	-0.272	0.003	NA	Hypomethylated in FP vs FN
cg19757382	0.342	0.592	-0.251	0.003	MYEOV2	Hypomethylated in FP vs FN
cg12984729	0.192	0.490	-0.298	0.003	NA	Hypomethylated in FP vs FN
cg22509189	0.156	0.414	-0.258	0.003	NA	Hypomethylated in FP vs FN
cg03947979	0.313	0.597	-0.283	0.003	NA	Hypomethylated in FP vs FN
cg18451022	0.181	0.462	-0.280	0.003	CYP1B1	Hypomethylated in FP vs FN
cg08126211	0.281	0.556	-0.275	0.003	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg09373037	0.200	0.503	-0.302	0.003	SYT15	Hypomethylated in FP vs FN
cg24101359	0.197	0.469	-0.272	0.003	GNMT	Hypomethylated in FP vs FN
cg26864230	0.156	0.415	-0.259	0.003	NA	Hypomethylated in FP vs FN
cg10703619	0.412	0.689	-0.277	0.003	NA	Hypomethylated in FP vs FN
cg10980102	0.381	0.641	-0.260	0.003	NA	Hypomethylated in FP vs FN
cg11053304	0.189	0.477	-0.288	0.003	NA	Hypomethylated in FP vs FN
cg05728019	0.178	0.481	-0.302	0.003	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg06488443	0.196	0.464	-0.267	0.003	NA	Hypomethylated in FP vs FN
cg00149684	0.399	0.652	-0.253	0.003	NA	Hypomethylated in FP vs FN
cg14669379	0.311	0.568	-0.257	0.003	NA	Hypomethylated in FP vs FN
cg14192160	0.120	0.422	-0.302	0.003	NA	Hypomethylated in FP vs FN
cg20466895	0.328	0.590	-0.262	0.003	NA	Hypomethylated in FP vs FN
cg16996144	0.313	0.588	-0.275	0.003	TCTEX1D1	Hypomethylated in FP vs FN
cg10741422	0.115	0.413	-0.298	0.003	NA	Hypomethylated in FP vs FN
cg17164063	0.235	0.505	-0.270	0.003	NA	Hypomethylated in FP vs FN
cg11671688	0.270	0.594	-0.324	0.003	GPR6	Hypomethylated in FP vs FN
cg20597013	0.226	0.568	-0.343	0.003	NA	Hypomethylated in FP vs FN
cg21237687	0.315	0.596	-0.281	0.003	ALOX12	Hypomethylated in FP vs FN
cg06268694	0.125	0.398	-0.272	0.003	CELSR1	Hypomethylated in FP vs FN
cg10655021	0.117	0.381	-0.263	0.003	NA	Hypomethylated in FP vs FN
cg25636665	0.256	0.530	-0.274	0.003	NA	Hypomethylated in FP vs FN
cg13197216	0.188	0.456	-0.268	0.003	NA	Hypomethylated in FP vs FN
cg03774803	0.211	0.499	-0.288	0.003	BOLL	Hypomethylated in FP vs FN
cg10721834	0.476	0.745	-0.269	0.003	NA	Hypomethylated in FP vs FN
cg16439198	0.274	0.554	-0.279	0.003	NA	Hypomethylated in FP vs FN
cg16021909	0.135	0.436	-0.300	0.003	NA	Hypomethylated in FP vs FN
cg00110785	0.281	0.545	-0.264	0.003	IGFBP1	Hypomethylated in FP vs FN
cg05235610	0.396	0.669	-0.274	0.003	NA	Hypomethylated in FP vs FN
cg13603508	0.154	0.469	-0.316	0.003	CPNE8	Hypomethylated in FP vs FN
cg21109744	0.217	0.494	-0.277	0.003	CCDC37	Hypomethylated in FP vs FN
cg20653075	0.303	0.559	-0.256	0.003	MIR124-2	Hypomethylated in FP vs FN
cg03777459	0.315	0.576	-0.261	0.003	GATA5	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg00884093	0.068	0.319	-0.251	0.003	CELSR1	Hypomethylated in FP vs FN
cg14071179	0.285	0.539	-0.255	0.003	NA	Hypomethylated in FP vs FN
cg12417466	0.487	0.741	-0.253	0.003	ARPP-21	Hypomethylated in FP vs FN
cg24948962	0.418	0.679	-0.261	0.003	NA	Hypomethylated in FP vs FN
cg22137572	0.334	0.595	-0.260	0.003	NA	Hypomethylated in FP vs FN
cg10145246	0.213	0.493	-0.280	0.003	NA	Hypomethylated in FP vs FN
cg22519422	0.117	0.371	-0.254	0.003	NA	Hypomethylated in FP vs FN
cg25825627	0.534	0.788	-0.255	0.003	NA	Hypomethylated in FP vs FN
cg27252395	0.191	0.466	-0.274	0.003	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg07180307	0.129	0.413	-0.284	0.003	NA	Hypomethylated in FP vs FN
cg14706475	0.334	0.591	-0.257	0.003	NA	Hypomethylated in FP vs FN
cg07078841	0.183	0.466	-0.282	0.003	CYP1B1	Hypomethylated in FP vs FN
cg13862711	0.278	0.534	-0.256	0.003	NA	Hypomethylated in FP vs FN
cg18489675	0.395	0.648	-0.253	0.003	NA	Hypomethylated in FP vs FN
cg14258623	0.146	0.444	-0.298	0.003	NA	Hypomethylated in FP vs FN
cg18209835	0.110	0.372	-0.262	0.003	NA	Hypomethylated in FP vs FN
cg13364038	0.371	0.644	-0.273	0.003	NA	Hypomethylated in FP vs FN
cg14615784	0.297	0.593	-0.296	0.003	GPR150	Hypomethylated in FP vs FN
cg09364020	0.225	0.484	-0.260	0.003	NA	Hypomethylated in FP vs FN
cg06369992	0.460	0.730	-0.270	0.003	NA	Hypomethylated in FP vs FN
cg25637829	0.436	0.700	-0.265	0.003	NA	Hypomethylated in FP vs FN
cg22322465	0.413	0.665	-0.253	0.003	NA	Hypomethylated in FP vs FN
cg25233685	0.107	0.405	-0.298	0.003	NA	Hypomethylated in FP vs FN
cg02993352	0.226	0.526	-0.300	0.003	NA	Hypomethylated in FP vs FN
cg03694713	0.201	0.493	-0.291	0.003	NKX2-6	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg07791578	0.240	0.502	-0.262	0.003	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg11149930	0.179	0.434	-0.254	0.003	NA	Hypomethylated in FP vs FN
cg06819935	0.363	0.636	-0.272	0.003	NA	Hypomethylated in FP vs FN
cg01110759	0.100	0.356	-0.256	0.003	MT1A	Hypomethylated in FP vs FN
cg17265829	0.091	0.410	-0.319	0.003	FAT4	Hypomethylated in FP vs FN
cg18750738	0.153	0.428	-0.275	0.003	NA	Hypomethylated in FP vs FN
cg06382344	0.156	0.500	-0.343	0.003	NA	Hypomethylated in FP vs FN
cg09557313	0.241	0.579	-0.338	0.003	NA	Hypomethylated in FP vs FN
cg23546474	0.206	0.511	-0.306	0.003	CCDC140	Hypomethylated in FP vs FN
cg12586386	0.367	0.618	-0.251	0.003	AQP11	Hypomethylated in FP vs FN
cg15834072	0.167	0.450	-0.283	0.003	DCHS2	Hypomethylated in FP vs FN
cg18161890	0.227	0.492	-0.264	0.003	KRT72	Hypomethylated in FP vs FN
cg10305451	0.194	0.444	-0.250	0.003	NA	Hypomethylated in FP vs FN
cg27207616	0.384	0.641	-0.257	0.003	NA	Hypomethylated in FP vs FN
cg23471067	0.245	0.516	-0.270	0.003	NA	Hypomethylated in FP vs FN
cg01177928	0.338	0.665	-0.326	0.003	NA	Hypomethylated in FP vs FN
cg11517269	0.405	0.675	-0.270	0.003	ZSCAN12L1	Hypomethylated in FP vs FN
cg27441225	0.267	0.520	-0.253	0.003	HOXC6	Hypomethylated in FP vs FN
cg04645914	0.209	0.482	-0.273	0.003	NA	Hypomethylated in FP vs FN
cg08707078	0.283	0.548	-0.265	0.003	NA	Hypomethylated in FP vs FN
cg03780561	0.380	0.677	-0.297	0.003	GPRC5B	Hypomethylated in FP vs FN
cg16054907	0.326	0.613	-0.287	0.003	NA	Hypomethylated in FP vs FN
cg21852408	0.143	0.422	-0.280	0.003	NA	Hypomethylated in FP vs FN
cg06629130	0.160	0.466	-0.306	0.003	NA	Hypomethylated in FP vs FN
cg09085842	0.132	0.402	-0.270	0.003	HSPA1A_HSPA1L	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg01027397	0.172	0.433	-0.261	0.003	SCAND3	Hypomethylated in FP vs FN
cg02938205	0.208	0.462	-0.254	0.003	CCDC36	Hypomethylated in FP vs FN
cg00785941	0.283	0.546	-0.262	0.003	OR2L13	Hypomethylated in FP vs FN
cg10515332	0.223	0.513	-0.290	0.003	C4orf37	Hypomethylated in FP vs FN
cg01628467	0.448	0.702	-0.254	0.003	NA	Hypomethylated in FP vs FN
cg00267596	0.109	0.416	-0.308	0.003	NA	Hypomethylated in FP vs FN
cg18866015	0.082	0.362	-0.281	0.003	NA	Hypomethylated in FP vs FN
cg24384244	0.091	0.360	-0.268	0.003	ZNF662	Hypomethylated in FP vs FN
cg05857758	0.221	0.503	-0.282	0.003	NA	Hypomethylated in FP vs FN
cg05516505	0.244	0.519	-0.276	0.003	NA	Hypomethylated in FP vs FN
cg13525837	0.063	0.324	-0.262	0.003	KCNV1	Hypomethylated in FP vs FN
cg01548300	0.357	0.649	-0.292	0.003	NA	Hypomethylated in FP vs FN
cg10296410	0.394	0.652	-0.259	0.003	MEI1	Hypomethylated in FP vs FN
cg07605285	0.309	0.562	-0.253	0.003	NA	Hypomethylated in FP vs FN
cg01574481	0.250	0.544	-0.294	0.003	NA	Hypomethylated in FP vs FN
cg19419291	0.232	0.512	-0.280	0.003	NA	Hypomethylated in FP vs FN
cg02162286	0.191	0.483	-0.292	0.003	NA	Hypomethylated in FP vs FN
cg11805311	0.270	0.530	-0.260	0.003	C10orf116	Hypomethylated in FP vs FN
cg11409350	0.311	0.565	-0.254	0.003	NA	Hypomethylated in FP vs FN
cg27644715	0.411	0.662	-0.251	0.003	NTM	Hypomethylated in FP vs FN
cg10648197	0.203	0.499	-0.296	0.003	NA	Hypomethylated in FP vs FN
cg08931647	0.321	0.573	-0.252	0.003	MSLNL	Hypomethylated in FP vs FN
cg11788523	0.182	0.440	-0.258	0.003	ZNF418	Hypomethylated in FP vs FN
cg10905898	0.191	0.460	-0.269	0.003	NA	Hypomethylated in FP vs FN
cg24928333	0.172	0.431	-0.259	0.003	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg20098471	0.217	0.509	-0.292	0.003	NA	Hypomethylated in FP vs FN
cg03749016	0.078	0.345	-0.266	0.003	NKX2-6	Hypomethylated in FP vs FN
cg11990309	0.192	0.466	-0.275	0.003	NA	Hypomethylated in FP vs FN
cg06419846	0.373	0.660	-0.286	0.003	CD248	Hypomethylated in FP vs FN
cg14548882	0.249	0.506	-0.257	0.003	MORN4	Hypomethylated in FP vs FN
cg21707187	0.311	0.643	-0.332	0.004	NA	Hypomethylated in FP vs FN
cg01683794	0.236	0.497	-0.260	0.004	NA	Hypomethylated in FP vs FN
cg02156870	0.504	0.775	-0.271	0.004	NA	Hypomethylated in FP vs FN
cg07675477	0.343	0.624	-0.281	0.004	NA	Hypomethylated in FP vs FN
cg17023149	0.190	0.457	-0.267	0.004	NA	Hypomethylated in FP vs FN
cg02456087	0.265	0.546	-0.282	0.004	NA	Hypomethylated in FP vs FN
cg21889472	0.154	0.418	-0.264	0.004	NA	Hypomethylated in FP vs FN
cg10210594	0.487	0.778	-0.291	0.004	NA	Hypomethylated in FP vs FN
cg16733705	0.361	0.688	-0.328	0.004	NA	Hypomethylated in FP vs FN
cg11548303	0.133	0.385	-0.253	0.004	NA	Hypomethylated in FP vs FN
cg19254532	0.466	0.716	-0.250	0.004	NA	Hypomethylated in FP vs FN
cg11362192	0.219	0.493	-0.274	0.004	PHF11	Hypomethylated in FP vs FN
cg24589459	0.131	0.407	-0.277	0.004	BOLL	Hypomethylated in FP vs FN
cg17105014	0.328	0.612	-0.284	0.004	GYPC	Hypomethylated in FP vs FN
cg00508771	0.374	0.629	-0.255	0.004	NA	Hypomethylated in FP vs FN
cg18399075	0.193	0.449	-0.256	0.004	NA	Hypomethylated in FP vs FN
cg17692125	0.178	0.471	-0.293	0.004	BARX2	Hypomethylated in FP vs FN
cg13301003	0.459	0.711	-0.252	0.004	NA	Hypomethylated in FP vs FN
cg10599345	0.077	0.335	-0.258	0.004	MAP3K5	Hypomethylated in FP vs FN
cg13180315	0.331	0.643	-0.311	0.004	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05605052	0.210	0.511	-0.301	0.004	RPSAP58	Hypomethylated in FP vs FN
cg15831060	0.173	0.433	-0.259	0.004	NA	Hypomethylated in FP vs FN
cg02202980	0.069	0.325	-0.257	0.004	C3orf15	Hypomethylated in FP vs FN
cg07879739	0.253	0.565	-0.312	0.004	NA	Hypomethylated in FP vs FN
cg17251713	0.211	0.465	-0.254	0.004	NA	Hypomethylated in FP vs FN
cg12881363	0.287	0.564	-0.276	0.004	MOV10L1	Hypomethylated in FP vs FN
cg10440578	0.257	0.512	-0.255	0.004	NA	Hypomethylated in FP vs FN
cg18362509	0.251	0.544	-0.293	0.004	NA	Hypomethylated in FP vs FN
cg00893522	0.399	0.673	-0.274	0.004	NA	Hypomethylated in FP vs FN
cg01176516	0.230	0.508	-0.277	0.004	NA	Hypomethylated in FP vs FN
cg22964918	0.076	0.345	-0.269	0.004	NA	Hypomethylated in FP vs FN
cg06529996	0.615	0.872	-0.257	0.004	NA	Hypomethylated in FP vs FN
cg04511041	0.348	0.618	-0.270	0.004	PCDHB18	Hypomethylated in FP vs FN
cg19622623	0.261	0.518	-0.258	0.004	RASSF9	Hypomethylated in FP vs FN
cg02807882	0.348	0.605	-0.256	0.004	NA	Hypomethylated in FP vs FN
cg25390440	0.351	0.637	-0.286	0.004	GYPC	Hypomethylated in FP vs FN
cg07226193	0.072	0.360	-0.287	0.004	SWAP70	Hypomethylated in FP vs FN
cg20793665	0.386	0.652	-0.266	0.004	NA	Hypomethylated in FP vs FN
cg09339763	0.339	0.614	-0.275	0.004	HAND2	Hypomethylated in FP vs FN
cg18333921	0.134	0.409	-0.275	0.004	NA	Hypomethylated in FP vs FN
cg20912169	0.162	0.474	-0.312	0.004	ADHFE1	Hypomethylated in FP vs FN
cg23495733	0.154	0.436	-0.282	0.004	NA	Hypomethylated in FP vs FN
cg07302677	0.457	0.717	-0.260	0.004	KCP	Hypomethylated in FP vs FN
cg11580948	0.295	0.566	-0.271	0.004	NA	Hypomethylated in FP vs FN
cg00155526	0.137	0.406	-0.269	0.004	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg22778178	0.132	0.388	-0.256	0.004	NA	Hypomethylated in FP vs FN
cg16590910	0.183	0.437	-0.254	0.004	GNMT	Hypomethylated in FP vs FN
cg20373544	0.430	0.691	-0.260	0.004	NA	Hypomethylated in FP vs FN
cg02566861	0.159	0.427	-0.268	0.004	NA	Hypomethylated in FP vs FN
cg08483376	0.225	0.522	-0.297	0.004	NA	Hypomethylated in FP vs FN
cg13141009	0.170	0.474	-0.304	0.004	NA	Hypomethylated in FP vs FN
cg00786952	0.107	0.357	-0.250	0.004	NA	Hypomethylated in FP vs FN
cg06593050	0.207	0.479	-0.271	0.004	LOC441046	Hypomethylated in FP vs FN
cg10864145	0.108	0.366	-0.258	0.004	NA	Hypomethylated in FP vs FN
cg04395954	0.491	0.752	-0.260	0.004	NA	Hypomethylated in FP vs FN
cg12761825	0.182	0.447	-0.265	0.004	NA	Hypomethylated in FP vs FN
cg05184377	0.182	0.448	-0.266	0.004	NA	Hypomethylated in FP vs FN
cg04483289	0.302	0.555	-0.253	0.004	SKAP1	Hypomethylated in FP vs FN
cg22299467	0.143	0.429	-0.286	0.004	NA	Hypomethylated in FP vs FN
cg01116873	0.333	0.587	-0.254	0.004	NA	Hypomethylated in FP vs FN
cg24625136	0.371	0.648	-0.278	0.004	NA	Hypomethylated in FP vs FN
cg15721134	0.323	0.596	-0.273	0.004	NA	Hypomethylated in FP vs FN
cg09339194	0.160	0.470	-0.310	0.004	GATA5	Hypomethylated in FP vs FN
cg04707332	0.199	0.460	-0.261	0.004	NA	Hypomethylated in FP vs FN
cg20969194	0.210	0.464	-0.253	0.004	NA	Hypomethylated in FP vs FN
cg18273840	0.103	0.384	-0.282	0.004	NA	Hypomethylated in FP vs FN
cg08129583	0.332	0.603	-0.271	0.004	GYPC	Hypomethylated in FP vs FN
cg24147428	0.487	0.746	-0.259	0.004	NA	Hypomethylated in FP vs FN
cg13825574	0.189	0.456	-0.267	0.004	RNF208	Hypomethylated in FP vs FN
cg10317717	0.372	0.646	-0.274	0.004	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17444859	0.519	0.771	-0.252	0.004	NA	Hypomethylated in FP vs FN
cg16577724	0.503	0.775	-0.272	0.004	NA	Hypomethylated in FP vs FN
cg26099834	0.358	0.622	-0.264	0.004	NA	Hypomethylated in FP vs FN
cg07885629	0.454	0.705	-0.251	0.004	NA	Hypomethylated in FP vs FN
cg12864597	0.223	0.527	-0.304	0.004	GPR150	Hypomethylated in FP vs FN
cg17807131	0.177	0.494	-0.317	0.004	NA	Hypomethylated in FP vs FN
cg11260046	0.464	0.719	-0.255	0.004	MEI1	Hypomethylated in FP vs FN
cg25288420	0.275	0.565	-0.290	0.004	GIPC2	Hypomethylated in FP vs FN
cg11836236	0.246	0.529	-0.283	0.004	NA	Hypomethylated in FP vs FN
cg08741898	0.303	0.577	-0.275	0.004	NA	Hypomethylated in FP vs FN
cg05996795	0.365	0.658	-0.293	0.004	NA	Hypomethylated in FP vs FN
cg17376853	0.487	0.744	-0.257	0.004	NA	Hypomethylated in FP vs FN
cg04299389	0.306	0.574	-0.267	0.004	LOC284798	Hypomethylated in FP vs FN
cg08566455	0.153	0.407	-0.254	0.004	NA	Hypomethylated in FP vs FN
cg19464917	0.228	0.503	-0.275	0.004	ISL2	Hypomethylated in FP vs FN
cg18160135	0.285	0.555	-0.270	0.004	EIF4E	Hypomethylated in FP vs FN
cg03989125	0.094	0.363	-0.269	0.005	NA	Hypomethylated in FP vs FN
cg21488538	0.208	0.497	-0.289	0.005	NA	Hypomethylated in FP vs FN
cg12690369	0.320	0.583	-0.263	0.005	PTPRR	Hypomethylated in FP vs FN
cg06744545	0.148	0.406	-0.258	0.005	NA	Hypomethylated in FP vs FN
cg22695986	0.373	0.626	-0.253	0.005	NA	Hypomethylated in FP vs FN
cg24771804	0.209	0.497	-0.288	0.005	NA	Hypomethylated in FP vs FN
cg26736812	0.262	0.529	-0.267	0.005	NA	Hypomethylated in FP vs FN
cg13481969	0.130	0.413	-0.283	0.005	NA	Hypomethylated in FP vs FN
cg22044002	0.269	0.533	-0.264	0.005	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg17003395	0.157	0.422	-0.265	0.005	KIF16B	Hypomethylated in FP vs FN
cg02381898	0.308	0.573	-0.265	0.005	NA	Hypomethylated in FP vs FN
cg20324206	0.214	0.473	-0.258	0.005	ONECUT2	Hypomethylated in FP vs FN
cg07681935	0.388	0.646	-0.258	0.005	HAND2	Hypomethylated in FP vs FN
cg07303912	0.163	0.463	-0.300	0.005	NA	Hypomethylated in FP vs FN
cg23039195	0.385	0.661	-0.276	0.005	NA	Hypomethylated in FP vs FN
cg07870914	0.405	0.666	-0.260	0.005	NA	Hypomethylated in FP vs FN
cg07676859	0.121	0.435	-0.315	0.005	SSTR4	Hypomethylated in FP vs FN
cg17586860	0.198	0.459	-0.261	0.005	SSTR4	Hypomethylated in FP vs FN
cg10090650	0.381	0.640	-0.259	0.005	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg18872321	0.143	0.422	-0.279	0.005	GATA5	Hypomethylated in FP vs FN
cg25900085	0.277	0.561	-0.284	0.005	MIR124-2	Hypomethylated in FP vs FN
cg19912142	0.484	0.761	-0.277	0.005	NA	Hypomethylated in FP vs FN
cg16945312	0.331	0.584	-0.253	0.005	NA	Hypomethylated in FP vs FN
cg09410317	0.509	0.764	-0.256	0.005	NA	Hypomethylated in FP vs FN
cg23079808	0.365	0.648	-0.284	0.005	LTBR	Hypomethylated in FP vs FN
cg19766441	0.271	0.560	-0.289	0.005	SLC34A2	Hypomethylated in FP vs FN
cg21654383	0.359	0.667	-0.308	0.005	NA	Hypomethylated in FP vs FN
cg14896134	0.354	0.610	-0.256	0.005	NA	Hypomethylated in FP vs FN
cg04037038	0.157	0.469	-0.313	0.005	FRZB	Hypomethylated in FP vs FN
cg21166964	0.214	0.476	-0.262	0.005	NA	Hypomethylated in FP vs FN
cg18512948	0.286	0.562	-0.277	0.005	REC8	Hypomethylated in FP vs FN
cg03748376	0.290	0.603	-0.313	0.005	OR2L13	Hypomethylated in FP vs FN
cg02372145	0.275	0.578	-0.304	0.005	NA	Hypomethylated in FP vs FN
cg15221604	0.126	0.406	-0.280	0.005	NA	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05030450	0.337	0.597	-0.260	0.005	NA	Hypomethylated in FP vs FN
cg15964468	0.225	0.518	-0.293	0.005	NA	Hypomethylated in FP vs FN
cg15484651	0.356	0.612	-0.255	0.005	TMC3	Hypomethylated in FP vs FN
cg19112957	0.208	0.487	-0.278	0.005	AGBL2	Hypomethylated in FP vs FN
cg17305181	0.251	0.524	-0.273	0.005	CRH	Hypomethylated in FP vs FN
cg00201175	0.201	0.460	-0.259	0.005	NA	Hypomethylated in FP vs FN
cg16491960	0.437	0.697	-0.260	0.005	NA	Hypomethylated in FP vs FN
cg22510337	0.108	0.383	-0.275	0.005	NA	Hypomethylated in FP vs FN
cg04094148	0.190	0.450	-0.260	0.005	BARX2	Hypomethylated in FP vs FN
cg22456162	0.238	0.529	-0.291	0.005	NA	Hypomethylated in FP vs FN
cg09720833	0.262	0.542	-0.280	0.005	NA	Hypomethylated in FP vs FN
cg01745370	0.231	0.487	-0.256	0.005	GCC2	Hypomethylated in FP vs FN
cg03654472	0.363	0.661	-0.298	0.005	NA	Hypomethylated in FP vs FN
cg04072323	0.180	0.433	-0.253	0.005	SPHKAP	Hypomethylated in FP vs FN
cg01933308	0.266	0.535	-0.269	0.005	NA	Hypomethylated in FP vs FN
cg07909759	0.427	0.691	-0.263	0.005	C10orf82	Hypomethylated in FP vs FN
cg03654433	0.171	0.430	-0.259	0.005	NA	Hypomethylated in FP vs FN
cg15400591	0.430	0.686	-0.256	0.005	NA	Hypomethylated in FP vs FN
cg10303487	0.058	0.331	-0.273	0.005	DPYS	Hypomethylated in FP vs FN
cg24182470	0.099	0.397	-0.298	0.005	CPNE8	Hypomethylated in FP vs FN
cg22952142	0.327	0.624	-0.297	0.005	NA	Hypomethylated in FP vs FN
cg24346905	0.132	0.393	-0.261	0.005	NA	Hypomethylated in FP vs FN
cg05552183	0.142	0.409	-0.266	0.005	GNMT	Hypomethylated in FP vs FN
cg25023908	0.241	0.530	-0.289	0.005	NA	Hypomethylated in FP vs FN
cg09061684	0.331	0.600	-0.269	0.005	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02886375	0.253	0.525	-0.272	0.005	NA	Hypomethylated in FP vs FN
cg21249371	0.373	0.655	-0.282	0.005	KDM2B	Hypomethylated in FP vs FN
cg23137039	0.203	0.476	-0.273	0.005	PHF11	Hypomethylated in FP vs FN
cg23217512	0.133	0.391	-0.258	0.005	NA	Hypomethylated in FP vs FN
cg24534742	0.243	0.516	-0.273	0.006	NA	Hypomethylated in FP vs FN
cg18197392	0.141	0.432	-0.292	0.006	SSTR4	Hypomethylated in FP vs FN
cg16909733	0.141	0.395	-0.254	0.006	NA	Hypomethylated in FP vs FN
cg00677866	0.275	0.528	-0.253	0.006	GATA5	Hypomethylated in FP vs FN
cg07584066	0.296	0.558	-0.263	0.006	DHX40	Hypomethylated in FP vs FN
cg01135754	0.448	0.704	-0.256	0.006	NA	Hypomethylated in FP vs FN
cg00880018	0.288	0.551	-0.263	0.006	NA	Hypomethylated in FP vs FN
cg16473141	0.272	0.551	-0.279	0.006	REC8	Hypomethylated in FP vs FN
cg19777470	0.286	0.560	-0.274	0.006	NA	Hypomethylated in FP vs FN
cg03631459	0.507	0.765	-0.258	0.006	NA	Hypomethylated in FP vs FN
cg14069965	0.311	0.574	-0.263	0.006	KAAG1_DCDC2	Hypomethylated in FP vs FN
cg10627839	0.336	0.630	-0.294	0.006	NA	Hypomethylated in FP vs FN
cg06781135	0.220	0.500	-0.280	0.006	LOC100270746	Hypomethylated in FP vs FN
cg12479878	0.227	0.503	-0.275	0.006	NA	Hypomethylated in FP vs FN
cg10074409	0.345	0.618	-0.273	0.006	IRF6	Hypomethylated in FP vs FN
cg10927968	0.416	0.668	-0.253	0.006	NA	Hypomethylated in FP vs FN
cg05302386	0.067	0.335	-0.268	0.006	PTGDR	Hypomethylated in FP vs FN
cg27605748	0.117	0.382	-0.265	0.006	NA	Hypomethylated in FP vs FN
cg02794451	0.186	0.455	-0.268	0.006	NA	Hypomethylated in FP vs FN
cg13249593	0.182	0.462	-0.280	0.006	NA	Hypomethylated in FP vs FN
cg22371972	0.102	0.356	-0.255	0.006	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg02447304	0.376	0.666	-0.290	0.006	NA	Hypomethylated in FP vs FN
cg22718636	0.294	0.578	-0.284	0.006	NA	Hypomethylated in FP vs FN
cg02940714	0.472	0.722	-0.250	0.006	NA	Hypomethylated in FP vs FN
cg08604097	0.279	0.552	-0.273	0.006	NA	Hypomethylated in FP vs FN
cg00553149	0.348	0.601	-0.253	0.006	STAG3_GPC2	Hypomethylated in FP vs FN
cg23452969	0.156	0.434	-0.279	0.006	NA	Hypomethylated in FP vs FN
cg02353165	0.155	0.416	-0.262	0.006	GNMT	Hypomethylated in FP vs FN
cg23763647	0.142	0.426	-0.284	0.006	NA	Hypomethylated in FP vs FN
cg25062797	0.304	0.557	-0.252	0.006	NA	Hypomethylated in FP vs FN
cg00063174	0.122	0.390	-0.268	0.006	WDR69	Hypomethylated in FP vs FN
cg24034005	0.144	0.440	-0.296	0.006	NA	Hypomethylated in FP vs FN
cg14314029	0.189	0.455	-0.265	0.006	NA	Hypomethylated in FP vs FN
cg12630461	0.168	0.493	-0.325	0.006	NA	Hypomethylated in FP vs FN
cg09570682	0.272	0.536	-0.264	0.006	NA	Hypomethylated in FP vs FN
cg02328545	0.371	0.622	-0.251	0.006	NA	Hypomethylated in FP vs FN
cg19047707	0.181	0.440	-0.259	0.006	NA	Hypomethylated in FP vs FN
cg10135483	0.170	0.464	-0.294	0.006	HTR1E	Hypomethylated in FP vs FN
cg10742917	0.273	0.564	-0.291	0.006	NA	Hypomethylated in FP vs FN
cg03890037	0.366	0.628	-0.262	0.006	LVRN	Hypomethylated in FP vs FN
cg13356896	0.244	0.529	-0.285	0.006	BOLL	Hypomethylated in FP vs FN
cg19718882	0.365	0.626	-0.261	0.006	NA	Hypomethylated in FP vs FN
cg18905461	0.327	0.593	-0.266	0.006	NA	Hypomethylated in FP vs FN
cg03669782	0.325	0.585	-0.260	0.006	NA	Hypomethylated in FP vs FN
cg24740026	0.286	0.605	-0.319	0.006	NA	Hypomethylated in FP vs FN
cg00918181	0.373	0.635	-0.262	0.006	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg24245418	0.292	0.605	-0.314	0.006	NA	Hypomethylated in FP vs FN
cg01837362	0.248	0.510	-0.261	0.007	NA	Hypomethylated in FP vs FN
cg05221167	0.343	0.596	-0.252	0.007	ZNF560	Hypomethylated in FP vs FN
cg18846140	0.158	0.409	-0.251	0.007	HSPA1A_HSPA1L	Hypomethylated in FP vs FN
cg05033333	0.138	0.391	-0.254	0.007	NA	Hypomethylated in FP vs FN
cg04552470	0.106	0.377	-0.271	0.007	NA	Hypomethylated in FP vs FN
cg05918002	0.345	0.600	-0.255	0.007	NA	Hypomethylated in FP vs FN
cg10068989	0.223	0.511	-0.288	0.007	NA	Hypomethylated in FP vs FN
cg18674643	0.325	0.595	-0.269	0.007	NA	Hypomethylated in FP vs FN
cg03014326	0.313	0.564	-0.251	0.007	ANKRD30B	Hypomethylated in FP vs FN
cg03126579	0.270	0.577	-0.308	0.007	NA	Hypomethylated in FP vs FN
cg07673866	0.263	0.550	-0.287	0.007	KIF11	Hypomethylated in FP vs FN
cg03337057	0.277	0.540	-0.263	0.007	NA	Hypomethylated in FP vs FN
cg14861089	0.475	0.730	-0.255	0.007	NA	Hypomethylated in FP vs FN
cg18495682	0.175	0.434	-0.259	0.007	NA	Hypomethylated in FP vs FN
cg26674943	0.238	0.503	-0.265	0.007	ISL2	Hypomethylated in FP vs FN
cg17822947	0.161	0.424	-0.263	0.007	NA	Hypomethylated in FP vs FN
cg12708336	0.122	0.413	-0.290	0.007	NA	Hypomethylated in FP vs FN
cg10603004	0.233	0.490	-0.257	0.007	NKX2-6	Hypomethylated in FP vs FN
cg14106234	0.445	0.710	-0.265	0.007	NA	Hypomethylated in FP vs FN
cg21845713	0.102	0.360	-0.258	0.007	NA	Hypomethylated in FP vs FN
cg23151000	0.208	0.465	-0.258	0.007	NA	Hypomethylated in FP vs FN
cg19098763	0.160	0.461	-0.302	0.007	ELAVL4	Hypomethylated in FP vs FN
cg13062913	0.463	0.713	-0.251	0.007	NCAM2	Hypomethylated in FP vs FN
cg24540521	0.131	0.406	-0.274	0.007	THEM4	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg09022993	0.334	0.614	-0.280	0.007	SPATA18	Hypomethylated in FP vs FN
cg17064250	0.206	0.466	-0.261	0.007	RUNX2	Hypomethylated in FP vs FN
cg01754756	0.243	0.500	-0.257	0.007	C10orf116	Hypomethylated in FP vs FN
cg15449979	0.306	0.558	-0.252	0.007	NA	Hypomethylated in FP vs FN
cg04369291	0.134	0.393	-0.259	0.007	NA	Hypomethylated in FP vs FN
cg24902278	0.201	0.457	-0.256	0.007	NA	Hypomethylated in FP vs FN
cg25988317	0.210	0.464	-0.254	0.007	GATA5	Hypomethylated in FP vs FN
cg19782061	0.288	0.559	-0.271	0.007	NA	Hypomethylated in FP vs FN
cg19254119	0.332	0.586	-0.255	0.007	ZNF560	Hypomethylated in FP vs FN
cg09383816	0.191	0.449	-0.259	0.007	ADHFE1	Hypomethylated in FP vs FN
cg25681339	0.183	0.477	-0.294	0.007	BHLHA9	Hypomethylated in FP vs FN
cg19283840	0.157	0.409	-0.251	0.007	ADHFE1	Hypomethylated in FP vs FN
cg00339300	0.269	0.544	-0.275	0.007	NA	Hypomethylated in FP vs FN
cg06908778	0.271	0.541	-0.270	0.007	NA	Hypomethylated in FP vs FN
cg22338127	0.175	0.449	-0.275	0.007	IRF6	Hypomethylated in FP vs FN
cg06518618	0.400	0.666	-0.266	0.007	NA	Hypomethylated in FP vs FN
cg09643340	0.241	0.496	-0.255	0.007	NA	Hypomethylated in FP vs FN
cg14263942	0.239	0.550	-0.311	0.007	CDKL2	Hypomethylated in FP vs FN
cg18379455	0.146	0.429	-0.283	0.007	NA	Hypomethylated in FP vs FN
cg04728482	0.195	0.483	-0.288	0.007	NA	Hypomethylated in FP vs FN
cg21762788	0.343	0.634	-0.291	0.008	NA	Hypomethylated in FP vs FN
cg26202575	0.258	0.515	-0.256	0.008	KIF11	Hypomethylated in FP vs FN
cg17632299	0.305	0.601	-0.296	0.008	NA	Hypomethylated in FP vs FN
cg13181079	0.108	0.376	-0.268	0.008	HYLS1	Hypomethylated in FP vs FN
cg22817352	0.243	0.517	-0.275	0.008	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg14988503	0.249	0.524	-0.276	0.008	CDKL2	Hypomethylated in FP vs FN
cg26005766	0.407	0.694	-0.286	0.008	TPD52L1	Hypomethylated in FP vs FN
cg03147210	0.112	0.379	-0.266	0.008	THEM4	Hypomethylated in FP vs FN
cg09789636	0.230	0.493	-0.264	0.008	NA	Hypomethylated in FP vs FN
cg13128596	0.354	0.609	-0.255	0.008	CASP4	Hypomethylated in FP vs FN
cg20925841	0.088	0.344	-0.256	0.008	NA	Hypomethylated in FP vs FN
cg15060012	0.239	0.499	-0.260	0.008	ZNF418	Hypomethylated in FP vs FN
cg15690342	0.175	0.442	-0.267	0.008	NA	Hypomethylated in FP vs FN
cg04617936	0.442	0.717	-0.275	0.008	NA	Hypomethylated in FP vs FN
cg01588438	0.237	0.504	-0.267	0.008	ADHFE1	Hypomethylated in FP vs FN
cg25308427	0.097	0.356	-0.259	0.008	NA	Hypomethylated in FP vs FN
cg14236976	0.280	0.547	-0.267	0.008	NA	Hypomethylated in FP vs FN
cg04407470	0.118	0.423	-0.305	0.008	NA	Hypomethylated in FP vs FN
cg26452056	0.389	0.684	-0.296	0.008	NA	Hypomethylated in FP vs FN
cg27458265	0.243	0.512	-0.270	0.008	LPCAT2	Hypomethylated in FP vs FN
cg10084644	0.320	0.580	-0.259	0.008	STAG3_GPC2	Hypomethylated in FP vs FN
cg27628340	0.401	0.655	-0.254	0.008	NA	Hypomethylated in FP vs FN
cg07825347	0.332	0.608	-0.276	0.008	NA	Hypomethylated in FP vs FN
cg07054208	0.312	0.565	-0.254	0.008	DCDC2	Hypomethylated in FP vs FN
cg04557452	0.075	0.326	-0.251	0.008	NA	Hypomethylated in FP vs FN
cg03597976	0.197	0.483	-0.286	0.009	NA	Hypomethylated in FP vs FN
cg10344081	0.268	0.567	-0.299	0.009	CDKL2	Hypomethylated in FP vs FN
cg22534145	0.134	0.401	-0.267	0.009	SSTR4	Hypomethylated in FP vs FN
cg18059088	0.262	0.519	-0.257	0.009	HS3ST1	Hypomethylated in FP vs FN
cg24864161	0.283	0.556	-0.273	0.009	MOV10L1	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg05184311	0.434	0.697	-0.263	0.009	NA	Hypomethylated in FP vs FN
cg01446907	0.351	0.606	-0.255	0.009	NA	Hypomethylated in FP vs FN
cg08307030	0.283	0.540	-0.257	0.009	NA	Hypomethylated in FP vs FN
cg13578160	0.361	0.617	-0.255	0.009	NA	Hypomethylated in FP vs FN
cg09943716	0.135	0.388	-0.253	0.009	NA	Hypomethylated in FP vs FN
cg20295442	0.172	0.458	-0.287	0.009	ADHFE1	Hypomethylated in FP vs FN
cg07792478	0.274	0.542	-0.267	0.009	MIR124-2	Hypomethylated in FP vs FN
cg12741994	0.282	0.548	-0.266	0.009	NA	Hypomethylated in FP vs FN
cg23771603	0.213	0.489	-0.276	0.009	NA	Hypomethylated in FP vs FN
cg00169617	0.196	0.476	-0.280	0.009	NA	Hypomethylated in FP vs FN
cg26679004	0.425	0.682	-0.257	0.009	NA	Hypomethylated in FP vs FN
cg13519035	0.282	0.533	-0.250	0.009	NA	Hypomethylated in FP vs FN
cg18644703	0.196	0.479	-0.284	0.009	NA	Hypomethylated in FP vs FN
cg14285533	0.366	0.641	-0.274	0.009	NA	Hypomethylated in FP vs FN
cg14433497	0.219	0.478	-0.259	0.009	NA	Hypomethylated in FP vs FN
cg01698167	0.108	0.378	-0.271	0.009	HS3ST1	Hypomethylated in FP vs FN
cg17012575	0.103	0.383	-0.281	0.009	HYLS1	Hypomethylated in FP vs FN
cg14696334	0.293	0.593	-0.300	0.010	NA	Hypomethylated in FP vs FN
cg17898329	0.191	0.493	-0.303	0.010	NA	Hypomethylated in FP vs FN
cg19909865	0.297	0.548	-0.252	0.010	NA	Hypomethylated in FP vs FN
cg09737314	0.410	0.664	-0.255	0.010	ALOX12	Hypomethylated in FP vs FN
cg04812509	0.252	0.527	-0.275	0.010	NA	Hypomethylated in FP vs FN
cg01389445	0.178	0.432	-0.254	0.010	LRAT	Hypomethylated in FP vs FN
cg17560332	0.162	0.413	-0.252	0.010	BOLL	Hypomethylated in FP vs FN
cg01437917	0.422	0.672	-0.250	0.010	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg03738352	0.285	0.567	-0.282	0.01	SLC34A2	Hypomethylated in FP vs FN
cg11738701	0.219	0.475	-0.256	0.01	NA	Hypomethylated in FP vs FN
cg17805540	0.272	0.534	-0.261	0.01	NA	Hypomethylated in FP vs FN
cg07578695	0.272	0.528	-0.256	0.01	SLC34A2	Hypomethylated in FP vs FN
cg07103129	0.171	0.441	-0.270	0.01	NA	Hypomethylated in FP vs FN
cg15413177	0.312	0.564	-0.251	0.01	NA	Hypomethylated in FP vs FN
cg22757391	0.413	0.667	-0.254	0.01	NA	Hypomethylated in FP vs FN
cg20507276	0.316	0.567	-0.251	0.01	OR2L13	Hypomethylated in FP vs FN
cg21911021	0.403	0.657	-0.254	0.01	ZIK1	Hypomethylated in FP vs FN
cg03407747	0.402	0.653	-0.251	0.01	ALOX12	Hypomethylated in FP vs FN
cg10428345	0.392	0.644	-0.252	0.01	NA	Hypomethylated in FP vs FN
cg18237551	0.161	0.418	-0.257	0.01	ZNF300	Hypomethylated in FP vs FN
cg05475524	0.232	0.487	-0.255	0.01	NA	Hypomethylated in FP vs FN
cg15811515	0.140	0.397	-0.256	0.01	CSDAP1	Hypomethylated in FP vs FN
cg10695105	0.410	0.664	-0.254	0.01	NA	Hypomethylated in FP vs FN
cg18538958	0.183	0.456	-0.273	0.01	TACR3	Hypomethylated in FP vs FN
cg27140058	0.419	0.672	-0.253	0.01	NA	Hypomethylated in FP vs FN
cg01419831	0.241	0.541	-0.300	0.01	NA	Hypomethylated in FP vs FN
cg04922681	0.225	0.488	-0.263	0.01	NA	Hypomethylated in FP vs FN
cg26885268	0.307	0.559	-0.253	0.01	NA	Hypomethylated in FP vs FN
cg03757145	0.281	0.547	-0.267	0.01	CDKL2	Hypomethylated in FP vs FN
cg06190677	0.151	0.417	-0.266	0.01	RPL39L	Hypomethylated in FP vs FN
cg02173289	0.393	0.644	-0.252	0.01	NA	Hypomethylated in FP vs FN
cg11751707	0.307	0.559	-0.252	0.01	NA	Hypomethylated in FP vs FN
cg11150664	0.251	0.517	-0.266	0.01	KIF11	Hypomethylated in FP vs FN



### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg25547580	0.286	0.600	-0.314	0.01	ONECUT2	Hypomethylated in FP vs FN
cg27513574	0.298	0.583	-0.285	0.01	SLC34A2	Hypomethylated in FP vs FN
cg01516005	0.276	0.532	-0.256	0.01	NA	Hypomethylated in FP vs FN
cg06496344	0.344	0.603	-0.259	0.01	NA	Hypomethylated in FP vs FN
cg03860256	0.376	0.640	-0.264	0.01	MOV10L1	Hypomethylated in FP vs FN
cg13486170	0.195	0.445	-0.250	0.01	NA	Hypomethylated in FP vs FN
cg25494480	0.213	0.488	-0.274	0.01	NA	Hypomethylated in FP vs FN
cg16202331	0.342	0.599	-0.257	0.01	NA	Hypomethylated in FP vs FN
cg19677203	0.157	0.472	-0.315	0.01	HSPA1A_HSPA1L	Hypomethylated in FP vs FN
cg13090007	0.457	0.709	-0.251	0.01	NA	Hypomethylated in FP vs FN
cg25789861	0.104	0.358	-0.254	0.01	DSC3	Hypomethylated in FP vs FN
cg10169241	0.204	0.456	-0.251	0.01	NA	Hypomethylated in FP vs FN
cg21195185	0.283	0.556	-0.274	0.01	CDKL2	Hypomethylated in FP vs FN
cg08151857	0.058	0.310	-0.251	0.01	HOXB8	Hypomethylated in FP vs FN
cg12276123	0.331	0.581	-0.251	0.01	KCNJ3	Hypomethylated in FP vs FN
cg20034792	0.095	0.355	-0.260	0.01	NA	Hypomethylated in FP vs FN
cg16404157	0.402	0.662	-0.259	0.01	CLEC14A	Hypomethylated in FP vs FN
cg05196969	0.240	0.511	-0.271	0.01	NA	Hypomethylated in FP vs FN
cg26173997	0.275	0.552	-0.276	0.01	CDKL2	Hypomethylated in FP vs FN
cg20678442	0.387	0.683	-0.296	0.01	NA	Hypomethylated in FP vs FN
cg26718878	0.188	0.439	-0.252	0.01	NA	Hypomethylated in FP vs FN
cg00379720	0.345	0.607	-0.262	0.01	NA	Hypomethylated in FP vs FN
cg17446010	0.187	0.442	-0.255	0.01	NA	Hypomethylated in FP vs FN
cg16640855	0.230	0.497	-0.267	0.01	NA	Hypomethylated in FP vs FN
cg05809668	0.211	0.470	-0.260	0.01	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg16270222	0.205	0.476	-0.271	0.02	NA	Hypomethylated in FP vs FN
cg03660115	0.202	0.460	-0.258	0.02	NA	Hypomethylated in FP vs FN
cg01639032	0.137	0.395	-0.259	0.02	HSPA1A_HSPA1L	Hypomethylated in FP vs FN
cg18065361	0.117	0.370	-0.253	0.02	ADHFE1	Hypomethylated in FP vs FN
cg21051519	0.157	0.426	-0.269	0.02	PKD2L2	Hypomethylated in FP vs FN
cg25479788	0.217	0.468	-0.251	0.02	NA	Hypomethylated in FP vs FN
cg06335867	0.313	0.571	-0.258	0.02	NA	Hypomethylated in FP vs FN
cg23615741	0.426	0.682	-0.257	0.02	NA	Hypomethylated in FP vs FN
cg24444923	0.227	0.495	-0.268	0.02	NA	Hypomethylated in FP vs FN
cg00332937	0.379	0.644	-0.265	0.02	NA	Hypomethylated in FP vs FN
cg12614105	0.260	0.522	-0.263	0.02	NA	Hypomethylated in FP vs FN
cg00929855	0.153	0.441	-0.288	0.02	HSPA1A_HSPA1L	Hypomethylated in FP vs FN
cg25514273	0.389	0.642	-0.253	0.02	KLHL1	Hypomethylated in FP vs FN
cg18074954	0.172	0.435	-0.263	0.02	NA	Hypomethylated in FP vs FN
cg08701134	0.405	0.658	-0.253	0.02	NA	Hypomethylated in FP vs FN
cg24432073	0.287	0.564	-0.277	0.02	CDKL2	Hypomethylated in FP vs FN
cg01963134	0.209	0.499	-0.290	0.02	CPNE8	Hypomethylated in FP vs FN
cg25649641	0.197	0.467	-0.270	0.02	NA	Hypomethylated in FP vs FN
cg25594119	0.316	0.573	-0.256	0.02	NA	Hypomethylated in FP vs FN
cg22847691	0.174	0.481	-0.307	0.02	HSPA1A_HSPA1L	Hypomethylated in FP vs FN
cg20540209	0.187	0.444	-0.258	0.02	NA	Hypomethylated in FP vs FN
cg08944400	0.239	0.507	-0.269	0.02	NA	Hypomethylated in FP vs FN
cg10156366	0.232	0.483	-0.251	0.02	NA	Hypomethylated in FP vs FN
cg05057720	0.378	0.648	-0.270	0.02	CLEC14A	Hypomethylated in FP vs FN
cg18249634	0.215	0.468	-0.253	0.02	NA	Hypomethylated in FP vs FN

### Supplementary Table 7 (continued)

Probe	FP.mean	FN.mean	Mean.diff	Adjusted.P.value	Promoter.related.gene	Category
cg10330839	0.212	0.473	-0.261	0.02	NA	Hypomethylated in FP vs FN
cg04224064	0.336	0.596	-0.260	0.02	NA	Hypomethylated in FP vs FN
cg05064297	0.295	0.549	-0.254	0.02	NA	Hypomethylated in FP vs FN
cg07533148	0.171	0.449	-0.278	0.02	TRIM58	Hypomethylated in FP vs FN
cg27362525	0.310	0.571	-0.261	0.02	NA	Hypomethylated in FP vs FN
cg08944170	0.339	0.601	-0.262	0.02	OR2L13	Hypomethylated in FP vs FN
cg19937061	0.217	0.468	-0.251	0.02	NA	Hypomethylated in FP vs FN
cg22442454	0.234	0.515	-0.281	0.02	IRF6	Hypomethylated in FP vs FN
cg20429172	0.265	0.520	-0.255	0.02	TRIM58	Hypomethylated in FP vs FN
cg21404045	0.358	0.609	-0.251	0.03	NA	Hypomethylated in FP vs FN
cg14826425	0.328	0.581	-0.252	0.03	NA	Hypomethylated in FP vs FN
cg15132565	0.408	0.670	-0.262	0.03	NA	Hypomethylated in FP vs FN
cg15006175	0.358	0.611	-0.253	0.03	NA	Hypomethylated in FP vs FN
cg12877723	0.102	0.361	-0.259	0.03	NA	Hypomethylated in FP vs FN
cg13509195	0.168	0.437	-0.270	0.04	CPNE8	Hypomethylated in FP vs FN
cg03738025	0.278	0.535	-0.257	0.04	NA	Hypomethylated in FP vs FN
cg08441170	0.204	0.467	-0.263	0.04	MYO3A	Hypomethylated in FP vs FN
cg26680520	0.227	0.487	-0.260	0.04	NA	Hypomethylated in FP vs FN
cg18147485	0.191	0.468	-0.277	0.04	KCNV1	Hypomethylated in FP vs FN