

**Supplementary Table 10. Differentially expressed genes in FP versus FN tumors**

<b>Symbol</b>	<b>Log2.Fold.Change</b>	<b>Log2.AveExpr</b>	<b>Adjusted.P.value</b>	<b>Category</b>
PRDM12	11.812	0.634	0	Overexpressed in FP versus FN
PIPOX	6.668	4.609	0	Overexpressed in FP versus FN
NOS1	10.774	2.393	0	Overexpressed in FP versus FN
CCDC154	5.920	4.103	0	Overexpressed in FP versus FN
NRN1	3.706	5.366	0	Overexpressed in FP versus FN
QDPR	2.397	5.642	0	Overexpressed in FP versus FN
XRN1	2.391	6.714	0	Overexpressed in FP versus FN
CDH3	4.552	4.564	0	Overexpressed in FP versus FN
LRRC10B	5.879	2.490	0	Overexpressed in FP versus FN
ADRA2C	4.757	4.325	0	Overexpressed in FP versus FN
GATA4	8.007	0.667	0	Overexpressed in FP versus FN
ASS1	5.379	6.431	0	Overexpressed in FP versus FN
KCNJ5	4.497	3.137	0	Overexpressed in FP versus FN
PITPNM3	4.456	6.494	0	Overexpressed in FP versus FN
MYO1E	1.913	5.670	0	Overexpressed in FP versus FN
ANKS6	2.020	6.598	0	Overexpressed in FP versus FN
KIAA1614	2.886	5.501	0	Overexpressed in FP versus FN
SLC25A29	2.639	6.755	0	Overexpressed in FP versus FN
B3GAT1	7.261	2.177	0	Overexpressed in FP versus FN
CASP9	1.849	5.521	0	Overexpressed in FP versus FN
CNR1	8.681	3.385	0	Overexpressed in FP versus FN
LOC100289137	5.183	3.997	0	Overexpressed in FP versus FN
LPAR2	2.264	5.719	0	Overexpressed in FP versus FN
WSCD1	2.823	7.689	0	Overexpressed in FP versus FN
NHLH1	4.457	3.127	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM201	1.842	6.497	0	Overexpressed in FP versus FN
FAM201A	4.341	1.062	0	Overexpressed in FP versus FN
OLIG1	8.964	1.347	0	Overexpressed in FP versus FN
TARSL2	1.841	5.426	0	Overexpressed in FP versus FN
ASTN2	2.895	4.226	0	Overexpressed in FP versus FN
DRGX	9.034	-1.758	0	Overexpressed in FP versus FN
LOC283177	6.122	-2.946	0	Overexpressed in FP versus FN
TFAP2E	2.812	3.392	0	Overexpressed in FP versus FN
PODXL	2.165	6.798	0	Overexpressed in FP versus FN
CELA2A	6.158	0.742	0	Overexpressed in FP versus FN
LRRFIP2	1.250	6.131	0	Overexpressed in FP versus FN
PBX4	2.402	3.722	0	Overexpressed in FP versus FN
SEL1L3	1.962	6.540	0	Overexpressed in FP versus FN
NMRK1	2.723	4.198	0	Overexpressed in FP versus FN
SSTR5	4.826	2.804	0	Overexpressed in FP versus FN
GADD45G	2.790	5.255	0	Overexpressed in FP versus FN
FGF8	5.114	3.205	0	Overexpressed in FP versus FN
SPIN2B	1.803	2.655	0	Overexpressed in FP versus FN
ALK	4.678	3.701	0	Overexpressed in FP versus FN
FOXF1	4.924	2.950	0	Overexpressed in FP versus FN
VIPR2	4.382	4.904	0	Overexpressed in FP versus FN
DLK2	3.176	3.079	0	Overexpressed in FP versus FN
ROGDI	1.667	4.730	0	Overexpressed in FP versus FN
ARMCX6	1.168	4.269	0	Overexpressed in FP versus FN
TSC22D2	1.608	6.670	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
MYLIP	1.896	6.040	0	Overexpressed in FP versus FN
HDAC11	1.647	5.165	0	Overexpressed in FP versus FN
SHB	1.387	5.379	0	Overexpressed in FP versus FN
SORCS1	5.813	3.411	0	Overexpressed in FP versus FN
ZNF57	1.827	3.985	0	Overexpressed in FP versus FN
LOC100133461	7.175	-2.682	0	Overexpressed in FP versus FN
CCDC3	2.693	6.257	0	Overexpressed in FP versus FN
CELA2B	4.897	2.278	0	Overexpressed in FP versus FN
NELL1	4.620	3.994	0	Overexpressed in FP versus FN
PRKAG2-AS1	3.308	1.544	0	Overexpressed in FP versus FN
PLEKHG4B	4.660	4.130	0	Overexpressed in FP versus FN
TUBA3FP	3.293	0.845	0	Overexpressed in FP versus FN
SSTR5-AS1	4.180	1.227	0	Overexpressed in FP versus FN
ADAMTS14	3.221	6.830	0	Overexpressed in FP versus FN
FAM89A	2.030	4.489	0	Overexpressed in FP versus FN
LOC643355	3.696	0.617	0	Overexpressed in FP versus FN
SNAI1	2.445	4.557	0	Overexpressed in FP versus FN
C16orf45	2.098	5.766	0	Overexpressed in FP versus FN
PPM1H	2.897	4.273	0	Overexpressed in FP versus FN
BAIAP2L1	3.059	4.488	0	Overexpressed in FP versus FN
ARRB1	2.528	6.227	0	Overexpressed in FP versus FN
OLIG2	9.376	0.305	0	Overexpressed in FP versus FN
SGMS1	1.929	4.629	0	Overexpressed in FP versus FN
BRSK2	5.166	3.077	0	Overexpressed in FP versus FN
NRCAM	3.197	5.124	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DNASE1L1	1.560	4.154	0	Overexpressed in FP versus FN
QSOX2	1.630	6.323	0	Overexpressed in FP versus FN
C14orf101	1.269	5.302	0	Overexpressed in FP versus FN
P2RX6	3.530	4.139	0	Overexpressed in FP versus FN
CABLES1	2.242	5.552	0	Overexpressed in FP versus FN
FRMPD1	1.679	6.075	0	Overexpressed in FP versus FN
FGFR2	4.877	3.410	0	Overexpressed in FP versus FN
ABAT	2.649	7.410	0	Overexpressed in FP versus FN
ARHGEF4	3.857	4.095	0	Overexpressed in FP versus FN
TRPV1	1.779	5.541	0	Overexpressed in FP versus FN
NKX6-2	5.528	-1.966	0	Overexpressed in FP versus FN
LOC400548	3.174	2.405	0	Overexpressed in FP versus FN
ACOT9	1.347	5.220	0	Overexpressed in FP versus FN
CYB561	2.129	4.580	0	Overexpressed in FP versus FN
MYCN	2.452	6.300	0	Overexpressed in FP versus FN
DAPK1	1.798	6.986	0	Overexpressed in FP versus FN
CCDC40	2.121	4.635	0	Overexpressed in FP versus FN
MAP6	3.838	4.059	0	Overexpressed in FP versus FN
ELMO1	1.683	6.218	0	Overexpressed in FP versus FN
RAPGEF1	1.321	7.300	0	Overexpressed in FP versus FN
MLYCD	1.474	4.081	0	Overexpressed in FP versus FN
SLC16A10	2.524	3.137	0	Overexpressed in FP versus FN
GMIP	1.781	5.013	0	Overexpressed in FP versus FN
MYO18A	1.445	6.877	0	Overexpressed in FP versus FN
IRX1	6.222	0.792	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DTWD1	1.179	4.632	0	Overexpressed in FP versus FN
ARHGAP26	2.371	5.905	0	Overexpressed in FP versus FN
SARDH	2.053	4.385	0	Overexpressed in FP versus FN
TMEM132D	3.681	3.645	0	Overexpressed in FP versus FN
MIMT1	2.208	2.585	0	Overexpressed in FP versus FN
CILP2	3.052	4.380	0	Overexpressed in FP versus FN
TOX3	4.447	2.912	0	Overexpressed in FP versus FN
KCNN3	1.803	6.146	0	Overexpressed in FP versus FN
DIXDC1	1.719	5.831	0	Overexpressed in FP versus FN
GMPR	2.383	4.007	0	Overexpressed in FP versus FN
SSH2	1.213	6.102	0	Overexpressed in FP versus FN
PITRM1	1.342	6.357	0	Overexpressed in FP versus FN
NKAIN1	2.859	4.825	0	Overexpressed in FP versus FN
CPA5	5.026	3.817	0	Overexpressed in FP versus FN
FAN1	1.025	5.760	0	Overexpressed in FP versus FN
SYN2	3.733	3.785	0	Overexpressed in FP versus FN
FAM108B1	1.523	5.223	0	Overexpressed in FP versus FN
ANKRD18A	4.108	2.259	0	Overexpressed in FP versus FN
SLC25A34	2.084	4.114	0	Overexpressed in FP versus FN
PCSK6	2.310	4.639	0	Overexpressed in FP versus FN
ENGASE	1.532	6.277	0	Overexpressed in FP versus FN
ALAD	1.255	5.771	0	Overexpressed in FP versus FN
CRMP1	2.678	6.648	0	Overexpressed in FP versus FN
EEF2K	1.112	6.156	0	Overexpressed in FP versus FN
PKN3	1.584	5.243	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
C12orf76	1.197	4.153	0	Overexpressed in FP versus FN
FITM1	2.198	6.418	0	Overexpressed in FP versus FN
ARHGAP25	2.590	4.705	0	Overexpressed in FP versus FN
PBK	1.683	5.160	0	Overexpressed in FP versus FN
TRIB3	2.365	3.731	0	Overexpressed in FP versus FN
MCHR1	4.293	2.274	0	Overexpressed in FP versus FN
POR	1.368	7.009	0	Overexpressed in FP versus FN
C10orf71	2.583	3.928	0	Overexpressed in FP versus FN
NUDT11	2.456	4.561	0	Overexpressed in FP versus FN
FOXD4	2.339	1.370	0	Overexpressed in FP versus FN
RASL10A	2.475	3.137	0	Overexpressed in FP versus FN
KCNIP4	3.145	2.551	0	Overexpressed in FP versus FN
KLHL29	1.454	6.141	0	Overexpressed in FP versus FN
MFSD10	1.380	6.572	0	Overexpressed in FP versus FN
EMC9	1.361	5.234	0	Overexpressed in FP versus FN
EDN3	3.472	5.703	0	Overexpressed in FP versus FN
ARL3	1.387	5.512	0	Overexpressed in FP versus FN
SLC24A3	1.547	5.681	0	Overexpressed in FP versus FN
ACYP1	1.187	4.150	0	Overexpressed in FP versus FN
GREM1	6.557	2.536	0	Overexpressed in FP versus FN
ZNF491	1.982	3.243	0	Overexpressed in FP versus FN
DBC1	4.667	0.836	0	Overexpressed in FP versus FN
C11orf45	1.886	2.440	0	Overexpressed in FP versus FN
JARID2	1.068	6.369	0	Overexpressed in FP versus FN
JAKMIP3	3.015	1.375	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM120A	1.414	5.652	0	Overexpressed in FP versus FN
SH2D5	4.376	3.722	0	Overexpressed in FP versus FN
BNIP3	2.011	5.567	0	Overexpressed in FP versus FN
MEOX1	2.382	4.605	0	Overexpressed in FP versus FN
THAP7-AS1	2.106	2.560	0	Overexpressed in FP versus FN
ERRFI1	2.072	6.225	0	Overexpressed in FP versus FN
SCN4A	3.212	5.363	0	Overexpressed in FP versus FN
DLGAP1-AS1	1.658	4.015	0	Overexpressed in FP versus FN
HDAC5	1.500	7.168	0	Overexpressed in FP versus FN
JAKMIP2	3.085	4.555	0	Overexpressed in FP versus FN
BCAM	1.955	7.254	0	Overexpressed in FP versus FN
MEDAG	3.086	4.836	0	Overexpressed in FP versus FN
FBXO10	1.157	6.549	0	Overexpressed in FP versus FN
NRTN	4.071	2.535	0	Overexpressed in FP versus FN
DAPL1	6.565	-1.303	0	Overexpressed in FP versus FN
LTK	2.690	4.072	0	Overexpressed in FP versus FN
FGFR3	3.838	3.617	0	Overexpressed in FP versus FN
C22orf31	2.347	1.515	0	Overexpressed in FP versus FN
ELOVL2	3.145	3.800	0	Overexpressed in FP versus FN
CHRNA6	4.840	-1.727	0	Overexpressed in FP versus FN
NTN5	5.820	3.257	0	Overexpressed in FP versus FN
PGBD5	1.737	6.597	0	Overexpressed in FP versus FN
FAM81A	4.863	1.059	0	Overexpressed in FP versus FN
MGC15885	2.928	0.086	0	Overexpressed in FP versus FN
KIAA0556	1.049	5.333	0	Overexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DUSP26	3.175	3.833	0	Overexpressed in FP versus FN
TSPYL6	5.151	-0.979	0	Overexpressed in FP versus FN
LINC00588	4.789	1.702	0	Overexpressed in FP versus FN
ANKRD34B	6.819	-0.819	0	Overexpressed in FP versus FN
TLE1	1.618	5.325	0	Overexpressed in FP versus FN
ITPKB	1.280	5.911	0	Overexpressed in FP versus FN
FOXD4L6	4.440	-2.600	0	Overexpressed in FP versus FN
GADD45A	1.653	5.460	0	Overexpressed in FP versus FN
TIAF1	2.109	1.940	0	Overexpressed in FP versus FN
FPGS	1.023	5.990	0	Overexpressed in FP versus FN
TBCD	1.209	7.389	0	Overexpressed in FP versus FN
KANK1	1.594	5.472	0	Overexpressed in FP versus FN
KCND3	3.353	1.488	0	Overexpressed in FP versus FN
GPRC5A	3.217	1.511	0	Overexpressed in FP versus FN
RBFOX3	3.070	0.983	0	Overexpressed in FP versus FN
LIPG	3.383	3.817	0	Overexpressed in FP versus FN
RASSF10	4.717	1.714	0	Overexpressed in FP versus FN
PTPLA	3.404	0.534	0	Overexpressed in FP versus FN
DLGAP2	6.105	1.977	0	Overexpressed in FP versus FN
LOC440288	1.501	2.765	0	Overexpressed in FP versus FN
ARSF	5.478	-1.361	0	Overexpressed in FP versus FN
DNAJB5	1.584	4.197	0	Overexpressed in FP versus FN
WDR34	1.410	6.138	0	Overexpressed in FP versus FN
C20orf166-AS1	3.338	5.912	0	Overexpressed in FP versus FN
RAP1GAP2	2.933	5.566	0	Overexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RASSF4	2.269	8.277	0	Overexpressed in FP versus FN
REC8	2.515	5.390	0	Overexpressed in FP versus FN
GLB1L2	2.997	2.632	0	Overexpressed in FP versus FN
ZNF248	1.046	5.555	0	Overexpressed in FP versus FN
PKP1	4.977	5.057	0	Overexpressed in FP versus FN
GJD4	3.281	1.351	0	Overexpressed in FP versus FN
LOC339166	3.515	2.208	0	Overexpressed in FP versus FN
FLVCR2	2.471	3.614	0	Overexpressed in FP versus FN
LOC646278	3.413	-0.872	0	Overexpressed in FP versus FN
PCYT2	1.439	4.492	0	Overexpressed in FP versus FN
STK32C	2.403	5.240	0	Overexpressed in FP versus FN
FAM213A	1.422	6.378	0	Overexpressed in FP versus FN
RASD1	2.473	4.886	0	Overexpressed in FP versus FN
ADRA2A	2.856	3.817	0	Overexpressed in FP versus FN
SERPIND1	4.650	-1.274	0	Overexpressed in FP versus FN
ACAT1	1.100	5.872	0	Overexpressed in FP versus FN
CNTNAP3	3.468	0.790	0	Overexpressed in FP versus FN
FENDRR	6.790	0.691	0	Overexpressed in FP versus FN
ATP2B2	4.319	0.610	0	Overexpressed in FP versus FN
PRKAG2	1.583	4.318	0	Overexpressed in FP versus FN
RAPH1	1.281	6.657	0	Overexpressed in FP versus FN
GKAP1	1.421	3.695	0	Overexpressed in FP versus FN
VWA5A	1.663	4.401	0	Overexpressed in FP versus FN
SCUBE1	3.820	2.629	0	Overexpressed in FP versus FN
MYCNOS	2.281	1.893	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ZNF404	1.765	3.075	0	Overexpressed in FP versus FN
LOC286083	6.875	-0.904	0	Overexpressed in FP versus FN
LHX1	5.468	0.092	0	Overexpressed in FP versus FN
CPPED1	1.588	4.331	0	Overexpressed in FP versus FN
NEUROD2	6.418	-0.948	0	Overexpressed in FP versus FN
COX10	1.201	4.546	0	Overexpressed in FP versus FN
TFAP2B	8.854	2.739	0	Overexpressed in FP versus FN
KIRREL3	4.236	2.297	0	Overexpressed in FP versus FN
FIBCD1	5.884	-0.364	0	Overexpressed in FP versus FN
ECHS1	1.444	6.753	0	Overexpressed in FP versus FN
GPR123	2.420	5.108	0	Overexpressed in FP versus FN
NOXO1	1.635	2.080	0	Overexpressed in FP versus FN
LOC100144604	2.902	3.123	0	Overexpressed in FP versus FN
FUT5	4.622	-1.477	0	Overexpressed in FP versus FN
RABL6	1.165	7.326	0	Overexpressed in FP versus FN
C20orf194	1.100	5.727	0	Overexpressed in FP versus FN
EXTL1	1.445	3.939	0	Overexpressed in FP versus FN
SIRT4	1.167	2.300	0	Overexpressed in FP versus FN
EPM2A	1.049	3.337	0	Overexpressed in FP versus FN
BDH1	1.998	3.227	0	Overexpressed in FP versus FN
ALG1L9P	2.331	1.802	0	Overexpressed in FP versus FN
PTPRT	3.609	4.793	0	Overexpressed in FP versus FN
KCNIP1	3.559	3.209	0	Overexpressed in FP versus FN
ANKS1B	2.930	2.164	0	Overexpressed in FP versus FN
MYO18B	1.999	7.121	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
NEU4	3.002	4.939	0	Overexpressed in FP versus FN
SPATS2L	1.406	9.038	0	Overexpressed in FP versus FN
SAMD4A	1.239	6.622	0	Overexpressed in FP versus FN
C8orf34	4.265	1.166	0	Overexpressed in FP versus FN
WNT5B	1.930	4.199	0	Overexpressed in FP versus FN
IRX3	2.048	4.315	0	Overexpressed in FP versus FN
C3orf70	2.012	4.527	0	Overexpressed in FP versus FN
IGFBPL1	1.999	3.907	0	Overexpressed in FP versus FN
IAH1	1.127	5.311	0	Overexpressed in FP versus FN
SULF2	1.418	8.251	0	Overexpressed in FP versus FN
TFF3	4.952	2.986	0	Overexpressed in FP versus FN
PAX2	5.390	2.282	0	Overexpressed in FP versus FN
IGSF21	5.059	1.705	0	Overexpressed in FP versus FN
MGC21881	1.372	1.845	0	Overexpressed in FP versus FN
C4orf6	4.050	-0.613	0	Overexpressed in FP versus FN
RNF150	1.961	3.868	0	Overexpressed in FP versus FN
ABCG1	1.616	5.227	0	Overexpressed in FP versus FN
PDZRN3	1.496	6.410	0	Overexpressed in FP versus FN
GAA	1.281	6.939	0	Overexpressed in FP versus FN
MUSTN1	2.126	1.475	0	Overexpressed in FP versus FN
TBCA	1.394	6.901	0	Overexpressed in FP versus FN
ACO1	1.193	5.623	0	Overexpressed in FP versus FN
PGM5	2.141	4.952	0	Overexpressed in FP versus FN
CHST8	4.596	3.072	0	Overexpressed in FP versus FN
ADAM10	1.045	6.148	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DPCD	1.231	3.890	0	Overexpressed in FP versus FN
SEZ6	5.282	2.960	0	Overexpressed in FP versus FN
SMPDL3A	1.501	4.655	0	Overexpressed in FP versus FN
EXOC3L1	2.495	4.241	0	Overexpressed in FP versus FN
RUNX2	2.389	4.638	0	Overexpressed in FP versus FN
RGS17	1.952	0.836	0	Overexpressed in FP versus FN
ZNF781	1.679	3.734	0	Overexpressed in FP versus FN
MYLK4	2.539	6.072	0	Overexpressed in FP versus FN
ASB2	2.689	4.181	0	Overexpressed in FP versus FN
DNAH17	2.003	4.833	0	Overexpressed in FP versus FN
ITIH4	1.990	4.682	0	Overexpressed in FP versus FN
PLEKHH1	2.709	3.415	0	Overexpressed in FP versus FN
PEX11A	1.925	2.053	0	Overexpressed in FP versus FN
C9orf85	1.156	3.449	0	Overexpressed in FP versus FN
HSPB2	2.685	5.677	0	Overexpressed in FP versus FN
NOL3	1.527	4.993	0	Overexpressed in FP versus FN
CHRN3	8.750	-1.901	0	Overexpressed in FP versus FN
POLG2	1.064	4.656	0	Overexpressed in FP versus FN
NPPA	3.387	1.819	0	Overexpressed in FP versus FN
ENO3	2.543	7.861	0	Overexpressed in FP versus FN
FAM189A1	3.650	2.047	0	Overexpressed in FP versus FN
TMEM8C	2.402	5.655	0	Overexpressed in FP versus FN
TSPAN3	1.183	8.420	0	Overexpressed in FP versus FN
DOCK9	1.217	7.312	0	Overexpressed in FP versus FN
COX7A1	2.106	3.972	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SDK1	1.967	4.654	0	Overexpressed in FP versus FN
TMC2	2.900	-0.261	0	Overexpressed in FP versus FN
SH3BGR	2.040	4.307	0	Overexpressed in FP versus FN
FCRLB	2.900	0.194	0	Overexpressed in FP versus FN
DLL1	1.669	6.042	0	Overexpressed in FP versus FN
ENDOG	1.541	2.507	0	Overexpressed in FP versus FN
DDR1	1.025	7.129	0	Overexpressed in FP versus FN
FCRLA	6.950	1.981	0	Overexpressed in FP versus FN
RNF186	5.900	-1.292	0	Overexpressed in FP versus FN
EBF4	2.472	4.268	0	Overexpressed in FP versus FN
MAPK4	3.670	1.751	0	Overexpressed in FP versus FN
DHFR	1.107	5.934	0	Overexpressed in FP versus FN
MAMDC4	1.130	4.867	0	Overexpressed in FP versus FN
CCDC140	4.029	-1.767	0	Overexpressed in FP versus FN
TRIM67	5.566	1.333	0	Overexpressed in FP versus FN
POPDC3	1.553	5.517	0	Overexpressed in FP versus FN
3-Mar	1.049	5.116	0	Overexpressed in FP versus FN
ANKS1A	1.247	6.765	0	Overexpressed in FP versus FN
SLC16A2	1.058	6.029	0	Overexpressed in FP versus FN
MAMLD1	1.517	4.403	0	Overexpressed in FP versus FN
JAKMIP1	3.225	0.254	0	Overexpressed in FP versus FN
MAGI1	1.143	6.233	0	Overexpressed in FP versus FN
LOC440896	6.918	0.423	0	Overexpressed in FP versus FN
ACVR1C	2.962	1.650	0	Overexpressed in FP versus FN
MAN1C1	1.392	5.652	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PSEN2	1.563	6.327	0	Overexpressed in FP versus FN
MPC1	1.103	5.031	0	Overexpressed in FP versus FN
CDK2AP1	1.346	8.236	0	Overexpressed in FP versus FN
LOC100272217	1.448	1.394	0	Overexpressed in FP versus FN
ARHGAP6	1.477	4.769	0	Overexpressed in FP versus FN
NANOS1	1.336	4.815	0	Overexpressed in FP versus FN
FAM222A	1.626	4.639	0	Overexpressed in FP versus FN
KRT80	2.380	3.315	0	Overexpressed in FP versus FN
LOC283683	4.339	-0.487	0	Overexpressed in FP versus FN
IGSF5	2.054	1.396	0	Overexpressed in FP versus FN
OSGIN1	2.473	0.996	0	Overexpressed in FP versus FN
TMEM178B	3.364	3.068	0	Overexpressed in FP versus FN
MREG	1.326	3.636	0	Overexpressed in FP versus FN
LMF1	1.793	8.251	0	Overexpressed in FP versus FN
PPAP2A	1.227	5.351	0	Overexpressed in FP versus FN
DOK7	1.888	5.826	0	Overexpressed in FP versus FN
RPL3L	4.450	-0.792	0	Overexpressed in FP versus FN
OTX2	8.130	1.209	0	Overexpressed in FP versus FN
TSPAN15	1.706	5.320	0	Overexpressed in FP versus FN
TMEM120B	1.067	6.252	0	Overexpressed in FP versus FN
MTERFD3	1.185	5.602	0	Overexpressed in FP versus FN
TTC39C	2.097	3.820	0	Overexpressed in FP versus FN
BMP5	5.466	1.690	0	Overexpressed in FP versus FN
KIAA0895L	1.028	6.483	0	Overexpressed in FP versus FN
MYB	2.061	2.332	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM189	1.131	5.628	0	Overexpressed in FP versus FN
SEC1P	4.627	1.873	0	Overexpressed in FP versus FN
MSI2	1.031	4.681	0	Overexpressed in FP versus FN
KSR2	2.386	1.081	0	Overexpressed in FP versus FN
LOC643669	3.969	3.921	0	Overexpressed in FP versus FN
GCAT	1.346	3.852	0	Overexpressed in FP versus FN
MYL2	4.504	-0.439	0	Overexpressed in FP versus FN
TEX14	2.974	3.976	0	Overexpressed in FP versus FN
DNMBP	1.021	5.543	0	Overexpressed in FP versus FN
SUPT3H	1.495	4.235	0	Overexpressed in FP versus FN
MPO	3.553	2.712	0	Overexpressed in FP versus FN
DMRTA2	5.598	-0.126	0	Overexpressed in FP versus FN
ZNF671	1.648	3.333	0	Overexpressed in FP versus FN
OLFML2B	1.590	7.589	0	Overexpressed in FP versus FN
CDC14B	1.398	5.061	0	Overexpressed in FP versus FN
MRPL41	1.370	5.104	0	Overexpressed in FP versus FN
WVOX	1.048	3.726	0	Overexpressed in FP versus FN
C14orf132	2.013	5.374	0	Overexpressed in FP versus FN
NR0B1	6.375	-0.570	0	Overexpressed in FP versus FN
KLF7	1.138	5.806	0	Overexpressed in FP versus FN
FAM227B	1.261	1.790	0	Overexpressed in FP versus FN
LOC100506388	1.687	1.936	0	Overexpressed in FP versus FN
NAT8L	2.796	2.470	0	Overexpressed in FP versus FN
MNX1	3.238	-1.060	0	Overexpressed in FP versus FN
RD3	4.233	-0.915	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
LINC00689	4.185	2.378	0	Overexpressed in FP versus FN
CHST9	3.742	0.740	0	Overexpressed in FP versus FN
CBLN2	4.450	0.863	0	Overexpressed in FP versus FN
ABCC5	1.067	7.089	0	Overexpressed in FP versus FN
EDN2	3.158	-0.051	0	Overexpressed in FP versus FN
ACTA1	4.001	5.840	0	Overexpressed in FP versus FN
ZNF334	2.717	3.999	0	Overexpressed in FP versus FN
CASZ1	1.672	5.781	0	Overexpressed in FP versus FN
MORC4	1.095	6.639	0	Overexpressed in FP versus FN
KANK4	2.268	6.834	0	Overexpressed in FP versus FN
FAM196A	2.664	2.696	0	Overexpressed in FP versus FN
CDHR1	3.335	1.470	0	Overexpressed in FP versus FN
SEMA5A	1.941	5.322	0	Overexpressed in FP versus FN
EFHD2	1.356	7.469	0	Overexpressed in FP versus FN
GRHPR	1.020	6.301	0	Overexpressed in FP versus FN
LOC643837	1.267	5.237	0	Overexpressed in FP versus FN
CACNA2D3	2.935	3.304	0	Overexpressed in FP versus FN
KCNG2	2.158	1.798	0	Overexpressed in FP versus FN
CBFA2T3	1.755	4.731	0	Overexpressed in FP versus FN
OTUD7A	1.964	0.457	0	Overexpressed in FP versus FN
CLGN	3.019	0.813	0	Overexpressed in FP versus FN
PEG3	1.619	9.097	0	Overexpressed in FP versus FN
TPPP3	1.961	5.840	0	Overexpressed in FP versus FN
SYT17	1.972	3.374	0	Overexpressed in FP versus FN
DMRT2	2.558	4.460	0	Overexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
KIF19	3.864	3.724	0	Overexpressed in FP versus FN
SREBF1	1.047	6.194	0	Overexpressed in FP versus FN
ARHGDI3	3.394	1.497	0	Overexpressed in FP versus FN
MIR497HG	1.917	1.472	0	Overexpressed in FP versus FN
LAMA1	2.544	4.718	0	Overexpressed in FP versus FN
AATK	1.357	4.924	0	Overexpressed in FP versus FN
MICAL1	1.612	8.052	0	Overexpressed in FP versus FN
NSMCE1	1.028	5.917	0	Overexpressed in FP versus FN
FAM181A	3.488	-1.742	0	Overexpressed in FP versus FN
FOXC2	2.181	1.421	0	Overexpressed in FP versus FN
CDC42EP3	1.050	7.192	0	Overexpressed in FP versus FN
DPP6	3.836	2.788	0	Overexpressed in FP versus FN
HOGA1	4.216	-0.324	0	Overexpressed in FP versus FN
PAX3	4.186	1.786	0	Overexpressed in FP versus FN
TLX3	4.280	-0.005	0	Overexpressed in FP versus FN
GRM3	5.335	-0.715	0	Overexpressed in FP versus FN
SLC7A4	2.855	0.453	0	Overexpressed in FP versus FN
NFATC2	2.041	4.121	0	Overexpressed in FP versus FN
IFT140	1.204	5.116	0	Overexpressed in FP versus FN
CRNDE	1.244	4.214	0	Overexpressed in FP versus FN
SYNDIG1	2.929	2.788	0	Overexpressed in FP versus FN
MAP6D1	1.805	4.770	0	Overexpressed in FP versus FN
EPHA8	4.689	2.310	0	Overexpressed in FP versus FN
AGXT	4.461	2.059	0	Overexpressed in FP versus FN
CALCR	3.747	0.044	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CD79B	2.342	3.113	0	Overexpressed in FP versus FN
CD47	1.278	6.330	0	Overexpressed in FP versus FN
LSS	1.178	7.002	0	Overexpressed in FP versus FN
XKR7	3.978	-2.657	0	Overexpressed in FP versus FN
NTSR1	2.961	1.033	0	Overexpressed in FP versus FN
ATP8B4	1.851	2.719	0	Overexpressed in FP versus FN
PROX1	1.755	6.090	0	Overexpressed in FP versus FN
LINC00472	1.846	2.118	0	Overexpressed in FP versus FN
GRM6	2.002	0.885	0	Overexpressed in FP versus FN
BZRAP1	2.598	4.072	0	Overexpressed in FP versus FN
RGR	1.997	4.528	0	Overexpressed in FP versus FN
FOXL1	2.080	1.304	0	Overexpressed in FP versus FN
SLC46A3	1.433	3.316	0	Overexpressed in FP versus FN
GAD1	3.661	2.182	0	Overexpressed in FP versus FN
DNAH5	2.799	0.097	0	Overexpressed in FP versus FN
SLC18A1	4.273	1.101	0	Overexpressed in FP versus FN
BCL11A	1.995	4.594	0	Overexpressed in FP versus FN
HES6	1.785	7.454	0	Overexpressed in FP versus FN
CD8B	3.195	0.618	0	Overexpressed in FP versus FN
PKD1L2	3.307	-1.536	0	Overexpressed in FP versus FN
INPPL1	1.082	9.095	0	Overexpressed in FP versus FN
TRIM8	1.041	6.713	0	Overexpressed in FP versus FN
SLC7A7	1.340	5.470	0	Overexpressed in FP versus FN
IL4R	1.299	6.356	0	Overexpressed in FP versus FN
NALCN	3.100	0.355	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FAM64A	1.036	5.630	0	Overexpressed in FP versus FN
MEGF10	1.085	8.236	0	Overexpressed in FP versus FN
FRMD3	1.342	4.809	0	Overexpressed in FP versus FN
LOC100996455	2.011	0.530	0	Overexpressed in FP versus FN
WARS	1.005	6.517	0	Overexpressed in FP versus FN
SORBS1	1.757	4.999	0	Overexpressed in FP versus FN
NEUROG2	3.878	-1.467	0	Overexpressed in FP versus FN
FURIN	1.090	6.202	0	Overexpressed in FP versus FN
GBP2	1.689	4.613	0	Overexpressed in FP versus FN
DBH	1.661	3.656	0	Overexpressed in FP versus FN
ASRGL1	1.434	3.944	0	Overexpressed in FP versus FN
RRAGD	1.356	5.100	0	Overexpressed in FP versus FN
IRX2	3.112	1.868	0	Overexpressed in FP versus FN
THSD4	1.516	5.851	0	Overexpressed in FP versus FN
IFITM10	2.156	3.532	0	Overexpressed in FP versus FN
NAV2	1.447	6.533	0	Overexpressed in FP versus FN
PDE4DIP	1.685	6.567	0	Overexpressed in FP versus FN
C9orf172	1.959	1.452	0	Overexpressed in FP versus FN
CAPN11	1.685	2.044	0	Overexpressed in FP versus FN
MIR210HG	1.618	3.066	0	Overexpressed in FP versus FN
FOXI1	5.643	-2.422	0	Overexpressed in FP versus FN
TMEM56	2.999	3.442	0	Overexpressed in FP versus FN
SLC6A18	3.471	-3.328	0	Overexpressed in FP versus FN
PTGR1	1.340	4.828	0	Overexpressed in FP versus FN
CCKBR	5.829	-1.968	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FGGY	1.459	3.160	0	Overexpressed in FP versus FN
ADORA2A	1.191	3.793	0	Overexpressed in FP versus FN
TLE6	1.556	1.416	0	Overexpressed in FP versus FN
TGM3	4.465	0.494	0	Overexpressed in FP versus FN
PLS1	2.823	-0.085	0	Overexpressed in FP versus FN
ASIC1	1.337	5.299	0	Overexpressed in FP versus FN
PCBD1	1.025	5.392	0	Overexpressed in FP versus FN
KCNS3	1.332	4.901	0	Overexpressed in FP versus FN
MUC4	4.489	2.638	0	Overexpressed in FP versus FN
LHX3	4.219	-3.623	0	Overexpressed in FP versus FN
SALL3	6.385	-1.197	0	Overexpressed in FP versus FN
PDIA2	2.881	3.276	0	Overexpressed in FP versus FN
ATP6V0A4	2.845	0.353	0	Overexpressed in FP versus FN
GYPC	2.088	5.941	0	Overexpressed in FP versus FN
FUT3	3.043	1.102	0	Overexpressed in FP versus FN
PPDPF	1.197	6.961	0	Overexpressed in FP versus FN
LOC100506844	1.110	3.623	0	Overexpressed in FP versus FN
NUDT10	2.067	2.292	0	Overexpressed in FP versus FN
ANKRD65	2.052	4.619	0	Overexpressed in FP versus FN
N4BP3	1.080	6.452	0	Overexpressed in FP versus FN
TMCO4	1.575	2.947	0	Overexpressed in FP versus FN
PLIN5	2.379	1.937	0	Overexpressed in FP versus FN
CHD7	1.497	7.494	0	Overexpressed in FP versus FN
FAM189A2	2.505	2.127	0	Overexpressed in FP versus FN
OTP	5.915	0.140	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DAG1	1.142	8.212	0	Overexpressed in FP versus FN
SPINT2	2.337	4.270	0	Overexpressed in FP versus FN
LINC00319	2.085	1.100	0	Overexpressed in FP versus FN
C5orf38	2.853	-0.244	0	Overexpressed in FP versus FN
HID1	2.221	3.517	0	Overexpressed in FP versus FN
KLHL40	2.364	4.399	0	Overexpressed in FP versus FN
RNF165	1.113	5.453	0	Overexpressed in FP versus FN
TRIM45	1.348	6.406	0	Overexpressed in FP versus FN
LMX1B	2.654	3.707	0	Overexpressed in FP versus FN
CD151	1.139	7.717	0	Overexpressed in FP versus FN
POU4F2	4.942	-3.839	0	Overexpressed in FP versus FN
AKR1B15	2.606	0.291	0	Overexpressed in FP versus FN
DNASE1L2	1.691	1.642	0	Overexpressed in FP versus FN
DIO2	2.692	3.932	0	Overexpressed in FP versus FN
NACAD	1.199	4.118	0	Overexpressed in FP versus FN
QPRT	1.145	5.195	0	Overexpressed in FP versus FN
PDZD2	1.618	4.603	0	Overexpressed in FP versus FN
AMZ1	1.915	0.409	0	Overexpressed in FP versus FN
CD82	1.178	6.826	0	Overexpressed in FP versus FN
NUDT14	1.072	4.677	0	Overexpressed in FP versus FN
PTPRD	1.095	7.885	0	Overexpressed in FP versus FN
DTX3	1.400	6.872	0	Overexpressed in FP versus FN
ATP6V0E2-AS1	1.346	2.607	0	Overexpressed in FP versus FN
CDH15	1.250	8.404	0	Overexpressed in FP versus FN
MXD3	1.088	5.610	0	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PLIN4	2.267	2.840	0.000	Overexpressed in FP versus FN
SOX8	1.484	8.328	0.000	Overexpressed in FP versus FN
SCT	3.260	2.030	0.000	Overexpressed in FP versus FN
STAC3	2.098	7.850	0.000	Overexpressed in FP versus FN
TIAM2	1.128	3.054	0.000	Overexpressed in FP versus FN
BMP10	3.354	-4.370	0.000	Overexpressed in FP versus FN
KRT33B	4.398	-3.623	0.000	Overexpressed in FP versus FN
COLQ	1.217	4.654	0.000	Overexpressed in FP versus FN
GSG1L	2.891	3.239	0.000	Overexpressed in FP versus FN
SP8	5.030	-1.977	0.000	Overexpressed in FP versus FN
APBA1	1.611	3.305	0.000	Overexpressed in FP versus FN
AHRR	2.114	2.271	0.000	Overexpressed in FP versus FN
HR	2.455	4.745	0.000	Overexpressed in FP versus FN
LOC100128288	1.000	3.634	0.000	Overexpressed in FP versus FN
PLXDC1	1.038	5.906	0.000	Overexpressed in FP versus FN
CDH20	4.433	0.648	0.001	Overexpressed in FP versus FN
SLCO3A1	1.381	3.958	0.000	Overexpressed in FP versus FN
SPAG8	1.193	1.740	0.000	Overexpressed in FP versus FN
HMX3	4.075	-3.180	0.001	Overexpressed in FP versus FN
UNQ6494	2.830	-2.032	0.001	Overexpressed in FP versus FN
PLCXD3	4.612	-1.546	0.001	Overexpressed in FP versus FN
WNT7A	4.293	-2.617	0.001	Overexpressed in FP versus FN
GDF10	3.051	0.247	0.001	Overexpressed in FP versus FN
NGB	4.180	-2.095	0.001	Overexpressed in FP versus FN
PCP4	3.028	1.491	0.001	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM47	1.399	5.846	0.000	Overexpressed in FP versus FN
SOX3	4.160	-3.094	0.001	Overexpressed in FP versus FN
KCNJ12	2.283	2.396	0.001	Overexpressed in FP versus FN
CLCN5	1.512	8.623	0.000	Overexpressed in FP versus FN
CNPY1	3.598	-0.683	0.001	Overexpressed in FP versus FN
BLCAP	1.407	7.856	0.000	Overexpressed in FP versus FN
KCNC2	6.135	-2.503	0.001	Overexpressed in FP versus FN
SPIN3	1.358	4.883	0.000	Overexpressed in FP versus FN
FAM107A	2.650	3.424	0.000	Overexpressed in FP versus FN
LOC653513	2.129	0.304	0.001	Overexpressed in FP versus FN
FAM174B	1.031	5.279	0.000	Overexpressed in FP versus FN
BVES	1.179	6.255	0.000	Overexpressed in FP versus FN
GPR153	1.147	6.882	0.000	Overexpressed in FP versus FN
SOX5	2.439	0.854	0.001	Overexpressed in FP versus FN
KLF15	1.775	1.245	0.001	Overexpressed in FP versus FN
UPB1	2.126	-0.171	0.001	Overexpressed in FP versus FN
MYL4	2.546	7.123	0.000	Overexpressed in FP versus FN
SLC6A3	4.980	0.739	0.001	Overexpressed in FP versus FN
ZNF790-AS1	1.284	1.982	0.001	Overexpressed in FP versus FN
PTGES3L	1.873	2.193	0.001	Overexpressed in FP versus FN
SMTNL2	2.144	2.785	0.001	Overexpressed in FP versus FN
TP53AIP1	2.394	1.037	0.001	Overexpressed in FP versus FN
BTBD9	1.243	5.068	0.000	Overexpressed in FP versus FN
KCNMA1	1.328	4.705	0.000	Overexpressed in FP versus FN
PPFIA4	1.435	7.298	0.000	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CHADL	1.785	3.068	0.001	Overexpressed in FP versus FN
SLC38A1	1.143	8.253	0.001	Overexpressed in FP versus FN
TNNT2	2.421	8.267	0.001	Overexpressed in FP versus FN
PTK6	2.320	1.620	0.001	Overexpressed in FP versus FN
MAL	3.013	-0.048	0.001	Overexpressed in FP versus FN
INSM1	2.809	1.669	0.001	Overexpressed in FP versus FN
ZNF488	1.319	4.438	0.001	Overexpressed in FP versus FN
LOC645166	1.350	4.646	0.000	Overexpressed in FP versus FN
TMEM252	2.075	-0.931	0.001	Overexpressed in FP versus FN
HSPG2	1.285	8.881	0.001	Overexpressed in FP versus FN
TDRKH	1.151	3.133	0.001	Overexpressed in FP versus FN
CRYAB	2.311	5.525	0.000	Overexpressed in FP versus FN
SKP2	1.031	8.486	0.001	Overexpressed in FP versus FN
FAR2	1.623	4.231	0.001	Overexpressed in FP versus FN
TEX26-AS1	3.279	2.845	0.001	Overexpressed in FP versus FN
KIF17	1.518	2.902	0.001	Overexpressed in FP versus FN
ZNF681	1.952	2.746	0.001	Overexpressed in FP versus FN
NEUROD4	3.686	-2.421	0.001	Overexpressed in FP versus FN
AGPAT2	1.170	4.839	0.001	Overexpressed in FP versus FN
ZNF300P1	2.493	0.801	0.001	Overexpressed in FP versus FN
LOC100130370	1.906	1.087	0.001	Overexpressed in FP versus FN
PITRM1-AS1	1.261	2.782	0.001	Overexpressed in FP versus FN
FANK1	1.409	0.688	0.001	Overexpressed in FP versus FN
TRPM8	2.492	-0.750	0.001	Overexpressed in FP versus FN
GRM2	3.606	1.991	0.001	Overexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
H19	2.765	9.501	0.001	Overexpressed in FP versus FN
ANKRD6	1.372	3.986	0.001	Overexpressed in FP versus FN
MAMSTR	1.255	6.976	0.001	Overexpressed in FP versus FN
IQCG	1.429	3.705	0.001	Overexpressed in FP versus FN
MORN4	1.288	3.069	0.001	Overexpressed in FP versus FN
FGFR4	1.495	9.707	0.001	Overexpressed in FP versus FN
SCAMP5	1.633	4.467	0.001	Overexpressed in FP versus FN
DISP1	1.134	5.347	0.001	Overexpressed in FP versus FN
MPV17L	1.598	1.185	0.001	Overexpressed in FP versus FN
PTCHD4	2.238	0.370	0.001	Overexpressed in FP versus FN
WNT2	2.849	-0.928	0.001	Overexpressed in FP versus FN
MYO7B	2.517	5.988	0.001	Overexpressed in FP versus FN
TBC1D9	1.082	4.960	0.001	Overexpressed in FP versus FN
MTMR7	1.571	4.631	0.001	Overexpressed in FP versus FN
TFCP2L1	2.519	2.144	0.001	Overexpressed in FP versus FN
MRPL23-AS1	1.543	2.382	0.001	Overexpressed in FP versus FN
LOC100128675	5.165	-1.266	0.001	Overexpressed in FP versus FN
PRKAR2B	2.784	2.778	0.001	Overexpressed in FP versus FN
CLDND2	1.225	1.369	0.001	Overexpressed in FP versus FN
FBXL2	1.002	3.521	0.001	Overexpressed in FP versus FN
PCBP4	1.324	7.595	0.001	Overexpressed in FP versus FN
HLX	1.081	4.946	0.001	Overexpressed in FP versus FN
MAFA	2.439	2.691	0.001	Overexpressed in FP versus FN
SLC6A17	2.749	0.286	0.001	Overexpressed in FP versus FN
BVES-AS1	1.139	2.190	0.001	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PKM	1.129	9.935	0.001	Overexpressed in FP versus FN
MET	1.403	6.409	0.001	Overexpressed in FP versus FN
TMEM132B	4.160	2.308	0.001	Overexpressed in FP versus FN
FOXA2	4.230	-2.110	0.001	Overexpressed in FP versus FN
MMP24	1.152	3.446	0.001	Overexpressed in FP versus FN
SLC45A1	1.417	1.865	0.001	Overexpressed in FP versus FN
CDH22	2.377	-0.474	0.002	Overexpressed in FP versus FN
GRHL3	3.071	-1.625	0.002	Overexpressed in FP versus FN
CUX2	2.611	0.662	0.001	Overexpressed in FP versus FN
GOLGA2P5	1.337	2.814	0.001	Overexpressed in FP versus FN
RPRML	2.514	-0.244	0.002	Overexpressed in FP versus FN
LOC100130275	2.651	0.276	0.002	Overexpressed in FP versus FN
SNTG2	2.228	2.198	0.001	Overexpressed in FP versus FN
CHRD	1.314	6.270	0.001	Overexpressed in FP versus FN
SLC4A11	1.779	3.142	0.001	Overexpressed in FP versus FN
GATA2	1.497	3.332	0.001	Overexpressed in FP versus FN
CDH19	4.109	-1.958	0.002	Overexpressed in FP versus FN
CBLN1	2.857	1.108	0.002	Overexpressed in FP versus FN
ZNF718	1.583	1.028	0.002	Overexpressed in FP versus FN
HRH3	3.447	1.466	0.002	Overexpressed in FP versus FN
ACE	1.119	4.215	0.001	Overexpressed in FP versus FN
ALOX15	3.662	1.989	0.001	Overexpressed in FP versus FN
LOC253039	1.169	4.377	0.001	Overexpressed in FP versus FN
TSTD1	1.200	3.622	0.001	Overexpressed in FP versus FN
LPPR1	2.498	3.107	0.001	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TUBB4B	1.003	7.875	0.001	Overexpressed in FP versus FN
NEUROD1	4.859	-3.028	0.002	Overexpressed in FP versus FN
HMP19	3.273	-0.016	0.002	Overexpressed in FP versus FN
GRIN1	3.685	0.484	0.002	Overexpressed in FP versus FN
ZNF835	1.155	2.575	0.001	Overexpressed in FP versus FN
FAM155A	2.515	1.310	0.002	Overexpressed in FP versus FN
MACROD1	1.101	5.418	0.001	Overexpressed in FP versus FN
F12	2.028	0.593	0.002	Overexpressed in FP versus FN
DLX1	2.761	1.377	0.002	Overexpressed in FP versus FN
C1orf226	1.715	1.974	0.002	Overexpressed in FP versus FN
IZUMO4	1.074	1.666	0.002	Overexpressed in FP versus FN
TSPAN33	1.496	6.646	0.001	Overexpressed in FP versus FN
NLGN4X	1.662	2.614	0.002	Overexpressed in FP versus FN
FAM49A	1.119	4.737	0.001	Overexpressed in FP versus FN
FAM65C	1.926	2.908	0.002	Overexpressed in FP versus FN
FOXD3	3.084	0.906	0.002	Overexpressed in FP versus FN
MRPL23	1.069	5.805	0.001	Overexpressed in FP versus FN
TBX15	1.063	6.214	0.001	Overexpressed in FP versus FN
CDKL2	2.324	-0.700	0.002	Overexpressed in FP versus FN
LHFPL3	3.904	-2.392	0.002	Overexpressed in FP versus FN
RAB11FIP4	1.262	4.179	0.001	Overexpressed in FP versus FN
EEF1A2	3.816	2.512	0.002	Overexpressed in FP versus FN
GRIP1	2.608	3.468	0.002	Overexpressed in FP versus FN
PCDHB5	1.870	3.161	0.002	Overexpressed in FP versus FN
MAB21L1	2.498	3.137	0.002	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ZSCAN12P1	1.283	1.563	0.002	Overexpressed in FP versus FN
RPL23P8	1.405	6.880	0.001	Overexpressed in FP versus FN
NUDT7	1.547	1.088	0.002	Overexpressed in FP versus FN
SHD	1.124	7.562	0.001	Overexpressed in FP versus FN
DCC	4.036	0.043	0.002	Overexpressed in FP versus FN
RAPGEF4	1.826	3.091	0.002	Overexpressed in FP versus FN
HPN	2.839	-0.835	0.003	Overexpressed in FP versus FN
MYOG	1.822	9.029	0.002	Overexpressed in FP versus FN
HS3ST4	3.641	-2.401	0.003	Overexpressed in FP versus FN
MMP12	3.294	-2.403	0.003	Overexpressed in FP versus FN
TMEM63C	2.084	2.834	0.002	Overexpressed in FP versus FN
PALM2	1.276	4.681	0.001	Overexpressed in FP versus FN
CEND1	1.575	0.606	0.003	Overexpressed in FP versus FN
PLA2G4D	2.531	0.811	0.002	Overexpressed in FP versus FN
MYOZ2	2.997	3.884	0.002	Overexpressed in FP versus FN
ZNF214	1.725	1.122	0.002	Overexpressed in FP versus FN
GBX2	1.858	1.885	0.002	Overexpressed in FP versus FN
TPM2	1.373	9.713	0.002	Overexpressed in FP versus FN
MDGA1	1.515	4.516	0.001	Overexpressed in FP versus FN
HOMER2	1.209	3.208	0.002	Overexpressed in FP versus FN
POLN	1.174	1.279	0.003	Overexpressed in FP versus FN
SIRT2	1.257	7.796	0.002	Overexpressed in FP versus FN
DBNDD1	1.493	4.698	0.001	Overexpressed in FP versus FN
PAX1	3.865	-0.820	0.003	Overexpressed in FP versus FN
ZNF229	1.549	3.098	0.002	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RYR3	1.878	5.173	0.001	Overexpressed in FP versus FN
H2AFY2	1.213	6.157	0.001	Overexpressed in FP versus FN
TCP10L	1.442	0.908	0.003	Overexpressed in FP versus FN
GRIN2A	2.764	-1.473	0.003	Overexpressed in FP versus FN
SCAND3	3.001	0.936	0.003	Overexpressed in FP versus FN
SLC35F1	2.028	0.036	0.003	Overexpressed in FP versus FN
HSPA1A	1.810	4.825	0.002	Overexpressed in FP versus FN
CRIP2	1.183	7.371	0.002	Overexpressed in FP versus FN
CACNA2D2	1.903	5.104	0.002	Overexpressed in FP versus FN
PRTG	2.498	2.899	0.002	Overexpressed in FP versus FN
HGFAC	1.195	2.310	0.002	Overexpressed in FP versus FN
AFAP1L2	1.107	5.633	0.002	Overexpressed in FP versus FN
PPIP5K1	1.019	2.766	0.002	Overexpressed in FP versus FN
FOXD4L1	1.781	1.429	0.003	Overexpressed in FP versus FN
STC2	1.147	7.201	0.002	Overexpressed in FP versus FN
EPB41L4B	1.956	2.705	0.002	Overexpressed in FP versus FN
LOC100144602	3.221	-3.550	0.004	Overexpressed in FP versus FN
SSC5D	1.785	5.253	0.002	Overexpressed in FP versus FN
C9orf170	1.162	1.834	0.003	Overexpressed in FP versus FN
GPR37L1	2.579	-3.427	0.004	Overexpressed in FP versus FN
LRRRC61	1.704	3.545	0.002	Overexpressed in FP versus FN
OCIAD2	1.389	3.811	0.002	Overexpressed in FP versus FN
ALDOA	1.141	9.444	0.002	Overexpressed in FP versus FN
GPR83	1.963	0.407	0.003	Overexpressed in FP versus FN
UNCX	4.289	-3.053	0.004	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ANO1	1.136	4.425	0.002	Overexpressed in FP versus FN
CAMSAP3	2.498	0.166	0.004	Overexpressed in FP versus FN
C1QTNF1	1.215	4.166	0.002	Overexpressed in FP versus FN
NRAP	3.172	-1.391	0.004	Overexpressed in FP versus FN
PCDHB15	1.077	2.388	0.003	Overexpressed in FP versus FN
ZNF804A	2.143	1.756	0.003	Overexpressed in FP versus FN
TCF15	1.873	1.938	0.003	Overexpressed in FP versus FN
PAIP2B	1.124	2.759	0.003	Overexpressed in FP versus FN
MPP7	2.279	1.224	0.004	Overexpressed in FP versus FN
ABCC3	2.218	3.276	0.003	Overexpressed in FP versus FN
ELAVL2	1.892	3.927	0.002	Overexpressed in FP versus FN
SRRM4	4.519	1.814	0.004	Overexpressed in FP versus FN
C1orf105	1.878	4.194	0.002	Overexpressed in FP versus FN
LOC100507433	1.260	2.819	0.003	Overexpressed in FP versus FN
RHBDL1	1.322	2.651	0.003	Overexpressed in FP versus FN
ZNF132	1.023	2.478	0.003	Overexpressed in FP versus FN
ADIRF	1.257	2.418	0.003	Overexpressed in FP versus FN
KCNH3	1.907	2.983	0.003	Overexpressed in FP versus FN
GNG4	2.687	3.819	0.003	Overexpressed in FP versus FN
PFN1	1.202	9.591	0.003	Overexpressed in FP versus FN
AKR7A3	1.579	1.027	0.004	Overexpressed in FP versus FN
ZDHHC22	1.884	3.312	0.003	Overexpressed in FP versus FN
RPL7A	1.186	8.944	0.003	Overexpressed in FP versus FN
MPPED2	1.619	5.016	0.002	Overexpressed in FP versus FN
NACA	1.029	10.026	0.003	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CDH1	2.522	1.558	0.004	Overexpressed in FP versus FN
S1PR1	1.238	4.450	0.002	Overexpressed in FP versus FN
FAM163A	2.610	1.076	0.004	Overexpressed in FP versus FN
STXBP6	1.821	2.266	0.004	Overexpressed in FP versus FN
HES2	2.430	-1.068	0.005	Overexpressed in FP versus FN
RPL34	1.042	7.518	0.003	Overexpressed in FP versus FN
CATSPERG	1.533	1.555	0.004	Overexpressed in FP versus FN
LRRC14B	2.501	0.141	0.005	Overexpressed in FP versus FN
EPHA5	3.221	-1.422	0.005	Overexpressed in FP versus FN
CTNND2	2.888	1.727	0.004	Overexpressed in FP versus FN
LRRC20	1.002	4.862	0.003	Overexpressed in FP versus FN
C14orf64	1.170	1.353	0.005	Overexpressed in FP versus FN
VTCN1	1.765	-0.276	0.006	Overexpressed in FP versus FN
UNC80	2.052	3.465	0.003	Overexpressed in FP versus FN
ANK2	1.501	6.311	0.003	Overexpressed in FP versus FN
NRG3	2.516	-1.084	0.006	Overexpressed in FP versus FN
LOC100505875	2.281	0.215	0.006	Overexpressed in FP versus FN
LDLRAD2	1.252	1.589	0.005	Overexpressed in FP versus FN
KIAA0895	1.742	1.778	0.005	Overexpressed in FP versus FN
CHGA	3.550	0.287	0.006	Overexpressed in FP versus FN
CRIP1	1.129	3.982	0.003	Overexpressed in FP versus FN
GABBR2	2.253	-0.949	0.006	Overexpressed in FP versus FN
MYBPHL	2.067	2.317	0.005	Overexpressed in FP versus FN
ACADL	2.194	1.515	0.005	Overexpressed in FP versus FN
RMST	3.589	-3.397	0.007	Overexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
HSF4	1.124	4.900	0.003	Overexpressed in FP versus FN
BCMO1	1.775	-0.118	0.006	Overexpressed in FP versus FN
C20orf166	2.082	2.301	0.005	Overexpressed in FP versus FN
WNT6	2.117	1.214	0.006	Overexpressed in FP versus FN
LINC00461	3.399	0.788	0.006	Overexpressed in FP versus FN
RPL35	1.255	8.986	0.004	Overexpressed in FP versus FN
SLC24A4	1.896	2.797	0.005	Overexpressed in FP versus FN
GLB1L3	2.304	-1.992	0.007	Overexpressed in FP versus FN
PCDHGA11	1.353	0.291	0.007	Overexpressed in FP versus FN
FBXO16	1.226	1.660	0.006	Overexpressed in FP versus FN
MTUS2	1.607	4.249	0.004	Overexpressed in FP versus FN
PFKP	1.151	5.109	0.003	Overexpressed in FP versus FN
NEURL	1.560	4.050	0.004	Overexpressed in FP versus FN
TST	1.048	3.714	0.004	Overexpressed in FP versus FN
C2orf71	2.713	-1.175	0.008	Overexpressed in FP versus FN
CEBPA	1.377	4.194	0.004	Overexpressed in FP versus FN
TOM1L1	1.636	2.898	0.005	Overexpressed in FP versus FN
DCX	1.914	6.196	0.004	Overexpressed in FP versus FN
RTN4RL1	1.322	1.400	0.006	Overexpressed in FP versus FN
ZNF502	1.052	3.683	0.004	Overexpressed in FP versus FN
TMPRSS2	2.819	-3.179	0.009	Overexpressed in FP versus FN
LOC100130476	1.609	0.674	0.007	Overexpressed in FP versus FN
EVA1C	1.167	1.282	0.007	Overexpressed in FP versus FN
SULF1	1.087	7.134	0.004	Overexpressed in FP versus FN
RPL29	1.293	9.821	0.005	Overexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ST20	1.405	1.669	0.007	Overexpressed in FP versus FN
PNPLA7	1.202	3.558	0.005	Overexpressed in FP versus FN
TH	5.980	0.150	0.008	Overexpressed in FP versus FN
LDB3	2.095	4.756	0.004	Overexpressed in FP versus FN
PPP1R14A	1.627	2.602	0.006	Overexpressed in FP versus FN
RPS6	1.335	11.079	0.006	Overexpressed in FP versus FN
PEBP1	1.100	7.771	0.004	Overexpressed in FP versus FN
PLA2G5	2.031	-0.570	0.009	Overexpressed in FP versus FN
SPATA18	1.663	2.182	0.006	Overexpressed in FP versus FN
LINC00482	1.657	1.920	0.007	Overexpressed in FP versus FN
NGEF	2.252	1.919	0.007	Overexpressed in FP versus FN
EYA2	1.688	6.092	0.004	Overexpressed in FP versus FN
CHRND	1.216	8.116	0.005	Overexpressed in FP versus FN
ZNF560	2.813	-0.262	0.009	Overexpressed in FP versus FN
ADORA2A-AS1	1.062	1.268	0.008	Overexpressed in FP versus FN
C8orf22	2.986	-3.797	0.010	Overexpressed in FP versus FN
ADCYAP1	4.083	0.168	0.009	Overexpressed in FP versus FN
RPL13	1.079	10.730	0.006	Overexpressed in FP versus FN
CIDEA	2.605	-3.072	0.010	Overexpressed in FP versus FN
SPSB4	1.084	5.802	0.004	Overexpressed in FP versus FN
CNIH2	1.044	3.757	0.005	Overexpressed in FP versus FN
TAGLN3	2.234	4.401	0.005	Overexpressed in FP versus FN
FAM65B	1.134	5.811	0.004	Overexpressed in FP versus FN
EPAS1	1.102	6.462	0.004	Overexpressed in FP versus FN
FAM110A	1.162	5.044	0.004	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CERCAM	1.031	6.380	0.004	Overexpressed in FP versus FN
L1CAM	2.725	3.371	0.006	Overexpressed in FP versus FN
LINGO1	1.237	4.114	0.005	Overexpressed in FP versus FN
PCDHGA6	1.223	1.299	0.008	Overexpressed in FP versus FN
NEBL	2.067	2.575	0.007	Overexpressed in FP versus FN
CD163L1	1.550	2.384	0.007	Overexpressed in FP versus FN
ZNF626	1.248	3.368	0.006	Overexpressed in FP versus FN
BTBD17	2.509	-0.634	0.010	Overexpressed in FP versus FN
PDE2A	1.367	4.325	0.005	Overexpressed in FP versus FN
CPLX2	3.091	-1.580	0.011	Overexpressed in FP versus FN
NMU	1.989	0.966	0.009	Overexpressed in FP versus FN
CAPN3	1.129	4.368	0.005	Overexpressed in FP versus FN
ATP2C2	1.382	1.667	0.008	Overexpressed in FP versus FN
MYL9	1.203	6.696	0.005	Overexpressed in FP versus FN
GCA	1.522	3.216	0.006	Overexpressed in FP versus FN
FBN3	1.613	7.137	0.005	Overexpressed in FP versus FN
MYOD1	2.460	7.336	0.006	Overexpressed in FP versus FN
ADCY2	2.406	2.185	0.008	Overexpressed in FP versus FN
HRASLS	2.077	1.653	0.009	Overexpressed in FP versus FN
DBX1	3.776	0.367	0.011	Overexpressed in FP versus FN
SST	2.969	-4.389	0.013	Overexpressed in FP versus FN
HSPB7	2.482	2.335	0.008	Overexpressed in FP versus FN
CEACAM16	1.809	0.552	0.011	Overexpressed in FP versus FN
LCN10	1.907	-0.371	0.011	Overexpressed in FP versus FN
CAPN6	2.125	8.977	0.007	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
MN1	1.131	6.152	0.005	Overexpressed in FP versus FN
ST6GAL2	1.242	5.091	0.005	Overexpressed in FP versus FN
LOC100130776	1.107	2.050	0.009	Overexpressed in FP versus FN
ERMN	2.010	0.276	0.011	Overexpressed in FP versus FN
IQCA1	1.830	2.318	0.009	Overexpressed in FP versus FN
ZNF662	1.445	4.488	0.006	Overexpressed in FP versus FN
GP6	3.521	-0.689	0.012	Overexpressed in FP versus FN
IGSF22	1.714	1.825	0.009	Overexpressed in FP versus FN
NIPA1	1.218	4.181	0.006	Overexpressed in FP versus FN
ZNF772	1.017	4.179	0.006	Overexpressed in FP versus FN
CACNA1B	2.199	2.258	0.009	Overexpressed in FP versus FN
SEZ6L	2.381	2.761	0.008	Overexpressed in FP versus FN
SCG3	3.524	-1.356	0.013	Overexpressed in FP versus FN
TOB2P1	1.024	1.887	0.010	Overexpressed in FP versus FN
C21orf88	1.550	1.593	0.010	Overexpressed in FP versus FN
ATRNL1	2.582	0.861	0.011	Overexpressed in FP versus FN
TMOD1	1.943	1.987	0.010	Overexpressed in FP versus FN
ZIK1	1.082	3.608	0.007	Overexpressed in FP versus FN
SPATA31C2	1.681	-0.405	0.013	Overexpressed in FP versus FN
TMEM121	1.099	2.454	0.009	Overexpressed in FP versus FN
C20orf85	2.027	-4.053	0.015	Overexpressed in FP versus FN
PPARGC1A	2.031	3.092	0.008	Overexpressed in FP versus FN
AR	1.736	3.503	0.008	Overexpressed in FP versus FN
FAAH2	1.497	0.909	0.012	Overexpressed in FP versus FN
DRAXIN	1.665	0.941	0.012	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RORC	1.786	2.238	0.010	Overexpressed in FP versus FN
PLEKHA4	1.263	5.806	0.006	Overexpressed in FP versus FN
PCDHB8	1.383	0.588	0.013	Overexpressed in FP versus FN
MGC12916	1.469	2.042	0.011	Overexpressed in FP versus FN
EHHADH	1.034	2.808	0.009	Overexpressed in FP versus FN
PCSK9	1.706	0.975	0.013	Overexpressed in FP versus FN
TMEM72-AS1	1.213	0.321	0.014	Overexpressed in FP versus FN
LINC00514	1.779	0.178	0.014	Overexpressed in FP versus FN
TSPAN18	1.019	5.604	0.006	Overexpressed in FP versus FN
PKIB	1.987	2.066	0.011	Overexpressed in FP versus FN
NOS1AP	1.603	0.277	0.014	Overexpressed in FP versus FN
HERC2P2	1.020	5.534	0.006	Overexpressed in FP versus FN
OLFML2A	1.099	7.246	0.007	Overexpressed in FP versus FN
SSTR1	2.904	0.353	0.014	Overexpressed in FP versus FN
SYNGR3	1.536	0.247	0.014	Overexpressed in FP versus FN
HIP1R	1.268	6.381	0.007	Overexpressed in FP versus FN
MAGI2	1.042	3.057	0.009	Overexpressed in FP versus FN
PLIN1	1.904	-0.703	0.016	Overexpressed in FP versus FN
LOC100505695	1.524	1.639	0.013	Overexpressed in FP versus FN
ZNF793	1.116	4.320	0.008	Overexpressed in FP versus FN
DRD1	3.041	-2.577	0.018	Overexpressed in FP versus FN
ZNF300	1.637	4.424	0.008	Overexpressed in FP versus FN
SKOR1	1.140	1.377	0.014	Overexpressed in FP versus FN
STMN2	4.244	0.015	0.016	Overexpressed in FP versus FN
CSPG5	1.240	1.887	0.013	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SLC22A3	1.918	3.258	0.010	Overexpressed in FP versus FN
RPL23	1.118	8.935	0.010	Overexpressed in FP versus FN
VIM	1.073	11.087	0.013	Overexpressed in FP versus FN
TNFAIP3	1.037	5.107	0.008	Overexpressed in FP versus FN
GRIA3	2.010	-0.022	0.017	Overexpressed in FP versus FN
FUT6	2.248	-2.041	0.019	Overexpressed in FP versus FN
ACTL6B	2.914	-2.582	0.020	Overexpressed in FP versus FN
STX11	1.120	2.629	0.012	Overexpressed in FP versus FN
SFMBT2	1.116	4.595	0.008	Overexpressed in FP versus FN
WBSCR17	2.222	3.357	0.011	Overexpressed in FP versus FN
MYLK3	1.587	1.277	0.016	Overexpressed in FP versus FN
ZNF717	1.473	0.345	0.018	Overexpressed in FP versus FN
NPNT	1.367	6.033	0.008	Overexpressed in FP versus FN
UBE2QL1	1.670	0.030	0.018	Overexpressed in FP versus FN
MIR7-3HG	2.855	-3.540	0.022	Overexpressed in FP versus FN
ESPNP	1.402	0.793	0.017	Overexpressed in FP versus FN
AKR7L	1.094	1.530	0.016	Overexpressed in FP versus FN
PDZK1	1.352	-0.055	0.019	Overexpressed in FP versus FN
C6orf164	1.010	0.947	0.017	Overexpressed in FP versus FN
HCN1	2.356	-0.980	0.020	Overexpressed in FP versus FN
KBTBD12	2.134	0.439	0.018	Overexpressed in FP versus FN
IL21R	1.627	2.624	0.013	Overexpressed in FP versus FN
KRT31	2.653	-1.493	0.021	Overexpressed in FP versus FN
TAGLN	1.129	7.270	0.010	Overexpressed in FP versus FN
RPL26	1.216	10.018	0.013	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SVOP	2.606	-2.107	0.023	Overexpressed in FP versus FN
DHCR24	1.149	5.215	0.009	Overexpressed in FP versus FN
SLC27A6	2.813	0.610	0.019	Overexpressed in FP versus FN
ZNF91	1.011	4.318	0.010	Overexpressed in FP versus FN
JPH3	1.591	0.896	0.019	Overexpressed in FP versus FN
HS3ST3B1	1.602	1.587	0.017	Overexpressed in FP versus FN
SPATA22	2.081	-0.707	0.022	Overexpressed in FP versus FN
LOC283070	1.018	3.551	0.012	Overexpressed in FP versus FN
SCARA5	2.000	3.422	0.013	Overexpressed in FP versus FN
CPNE9	1.474	-0.987	0.023	Overexpressed in FP versus FN
BEX1	1.866	2.570	0.015	Overexpressed in FP versus FN
RYR1	1.169	9.635	0.014	Overexpressed in FP versus FN
NSUN7	1.485	1.086	0.020	Overexpressed in FP versus FN
UNQ6975	1.371	2.350	0.016	Overexpressed in FP versus FN
PCDHGB5	1.420	-0.162	0.023	Overexpressed in FP versus FN
CHRNE	1.290	1.352	0.019	Overexpressed in FP versus FN
RBP1	1.281	6.876	0.011	Overexpressed in FP versus FN
ART3	1.700	1.158	0.020	Overexpressed in FP versus FN
NTRK3	1.959	3.441	0.014	Overexpressed in FP versus FN
AASS	1.260	5.669	0.010	Overexpressed in FP versus FN
EPHA7	1.958	4.238	0.012	Overexpressed in FP versus FN
AQP3	1.174	3.646	0.013	Overexpressed in FP versus FN
LDHD	1.298	0.489	0.023	Overexpressed in FP versus FN
SP5	3.173	0.905	0.022	Overexpressed in FP versus FN
CSMD1	1.778	4.157	0.013	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
HYDIN	1.768	1.686	0.020	Overexpressed in FP versus FN
SAMD11	1.478	2.982	0.016	Overexpressed in FP versus FN
MB	2.008	2.321	0.018	Overexpressed in FP versus FN
P2RX1	1.504	2.106	0.019	Overexpressed in FP versus FN
EPHB1	1.520	3.509	0.015	Overexpressed in FP versus FN
MASP1	2.191	-1.180	0.028	Overexpressed in FP versus FN
PELI2	1.099	4.097	0.013	Overexpressed in FP versus FN
DEGS2	1.518	0.377	0.025	Overexpressed in FP versus FN
KCNG3	1.845	-0.324	0.026	Overexpressed in FP versus FN
LHFPL4	2.241	-1.537	0.029	Overexpressed in FP versus FN
P2RY2	1.588	-0.659	0.028	Overexpressed in FP versus FN
MUC2	2.916	-1.301	0.029	Overexpressed in FP versus FN
LTBP2	1.054	6.685	0.012	Overexpressed in FP versus FN
FIGN	1.837	0.390	0.026	Overexpressed in FP versus FN
FNDC5	1.079	8.832	0.016	Overexpressed in FP versus FN
TRPC1	1.174	2.840	0.018	Overexpressed in FP versus FN
SLC22A31	1.051	2.037	0.022	Overexpressed in FP versus FN
PLN	1.143	0.898	0.026	Overexpressed in FP versus FN
ISL1	2.336	2.353	0.021	Overexpressed in FP versus FN
TIGD3	1.162	1.674	0.023	Overexpressed in FP versus FN
NMRK2	2.233	0.606	0.027	Overexpressed in FP versus FN
ANKRD2	2.054	1.463	0.024	Overexpressed in FP versus FN
CRHR1	2.077	-2.290	0.033	Overexpressed in FP versus FN
GRIK2	2.010	-0.321	0.030	Overexpressed in FP versus FN
CDKN1C	1.432	5.795	0.013	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PRR7	1.065	2.213	0.022	Overexpressed in FP versus FN
P2RX5	1.500	1.358	0.025	Overexpressed in FP versus FN
PIP5K1B	1.229	0.437	0.028	Overexpressed in FP versus FN
DPF3	1.399	-0.186	0.030	Overexpressed in FP versus FN
IRAK3	1.493	4.944	0.013	Overexpressed in FP versus FN
LOC400680	1.756	0.362	0.029	Overexpressed in FP versus FN
HYLS1	1.176	2.267	0.022	Overexpressed in FP versus FN
C14orf39	1.378	3.234	0.018	Overexpressed in FP versus FN
CKMT2	1.562	2.611	0.021	Overexpressed in FP versus FN
TTN	1.641	8.504	0.018	Overexpressed in FP versus FN
S100B	2.240	0.944	0.028	Overexpressed in FP versus FN
PKD2L1	1.623	-0.137	0.032	Overexpressed in FP versus FN
CELF4	1.138	1.675	0.025	Overexpressed in FP versus FN
MCF2L2	1.369	0.171	0.031	Overexpressed in FP versus FN
DSCAM	2.293	1.998	0.024	Overexpressed in FP versus FN
RPL27	1.055	9.135	0.019	Overexpressed in FP versus FN
MME	2.332	2.708	0.022	Overexpressed in FP versus FN
PADI2	1.319	3.282	0.019	Overexpressed in FP versus FN
PRKAG3	1.911	1.446	0.027	Overexpressed in FP versus FN
CLDN19	1.861	-0.821	0.034	Overexpressed in FP versus FN
SLC6A11	2.395	-3.367	0.039	Overexpressed in FP versus FN
ZNF876P	1.265	0.879	0.029	Overexpressed in FP versus FN
FAM19A5	1.225	3.895	0.018	Overexpressed in FP versus FN
HCG27	1.429	-0.053	0.034	Overexpressed in FP versus FN
HHATL	1.407	1.255	0.029	Overexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PPP1R17	2.558	-3.801	0.043	Overexpressed in FP versus FN
SATB2	1.464	3.847	0.019	Overexpressed in FP versus FN
LRRC4	1.116	3.138	0.022	Overexpressed in FP versus FN
SPOCK3	3.149	1.550	0.030	Overexpressed in FP versus FN
LOC642366	2.140	2.434	0.026	Overexpressed in FP versus FN
ANKRD29	1.554	1.436	0.031	Overexpressed in FP versus FN
FGF12	1.193	0.810	0.033	Overexpressed in FP versus FN
MANEAL	1.375	2.025	0.028	Overexpressed in FP versus FN
MYO16	2.147	2.756	0.025	Overexpressed in FP versus FN
DMBT1	2.357	-2.338	0.045	Overexpressed in FP versus FN
RRAD	1.350	1.120	0.033	Overexpressed in FP versus FN
VAT1L	2.069	-0.334	0.040	Overexpressed in FP versus FN
IRX4	2.159	-1.144	0.044	Overexpressed in FP versus FN
RBM20	1.055	4.992	0.018	Overexpressed in FP versus FN
CSRP3	2.701	1.404	0.033	Overexpressed in FP versus FN
OCLN	1.453	-0.145	0.041	Overexpressed in FP versus FN
FSTL4	1.484	2.091	0.031	Overexpressed in FP versus FN
ADAMTS16	1.468	1.803	0.033	Overexpressed in FP versus FN
KCNC1	1.438	3.127	0.026	Overexpressed in FP versus FN
PAK3	1.116	2.255	0.031	Overexpressed in FP versus FN
LOC441666	1.873	2.013	0.033	Overexpressed in FP versus FN
MYT1L	1.297	1.258	0.037	Overexpressed in FP versus FN
TENM2	1.979	1.565	0.036	Overexpressed in FP versus FN
DDIT3	1.068	4.738	0.020	Overexpressed in FP versus FN
TOX2	1.141	3.020	0.028	Overexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ASPA	1.332	0.330	0.045	Overexpressed in FP versus FN
COBLL1	1.381	3.154	0.029	Overexpressed in FP versus FN
TRIM36	1.365	4.143	0.024	Overexpressed in FP versus FN
FBXL16	1.394	1.869	0.038	Overexpressed in FP versus FN
GPR17	1.146	0.414	0.047	Overexpressed in FP versus FN
ACTC1	1.356	10.162	0.033	Overexpressed in FP versus FN
NDUFS5	1.046	7.290	0.023	Overexpressed in FP versus FN
CADM2	1.116	5.388	0.021	Overexpressed in FP versus FN
SBK2	1.527	2.835	0.033	Overexpressed in FP versus FN
WHAMMP2	1.178	0.523	0.049	Overexpressed in FP versus FN
MYT1	2.238	0.494	0.049	Overexpressed in FP versus FN
C1QTNF3	1.189	6.232	0.022	Overexpressed in FP versus FN
WNT10A	1.402	2.176	0.038	Overexpressed in FP versus FN
MKRN3	1.739	2.366	0.038	Overexpressed in FP versus FN
HSPA1B	1.169	5.548	0.023	Overexpressed in FP versus FN
CLSTN2	1.135	4.137	0.028	Overexpressed in FP versus FN
MSI1	1.121	4.051	0.028	Overexpressed in FP versus FN
CACNG6	1.966	3.133	0.035	Overexpressed in FP versus FN
EPS8L2	1.029	3.205	0.034	Overexpressed in FP versus FN
LOC100505738	1.335	2.623	0.039	Overexpressed in FP versus FN
OXER1	1.680	4.506	0.028	Overexpressed in FP versus FN
PPP1R3C	1.142	3.655	0.032	Overexpressed in FP versus FN
NLGN1	1.454	2.049	0.045	Overexpressed in FP versus FN
HRH1	1.120	2.590	0.041	Overexpressed in FP versus FN
KIF5C	1.545	2.280	0.044	Overexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
LRFN5	1.474	3.527	0.035	Overexpressed in FP versus FN
TFAP2A	1.730	3.803	0.034	Overexpressed in FP versus FN
KY	2.200	2.829	0.041	Overexpressed in FP versus FN
ABCA7	1.031	4.844	0.028	Overexpressed in FP versus FN
CXCR7	1.203	5.425	0.028	Overexpressed in FP versus FN
SECTM1	1.036	2.857	0.043	Overexpressed in FP versus FN
APOBEC2	1.619	3.515	0.039	Overexpressed in FP versus FN
MEG3	1.850	9.839	0.047	Overexpressed in FP versus FN
LOC100505806	1.244	3.168	0.048	Overexpressed in FP versus FN
CYP27C1	1.032	3.539	0.044	Overexpressed in FP versus FN
ZNF418	1.001	3.474	0.047	Overexpressed in FP versus FN
KREMEN2	1.040	6.081	0.035	Overexpressed in FP versus FN
ENPP6	1.654	4.073	0.044	Overexpressed in FP versus FN
RBMS3	-2.729	4.587	0.000	Underexpressed in FP versus FN
FZD4	-2.294	5.996	0.000	Underexpressed in FP versus FN
PSD3	-2.673	5.417	0.000	Underexpressed in FP versus FN
KIF16B	-3.213	3.596	0.000	Underexpressed in FP versus FN
PLK2	-2.593	5.957	0.000	Underexpressed in FP versus FN
GRTP1	-3.619	0.940	0.000	Underexpressed in FP versus FN
ZFHX4	-4.236	4.676	0.000	Underexpressed in FP versus FN
NBN	-1.091	5.711	0.000	Underexpressed in FP versus FN
EBF3	-2.227	6.175	0.000	Underexpressed in FP versus FN
KAZN	-3.436	4.262	0.000	Underexpressed in FP versus FN
SEMA3A	-4.660	3.821	0.000	Underexpressed in FP versus FN
EMILIN1	-2.505	7.106	0.000	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PPAPDC1B	-1.336	5.611	0	Underexpressed in FP versus FN
LOC344595	-2.251	4.292	0	Underexpressed in FP versus FN
TRIB2	-2.172	7.045	0	Underexpressed in FP versus FN
TRERF1	-1.930	4.167	0	Underexpressed in FP versus FN
ADAMTS9	-3.015	4.936	0	Underexpressed in FP versus FN
ZFP36L2	-1.593	7.124	0	Underexpressed in FP versus FN
LPHN1	-2.448	5.120	0	Underexpressed in FP versus FN
GPX8	-2.116	5.479	0	Underexpressed in FP versus FN
FBN2	-4.802	5.141	0	Underexpressed in FP versus FN
SLC1A3	-3.468	4.083	0	Underexpressed in FP versus FN
LIMA1	-1.469	6.726	0	Underexpressed in FP versus FN
MAP2K6	-2.283	1.698	0	Underexpressed in FP versus FN
SOBP	-2.380	4.040	0	Underexpressed in FP versus FN
ADA	-2.072	3.770	0	Underexpressed in FP versus FN
SLC25A32	-1.028	4.895	0	Underexpressed in FP versus FN
GLIS2	-1.455	5.481	0	Underexpressed in FP versus FN
STK33	-3.048	2.407	0	Underexpressed in FP versus FN
EXT1	-1.228	5.622	0	Underexpressed in FP versus FN
CLMP	-4.005	2.639	0	Underexpressed in FP versus FN
DOCK11	-1.998	4.365	0	Underexpressed in FP versus FN
GXYLT1	-1.423	5.281	0	Underexpressed in FP versus FN
RRBP1	-1.640	7.277	0	Underexpressed in FP versus FN
DLC1	-1.945	5.857	0	Underexpressed in FP versus FN
PCDH18	-2.514	5.052	0	Underexpressed in FP versus FN
SYNGAP1	-1.154	5.203	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SLC39A14	-1.416	5.446	0	Underexpressed in FP versus FN
RGL1	-2.025	4.606	0	Underexpressed in FP versus FN
FBLN1	-2.095	7.203	0	Underexpressed in FP versus FN
OAF	-2.551	5.960	0	Underexpressed in FP versus FN
FZD7	-2.002	5.109	0	Underexpressed in FP versus FN
CREB5	-3.153	4.686	0	Underexpressed in FP versus FN
PDP1	-1.079	4.855	0	Underexpressed in FP versus FN
SOX6	-2.791	4.281	0	Underexpressed in FP versus FN
GPR124	-1.887	6.774	0	Underexpressed in FP versus FN
ASAP1	-1.094	6.772	0	Underexpressed in FP versus FN
COL27A1	-2.529	5.002	0	Underexpressed in FP versus FN
SLC39A11	-1.519	3.222	0	Underexpressed in FP versus FN
DOK1	-1.458	4.000	0	Underexpressed in FP versus FN
LTBP4	-2.855	7.066	0	Underexpressed in FP versus FN
AP5B1	-1.640	3.471	0	Underexpressed in FP versus FN
TIPARP	-1.613	4.324	0	Underexpressed in FP versus FN
TCF4	-1.212	7.798	0	Underexpressed in FP versus FN
ENTPD4	-1.173	6.635	0	Underexpressed in FP versus FN
CDC42EP4	-2.018	4.307	0	Underexpressed in FP versus FN
ST6GALNAC3	-2.455	2.111	0	Underexpressed in FP versus FN
C17orf67	-2.261	1.769	0	Underexpressed in FP versus FN
FAM110B	-1.629	5.640	0	Underexpressed in FP versus FN
FANCF	-1.352	3.864	0	Underexpressed in FP versus FN
RNF144A	-1.333	5.541	0	Underexpressed in FP versus FN
MMP2	-2.583	7.265	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FNDC3B	-1.331	6.123	0	Underexpressed in FP versus FN
ZFHx4-AS1	-4.552	0.013	0	Underexpressed in FP versus FN
TMTC2	-2.510	4.310	0	Underexpressed in FP versus FN
SCN7A	-5.456	3.413	0	Underexpressed in FP versus FN
LRRC1	-1.627	3.525	0	Underexpressed in FP versus FN
ITM2A	-4.037	5.277	0	Underexpressed in FP versus FN
MOB3B	-2.004	2.994	0	Underexpressed in FP versus FN
LAMA2	-2.353	5.839	0	Underexpressed in FP versus FN
LBX2	-3.517	-0.364	0	Underexpressed in FP versus FN
SCML2	-2.251	3.362	0	Underexpressed in FP versus FN
HSPA12B	-2.664	4.066	0	Underexpressed in FP versus FN
PAX7	-4.293	5.661	0	Underexpressed in FP versus FN
SVIP	-2.162	2.073	0	Underexpressed in FP versus FN
FMNL3	-1.069	6.504	0	Underexpressed in FP versus FN
HOXC5	-2.391	1.452	0	Underexpressed in FP versus FN
STK39	-1.008	4.683	0	Underexpressed in FP versus FN
GRASP	-1.414	3.789	0	Underexpressed in FP versus FN
LPAR4	-3.786	2.281	0	Underexpressed in FP versus FN
LDOC1	-2.360	4.182	0	Underexpressed in FP versus FN
EDA	-2.469	4.138	0	Underexpressed in FP versus FN
KAZALD1	-3.016	3.712	0	Underexpressed in FP versus FN
COL19A1	-4.589	3.266	0	Underexpressed in FP versus FN
SPRED2	-1.422	6.097	0	Underexpressed in FP versus FN
TMEM155	-4.048	-0.273	0	Underexpressed in FP versus FN
LOXL3	-1.747	4.411	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
AR SJ	-2.956	2.255	0	Underexpressed in FP versus FN
KIAA1598	-2.481	3.936	0	Underexpressed in FP versus FN
GALNT2	-1.285	7.101	0	Underexpressed in FP versus FN
TSHZ1	-1.181	5.930	0	Underexpressed in FP versus FN
SH3PXD2B	-1.198	6.031	0	Underexpressed in FP versus FN
FBXO17	-2.048	4.875	0	Underexpressed in FP versus FN
TSKU	-1.583	5.135	0	Underexpressed in FP versus FN
MAPK12	-1.801	4.162	0	Underexpressed in FP versus FN
MFAP2	-2.225	5.327	0	Underexpressed in FP versus FN
C1orf21	-1.625	5.009	0	Underexpressed in FP versus FN
FBXL21	-7.783	-1.964	0	Underexpressed in FP versus FN
WWC3	-1.064	5.482	0	Underexpressed in FP versus FN
KCTD12	-2.025	6.936	0	Underexpressed in FP versus FN
PGRMC1	-1.126	6.145	0	Underexpressed in FP versus FN
PHLDA1	-1.927	6.467	0	Underexpressed in FP versus FN
ASAP3	-1.782	5.079	0	Underexpressed in FP versus FN
SEMA3B	-1.744	5.824	0	Underexpressed in FP versus FN
LINC00085	-2.043	3.978	0	Underexpressed in FP versus FN
FRMD6	-1.550	5.228	0	Underexpressed in FP versus FN
LRRCC1	-1.336	4.261	0	Underexpressed in FP versus FN
GALNT10	-1.809	5.646	0	Underexpressed in FP versus FN
LHX6	-3.170	2.128	0	Underexpressed in FP versus FN
KAT6A	-1.006	6.611	0	Underexpressed in FP versus FN
RAMP2-AS1	-2.824	1.761	0	Underexpressed in FP versus FN
LOC100302640	-2.485	0.412	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
LHFPL2	-1.074	6.026	0	Underexpressed in FP versus FN
LRP5L	-1.201	4.077	0	Underexpressed in FP versus FN
PRICKLE1	-2.198	4.476	0	Underexpressed in FP versus FN
TBX3	-2.168	4.761	0	Underexpressed in FP versus FN
IL13RA1	-1.564	5.067	0	Underexpressed in FP versus FN
SIPA1L2	-1.734	4.503	0	Underexpressed in FP versus FN
PLEKHG2	-1.110	6.839	0	Underexpressed in FP versus FN
CCDC54	-4.277	-0.685	0	Underexpressed in FP versus FN
MUSK	-2.683	2.082	0	Underexpressed in FP versus FN
LPAR1	-2.660	4.171	0	Underexpressed in FP versus FN
ALPK1	-1.664	3.131	0	Underexpressed in FP versus FN
ARHGAP28	-1.975	4.780	0	Underexpressed in FP versus FN
LAMB1	-1.405	8.418	0	Underexpressed in FP versus FN
DUSP4	-1.973	5.437	0	Underexpressed in FP versus FN
CTDSPL	-1.066	5.121	0	Underexpressed in FP versus FN
BMPR1B	-3.221	3.122	0	Underexpressed in FP versus FN
LONRF3	-2.761	-0.383	0	Underexpressed in FP versus FN
GAREM	-2.545	3.052	0	Underexpressed in FP versus FN
AGRN	-1.683	7.159	0	Underexpressed in FP versus FN
BACH2	-2.513	3.421	0	Underexpressed in FP versus FN
FUT4	-1.303	3.310	0	Underexpressed in FP versus FN
ROBO3	-2.197	3.978	0	Underexpressed in FP versus FN
GLT25D2	-4.074	2.282	0	Underexpressed in FP versus FN
MAP4K2	-1.142	3.798	0	Underexpressed in FP versus FN
EGFR	-3.320	3.581	0	Underexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ARL4A	-1.944	3.413	0	Underexpressed in FP versus FN
GPR162	-2.111	3.673	0	Underexpressed in FP versus FN
ARHGEF40	-1.135	6.683	0	Underexpressed in FP versus FN
ANKRD50	-1.024	5.996	0	Underexpressed in FP versus FN
TRPS1	-2.616	4.487	0	Underexpressed in FP versus FN
RCOR2	-1.711	5.508	0	Underexpressed in FP versus FN
KCNK5	-2.548	2.934	0	Underexpressed in FP versus FN
GRK5	-1.214	4.542	0	Underexpressed in FP versus FN
RAB3IL1	-1.995	3.809	0	Underexpressed in FP versus FN
SERTAD4	-3.361	1.819	0	Underexpressed in FP versus FN
DUSP9	-3.639	0.253	0	Underexpressed in FP versus FN
KBTBD11	-2.032	4.809	0	Underexpressed in FP versus FN
INPP4B	-1.825	2.861	0	Underexpressed in FP versus FN
NRIP3	-2.229	0.930	0	Underexpressed in FP versus FN
FAM13A	-1.240	5.033	0	Underexpressed in FP versus FN
DLG4	-1.783	4.148	0	Underexpressed in FP versus FN
PLAUR	-1.391	4.097	0	Underexpressed in FP versus FN
FAM198B	-1.748	5.613	0	Underexpressed in FP versus FN
HMGA2	-5.417	5.122	0	Underexpressed in FP versus FN
NLGN2	-1.739	5.667	0	Underexpressed in FP versus FN
NNAT	-4.087	7.736	0	Underexpressed in FP versus FN
DNM3OS	-2.642	6.029	0	Underexpressed in FP versus FN
MSC	-1.727	6.924	0	Underexpressed in FP versus FN
BMP4	-2.746	3.403	0	Underexpressed in FP versus FN
COL5A2	-1.766	8.516	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
LBX2-AS1	-2.301	2.171	0	Underexpressed in FP versus FN
ETV6	-1.002	5.000	0	Underexpressed in FP versus FN
LEFTY1	-3.133	1.517	0	Underexpressed in FP versus FN
NHSL1	-1.436	3.863	0	Underexpressed in FP versus FN
FREM1	-3.459	3.497	0	Underexpressed in FP versus FN
ACSS1	-1.766	5.015	0	Underexpressed in FP versus FN
KHK	-1.795	1.330	0	Underexpressed in FP versus FN
SLC1A5	-1.499	5.274	0	Underexpressed in FP versus FN
ADAMTS7	-2.081	4.879	0	Underexpressed in FP versus FN
MMP23A	-2.198	2.437	0	Underexpressed in FP versus FN
CPXM1	-2.184	6.424	0	Underexpressed in FP versus FN
MTUS1	-1.984	5.339	0	Underexpressed in FP versus FN
BCL9L	-1.083	6.255	0	Underexpressed in FP versus FN
KCNMB2	-3.955	0.186	0	Underexpressed in FP versus FN
ECEL1	-4.190	0.730	0	Underexpressed in FP versus FN
LEPREL2	-1.782	5.452	0	Underexpressed in FP versus FN
MAML2	-2.137	2.839	0	Underexpressed in FP versus FN
WLS	-1.931	4.738	0	Underexpressed in FP versus FN
CDH11	-1.511	6.428	0	Underexpressed in FP versus FN
WASF3	-2.200	3.963	0	Underexpressed in FP versus FN
TANC1	-1.044	6.276	0	Underexpressed in FP versus FN
PMP22	-1.678	6.009	0	Underexpressed in FP versus FN
IGSF3	-1.144	6.141	0	Underexpressed in FP versus FN
MTMR9LP	-1.310	4.248	0	Underexpressed in FP versus FN
FAM217B	-1.243	5.418	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FAS	-1.416	3.407	0	Underexpressed in FP versus FN
PVT1	-1.460	3.650	0	Underexpressed in FP versus FN
DGKE	-1.572	3.513	0	Underexpressed in FP versus FN
HIST3H2A	-2.392	1.368	0	Underexpressed in FP versus FN
TRIL	-2.463	6.114	0	Underexpressed in FP versus FN
LRCH1	-1.059	5.239	0	Underexpressed in FP versus FN
CACNA1G	-3.612	3.581	0	Underexpressed in FP versus FN
S1PR2	-2.022	3.388	0	Underexpressed in FP versus FN
ZIC1	-2.008	5.962	0	Underexpressed in FP versus FN
EPB41L2	-1.100	7.233	0	Underexpressed in FP versus FN
RNF135	-1.300	3.210	0	Underexpressed in FP versus FN
SELENBP1	-1.462	4.374	0	Underexpressed in FP versus FN
CD44	-1.511	6.278	0	Underexpressed in FP versus FN
RGMA	-1.434	6.244	0	Underexpressed in FP versus FN
TWSG1	-1.192	6.150	0	Underexpressed in FP versus FN
RAB11FIP1	-1.379	4.478	0	Underexpressed in FP versus FN
BMP1	-1.153	7.040	0	Underexpressed in FP versus FN
LEPREL4	-1.072	5.653	0	Underexpressed in FP versus FN
BCL9	-1.064	5.972	0	Underexpressed in FP versus FN
SDC1	-2.575	4.662	0	Underexpressed in FP versus FN
KATNAL2	-1.189	2.900	0	Underexpressed in FP versus FN
ASNS	-1.189	5.216	0	Underexpressed in FP versus FN
KLF11	-1.223	4.348	0	Underexpressed in FP versus FN
SEC11C	-1.491	3.600	0	Underexpressed in FP versus FN
LEFTY2	-3.074	1.333	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DDAH1	-1.885	4.736	0	Underexpressed in FP versus FN
NCOA2	-1.956	4.060	0	Underexpressed in FP versus FN
FOXP2	-2.351	4.221	0	Underexpressed in FP versus FN
ARHGAP29	-1.428	5.746	0	Underexpressed in FP versus FN
MAST3	-1.154	4.424	0	Underexpressed in FP versus FN
PLEKHG4	-2.533	4.200	0	Underexpressed in FP versus FN
C20orf96	-1.264	4.692	0	Underexpressed in FP versus FN
TMEM65	-1.078	4.869	0	Underexpressed in FP versus FN
HOXC13	-5.438	-0.443	0	Underexpressed in FP versus FN
TRAM1	-1.049	7.300	0	Underexpressed in FP versus FN
IRS1	-1.144	5.870	0	Underexpressed in FP versus FN
ZSCAN5A	-1.100	1.996	0	Underexpressed in FP versus FN
LPCAT2	-1.733	3.055	0	Underexpressed in FP versus FN
TRIM17	-2.043	0.587	0	Underexpressed in FP versus FN
GLT8D2	-2.304	4.634	0	Underexpressed in FP versus FN
SRGAP3	-1.649	4.148	0	Underexpressed in FP versus FN
RARG	-1.413	4.434	0	Underexpressed in FP versus FN
HOXC6	-2.760	3.552	0	Underexpressed in FP versus FN
LINC00622	-1.889	2.015	0	Underexpressed in FP versus FN
TLX2	-4.536	-2.321	0	Underexpressed in FP versus FN
HOXC12	-5.450	-2.950	0	Underexpressed in FP versus FN
DCAF13P3	-1.003	2.418	0	Underexpressed in FP versus FN
TRPV4	-1.614	2.307	0	Underexpressed in FP versus FN
PIK3R1	-1.022	5.981	0	Underexpressed in FP versus FN
NRXN2	-2.626	3.393	0	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RCBTB2	-1.140	5.517	0	Underexpressed in FP versus FN
IGF2BP1	-4.674	4.999	0	Underexpressed in FP versus FN
AMPD2	-1.234	6.380	0	Underexpressed in FP versus FN
SCN2B	-4.182	-0.877	0	Underexpressed in FP versus FN
PDE4B	-2.498	3.778	0	Underexpressed in FP versus FN
VCAN	-1.922	8.152	0	Underexpressed in FP versus FN
SHISA2	-2.282	5.557	0	Underexpressed in FP versus FN
SERTAD4-AS1	-1.924	0.487	0	Underexpressed in FP versus FN
SHISA5	-1.274	5.772	0	Underexpressed in FP versus FN
CCIN	-2.997	1.551	0	Underexpressed in FP versus FN
AHCYL2	-1.229	4.454	0	Underexpressed in FP versus FN
CRISPLD1	-3.537	4.134	0	Underexpressed in FP versus FN
PIWIL4	-1.669	1.697	0	Underexpressed in FP versus FN
MC4R	-4.453	-1.246	0	Underexpressed in FP versus FN
LOC729950	-2.611	0.127	0	Underexpressed in FP versus FN
FZD1	-1.173	5.305	0	Underexpressed in FP versus FN
GULP1	-2.439	3.039	0	Underexpressed in FP versus FN
LRRC3B	-2.245	1.879	0	Underexpressed in FP versus FN
MSTN	-2.677	5.285	0	Underexpressed in FP versus FN
LPPR2	-1.504	4.094	0	Underexpressed in FP versus FN
ENDOD1	-1.250	4.435	0	Underexpressed in FP versus FN
HERC5	-2.399	3.360	0	Underexpressed in FP versus FN
ITPRIP	-1.395	4.299	0	Underexpressed in FP versus FN
NOTCH3	-1.243	8.401	0	Underexpressed in FP versus FN
ITGA9	-1.933	2.807	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CTF1	-1.651	1.379	0	Underexpressed in FP versus FN
FAM66C	-2.148	0.451	0	Underexpressed in FP versus FN
CPVL	-1.655	4.386	0	Underexpressed in FP versus FN
HIF3A	-2.851	5.685	0	Underexpressed in FP versus FN
SLC16A9	-3.001	3.919	0	Underexpressed in FP versus FN
HOXD4	-3.218	1.923	0	Underexpressed in FP versus FN
ERF	-1.094	5.931	0	Underexpressed in FP versus FN
PAX9	-3.979	-2.704	0	Underexpressed in FP versus FN
NDST4	-3.723	-0.161	0	Underexpressed in FP versus FN
PTGER4	-2.635	3.494	0	Underexpressed in FP versus FN
ADCY1	-2.419	3.385	0	Underexpressed in FP versus FN
ROBO1	-1.731	6.541	0	Underexpressed in FP versus FN
FKBP10	-1.172	7.769	0	Underexpressed in FP versus FN
MMP23B	-2.266	-0.080	0	Underexpressed in FP versus FN
GPRIN3	-2.684	1.559	0	Underexpressed in FP versus FN
LAPTM4B	-1.102	7.531	0	Underexpressed in FP versus FN
MATN3	-2.228	1.538	0	Underexpressed in FP versus FN
SLC1A6	-3.688	-1.776	0	Underexpressed in FP versus FN
FLRT3	-3.449	2.532	0	Underexpressed in FP versus FN
WWTR1	-1.131	6.604	0	Underexpressed in FP versus FN
NYAP1	-2.333	1.297	0	Underexpressed in FP versus FN
OPLAH	-2.011	3.552	0	Underexpressed in FP versus FN
MFAP4	-1.822	7.205	0	Underexpressed in FP versus FN
NKD2	-2.195	2.468	0	Underexpressed in FP versus FN
MYRF	-2.124	1.974	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CA14	-2.539	0.481	0	Underexpressed in FP versus FN
C4orf19	-2.464	0.298	0	Underexpressed in FP versus FN
PNMA3	-3.116	0.819	0	Underexpressed in FP versus FN
BDNF	-3.903	-0.125	0	Underexpressed in FP versus FN
HEY1	-1.975	5.501	0	Underexpressed in FP versus FN
PLBD1	-1.795	4.289	0	Underexpressed in FP versus FN
FBN1	-1.240	7.411	0	Underexpressed in FP versus FN
NEDD4L	-2.128	5.796	0	Underexpressed in FP versus FN
GFRA1	-3.149	4.949	0	Underexpressed in FP versus FN
TSC22D3	-1.158	6.746	0	Underexpressed in FP versus FN
RGS14	-1.608	3.289	0	Underexpressed in FP versus FN
ADAM9	-1.028	6.056	0	Underexpressed in FP versus FN
ARSI	-1.955	3.433	0	Underexpressed in FP versus FN
KCNA5	-3.180	-0.863	0	Underexpressed in FP versus FN
SEMA3E	-4.948	-1.106	0	Underexpressed in FP versus FN
PTN	-4.223	4.662	0	Underexpressed in FP versus FN
CADM4	-1.813	4.343	0	Underexpressed in FP versus FN
SEC16B	-1.978	2.842	0	Underexpressed in FP versus FN
LTB4R	-1.241	4.047	0	Underexpressed in FP versus FN
HOXD-AS1	-1.949	2.106	0	Underexpressed in FP versus FN
LRFN1	-2.151	1.318	0	Underexpressed in FP versus FN
RDH10	-1.904	3.703	0	Underexpressed in FP versus FN
BICC1	-2.311	2.364	0	Underexpressed in FP versus FN
ARHGAP32	-1.406	5.293	0	Underexpressed in FP versus FN
LOC100288181	-2.593	-0.520	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SLC6A9	-1.515	1.774	0	Underexpressed in FP versus FN
SH3BP5	-1.594	2.474	0	Underexpressed in FP versus FN
C3orf58	-1.311	5.293	0	Underexpressed in FP versus FN
NOTCH2	-1.173	7.629	0	Underexpressed in FP versus FN
KLHL13	-1.222	4.984	0	Underexpressed in FP versus FN
BOP1	-1.003	3.642	0	Underexpressed in FP versus FN
NPPC	-3.223	-0.177	0	Underexpressed in FP versus FN
PKI55	-1.085	4.379	0	Underexpressed in FP versus FN
B3GALTL	-1.229	4.271	0	Underexpressed in FP versus FN
C1QL4	-3.539	1.323	0	Underexpressed in FP versus FN
CDCA2	-1.061	4.890	0	Underexpressed in FP versus FN
FBXO43	-2.100	1.930	0	Underexpressed in FP versus FN
LIF	-1.984	2.067	0	Underexpressed in FP versus FN
SRGAP2D	-1.252	1.782	0	Underexpressed in FP versus FN
RAB32	-1.297	3.716	0	Underexpressed in FP versus FN
ENOX1	-1.546	4.189	0	Underexpressed in FP versus FN
CPA6	-4.110	-3.372	0	Underexpressed in FP versus FN
GALNT13	-3.153	-0.621	0	Underexpressed in FP versus FN
LOC100507373	-1.279	2.197	0	Underexpressed in FP versus FN
DLL3	-3.081	-0.602	0	Underexpressed in FP versus FN
TRIM29	-4.225	-0.997	0	Underexpressed in FP versus FN
OLFML3	-1.857	5.387	0	Underexpressed in FP versus FN
FAT4	-2.532	3.623	0	Underexpressed in FP versus FN
S1PR3	-1.330	4.869	0	Underexpressed in FP versus FN
RND3	-1.569	6.182	0	Underexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
MRC2	-1.310	6.983	0	Underexpressed in FP versus FN
GLI3	-1.157	6.333	0	Underexpressed in FP versus FN
PLAG1	-3.203	3.323	0	Underexpressed in FP versus FN
GHR	-1.839	3.982	0	Underexpressed in FP versus FN
COL12A1	-1.659	7.729	0	Underexpressed in FP versus FN
RIN2	-1.007	5.347	0	Underexpressed in FP versus FN
HOXD-AS2	-2.457	0.952	0	Underexpressed in FP versus FN
IGFBP5	-1.584	10.076	0	Underexpressed in FP versus FN
COLEC12	-2.672	4.125	0	Underexpressed in FP versus FN
KIRREL2	-4.218	-1.586	0	Underexpressed in FP versus FN
CPS1	-3.399	1.835	0	Underexpressed in FP versus FN
RAB27B	-3.243	-1.341	0	Underexpressed in FP versus FN
PTH2R	-3.010	-1.233	0	Underexpressed in FP versus FN
TMTC1	-1.880	5.655	0	Underexpressed in FP versus FN
DDR2	-1.518	3.883	0	Underexpressed in FP versus FN
FCHSD1	-1.928	3.426	0	Underexpressed in FP versus FN
OR7A5	-3.963	-0.981	0	Underexpressed in FP versus FN
BNC1	-4.794	-0.972	0	Underexpressed in FP versus FN
KCNE1L	-3.615	0.833	0	Underexpressed in FP versus FN
RUSC2	-1.189	5.072	0	Underexpressed in FP versus FN
TMEM45A	-1.607	3.745	0	Underexpressed in FP versus FN
MATN1	-2.309	0.112	0	Underexpressed in FP versus FN
RSAD2	-1.931	2.536	0	Underexpressed in FP versus FN
ERN1	-1.446	2.031	0	Underexpressed in FP versus FN
HHAT	-1.176	3.360	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM144	-2.181	1.728	0	Underexpressed in FP versus FN
LRP1	-1.384	8.367	0	Underexpressed in FP versus FN
UNC5D	-4.270	-1.745	0	Underexpressed in FP versus FN
CSRNP3	-3.598	2.705	0	Underexpressed in FP versus FN
FKBP5	-1.387	5.207	0	Underexpressed in FP versus FN
MACROD2	-3.101	0.901	0	Underexpressed in FP versus FN
OLFM2	-1.861	5.050	0	Underexpressed in FP versus FN
FAM43A	-1.873	4.380	0	Underexpressed in FP versus FN
IFI44	-1.864	4.412	0	Underexpressed in FP versus FN
ZNF114	-2.936	-0.651	0	Underexpressed in FP versus FN
DOK6	-2.637	2.224	0	Underexpressed in FP versus FN
MANSC1	-1.484	1.949	0	Underexpressed in FP versus FN
HPSE2	-4.855	-0.269	0	Underexpressed in FP versus FN
PIWIL2	-2.645	0.761	0	Underexpressed in FP versus FN
HOXC8	-2.699	1.786	0	Underexpressed in FP versus FN
CRIM1	-1.277	4.827	0	Underexpressed in FP versus FN
SNCAIP	-3.433	2.331	0	Underexpressed in FP versus FN
FLJ13197	-1.690	2.211	0	Underexpressed in FP versus FN
NMI	-1.200	2.886	0	Underexpressed in FP versus FN
FGF18	-1.716	0.664	0	Underexpressed in FP versus FN
PCSK5	-1.962	2.741	0	Underexpressed in FP versus FN
SYT1	-3.499	-0.057	0	Underexpressed in FP versus FN
PRSS12	-3.961	1.466	0	Underexpressed in FP versus FN
EFNB3	-2.365	1.935	0	Underexpressed in FP versus FN
TUSC3	-1.104	6.642	0	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
DCHS1	-1.245	7.098	0.000	Underexpressed in FP versus FN
FAM212A	-1.428	1.912	0.000	Underexpressed in FP versus FN
MDFI	-1.642	6.377	0.000	Underexpressed in FP versus FN
MGAT5B	-2.390	-0.025	0.001	Underexpressed in FP versus FN
UGT3A2	-2.787	0.620	0.001	Underexpressed in FP versus FN
TBX4	-4.098	1.741	0.001	Underexpressed in FP versus FN
GPC3	-2.023	7.697	0.000	Underexpressed in FP versus FN
OPRL1	-1.861	0.997	0.001	Underexpressed in FP versus FN
GLRB	-1.779	2.148	0.000	Underexpressed in FP versus FN
MUM1L1	-2.101	3.851	0.000	Underexpressed in FP versus FN
CCL11	-3.479	0.354	0.001	Underexpressed in FP versus FN
CHRM3	-2.509	-0.060	0.001	Underexpressed in FP versus FN
UNC5C	-2.958	1.298	0.001	Underexpressed in FP versus FN
LOC100506497	-2.134	0.626	0.001	Underexpressed in FP versus FN
CAMK2A	-2.609	2.892	0.000	Underexpressed in FP versus FN
BTBD3	-1.055	6.331	0.000	Underexpressed in FP versus FN
CCDC19	-2.084	-1.190	0.001	Underexpressed in FP versus FN
HOXD3	-1.970	1.973	0.001	Underexpressed in FP versus FN
ADAMTS10	-1.911	4.461	0.000	Underexpressed in FP versus FN
SLC35F2	-1.775	2.391	0.000	Underexpressed in FP versus FN
EFNA3	-1.763	1.068	0.001	Underexpressed in FP versus FN
MST4	-2.045	5.718	0.000	Underexpressed in FP versus FN
HOXC11	-4.582	2.168	0.001	Underexpressed in FP versus FN
LHFP	-1.265	6.386	0.000	Underexpressed in FP versus FN
MTSS1	-1.014	6.518	0.000	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
IGF2BP2	-2.972	4.861	0.000	Underexpressed in FP versus FN
STAC	-2.629	0.881	0.001	Underexpressed in FP versus FN
VAX1	-5.823	-0.249	0.001	Underexpressed in FP versus FN
CNTNAP2	-3.812	-0.343	0.001	Underexpressed in FP versus FN
CDR1	-3.250	-0.127	0.001	Underexpressed in FP versus FN
BARX2	-7.160	0.076	0.001	Underexpressed in FP versus FN
PLEKHA5	-1.136	4.877	0.000	Underexpressed in FP versus FN
XPNPEP2	-2.766	1.029	0.001	Underexpressed in FP versus FN
HAS2	-2.458	2.381	0.001	Underexpressed in FP versus FN
FAM155B	-2.711	0.576	0.001	Underexpressed in FP versus FN
SPATA6	-1.396	4.018	0.000	Underexpressed in FP versus FN
NPAS3	-3.167	1.148	0.001	Underexpressed in FP versus FN
LOC100506013	-4.756	-3.877	0.001	Underexpressed in FP versus FN
SLC35G1	-1.234	1.562	0.001	Underexpressed in FP versus FN
ZNF462	-1.824	3.532	0.001	Underexpressed in FP versus FN
CMPK2	-1.514	2.244	0.001	Underexpressed in FP versus FN
NID1	-1.266	7.292	0.000	Underexpressed in FP versus FN
AMMECR1	-1.143	4.053	0.000	Underexpressed in FP versus FN
SAMD5	-2.707	2.180	0.001	Underexpressed in FP versus FN
NYNRIN	-1.617	5.682	0.000	Underexpressed in FP versus FN
ADAMTS6	-2.039	2.997	0.001	Underexpressed in FP versus FN
IGSF9	-3.303	2.190	0.001	Underexpressed in FP versus FN
TAC1	-4.859	-2.495	0.001	Underexpressed in FP versus FN
SAMD9	-1.559	3.340	0.001	Underexpressed in FP versus FN
PRSS56	-2.218	1.103	0.001	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RBM43	-1.033	2.895	0.001	Underexpressed in FP versus FN
MTMR11	-1.330	3.271	0.001	Underexpressed in FP versus FN
LINC00624	-3.687	-1.919	0.001	Underexpressed in FP versus FN
WNK4	-1.933	0.182	0.001	Underexpressed in FP versus FN
RGAG4	-1.385	3.848	0.001	Underexpressed in FP versus FN
RP1-177G6.2	-4.787	-2.246	0.001	Underexpressed in FP versus FN
MB21D1	-1.082	2.223	0.001	Underexpressed in FP versus FN
EMR2	-1.543	2.853	0.001	Underexpressed in FP versus FN
TMEM35	-2.665	0.359	0.001	Underexpressed in FP versus FN
SAMD10	-1.384	1.678	0.001	Underexpressed in FP versus FN
C11orf75	-1.120	2.770	0.001	Underexpressed in FP versus FN
NRGN	-1.486	2.160	0.001	Underexpressed in FP versus FN
IL17D	-1.295	2.948	0.001	Underexpressed in FP versus FN
NCR3LG1	-2.069	1.078	0.001	Underexpressed in FP versus FN
SIPA1	-1.033	5.368	0.000	Underexpressed in FP versus FN
SMAD6	-1.249	3.075	0.001	Underexpressed in FP versus FN
STAMBPL1	-1.628	1.989	0.001	Underexpressed in FP versus FN
SNHG4	-1.552	2.119	0.001	Underexpressed in FP versus FN
NAV3	-2.817	3.325	0.001	Underexpressed in FP versus FN
LIX1	-3.422	-0.949	0.001	Underexpressed in FP versus FN
ANGPT1	-2.221	1.714	0.001	Underexpressed in FP versus FN
AMOT	-1.521	4.602	0.001	Underexpressed in FP versus FN
SLFN12	-1.989	1.757	0.001	Underexpressed in FP versus FN
PARP8	-2.050	3.908	0.001	Underexpressed in FP versus FN
ANGPTL1	-2.393	3.269	0.001	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FABP5	-2.024	3.066	0.001	Underexpressed in FP versus FN
DDX60	-1.138	3.515	0.001	Underexpressed in FP versus FN
PRKAA2	-3.037	1.484	0.001	Underexpressed in FP versus FN
EFHA2	-2.102	2.687	0.001	Underexpressed in FP versus FN
SULT1E1	-4.271	-3.405	0.001	Underexpressed in FP versus FN
KCNJ15	-2.392	0.259	0.001	Underexpressed in FP versus FN
LIN7A	-2.333	0.181	0.001	Underexpressed in FP versus FN
CPM	-2.908	4.124	0.001	Underexpressed in FP versus FN
TAS1R1	-2.826	-0.345	0.001	Underexpressed in FP versus FN
CCKAR	-4.527	-1.860	0.001	Underexpressed in FP versus FN
CCDC144NL	-4.339	-2.708	0.001	Underexpressed in FP versus FN
PDPN	-2.379	3.086	0.001	Underexpressed in FP versus FN
HMG5	-1.599	2.285	0.001	Underexpressed in FP versus FN
ENDOU	-2.027	-1.319	0.001	Underexpressed in FP versus FN
TRIP6	-1.350	5.769	0.001	Underexpressed in FP versus FN
SEMA4F	-1.738	3.170	0.001	Underexpressed in FP versus FN
PCDHA2	-2.914	-0.588	0.001	Underexpressed in FP versus FN
STEAP2	-3.193	2.793	0.001	Underexpressed in FP versus FN
ADAM22	-1.833	3.672	0.001	Underexpressed in FP versus FN
DCHS2	-3.927	-0.859	0.001	Underexpressed in FP versus FN
FAIM2	-2.098	3.219	0.001	Underexpressed in FP versus FN
LRFN3	-1.248	3.239	0.001	Underexpressed in FP versus FN
HOXA13	-3.967	-1.380	0.001	Underexpressed in FP versus FN
THEM6	-1.105	3.435	0.001	Underexpressed in FP versus FN
SPAG1	-1.671	0.641	0.001	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
LRRC38	-3.951	-3.351	0.001	Underexpressed in FP versus FN
PRRT2	-1.374	2.885	0.001	Underexpressed in FP versus FN
GAS2	-4.946	1.988	0.001	Underexpressed in FP versus FN
REEP6	-1.861	0.398	0.001	Underexpressed in FP versus FN
MRGPRF	-1.864	2.854	0.001	Underexpressed in FP versus FN
CYP26B1	-1.970	3.216	0.001	Underexpressed in FP versus FN
HOTAIR	-4.622	2.609	0.001	Underexpressed in FP versus FN
DIRAS3	-1.882	0.401	0.001	Underexpressed in FP versus FN
NTNG1	-4.197	-2.158	0.001	Underexpressed in FP versus FN
HAND2	-2.907	1.951	0.001	Underexpressed in FP versus FN
PPAP2B	-1.503	5.295	0.001	Underexpressed in FP versus FN
DAAM2	-1.374	4.784	0.001	Underexpressed in FP versus FN
HOXC10	-3.872	3.416	0.001	Underexpressed in FP versus FN
STEAP1B	-2.104	0.248	0.001	Underexpressed in FP versus FN
NAT1	-1.510	0.935	0.001	Underexpressed in FP versus FN
SH2D4A	-2.257	1.415	0.001	Underexpressed in FP versus FN
SLC40A1	-1.001	6.113	0.001	Underexpressed in FP versus FN
TAGLN2	-1.157	6.797	0.001	Underexpressed in FP versus FN
ITM2C	-1.490	6.696	0.001	Underexpressed in FP versus FN
MAGEL2	-2.039	3.877	0.001	Underexpressed in FP versus FN
CD300E	-2.485	-0.327	0.001	Underexpressed in FP versus FN
XIRP2	-3.903	2.571	0.001	Underexpressed in FP versus FN
CCDC89	-1.228	1.498	0.001	Underexpressed in FP versus FN
PDGFC	-1.264	5.657	0.001	Underexpressed in FP versus FN
IGSF1	-2.445	2.134	0.001	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
HTR7P1	-1.429	1.784	0.001	Underexpressed in FP versus FN
PCNXL2	-2.278	2.522	0.001	Underexpressed in FP versus FN
LTBP1	-1.688	6.175	0.001	Underexpressed in FP versus FN
ADCYAP1R1	-2.117	4.357	0.001	Underexpressed in FP versus FN
LY6E	-1.393	5.889	0.001	Underexpressed in FP versus FN
PNMAL2	-1.252	2.167	0.001	Underexpressed in FP versus FN
MAGEC3	-2.929	-2.646	0.002	Underexpressed in FP versus FN
MMP16	-3.153	1.821	0.001	Underexpressed in FP versus FN
SLC17A5	-1.001	3.806	0.001	Underexpressed in FP versus FN
OSBPL10	-1.449	3.455	0.001	Underexpressed in FP versus FN
XKR5	-1.811	2.634	0.001	Underexpressed in FP versus FN
6-Sep	-1.141	6.187	0.001	Underexpressed in FP versus FN
CNTN3	-3.304	1.612	0.002	Underexpressed in FP versus FN
EYA4	-1.635	4.705	0.001	Underexpressed in FP versus FN
OLFML1	-1.431	4.023	0.001	Underexpressed in FP versus FN
DUSP6	-1.750	6.747	0.001	Underexpressed in FP versus FN
PRAC	-4.938	-3.528	0.002	Underexpressed in FP versus FN
SIDT1	-1.872	0.947	0.002	Underexpressed in FP versus FN
CD101	-1.495	3.750	0.001	Underexpressed in FP versus FN
SLCO5A1	-2.485	-0.505	0.002	Underexpressed in FP versus FN
DMC1	-2.022	-0.033	0.002	Underexpressed in FP versus FN
CYP46A1	-1.395	0.821	0.002	Underexpressed in FP versus FN
LOC100506190	-1.163	2.460	0.001	Underexpressed in FP versus FN
DLX6	-3.681	-2.296	0.002	Underexpressed in FP versus FN
SLC44A3	-1.527	1.611	0.002	Underexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SP110	-1.256	3.258	0.001	Underexpressed in FP versus FN
GRIK5	-2.555	2.706	0.002	Underexpressed in FP versus FN
KCNN1	-2.374	-1.025	0.002	Underexpressed in FP versus FN
OCA2	-2.670	1.168	0.002	Underexpressed in FP versus FN
ZNF280B	-1.847	2.246	0.002	Underexpressed in FP versus FN
NCAM2	-2.634	0.433	0.002	Underexpressed in FP versus FN
SH3RF3	-1.182	4.755	0.001	Underexpressed in FP versus FN
GALNT3	-1.841	1.063	0.002	Underexpressed in FP versus FN
COL21A1	-1.759	4.912	0.001	Underexpressed in FP versus FN
HS6ST2	-1.093	6.412	0.001	Underexpressed in FP versus FN
INSC	-2.505	-1.633	0.002	Underexpressed in FP versus FN
CITED1	-1.363	3.363	0.001	Underexpressed in FP versus FN
ITGA2B	-2.023	0.593	0.002	Underexpressed in FP versus FN
CDK6	-1.275	7.833	0.001	Underexpressed in FP versus FN
NPTX2	-4.079	3.940	0.002	Underexpressed in FP versus FN
LIPE	-1.264	2.447	0.002	Underexpressed in FP versus FN
LOC338817	-2.003	-0.002	0.002	Underexpressed in FP versus FN
CNTN6	-2.986	0.065	0.002	Underexpressed in FP versus FN
CD97	-1.269	5.025	0.001	Underexpressed in FP versus FN
TPTEP1	-2.469	-0.344	0.002	Underexpressed in FP versus FN
HSD3BP4	-2.294	0.026	0.002	Underexpressed in FP versus FN
IFIT2	-1.371	3.400	0.002	Underexpressed in FP versus FN
ANKRD20A5P	-2.677	-1.661	0.002	Underexpressed in FP versus FN
RGS19	-1.100	3.255	0.002	Underexpressed in FP versus FN
PCDH10	-3.020	0.016	0.003	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
MATN2	-1.818	5.992	0.001	Underexpressed in FP versus FN
PLSCR1	-1.031	4.247	0.001	Underexpressed in FP versus FN
MGAT5	-1.027	6.403	0.001	Underexpressed in FP versus FN
TMEM108	-1.914	3.301	0.002	Underexpressed in FP versus FN
IQSEC2	-1.328	3.054	0.002	Underexpressed in FP versus FN
COL9A3	-4.069	3.234	0.002	Underexpressed in FP versus FN
LTB4R2	-1.130	0.848	0.003	Underexpressed in FP versus FN
CACNA1C	-1.547	3.570	0.002	Underexpressed in FP versus FN
FOXA1	-3.076	-3.045	0.003	Underexpressed in FP versus FN
KCNJ3	-3.820	-0.977	0.003	Underexpressed in FP versus FN
TBC1D8B	-1.554	2.438	0.002	Underexpressed in FP versus FN
LOC440910	-4.635	-3.226	0.003	Underexpressed in FP versus FN
PDE5A	-1.161	4.549	0.002	Underexpressed in FP versus FN
IL1RAPL2	-2.499	-0.146	0.003	Underexpressed in FP versus FN
GYLTL1B	-2.691	-1.137	0.003	Underexpressed in FP versus FN
SH2D2A	-1.695	0.652	0.003	Underexpressed in FP versus FN
TM4SF1	-1.044	4.170	0.002	Underexpressed in FP versus FN
PABPC4L	-1.444	2.810	0.002	Underexpressed in FP versus FN
PI15	-3.300	2.322	0.003	Underexpressed in FP versus FN
TRIM46	-1.606	1.878	0.003	Underexpressed in FP versus FN
SBSPON	-1.309	2.384	0.002	Underexpressed in FP versus FN
C2orf81	-1.093	1.775	0.003	Underexpressed in FP versus FN
MIPOL1	-2.178	2.426	0.003	Underexpressed in FP versus FN
COL15A1	-1.324	7.395	0.002	Underexpressed in FP versus FN
STK32A	-2.600	-2.169	0.003	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SLC5A1	-3.140	-3.135	0.003	Underexpressed in FP versus FN
TGFBR2	-1.062	5.865	0.002	Underexpressed in FP versus FN
SOWAHA	-2.617	-2.388	0.003	Underexpressed in FP versus FN
GNB3	-1.209	4.781	0.002	Underexpressed in FP versus FN
GJA5	-1.659	2.604	0.003	Underexpressed in FP versus FN
FAM13C	-1.325	1.832	0.003	Underexpressed in FP versus FN
SCN9A	-2.894	1.987	0.003	Underexpressed in FP versus FN
C1orf114	-1.422	1.411	0.003	Underexpressed in FP versus FN
MAMDC2	-1.915	2.087	0.003	Underexpressed in FP versus FN
OSR1	-2.410	1.444	0.003	Underexpressed in FP versus FN
NOS2	-1.640	0.020	0.003	Underexpressed in FP versus FN
FCN1	-2.607	-0.429	0.004	Underexpressed in FP versus FN
CSGALNACT1	-1.235	3.269	0.002	Underexpressed in FP versus FN
DUOX2	-2.373	-1.593	0.004	Underexpressed in FP versus FN
SPATA9	-1.181	1.028	0.003	Underexpressed in FP versus FN
LINC00478	-1.748	3.731	0.002	Underexpressed in FP versus FN
TG	-1.867	0.959	0.003	Underexpressed in FP versus FN
MOXD1	-3.325	2.927	0.003	Underexpressed in FP versus FN
AKR1C1	-1.768	1.434	0.003	Underexpressed in FP versus FN
IKBKE	-1.340	2.488	0.003	Underexpressed in FP versus FN
SLC16A14	-1.337	1.688	0.003	Underexpressed in FP versus FN
SAMD12	-2.718	-0.562	0.004	Underexpressed in FP versus FN
XKR9	-2.428	-0.515	0.004	Underexpressed in FP versus FN
CMTM8	-1.130	1.106	0.003	Underexpressed in FP versus FN
ATP10B	-3.148	-3.277	0.004	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
NOV	-2.780	2.968	0.003	Underexpressed in FP versus FN
CYP26A1	-2.933	-1.857	0.004	Underexpressed in FP versus FN
CCL2	-1.972	4.857	0.002	Underexpressed in FP versus FN
METTTL7A	-1.331	4.538	0.002	Underexpressed in FP versus FN
ARHGAP20	-1.804	1.410	0.004	Underexpressed in FP versus FN
AXL	-1.213	4.998	0.002	Underexpressed in FP versus FN
SLC39A4	-1.351	3.274	0.003	Underexpressed in FP versus FN
SPTLC3	-1.818	0.704	0.004	Underexpressed in FP versus FN
NOG	-1.710	2.376	0.003	Underexpressed in FP versus FN
ALX4	-2.494	3.605	0.003	Underexpressed in FP versus FN
FLJ42875	-2.813	0.629	0.004	Underexpressed in FP versus FN
CHN2	-1.562	2.556	0.003	Underexpressed in FP versus FN
LAG3	-1.202	2.170	0.003	Underexpressed in FP versus FN
SLC7A11	-1.895	0.892	0.004	Underexpressed in FP versus FN
NUAK1	-1.186	4.779	0.002	Underexpressed in FP versus FN
CPT1A	-1.141	4.932	0.002	Underexpressed in FP versus FN
CCDC114	-1.660	-0.569	0.005	Underexpressed in FP versus FN
C1orf115	-1.807	2.522	0.003	Underexpressed in FP versus FN
LOC284648	-1.356	1.028	0.004	Underexpressed in FP versus FN
CNN2	-1.006	6.741	0.002	Underexpressed in FP versus FN
SLFN13	-2.549	2.353	0.004	Underexpressed in FP versus FN
ZMYND12	-1.523	-0.910	0.005	Underexpressed in FP versus FN
SH3BGRL	-1.030	6.197	0.002	Underexpressed in FP versus FN
RGS7	-4.311	1.480	0.004	Underexpressed in FP versus FN
RNF144A-AS1	-2.538	-0.429	0.005	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
IGF2	-1.287	8.211	0.003	Underexpressed in FP versus FN
FIGNL2	-1.938	0.072	0.005	Underexpressed in FP versus FN
ZBTB7C	-2.374	1.500	0.004	Underexpressed in FP versus FN
ANKRD44	-1.303	4.098	0.003	Underexpressed in FP versus FN
SPAG17	-2.590	0.349	0.005	Underexpressed in FP versus FN
SAMD14	-1.089	2.293	0.004	Underexpressed in FP versus FN
LPHN3	-1.775	3.376	0.003	Underexpressed in FP versus FN
ARSE	-1.876	0.160	0.005	Underexpressed in FP versus FN
NBLA00301	-2.555	-1.105	0.005	Underexpressed in FP versus FN
SLC25A23	-1.344	4.148	0.003	Underexpressed in FP versus FN
PACSL1	-2.587	1.768	0.005	Underexpressed in FP versus FN
MST1R	-1.423	0.637	0.005	Underexpressed in FP versus FN
EFNA2	-3.083	1.999	0.005	Underexpressed in FP versus FN
RFTN2	-1.455	2.599	0.004	Underexpressed in FP versus FN
SCPEP1	-1.063	4.670	0.003	Underexpressed in FP versus FN
CCND1	-1.505	6.743	0.003	Underexpressed in FP versus FN
COL9A2	-1.976	3.276	0.004	Underexpressed in FP versus FN
ELF4	-1.026	3.903	0.003	Underexpressed in FP versus FN
EPN3	-1.924	-1.361	0.006	Underexpressed in FP versus FN
C19orf38	-1.581	0.315	0.005	Underexpressed in FP versus FN
NPTXR	-1.744	2.834	0.004	Underexpressed in FP versus FN
FBP2	-2.008	0.064	0.006	Underexpressed in FP versus FN
AKR1C2	-1.809	1.712	0.005	Underexpressed in FP versus FN
PDGFRL	-2.061	2.573	0.004	Underexpressed in FP versus FN
SORCS3	-3.767	-3.010	0.006	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RELB	-1.193	3.121	0.004	Underexpressed in FP versus FN
POU2F3	-2.243	-1.557	0.006	Underexpressed in FP versus FN
PEG10	-1.241	8.887	0.003	Underexpressed in FP versus FN
SRXN1	-1.146	4.032	0.003	Underexpressed in FP versus FN
IQGAP2	-1.368	2.884	0.004	Underexpressed in FP versus FN
RSPO4	-2.615	-2.269	0.006	Underexpressed in FP versus FN
GLI1	-2.653	3.476	0.004	Underexpressed in FP versus FN
GJB5	-2.121	-2.502	0.006	Underexpressed in FP versus FN
RTN4RL2	-1.967	1.651	0.005	Underexpressed in FP versus FN
ISM1	-1.606	0.766	0.005	Underexpressed in FP versus FN
DSCR8	-3.666	1.229	0.005	Underexpressed in FP versus FN
KCNH1	-2.107	1.651	0.005	Underexpressed in FP versus FN
PHACTR3	-2.344	2.132	0.005	Underexpressed in FP versus FN
HIC1	-1.321	4.619	0.003	Underexpressed in FP versus FN
EPHX2	-1.609	2.940	0.004	Underexpressed in FP versus FN
LYNX1	-2.100	2.559	0.005	Underexpressed in FP versus FN
B3GALT2	-1.159	3.571	0.004	Underexpressed in FP versus FN
TMEFF2	-3.125	0.708	0.006	Underexpressed in FP versus FN
WFIKKN2	-2.054	-0.163	0.006	Underexpressed in FP versus FN
DAB2	-1.181	5.641	0.003	Underexpressed in FP versus FN
HPCAL4	-2.510	-1.158	0.006	Underexpressed in FP versus FN
KIRREL	-1.336	3.761	0.004	Underexpressed in FP versus FN
CGREF1	-1.853	1.316	0.006	Underexpressed in FP versus FN
FADS2	-1.178	5.815	0.003	Underexpressed in FP versus FN
C11orf35	-1.302	1.375	0.006	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CLSTN3	-1.374	4.501	0.003	Underexpressed in FP versus FN
RARB	-1.246	2.705	0.005	Underexpressed in FP versus FN
GABRA5	-3.057	1.765	0.006	Underexpressed in FP versus FN
EPHB6	-1.640	2.290	0.005	Underexpressed in FP versus FN
F2RL2	-2.385	1.601	0.006	Underexpressed in FP versus FN
ZNF532	-1.031	6.572	0.003	Underexpressed in FP versus FN
RTN4R	-1.700	3.096	0.004	Underexpressed in FP versus FN
DUOXA1	-2.349	-1.952	0.007	Underexpressed in FP versus FN
PHYHIP	-1.693	0.886	0.006	Underexpressed in FP versus FN
ZNF385C	-1.551	2.936	0.005	Underexpressed in FP versus FN
EMB	-2.102	3.627	0.004	Underexpressed in FP versus FN
COL8A2	-2.060	4.167	0.004	Underexpressed in FP versus FN
NELL2	-3.186	1.215	0.006	Underexpressed in FP versus FN
FOXD2	-2.052	0.476	0.006	Underexpressed in FP versus FN
YPEL4	-1.374	1.815	0.006	Underexpressed in FP versus FN
HOXB4	-2.397	1.334	0.006	Underexpressed in FP versus FN
MAGI3	-1.018	3.605	0.004	Underexpressed in FP versus FN
ZNF618	-1.151	5.672	0.003	Underexpressed in FP versus FN
AGAP2	-1.439	4.812	0.003	Underexpressed in FP versus FN
JPH4	-2.993	0.523	0.007	Underexpressed in FP versus FN
KHDRBS2	-2.466	-1.992	0.008	Underexpressed in FP versus FN
IGFBP3	-1.396	6.941	0.003	Underexpressed in FP versus FN
WIF1	-4.053	-2.375	0.008	Underexpressed in FP versus FN
SHROOM1	-1.099	1.893	0.006	Underexpressed in FP versus FN
FZD9	-2.255	1.278	0.007	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
TMEM173	-1.003	5.393	0.003	Underexpressed in FP versus FN
FOXC1	-1.345	2.962	0.005	Underexpressed in FP versus FN
NKX2-3	-3.858	-2.553	0.008	Underexpressed in FP versus FN
BNC2	-1.172	5.326	0.003	Underexpressed in FP versus FN
ESRP1	-3.526	-3.251	0.008	Underexpressed in FP versus FN
LOC400043	-1.398	2.994	0.005	Underexpressed in FP versus FN
SLIT2	-1.635	3.019	0.005	Underexpressed in FP versus FN
CTHRC1	-1.621	5.200	0.004	Underexpressed in FP versus FN
LPIN3	-1.258	2.952	0.005	Underexpressed in FP versus FN
CACNB4	-1.457	1.470	0.007	Underexpressed in FP versus FN
KCNA6	-2.040	0.386	0.008	Underexpressed in FP versus FN
NOTUM	-2.129	1.938	0.007	Underexpressed in FP versus FN
M1	-1.677	2.795	0.006	Underexpressed in FP versus FN
RET	-1.976	1.255	0.007	Underexpressed in FP versus FN
TLX1	-3.386	-0.642	0.008	Underexpressed in FP versus FN
NBPF3	-1.233	2.470	0.006	Underexpressed in FP versus FN
HSD17B2	-3.526	-3.764	0.009	Underexpressed in FP versus FN
SLITRK5	-2.126	3.339	0.006	Underexpressed in FP versus FN
OPRK1	-3.883	-3.695	0.009	Underexpressed in FP versus FN
C1orf54	-1.055	3.411	0.005	Underexpressed in FP versus FN
LRRN4CL	-2.389	1.539	0.007	Underexpressed in FP versus FN
GNG11	-1.003	4.963	0.004	Underexpressed in FP versus FN
IGSF9B	-1.871	0.096	0.008	Underexpressed in FP versus FN
EMILIN3	-1.429	4.867	0.004	Underexpressed in FP versus FN
C1orf116	-2.908	-3.852	0.009	Underexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SIGIRR	-1.327	3.722	0.005	Underexpressed in FP versus FN
HOXA10	-2.398	1.993	0.007	Underexpressed in FP versus FN
DACT3	-1.398	3.991	0.005	Underexpressed in FP versus FN
IGFBP1	-2.574	-4.540	0.009	Underexpressed in FP versus FN
SHROOM2	-1.347	3.231	0.006	Underexpressed in FP versus FN
ARX	-2.298	-1.456	0.010	Underexpressed in FP versus FN
DSC3	-3.556	-3.466	0.010	Underexpressed in FP versus FN
STEAP1	-2.282	1.674	0.008	Underexpressed in FP versus FN
PTPRQ	-2.551	-0.233	0.009	Underexpressed in FP versus FN
SNPH	-1.387	4.858	0.005	Underexpressed in FP versus FN
CD109	-1.157	4.024	0.005	Underexpressed in FP versus FN
EBF2	-1.687	3.350	0.006	Underexpressed in FP versus FN
PDE4A	-1.224	2.948	0.006	Underexpressed in FP versus FN
AGTR2	-3.771	1.087	0.009	Underexpressed in FP versus FN
EMP3	-1.095	5.430	0.004	Underexpressed in FP versus FN
CTCF	-3.967	-1.983	0.011	Underexpressed in FP versus FN
MYF6	-4.692	1.643	0.009	Underexpressed in FP versus FN
PTCH1	-1.096	4.695	0.005	Underexpressed in FP versus FN
NTN3	-1.409	0.604	0.009	Underexpressed in FP versus FN
SEMA3G	-1.465	2.792	0.007	Underexpressed in FP versus FN
CCDC74B-AS1	-4.291	-3.447	0.011	Underexpressed in FP versus FN
CPED1	-1.642	2.535	0.007	Underexpressed in FP versus FN
RHOJ	-1.228	4.590	0.005	Underexpressed in FP versus FN
MKX	-2.985	0.737	0.010	Underexpressed in FP versus FN
ELK3	-1.166	3.739	0.006	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SYT13	-3.641	-1.926	0.011	Underexpressed in FP versus FN
CFI	-1.837	3.172	0.007	Underexpressed in FP versus FN
HOXB-AS5	-4.487	-2.131	0.011	Underexpressed in FP versus FN
NEFH	-1.866	2.859	0.007	Underexpressed in FP versus FN
HOXC9	-1.698	3.062	0.007	Underexpressed in FP versus FN
C1orf233	-1.351	1.892	0.008	Underexpressed in FP versus FN
EREG	-2.608	-4.016	0.012	Underexpressed in FP versus FN
COL3A1	-1.538	11.788	0.008	Underexpressed in FP versus FN
GRIN3A	-2.000	0.761	0.010	Underexpressed in FP versus FN
TCN2	-1.026	3.244	0.007	Underexpressed in FP versus FN
POU5F1P3	-1.338	-0.331	0.011	Underexpressed in FP versus FN
RGS16	-1.151	6.366	0.005	Underexpressed in FP versus FN
RAB25	-1.649	-1.324	0.011	Underexpressed in FP versus FN
ATP8A2	-1.681	-0.024	0.011	Underexpressed in FP versus FN
IFIT1	-1.090	4.274	0.006	Underexpressed in FP versus FN
LYPD5	-1.516	0.073	0.011	Underexpressed in FP versus FN
SBK1	-1.950	3.691	0.007	Underexpressed in FP versus FN
TDO2	-1.661	1.646	0.009	Underexpressed in FP versus FN
SLITRK6	-3.090	-2.712	0.012	Underexpressed in FP versus FN
SLC25A43	-1.032	2.970	0.007	Underexpressed in FP versus FN
SLC17A7	-1.805	0.677	0.011	Underexpressed in FP versus FN
ADORA1	-1.367	4.012	0.006	Underexpressed in FP versus FN
ADAP1	-1.203	1.611	0.010	Underexpressed in FP versus FN
BCAT1	-1.303	7.794	0.006	Underexpressed in FP versus FN
SERPINB13	-3.129	-5.316	0.013	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
GREM2	-2.635	-0.899	0.012	Underexpressed in FP versus FN
SYCP2L	-1.707	0.885	0.011	Underexpressed in FP versus FN
KIAA1324	-1.478	0.073	0.012	Underexpressed in FP versus FN
SERPINI1	-1.747	3.201	0.008	Underexpressed in FP versus FN
CASP8	-1.090	2.841	0.008	Underexpressed in FP versus FN
ADM2	-1.707	1.378	0.010	Underexpressed in FP versus FN
ZIC4	-1.314	2.587	0.009	Underexpressed in FP versus FN
ANXA2R	-1.240	1.463	0.010	Underexpressed in FP versus FN
PCDHA6	-2.307	-1.209	0.013	Underexpressed in FP versus FN
TMEM163	-1.843	1.544	0.010	Underexpressed in FP versus FN
ZC3H12B	-1.213	1.845	0.010	Underexpressed in FP versus FN
SPRY2	-1.182	7.230	0.006	Underexpressed in FP versus FN
TCEAL7	-1.179	4.092	0.007	Underexpressed in FP versus FN
CYR61	-1.269	6.855	0.006	Underexpressed in FP versus FN
KRT5	-3.775	-1.694	0.014	Underexpressed in FP versus FN
FBLN5	-1.737	5.006	0.006	Underexpressed in FP versus FN
LRP4	-1.150	4.627	0.006	Underexpressed in FP versus FN
MYF5	-6.634	2.198	0.012	Underexpressed in FP versus FN
KIAA1683	-1.669	2.318	0.010	Underexpressed in FP versus FN
C3orf67	-1.410	0.984	0.011	Underexpressed in FP versus FN
IGSF10	-1.937	0.823	0.012	Underexpressed in FP versus FN
MPZL2	-1.300	1.993	0.010	Underexpressed in FP versus FN
DCLK2	-1.066	3.927	0.007	Underexpressed in FP versus FN
GNG7	-1.458	2.187	0.010	Underexpressed in FP versus FN
LRRC16A	-1.585	1.802	0.011	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
RAB11FIP5	-1.003	3.895	0.007	Underexpressed in FP versus FN
TMEM119	-1.513	5.439	0.006	Underexpressed in FP versus FN
CYP4V2	-1.142	3.959	0.007	Underexpressed in FP versus FN
TNMD	-3.600	-0.656	0.014	Underexpressed in FP versus FN
CLDN4	-1.804	-0.401	0.013	Underexpressed in FP versus FN
LDLRAD4	-1.143	4.604	0.006	Underexpressed in FP versus FN
PRPH	-2.738	2.199	0.011	Underexpressed in FP versus FN
RDH12	-1.464	-1.240	0.014	Underexpressed in FP versus FN
CYTL1	-3.648	2.235	0.011	Underexpressed in FP versus FN
HOXB3	-2.209	3.786	0.008	Underexpressed in FP versus FN
TRABD2B	-1.535	2.803	0.010	Underexpressed in FP versus FN
DTX4	-1.181	5.144	0.006	Underexpressed in FP versus FN
GRIK4	-2.079	-0.747	0.015	Underexpressed in FP versus FN
LPPR3	-2.473	-0.984	0.015	Underexpressed in FP versus FN
ELL2	-1.121	3.323	0.009	Underexpressed in FP versus FN
GAB3	-1.277	2.518	0.011	Underexpressed in FP versus FN
BPIFB4	-2.489	-2.243	0.016	Underexpressed in FP versus FN
CAPNS2	-2.097	-4.678	0.016	Underexpressed in FP versus FN
AP1M2	-1.224	-0.893	0.015	Underexpressed in FP versus FN
LOC153684	-1.190	0.821	0.013	Underexpressed in FP versus FN
ANKRD20A19P	-4.787	0.368	0.015	Underexpressed in FP versus FN
GSDMA	-2.162	-1.885	0.016	Underexpressed in FP versus FN
NPHS1	-3.239	-2.372	0.016	Underexpressed in FP versus FN
TBX18	-2.340	3.984	0.009	Underexpressed in FP versus FN
C1QTNF9	-1.923	-1.554	0.016	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
FOXD2-AS1	-1.423	1.408	0.013	Underexpressed in FP versus FN
FAM5C	-3.700	-2.118	0.017	Underexpressed in FP versus FN
SNAP25	-1.961	1.637	0.013	Underexpressed in FP versus FN
ABCA8	-2.038	2.561	0.011	Underexpressed in FP versus FN
C1QTNF9B	-2.618	-2.275	0.017	Underexpressed in FP versus FN
C1RL	-1.499	2.967	0.010	Underexpressed in FP versus FN
SYNPO2	-1.127	5.928	0.007	Underexpressed in FP versus FN
NPTX1	-2.362	0.671	0.015	Underexpressed in FP versus FN
PPAP2C	-1.625	-1.071	0.016	Underexpressed in FP versus FN
ACHE	-1.713	2.826	0.011	Underexpressed in FP versus FN
COL4A6	-1.961	0.290	0.015	Underexpressed in FP versus FN
GFRA2	-2.407	1.767	0.013	Underexpressed in FP versus FN
LHX8	-4.088	-3.425	0.018	Underexpressed in FP versus FN
LOC442028	-1.956	-2.075	0.017	Underexpressed in FP versus FN
CXCL6	-3.072	-3.883	0.018	Underexpressed in FP versus FN
RGS2	-1.111	5.199	0.007	Underexpressed in FP versus FN
ADAMTS20	-2.522	-1.327	0.017	Underexpressed in FP versus FN
PIANP	-1.816	2.234	0.013	Underexpressed in FP versus FN
TLR2	-1.052	2.562	0.012	Underexpressed in FP versus FN
HAPLN4	-1.315	2.766	0.012	Underexpressed in FP versus FN
PRAME	-5.405	4.138	0.013	Underexpressed in FP versus FN
FLRT2	-1.107	5.277	0.007	Underexpressed in FP versus FN
CLIC6	-2.063	-0.243	0.017	Underexpressed in FP versus FN
CNGA3	-2.729	0.566	0.016	Underexpressed in FP versus FN
ADAMTSL3	-1.550	2.809	0.012	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SYT6	-1.915	0.712	0.016	Underexpressed in FP versus FN
LRRC7	-2.473	-1.067	0.018	Underexpressed in FP versus FN
ARNTL2	-1.453	1.953	0.014	Underexpressed in FP versus FN
FAM110C	-2.085	-1.594	0.019	Underexpressed in FP versus FN
TMEM52	-1.738	0.750	0.016	Underexpressed in FP versus FN
LOX	-1.138	5.297	0.008	Underexpressed in FP versus FN
LONRF2	-2.121	0.536	0.017	Underexpressed in FP versus FN
CH25H	-1.965	0.522	0.017	Underexpressed in FP versus FN
KIAA1161	-1.318	1.781	0.014	Underexpressed in FP versus FN
GPR174	-2.090	-2.541	0.020	Underexpressed in FP versus FN
LINC00626	-2.834	-0.349	0.018	Underexpressed in FP versus FN
OAS3	-1.388	4.245	0.009	Underexpressed in FP versus FN
PRSS3	-1.518	-2.110	0.020	Underexpressed in FP versus FN
CRABP2	-1.777	4.203	0.010	Underexpressed in FP versus FN
BTBD19	-1.033	1.703	0.015	Underexpressed in FP versus FN
PTX3	-2.184	0.589	0.017	Underexpressed in FP versus FN
LOXL4	-1.699	3.996	0.010	Underexpressed in FP versus FN
ABCG2	-1.147	1.949	0.014	Underexpressed in FP versus FN
SCUBE2	-1.420	2.738	0.013	Underexpressed in FP versus FN
PRSS8	-1.734	-2.231	0.020	Underexpressed in FP versus FN
MYOZ3	-1.092	1.720	0.015	Underexpressed in FP versus FN
LY6H	-2.756	-0.128	0.019	Underexpressed in FP versus FN
ASTL	-1.640	-2.189	0.021	Underexpressed in FP versus FN
CECR7	-2.800	-0.108	0.019	Underexpressed in FP versus FN
CSF3R	-1.238	2.569	0.013	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
C1RL-AS1	-1.798	0.859	0.017	Underexpressed in FP versus FN
NFKBID	-1.104	1.692	0.016	Underexpressed in FP versus FN
CCDC164	-1.841	-3.166	0.022	Underexpressed in FP versus FN
IGFBP2	-1.178	8.274	0.010	Underexpressed in FP versus FN
LRRIQ1	-2.392	-1.665	0.021	Underexpressed in FP versus FN
SLC7A10	-2.150	-1.986	0.022	Underexpressed in FP versus FN
CXCL2	-1.654	0.015	0.019	Underexpressed in FP versus FN
RASSF2	-1.113	4.320	0.010	Underexpressed in FP versus FN
BOC	-1.056	5.787	0.008	Underexpressed in FP versus FN
NFATC4	-1.108	6.274	0.008	Underexpressed in FP versus FN
KLRC4	-2.138	-3.518	0.023	Underexpressed in FP versus FN
RERGL	-2.325	-2.235	0.022	Underexpressed in FP versus FN
HPSE	-1.324	1.254	0.018	Underexpressed in FP versus FN
AGPAT9	-1.405	1.204	0.018	Underexpressed in FP versus FN
CADM1	-1.215	5.497	0.009	Underexpressed in FP versus FN
PCDH9	-1.601	1.503	0.017	Underexpressed in FP versus FN
LOC100652791	-1.457	0.985	0.018	Underexpressed in FP versus FN
POU2F2	-1.460	3.619	0.012	Underexpressed in FP versus FN
NFKBIZ	-1.088	3.930	0.011	Underexpressed in FP versus FN
TUB	-1.182	5.110	0.009	Underexpressed in FP versus FN
ACOX2	-1.246	1.918	0.016	Underexpressed in FP versus FN
LGI1	-2.591	-2.485	0.023	Underexpressed in FP versus FN
SCNN1A	-2.097	-2.513	0.023	Underexpressed in FP versus FN
C1QL1	-1.695	1.259	0.018	Underexpressed in FP versus FN
LRRC56	-1.156	2.047	0.016	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
ABCA9	-1.837	2.293	0.016	Underexpressed in FP versus FN
WNT5A	-1.327	4.826	0.010	Underexpressed in FP versus FN
KCNK1	-2.364	0.205	0.021	Underexpressed in FP versus FN
PTER	-1.022	2.108	0.016	Underexpressed in FP versus FN
SVEP1	-1.643	4.345	0.011	Underexpressed in FP versus FN
ULBP1	-1.333	0.165	0.022	Underexpressed in FP versus FN
AGR2	-2.382	-5.459	0.026	Underexpressed in FP versus FN
SLC30A8	-2.509	-4.348	0.026	Underexpressed in FP versus FN
CLDN1	-1.927	1.089	0.020	Underexpressed in FP versus FN
PRRG4	-1.929	-1.001	0.024	Underexpressed in FP versus FN
SPON1	-1.169	5.845	0.010	Underexpressed in FP versus FN
FLJ22184	-2.104	1.915	0.018	Underexpressed in FP versus FN
MEGF6	-1.164	5.582	0.010	Underexpressed in FP versus FN
ARAP2	-1.597	1.035	0.021	Underexpressed in FP versus FN
HAL	-1.621	-1.771	0.025	Underexpressed in FP versus FN
ITGA10	-1.472	2.978	0.015	Underexpressed in FP versus FN
B4GALT6	-1.766	1.748	0.019	Underexpressed in FP versus FN
TMPRSS13	-1.985	-1.680	0.026	Underexpressed in FP versus FN
TMEM200A	-1.259	2.801	0.016	Underexpressed in FP versus FN
WIPF3	-1.767	2.621	0.017	Underexpressed in FP versus FN
C17orf96	-1.016	2.607	0.017	Underexpressed in FP versus FN
TAF7L	-1.229	-0.206	0.024	Underexpressed in FP versus FN
CDH17	-1.501	-1.439	0.026	Underexpressed in FP versus FN
PCDH15	-2.820	-0.139	0.025	Underexpressed in FP versus FN
LOC100131320	-2.129	-3.209	0.028	Underexpressed in FP versus FN



## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
PTGFR	-2.618	2.093	0.020	Underexpressed in FP versus FN
KRT40	-3.432	0.171	0.025	Underexpressed in FP versus FN
DDX43	-1.647	-0.404	0.025	Underexpressed in FP versus FN
PTGDR2	-1.446	-0.023	0.024	Underexpressed in FP versus FN
TP63	-1.600	2.605	0.018	Underexpressed in FP versus FN
TXLNB	-1.748	2.780	0.017	Underexpressed in FP versus FN
PCDHB4	-1.100	2.939	0.016	Underexpressed in FP versus FN
KERA	-3.273	-1.908	0.028	Underexpressed in FP versus FN
STK31	-1.492	-1.562	0.027	Underexpressed in FP versus FN
CSTA	-1.605	0.436	0.024	Underexpressed in FP versus FN
CXCL1	-2.128	-1.920	0.028	Underexpressed in FP versus FN
FLJ35946	-1.112	2.653	0.017	Underexpressed in FP versus FN
GAS2L2	-2.015	-4.117	0.030	Underexpressed in FP versus FN
SIAH3	-1.803	-2.140	0.028	Underexpressed in FP versus FN
TINCR	-1.176	0.073	0.025	Underexpressed in FP versus FN
IL1RAP	-1.728	2.565	0.018	Underexpressed in FP versus FN
CHST6	-1.836	1.843	0.021	Underexpressed in FP versus FN
MAP1LC3C	-1.776	0.274	0.025	Underexpressed in FP versus FN
FZD6	-1.442	2.019	0.020	Underexpressed in FP versus FN
PLAC1	-1.481	-0.202	0.026	Underexpressed in FP versus FN
FAM83H	-1.101	3.287	0.016	Underexpressed in FP versus FN
PDE7B	-1.764	2.752	0.018	Underexpressed in FP versus FN
LOC440028	-1.712	-0.172	0.026	Underexpressed in FP versus FN
TSPAN11	-1.077	4.471	0.013	Underexpressed in FP versus FN
DUSP2	-1.360	3.058	0.017	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
HAP1	-1.988	-1.180	0.028	Underexpressed in FP versus FN
SOSTDC1	-3.558	1.321	0.024	Underexpressed in FP versus FN
PDZRN4	-2.673	0.495	0.025	Underexpressed in FP versus FN
GRIA4	-2.493	-0.053	0.026	Underexpressed in FP versus FN
TSPAN8	-2.233	-0.859	0.028	Underexpressed in FP versus FN
LOC100506178	-1.838	-1.896	0.029	Underexpressed in FP versus FN
KCNIP3	-1.406	2.639	0.018	Underexpressed in FP versus FN
SLC6A13	-1.468	-0.025	0.026	Underexpressed in FP versus FN
PDZK1IP1	-2.315	-5.035	0.032	Underexpressed in FP versus FN
EGFLAM	-1.041	2.934	0.017	Underexpressed in FP versus FN
FGF19	-2.538	-5.025	0.032	Underexpressed in FP versus FN
ZMAT1	-1.363	2.465	0.019	Underexpressed in FP versus FN
COCH	-1.750	1.405	0.023	Underexpressed in FP versus FN
ROR2	-1.660	2.381	0.020	Underexpressed in FP versus FN
KLHL14	-3.080	1.203	0.025	Underexpressed in FP versus FN
SAMD9L	-1.318	3.963	0.015	Underexpressed in FP versus FN
LOC440905	-5.632	0.279	0.028	Underexpressed in FP versus FN
MSR1	-1.057	4.203	0.014	Underexpressed in FP versus FN
EPHA3	-1.628	4.468	0.014	Underexpressed in FP versus FN
KLKB1	-1.456	-0.090	0.028	Underexpressed in FP versus FN
KLHL4	-1.684	0.711	0.026	Underexpressed in FP versus FN
EGR1	-1.234	8.030	0.014	Underexpressed in FP versus FN
RHBDL3	-1.474	0.064	0.027	Underexpressed in FP versus FN
CAMKV	-2.359	-0.994	0.030	Underexpressed in FP versus FN
EVA1A	-1.122	1.698	0.023	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SOX2	-2.910	-1.654	0.031	Underexpressed in FP versus FN
RFX2	-1.024	2.798	0.019	Underexpressed in FP versus FN
EHF	-2.523	-2.856	0.033	Underexpressed in FP versus FN
DSC2	-1.726	1.156	0.025	Underexpressed in FP versus FN
NOD2	-1.063	1.279	0.025	Underexpressed in FP versus FN
PHEX	-1.548	-0.268	0.029	Underexpressed in FP versus FN
GPR85	-1.316	0.845	0.026	Underexpressed in FP versus FN
SPRY4	-1.313	6.942	0.013	Underexpressed in FP versus FN
WNK2	-1.162	3.382	0.017	Underexpressed in FP versus FN
WDR17	-1.993	-0.502	0.030	Underexpressed in FP versus FN
SULT4A1	-2.038	1.526	0.025	Underexpressed in FP versus FN
PLCB4	-1.952	3.126	0.020	Underexpressed in FP versus FN
FAM131B	-1.274	0.316	0.028	Underexpressed in FP versus FN
CEACAM1	-1.626	-0.650	0.031	Underexpressed in FP versus FN
LYPD3	-1.378	0.511	0.028	Underexpressed in FP versus FN
STOX1	-1.310	1.195	0.026	Underexpressed in FP versus FN
STK32B	-1.441	3.524	0.018	Underexpressed in FP versus FN
SLC6A15	-3.408	-0.437	0.031	Underexpressed in FP versus FN
TSPAN13	-1.115	3.873	0.017	Underexpressed in FP versus FN
TMEM184A	-1.848	-0.412	0.032	Underexpressed in FP versus FN
CA2	-1.534	2.621	0.022	Underexpressed in FP versus FN
SLFN11	-1.256	3.982	0.017	Underexpressed in FP versus FN
NRG2	-1.589	0.342	0.030	Underexpressed in FP versus FN
SLC5A9	-1.279	0.565	0.029	Underexpressed in FP versus FN
TNFSF13B	-1.132	2.475	0.022	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
OGN	-2.291	4.302	0.017	Underexpressed in FP versus FN
MBP	-1.244	4.210	0.016	Underexpressed in FP versus FN
TACR3	-2.186	-2.771	0.036	Underexpressed in FP versus FN
CHAD	-1.271	0.824	0.029	Underexpressed in FP versus FN
AMPH	-1.735	2.370	0.024	Underexpressed in FP versus FN
CHODL	-2.209	2.841	0.023	Underexpressed in FP versus FN
HRCT1	-1.239	-0.392	0.033	Underexpressed in FP versus FN
TRHDE	-2.545	-0.778	0.035	Underexpressed in FP versus FN
ZNF503	-1.031	4.074	0.017	Underexpressed in FP versus FN
TULP1	-1.585	-1.058	0.036	Underexpressed in FP versus FN
ADH1C	-1.798	-0.865	0.036	Underexpressed in FP versus FN
FAM129A	-1.621	3.920	0.019	Underexpressed in FP versus FN
ISL2	-2.324	-0.936	0.037	Underexpressed in FP versus FN
HORMAD1	-1.974	-3.492	0.042	Underexpressed in FP versus FN
PRICKLE2	-1.043	3.852	0.019	Underexpressed in FP versus FN
LRRK2	-1.297	1.445	0.030	Underexpressed in FP versus FN
TRIM71	-2.383	-1.776	0.040	Underexpressed in FP versus FN
MDK	-1.027	7.970	0.017	Underexpressed in FP versus FN
GJB3	-1.801	-3.036	0.043	Underexpressed in FP versus FN
SAMD3	-1.342	0.234	0.035	Underexpressed in FP versus FN
TFPI2	-1.387	0.539	0.034	Underexpressed in FP versus FN
RASL10B	-1.116	3.164	0.023	Underexpressed in FP versus FN
SLC38A4	-1.643	1.340	0.031	Underexpressed in FP versus FN
BBOX1	-1.525	-1.836	0.041	Underexpressed in FP versus FN
HOXB2	-1.590	3.359	0.023	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CDHR4	-1.724	-3.685	0.045	Underexpressed in FP versus FN
LAMC3	-1.937	3.370	0.023	Underexpressed in FP versus FN
RAG1	-1.182	0.327	0.035	Underexpressed in FP versus FN
SRCRB4D	-1.239	1.098	0.033	Underexpressed in FP versus FN
S100A8	-1.854	-0.097	0.038	Underexpressed in FP versus FN
PFKFB2	-1.041	2.880	0.024	Underexpressed in FP versus FN
NPAS2	-1.286	2.829	0.025	Underexpressed in FP versus FN
LOC440173	-2.419	-0.142	0.038	Underexpressed in FP versus FN
GPIHBP1	-1.316	1.498	0.031	Underexpressed in FP versus FN
CEACAM5	-2.051	-5.574	0.047	Underexpressed in FP versus FN
XKR8	-1.199	2.089	0.029	Underexpressed in FP versus FN
ROR1	-1.230	2.386	0.028	Underexpressed in FP versus FN
TC2N	-2.192	1.304	0.034	Underexpressed in FP versus FN
SORCS2	-1.012	4.757	0.017	Underexpressed in FP versus FN
PALM3	-1.604	1.199	0.034	Underexpressed in FP versus FN
GPR88	-1.636	-1.145	0.042	Underexpressed in FP versus FN
THSD7A	-1.196	2.526	0.028	Underexpressed in FP versus FN
HMX1	-2.468	-2.797	0.046	Underexpressed in FP versus FN
SLC6A16	-1.278	2.790	0.026	Underexpressed in FP versus FN
PAG1	-1.143	4.648	0.018	Underexpressed in FP versus FN
GPC4	-1.071	5.695	0.016	Underexpressed in FP versus FN
DLX5	-1.663	-0.534	0.041	Underexpressed in FP versus FN
SNCA	-2.293	2.713	0.029	Underexpressed in FP versus FN
RAP1GAP	-1.087	3.085	0.025	Underexpressed in FP versus FN
TNN	-1.418	1.089	0.036	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
CACNG8	-1.403	1.010	0.037	Underexpressed in FP versus FN
OBSCN	-1.146	6.705	0.017	Underexpressed in FP versus FN
ATP1B2	-1.152	1.725	0.033	Underexpressed in FP versus FN
SLITRK4	-2.239	2.142	0.033	Underexpressed in FP versus FN
RNF207	-1.140	3.435	0.024	Underexpressed in FP versus FN
OLR1	-1.348	1.616	0.034	Underexpressed in FP versus FN
NIPAL2	-1.234	1.134	0.036	Underexpressed in FP versus FN
PCYT1B	-1.399	2.133	0.032	Underexpressed in FP versus FN
LAYN	-1.097	2.799	0.028	Underexpressed in FP versus FN
FAM124A	-1.159	1.738	0.034	Underexpressed in FP versus FN
OASL	-1.647	1.037	0.038	Underexpressed in FP versus FN
C11orf92	-2.235	-1.079	0.046	Underexpressed in FP versus FN
TGFBR3	-1.132	4.330	0.021	Underexpressed in FP versus FN
GLDC	-1.571	-0.973	0.046	Underexpressed in FP versus FN
KIAA1644	-1.893	1.435	0.037	Underexpressed in FP versus FN
SIGLEC1	-1.167	4.249	0.021	Underexpressed in FP versus FN
LINC00312	-1.016	2.567	0.030	Underexpressed in FP versus FN
HOXD8	-1.327	3.241	0.027	Underexpressed in FP versus FN
ALX1	-2.834	-0.553	0.046	Underexpressed in FP versus FN
FRS2	-1.363	5.807	0.018	Underexpressed in FP versus FN
FPR1	-1.352	0.880	0.040	Underexpressed in FP versus FN
SERPINA1	-1.368	2.215	0.033	Underexpressed in FP versus FN
FAM124B	-1.069	0.284	0.043	Underexpressed in FP versus FN
TNFSF8	-1.374	0.718	0.041	Underexpressed in FP versus FN
PRR16	-1.308	1.356	0.038	Underexpressed in FP versus FN

### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
GPR63	-1.666	1.606	0.037	Underexpressed in FP versus FN
TTYH1	-1.156	-0.162	0.045	Underexpressed in FP versus FN
ADAMTS19	-2.314	-1.046	0.049	Underexpressed in FP versus FN
SCN3B	-1.492	5.704	0.019	Underexpressed in FP versus FN
CXorf57	-2.252	2.257	0.035	Underexpressed in FP versus FN
APOBEC3F	-1.319	1.162	0.041	Underexpressed in FP versus FN
HIST1H2BK	-1.224	3.129	0.029	Underexpressed in FP versus FN
TFPI	-1.109	4.370	0.023	Underexpressed in FP versus FN
DOK5	-1.271	0.637	0.044	Underexpressed in FP versus FN
OLFM4	-1.164	0.600	0.044	Underexpressed in FP versus FN
HPDL	-1.253	0.927	0.043	Underexpressed in FP versus FN
DYNC111	-2.239	2.501	0.035	Underexpressed in FP versus FN
PLEKHA6	-1.135	4.481	0.023	Underexpressed in FP versus FN
COL4A5	-1.740	4.319	0.025	Underexpressed in FP versus FN
C3orf72	-2.527	0.215	0.048	Underexpressed in FP versus FN
FST	-1.796	3.301	0.031	Underexpressed in FP versus FN
DIO3	-1.776	1.436	0.043	Underexpressed in FP versus FN
SLC9A3R1	-1.221	3.259	0.030	Underexpressed in FP versus FN
CEBPD	-1.221	5.187	0.022	Underexpressed in FP versus FN
SLC4A8	-1.484	0.900	0.046	Underexpressed in FP versus FN
IGF2BP3	-1.612	5.193	0.022	Underexpressed in FP versus FN
CYP2W1	-1.519	0.684	0.047	Underexpressed in FP versus FN
SP9	-1.410	0.658	0.048	Underexpressed in FP versus FN
LOC100505702	-1.072	0.756	0.047	Underexpressed in FP versus FN
IGF1	-1.483	3.766	0.029	Underexpressed in FP versus FN

## Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
MECOM	-1.063	2.640	0.036	Underexpressed in FP versus FN
TM6SF2	-1.089	1.798	0.042	Underexpressed in FP versus FN
COL9A1	-1.467	3.909	0.029	Underexpressed in FP versus FN
SP140L	-1.050	2.281	0.039	Underexpressed in FP versus FN
ALDH1A1	-1.470	3.084	0.034	Underexpressed in FP versus FN
SLC41A2	-1.017	1.038	0.048	Underexpressed in FP versus FN
KIAA1211L	-1.016	2.500	0.039	Underexpressed in FP versus FN
KIAA1244	-1.927	1.418	0.049	Underexpressed in FP versus FN
EPHA4	-1.407	3.973	0.030	Underexpressed in FP versus FN
KCNJ2	-1.111	2.255	0.042	Underexpressed in FP versus FN
C21orf7	-1.238	3.827	0.031	Underexpressed in FP versus FN
HMGA1	-1.028	5.840	0.024	Underexpressed in FP versus FN
P2RY1	-1.147	1.420	0.049	Underexpressed in FP versus FN
BST2	-1.243	4.668	0.028	Underexpressed in FP versus FN
ALPK2	-1.485	3.820	0.033	Underexpressed in FP versus FN
CELSR1	-1.212	3.308	0.035	Underexpressed in FP versus FN
SLC11A1	-1.039	1.937	0.047	Underexpressed in FP versus FN
SMOC2	-1.107	5.418	0.025	Underexpressed in FP versus FN
COLEC11	-1.029	1.719	0.050	Underexpressed in FP versus FN
ADAM28	-1.066	2.523	0.043	Underexpressed in FP versus FN
GPR64	-1.712	2.509	0.045	Underexpressed in FP versus FN
PRRT4	-1.108	4.247	0.031	Underexpressed in FP versus FN
AFF3	-1.196	4.312	0.031	Underexpressed in FP versus FN
KIAA1377	-1.046	2.102	0.048	Underexpressed in FP versus FN
LRRN3	-1.355	2.735	0.044	Underexpressed in FP versus FN



### Supplementary Table 10 (continued)

Symbol	Log2.Fold.Change	Log2.AveExpr	Adjusted.P.value	Category
SIX2	-1.255	5.180	0.028	Underexpressed in FP versus FN
LRRC17	-1.266	3.938	0.035	Underexpressed in FP versus FN
ALS2CL	-1.261	3.215	0.041	Underexpressed in FP versus FN
ZDHHC2	-1.258	3.046	0.043	Underexpressed in FP versus FN
DTNA	-1.191	3.324	0.041	Underexpressed in FP versus FN
OSMR	-1.089	3.580	0.041	Underexpressed in FP versus FN
HHIP	-1.512	2.793	0.049	Underexpressed in FP versus FN
CREB3L1	-1.257	4.076	0.038	Underexpressed in FP versus FN
FIBIN	-1.293	3.903	0.040	Underexpressed in FP versus FN
SLC38A5	-1.277	4.129	0.038	Underexpressed in FP versus FN
PRKXP1	-1.110	3.007	0.048	Underexpressed in FP versus FN
ST6GALNAC5	-1.470	4.129	0.041	Underexpressed in FP versus FN
STEAP4	-1.210	3.227	0.049	Underexpressed in FP versus FN
SCARA3	-1.691	3.909	0.047	Underexpressed in FP versus FN
COL2A1	-1.314	6.376	0.038	Underexpressed in FP versus FN
PROM1	-1.236	6.005	0.041	Underexpressed in FP versus FN
PCOLCE	-1.030	6.223	0.042	Underexpressed in FP versus FN
ELN	-1.252	6.753	0.049	Underexpressed in FP versus FN