

Figure S1. Principal component analysis plot of molecular signatures of OS and control samples. The colors indicate the sample groups; red indicates BM-MSCs (controls) and blue indicates the OS samples. Shapes indicate clustering of the samples. PC1, principal component cluster 1; PC2, principal component cluster 2; OS, osteosarcoma; NA, not available; BM-MSCs, bone marrow mesenchymal stromal cells.

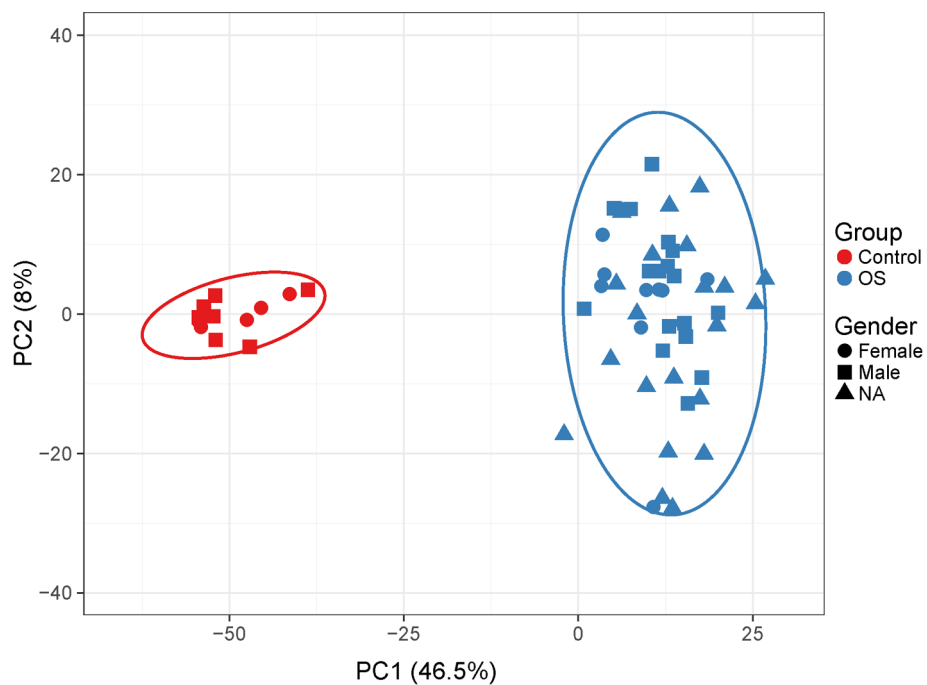


Figure S2. Analysis of network topology for various soft-thresholding powers. The left-hand panel shows the scale-free fit index (y-axis) as a function of the soft thresholding power (x-axis). The right-hand panel shows the mean connectivity (degree, y-axis) as a function of the soft thresholding power (x-axis). Power 12 is the lowest power for the fit index reaching a high value close to 0.9 but with reasonable connectivity.

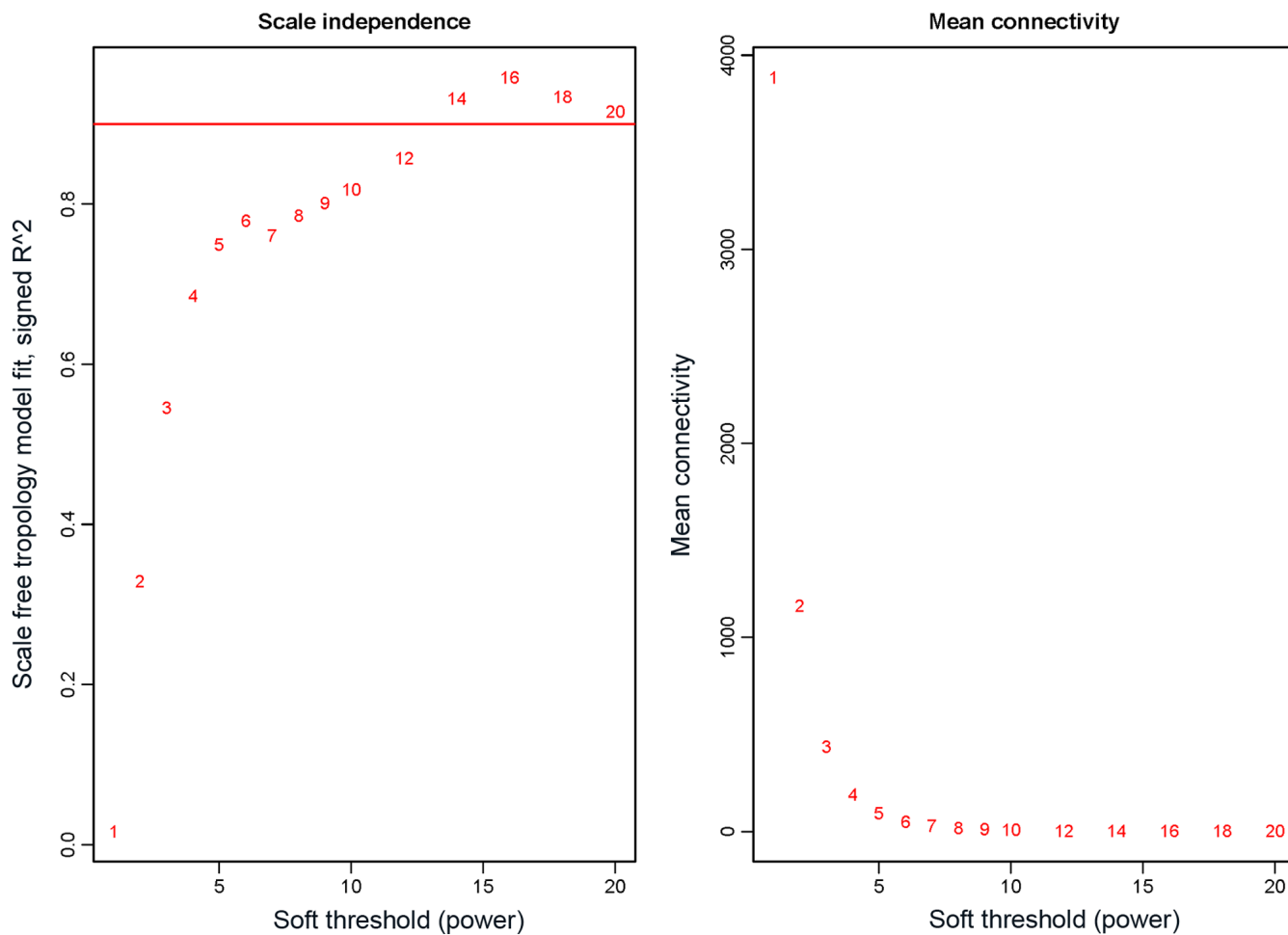


Figure S3. Tumor-infiltrating immune cell profiles in osteosarcoma. NK, natural killer; RMSE, root-mean-squared error.

Input Sample	B cells naive	B cells memory	Plasma cells	T cells CD8	T cells CD4 naive	T cells CD4 memory resting	T cells CD4 memory activated	T cells follicular helper	T cells regulatory (Treg)	T cells gamma delta	NK cells resting	NK cells activated	Monocyte M0	Macrophage M1	Macrophage M2	Dendritic cell resting	Dendritic cell activated	Mast cell resting	Mast cell activated	Eosinophil	Neutrophil	Value	Pearson Correlation	RMSE		
GSM2311314	0.005	0.045	0.027	0	0.029	0.109	0	0.012	0.003	0	0.038	0	0.027	0.224	0.04	0	0	0.038	0	0.013	0.003	0.000	0.636	0.786		
GSM2311315	0	0.035	0.003	0	0	0.077	0.012	0.003	0	0.031	0	0.011	0	0.142	0.046	0.018	0	0.14	0	0.009	0	0.000	0.580	0.821		
GSM2311316	0	0.017	0.038	0	0.024	0.081	0	0.012	0	0.104	0	0.059	0	0.219	0.09	0.213	0	0.032	0.021	0.033	0	0.000	0.486	0.873		
GSM2311317	0.032	0.156	0.076	0	0.08	0.199	0.012	0.064	0	0.075	0	0.001	0	0.055	0.06	0.124	0	0.022	0.036	0	0.007	0.000	0.603	0.814		
GSM2311318	0	0.013	0	0	0	0.047	0	0.04	0	0.024	0	0.015	0	0.32	0.028	0	0.026	0	0.026	0	0	0.009	0.000	0.687	0.737	
GSM2311319	0	0.029	0	0.016	0	0.163	0.01	0	0	0.009	0	0	0	0.106	0.05	0.049	0.053	0	0.026	0.035	0.006	0.000	0.497	0.868		
GSM2311340	0	0.095	0.102	0	0	0.194	0	0	0	0.041	0.012	0	0	0	0.057	0.215	0	0.009	0.201	0	0	0.015	0.002	0.343	0.941	
GSM2311341	0	0.032	0.021	0.235	0	0	0.014	0.041	0	0.18	0	0.083	0	0	0.062	0.268	0	0	0.013	0.015	0.035	0.012	0.003	0.328	0.960	
GSM2311342	0	0.105	0.067	0	0.044	0.141	0.02	0	0	0.083	0	0.03	0	0.1	0.058	0.241	0	0	0.112	0	0	0	0.001	0.396	0.917	
GSM2311343	0.008	0	0.001	0.015	0.016	0	0.099	0	0	0.022	0	0.016	0	0.030	0.014	0.118	0	0	0.001	0.029	0.014	0	0	0.000	0.717	0.709
GSM2311344	0.001	0	0.001	0	0.083	0.136	0	0	0	0.014	0.015	0	0	0.030	0.014	0.162	0.054	0.014	0.026	0.042	0	0.015	0.000	0.535	0.845	
GSM2311345	0.006	0.015	0.138	0.063	0	0.103	0.008	0.016	0	0.092	0	0.028	0	0.084	0.099	0.117	0.007	0	0.041	0	0.011	0.006	0.000	0.636	0.797	
GSM2311346	0	0.009	0.019	0	0.02	0.045	0.001	0	0.006	0.052	0	0.046	0	0.332	0.082	0.117	0	0	0.068	0	0.016	0.024	0.001	0.370	0.917	
GSM2311347	0	0.045	0.009	0.127	0	0	0.016	0.05	0	0.178	0	0.022	0	0.329	0.069	0.119	0.001	0	0	0.026	0	0	0.000	0.528	0.851	
GSM2311348	0	0.017	0.001	0.139	0	0.017	0.017	0.053	0	0.144	0	0.051	0	0.097	0.104	0.148	0	0	0.059	0	0.006	0.000	0.583	0.819		
GSM2311349	0	0.024	0.051	0.031	0.015	0.013	0.057	0.017	0	0.069	0	0.031	0	0.235	0.087	0.148	0	0.017	0	0.059	0.001	0.006	0.000	0.695	0.746	
GSM2311350	0	0.011	0.000	0	0	0.026	0	0.06	0	0.014	0.006	0	0	0.356	0.021	0.117	0	0	0.034	0	0	0.013	0.000	0.504	0.866	
GSM2311351	0.019	0	0	0	0.003	0.085	0	0	0	0.026	0.006	0	0.006	0.299	0.029	0.066	0	0	0.049	0	0	0.022	0.000	0.685	0.729	
GSM2311352	0.012	0	0	0	0.056	0.093	0	0	0	0.029	0	0.055	0	0.303	0.022	0.117	0.027	0	0.061	0.101	0	0.006	0.000	0.608	0.801	
GSM2311353	0.002	0	0.026	0.040	0.023	0.023	0.022	0.01	0	0.061	0	0.004	0	0.179	0.04	0.117	0.001	0	0.008	0.019	0	0.010	0.000	0.703	0.733	
GSM2311354	0.005	0	0	0.011	0.135	0.209	0	0	0.043	0	0.043	0	0.014	0.104	0.014	0	0	0.069	0	0	0	0.000	0.683	0.747		
GSM231114	0	0.028	0.115	0.225	0	0.06	0.051	0.014	0.098	0	0.088	0	0.088	0.059	0.052	0.15	0	0	0.056	0	0.010	0.000	0.597	0.810		
GSM231115	0	0.126	0.067	0.003	0	0.095	0.02	0.043	0.038	0	0	0	0	0.22	0.088	0.119	0	0	0.053	0.008	0.023	0.001	0.400	0.918		
GSM231116	0	0.042	0	0	0	0.097	0	0.077	0	0.04	0	0.015	0	0.227	0.061	0.117	0.011	0	0.038	0.043	0	0	0.000	0.652	0.770	
GSM231117	0.03	0	0.003	0	0	0.178	0.011	0.007	0	0.049	0	0.058	0.014	0	0.073	0.007	0.006	0	0.062	0.002	0.008	0.009	0.263	0.984		
GSM231118	0.021	0.027	0	0	0.015	0.047	0.033	0.037	0	0.045	0	0	0	0.044	0.042	0.117	0.011	0	0.046	0	0.029	0.000	0.706	0.733		
GSM231119	0	0.043	0.015	0	0.061	0.063	0.22	0	0	0.022	0.027	0	0	0.249	0.023	0.177	0	0	0.1	0	0	0.000	0.583	0.826		
GSM231120	0	0.025	0	0	0	0.094	0	0.004	0	0.008	0	0.023	0	0.23	0.038	0.117	0	0	0.07	0.02	0	0.01	0.000	0.697	0.738	
GSM231121	0.012	0	0.004	0	0.037	0.105	0.053	0	0	0.003	0.006	0	0	0.313	0.025	0.117	0.01	0	0.045	0	0	0.000	0.705	0.729		
GSM231122	0	0.052	0	0	0.062	0.163	0	0	0	0	0.016	0	0	0.249	0.035	0.117	0.016	0.001	0	0.039	0.001	0	0.000	0.648	0.777	
GSM231123	0	0.021	0	0	0	0.028	0	0.017	0.002	0	0	0.012	0	0.111	0.027	0.117	0	0	0.033	0.004	0	0.004	0.000	0.794	0.625	
GSM231124	0	0.02	0.008	0	0.02	0.072	0.041	0	0	0.06	0	0.001	0	0.111	0.052	0.117	0	0	0.056	0	0	0.003	0.000	0.692	0.744	
GSM231125	0	0.088	0.219	0.076	0	0.12	0.014	0	0.043	0	0	0	0	0.11	0.084	0.156	0.006	0	0.024	0	0	0	0.000	0.622	0.767	
GSM231126	0	0.015	0	0	0.122	0.015	0.004	0.01	0.081	0	0.068	0	0	0.101	0.015	0.117	0	0	0.125	0	0	0.000	0.537	0.843		
GSM231127	0	0.045	0.016	0.053	0	0.038	0	0	0.024	0	0	0.015	0	0.129	0.046	0.117	0.013	0	0.089	0	0	0.000	0.459	0.890		
GSM231128	0.038	0.012	0	0	0.015	0.145	0	0	0.019	0	0	0	0	0.212	0.019	0.117	0.012	0	0.134	0.006	0.04	0.000	0.646	0.777		
GSM231129	0.057	0	0.006	0.008	0	0.006	0.011	0.005	0.073	0.014	0	0	0	0.001	0.01	0.117	0	0	0.048	0	0	0.000	0.580	0.814		
GSM231130	0	0.031	0	0	0.009	0.036	0.027	0	0	0.025	0.008	0	0.003	0.263	0.021	0.117	0	0	0.025	0	0	0.013	0.000	0.686	0.737	
GSM231131	0	0.023	0	0	0	0.092	0.003	0.003	0	0.006	0.01	0	0	0.01	0.018	0.117	0	0.009	0.015	0.004	0	0.010	0.000	0.775	0.652	
GSM231132	0.013	0.015	0.006	0	0.025	0.143	0.015	0	0	0.009	0	0.021	0	0.168	0.035	0.117	0	0	0.01	0	0	0	0.000	0.671	0.756	
GSM231133	0	0.085	0	0	0	0.154	0	0.006	0	0.028	0	0.044	0	0.237	0.041	0.117	0	0	0.02	0.021	0	0.016	0.000	0.641	0.784	
GSM231134	0.02	0	0	0	0.008	0.164	0	0	0.027	0	0.028	0	0	0.15	0.037	0.117	0	0	0.065	0.007	0	0	0.000	0.585	0.817	
GSM231135	0	0.113	0.006	0	0	0.079	0	0.003	0.021	0.042	0	0.015	0	0.001	0.015	0.117	0	0	0.043	0	0	0.000	0.532	0.847		
GSM231136	0.037	0.015	0	0	0.161	0.033	0	0	0.04	0	0.025	0	0	0.002	0.022	0.117	0	0	0.046	0.029	0.019	0.039	0.002	0.338	0.947	
GSM231137	0	0.047	0.007	0	0.019	0.013	0	0.013	0	0.06	0	0.006	0	0.08	0.026	0.117	0	0	0.046	0.029	0.019	0.039	0.002	0.396	0.904	
GSM231138	0	0.11	0	0	0	0.063	0.053	0.003	0	0.006	0	0.042	0	0.17	0.04	0.249	0	0	0.009	0.052	0	0	0.012	0.114	0.919	
GSM231139	0	0.07	0.006	0	0	0.043	0	0.054	0.007	0.028	0	0	0	0.131	0.01	0.117	0	0.01	0	0	0	0.000	0.706	0.729		
GSM231140	0	0.055	0.007	0	0.022	0.027	0.031	0	0	0.001	0.052	0.025	0	0.001	0.011	0.204	0	0	0.035	0.002	0.075	0.000	0.753	0.684		
GSM235019	0	0	0.104	0.009	0.023	0.21	0	0	0.163	0	0.087	0.054	0	0.167	0.027	0.077	0.077	0	0.069	0	0	0.000	0.111	0.062	1.067	
GSM235020	0.016	0	0.091	0.240	0	0.112	0	0.007	0.036	0.014	0	0.135	0	0.184	0.034	0.041	0.033	0	0.019	0	0.044	0.000	0.153	0.091	1.073	
GSM235021	0.23	0	0	0	0.016	0	0	0.006	0.045	0	0	0	0	0.113	0.016	0.122	0.063	0	0.093	0	0	0.000	0.509	0.022	1.103	
GSM84605	0.092	0.096	0.099	0	0	0.112	0	0	0	0	0.111	0.009	0.069	0.128	0.024	0	0	0	0.039	0	0	0	0.000	0.104	1.119	1.050
GSM84606	0.293	0	0	0	0	0.112	0	0	0.041	0.016	0.062	0	0	0.095	0.061	0	0	0	0.109	0	0	0.023	0.026	0.020	1.091	
GSM84607	0.093	0.018	0.013	0	0.103	0.11	0	0	0	0.006	0															

Table SI. Characteristics of included individuals and download links.

Group	GSM_No	GEO_accession	Gender	Age, years	Histotype	Response to preoperative chemotherapy	Supplementary_file
OS	GSM2331334	GSE87437	NA	16	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331334/GSM2331334_supp1/GSM2331334_itcc0071.cel.gz
OS	GSM2331335	GSE87437	NA	17	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331335/GSM2331335_supp1/GSM2331335_itcc0074.cel.gz
OS	GSM2331336	GSE87437	NA	15	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331336/GSM2331336_supp1/GSM2331336_itcc0076.cel.gz
OS	GSM2331337	GSE87437	NA	14	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331337/GSM2331337_supp1/GSM2331337_itcc0077.cel.gz
OS	GSM2331338	GSE87437	NA	12	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331338/GSM2331338_itcc0078.cel.gz
OS	GSM2331339	GSE87437	NA	15	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331339/GSM2331339_itcc0079.cel.gz
OS	GSM2331340	GSE87437	NA	9	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331340/GSM2331340_itcc0081.cel.gz
OS	GSM2331341	GSE87437	NA	9	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331341/GSM2331341_itcc0085.cel.gz
OS	GSM2331342	GSE87437	NA	14	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331342/GSM2331342_itcc0087.cel.gz
OS	GSM2331343	GSE87437	NA	13	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331343/GSM2331343_itcc0090.cel.gz
OS	GSM2331344	GSE87437	NA	8	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331344/GSM2331344_itcc0091.cel.gz
OS	GSM2331345	GSE87437	NA	5	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331345/GSM2331345_itcc0094.cel.gz
OS	GSM2331346	GSE87437	NA	20	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331346/GSM2331346_itcc0099.cel.gz
OS	GSM2331347	GSE87437	NA	22	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331347/GSM2331347_itcc0486.cel.gz
OS	GSM2331348	GSE87437	NA	19	Fibroblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331348/GSM2331348_itcc0488.cel.gz
OS	GSM2331349	GSE87437	NA	15	Telangiectatic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331349/GSM2331349_itcc0493.cel.gz
OS	GSM2331350	GSE87437	NA	18	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331350/GSM2331350_itcc0495.cel.gz
OS	GSM2331351	GSE87437	NA	14	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331351/GSM2331351_itcc0499.cel.gz
OS	GSM2331352	GSE87437	NA	11	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331352/GSM2331352_itcc0500.cel.gz

Table SI. Continued.

Group	GSM_No	GEO_accession	Gender	Age, years	Histotype	Response to preoperative chemotherapy	Supplementary_file
OS	GSM2331353	GSE87437	NA	22	Telangiectatic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331353/GSM2331353_supp/GSM2331353_itcc0503.cel.gz
OS	GSM2331354	GSE87437	NA	15	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2331354/GSM2331354_supp/GSM2331354_itcc0505.cel.gz
OS	GSM371114	GSE14827	Male	19	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371114/GSM371114_supp/GSM371114.CEL.gz
OS	GSM371115	GSE14827	Female	9	Telangiectatic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371115/GSM371115_supp/GSM371115.CEL.gz
OS	GSM371116	GSE14827	Female	13	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371116/GSM371116_supp/GSM371116.CEL.gz
OS	GSM371117	GSE14827	Male	14	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371117/GSM371117_supp/GSM371117.CEL.gz
OS	GSM371118	GSE14827	Male	12	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371118/GSM371118_supp/GSM371118.CEL.gz
OS	GSM371119	GSE14827	Female	14	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371119/GSM371119_supp/GSM371119.CEL.gz
OS	GSM371120	GSE14827	Male	13	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371120/GSM371120_supp/GSM371120.CEL.gz
OS	GSM371121	GSE14827	Male	19	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371121/GSM371121_supp/GSM371121.CEL.gz
OS	GSM371122	GSE14827	Female	15	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371122/GSM371122_supp/GSM371122.CEL.gz
OS	GSM371123	GSE14827	Female	9	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371123/GSM371123_supp/GSM371123.CEL.gz
OS	GSM371124	GSE14827	Male	19	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371124/GSM371124_supp/GSM371124.CEL.gz
OS	GSM371125	GSE14827	Female	19	Fibroblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371125/GSM371125_supp/GSM371125.CEL.gz
OS	GSM371126	GSE14827	Male	18	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371126/GSM371126_supp/GSM371126.CEL.gz
OS	GSM371127	GSE14827	Male	21	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371127/GSM371127_supp/GSM371127.CEL.gz
OS	GSM371128	GSE14827	Male	18	Chondroblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371128/GSM371128_supp/GSM371128.CEL.gz
OS	GSM371129	GSE14827	Male	14	Chondroblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371129/GSM371129_supp/GSM371129.CEL.gz
OS	GSM371130	GSE14827	Male	8	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM371130/GSM371130_supp/GSM371130.CEL.gz

Table SI. Continued.

Group	GSM_No	GEO_accession	Gender	Age, years	Histotype	Response to preoperative chemotherapy	Supplementary_file
OS	GSM371131	GSE14827	Male	24	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371131/suppl/GSM371131.CEL.gz
OS	GSM371132	GSE14827	Female	8	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371132/suppl/GSM371132.CEL.gz
OS	GSM371133	GSE14827	Male	14	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371133/suppl/GSM371133.CEL.gz
OS	GSM371134	GSE14827	Female	38	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371134/suppl/GSM371134.CEL.gz
OS	GSM371135	GSE14827	Male	12	Chondroblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371135/suppl/GSM371135.CEL.gz
OS	GSM371136	GSE14827	Female	20	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371136/suppl/GSM371136.CEL.gz
OS	GSM371137	GSE14827	Male	16	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371137/suppl/GSM371137.CEL.gz
OS	GSM371138	GSE14827	Male	25	Osteoblastic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371138/suppl/GSM371138.CEL.gz
OS	GSM371139	GSE14827	Female	15	Telangiectatic	Good	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371139/suppl/GSM371139.CEL.gz
OS	GSM371140	GSE14827	Male	13	Osteoblastic	Poor	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM3711nnn/GSM371140/suppl/GSM371140.CEL.gz
Control	GSM250019	GSE18043	Male	67	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2500nnn/GSM250019/suppl/GSM250019.CEL.gz
Control	GSM250020	GSE18043	Male	72	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2500nnn/GSM250020/suppl/GSM250020.CEL.gz
Control	GSM250021	GSE18043	Female	74	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2500nnn/GSM250021/suppl/GSM250021.CEL.gz
Control	GSM894405	GSE36474	Female	50	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8944nnn/GSM894405/suppl/GSM894405_HD1.CEL.gz
Control	GSM894406	GSE36474	Female	45	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8944nnn/GSM894406/suppl/GSM894406_HD2.CEL.gz
Control	GSM894407	GSE36474	Male	58	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8944nnn/GSM894407/suppl/GSM894407_HD3.CEL.gz
Control	GSM866168	GSE35331	Male	55	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8666nnn/GSM866168/suppl/GSM866168_HD-MS1.CEL.gz
Control	GSM866169	GSE35331	Male	53	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8666nnn/GSM866169/suppl/GSM866169_HD-MS2.CEL.gz
Control	GSM866170	GSE35331	Male	30	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM8666nnn/GSM866170/suppl/GSM866170_HD-MS3.CEL.gz

Table SI. Continued.

Group	GSM_No	GEO_accession	Gender	Age, years	Histotype	Response to preoperative chemotherapy	Supplementary_file
Control	GSM866171	GSE35331	Female	68	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM866171/HD-MSC4.CEL.gz
Control	GSM866172	GSE35331	Male	53	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM866172/HD-MSC5.CEL.gz
Control	GSM866173	GSE35331	Female	78	NA	NA	ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM866173/HD-MSC6.CEL.gz

OS, osteosarcoma; NA, not available.

Table SII. Full list of DEGs identified in OS.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>CPE</i>	6.01	9.77	13.95	1.40x10 ⁻²⁰	8.46x10 ⁻¹⁷	36.52
<i>MMP9</i>	5.96	10.45	9.99	1.95x10 ⁻¹⁴	2.20x10 ⁻¹¹	22.57
<i>SPARCL1</i>	5.93	8.60	13.18	1.91x10 ⁻¹⁹	8.97x10 ⁻¹⁶	33.95
<i>SI00A4</i>	5.92	10.98	23.45	4.21x10 ⁻³²	2.97x10 ⁻²⁷	62.16
<i>CA2</i>	5.60	8.08	9.62	8.05x10 ⁻¹⁴	7.64x10 ⁻¹¹	21.17
<i>COL15A1</i>	5.29	8.75	12.64	1.21x10 ⁻¹⁸	4.67x10 ⁻¹⁵	32.13
<i>ACP5</i>	5.19	9.01	7.89	7.07x10 ⁻¹¹	2.87x10 ⁻⁰⁸	14.48
<i>CIQC</i>	5.18	8.93	16.32	7.49x10 ⁻²⁴	9.91x10 ⁻²⁰	43.89
<i>MMP13</i>	5.17	8.91	6.80	5.23x10 ⁻⁰⁹	1.22x10 ⁻⁰⁶	10.24
<i>MRC1</i>	5.00	7.55	15.24	2.11x10 ⁻²²	1.86x10 ⁻¹⁸	40.63
<i>CIQA</i>	4.93	8.47	13.62	4.13x10 ⁻²⁰	2.19x10 ⁻¹⁶	35.45
<i>TYROBP</i>	4.92	9.02	16.60	3.21x10 ⁻²⁴	5.25x10 ⁻²⁰	44.72
<i>IBSP</i>	4.76	9.05	5.79	2.69x10 ⁻⁰⁷	3.79x10 ⁻⁰⁵	6.37
<i>OMD</i>	4.75	7.74	7.11	1.56x10 ⁻⁰⁹	4.26x10 ⁻⁰⁷	11.43
<i>ASPEN</i>	4.65	7.80	5.86	2.01x10 ⁻⁰⁷	2.96x10 ⁻⁰⁵	6.65
<i>CIQB</i>	4.64	7.96	13.63	4.04x10 ⁻²⁰	2.19x10 ⁻¹⁶	35.48
<i>CD14</i>	4.46	8.57	13.63	4.03x10 ⁻²⁰	2.19x10 ⁻¹⁶	35.48
<i>CPVL</i>	4.41	7.28	13.00	3.54x10 ⁻¹⁹	1.56x10 ⁻¹⁵	33.34
<i>PANX3</i>	4.37	6.83	4.78	1.15x10 ⁻⁰⁵	9.29x10 ⁻⁰⁴	2.71
<i>LAPTM5</i>	4.32	9.50	16.59	3.23x10 ⁻²⁴	5.25x10 ⁻²⁰	44.71
<i>APCDD1</i>	4.28	8.10	8.41	9.08x10 ⁻¹²	4.80x10 ⁻⁰⁹	16.50
<i>ADGRF5</i>	4.25	7.53	15.59	7.09x10 ⁻²³	8.34x10 ⁻¹⁹	41.70
<i>GPR34</i>	4.24	7.10	13.96	1.35x10 ⁻²⁰	8.40x10 ⁻¹⁷	36.55
<i>DPT</i>	4.22	8.26	8.26	1.65x10 ⁻¹¹	8.03x10 ⁻⁰⁹	15.91
<i>IFI27</i>	4.18	8.61	9.18	4.44x10 ⁻¹³	3.52x10 ⁻¹⁰	19.49
<i>HLA-DRA</i>	4.17	9.96	9.69	6.23x10 ⁻¹⁴	6.25x10 ⁻¹¹	21.43
<i>SPP1</i>	4.16	7.44	13.58	4.74x10 ⁻²⁰	2.45x10 ⁻¹⁶	35.32
<i>HEY1</i>	4.16	8.75	10.56	2.27x10 ⁻¹⁵	3.30x10 ⁻¹²	24.70
<i>EGFL6</i>	4.12	7.23	5.30	1.69x10 ⁻⁰⁶	1.82x10 ⁻⁰⁴	4.58
<i>OGN</i>	4.10	6.88	4.94	6.56x10 ⁻⁰⁶	5.74x10 ⁻⁰⁴	3.26
<i>EVI2A</i>	4.10	8.54	14.95	5.24x10 ⁻²²	3.97x10 ⁻¹⁸	39.74
<i>SLC40A1</i>	4.07	8.26	18.43	1.56x10 ⁻²⁶	4.13x10 ⁻²²	49.89
<i>PRSS35</i>	4.06	7.37	7.09	1.69x10 ⁻⁰⁹	4.58x10 ⁻⁰⁷	11.35
<i>CXCR4</i>	4.03	7.85	15.45	1.10x10 ⁻²²	1.23x10 ⁻¹⁸	41.26
<i>CD93</i>	4.02	8.06	16.86	1.45x10 ⁻²⁴	3.08x10 ⁻²⁰	45.48
<i>CA3</i>	4.02	6.61	4.79	1.11x10 ⁻⁰⁵	9.00x10 ⁻⁰⁴	2.75
<i>MS4A7</i>	3.96	7.33	13.29	1.29x10 ⁻¹⁹	6.45x10 ⁻¹⁶	34.34
<i>HBB</i>	3.95	8.72	7.74	1.26x10 ⁻¹⁰	4.73x10 ⁻⁰⁸	13.91
<i>LPL</i>	3.90	8.14	8.98	9.59x10 ⁻¹³	6.86x10 ⁻¹⁰	18.73
<i>RNASE6</i>	3.87	7.11	12.54	1.74x10 ⁻¹⁸	6.04x10 ⁻¹⁵	31.78
<i>GIMAP2</i>	3.81	6.60	10.70	1.37x10 ⁻¹⁵	2.09x10 ⁻¹²	25.20
<i>FCER1G</i>	3.80	7.87	10.54	2.51x10 ⁻¹⁵	3.53x10 ⁻¹²	24.60
<i>MPEG1</i>	3.79	7.24	11.78	2.54x10 ⁻¹⁷	6.64x10 ⁻¹⁴	29.13
<i>LYZ</i>	3.78	7.19	9.30	2.84x10 ⁻¹³	2.36x10 ⁻¹⁰	19.93
<i>MAFB</i>	3.77	10.24	15.37	1.40x10 ⁻²²	1.48x10 ⁻¹⁸	41.03
<i>ANO5</i>	3.76	7.48	5.82	2.40x10 ⁻⁰⁷	3.44x10 ⁻⁰⁵	6.48
<i>MXRA5</i>	3.75	10.54	9.86	3.24x10 ⁻¹⁴	3.45x10 ⁻¹¹	22.07
<i>CTSH</i>	3.72	8.69	12.79	7.11x10 ⁻¹⁹	2.91x10 ⁻¹⁵	32.66
<i>SNX10</i>	3.68	7.24	10.02	1.77x10 ⁻¹⁴	2.00x10 ⁻¹¹	22.67

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>AQP1</i>	3.60	7.86	11.41	9.81x10 ⁻¹⁷	2.19x10 ⁻¹³	27.80
<i>ZNF521</i>	3.59	6.64	8.09	3.24x10 ⁻¹¹	1.45x10 ⁻⁰⁸	15.25
<i>FXVD6</i>	3.59	8.23	9.60	8.91x10 ⁻¹⁴	8.42x10 ⁻¹¹	21.07
<i>LRRN1</i>	3.58	6.26	6.45	2.07x10 ⁻⁰⁸	4.06x10 ⁻⁰⁶	8.88
<i>MAMDC2</i>	3.58	7.53	7.04	2.05x10 ⁻⁰⁹	5.46x10 ⁻⁰⁷	11.16
<i>PCDH17</i>	3.58	7.40	14.48	2.46x10 ⁻²¹	1.79x10 ⁻¹⁷	38.22
<i>F13A1</i>	3.58	7.83	8.24	1.75x10 ⁻¹¹	8.47x10 ⁻⁰⁹	15.86
<i>SP7</i>	3.55	7.85	5.74	3.27x10 ⁻⁰⁷	4.47x10 ⁻⁰⁵	6.18
<i>IGDCC4</i>	3.54	7.21	10.33	5.47x10 ⁻¹⁵	6.94x10 ⁻¹²	23.83
<i>MAGEA6</i>	3.52	6.16	4.49	3.25x10 ⁻⁰⁵	2.26x10 ⁻⁰³	1.71
<i>GGTA1P</i>	3.47	7.17	11.30	1.45x10 ⁻¹⁶	2.93x10 ⁻¹³	27.41
<i>CD163</i>	3.46	7.10	11.74	2.97x10 ⁻¹⁷	7.57x10 ⁻¹⁴	28.98
<i>ITM2A</i>	3.42	7.42	9.17	4.61x10 ⁻¹³	3.61x10 ⁻¹⁰	19.45
<i>FGL2</i>	3.41	7.07	9.77	4.61x10 ⁻¹⁴	4.79x10 ⁻¹¹	21.72
<i>FAT3</i>	3.41	6.65	7.54	2.87x10 ⁻¹⁰	9.48x10 ⁻⁰⁸	13.10
<i>VSIG4</i>	3.35	7.58	10.75	1.13x10 ⁻¹⁵	1.76x10 ⁻¹²	25.39
<i>INSC</i>	3.35	6.77	5.67	4.15x10 ⁻⁰⁷	5.51x10 ⁻⁰⁵	5.95
<i>CTSS</i>	3.35	7.39	10.82	8.58x10 ⁻¹⁶	1.44x10 ⁻¹²	25.66
<i>EFNA1</i>	3.31	7.27	12.96	3.97x10 ⁻¹⁹	1.72x10 ⁻¹⁵	33.23
<i>GIMAP6</i>	3.25	6.40	11.33	1.32x10 ⁻¹⁶	2.77x10 ⁻¹³	27.51
<i>VAMP8</i>	3.24	8.12	9.39	1.98x10 ⁻¹³	1.70x10 ⁻¹⁰	20.29
<i>CMPK2</i>	3.17	7.14	7.64	1.87x10 ⁻¹⁰	6.59x10 ⁻⁰⁸	13.52
<i>KDR</i>	3.16	7.83	15.31	1.71x10 ⁻²²	1.65x10 ⁻¹⁸	40.84
<i>CD24</i>	3.15	7.85	5.75	3.07x10 ⁻⁰⁷	4.24x10 ⁻⁰⁵	6.24
<i>GUCY1A1</i>	3.14	6.75	11.14	2.64x10 ⁻¹⁶	4.99x10 ⁻¹³	26.82
<i>MGP</i>	3.10	7.36	8.45	7.93x10 ⁻¹²	4.28x10 ⁻⁰⁹	16.64
<i>TMTC2</i>	3.09	6.84	7.66	1.76x10 ⁻¹⁰	6.26x10 ⁻⁰⁸	13.58
<i>HCLS1</i>	3.07	7.50	9.50	1.31x10 ⁻¹³	1.17x10 ⁻¹⁰	20.69
<i>MEF2C</i>	3.07	8.26	11.78	2.61x10 ⁻¹⁷	6.75x10 ⁻¹⁴	29.11
<i>A2M</i>	3.06	7.50	24.62	2.90x10 ⁻³³	6.13x10 ⁻²⁸	64.69
<i>CXCL10</i>	3.05	7.27	5.67	4.19x10 ⁻⁰⁷	5.56x10 ⁻⁰⁵	5.94
<i>ENPEP</i>	3.01	5.99	7.89	7.21x10 ⁻¹¹	2.92x10 ⁻⁰⁸	14.46
<i>GMFG</i>	3.00	8.06	10.17	1.01x10 ⁻¹⁴	1.21x10 ⁻¹¹	23.22
<i>GUCY1B1</i>	2.99	7.22	12.57	1.56x10 ⁻¹⁸	5.61x10 ⁻¹⁵	31.88
<i>CADM1</i>	2.99	7.02	11.08	3.29x10 ⁻¹⁶	6.01x10 ⁻¹³	26.61
<i>SELENOP</i>	2.99	6.99	14.97	5.00x10 ⁻²²	3.92x10 ⁻¹⁸	39.78
<i>OLFML2B</i>	2.98	10.23	9.67	6.62x10 ⁻¹⁴	6.58x10 ⁻¹¹	21.37
<i>TM4SF18</i>	2.97	6.04	14.04	1.05x10 ⁻²⁰	6.71x10 ⁻¹⁷	36.80
<i>TNFSF13B</i>	2.96	6.94	7.56	2.57x10 ⁻¹⁰	8.62x10 ⁻⁰⁸	13.21
<i>PMAIP1</i>	2.96	7.99	9.11	5.80x10 ⁻¹³	4.42x10 ⁻¹⁰	19.22
<i>CSF1R</i>	2.95	8.60	9.38	2.03x10 ⁻¹³	1.74x10 ⁻¹⁰	20.26
<i>CCR1</i>	2.95	7.24	9.07	6.83x10 ⁻¹³	5.09x10 ⁻¹⁰	19.06
<i>PLVAP</i>	2.94	7.81	11.44	8.91x10 ⁻¹⁷	2.01x10 ⁻¹³	27.90
<i>PLBD1</i>	2.93	7.54	8.72	2.69x10 ⁻¹²	1.69x10 ⁻⁰⁹	17.71
<i>EVI2B</i>	2.92	7.22	8.77	2.20x10 ⁻¹²	1.41x10 ⁻⁰⁹	17.90
<i>PDGFD</i>	2.91	7.45	7.96	5.33x10 ⁻¹¹	2.27x10 ⁻⁰⁸	14.76
<i>SHTN1</i>	2.91	7.24	8.42	8.89x10 ⁻¹²	4.71x10 ⁻⁰⁹	16.53
<i>MNDA</i>	2.90	6.06	7.68	1.61x10 ⁻¹⁰	5.80x10 ⁻⁰⁸	13.67
<i>GPNMB</i>	2.90	8.45	8.45	7.93x10 ⁻¹²	4.28x10 ⁻⁰⁹	16.64

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>FTX</i>	2.90	7.97	10.70	1.35x10 ⁻¹⁵	2.07x10 ⁻¹²	25.22
<i>TNFSF10</i>	2.89	6.42	6.99	2.50x10 ⁻⁰⁹	6.46x10 ⁻⁰⁷	10.96
<i>CDH5</i>	2.85	6.78	11.36	1.20x10 ⁻¹⁶	2.56x10 ⁻¹³	27.60
<i>GIMAP7</i>	2.83	6.06	6.73	7.04x10 ⁻⁰⁹	1.60x10 ⁻⁰⁶	9.94
<i>CYXR1</i>	2.82	6.38	10.73	1.20x10 ⁻¹⁵	1.85x10 ⁻¹²	25.33
<i>IL10RA</i>	2.80	6.81	8.01	4.34x10 ⁻¹¹	1.88x10 ⁻⁰⁸	14.96
<i>ADAP2</i>	2.79	7.37	11.99	1.22x10 ⁻¹⁷	3.31x10 ⁻¹⁴	29.86
<i>FCGR1B</i>	2.79	6.32	8.36	1.10x10 ⁻¹¹	5.65x10 ⁻⁰⁹	16.32
<i>CD55</i>	2.76	7.71	7.60	2.27x10 ⁻¹⁰	7.74x10 ⁻⁰⁸	13.33
<i>MS4A4A</i>	2.75	6.58	9.65	7.22x10 ⁻¹⁴	7.02x10 ⁻¹¹	21.28
<i>CXCL14</i>	2.74	6.37	5.06	4.18x10 ⁻⁰⁶	3.93x10 ⁻⁰⁴	3.69
<i>COL24A1</i>	2.73	6.59	5.95	1.42x10 ⁻⁰⁷	2.19x10 ⁻⁰⁵	7.00
<i>AOC3</i>	2.72	6.48	7.35	5.93x10 ⁻¹⁰	1.81x10 ⁻⁰⁷	12.38
<i>PECAM1</i>	2.70	6.97	13.92	1.53x10 ⁻²⁰	9.01x10 ⁻¹⁷	36.43
<i>NPTX2</i>	2.69	6.65	4.80	1.09x10 ⁻⁰⁵	8.90x10 ⁻⁰⁴	2.76
<i>GPR183</i>	2.68	7.01	6.72	7.28x10 ⁻⁰⁹	1.64x10 ⁻⁰⁶	9.91
<i>RGS5</i>	2.68	6.90	9.95	2.31x10 ⁻¹⁴	2.56x10 ⁻¹¹	22.41
<i>IFI44L</i>	2.67	8.29	5.21	2.39x10 ⁻⁰⁶	2.44x10 ⁻⁰⁴	4.24
<i>PTPRD</i>	2.66	6.08	11.33	1.34x10 ⁻¹⁶	2.78x10 ⁻¹³	27.49
<i>PTH1R</i>	2.65	7.78	6.16	6.53x10 ⁻⁰⁸	1.12x10 ⁻⁰⁵	7.76
<i>PDGFRL</i>	2.64	7.30	5.23	2.23x10 ⁻⁰⁶	2.30x10 ⁻⁰⁴	4.30
<i>HERC5</i>	2.64	6.79	6.53	1.50x10 ⁻⁰⁸	3.05x10 ⁻⁰⁶	9.20
<i>HLA-DMB</i>	2.61	8.15	8.88	1.46x10 ⁻¹²	9.82x10 ⁻¹⁰	18.31
<i>PLA2G7</i>	2.60	6.12	7.15	1.32x10 ⁻⁰⁹	3.66x10 ⁻⁰⁷	11.59
<i>MS4A6A</i>	2.60	7.03	10.76	1.08x10 ⁻¹⁵	1.74x10 ⁻¹²	25.43
<i>CTSK</i>	2.59	11.42	5.46	9.21x10 ⁻⁰⁷	1.09x10 ⁻⁰⁴	5.17
<i>EMCN</i>	2.57	6.40	8.55	5.21x10 ⁻¹²	3.02x10 ⁻⁰⁹	17.05
<i>DKFZP586I1420</i>	2.57	7.34	9.55	1.07x10 ⁻¹³	9.79x10 ⁻¹¹	20.89
<i>COLEC12</i>	2.57	9.28	5.90	1.76x10 ⁻⁰⁷	2.62x10 ⁻⁰⁵	6.79
<i>MX1</i>	2.56	7.98	5.64	4.72x10 ⁻⁰⁷	6.17x10 ⁻⁰⁵	5.82
<i>HLA-DPA1</i>	2.56	8.72	6.28	4.10x10 ⁻⁰⁸	7.41x10 ⁻⁰⁶	8.21
<i>RGS1</i>	2.55	5.55	8.57	4.86x10 ⁻¹²	2.85x10 ⁻⁰⁹	17.12
<i>LY75</i>	2.55	5.47	5.48	8.84x10 ⁻⁰⁷	1.05x10 ⁻⁰⁴	5.21
<i>RASSF2</i>	2.54	7.17	9.65	7.23x10 ⁻¹⁴	7.02x10 ⁻¹¹	21.28
<i>RRAGD</i>	2.54	6.66	8.83	1.78x10 ⁻¹²	1.17x10 ⁻⁰⁹	18.12
<i>COL10A1</i>	2.51	7.77	4.04	1.54x10 ⁻⁰⁴	8.64x10 ⁻⁰³	0.21
<i>ADAMDEC1</i>	2.50	5.55	4.68	1.64x10 ⁻⁰⁵	1.27x10 ⁻⁰³	2.37
<i>UCP2</i>	2.50	7.50	9.33	2.49x10 ⁻¹³	2.09x10 ⁻¹⁰	20.06
<i>H2BFS</i>	2.50	7.82	5.88	1.89x10 ⁻⁰⁷	2.79x10 ⁻⁰⁵	6.72
<i>CCDC3</i>	2.48	8.78	6.95	2.92x10 ⁻⁰⁹	7.39x10 ⁻⁰⁷	10.81
<i>PLPPR4</i>	2.47	6.08	5.46	9.22x10 ⁻⁰⁷	1.09x10 ⁻⁰⁴	5.17
<i>TSPAN7</i>	2.46	6.74	5.65	4.57x10 ⁻⁰⁷	5.99x10 ⁻⁰⁵	5.85
<i>RSAD2</i>	2.45	6.16	4.63	1.97x10 ⁻⁰⁵	1.48x10 ⁻⁰³	2.19
<i>CCDC102B</i>	2.44	5.50	7.31	7.05x10 ⁻¹⁰	2.13x10 ⁻⁰⁷	12.21
<i>SAT1</i>	2.44	10.77	11.39	1.05x10 ⁻¹⁶	2.30x10 ⁻¹³	27.73
<i>KCNJ2</i>	2.44	8.02	6.56	1.34x10 ⁻⁰⁸	2.76x10 ⁻⁰⁶	9.31
<i>REEP1</i>	2.44	6.61	5.49	8.30x10 ⁻⁰⁷	1.00x10 ⁻⁰⁴	5.27
<i>HEY2</i>	2.43	6.66	7.93	6.01x10 ⁻¹¹	2.49x10 ⁻⁰⁸	14.64
<i>PELI1</i>	2.43	6.53	9.66	7.01x10 ⁻¹⁴	6.90x10 ⁻¹¹	21.31

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>GIMAP4</i>	2.43	7.06	8.78	2.10x10 ⁻¹²	1.36x10 ⁻⁰⁹	17.95
<i>PODXL</i>	2.43	8.09	9.71	5.89x10 ⁻¹⁴	5.97x10 ⁻¹¹	21.48
<i>SUCNR1</i>	2.43	6.19	5.68	4.02x10 ⁻⁰⁷	5.37x10 ⁻⁰⁵	5.98
<i>CD36</i>	2.42	6.02	7.72	1.40x10 ⁻¹⁰	5.18x10 ⁻⁰⁸	13.81
<i>FAM129A</i>	2.42	7.92	5.96	1.38x10 ⁻⁰⁷	2.13x10 ⁻⁰⁵	7.02
<i>CCL8</i>	2.41	6.29	5.09	3.76x10 ⁻⁰⁶	3.61x10 ⁻⁰⁴	3.80
<i>TCIM</i>	2.41	4.77	6.62	1.08x10 ⁻⁰⁸	2.33x10 ⁻⁰⁶	9.52
<i>LOC100996740</i>	2.41	7.43	8.09	3.15x10 ⁻¹¹	1.42x10 ⁻⁰⁸	15.28
<i>CLEC4A</i>	2.40	6.30	6.98	2.55x10 ⁻⁰⁹	6.58x10 ⁻⁰⁷	10.94
<i>BLNK</i>	2.38	5.57	7.95	5.66x10 ⁻¹¹	2.36x10 ⁻⁰⁸	14.70
<i>LRRN3</i>	2.38	7.46	5.83	2.29x10 ⁻⁰⁷	3.31x10 ⁻⁰⁵	6.53
<i>GZMA</i>	2.36	5.63	4.08	1.36x10 ⁻⁰⁴	7.74x10 ⁻⁰³	0.34
<i>BMP2</i>	2.36	6.84	5.47	8.90x10 ⁻⁰⁷	1.06x10 ⁻⁰⁴	5.20
<i>CRISPLD1</i>	2.36	8.22	4.31	6.05x10 ⁻⁰⁵	3.87x10 ⁻⁰³	1.11
<i>CLK1</i>	2.35	8.16	10.24	7.78x10 ⁻¹⁵	9.53x10 ⁻¹²	23.48
<i>ISG15</i>	2.35	9.61	6.20	5.44x10 ⁻⁰⁸	9.55x10 ⁻⁰⁶	7.94
<i>GPM6B</i>	2.34	6.80	7.42	4.51x10 ⁻¹⁰	1.42x10 ⁻⁰⁷	12.65
<i>DTX4</i>	2.33	7.67	6.20	5.47x10 ⁻⁰⁸	9.60x10 ⁻⁰⁶	7.93
<i>FPR3</i>	2.32	6.12	10.04	1.64x10 ⁻¹⁴	1.88x10 ⁻¹¹	22.74
<i>APOC1</i>	2.31	8.82	7.52	3.11x10 ⁻¹⁰	1.02x10 ⁻⁰⁷	13.02
<i>LYN</i>	2.30	7.48	9.21	4.02x10 ⁻¹³	3.23x10 ⁻¹⁰	19.58
<i>CTSC</i>	2.28	8.21	8.12	2.90x10 ⁻¹¹	1.32x10 ⁻⁰⁸	15.36
<i>ARHGDI1</i>	2.28	8.19	12.46	2.31x10 ⁻¹⁸	7.52x10 ⁻¹⁵	31.50
<i>COL18A1</i>	2.28	7.09	7.72	1.39x10 ⁻¹⁰	5.17x10 ⁻⁰⁸	13.81
<i>EPB41L3</i>	2.28	5.72	7.42	4.53x10 ⁻¹⁰	1.42x10 ⁻⁰⁷	12.64
<i>GHR</i>	2.28	7.39	6.24	4.75x10 ⁻⁰⁸	8.47x10 ⁻⁰⁶	8.07
<i>CCDC152</i>	2.28	9.88	9.83	3.65x10 ⁻¹⁴	3.84x10 ⁻¹¹	21.96
<i>PLTP</i>	2.26	8.13	6.25	4.58x10 ⁻⁰⁸	8.23x10 ⁻⁰⁶	8.10
<i>ZNF302</i>	2.26	7.42	8.90	1.35x10 ⁻¹²	9.27x10 ⁻¹⁰	18.39
<i>RCAN2</i>	2.25	8.25	5.21	2.40x10 ⁻⁰⁶	2.45x10 ⁻⁰⁴	4.23
<i>SHOX2</i>	2.24	6.70	9.66	7.04x10 ⁻¹⁴	6.90x10 ⁻¹¹	21.31
<i>PTPRC</i>	2.24	5.35	9.58	9.68x10 ⁻¹⁴	9.07x10 ⁻¹¹	20.99
<i>HIST1H1C</i>	2.24	8.18	4.84	9.15x10 ⁻⁰⁶	7.69x10 ⁻⁰⁴	2.93
<i>NPNT</i>	2.22	5.79	9.83	3.69x10 ⁻¹⁴	3.87x10 ⁻¹¹	21.94
<i>LINC00597</i>	2.22	5.68	6.49	1.78x10 ⁻⁰⁸	3.54x10 ⁻⁰⁶	9.03
<i>MTUS1</i>	2.22	6.13	9.01	8.53x10 ⁻¹³	6.14x10 ⁻¹⁰	18.84
<i>HCK</i>	2.22	6.31	7.95	5.61x10 ⁻¹¹	2.36x10 ⁻⁰⁸	14.71
<i>ABHD3</i>	2.21	7.62	10.78	1.01x10 ⁻¹⁵	1.65x10 ⁻¹²	25.50
<i>THEMIS2</i>	2.21	6.41	8.86	1.58x10 ⁻¹²	1.06x10 ⁻⁰⁹	18.23
<i>C5AR1</i>	2.21	6.68	7.03	2.12x10 ⁻⁰⁹	5.60x10 ⁻⁰⁷	11.13
<i>IFIT1</i>	2.20	8.28	4.59	2.32x10 ⁻⁰⁵	1.69x10 ⁻⁰³	2.04
<i>RGS2</i>	2.19	9.41	5.17	2.82x10 ⁻⁰⁶	2.81x10 ⁻⁰⁴	4.08
<i>CKB</i>	2.19	8.61	4.41	4.36x10 ⁻⁰⁵	2.92x10 ⁻⁰³	1.42
<i>NCF2</i>	2.18	5.75	7.49	3.51x10 ⁻¹⁰	1.13x10 ⁻⁰⁷	12.90
<i>CCDC18-AS1</i>	2.18	8.21	8.69	3.09x10 ⁻¹²	1.91x10 ⁻⁰⁹	17.57
<i>C1orf162</i>	2.18	6.94	7.08	1.73x10 ⁻⁰⁹	4.66x10 ⁻⁰⁷	11.33
<i>GOLGA8N</i>	2.18	8.64	8.62	3.99x10 ⁻¹²	2.39x10 ⁻⁰⁹	17.32
<i>CLEC2B</i>	2.16	6.59	8.55	5.32x10 ⁻¹²	3.07x10 ⁻⁰⁹	17.03
<i>IFITM1</i>	2.15	10.03	5.77	2.90x10 ⁻⁰⁷	4.05x10 ⁻⁰⁵	6.30

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>DDX60</i>	2.15	7.05	6.92	3.22x10 ⁻⁰⁹	8.00x10 ⁻⁰⁷	10.71
<i>HLA-DMA</i>	2.15	8.36	6.08	8.59x10 ⁻⁰⁸	1.43x10 ⁻⁰⁵	7.49
<i>SERPINF1</i>	2.13	10.78	6.09	8.32x10 ⁻⁰⁸	1.39x10 ⁻⁰⁵	7.52
<i>TAF1D</i>	2.13	7.18	8.33	1.23x10 ⁻¹¹	6.25x10 ⁻⁰⁹	16.20
<i>EDNRA</i>	2.13	7.78	5.57	6.26x10 ⁻⁰⁷	7.81x10 ⁻⁰⁵	5.54
<i>ALDH1A1</i>	2.13	5.23	5.58	6.03x10 ⁻⁰⁷	7.59x10 ⁻⁰⁵	5.58
<i>LRRC1</i>	2.12	6.60	8.81	1.88x10 ⁻¹²	1.22x10 ⁻⁰⁹	18.06
<i>SMOC2</i>	2.11	6.30	6.24	4.73x10 ⁻⁰⁸	8.46x10 ⁻⁰⁶	8.07
<i>NPL</i>	2.11	6.41	9.26	3.34x10 ⁻¹³	2.74x10 ⁻¹⁰	19.77
<i>ST8SIA4</i>	2.11	5.40	9.23	3.73x10 ⁻¹³	3.03x10 ⁻¹⁰	19.66
<i>LINC01094</i>	2.10	5.58	9.15	5.10x10 ⁻¹³	3.97x10 ⁻¹⁰	19.35
<i>MEGF10</i>	2.10	6.27	6.05	9.92x10 ⁻⁰⁸	1.61x10 ⁻⁰⁵	7.35
<i>PIK3AP1</i>	2.08	5.74	10.35	5.06x10 ⁻¹⁵	6.54x10 ⁻¹²	23.91
<i>FMR1</i>	2.08	8.61	10.12	1.22x10 ⁻¹⁴	1.43x10 ⁻¹¹	23.04
<i>HILPDA</i>	2.08	8.58	6.00	1.18x10 ⁻⁰⁷	1.87x10 ⁻⁰⁵	7.18
<i>CLIC2</i>	2.08	5.07	6.55	1.43x10 ⁻⁰⁸	2.91x10 ⁻⁰⁶	9.25
<i>TRMT13</i>	2.07	6.68	8.29	1.46x10 ⁻¹¹	7.24x10 ⁻⁰⁹	16.04
<i>PPEF1</i>	2.06	6.34	4.79	1.12x10 ⁻⁰⁵	9.07x10 ⁻⁰⁴	2.74
<i>ALOX5AP</i>	2.05	6.98	6.57	1.27x10 ⁻⁰⁸	2.65x10 ⁻⁰⁶	9.36
<i>HIST1H2AC</i>	2.05	8.88	4.60	2.23x10 ⁻⁰⁵	1.64x10 ⁻⁰³	2.07
<i>AIF1</i>	2.04	7.72	10.29	6.36x10 ⁻¹⁵	8.01x10 ⁻¹²	23.68
<i>CSF2RB</i>	2.04	6.21	5.08	3.93x10 ⁻⁰⁶	3.73x10 ⁻⁰⁴	3.75
<i>RCS1</i>	2.03	5.72	6.15	6.78x10 ⁻⁰⁸	1.16x10 ⁻⁰⁵	7.72
<i>ARHGEF6</i>	2.02	8.92	12.35	3.43x10 ⁻¹⁸	1.05x10 ⁻¹⁴	31.11
<i>RGCC</i>	2.02	5.24	15.31	1.71x10 ⁻²²	1.65x10 ⁻¹⁸	40.83
<i>LY86</i>	2.01	7.26	8.39	1.00x10 ⁻¹¹	5.21x10 ⁻⁰⁹	16.41
<i>AIM2</i>	2.01	6.65	3.99	1.80x10 ⁻⁰⁴	9.80x10 ⁻⁰³	0.07
<i>SLC7A7</i>	2.01	8.22	8.98	9.77x10 ⁻¹³	6.94x10 ⁻¹⁰	18.71
<i>ZNF267</i>	1.99	7.08	8.79	2.08x10 ⁻¹²	1.35x10 ⁻⁰⁹	17.96
<i>SLC22A15</i>	1.98	6.43	4.92	6.92x10 ⁻⁰⁶	6.03x10 ⁻⁰⁴	3.20
<i>C3AR1</i>	1.98	7.97	9.20	4.18x10 ⁻¹³	3.34x10 ⁻¹⁰	19.55
<i>GSAP</i>	1.98	6.55	5.68	4.03x10 ⁻⁰⁷	5.38x10 ⁻⁰⁵	5.97
<i>CASP1</i>	1.97	6.74	6.81	4.99x10 ⁻⁰⁹	1.18x10 ⁻⁰⁶	10.28
<i>LUM</i>	1.97	10.58	5.92	1.65x10 ⁻⁰⁷	2.49x10 ⁻⁰⁵	6.85
<i>APOLD1</i>	1.96	8.13	7.19	1.15x10 ⁻⁰⁹	3.27x10 ⁻⁰⁷	11.73
<i>IFI44</i>	1.96	7.55	6.48	1.83x10 ⁻⁰⁸	3.62x10 ⁻⁰⁶	9.01
<i>THBD</i>	1.96	6.26	7.69	1.58x10 ⁻¹⁰	5.73x10 ⁻⁰⁸	13.69
<i>RTN1</i>	1.96	5.43	7.00	2.39x10 ⁻⁰⁹	6.20x10 ⁻⁰⁷	11.01
<i>ANKRD46</i>	1.93	8.09	7.02	2.21x10 ⁻⁰⁹	5.81x10 ⁻⁰⁷	11.08
<i>N4BP2</i>	1.93	6.80	7.67	1.69x10 ⁻¹⁰	6.03x10 ⁻⁰⁸	13.62
<i>ROMO1</i>	1.93	8.89	8.03	4.09x10 ⁻¹¹	1.79x10 ⁻⁰⁸	15.02
<i>GPRASP1</i>	1.93	6.20	6.06	9.32x10 ⁻⁰⁸	1.53x10 ⁻⁰⁵	7.41
<i>PDK3</i>	1.92	6.80	8.82	1.79x10 ⁻¹²	1.18x10 ⁻⁰⁹	18.11
<i>CALCRL</i>	1.92	5.60	8.29	1.47x10 ⁻¹¹	7.28x10 ⁻⁰⁹	16.03
<i>ELMO1</i>	1.91	5.67	8.13	2.73x10 ⁻¹¹	1.25x10 ⁻⁰⁸	15.42
<i>LRP4</i>	1.91	7.46	4.57	2.45x10 ⁻⁰⁵	1.78x10 ⁻⁰³	1.98
<i>LCPI</i>	1.91	7.84	6.01	1.16x10 ⁻⁰⁷	1.85x10 ⁻⁰⁵	7.19
<i>TMEM205</i>	1.90	8.36	10.51	2.77x10 ⁻¹⁵	3.80x10 ⁻¹²	24.50
<i>MITF</i>	1.90	6.00	12.29	4.21x10 ⁻¹⁸	1.24x10 ⁻¹⁴	30.91

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>TNFRSF11A</i>	1.90	5.72	4.95	6.25x10 ⁻⁰⁶	5.51x10 ⁻⁰⁴	3.30
<i>SYTL2</i>	1.90	8.04	7.71	1.44x10 ⁻¹⁰	5.34x10 ⁻⁰⁸	13.77
<i>FGF13</i>	1.89	5.50	4.35	5.24x10 ⁻⁰⁵	3.43x10 ⁻⁰³	1.25
<i>FAM213A</i>	1.89	7.00	7.14	1.38x10 ⁻⁰⁹	3.80x10 ⁻⁰⁷	11.55
<i>FCGR2B</i>	1.89	5.45	5.47	9.03x10 ⁻⁰⁷	1.07x10 ⁻⁰⁴	5.19
<i>RAB38</i>	1.88	6.66	5.20	2.50x10 ⁻⁰⁶	2.53x10 ⁻⁰⁴	4.19
<i>PDZD2</i>	1.88	5.57	7.43	4.29x10 ⁻¹⁰	1.36x10 ⁻⁰⁷	12.70
<i>PABPN1</i>	1.87	7.45	7.80	9.91x10 ⁻¹¹	3.86x10 ⁻⁰⁸	14.15
<i>SELL</i>	1.87	5.06	4.50	3.12x10 ⁻⁰⁵	2.18x10 ⁻⁰³	1.75
<i>TMEM176A</i>	1.86	7.55	5.47	8.97x10 ⁻⁰⁷	1.06x10 ⁻⁰⁴	5.19
<i>GUCY1A2</i>	1.86	5.56	7.80	1.01x10 ⁻¹⁰	3.89x10 ⁻⁰⁸	14.13
<i>NOTCH2NL</i>	1.86	11.12	9.02	8.33x10 ⁻¹³	6.02x10 ⁻¹⁰	18.86
<i>PMS2P5</i>	1.86	5.41	7.74	1.28x10 ⁻¹⁰	4.76x10 ⁻⁰⁸	13.90
<i>LY96</i>	1.85	8.69	6.19	5.63x10 ⁻⁰⁸	9.83x10 ⁻⁰⁶	7.90
<i>RNASE1</i>	1.85	6.24	13.14	2.15x10 ⁻¹⁹	9.90x10 ⁻¹⁶	33.83
<i>CD86</i>	1.85	5.88	8.68	3.20x10 ⁻¹²	1.97x10 ⁻⁰⁹	17.54
<i>SMAD1</i>	1.85	7.68	8.70	2.88x10 ⁻¹²	1.80x10 ⁻⁰⁹	17.64
<i>HIST1H2BC</i>	1.85	6.02	4.30	6.39x10 ⁻⁰⁵	4.05x10 ⁻⁰³	1.06
<i>STON1</i>	1.85	8.29	6.35	3.05x10 ⁻⁰⁸	5.74x10 ⁻⁰⁶	8.50
<i>APLNR</i>	1.84	7.24	6.88	3.83x10 ⁻⁰⁹	9.32x10 ⁻⁰⁷	10.54
<i>ROBO1</i>	1.83	9.57	8.63	3.83x10 ⁻¹²	2.31x10 ⁻⁰⁹	17.36
<i>STON2</i>	1.83	5.25	7.12	1.50x10 ⁻⁰⁹	4.12x10 ⁻⁰⁷	11.47
<i>LINC00623</i>	1.83	8.88	8.69	3.07x10 ⁻¹²	1.91x10 ⁻⁰⁹	17.58
<i>HLA-DQB1</i>	1.83	6.24	6.97	2.73x10 ⁻⁰⁹	6.99x10 ⁻⁰⁷	10.88
<i>ATP6V0D2</i>	1.82	5.88	4.31	6.04x10 ⁻⁰⁵	3.86x10 ⁻⁰³	1.11
<i>PTPN13</i>	1.82	7.02	7.03	2.12x10 ⁻⁰⁹	5.60x10 ⁻⁰⁷	11.12
<i>PII5</i>	1.82	5.65	5.24	2.16x10 ⁻⁰⁶	2.24x10 ⁻⁰⁴	4.34
<i>ESAM</i>	1.82	6.63	9.50	1.30x10 ⁻¹³	1.17x10 ⁻¹⁰	20.70
<i>NNT-AS1</i>	1.81	6.92	6.86	4.16x10 ⁻⁰⁹	1.01x10 ⁻⁰⁶	10.46
<i>PLEKHG1</i>	1.81	5.32	6.79	5.38x10 ⁻⁰⁹	1.26x10 ⁻⁰⁶	10.21
<i>CD74</i>	1.81	7.52	8.18	2.21x10 ⁻¹¹	1.05x10 ⁻⁰⁸	15.62
<i>PARP12</i>	1.81	7.25	6.76	6.18x10 ⁻⁰⁹	1.42x10 ⁻⁰⁶	10.07
<i>MGST2</i>	1.81	8.07	10.76	1.10x10 ⁻¹⁵	1.75x10 ⁻¹²	25.42
<i>DDIT4</i>	1.81	9.94	4.83	9.71x10 ⁻⁰⁶	8.08x10 ⁻⁰⁴	2.88
<i>SYK</i>	1.80	5.97	8.30	1.41x10 ⁻¹¹	7.01x10 ⁻⁰⁹	16.07
<i>BAZ1A</i>	1.80	7.96	9.49	1.34x10 ⁻¹³	1.18x10 ⁻¹⁰	20.67
<i>RBP7</i>	1.80	6.37	5.22	2.32x10 ⁻⁰⁶	2.39x10 ⁻⁰⁴	4.26
<i>SLA</i>	1.80	7.27	8.52	5.98x10 ⁻¹²	3.37x10 ⁻⁰⁹	16.92
<i>SNHG19</i>	1.79	8.60	5.67	4.30x10 ⁻⁰⁷	5.70x10 ⁻⁰⁵	5.91
<i>RLF</i>	1.79	8.03	11.13	2.73x10 ⁻¹⁶	5.07x10 ⁻¹³	26.79
<i>PPT1</i>	1.79	11.01	12.03	1.06x10 ⁻¹⁷	2.95x10 ⁻¹⁴	29.99
<i>TRPS1</i>	1.79	7.67	8.55	5.22x10 ⁻¹²	3.02x10 ⁻⁰⁹	17.05
<i>C8orf59</i>	1.79	7.88	7.92	6.19x10 ⁻¹¹	2.53x10 ⁻⁰⁸	14.61
<i>C16orf54</i>	1.78	4.32	4.29	6.43x10 ⁻⁰⁵	4.07x10 ⁻⁰³	1.05
<i>IFIT3</i>	1.78	7.97	4.63	1.98x10 ⁻⁰⁵	1.48x10 ⁻⁰³	2.19
<i>HLA-DPB1</i>	1.77	7.24	7.53	2.99x10 ⁻¹⁰	9.84x10 ⁻⁰⁸	13.06
<i>FCGR2A</i>	1.77	5.26	11.71	3.30x10 ⁻¹⁷	8.33x10 ⁻¹⁴	28.87
<i>EDNRB</i>	1.77	5.99	6.33	3.32x10 ⁻⁰⁸	6.17x10 ⁻⁰⁶	8.42
<i>SOX7</i>	1.77	4.88	8.14	2.61x10 ⁻¹¹	1.20x10 ⁻⁰⁸	15.46

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>GCHI</i>	1.77	6.25	4.26	7.36x10 ⁻⁰⁵	4.56x10 ⁻⁰³	0.92
<i>SLC27A3</i>	1.76	7.15	7.54	2.79x10 ⁻¹⁰	9.24x10 ⁻⁰⁸	13.13
<i>ZNF43</i>	1.76	7.24	8.21	1.98x10 ⁻¹¹	9.51x10 ⁻⁰⁹	15.73
<i>RUBCNL</i>	1.76	5.84	5.63	4.94x10 ⁻⁰⁷	6.42x10 ⁻⁰⁵	5.77
<i>ENPP2</i>	1.75	9.77	4.80	1.06x10 ⁻⁰⁵	8.69x10 ⁻⁰⁴	2.79
<i>COL3A1</i>	1.74	10.81	5.81	2.48x10 ⁻⁰⁷	3.53x10 ⁻⁰⁵	6.45
<i>COL21A1</i>	1.74	7.34	4.92	7.08x10 ⁻⁰⁶	6.14x10 ⁻⁰⁴	3.18
<i>MYLIP</i>	1.73	7.06	9.41	1.84x10 ⁻¹³	1.59x10 ⁻¹⁰	20.36
<i>CRIP1</i>	1.73	8.80	4.09	1.27x10 ⁻⁰⁴	7.34x10 ⁻⁰³	0.40
<i>WWP1</i>	1.73	8.81	6.69	8.07x10 ⁻⁰⁹	1.80x10 ⁻⁰⁶	9.81
<i>GBP2</i>	1.73	6.95	4.93	6.82x10 ⁻⁰⁶	5.94x10 ⁻⁰⁴	3.22
<i>AKAP10</i>	1.73	6.59	8.35	1.16x10 ⁻¹¹	5.93x10 ⁻⁰⁹	16.26
<i>ANKRD36B</i>	1.73	7.10	5.49	8.29x10 ⁻⁰⁷	1.00x10 ⁻⁰⁴	5.27
<i>LINC02256</i>	1.73	6.57	10.51	2.74x10 ⁻¹⁵	3.79x10 ⁻¹²	24.51
<i>HIST1H2BD</i>	1.72	7.95	5.43	1.04x10 ⁻⁰⁶	1.20x10 ⁻⁰⁴	5.05
<i>SOD2</i>	1.72	6.70	5.29	1.74x10 ⁻⁰⁶	1.87x10 ⁻⁰⁴	4.54
<i>NEURL1B</i>	1.72	7.86	6.55	1.40x10 ⁻⁰⁸	2.86x10 ⁻⁰⁶	9.27
<i>ENTPD1</i>	1.71	6.06	6.37	2.88x10 ⁻⁰⁸	5.45x10 ⁻⁰⁶	8.56
<i>LOC100289333</i>	1.71	7.73	9.03	8.04x10 ⁻¹³	5.85x10 ⁻¹⁰	18.90
<i>COX6C</i>	1.71	11.77	12.35	3.38x10 ⁻¹⁸	1.05x10 ⁻¹⁴	31.12
<i>LGMN</i>	1.71	9.88	8.30	1.40x10 ⁻¹¹	6.99x10 ⁻⁰⁹	16.08
<i>TNN</i>	1.70	6.40	4.28	6.73x10 ⁻⁰⁵	4.23x10 ⁻⁰³	1.01
<i>TLR2</i>	1.70	6.99	7.68	1.63x10 ⁻¹⁰	5.86x10 ⁻⁰⁸	13.65
<i>IFI6</i>	1.70	8.25	4.52	2.89x10 ⁻⁰⁵	2.05x10 ⁻⁰³	1.82
<i>SAMHD1</i>	1.70	7.25	7.09	1.68x10 ⁻⁰⁹	4.54x10 ⁻⁰⁷	11.36
<i>HENMT1</i>	1.70	7.84	7.24	9.23x10 ⁻¹⁰	2.70x10 ⁻⁰⁷	11.94
<i>LINC02475</i>	1.70	5.77	4.31	6.15x10 ⁻⁰⁵	3.92x10 ⁻⁰³	1.09
<i>OFD1</i>	1.69	6.66	8.30	1.40x10 ⁻¹¹	6.99x10 ⁻⁰⁹	16.08
<i>RERG</i>	1.68	6.27	5.21	2.41x10 ⁻⁰⁶	2.46x10 ⁻⁰⁴	4.23
<i>FNIP2</i>	1.68	7.51	7.19	1.13x10 ⁻⁰⁹	3.22x10 ⁻⁰⁷	11.75
<i>PM20D2</i>	1.68	6.24	8.72	2.69x10 ⁻¹²	1.69x10 ⁻⁰⁹	17.71
<i>TMCC3</i>	1.68	5.49	7.81	9.87x10 ⁻¹¹	3.85x10 ⁻⁰⁸	14.15
<i>POGZ</i>	1.68	7.97	11.37	1.16x10 ⁻¹⁶	2.50x10 ⁻¹³	27.64
<i>MTF2</i>	1.67	7.31	9.02	8.26x10 ⁻¹³	5.99x10 ⁻¹⁰	18.87
<i>BST2</i>	1.67	6.87	3.99	1.80x10 ⁻⁰⁴	9.84x10 ⁻⁰³	0.06
<i>LSM7</i>	1.66	9.86	6.57	1.31x10 ⁻⁰⁸	2.72x10 ⁻⁰⁶	9.33
<i>TMEM150C</i>	1.65	6.06	5.41	1.11x10 ⁻⁰⁶	1.27x10 ⁻⁰⁴	4.98
<i>ZNF273</i>	1.65	5.04	7.95	5.59x10 ⁻¹¹	2.36x10 ⁻⁰⁸	14.71
<i>DCHS1</i>	1.65	6.56	7.07	1.82x10 ⁻⁰⁹	4.86x10 ⁻⁰⁷	11.28
<i>TLR1</i>	1.65	4.94	7.39	5.05x10 ⁻¹⁰	1.56x10 ⁻⁰⁷	12.54
<i>CD83</i>	1.65	7.41	7.69	1.58x10 ⁻¹⁰	5.73x10 ⁻⁰⁸	13.69
<i>ANGPT2</i>	1.65	5.85	5.69	3.87x10 ⁻⁰⁷	5.21x10 ⁻⁰⁵	6.01
<i>CCL4</i>	1.65	6.85	5.00	5.15x10 ⁻⁰⁶	4.69x10 ⁻⁰⁴	3.49
<i>TRAC</i>	1.65	6.50	4.53	2.79x10 ⁻⁰⁵	1.99x10 ⁻⁰³	1.85
<i>TM6SF1</i>	1.64	5.44	7.61	2.17x10 ⁻¹⁰	7.49x10 ⁻⁰⁸	13.37
<i>HSPA6</i>	1.64	6.56	5.08	3.88x10 ⁻⁰⁶	3.70x10 ⁻⁰⁴	3.77
<i>ZNF12</i>	1.64	8.22	7.68	1.61x10 ⁻¹⁰	5.80x10 ⁻⁰⁸	13.66
<i>ANKRD10-IT1</i>	1.64	7.93	6.39	2.63x10 ⁻⁰⁸	5.04x10 ⁻⁰⁶	8.65
<i>GPR65</i>	1.63	6.25	5.74	3.22x10 ⁻⁰⁷	4.42x10 ⁻⁰⁵	6.19

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>MZT2B</i>	1.63	7.28	7.40	4.89x10 ⁻¹⁰	1.52x10 ⁻⁰⁷	12.57
<i>OLFML2A</i>	1.63	8.12	5.85	2.14x10 ⁻⁰⁷	3.12x10 ⁻⁰⁵	6.59
<i>FGFR3</i>	1.63	5.91	4.37	5.01x10 ⁻⁰⁵	3.30x10 ⁻⁰³	1.29
<i>CPA3</i>	1.62	5.70	4.00	1.77x10 ⁻⁰⁴	9.69x10 ⁻⁰³	0.08
<i>ATP2B1-AS1</i>	1.61	7.19	6.00	1.19x10 ⁻⁰⁷	1.89x10 ⁻⁰⁵	7.17
<i>CADPS2</i>	1.61	6.93	5.89	1.79x10 ⁻⁰⁷	2.66x10 ⁻⁰⁵	6.77
<i>HLA-DQA1</i>	1.61	5.30	4.43	4.08x10 ⁻⁰⁵	2.76x10 ⁻⁰³	1.49
<i>SLC29A1</i>	1.61	7.01	4.59	2.32x10 ⁻⁰⁵	1.69x10 ⁻⁰³	2.04
<i>BTN3A2</i>	1.61	7.49	6.89	3.74x10 ⁻⁰⁹	9.13x10 ⁻⁰⁷	10.57
<i>PCDH7</i>	1.60	5.67	5.50	8.16x10 ⁻⁰⁷	9.87x10 ⁻⁰⁵	5.29
<i>SLC44A3</i>	1.60	5.22	6.24	4.68x10 ⁻⁰⁸	8.38x10 ⁻⁰⁶	8.08
<i>RAB31</i>	1.60	11.05	9.27	3.20x10 ⁻¹³	2.64x10 ⁻¹⁰	19.81
<i>S1PR1</i>	1.60	7.74	7.15	1.31x10 ⁻⁰⁹	3.63x10 ⁻⁰⁷	11.60
<i>COX1</i>	1.59	13.91	9.12	5.74x10 ⁻¹³	4.41x10 ⁻¹⁰	19.23
<i>PSMD6-AS2</i>	1.59	7.36	5.94	1.52x10 ⁻⁰⁷	2.32x10 ⁻⁰⁵	6.93
<i>GCA</i>	1.59	6.06	5.72	3.52x10 ⁻⁰⁷	4.78x10 ⁻⁰⁵	6.11
<i>PLEK</i>	1.59	6.86	5.98	1.31x10 ⁻⁰⁷	2.04x10 ⁻⁰⁵	7.08
<i>CHD1</i>	1.58	7.96	9.25	3.36x10 ⁻¹³	2.75x10 ⁻¹⁰	19.76
<i>SAMSN1</i>	1.58	4.99	6.61	1.12x10 ⁻⁰⁸	2.39x10 ⁻⁰⁶	9.49
<i>TDO2</i>	1.58	5.04	5.19	2.55x10 ⁻⁰⁶	2.58x10 ⁻⁰⁴	4.17
<i>SIGLEC1</i>	1.58	6.25	5.03	4.65x10 ⁻⁰⁶	4.30x10 ⁻⁰⁴	3.59
<i>PTBP2</i>	1.58	6.64	6.99	2.44x10 ⁻⁰⁹	6.32x10 ⁻⁰⁷	10.99
<i>CDC7</i>	1.57	7.48	4.84	9.30x10 ⁻⁰⁶	7.79x10 ⁻⁰⁴	2.92
<i>SLAMF8</i>	1.57	5.63	5.49	8.38x10 ⁻⁰⁷	1.01x10 ⁻⁰⁴	5.26
<i>RNF144A</i>	1.56	5.73	11.44	8.93x10 ⁻¹⁷	2.01x10 ⁻¹³	27.89
<i>DANCR</i>	1.56	9.16	5.81	2.43x10 ⁻⁰⁷	3.48x10 ⁻⁰⁵	6.47
<i>MYO5C</i>	1.56	6.02	6.84	4.42x10 ⁻⁰⁹	1.06x10 ⁻⁰⁶	10.40
<i>CDKN3</i>	1.56	8.38	4.13	1.13x10 ⁻⁰⁴	6.62x10 ⁻⁰³	0.51
<i>KLHL8</i>	1.56	7.09	9.18	4.49x10 ⁻¹³	3.54x10 ⁻¹⁰	19.48
<i>SHPRH</i>	1.56	6.36	6.70	7.74x10 ⁻⁰⁹	1.73x10 ⁻⁰⁶	9.85
<i>MATN2</i>	1.55	6.54	8.89	1.38x10 ⁻¹²	9.33x10 ⁻¹⁰	18.37
<i>LPAR4</i>	1.54	5.44	4.90	7.36x10 ⁻⁰⁶	6.36x10 ⁻⁰⁴	3.14
<i>TFEC</i>	1.54	4.57	6.81	5.11x10 ⁻⁰⁹	1.20x10 ⁻⁰⁶	10.26
<i>MGAT4A</i>	1.54	5.08	9.68	6.55x10 ⁻¹⁴	6.54x10 ⁻¹¹	21.38
<i>ZSWIM6</i>	1.53	9.11	9.16	4.80x10 ⁻¹³	3.75x10 ⁻¹⁰	19.41
<i>MBOAT1</i>	1.53	5.88	6.08	8.86x10 ⁻⁰⁸	1.46x10 ⁻⁰⁵	7.46
<i>SLCO2B1</i>	1.53	6.18	8.39	1.00x10 ⁻¹¹	5.22x10 ⁻⁰⁹	16.41
<i>HIST1H2AE</i>	1.53	4.83	4.27	6.96x10 ⁻⁰⁵	4.36x10 ⁻⁰³	0.98
<i>ZNF266</i>	1.53	8.28	7.77	1.14x10 ⁻¹⁰	4.37x10 ⁻⁰⁸	14.01
<i>PLXNC1</i>	1.53	5.44	8.69	3.03x10 ⁻¹²	1.89x10 ⁻⁰⁹	17.59
<i>LEF1</i>	1.53	5.55	11.93	1.49x10 ⁻¹⁷	3.93x10 ⁻¹⁴	29.66
<i>RNF13</i>	1.53	9.17	8.93	1.18x10 ⁻¹²	8.22x10 ⁻¹⁰	18.52
<i>GPX3</i>	1.53	7.79	4.17	9.83x10 ⁻⁰⁵	5.87x10 ⁻⁰³	0.64
<i>LCORL</i>	1.53	6.45	7.88	7.31x10 ⁻¹¹	2.94x10 ⁻⁰⁸	14.45
<i>THSD7A</i>	1.53	5.31	6.67	8.69x10 ⁻⁰⁹	1.92x10 ⁻⁰⁶	9.74
<i>TPRG1</i>	1.53	5.03	5.55	6.68x10 ⁻⁰⁷	8.24x10 ⁻⁰⁵	5.48
<i>TMEM51</i>	1.53	6.53	7.51	3.18x10 ⁻¹⁰	1.04x10 ⁻⁰⁷	12.99
<i>FABP5</i>	1.52	10.46	6.16	6.52x10 ⁻⁰⁸	1.12x10 ⁻⁰⁵	7.76
<i>RPL11</i>	1.52	12.71	7.88	7.26x10 ⁻¹¹	2.94x10 ⁻⁰⁸	14.45

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>PLXDC1</i>	1.52	6.28	6.61	1.10x10 ⁻⁰⁸	2.36x10 ⁻⁰⁶	9.50
<i>SIPA1L2</i>	1.52	6.09	10.15	1.10x10 ⁻¹⁴	1.29x10 ⁻¹¹	23.14
<i>LYSMD2</i>	1.52	7.94	7.10	1.61x10 ⁻⁰⁹	4.38x10 ⁻⁰⁷	11.40
<i>ITGB3BP</i>	1.52	8.93	5.42	1.09x10 ⁻⁰⁶	1.25x10 ⁻⁰⁴	5.01
<i>OAS1</i>	1.52	5.85	4.34	5.49x10 ⁻⁰⁵	3.56x10 ⁻⁰³	1.20
<i>ABCA5</i>	1.52	5.63	6.60	1.16x10 ⁻⁰⁸	2.46x10 ⁻⁰⁶	9.45
<i>MCTP1</i>	1.52	5.15	6.95	2.89x10 ⁻⁰⁹	7.32x10 ⁻⁰⁷	10.82
<i>APOE</i>	1.51	6.57	6.33	3.30x10 ⁻⁰⁸	6.15x10 ⁻⁰⁶	8.42
<i>KHDC4</i>	1.51	7.70	6.31	3.53x10 ⁻⁰⁸	6.49x10 ⁻⁰⁶	8.36
<i>DTX3L</i>	1.51	8.90	7.68	1.61x10 ⁻¹⁰	5.80x10 ⁻⁰⁸	13.67
<i>CTNNB1</i>	1.51	8.28	9.09	6.26x10 ⁻¹³	4.74x10 ⁻¹⁰	19.15
<i>DMXL2</i>	1.51	7.00	8.44	7.96x10 ⁻¹²	4.29x10 ⁻⁰⁹	16.63
<i>PRPF38B</i>	1.51	7.31	7.45	4.02x10 ⁻¹⁰	1.28x10 ⁻⁰⁷	12.76
<i>HSPBAP1</i>	1.50	6.22	6.82	4.89x10 ⁻⁰⁹	1.16x10 ⁻⁰⁶	10.30
<i>SDC2</i>	1.50	10.13	5.68	4.04x10 ⁻⁰⁷	5.39x10 ⁻⁰⁵	5.97
<i>DLX5</i>	1.50	7.33	4.15	1.05x10 ⁻⁰⁴	6.20x10 ⁻⁰³	0.58
<i>MSANTD2</i>	1.50	7.61	6.87	3.93x10 ⁻⁰⁹	9.55x10 ⁻⁰⁷	10.52
<i>MTERF3</i>	1.49	8.69	6.09	8.41x10 ⁻⁰⁸	1.40x10 ⁻⁰⁵	7.51
<i>DNM3OS</i>	1.49	7.29	4.45	3.69x10 ⁻⁰⁵	2.53x10 ⁻⁰³	1.58
<i>KANSL1</i>	1.49	7.88	8.96	1.05x10 ⁻¹²	7.44x10 ⁻¹⁰	18.63
<i>GIMAP8</i>	1.49	4.97	9.59	9.02x10 ⁻¹⁴	8.49x10 ⁻¹¹	21.06
<i>FERMT3</i>	1.49	6.82	5.49	8.49x10 ⁻⁰⁷	1.02x10 ⁻⁰⁴	5.25
<i>STAG2</i>	1.48	9.67	7.80	1.01x10 ⁻¹⁰	3.89x10 ⁻⁰⁸	14.13
<i>DPY19L2</i>	1.48	5.13	4.44	3.91x10 ⁻⁰⁵	2.65x10 ⁻⁰³	1.53
<i>GLUL</i>	1.48	8.04	6.56	1.33x10 ⁻⁰⁸	2.74x10 ⁻⁰⁶	9.32
<i>IFIT2</i>	1.48	6.63	4.57	2.46x10 ⁻⁰⁵	1.78x10 ⁻⁰³	1.98
<i>KLHL2</i>	1.48	8.28	7.41	4.77x10 ⁻¹⁰	1.49x10 ⁻⁰⁷	12.59
<i>CXADR</i>	1.48	5.00	4.67	1.69x10 ⁻⁰⁵	1.30x10 ⁻⁰³	2.34
<i>CHN2</i>	1.47	5.44	6.19	5.63x10 ⁻⁰⁸	9.83x10 ⁻⁰⁶	7.90
<i>DDX55</i>	1.47	6.21	7.43	4.44x10 ⁻¹⁰	1.40x10 ⁻⁰⁷	12.66
<i>PRKDC</i>	1.47	7.04	8.15	2.58x10 ⁻¹¹	1.19x10 ⁻⁰⁸	15.47
<i>FRG1BP</i>	1.47	5.53	6.79	5.41x10 ⁻⁰⁹	1.26x10 ⁻⁰⁶	10.20
<i>RAPGEF4</i>	1.46	4.27	6.59	1.20x10 ⁻⁰⁸	2.53x10 ⁻⁰⁶	9.42
<i>RUNX2</i>	1.46	7.14	7.61	2.17x10 ⁻¹⁰	7.49x10 ⁻⁰⁸	13.37
<i>ZNF136</i>	1.45	6.94	7.11	1.56x10 ⁻⁰⁹	4.25x10 ⁻⁰⁷	11.43
<i>IFI16</i>	1.45	9.67	6.32	3.49x10 ⁻⁰⁸	6.45x10 ⁻⁰⁶	8.37
<i>STEAP4</i>	1.45	5.14	4.53	2.80x10 ⁻⁰⁵	2.00x10 ⁻⁰³	1.85
<i>MRPS28</i>	1.45	8.67	6.53	1.51x10 ⁻⁰⁸	3.06x10 ⁻⁰⁶	9.20
<i>ITGB2</i>	1.45	6.69	6.48	1.87x10 ⁻⁰⁸	3.70x10 ⁻⁰⁶	8.98
<i>HIF0</i>	1.45	9.46	6.00	1.21x10 ⁻⁰⁷	1.91x10 ⁻⁰⁵	7.16
<i>HIST1H2BH</i>	1.45	6.27	4.45	3.80x10 ⁻⁰⁵	2.59x10 ⁻⁰³	1.56
<i>TMEM251</i>	1.45	8.19	6.55	1.42x10 ⁻⁰⁸	2.91x10 ⁻⁰⁶	9.25
<i>ECSCR</i>	1.45	6.43	5.76	3.04x10 ⁻⁰⁷	4.21x10 ⁻⁰⁵	6.25
<i>XAF1</i>	1.44	6.64	5.06	4.10x10 ⁻⁰⁶	3.86x10 ⁻⁰⁴	3.71
<i>TMEM65</i>	1.44	7.25	7.19	1.14x10 ⁻⁰⁹	3.26x10 ⁻⁰⁷	11.73
<i>NOL8</i>	1.44	8.05	6.58	1.22x10 ⁻⁰⁸	2.56x10 ⁻⁰⁶	9.40
<i>CD84</i>	1.44	5.66	6.88	3.86x10 ⁻⁰⁹	9.39x10 ⁻⁰⁷	10.54
<i>GOLGA4</i>	1.44	8.29	8.50	6.45x10 ⁻¹²	3.57x10 ⁻⁰⁹	16.84
<i>CORO1A</i>	1.43	6.44	4.21	8.46x10 ⁻⁰⁵	5.14x10 ⁻⁰³	0.79

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>MAF</i>	1.43	5.58	8.52	5.86x10 ⁻¹²	3.34x10 ⁻⁰⁹	16.94
<i>RAI2</i>	1.43	5.90	4.02	1.62x10 ⁻⁰⁴	8.98x10 ⁻⁰³	0.17
<i>IRF7</i>	1.43	7.04	5.29	1.77x10 ⁻⁰⁶	1.90x10 ⁻⁰⁴	4.53
<i>NCF4</i>	1.43	5.91	5.39	1.23x10 ⁻⁰⁶	1.39x10 ⁻⁰⁴	4.88
<i>NCKAP1L</i>	1.43	6.19	6.22	5.11x10 ⁻⁰⁸	9.06x10 ⁻⁰⁶	8.00
<i>FAM96A</i>	1.43	10.20	11.52	6.65x10 ⁻¹⁷	1.56x10 ⁻¹³	28.18
<i>FLT1</i>	1.43	5.77	11.16	2.49x10 ⁻¹⁶	4.80x10 ⁻¹³	26.88
<i>FAM217B</i>	1.43	7.31	5.86	2.06x10 ⁻⁰⁷	3.02x10 ⁻⁰⁵	6.63
<i>GPBP1L1</i>	1.43	7.54	10.27	6.79x10 ⁻¹⁵	8.51x10 ⁻¹²	23.62
<i>GIMAP1</i>	1.43	5.09	5.93	1.55x10 ⁻⁰⁷	2.36x10 ⁻⁰⁵	6.91
<i>NAMPT</i>	1.42	7.43	5.48	8.66x10 ⁻⁰⁷	1.03x10 ⁻⁰⁴	5.23
<i>RALGDS</i>	1.42	7.43	7.68	1.59x10 ⁻¹⁰	5.78x10 ⁻⁰⁸	13.68
<i>ACKR3</i>	1.42	5.61	7.10	1.58x10 ⁻⁰⁹	4.30x10 ⁻⁰⁷	11.42
<i>HMGN3</i>	1.42	10.92	7.42	4.47x10 ⁻¹⁰	1.41x10 ⁻⁰⁷	12.66
<i>TSPAN11</i>	1.42	6.81	4.44	3.83x10 ⁻⁰⁵	2.61x10 ⁻⁰³	1.55
<i>LSP1</i>	1.42	7.32	4.45	3.68x10 ⁻⁰⁵	2.53x10 ⁻⁰³	1.59
<i>TMEM176B</i>	1.42	6.00	6.04	1.04x10 ⁻⁰⁷	1.67x10 ⁻⁰⁵	7.30
<i>FNTB</i>	1.41	4.82	7.81	9.79x10 ⁻¹¹	3.82x10 ⁻⁰⁸	14.16
<i>ATP6V0B</i>	1.41	10.32	7.21	1.02x10 ⁻⁰⁹	2.97x10 ⁻⁰⁷	11.84
<i>PARM1</i>	1.41	5.83	4.68	1.66x10 ⁻⁰⁵	1.28x10 ⁻⁰³	2.36
<i>HSD17B11</i>	1.41	8.90	7.24	9.09x10 ⁻¹⁰	2.67x10 ⁻⁰⁷	11.96
<i>PTPN6</i>	1.41	6.43	5.10	3.61x10 ⁻⁰⁶	3.49x10 ⁻⁰⁴	3.84
<i>NSUN6</i>	1.41	5.77	7.07	1.79x10 ⁻⁰⁹	4.80x10 ⁻⁰⁷	11.29
<i>IRF8</i>	1.41	7.41	4.37	4.96x10 ⁻⁰⁵	3.28x10 ⁻⁰³	1.30
<i>CSRP2</i>	1.40	9.80	4.99	5.41x10 ⁻⁰⁶	4.88x10 ⁻⁰⁴	3.44
<i>GPR160</i>	1.40	5.28	6.98	2.58x10 ⁻⁰⁹	6.66x10 ⁻⁰⁷	10.93
<i>CD37</i>	1.40	4.93	4.29	6.54x10 ⁻⁰⁵	4.13x10 ⁻⁰³	1.04
<i>ACADM</i>	1.40	9.30	7.18	1.16x10 ⁻⁰⁹	3.29x10 ⁻⁰⁷	11.72
<i>SRSF11</i>	1.40	7.57	8.30	1.41x10 ⁻¹¹	7.01x10 ⁻⁰⁹	16.07
<i>LINC01355</i>	1.40	5.56	6.58	1.26x10 ⁻⁰⁸	2.62x10 ⁻⁰⁶	9.38
<i>A2M-AS1</i>	1.40	4.98	8.89	1.38x10 ⁻¹²	9.33x10 ⁻¹⁰	18.37
<i>S100A10</i>	1.39	9.44	4.80	1.06x10 ⁻⁰⁵	8.67x10 ⁻⁰⁴	2.79
<i>CNTN4</i>	1.39	4.88	4.80	1.07x10 ⁻⁰⁵	8.74x10 ⁻⁰⁴	2.78
<i>RPL29</i>	1.39	12.25	6.49	1.77x10 ⁻⁰⁸	3.53x10 ⁻⁰⁶	9.04
<i>PAG1</i>	1.39	5.91	4.61	2.15x10 ⁻⁰⁵	1.59x10 ⁻⁰³	2.11
<i>BCL11A</i>	1.39	6.19	4.56	2.51x10 ⁻⁰⁵	1.81x10 ⁻⁰³	1.96
<i>PIK3R1</i>	1.39	7.69	5.13	3.24x10 ⁻⁰⁶	3.16x10 ⁻⁰⁴	3.94
<i>FCGBP</i>	1.39	6.56	4.23	7.99x10 ⁻⁰⁵	4.90x10 ⁻⁰³	0.84
<i>EBLN2</i>	1.39	6.96	7.70	1.49x10 ⁻¹⁰	5.47x10 ⁻⁰⁸	13.74
<i>FZD3</i>	1.38	5.35	5.05	4.37x10 ⁻⁰⁶	4.08x10 ⁻⁰⁴	3.65
<i>CHD8</i>	1.38	7.53	10.15	1.08x10 ⁻¹⁴	1.28x10 ⁻¹¹	23.16
<i>MERTK</i>	1.38	5.31	9.71	5.86x10 ⁻¹⁴	5.97x10 ⁻¹¹	21.49
<i>CD53</i>	1.38	5.68	8.72	2.67x10 ⁻¹²	1.69x10 ⁻⁰⁹	17.71
<i>RASL12</i>	1.38	6.55	5.17	2.80x10 ⁻⁰⁶	2.80x10 ⁻⁰⁴	4.08
<i>STXBP6</i>	1.37	5.22	4.52	2.97x10 ⁻⁰⁵	2.10x10 ⁻⁰³	1.79
<i>NFKBIE</i>	1.37	6.62	5.99	1.23x10 ⁻⁰⁷	1.93x10 ⁻⁰⁵	7.14
<i>MMRN2</i>	1.37	5.20	8.77	2.20x10 ⁻¹²	1.41x10 ⁻⁰⁹	17.91
<i>EYA1</i>	1.37	5.54	4.96	6.10x10 ⁻⁰⁶	5.40x10 ⁻⁰⁴	3.33
<i>CKS2</i>	1.36	10.59	4.01	1.67x10 ⁻⁰⁴	9.22x10 ⁻⁰³	0.14

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>TTC32</i>	1.36	6.64	5.38	1.26x10 ⁻⁰⁶	1.41x10 ⁻⁰⁴	4.86
<i>SDHAF3</i>	1.36	7.03	6.00	1.21x10 ⁻⁰⁷	1.92x10 ⁻⁰⁵	7.15
<i>ATP6V1G1</i>	1.36	8.75	8.28	1.49x10 ⁻¹¹	7.36x10 ⁻⁰⁹	16.01
<i>TBC1D8</i>	1.36	6.85	6.80	5.24x10 ⁻⁰⁹	1.23x10 ⁻⁰⁶	10.23
<i>ZNF700</i>	1.36	6.32	5.28	1.86x10 ⁻⁰⁶	1.97x10 ⁻⁰⁴	4.48
<i>TREM2</i>	1.36	6.99	6.22	5.12x10 ⁻⁰⁸	9.06x10 ⁻⁰⁶	7.99
<i>ZNF559</i>	1.35	7.74	6.46	2.03x10 ⁻⁰⁸	3.99x10 ⁻⁰⁶	8.90
<i>MXI1</i>	1.35	9.23	5.47	8.99x10 ⁻⁰⁷	1.07x10 ⁻⁰⁴	5.19
<i>PDK4</i>	1.35	4.87	5.99	1.26x10 ⁻⁰⁷	1.98x10 ⁻⁰⁵	7.11
<i>PTGFRN</i>	1.35	7.76	4.41	4.26x10 ⁻⁰⁵	2.87x10 ⁻⁰³	1.45
<i>PLEKHA5</i>	1.35	6.53	12.48	2.14x10 ⁻¹⁸	7.15x10 ⁻¹⁵	31.57
<i>ST6GALNAC3</i>	1.35	4.83	5.11	3.40x10 ⁻⁰⁶	3.30x10 ⁻⁰⁴	3.89
<i>LPCAT1</i>	1.35	8.70	6.91	3.35x10 ⁻⁰⁹	8.28x10 ⁻⁰⁷	10.68
<i>MAP3K1</i>	1.34	5.72	8.89	1.37x10 ⁻¹²	9.33x10 ⁻¹⁰	18.37
<i>ANAPC16</i>	1.34	8.65	7.17	1.20x10 ⁻⁰⁹	3.38x10 ⁻⁰⁷	11.69
<i>HPSE</i>	1.34	5.30	6.19	5.62x10 ⁻⁰⁸	9.83x10 ⁻⁰⁶	7.90
<i>CHST6</i>	1.34	6.01	5.22	2.33x10 ⁻⁰⁶	2.39x10 ⁻⁰⁴	4.26
<i>UBE2QL1</i>	1.34	6.12	4.25	7.60x10 ⁻⁰⁵	4.70x10 ⁻⁰³	0.89
<i>TAPT1-AS1</i>	1.34	5.13	5.66	4.39x10 ⁻⁰⁷	5.79x10 ⁻⁰⁵	5.89
<i>CLEC5A</i>	1.34	4.51	4.73	1.40x10 ⁻⁰⁵	1.10x10 ⁻⁰³	2.52
<i>PCDHB14</i>	1.34	5.38	4.23	7.93x10 ⁻⁰⁵	4.87x10 ⁻⁰³	0.85
<i>CLEC14A</i>	1.34	6.66	7.86	7.97x10 ⁻¹¹	3.18x10 ⁻⁰⁸	14.36
<i>P2RY8</i>	1.33	5.49	5.53	7.09x10 ⁻⁰⁷	8.72x10 ⁻⁰⁵	5.42
<i>ABCA1</i>	1.33	6.27	7.49	3.45x10 ⁻¹⁰	1.12x10 ⁻⁰⁷	12.92
<i>RPS6KA3</i>	1.33	8.23	8.31	1.35x10 ⁻¹¹	6.80x10 ⁻⁰⁹	16.11
<i>TMEM38B</i>	1.33	6.95	5.33	1.54x10 ⁻⁰⁶	1.68x10 ⁻⁰⁴	4.67
<i>EPHA3</i>	1.33	5.18	5.02	4.85x10 ⁻⁰⁶	4.46x10 ⁻⁰⁴	3.55
<i>HPGDS</i>	1.33	5.49	4.93	6.68x10 ⁻⁰⁶	5.84x10 ⁻⁰⁴	3.24
<i>HHEX</i>	1.33	5.61	6.93	3.12x10 ⁻⁰⁹	7.80x10 ⁻⁰⁷	10.75
<i>COL1A2</i>	1.33	12.97	6.40	2.55x10 ⁻⁰⁸	4.91x10 ⁻⁰⁶	8.68
<i>TPRKB</i>	1.32	8.86	5.02	4.84x10 ⁻⁰⁶	4.46x10 ⁻⁰⁴	3.55
<i>SNORD89</i>	1.32	6.22	6.94	2.99x10 ⁻⁰⁹	7.56x10 ⁻⁰⁷	10.79
<i>PFDN5</i>	1.32	11.31	7.81	9.66x10 ⁻¹¹	3.78x10 ⁻⁰⁸	14.17
<i>TBX15</i>	1.32	6.51	6.05	9.91x10 ⁻⁰⁸	1.61x10 ⁻⁰⁵	7.35
<i>EBAG9</i>	1.32	8.01	6.46	2.02x10 ⁻⁰⁸	3.98x10 ⁻⁰⁶	8.91
<i>PAN2</i>	1.32	6.56	5.27	1.91x10 ⁻⁰⁶	2.02x10 ⁻⁰⁴	4.45
<i>WNK3</i>	1.32	5.34	5.49	8.37x10 ⁻⁰⁷	1.01x10 ⁻⁰⁴	5.26
<i>IQGAP2</i>	1.31	4.91	8.29	1.47x10 ⁻¹¹	7.28x10 ⁻⁰⁹	16.03
<i>RASEF</i>	1.31	5.73	6.48	1.84x10 ⁻⁰⁸	3.65x10 ⁻⁰⁶	9.00
<i>LOC101927451</i>	1.31	5.61	6.16	6.36x10 ⁻⁰⁸	1.10x10 ⁻⁰⁵	7.78
<i>RNF125</i>	1.31	4.56	5.60	5.56x10 ⁻⁰⁷	7.10x10 ⁻⁰⁵	5.66
<i>ZNF721</i>	1.31	9.03	8.89	1.38x10 ⁻¹²	9.33x10 ⁻¹⁰	18.37
<i>PTPRO</i>	1.31	6.57	10.44	3.64x10 ⁻¹⁵	4.88x10 ⁻¹²	24.23
<i>RAMP3</i>	1.31	6.60	5.12	3.31x10 ⁻⁰⁶	3.23x10 ⁻⁰⁴	3.92
<i>RPS27</i>	1.30	9.73	7.16	1.29x10 ⁻⁰⁹	3.59x10 ⁻⁰⁷	11.62
<i>MTERF2</i>	1.30	6.20	6.46	1.99x10 ⁻⁰⁸	3.91x10 ⁻⁰⁶	8.92
<i>LINC01003</i>	1.30	6.01	4.48	3.38x10 ⁻⁰⁵	2.34x10 ⁻⁰³	1.67
<i>SASH3</i>	1.30	6.16	4.87	8.38x10 ⁻⁰⁶	7.12x10 ⁻⁰⁴	3.02
<i>FYB1</i>	1.30	5.37	5.48	8.62x10 ⁻⁰⁷	1.03x10 ⁻⁰⁴	5.23

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>ABCB4</i>	1.30	5.13	5.85	2.13x10 ⁻⁰⁷	3.11x10 ⁻⁰⁵	6.60
<i>DENND1B</i>	1.30	5.55	9.11	5.82x10 ⁻¹³	4.42x10 ⁻¹⁰	19.22
<i>LOC389765</i>	1.29	4.80	4.96	5.99x10 ⁻⁰⁶	5.32x10 ⁻⁰⁴	3.34
<i>KIAA1551</i>	1.29	5.98	6.28	4.01x10 ⁻⁰⁸	7.28x10 ⁻⁰⁶	8.23
<i>MCM3</i>	1.29	8.79	5.15	2.96x10 ⁻⁰⁶	2.92x10 ⁻⁰⁴	4.03
<i>WSB1</i>	1.29	7.49	6.32	3.50x10 ⁻⁰⁸	6.46x10 ⁻⁰⁶	8.37
<i>ATP5ME</i>	1.29	10.37	5.76	3.04x10 ⁻⁰⁷	4.21x10 ⁻⁰⁵	6.25
<i>MPPED2</i>	1.29	4.82	4.97	5.79x10 ⁻⁰⁶	5.17x10 ⁻⁰⁴	3.38
<i>LST1</i>	1.29	6.67	6.83	4.65x10 ⁻⁰⁹	1.11x10 ⁻⁰⁶	10.35
<i>C12orf57</i>	1.29	10.71	5.04	4.55x10 ⁻⁰⁶	4.22x10 ⁻⁰⁴	3.61
<i>PDIK1L</i>	1.29	6.85	5.17	2.80x10 ⁻⁰⁶	2.80x10 ⁻⁰⁴	4.08
<i>IFNGR1</i>	1.29	7.96	7.85	8.40x10 ⁻¹¹	3.33x10 ⁻⁰⁸	14.31
<i>LOC100996756</i>	1.29	5.52	5.08	3.90x10 ⁻⁰⁶	3.71x10 ⁻⁰⁴	3.76
<i>RGL1</i>	1.29	9.32	6.01	1.16x10 ⁻⁰⁷	1.85x10 ⁻⁰⁵	7.19
<i>KLHL15</i>	1.29	7.21	4.46	3.66x10 ⁻⁰⁵	2.51x10 ⁻⁰³	1.59
<i>PLCL2</i>	1.29	5.55	10.34	5.22x10 ⁻¹⁵	6.70x10 ⁻¹²	23.88
<i>LIPA</i>	1.28	10.28	6.48	1.84x10 ⁻⁰⁸	3.64x10 ⁻⁰⁶	9.00
<i>RNPC3</i>	1.28	6.18	8.64	3.72x10 ⁻¹²	2.26x10 ⁻⁰⁹	17.39
<i>JAG2</i>	1.28	6.91	6.58	1.26x10 ⁻⁰⁸	2.62x10 ⁻⁰⁶	9.37
<i>HIST1H2BE</i>	1.28	6.84	4.31	6.20x10 ⁻⁰⁵	3.95x10 ⁻⁰³	1.09
<i>PSAP</i>	1.28	11.28	5.99	1.24x10 ⁻⁰⁷	1.94x10 ⁻⁰⁵	7.13
<i>LINC01560</i>	1.28	4.94	5.05	4.32x10 ⁻⁰⁶	4.03x10 ⁻⁰⁴	3.66
<i>NRARP</i>	1.27	6.49	9.25	3.42x10 ⁻¹³	2.79x10 ⁻¹⁰	19.74
<i>KYNU</i>	1.27	5.43	5.49	8.47x10 ⁻⁰⁷	1.02x10 ⁻⁰⁴	5.25
<i>ITPR1</i>	1.27	5.78	5.15	2.99x10 ⁻⁰⁶	2.95x10 ⁻⁰⁴	4.02
<i>C1orf112</i>	1.27	5.69	4.85	8.96x10 ⁻⁰⁶	7.55x10 ⁻⁰⁴	2.95
<i>ZBTB8A</i>	1.27	8.56	4.43	4.03x10 ⁻⁰⁵	2.73x10 ⁻⁰³	1.50
<i>NIPBL</i>	1.27	7.50	8.48	6.87x10 ⁻¹²	3.76x10 ⁻⁰⁹	16.78
<i>TIE1</i>	1.27	4.69	10.93	5.85x10 ⁻¹⁶	1.02x10 ⁻¹²	26.04
<i>VWF</i>	1.27	6.53	6.45	2.11x10 ⁻⁰⁸	4.11x10 ⁻⁰⁶	8.87
<i>LGALS1</i>	1.27	6.71	7.59	2.34x10 ⁻¹⁰	7.94x10 ⁻⁰⁸	13.30
<i>ND2</i>	1.27	13.14	6.45	2.03x10 ⁻⁰⁸	4.00x10 ⁻⁰⁶	8.90
<i>DLEU2</i>	1.27	5.16	9.07	6.87x10 ⁻¹³	5.10x10 ⁻¹⁰	19.06
<i>LAIR1</i>	1.27	6.55	6.51	1.66x10 ⁻⁰⁸	3.33x10 ⁻⁰⁶	9.10
<i>GRK3</i>	1.27	6.22	6.60	1.14x10 ⁻⁰⁸	2.42x10 ⁻⁰⁶	9.47
<i>FRMD4B</i>	1.27	4.49	13.02	3.25x10 ⁻¹⁹	1.47x10 ⁻¹⁵	33.43
<i>KIAA0040</i>	1.26	6.33	5.09	3.67x10 ⁻⁰⁶	3.53x10 ⁻⁰⁴	3.82
<i>COL27A1</i>	1.26	6.46	5.37	1.32x10 ⁻⁰⁶	1.46x10 ⁻⁰⁴	4.82
<i>METTL7A</i>	1.26	6.37	8.13	2.77x10 ⁻¹¹	1.26x10 ⁻⁰⁸	15.40
<i>VAV3</i>	1.26	5.01	7.17	1.20x10 ⁻⁰⁹	3.39x10 ⁻⁰⁷	11.69
<i>NACA</i>	1.26	10.63	9.09	6.48x10 ⁻¹³	4.88x10 ⁻¹⁰	19.11
<i>FAM69C</i>	1.26	6.83	4.44	3.92x10 ⁻⁰⁵	2.66x10 ⁻⁰³	1.53
<i>TTC14</i>	1.26	6.38	7.69	1.57x10 ⁻¹⁰	5.71x10 ⁻⁰⁸	13.69
<i>I-Mar</i>	1.26	5.13	5.60	5.59x10 ⁻⁰⁷	7.12x10 ⁻⁰⁵	5.65
<i>MSR1</i>	1.26	5.11	7.19	1.11x10 ⁻⁰⁹	3.17x10 ⁻⁰⁷	11.76
<i>SATB1</i>	1.26	5.94	6.91	3.41x10 ⁻⁰⁹	8.42x10 ⁻⁰⁷	10.66
<i>KDM7A</i>	1.25	5.91	6.62	1.05x10 ⁻⁰⁸	2.26x10 ⁻⁰⁶	9.56
<i>CD163L1</i>	1.25	6.66	4.15	1.05x10 ⁻⁰⁴	6.20x10 ⁻⁰³	0.58
<i>NOP58</i>	1.25	10.44	6.59	1.19x10 ⁻⁰⁸	2.51x10 ⁻⁰⁶	9.43

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>LARP7</i>	1.25	6.25	9.89	2.89x10 ⁻¹⁴	3.12x10 ⁻¹¹	22.19
<i>CARD8-AS1</i>	1.25	5.42	7.93	6.07x10 ⁻¹¹	2.49x10 ⁻⁰⁸	14.63
<i>PBX1</i>	1.25	7.05	5.27	1.89x10 ⁻⁰⁶	2.00x10 ⁻⁰⁴	4.47
<i>SLC16A14</i>	1.25	4.67	5.20	2.50x10 ⁻⁰⁶	2.53x10 ⁻⁰⁴	4.19
<i>TERF1</i>	1.25	7.95	7.55	2.72x10 ⁻¹⁰	9.08x10 ⁻⁰⁸	13.15
<i>TDRD3</i>	1.25	6.56	4.76	1.25x10 ⁻⁰⁵	9.96x10 ⁻⁰⁴	2.63
<i>BMP2K</i>	1.25	5.83	7.92	6.22x10 ⁻¹¹	2.54x10 ⁻⁰⁸	14.60
<i>UBA52</i>	1.25	12.29	7.67	1.68x10 ⁻¹⁰	6.02x10 ⁻⁰⁸	13.62
<i>LCP2</i>	1.25	4.89	7.22	1.01x10 ⁻⁰⁹	2.93x10 ⁻⁰⁷	11.86
<i>ETS2</i>	1.25	5.85	8.65	3.55x10 ⁻¹²	2.17x10 ⁻⁰⁹	17.43
<i>FCGRT</i>	1.25	8.70	5.94	1.50x10 ⁻⁰⁷	2.29x10 ⁻⁰⁵	6.94
<i>PIK3C2B</i>	1.24	7.39	6.13	7.09x10 ⁻⁰⁸	1.20x10 ⁻⁰⁵	7.68
<i>LOC728613</i>	1.24	6.22	5.44	9.99x10 ⁻⁰⁷	1.17x10 ⁻⁰⁴	5.09
<i>SEMA4D</i>	1.24	5.37	5.47	8.96x10 ⁻⁰⁷	1.06x10 ⁻⁰⁴	5.19
<i>TRAPPC10</i>	1.24	5.91	7.29	7.55x10 ⁻¹⁰	2.27x10 ⁻⁰⁷	12.14
<i>RWDD3</i>	1.24	8.43	5.09	3.72x10 ⁻⁰⁶	3.57x10 ⁻⁰⁴	3.81
<i>NR1H3</i>	1.24	5.90	4.94	6.51x10 ⁻⁰⁶	5.71x10 ⁻⁰⁴	3.26
<i>RB1CC1</i>	1.24	8.78	6.72	7.25x10 ⁻⁰⁹	1.64x10 ⁻⁰⁶	9.92
<i>MYO1F</i>	1.24	6.60	4.99	5.29x10 ⁻⁰⁶	4.79x10 ⁻⁰⁴	3.47
<i>RPL23AP32</i>	1.24	6.38	6.61	1.12x10 ⁻⁰⁸	2.39x10 ⁻⁰⁶	9.49
<i>CEP68</i>	1.24	6.55	9.45	1.56x10 ⁻¹³	1.36x10 ⁻¹⁰	20.52
<i>RTP4</i>	1.24	5.39	4.36	5.20x10 ⁻⁰⁵	3.41x10 ⁻⁰³	1.26
<i>S1PR3</i>	1.24	7.64	4.85	9.11x10 ⁻⁰⁶	7.66x10 ⁻⁰⁴	2.94
<i>DDX60L</i>	1.24	6.14	8.02	4.27x10 ⁻¹¹	1.86x10 ⁻⁰⁸	14.98
<i>WDR11</i>	1.24	7.78	6.87	4.01x10 ⁻⁰⁹	9.72x10 ⁻⁰⁷	10.50
<i>PRR11</i>	1.24	10.08	6.47	1.93x10 ⁻⁰⁸	3.82x10 ⁻⁰⁶	8.95
<i>SLC37A2</i>	1.24	6.04	4.64	1.91x10 ⁻⁰⁵	1.44x10 ⁻⁰³	2.22
<i>DDIT3</i>	1.24	8.50	4.33	5.69x10 ⁻⁰⁵	3.67x10 ⁻⁰³	1.17
<i>GABRB2</i>	1.24	5.57	5.34	1.46x10 ⁻⁰⁶	1.60x10 ⁻⁰⁴	4.72
<i>RETREG1</i>	1.24	4.97	6.39	2.58x10 ⁻⁰⁸	4.96x10 ⁻⁰⁶	8.67
<i>FAM49A</i>	1.24	5.32	8.04	3.94x10 ⁻¹¹	1.73x10 ⁻⁰⁸	15.06
<i>SNRPD2</i>	1.24	11.33	4.82	9.93x10 ⁻⁰⁶	8.22x10 ⁻⁰⁴	2.85
<i>VPS13C</i>	1.23	5.93	10.78	1.01x10 ⁻¹⁵	1.65x10 ⁻¹²	25.50
<i>PAPD4</i>	1.23	6.72	5.98	1.29x10 ⁻⁰⁷	2.01x10 ⁻⁰⁵	7.09
<i>BTG1</i>	1.23	8.38	8.92	1.22x10 ⁻¹²	8.50x10 ⁻¹⁰	18.48
<i>FANCL</i>	1.23	7.98	4.52	2.96x10 ⁻⁰⁵	2.09x10 ⁻⁰³	1.80
<i>ZCCHC7</i>	1.23	6.30	7.46	3.94x10 ⁻¹⁰	1.26x10 ⁻⁰⁷	12.78
<i>OXR1</i>	1.23	7.06	5.80	2.55x10 ⁻⁰⁷	3.62x10 ⁻⁰⁵	6.42
<i>ZNF608</i>	1.22	5.63	7.95	5.61x10 ⁻¹¹	2.36x10 ⁻⁰⁸	14.71
<i>TMEM241</i>	1.22	8.47	7.85	8.13x10 ⁻¹¹	3.23x10 ⁻⁰⁸	14.34
<i>HES4</i>	1.22	6.83	4.63	1.95x10 ⁻⁰⁵	1.47x10 ⁻⁰³	2.20
<i>POT1</i>	1.22	7.48	5.61	5.41x10 ⁻⁰⁷	6.92x10 ⁻⁰⁵	5.69
<i>SMIM19</i>	1.22	9.17	5.07	4.01x10 ⁻⁰⁶	3.79x10 ⁻⁰⁴	3.73
<i>N4BP2L2</i>	1.22	6.81	6.34	3.14x10 ⁻⁰⁸	5.89x10 ⁻⁰⁶	8.47
<i>ZNF207</i>	1.22	7.37	9.51	1.24x10 ⁻¹³	1.12x10 ⁻¹⁰	20.75
<i>SUZ12P1</i>	1.22	5.03	7.21	1.03x10 ⁻⁰⁹	2.97x10 ⁻⁰⁷	11.84
<i>RPS6KA1</i>	1.22	5.36	5.57	6.09x10 ⁻⁰⁷	7.63x10 ⁻⁰⁵	5.57
<i>CREG1</i>	1.22	10.38	4.44	3.82x10 ⁻⁰⁵	2.61x10 ⁻⁰³	1.55
<i>LOC100287896</i>	1.22	5.36	4.66	1.81x10 ⁻⁰⁵	1.37x10 ⁻⁰³	2.27

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>ISG20</i>	1.22	6.35	4.58	2.38x10 ⁻⁰⁵	1.73x10 ⁻⁰³	2.01
<i>COA5</i>	1.22	7.71	6.98	2.59x10 ⁻⁰⁹	6.67x10 ⁻⁰⁷	10.93
<i>RAB33B</i>	1.22	6.32	6.12	7.44x10 ⁻⁰⁸	1.25x10 ⁻⁰⁵	7.63
<i>ADAMTS9</i>	1.22	5.72	6.52	1.59x10 ⁻⁰⁸	3.20x10 ⁻⁰⁶	9.15
<i>BIRC3</i>	1.22	5.02	4.06	1.45x10 ⁻⁰⁴	8.19x10 ⁻⁰³	0.27
<i>TNIK</i>	1.22	5.74	6.84	4.52x10 ⁻⁰⁹	1.08x10 ⁻⁰⁶	10.38
<i>LAMTOR2</i>	1.21	8.36	5.83	2.33x10 ⁻⁰⁷	3.36x10 ⁻⁰⁵	6.51
<i>GJA4</i>	1.21	6.37	6.77	5.86x10 ⁻⁰⁹	1.36x10 ⁻⁰⁶	10.12
<i>ZNF493</i>	1.21	5.46	8.63	3.82x10 ⁻¹²	2.30x10 ⁻⁰⁹	17.36
<i>NRDC</i>	1.21	8.00	7.29	7.73x10 ⁻¹⁰	2.31x10 ⁻⁰⁷	12.12
<i>PDE4DIP</i>	1.21	6.38	4.98	5.64x10 ⁻⁰⁶	5.06x10 ⁻⁰⁴	3.40
<i>ZNF595</i>	1.21	4.61	5.55	6.67x10 ⁻⁰⁷	8.24x10 ⁻⁰⁵	5.48
<i>OTUD6B</i>	1.21	7.12	5.38	1.25x10 ⁻⁰⁶	1.40x10 ⁻⁰⁴	4.87
<i>RBBP4</i>	1.21	7.28	6.80	5.23x10 ⁻⁰⁹	1.22x10 ⁻⁰⁶	10.24
<i>FUBP1</i>	1.21	6.67	7.74	1.27x10 ⁻¹⁰	4.75x10 ⁻⁰⁸	13.90
<i>TLR5</i>	1.21	6.15	5.89	1.83x10 ⁻⁰⁷	2.72x10 ⁻⁰⁵	6.75
<i>DNAAF2</i>	1.20	7.04	5.70	3.83x10 ⁻⁰⁷	5.16x10 ⁻⁰⁵	6.02
<i>LOC153684</i>	1.20	7.01	6.29	3.90x10 ⁻⁰⁸	7.11x10 ⁻⁰⁶	8.26
<i>TBC1D4</i>	1.20	7.79	6.41	2.44x10 ⁻⁰⁸	4.71x10 ⁻⁰⁶	8.72
<i>LINS1</i>	1.20	5.83	6.71	7.41x10 ⁻⁰⁹	1.67x10 ⁻⁰⁶	9.89
<i>RBM6</i>	1.20	6.65	6.72	7.29x10 ⁻⁰⁹	1.65x10 ⁻⁰⁶	9.91
<i>GMCL1</i>	1.20	6.96	5.48	8.64x10 ⁻⁰⁷	1.03x10 ⁻⁰⁴	5.23
<i>NPIP15</i>	1.20	6.54	5.60	5.58x10 ⁻⁰⁷	7.11x10 ⁻⁰⁵	5.66
<i>SPNS2</i>	1.20	6.53	5.51	7.83x10 ⁻⁰⁷	9.50x10 ⁻⁰⁵	5.32
<i>C11orf54</i>	1.20	6.56	8.38	1.03x10 ⁻¹¹	5.33x10 ⁻⁰⁹	16.38
<i>ZNF140</i>	1.20	6.96	4.67	1.73x10 ⁻⁰⁵	1.32x10 ⁻⁰³	2.32
<i>CD58</i>	1.20	6.36	7.25	8.86x10 ⁻¹⁰	2.61x10 ⁻⁰⁷	11.98
<i>SPTSSA</i>	1.20	8.15	5.92	1.62x10 ⁻⁰⁷	2.45x10 ⁻⁰⁵	6.87
<i>DISP1</i>	1.20	6.09	5.91	1.69x10 ⁻⁰⁷	2.54x10 ⁻⁰⁵	6.82
<i>PPP1CB</i>	1.20	10.00	6.56	1.33x10 ⁻⁰⁸	2.74x10 ⁻⁰⁶	9.32
<i>RAPGEF2</i>	1.20	6.66	6.47	1.89x10 ⁻⁰⁸	3.73x10 ⁻⁰⁶	8.98
<i>NHLRC3</i>	1.20	5.76	6.84	4.42x10 ⁻⁰⁹	1.06x10 ⁻⁰⁶	10.40
<i>SMA4</i>	1.19	5.86	6.38	2.74x10 ⁻⁰⁸	5.23x10 ⁻⁰⁶	8.61
<i>TTYH2</i>	1.19	6.11	7.84	8.68x10 ⁻¹¹	3.42x10 ⁻⁰⁸	14.28
<i>GON7</i>	1.19	7.41	4.97	5.74x10 ⁻⁰⁶	5.14x10 ⁻⁰⁴	3.39
<i>DAPK1-IT1</i>	1.19	5.48	4.24	7.84x10 ⁻⁰⁵	4.82x10 ⁻⁰³	0.86
<i>REL</i>	1.19	5.13	7.37	5.47x10 ⁻¹⁰	1.68x10 ⁻⁰⁷	12.46
<i>SRFBP1</i>	1.19	6.48	4.74	1.35x10 ⁻⁰⁵	1.07x10 ⁻⁰³	2.56
<i>DRAM2</i>	1.19	7.99	7.39	5.05x10 ⁻¹⁰	1.56x10 ⁻⁰⁷	12.54
<i>SORL1</i>	1.19	5.73	5.27	1.92x10 ⁻⁰⁶	2.02x10 ⁻⁰⁴	4.45
<i>EIF1AX</i>	1.19	9.28	6.04	1.02x10 ⁻⁰⁷	1.65x10 ⁻⁰⁵	7.32
<i>PTRHD1</i>	1.19	9.18	5.46	9.26x10 ⁻⁰⁷	1.09x10 ⁻⁰⁴	5.16
<i>NEMP1</i>	1.19	6.40	4.09	1.29x10 ⁻⁰⁴	7.40x10 ⁻⁰³	0.39
<i>ROR2</i>	1.19	5.88	7.42	4.51x10 ⁻¹⁰	1.42x10 ⁻⁰⁷	12.65
<i>OPHN1</i>	1.18	10.19	6.91	3.47x10 ⁻⁰⁹	8.53x10 ⁻⁰⁷	10.64
<i>CRTAM</i>	1.18	4.38	4.02	1.61x10 ⁻⁰⁴	8.97x10 ⁻⁰³	0.17
<i>JUNB</i>	1.18	7.96	4.54	2.71x10 ⁻⁰⁵	1.94x10 ⁻⁰³	1.88
<i>RNF19A</i>	1.18	7.30	6.92	3.29x10 ⁻⁰⁹	8.16x10 ⁻⁰⁷	10.69
<i>ARRB2</i>	1.18	6.47	6.18	5.93x10 ⁻⁰⁸	1.03x10 ⁻⁰⁵	7.85

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>ZNF195</i>	1.18	6.46	5.23	2.19x10 ⁻⁰⁶	2.27x10 ⁻⁰⁴	4.32
<i>HAUS3</i>	1.18	7.26	5.85	2.16x10 ⁻⁰⁷	3.14x10 ⁻⁰⁵	6.59
<i>COPS3</i>	1.18	9.51	3.99	1.80x10 ⁻⁰⁴	9.80x10 ⁻⁰³	0.07
<i>FILIP1</i>	1.18	4.38	4.19	9.16x10 ⁻⁰⁵	5.52x10 ⁻⁰³	0.71
<i>DNAJC7</i>	1.18	7.47	7.28	7.77x10 ⁻¹⁰	2.32x10 ⁻⁰⁷	12.11
<i>RPA3</i>	1.18	9.50	4.89	7.90x10 ⁻⁰⁶	6.76x10 ⁻⁰⁴	3.08
<i>RSBN1</i>	1.18	7.29	6.98	2.62x10 ⁻⁰⁹	6.75x10 ⁻⁰⁷	10.92
<i>DSN1</i>	1.18	7.14	4.84	9.36x10 ⁻⁰⁶	7.83x10 ⁻⁰⁴	2.91
<i>F11R</i>	1.18	5.61	7.76	1.18x10 ⁻¹⁰	4.47x10 ⁻⁰⁸	13.97
<i>ELOA-AS1</i>	1.17	6.69	5.44	1.01x10 ⁻⁰⁶	1.18x10 ⁻⁰⁴	5.07
<i>FASTKD1</i>	1.17	8.49	6.67	8.78x10 ⁻⁰⁹	1.94x10 ⁻⁰⁶	9.73
<i>ZNF121</i>	1.17	8.71	5.98	1.30x10 ⁻⁰⁷	2.02x10 ⁻⁰⁵	7.08
<i>DUS1L</i>	1.17	8.10	7.02	2.23x10 ⁻⁰⁹	5.84x10 ⁻⁰⁷	11.08
<i>TLR7</i>	1.17	5.25	6.06	9.47x10 ⁻⁰⁸	1.55x10 ⁻⁰⁵	7.39
<i>SND1-IT1</i>	1.17	6.55	5.59	5.71x10 ⁻⁰⁷	7.24x10 ⁻⁰⁵	5.63
<i>TMA7</i>	1.17	12.25	6.80	5.24x10 ⁻⁰⁹	1.23x10 ⁻⁰⁶	10.23
<i>JAM2</i>	1.17	6.90	4.07	1.37x10 ⁻⁰⁴	7.81x10 ⁻⁰³	0.32
<i>SDHAF2</i>	1.17	7.56	6.79	5.41x10 ⁻⁰⁹	1.26x10 ⁻⁰⁶	10.20
<i>PLEKHF2</i>	1.17	7.24	5.38	1.25x10 ⁻⁰⁶	1.40x10 ⁻⁰⁴	4.87
<i>ZNF665</i>	1.17	7.92	7.58	2.42x10 ⁻¹⁰	8.15x10 ⁻⁰⁸	13.26
<i>STAB1</i>	1.17	5.97	7.75	1.22x10 ⁻¹⁰	4.62x10 ⁻⁰⁸	13.94
<i>GPX7</i>	1.17	8.26	4.24	7.87x10 ⁻⁰⁵	4.84x10 ⁻⁰³	0.86
<i>PNISR</i>	1.17	7.25	6.74	6.76x10 ⁻⁰⁹	1.54x10 ⁻⁰⁶	9.98
<i>SLC12A7</i>	1.17	9.02	5.84	2.18x10 ⁻⁰⁷	3.17x10 ⁻⁰⁵	6.58
<i>DOCK8</i>	1.16	4.52	6.61	1.11x10 ⁻⁰⁸	2.38x10 ⁻⁰⁶	9.49
<i>TPD52</i>	1.16	4.75	4.35	5.31x10 ⁻⁰⁵	3.46x10 ⁻⁰³	1.24
<i>GABPB1-AS1</i>	1.16	5.61	5.43	1.03x10 ⁻⁰⁶	1.20x10 ⁻⁰⁴	5.06
<i>UBXN2A</i>	1.16	9.09	8.02	4.29x10 ⁻¹¹	1.87x10 ⁻⁰⁸	14.97
<i>ANKRD49</i>	1.16	7.69	6.38	2.67x10 ⁻⁰⁸	5.12x10 ⁻⁰⁶	8.63
<i>PCMTD2</i>	1.16	6.33	8.16	2.45x10 ⁻¹¹	1.14x10 ⁻⁰⁸	15.52
<i>TCF7</i>	1.16	6.63	7.68	1.60x10 ⁻¹⁰	5.78x10 ⁻⁰⁸	13.67
<i>AHSA2P</i>	1.16	6.13	5.99	1.23x10 ⁻⁰⁷	1.94x10 ⁻⁰⁵	7.14
<i>MYO1D</i>	1.16	5.23	5.29	1.80x10 ⁻⁰⁶	1.92x10 ⁻⁰⁴	4.51
<i>CST3</i>	1.16	7.41	5.61	5.37x10 ⁻⁰⁷	6.88x10 ⁻⁰⁵	5.69
<i>ITPR2</i>	1.16	5.82	6.72	7.17x10 ⁻⁰⁹	1.63x10 ⁻⁰⁶	9.93
<i>PRKCH</i>	1.16	6.11	6.05	9.89x10 ⁻⁰⁸	1.61x10 ⁻⁰⁵	7.35
<i>BTK</i>	1.15	5.24	5.61	5.37x10 ⁻⁰⁷	6.88x10 ⁻⁰⁵	5.69
<i>SON</i>	1.15	9.41	8.20	2.06x10 ⁻¹¹	9.89x10 ⁻⁰⁹	15.69
<i>LRRC15</i>	1.15	7.16	4.09	1.31x10 ⁻⁰⁴	7.52x10 ⁻⁰³	0.37
<i>ANKRD10</i>	1.15	5.87	7.15	1.34x10 ⁻⁰⁹	3.71x10 ⁻⁰⁷	11.58
<i>RPS7</i>	1.15	12.77	7.92	6.18x10 ⁻¹¹	2.53x10 ⁻⁰⁸	14.61
<i>APOL6</i>	1.15	5.72	4.98	5.64x10 ⁻⁰⁶	5.06x10 ⁻⁰⁴	3.40
<i>PREX1</i>	1.15	7.30	4.61	2.11x10 ⁻⁰⁵	1.57x10 ⁻⁰³	2.12
<i>KCNE3</i>	1.15	5.46	11.57	5.48x10 ⁻¹⁷	1.30x10 ⁻¹³	28.37
<i>INTS6L</i>	1.15	5.51	5.73	3.42x10 ⁻⁰⁷	4.65x10 ⁻⁰⁵	6.14
<i>RBM39</i>	1.15	8.17	8.54	5.37x10 ⁻¹²	3.09x10 ⁻⁰⁹	17.02
<i>ACOT13</i>	1.15	8.17	5.18	2.69x10 ⁻⁰⁶	2.70x10 ⁻⁰⁴	4.12
<i>CCNL2</i>	1.15	7.82	6.15	6.77x10 ⁻⁰⁸	1.16x10 ⁻⁰⁵	7.72
<i>JTB</i>	1.15	11.48	7.16	1.29x10 ⁻⁰⁹	3.59x10 ⁻⁰⁷	11.62

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>LPAR6</i>	1.15	5.92	10.75	1.11x10 ⁻¹⁵	1.76x10 ⁻¹²	25.40
<i>ASAP1-IT1</i>	1.15	6.99	4.70	1.54x10 ⁻⁰⁵	1.20x10 ⁻⁰³	2.43
<i>RPL23A</i>	1.15	13.52	6.89	3.65x10 ⁻⁰⁹	8.93x10 ⁻⁰⁷	10.59
<i>ABCG1</i>	1.15	5.03	6.12	7.43x10 ⁻⁰⁸	1.25x10 ⁻⁰⁵	7.63
<i>HLA-B</i>	1.15	11.91	5.46	9.49x10 ⁻⁰⁷	1.11x10 ⁻⁰⁴	5.14
<i>TAF12</i>	1.15	7.64	5.62	5.17x10 ⁻⁰⁷	6.66x10 ⁻⁰⁵	5.73
<i>ZNF184</i>	1.14	6.87	4.08	1.33x10 ⁻⁰⁴	7.64x10 ⁻⁰³	0.35
<i>BAZ2B</i>	1.14	7.86	5.50	7.99x10 ⁻⁰⁷	9.68x10 ⁻⁰⁵	5.31
<i>FGFR1</i>	1.14	7.75	6.56	1.35x10 ⁻⁰⁸	2.78x10 ⁻⁰⁶	9.30
<i>ZNF791</i>	1.14	7.98	5.43	1.06x10 ⁻⁰⁶	1.23x10 ⁻⁰⁴	5.03
<i>RPS6KA5</i>	1.14	5.05	6.58	1.26x10 ⁻⁰⁸	2.62x10 ⁻⁰⁶	9.37
<i>GLMN</i>	1.14	6.95	5.25	2.09x10 ⁻⁰⁶	2.18x10 ⁻⁰⁴	4.37
<i>SMC4</i>	1.14	8.07	5.39	1.23x10 ⁻⁰⁶	1.39x10 ⁻⁰⁴	4.88
<i>PALD1</i>	1.14	5.89	6.18	5.94x10 ⁻⁰⁸	1.03x10 ⁻⁰⁵	7.85
<i>C9orf64</i>	1.14	9.05	7.31	7.14x10 ⁻¹⁰	2.15x10 ⁻⁰⁷	12.20
<i>ELF2</i>	1.14	7.51	9.80	4.15x10 ⁻¹⁴	4.33x10 ⁻¹¹	21.83
<i>DMTF1</i>	1.14	8.62	6.63	1.04x10 ⁻⁰⁸	2.24x10 ⁻⁰⁶	9.56
<i>SP110</i>	1.14	7.22	4.51	3.01x10 ⁻⁰⁵	2.12x10 ⁻⁰³	1.78
<i>TBRG1</i>	1.14	6.27	6.75	6.49x10 ⁻⁰⁹	1.49x10 ⁻⁰⁶	10.02
<i>APOL3</i>	1.14	5.39	4.21	8.47x10 ⁻⁰⁵	5.15x10 ⁻⁰³	0.79
<i>INTS8</i>	1.13	9.06	5.66	4.31x10 ⁻⁰⁷	5.70x10 ⁻⁰⁵	5.91
<i>ZNF862</i>	1.13	6.46	6.94	3.02x10 ⁻⁰⁹	7.60x10 ⁻⁰⁷	10.78
<i>MKNK1</i>	1.13	6.59	8.72	2.68x10 ⁻¹²	1.69x10 ⁻⁰⁹	17.71
<i>RIN2</i>	1.13	7.44	6.38	2.76x10 ⁻⁰⁸	5.28x10 ⁻⁰⁶	8.60
<i>HSPB11</i>	1.13	7.81	5.16	2.83x10 ⁻⁰⁶	2.82x10 ⁻⁰⁴	4.07
<i>CPQ</i>	1.13	8.58	5.44	1.02x10 ⁻⁰⁶	1.19x10 ⁻⁰⁴	5.07
<i>TIA1</i>	1.13	6.96	8.01	4.33x10 ⁻¹¹	1.88x10 ⁻⁰⁸	14.96
<i>DDX5</i>	1.13	7.26	4.68	1.67x10 ⁻⁰⁵	1.29x10 ⁻⁰³	2.35
<i>CDKN1C</i>	1.13	5.59	5.11	3.46x10 ⁻⁰⁶	3.35x10 ⁻⁰⁴	3.88
<i>CYSLTR1</i>	1.12	4.59	5.43	1.03x10 ⁻⁰⁶	1.20x10 ⁻⁰⁴	5.06
<i>SETBP1</i>	1.12	6.93	4.83	9.83x10 ⁻⁰⁶	8.16x10 ⁻⁰⁴	2.86
<i>CSGALNACT1</i>	1.12	6.44	5.10	3.65x10 ⁻⁰⁶	3.52x10 ⁻⁰⁴	3.83
<i>GULP1</i>	1.12	6.02	5.26	2.01x10 ⁻⁰⁶	2.11x10 ⁻⁰⁴	4.41
<i>LHX2</i>	1.12	4.78	4.15	1.06x10 ⁻⁰⁴	6.24x10 ⁻⁰³	0.58
<i>MOB3B</i>	1.12	5.79	6.96	2.85x10 ⁻⁰⁹	7.25x10 ⁻⁰⁷	10.83
<i>BANF1</i>	1.12	10.36	6.08	8.79x10 ⁻⁰⁸	1.45x10 ⁻⁰⁵	7.46
<i>TAF9B</i>	1.12	6.28	7.66	1.79x10 ⁻¹⁰	6.34x10 ⁻⁰⁸	13.56
<i>VGLL4</i>	1.12	9.23	6.19	5.61x10 ⁻⁰⁸	9.82x10 ⁻⁰⁶	7.91
<i>ARHGAP28</i>	1.12	5.04	4.57	2.41x10 ⁻⁰⁵	1.75x10 ⁻⁰³	2.00
<i>CELF2</i>	1.12	5.48	5.08	3.92x10 ⁻⁰⁶	3.73x10 ⁻⁰⁴	3.76
<i>FCGR3B</i>	1.11	5.58	4.15	1.05x10 ⁻⁰⁴	6.19x10 ⁻⁰³	0.58
<i>TRIM52</i>	1.11	5.83	6.55	1.40x10 ⁻⁰⁸	2.86x10 ⁻⁰⁶	9.27
<i>KIAA1147</i>	1.11	6.70	7.51	3.13x10 ⁻¹⁰	1.02x10 ⁻⁰⁷	13.01
<i>RASGRP3</i>	1.11	5.05	12.54	1.70x10 ⁻¹⁸	6.01x10 ⁻¹⁵	31.80
<i>IGSF6</i>	1.11	4.51	5.56	6.38x10 ⁻⁰⁷	7.94x10 ⁻⁰⁵	5.52
<i>ZNF593</i>	1.11	7.85	4.53	2.81x10 ⁻⁰⁵	2.00x10 ⁻⁰³	1.85
<i>RNFT1</i>	1.11	5.76	6.66	9.06x10 ⁻⁰⁹	2.00x10 ⁻⁰⁶	9.70
<i>CREBRF</i>	1.11	6.29	5.69	3.89x10 ⁻⁰⁷	5.21x10 ⁻⁰⁵	6.01
<i>LAPTM4B</i>	1.11	10.11	4.01	1.71x10 ⁻⁰⁴	9.41x10 ⁻⁰³	0.11

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>CCDC84</i>	1.11	7.17	5.70	3.84x10 ⁻⁰⁷	5.17x10 ⁻⁰⁵	6.02
<i>PLEKHO1</i>	1.11	8.30	4.30	6.41x10 ⁻⁰⁵	4.06x10 ⁻⁰³	1.06
<i>GPRC5C</i>	1.11	5.91	5.59	5.67x10 ⁻⁰⁷	7.20x10 ⁻⁰⁵	5.64
<i>WDR75</i>	1.11	7.55	5.63	4.97x10 ⁻⁰⁷	6.46x10 ⁻⁰⁵	5.77
<i>ARID2</i>	1.11	6.59	7.84	8.60x10 ⁻¹¹	3.39x10 ⁻⁰⁸	14.28
<i>APOPT1</i>	1.11	8.05	8.35	1.13x10 ⁻¹¹	5.80x10 ⁻⁰⁹	16.29
<i>ICAM2</i>	1.11	6.52	5.82	2.40x10 ⁻⁰⁷	3.44x10 ⁻⁰⁵	6.48
<i>MIGA1</i>	1.10	6.79	5.62	5.13x10 ⁻⁰⁷	6.62x10 ⁻⁰⁵	5.74
<i>MFSD14A</i>	1.10	9.35	6.13	7.27x10 ⁻⁰⁸	1.23x10 ⁻⁰⁵	7.65
<i>TRA2A</i>	1.10	6.51	6.69	8.03x10 ⁻⁰⁹	1.79x10 ⁻⁰⁶	9.81
<i>C2orf68</i>	1.10	6.15	5.98	1.29x10 ⁻⁰⁷	2.02x10 ⁻⁰⁵	7.09
<i>ADORA3</i>	1.10	5.21	7.29	7.59x10 ⁻¹⁰	2.27x10 ⁻⁰⁷	12.14
<i>CARD16</i>	1.10	5.22	5.29	1.76x10 ⁻⁰⁶	1.89x10 ⁻⁰⁴	4.54
<i>JDP2</i>	1.10	6.32	5.91	1.69x10 ⁻⁰⁷	2.54x10 ⁻⁰⁵	6.83
<i>INTS2</i>	1.10	6.21	5.17	2.76x10 ⁻⁰⁶	2.75x10 ⁻⁰⁴	4.10
<i>LUC7L3</i>	1.10	7.93	6.65	9.52x10 ⁻⁰⁹	2.09x10 ⁻⁰⁶	9.65
<i>CEP57</i>	1.10	7.31	4.84	9.44x10 ⁻⁰⁶	7.88x10 ⁻⁰⁴	2.90
<i>P2RX7</i>	1.09	5.35	5.18	2.64x10 ⁻⁰⁶	2.66x10 ⁻⁰⁴	4.14
<i>RUNDC3B</i>	1.09	4.58	4.53	2.86x10 ⁻⁰⁵	2.03x10 ⁻⁰³	1.83
<i>RUNX3</i>	1.09	6.00	5.69	3.88x10 ⁻⁰⁷	5.21x10 ⁻⁰⁵	6.01
<i>ROBO4</i>	1.09	6.27	10.10	1.31x10 ⁻¹⁴	1.52x10 ⁻¹¹	22.97
<i>SLC5A3</i>	1.09	7.71	4.34	5.54x10 ⁻⁰⁵	3.59x10 ⁻⁰³	1.19
<i>XRCC2</i>	1.09	7.02	5.42	1.09x10 ⁻⁰⁶	1.25x10 ⁻⁰⁴	5.00
<i>GNA15</i>	1.09	5.49	4.02	1.65x10 ⁻⁰⁴	9.12x10 ⁻⁰³	0.15
<i>TMEM267</i>	1.09	6.23	5.02	4.91x10 ⁻⁰⁶	4.51x10 ⁻⁰⁴	3.54
<i>ARRDC3</i>	1.09	8.73	4.13	1.12x10 ⁻⁰⁴	6.55x10 ⁻⁰³	0.52
<i>LAT2</i>	1.09	6.00	7.83	9.03x10 ⁻¹¹	3.54x10 ⁻⁰⁸	14.24
<i>KLHL24</i>	1.09	6.12	7.66	1.75x10 ⁻¹⁰	6.23x10 ⁻⁰⁸	13.58
<i>CCNB1IP1</i>	1.09	9.18	4.66	1.77x10 ⁻⁰⁵	1.34x10 ⁻⁰³	2.30
<i>RPL35</i>	1.09	12.61	7.68	1.61x10 ⁻¹⁰	5.80x10 ⁻⁰⁸	13.67
<i>CYBB</i>	1.09	5.00	8.08	3.32x10 ⁻¹¹	1.48x10 ⁻⁰⁸	15.22
<i>SLC39A11</i>	1.09	7.07	5.87	1.94x10 ⁻⁰⁷	2.86x10 ⁻⁰⁵	6.69
<i>ST3GAL6</i>	1.09	5.03	5.48	8.71x10 ⁻⁰⁷	1.04x10 ⁻⁰⁴	5.22
<i>ZNF83</i>	1.09	6.55	5.04	4.50x10 ⁻⁰⁶	4.19x10 ⁻⁰⁴	3.62
<i>PSMA3-AS1</i>	1.08	5.70	5.43	1.05x10 ⁻⁰⁶	1.22x10 ⁻⁰⁴	5.03
<i>SSI8L1</i>	1.08	7.20	4.79	1.13x10 ⁻⁰⁵	9.12x10 ⁻⁰⁴	2.73
<i>KAT2B</i>	1.08	7.09	4.36	5.15x10 ⁻⁰⁵	3.38x10 ⁻⁰³	1.27
<i>ANKRD12</i>	1.08	6.55	5.69	3.89x10 ⁻⁰⁷	5.22x10 ⁻⁰⁵	6.01
<i>BCL2L11</i>	1.08	6.16	8.50	6.34x10 ⁻¹²	3.53x10 ⁻⁰⁹	16.86
<i>IQCH-AS1</i>	1.08	5.81	6.91	3.44x10 ⁻⁰⁹	8.47x10 ⁻⁰⁷	10.65
<i>FMC1</i>	1.08	7.89	4.52	2.94x10 ⁻⁰⁵	2.08x10 ⁻⁰³	1.80
<i>SGK494</i>	1.08	4.84	6.43	2.27x10 ⁻⁰⁸	4.41x10 ⁻⁰⁶	8.79
<i>PIK3CG</i>	1.08	4.42	8.27	1.56x10 ⁻¹¹	7.64x10 ⁻⁰⁹	15.97
<i>SUMO4</i>	1.08	8.82	10.21	8.48x10 ⁻¹⁵	1.03x10 ⁻¹¹	23.40
<i>SRSF4</i>	1.08	6.10	6.80	5.26x10 ⁻⁰⁹	1.23x10 ⁻⁰⁶	10.23
<i>CIQTNF1</i>	1.08	6.30	4.32	5.86x10 ⁻⁰⁵	3.77x10 ⁻⁰³	1.14
<i>FOLR1</i>	1.08	7.54	4.28	6.81x10 ⁻⁰⁵	4.28x10 ⁻⁰³	1.00
<i>NUPL2</i>	1.08	6.93	6.13	7.28x10 ⁻⁰⁸	1.23x10 ⁻⁰⁵	7.65
<i>ARL15</i>	1.07	6.55	4.84	9.18x10 ⁻⁰⁶	7.71x10 ⁻⁰⁴	2.93

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>NCK1-DT</i>	1.07	5.67	6.24	4.76x10 ⁻⁰⁸	8.50x10 ⁻⁰⁶	8.07
<i>GSTA4</i>	1.07	7.98	4.42	4.19x10 ⁻⁰⁵	2.82x10 ⁻⁰³	1.46
<i>METTL3</i>	1.07	6.94	7.94	5.89x10 ⁻¹¹	2.45x10 ⁻⁰⁸	14.66
<i>SLC39A8</i>	1.07	5.25	9.38	2.06x10 ⁻¹³	1.76x10 ⁻¹⁰	20.24
<i>HOXB-AS1</i>	1.07	5.48	5.75	3.09x10 ⁻⁰⁷	4.26x10 ⁻⁰⁵	6.23
<i>VASH2</i>	1.07	4.89	4.80	1.08x10 ⁻⁰⁵	8.79x10 ⁻⁰⁴	2.78
<i>ZEB2</i>	1.07	6.01	8.18	2.21x10 ⁻¹¹	1.05x10 ⁻⁰⁸	15.63
<i>ARHGAP9</i>	1.07	5.63	4.71	1.50x10 ⁻⁰⁵	1.17x10 ⁻⁰³	2.45
<i>SULT1A1</i>	1.07	6.99	6.06	9.38x10 ⁻⁰⁸	1.54x10 ⁻⁰⁵	7.40
<i>ZNF146</i>	1.07	8.27	4.38	4.70x10 ⁻⁰⁵	3.12x10 ⁻⁰³	1.35
<i>FAM13A-AS1</i>	1.07	5.54	8.09	3.19x10 ⁻¹¹	1.44x10 ⁻⁰⁸	15.26
<i>DOCK4</i>	1.06	5.33	11.21	2.09x10 ⁻¹⁶	4.06x10 ⁻¹³	27.05
<i>KIF21A</i>	1.06	5.08	4.27	7.02x10 ⁻⁰⁵	4.39x10 ⁻⁰³	0.97
<i>AKAP9</i>	1.06	5.89	7.64	1.94x10 ⁻¹⁰	6.75x10 ⁻⁰⁸	13.48
<i>UXT</i>	1.06	10.16	5.37	1.30x10 ⁻⁰⁶	1.44x10 ⁻⁰⁴	4.83
<i>NFKBIA</i>	1.06	7.53	8.65	3.60x10 ⁻¹²	2.19x10 ⁻⁰⁹	17.42
<i>MBTD1</i>	1.06	5.17	11.09	3.18x10 ⁻¹⁶	5.86x10 ⁻¹³	26.64
<i>FMNL3</i>	1.06	5.94	5.43	1.04x10 ⁻⁰⁶	1.21x10 ⁻⁰⁴	5.05
<i>TSPAN33</i>	1.06	7.21	5.21	2.42x10 ⁻⁰⁶	2.47x10 ⁻⁰⁴	4.23
<i>ALMS1</i>	1.06	7.02	6.82	4.92x10 ⁻⁰⁹	1.16x10 ⁻⁰⁶	10.30
<i>THOC1</i>	1.06	8.52	5.32	1.60x10 ⁻⁰⁶	1.73x10 ⁻⁰⁴	4.63
<i>LMO2</i>	1.06	5.65	6.93	3.20x10 ⁻⁰⁹	7.96x10 ⁻⁰⁷	10.72
<i>RRN3P2</i>	1.06	5.59	6.10	7.97x10 ⁻⁰⁸	1.33x10 ⁻⁰⁵	7.56
<i>RGS10</i>	1.05	6.65	5.62	5.13x10 ⁻⁰⁷	6.63x10 ⁻⁰⁵	5.74
<i>CENPC</i>	1.05	6.23	5.42	1.08x10 ⁻⁰⁶	1.25x10 ⁻⁰⁴	5.01
<i>CDCA7</i>	1.05	5.92	4.44	3.85x10 ⁻⁰⁵	2.62x10 ⁻⁰³	1.54
<i>RPL31</i>	1.05	9.77	5.23	2.23x10 ⁻⁰⁶	2.30x10 ⁻⁰⁴	4.31
<i>MAP2</i>	1.05	5.06	4.55	2.62x10 ⁻⁰⁵	1.88x10 ⁻⁰³	1.92
<i>TCF4</i>	1.05	8.95	5.73	3.33x10 ⁻⁰⁷	4.54x10 ⁻⁰⁵	6.16
<i>PPP4R3A</i>	1.05	6.76	7.20	1.09x10 ⁻⁰⁹	3.13x10 ⁻⁰⁷	11.78
<i>GEMIN2</i>	1.05	6.64	4.52	2.97x10 ⁻⁰⁵	2.10x10 ⁻⁰³	1.79
<i>GORAB</i>	1.05	8.06	4.62	2.09x10 ⁻⁰⁵	1.55x10 ⁻⁰³	2.14
<i>DCLRE1C</i>	1.05	6.00	5.81	2.45x10 ⁻⁰⁷	3.49x10 ⁻⁰⁵	6.46
<i>RNF19B</i>	1.05	6.86	5.13	3.19x10 ⁻⁰⁶	3.12x10 ⁻⁰⁴	3.96
<i>COX2</i>	1.05	13.61	7.03	2.09x10 ⁻⁰⁹	5.54x10 ⁻⁰⁷	11.14
<i>C8orf76</i>	1.04	7.12	4.68	1.64x10 ⁻⁰⁵	1.26x10 ⁻⁰³	2.37
<i>DNM3</i>	1.04	4.87	5.32	1.56x10 ⁻⁰⁶	1.70x10 ⁻⁰⁴	4.65
<i>NOL11</i>	1.04	9.29	4.76	1.25x10 ⁻⁰⁵	9.96x10 ⁻⁰⁴	2.63
<i>SNCAIP</i>	1.04	5.50	4.83	9.68x10 ⁻⁰⁶	8.05x10 ⁻⁰⁴	2.88
<i>ZBTB34</i>	1.04	7.24	5.32	1.59x10 ⁻⁰⁶	1.73x10 ⁻⁰⁴	4.63
<i>CD48</i>	1.04	5.70	4.41	4.27x10 ⁻⁰⁵	2.87x10 ⁻⁰³	1.45
<i>FAM221A</i>	1.04	4.45	5.33	1.55x10 ⁻⁰⁶	1.69x10 ⁻⁰⁴	4.66
<i>NDC1</i>	1.04	7.58	4.30	6.24x10 ⁻⁰⁵	3.97x10 ⁻⁰³	1.08
<i>CMC4</i>	1.04	8.09	4.78	1.16x10 ⁻⁰⁵	9.32x10 ⁻⁰⁴	2.71
<i>NASP</i>	1.04	6.69	5.52	7.38x10 ⁻⁰⁷	9.01x10 ⁻⁰⁵	5.38
<i>ZNF704</i>	1.04	5.11	8.32	1.28x10 ⁻¹¹	6.46x10 ⁻⁰⁹	16.17
<i>CLNS1A</i>	1.04	8.43	4.79	1.11x10 ⁻⁰⁵	9.00x10 ⁻⁰⁴	2.75
<i>PTPN22</i>	1.03	4.56	4.79	1.13x10 ⁻⁰⁵	9.12x10 ⁻⁰⁴	2.73
<i>ITGA6</i>	1.03	6.28	7.35	5.90x10 ⁻¹⁰	1.80x10 ⁻⁰⁷	12.39

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>KLF10</i>	1.03	9.93	4.81	1.05x10 ⁻⁰⁵	8.65x10 ⁻⁰⁴	2.80
<i>IMP3</i>	1.03	7.74	6.59	1.18x10 ⁻⁰⁸	2.49x10 ⁻⁰⁶	9.44
<i>PAXIP1-AS1</i>	1.03	4.97	3.99	1.82x10 ⁻⁰⁴	9.88x10 ⁻⁰³	0.06
<i>MRPL34</i>	1.03	7.94	5.21	2.36x10 ⁻⁰⁶	2.42x10 ⁻⁰⁴	4.25
<i>LOC114224</i>	1.03	5.82	4.67	1.70x10 ⁻⁰⁵	1.30x10 ⁻⁰³	2.33
<i>ABHD18</i>	1.03	6.22	7.16	1.26x10 ⁻⁰⁹	3.52x10 ⁻⁰⁷	11.64
<i>ZNF430</i>	1.03	6.06	5.58	5.90x10 ⁻⁰⁷	7.44x10 ⁻⁰⁵	5.60
<i>PPFIA2</i>	1.03	5.17	4.90	7.45x10 ⁻⁰⁶	6.42x10 ⁻⁰⁴	3.13
<i>NCAM1</i>	1.03	5.50	5.23	2.19x10 ⁻⁰⁶	2.27x10 ⁻⁰⁴	4.32
<i>AUP1</i>	1.03	8.77	5.56	6.50x10 ⁻⁰⁷	8.06x10 ⁻⁰⁵	5.51
<i>ZHX2</i>	1.02	5.88	5.46	9.43x10 ⁻⁰⁷	1.11x10 ⁻⁰⁴	5.14
<i>LOC100133315</i>	1.02	6.09	5.30	1.71x10 ⁻⁰⁶	1.84x10 ⁻⁰⁴	4.56
<i>PLD1</i>	1.02	5.12	7.84	8.60x10 ⁻¹¹	3.39x10 ⁻⁰⁸	14.29
<i>ZNF431</i>	1.02	4.86	6.52	1.55x10 ⁻⁰⁸	3.15x10 ⁻⁰⁶	9.17
<i>FBXW12</i>	1.02	6.65	7.20	1.09x10 ⁻⁰⁹	3.13x10 ⁻⁰⁷	11.78
<i>ZNF518A</i>	1.02	6.10	7.89	6.96x10 ⁻¹¹	2.83x10 ⁻⁰⁸	14.49
<i>GNA13</i>	1.02	7.76	7.51	3.14x10 ⁻¹⁰	1.03x10 ⁻⁰⁷	13.01
<i>MGME1</i>	1.02	8.57	4.59	2.32x10 ⁻⁰⁵	1.69x10 ⁻⁰³	2.04
<i>NCOA1</i>	1.02	7.23	6.64	9.90x10 ⁻⁰⁹	2.15x10 ⁻⁰⁶	9.61
<i>PDE2A</i>	1.02	6.17	6.24	4.78x10 ⁻⁰⁸	8.52x10 ⁻⁰⁶	8.06
<i>FLVCR1</i>	1.01	6.25	4.16	1.02x10 ⁻⁰⁴	6.04x10 ⁻⁰³	0.61
<i>CCAR1</i>	1.01	7.05	7.64	1.91x10 ⁻¹⁰	6.70x10 ⁻⁰⁸	13.50
<i>ZFHX4</i>	1.01	6.71	4.06	1.41x10 ⁻⁰⁴	7.98x10 ⁻⁰³	0.30
<i>CREB5</i>	1.01	5.74	5.57	6.09x10 ⁻⁰⁷	7.63x10 ⁻⁰⁵	5.57
<i>RAB42</i>	1.01	7.17	4.81	1.05x10 ⁻⁰⁵	8.63x10 ⁻⁰⁴	2.80
<i>EFHC1</i>	1.01	6.36	6.38	2.77x10 ⁻⁰⁸	5.29x10 ⁻⁰⁶	8.60
<i>COX6B1</i>	1.01	10.39	5.94	1.48x10 ⁻⁰⁷	2.26x10 ⁻⁰⁵	6.96
<i>LINC00847</i>	1.01	6.29	6.54	1.47x10 ⁻⁰⁸	2.99x10 ⁻⁰⁶	9.22
<i>ZRANB2</i>	1.01	9.57	7.06	1.88x10 ⁻⁰⁹	5.04x10 ⁻⁰⁷	11.24
<i>HECA</i>	1.01	6.53	7.88	7.31x10 ⁻¹¹	2.94x10 ⁻⁰⁸	14.45
<i>PRKRA</i>	1.01	7.28	5.81	2.49x10 ⁻⁰⁷	3.55x10 ⁻⁰⁵	6.44
<i>RHOJ</i>	1.01	5.70	4.84	9.29x10 ⁻⁰⁶	7.79x10 ⁻⁰⁴	2.92
<i>POLR2J</i>	1.01	9.55	4.92	7.08x10 ⁻⁰⁶	6.14x10 ⁻⁰⁴	3.18
<i>RAMP2</i>	1.01	6.37	5.28	1.83x10 ⁻⁰⁶	1.95x10 ⁻⁰⁴	4.50
<i>PCAT19</i>	1.01	5.19	6.19	5.80x10 ⁻⁰⁸	1.01x10 ⁻⁰⁵	7.87
<i>ATP5PF</i>	1.00	11.21	7.54	2.79x10 ⁻¹⁰	9.24x10 ⁻⁰⁸	13.12
<i>NOSTRIN</i>	1.00	4.65	4.40	4.45x10 ⁻⁰⁵	2.97x10 ⁻⁰³	1.41
<i>SH2B2</i>	1.00	7.65	7.86	7.92x10 ⁻¹¹	3.17x10 ⁻⁰⁸	14.37
<i>COX7C</i>	1.00	10.77	5.24	2.10x10 ⁻⁰⁶	2.19x10 ⁻⁰⁴	4.36
<i>C21orf91</i>	1.00	7.22	4.65	1.88x10 ⁻⁰⁵	1.42x10 ⁻⁰³	2.24
<i>ZC3H8</i>	1.00	5.98	5.80	2.57x10 ⁻⁰⁷	3.64x10 ⁻⁰⁵	6.41
<i>PMP22</i>	1.00	6.55	5.24	2.15x10 ⁻⁰⁶	2.24x10 ⁻⁰⁴	4.34
<i>UBL7-AS1</i>	1.00	5.51	5.20	2.47x10 ⁻⁰⁶	2.51x10 ⁻⁰⁴	4.20
<i>ZNF426</i>	1.00	6.51	4.06	1.41x10 ⁻⁰⁴	7.99x10 ⁻⁰³	0.30
<i>NDUFB11</i>	1.00	10.48	6.06	9.46x10 ⁻⁰⁸	1.55x10 ⁻⁰⁵	7.39
<i>WASF1</i>	-1.00	7.08	-4.88	8.00x10 ⁻⁰⁶	6.84x10 ⁻⁰⁴	3.06
<i>MICA</i>	-1.00	7.10	-5.23	2.25x10 ⁻⁰⁶	2.31x10 ⁻⁰⁴	4.30
<i>BCL9L</i>	-1.01	6.51	-6.02	1.12x10 ⁻⁰⁷	1.79x10 ⁻⁰⁵	7.23
<i>PDHB</i>	-1.01	8.99	-6.84	4.49x10 ⁻⁰⁹	1.07x10 ⁻⁰⁶	10.39

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>MGAM</i>	-1.01	3.73	-8.94	1.13x10 ⁻¹²	7.94x10 ⁻¹⁰	18.56
<i>PEAK1</i>	-1.01	7.91	-8.88	1.44x10 ⁻¹²	9.69x10 ⁻¹⁰	18.33
<i>FERMT2</i>	-1.01	9.15	-4.00	1.77x10 ⁻⁰⁴	9.70x10 ⁻⁰³	0.08
<i>DIAPH3</i>	-1.01	5.28	-6.70	7.73x10 ⁻⁰⁹	1.73x10 ⁻⁰⁶	9.85
<i>TMEM171</i>	-1.01	3.99	-7.95	5.56x10 ⁻¹¹	2.35x10 ⁻⁰⁸	14.71
<i>TMEM246</i>	-1.01	5.35	-7.91	6.57x10 ⁻¹¹	2.68x10 ⁻⁰⁸	14.55
<i>RAI14</i>	-1.02	9.52	-4.26	7.22x10 ⁻⁰⁵	4.49x10 ⁻⁰³	0.94
<i>NHS</i>	-1.02	4.86	-5.23	2.23x10 ⁻⁰⁶	2.30x10 ⁻⁰⁴	4.31
<i>RAB36</i>	-1.02	5.56	-6.49	1.75x10 ⁻⁰⁸	3.49x10 ⁻⁰⁶	9.05
<i>ABAT</i>	-1.02	4.93	-7.07	1.78x10 ⁻⁰⁹	4.79x10 ⁻⁰⁷	11.30
<i>CDIP1</i>	-1.02	6.12	-8.58	4.68x10 ⁻¹²	2.75x10 ⁻⁰⁹	17.16
<i>DBN1</i>	-1.02	7.59	-5.19	2.60x10 ⁻⁰⁶	2.62x10 ⁻⁰⁴	4.16
<i>TSPAN4</i>	-1.02	7.92	-4.38	4.84x10 ⁻⁰⁵	3.21x10 ⁻⁰³	1.32
<i>CDR2L</i>	-1.02	6.87	-7.40	4.89x10 ⁻¹⁰	1.52x10 ⁻⁰⁷	12.57
<i>ENG</i>	-1.02	6.45	-7.50	3.33x10 ⁻¹⁰	1.08x10 ⁻⁰⁷	12.95
<i>KIF3C</i>	-1.02	6.62	-7.21	1.03x10 ⁻⁰⁹	2.98x10 ⁻⁰⁷	11.84
<i>NFIC</i>	-1.03	7.37	-4.90	7.51x10 ⁻⁰⁶	6.46x10 ⁻⁰⁴	3.13
<i>RMND5B</i>	-1.03	5.76	-7.19	1.10x10 ⁻⁰⁹	3.16x10 ⁻⁰⁷	11.77
<i>RAB11FIP5</i>	-1.03	7.13	-6.32	3.49x10 ⁻⁰⁸	6.45x10 ⁻⁰⁶	8.37
<i>RPS27L</i>	-1.03	8.06	-6.13	7.26x10 ⁻⁰⁸	1.23x10 ⁻⁰⁵	7.65
<i>TRIM6</i>	-1.03	5.86	-4.35	5.24x10 ⁻⁰⁵	3.43x10 ⁻⁰³	1.25
<i>TCTA</i>	-1.03	7.66	-5.67	4.29x10 ⁻⁰⁷	5.69x10 ⁻⁰⁵	5.91
<i>TPM2</i>	-1.03	6.75	-4.89	7.69x10 ⁻⁰⁶	6.60x10 ⁻⁰⁴	3.10
<i>PARP3</i>	-1.04	5.87	-6.91	3.41x10 ⁻⁰⁹	8.42x10 ⁻⁰⁷	10.66
<i>CIGALT1</i>	-1.04	7.33	-5.16	2.85x10 ⁻⁰⁶	2.84x10 ⁻⁰⁴	4.06
<i>TST</i>	-1.04	7.40	-5.40	1.20x10 ⁻⁰⁶	1.35x10 ⁻⁰⁴	4.91
<i>ACOX3</i>	-1.04	6.37	-6.27	4.17x10 ⁻⁰⁸	7.51x10 ⁻⁰⁶	8.20
<i>MFSD10</i>	-1.04	6.92	-5.07	3.96x10 ⁻⁰⁶	3.76x10 ⁻⁰⁴	3.75
<i>PARVA</i>	-1.04	6.90	-6.58	1.23x10 ⁻⁰⁸	2.58x10 ⁻⁰⁶	9.40
<i>ADRA2C</i>	-1.04	5.39	-6.49	1.75x10 ⁻⁰⁸	3.49x10 ⁻⁰⁶	9.05
<i>CLCF1</i>	-1.04	6.18	-9.65	7.41x10 ⁻¹⁴	7.13x10 ⁻¹¹	21.26
<i>VCL</i>	-1.05	7.06	-9.05	7.42x10 ⁻¹³	5.46x10 ⁻¹⁰	18.98
<i>KCNMA1</i>	-1.05	5.25	-7.84	8.71x10 ⁻¹¹	3.42x10 ⁻⁰⁸	14.27
<i>GALNT5</i>	-1.05	5.54	-5.60	5.53x10 ⁻⁰⁷	7.06x10 ⁻⁰⁵	5.66
<i>GLS</i>	-1.05	6.15	-9.92	2.57x10 ⁻¹⁴	2.82x10 ⁻¹¹	22.30
<i>AIFM2</i>	-1.05	6.06	-6.38	2.69x10 ⁻⁰⁸	5.14x10 ⁻⁰⁶	8.63
<i>RHBDF1</i>	-1.05	6.02	-7.51	3.20x10 ⁻¹⁰	1.04x10 ⁻⁰⁷	12.99
<i>DOLK</i>	-1.05	6.91	-5.55	6.55x10 ⁻⁰⁷	8.12x10 ⁻⁰⁵	5.50
<i>CRISPLD2</i>	-1.06	6.83	-4.41	4.30x10 ⁻⁰⁵	2.89x10 ⁻⁰³	1.44
<i>MYH9</i>	-1.06	8.88	-4.31	6.17x10 ⁻⁰⁵	3.93x10 ⁻⁰³	1.09
<i>ELOVL6</i>	-1.06	5.66	-4.04	1.53x10 ⁻⁰⁴	8.59x10 ⁻⁰³	0.22
<i>NAT14</i>	-1.06	6.49	-5.77	2.85x10 ⁻⁰⁷	4.00x10 ⁻⁰⁵	6.31
<i>GLIS2</i>	-1.06	8.13	-4.11	1.20x10 ⁻⁰⁴	6.97x10 ⁻⁰³	0.45
<i>TRNP1</i>	-1.06	5.17	-8.49	6.57x10 ⁻¹²	3.62x10 ⁻⁰⁹	16.82
<i>CD151</i>	-1.06	8.05	-5.04	4.50x10 ⁻⁰⁶	4.18x10 ⁻⁰⁴	3.62
<i>TUBB3</i>	-1.06	10.21	-5.74	3.19x10 ⁻⁰⁷	4.39x10 ⁻⁰⁵	6.20
<i>FGF7</i>	-1.07	3.92	-5.39	1.24x10 ⁻⁰⁶	1.39x10 ⁻⁰⁴	4.88
<i>FAM234A</i>	-1.07	7.69	-6.08	8.87x10 ⁻⁰⁸	1.46x10 ⁻⁰⁵	7.46
<i>CAV2</i>	-1.07	7.20	-4.13	1.13x10 ⁻⁰⁴	6.63x10 ⁻⁰³	0.51

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>TNFAIP1</i>	-1.07	7.20	-7.71	1.41x10 ⁻¹⁰	5.25x10 ⁻⁰⁸	13.79
<i>RUSC2</i>	-1.07	7.27	-11.51	6.91x10 ⁻¹⁷	1.61x10 ⁻¹³	28.15
<i>BACE1</i>	-1.07	7.74	-5.13	3.20x10 ⁻⁰⁶	3.13x10 ⁻⁰⁴	3.95
<i>SH3BP4</i>	-1.07	6.36	-6.29	3.88x10 ⁻⁰⁸	7.09x10 ⁻⁰⁶	8.27
<i>LIMK2</i>	-1.07	5.74	-8.43	8.46x10 ⁻¹²	4.50x10 ⁻⁰⁹	16.57
<i>MAGEE1</i>	-1.07	5.31	-6.86	4.20x10 ⁻⁰⁹	1.01x10 ⁻⁰⁶	10.45
<i>ADD3</i>	-1.07	9.50	-4.92	6.91x10 ⁻⁰⁶	6.03x10 ⁻⁰⁴	3.21
<i>TES</i>	-1.08	6.88	-6.01	1.15x10 ⁻⁰⁷	1.83x10 ⁻⁰⁵	7.20
<i>GOPC</i>	-1.08	6.82	-8.01	4.33x10 ⁻¹¹	1.88x10 ⁻⁰⁸	14.96
<i>MLF2</i>	-1.08	8.83	-4.30	6.36x10 ⁻⁰⁵	4.03x10 ⁻⁰³	1.06
<i>FAM129B</i>	-1.08	7.19	-10.03	1.69x10 ⁻¹⁴	1.92x10 ⁻¹¹	22.72
<i>TMCO3</i>	-1.08	6.04	-5.13	3.17x10 ⁻⁰⁶	3.11x10 ⁻⁰⁴	3.96
<i>PGRMC2</i>	-1.08	8.27	-5.30	1.72x10 ⁻⁰⁶	1.85x10 ⁻⁰⁴	4.56
<i>TGFB2</i>	-1.08	5.03	-4.61	2.15x10 ⁻⁰⁵	1.59x10 ⁻⁰³	2.11
<i>P3H3</i>	-1.08	6.49	-5.47	8.99x10 ⁻⁰⁷	1.07x10 ⁻⁰⁴	5.19
<i>HRCT1</i>	-1.09	6.50	-5.95	1.43x10 ⁻⁰⁷	2.20x10 ⁻⁰⁵	6.99
<i>NABP1</i>	-1.09	6.23	-5.24	2.17x10 ⁻⁰⁶	2.25x10 ⁻⁰⁴	4.33
<i>DOCK5</i>	-1.09	5.14	-8.86	1.57x10 ⁻¹²	1.05x10 ⁻⁰⁹	18.24
<i>NDST1</i>	-1.09	5.83	-9.89	2.90x10 ⁻¹⁴	3.12x10 ⁻¹¹	22.18
<i>HOXA3</i>	-1.10	5.16	-8.04	3.98x10 ⁻¹¹	1.75x10 ⁻⁰⁸	15.04
<i>DNAJC6</i>	-1.10	4.05	-6.96	2.82x10 ⁻⁰⁹	7.20x10 ⁻⁰⁷	10.84
<i>NEK7</i>	-1.10	10.27	-4.68	1.67x10 ⁻⁰⁵	1.29x10 ⁻⁰³	2.35
<i>BPGM</i>	-1.10	7.55	-4.19	9.09x10 ⁻⁰⁵	5.48x10 ⁻⁰³	0.72
<i>CPT1C</i>	-1.11	5.26	-4.90	7.62x10 ⁻⁰⁶	6.54x10 ⁻⁰⁴	3.11
<i>KATNAL1</i>	-1.11	6.22	-6.66	9.09x10 ⁻⁰⁹	2.00x10 ⁻⁰⁶	9.69
<i>TP53</i>	-1.11	5.56	-4.34	5.41x10 ⁻⁰⁵	3.51x10 ⁻⁰³	1.22
<i>SOCS5</i>	-1.11	8.13	-5.69	3.85x10 ⁻⁰⁷	5.17x10 ⁻⁰⁵	6.02
<i>WTIP</i>	-1.12	5.84	-5.85	2.12x10 ⁻⁰⁷	3.10x10 ⁻⁰⁵	6.60
<i>TSPAN5</i>	-1.12	6.14	-5.20	2.48x10 ⁻⁰⁶	2.52x10 ⁻⁰⁴	4.20
<i>Il-Sep</i>	-1.12	7.78	-5.91	1.67x10 ⁻⁰⁷	2.51x10 ⁻⁰⁵	6.84
<i>VASP</i>	-1.12	7.87	-6.08	8.64x10 ⁻⁰⁸	1.44x10 ⁻⁰⁵	7.48
<i>CLIP3</i>	-1.12	5.97	-7.66	1.73x10 ⁻¹⁰	6.17x10 ⁻⁰⁸	13.60
<i>EBF3</i>	-1.12	5.17	-5.27	1.91x10 ⁻⁰⁶	2.01x10 ⁻⁰⁴	4.46
<i>ATP13A3</i>	-1.12	7.72	-5.70	3.71x10 ⁻⁰⁷	5.01x10 ⁻⁰⁵	6.05
<i>KIRREL3</i>	-1.12	4.47	-11.61	4.72x10 ⁻¹⁷	1.15x10 ⁻¹³	28.52
<i>LACTB</i>	-1.13	6.75	-6.62	1.05x10 ⁻⁰⁸	2.26x10 ⁻⁰⁶	9.55
<i>SPATA18</i>	-1.13	5.02	-6.85	4.29x10 ⁻⁰⁹	1.03x10 ⁻⁰⁶	10.43
<i>RGS20</i>	-1.13	4.62	-15.16	2.75x10 ⁻²²	2.33x10 ⁻¹⁸	40.37
<i>TUBB6</i>	-1.13	10.68	-6.19	5.61x10 ⁻⁰⁸	9.82x10 ⁻⁰⁶	7.90
<i>ACLY</i>	-1.14	8.73	-6.60	1.13x10 ⁻⁰⁸	2.41x10 ⁻⁰⁶	9.47
<i>TLL1</i>	-1.14	6.34	-7.42	4.46x10 ⁻¹⁰	1.41x10 ⁻⁰⁷	12.66
<i>CD59</i>	-1.14	9.15	-5.39	1.20x10 ⁻⁰⁶	1.36x10 ⁻⁰⁴	4.91
<i>ITGA11</i>	-1.14	6.49	-4.36	5.18x10 ⁻⁰⁵	3.40x10 ⁻⁰³	1.26
<i>FDXR</i>	-1.14	5.02	-6.37	2.82x10 ⁻⁰⁸	5.36x10 ⁻⁰⁶	8.58
<i>MFGES8</i>	-1.14	7.70	-4.30	6.21x10 ⁻⁰⁵	3.95x10 ⁻⁰³	1.08
<i>VSIR</i>	-1.14	5.88	-6.22	5.00x10 ⁻⁰⁸	8.86x10 ⁻⁰⁶	8.02
<i>TCEAL3</i>	-1.14	9.03	-5.55	6.60x10 ⁻⁰⁷	8.17x10 ⁻⁰⁵	5.49
<i>CCDC102A</i>	-1.14	5.06	-10.52	2.66x10 ⁻¹⁵	3.71x10 ⁻¹²	24.54
<i>ANXA2P1</i>	-1.15	4.88	-8.60	4.26x10 ⁻¹²	2.52x10 ⁻⁰⁹	17.25

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>ABL1</i>	-1.15	8.32	-4.51	3.05x10 ⁻⁰⁵	2.15x10 ⁻⁰³	1.77
<i>C16orf45</i>	-1.15	6.23	-8.36	1.12x10 ⁻¹¹	5.75x10 ⁻⁰⁹	16.30
<i>MIPEP</i>	-1.15	5.76	-7.13	1.42x10 ⁻⁰⁹	3.92x10 ⁻⁰⁷	11.52
<i>CCDC9B</i>	-1.15	6.00	-6.21	5.31x10 ⁻⁰⁸	9.34x10 ⁻⁰⁶	7.96
<i>ZDHHC7</i>	-1.15	8.85	-6.88	3.82x10 ⁻⁰⁹	9.31x10 ⁻⁰⁷	10.55
<i>PLAUR</i>	-1.15	7.55	-4.42	4.16x10 ⁻⁰⁵	2.81x10 ⁻⁰³	1.47
<i>GALNT2</i>	-1.15	6.84	-6.36	2.91x10 ⁻⁰⁸	5.50x10 ⁻⁰⁶	8.55
<i>FKRP</i>	-1.15	5.34	-8.39	9.92x10 ⁻¹²	5.18x10 ⁻⁰⁹	16.42
<i>ZNF703</i>	-1.15	7.45	-5.01	5.06x10 ⁻⁰⁶	4.63x10 ⁻⁰⁴	3.51
<i>PRSS23</i>	-1.16	7.66	-4.60	2.19x10 ⁻⁰⁵	1.62x10 ⁻⁰³	2.09
<i>ZDHHC16</i>	-1.16	8.26	-7.56	2.58x10 ⁻¹⁰	8.64x10 ⁻⁰⁸	13.20
<i>TFPI</i>	-1.16	5.98	-4.50	3.11x10 ⁻⁰⁵	2.18x10 ⁻⁰³	1.75
<i>CTIF</i>	-1.16	5.65	-13.19	1.84x10 ⁻¹⁹	8.86x10 ⁻¹⁶	33.99
<i>TP53I3</i>	-1.16	8.12	-4.42	4.17x10 ⁻⁰⁵	2.81x10 ⁻⁰³	1.47
<i>CCDC92</i>	-1.17	8.53	-4.94	6.50x10 ⁻⁰⁶	5.71x10 ⁻⁰⁴	3.27
<i>LOC101928076</i>	-1.17	4.28	-5.19	2.56x10 ⁻⁰⁶	2.59x10 ⁻⁰⁴	4.17
<i>MEGF6</i>	-1.17	5.78	-5.18	2.70x10 ⁻⁰⁶	2.71x10 ⁻⁰⁴	4.12
<i>MRVII</i>	-1.18	5.76	-4.87	8.41x10 ⁻⁰⁶	7.14x10 ⁻⁰⁴	3.02
<i>PSG5</i>	-1.18	4.89	-8.84	1.70x10 ⁻¹²	1.13x10 ⁻⁰⁹	18.16
<i>CDC42EP2</i>	-1.18	6.04	-10.62	1.82x10 ⁻¹⁵	2.71x10 ⁻¹²	24.92
<i>ERLIN1</i>	-1.18	7.55	-6.54	1.46x10 ⁻⁰⁸	2.97x10 ⁻⁰⁶	9.23
<i>GYS1</i>	-1.18	7.65	-4.27	7.09x10 ⁻⁰⁵	4.43x10 ⁻⁰³	0.96
<i>FRMD5</i>	-1.18	4.47	-9.50	1.28x10 ⁻¹³	1.14x10 ⁻¹⁰	20.72
<i>OSCP1</i>	-1.18	4.98	-8.44	8.16x10 ⁻¹²	4.38x10 ⁻⁰⁹	16.61
<i>PLIN3</i>	-1.18	9.22	-5.68	4.12x10 ⁻⁰⁷	5.48x10 ⁻⁰⁵	5.95
<i>HOXA5</i>	-1.18	7.53	-5.14	3.06x10 ⁻⁰⁶	3.01x10 ⁻⁰⁴	4.00
<i>LMO7</i>	-1.18	5.54	-8.45	7.93x10 ⁻¹²	4.28x10 ⁻⁰⁹	16.64
<i>MTCL1</i>	-1.18	7.27	-4.10	1.23x10 ⁻⁰⁴	7.14x10 ⁻⁰³	0.43
<i>TMEM155</i>	-1.19	3.95	-7.70	1.52x10 ⁻¹⁰	5.58x10 ⁻⁰⁸	13.72
<i>FAS</i>	-1.19	6.16	-4.17	9.78x10 ⁻⁰⁵	5.84x10 ⁻⁰³	0.65
<i>KCNQ5</i>	-1.19	3.99	-6.96	2.84x10 ⁻⁰⁹	7.25x10 ⁻⁰⁷	10.84
<i>PNKP</i>	-1.19	6.30	-5.72	3.45x10 ⁻⁰⁷	4.69x10 ⁻⁰⁵	6.13
<i>RTL8C</i>	-1.20	9.98	-5.30	1.68x10 ⁻⁰⁶	1.82x10 ⁻⁰⁴	4.58
<i>PSG4</i>	-1.20	4.82	-6.74	6.74x10 ⁻⁰⁹	1.54x10 ⁻⁰⁶	9.99
<i>PXDC1</i>	-1.20	7.84	-12.73	8.78x10 ⁻¹⁹	3.51x10 ⁻¹⁵	32.45
<i>YIF1A</i>	-1.20	9.56	-5.89	1.82x10 ⁻⁰⁷	2.71x10 ⁻⁰⁵	6.75
<i>AVPII</i>	-1.20	7.88	-6.23	4.97x10 ⁻⁰⁸	8.82x10 ⁻⁰⁶	8.02
<i>LASP1</i>	-1.20	10.43	-8.12	2.80x10 ⁻¹¹	1.28x10 ⁻⁰⁸	15.39
<i>NEFM</i>	-1.20	4.09	-7.98	4.94x10 ⁻¹¹	2.12x10 ⁻⁰⁸	14.83
<i>DPCD</i>	-1.21	7.19	-6.66	8.95x10 ⁻⁰⁹	1.97x10 ⁻⁰⁶	9.71
<i>KCTD10</i>	-1.21	8.43	-8.61	4.10x10 ⁻¹²	2.45x10 ⁻⁰⁹	17.29
<i>HHIP</i>	-1.21	4.35	-4.04	1.51x10 ⁻⁰⁴	8.49x10 ⁻⁰³	0.23
<i>FAM50B</i>	-1.22	6.12	-6.29	3.91x10 ⁻⁰⁸	7.13x10 ⁻⁰⁶	8.26
<i>SMAD7</i>	-1.22	7.74	-5.05	4.35x10 ⁻⁰⁶	4.06x10 ⁻⁰⁴	3.66
<i>TPM4</i>	-1.22	8.25	-5.46	9.29x10 ⁻⁰⁷	1.10x10 ⁻⁰⁴	5.16
<i>GPR176</i>	-1.23	6.60	-7.41	4.73x10 ⁻¹⁰	1.48x10 ⁻⁰⁷	12.60
<i>GALNT1</i>	-1.23	9.00	-7.56	2.65x10 ⁻¹⁰	8.85x10 ⁻⁰⁸	13.18
<i>LRRC32</i>	-1.24	7.10	-4.11	1.19x10 ⁻⁰⁴	6.91x10 ⁻⁰³	0.46
<i>SLC7A11</i>	-1.24	5.60	-4.37	4.97x10 ⁻⁰⁵	3.28x10 ⁻⁰³	1.30

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>COTL1</i>	-1.24	7.05	-7.75	1.24x10 ⁻¹⁰	4.65x10 ⁻⁰⁸	13.92
<i>GPAM</i>	-1.24	6.41	-4.53	2.80x10 ⁻⁰⁵	2.00x10 ⁻⁰³	1.85
<i>GALNT10</i>	-1.24	6.70	-6.14	7.00x10 ⁻⁰⁸	1.19x10 ⁻⁰⁵	7.69
<i>LIMA1</i>	-1.24	7.23	-5.93	1.57x10 ⁻⁰⁷	2.39x10 ⁻⁰⁵	6.90
<i>SH2D4A</i>	-1.24	5.50	-9.18	4.50x10 ⁻¹³	3.54x10 ⁻¹⁰	19.47
<i>MSRB3</i>	-1.24	7.67	-5.75	3.16x10 ⁻⁰⁷	4.35x10 ⁻⁰⁵	6.21
<i>LIMS2</i>	-1.24	6.16	-7.33	6.47x10 ⁻¹⁰	1.97x10 ⁻⁰⁷	12.29
<i>NPAS1</i>	-1.25	4.92	-10.56	2.28x10 ⁻¹⁵	3.30x10 ⁻¹²	24.70
<i>AFAP1</i>	-1.26	4.94	-7.20	1.09x10 ⁻⁰⁹	3.13x10 ⁻⁰⁷	11.78
<i>PHLDA3</i>	-1.26	6.42	-8.18	2.25x10 ⁻¹¹	1.07x10 ⁻⁰⁸	15.61
<i>MYL9</i>	-1.26	7.71	-5.20	2.51x10 ⁻⁰⁶	2.54x10 ⁻⁰⁴	4.19
<i>NME5</i>	-1.26	4.71	-7.17	1.24x10 ⁻⁰⁹	3.48x10 ⁻⁰⁷	11.65
<i>STK39</i>	-1.26	7.82	-5.08	3.90x10 ⁻⁰⁶	3.71x10 ⁻⁰⁴	3.76
<i>DHCR7</i>	-1.27	6.31	-7.62	2.09x10 ⁻¹⁰	7.25x10 ⁻⁰⁸	13.41
<i>LTBP1</i>	-1.27	8.81	-4.97	5.89x10 ⁻⁰⁶	5.24x10 ⁻⁰⁴	3.36
<i>TCTEX1D2</i>	-1.27	6.83	-5.45	9.88x10 ⁻⁰⁷	1.16x10 ⁻⁰⁴	5.10
<i>HK1</i>	-1.27	10.38	-8.00	4.59x10 ⁻¹¹	1.98x10 ⁻⁰⁸	14.90
<i>DUSP2</i>	-1.27	5.65	-5.94	1.49x10 ⁻⁰⁷	2.28x10 ⁻⁰⁵	6.95
<i>PAPSS2</i>	-1.27	8.98	-5.18	2.67x10 ⁻⁰⁶	2.69x10 ⁻⁰⁴	4.13
<i>PRDM16</i>	-1.27	4.15	-10.95	5.28x10 ⁻¹⁶	9.39x10 ⁻¹³	26.14
<i>EXT1</i>	-1.27	7.08	-5.83	2.30x10 ⁻⁰⁷	3.32x10 ⁻⁰⁵	6.52
<i>SERPINB7</i>	-1.27	4.20	-6.72	7.08x10 ⁻⁰⁹	1.61x10 ⁻⁰⁶	9.94
<i>MET</i>	-1.28	5.95	-8.08	3.32x10 ⁻¹¹	1.48x10 ⁻⁰⁸	15.22
<i>NMT2</i>	-1.28	5.25	-6.21	5.30x10 ⁻⁰⁸	9.34x10 ⁻⁰⁶	7.96
<i>PCDH19</i>	-1.28	4.97	-4.81	1.04x10 ⁻⁰⁵	8.53x10 ⁻⁰⁴	2.81
<i>PTGES</i>	-1.28	6.90	-4.83	9.70x10 ⁻⁰⁶	8.07x10 ⁻⁰⁴	2.88
<i>IRX3</i>	-1.28	9.21	-4.44	3.83x10 ⁻⁰⁵	2.61x10 ⁻⁰³	1.55
<i>ACOX2</i>	-1.28	5.56	-7.18	1.16x10 ⁻⁰⁹	3.29x10 ⁻⁰⁷	11.72
<i>DUSP14</i>	-1.29	8.19	-6.62	1.08x10 ⁻⁰⁸	2.33x10 ⁻⁰⁶	9.52
<i>SELIL3</i>	-1.29	5.15	-6.64	9.88x10 ⁻⁰⁹	2.14x10 ⁻⁰⁶	9.61
<i>MOXD1</i>	-1.29	4.71	-4.69	1.57x10 ⁻⁰⁵	1.22x10 ⁻⁰³	2.41
<i>FAM171A1</i>	-1.29	8.31	-4.80	1.08x10 ⁻⁰⁵	8.83x10 ⁻⁰⁴	2.77
<i>LINC00619</i>	-1.29	3.54	-7.55	2.75x10 ⁻¹⁰	9.13x10 ⁻⁰⁸	13.14
<i>STAM</i>	-1.30	8.23	-8.96	1.05x10 ⁻¹²	7.41x10 ⁻¹⁰	18.64
<i>CNTNAP1</i>	-1.30	6.43	-6.08	8.80x10 ⁻⁰⁸	1.45x10 ⁻⁰⁵	7.46
<i>ARSI</i>	-1.30	5.41	-6.31	3.61x10 ⁻⁰⁸	6.64x10 ⁻⁰⁶	8.34
<i>SMAGP</i>	-1.30	7.15	-5.48	8.63x10 ⁻⁰⁷	1.03x10 ⁻⁰⁴	5.23
<i>LOC101929398</i>	-1.30	4.92	-7.57	2.48x10 ⁻¹⁰	8.34x10 ⁻⁰⁸	13.24
<i>SPOCD1</i>	-1.31	6.84	-4.01	1.70x10 ⁻⁰⁴	9.35x10 ⁻⁰³	0.12
<i>BNC1</i>	-1.31	3.78	-13.28	1.31x10 ⁻¹⁹	6.45x10 ⁻¹⁶	34.32
<i>HMGA1</i>	-1.31	6.36	-7.77	1.16x10 ⁻¹⁰	4.41x10 ⁻⁰⁸	13.99
<i>ZNF580</i>	-1.32	7.16	-7.60	2.24x10 ⁻¹⁰	7.67x10 ⁻⁰⁸	13.34
<i>PRKD1</i>	-1.32	4.90	-8.16	2.41x10 ⁻¹¹	1.13x10 ⁻⁰⁸	15.54
<i>ODC1</i>	-1.32	10.00	-5.00	5.21x10 ⁻⁰⁶	4.74x10 ⁻⁰⁴	3.48
<i>ZMAT3</i>	-1.32	7.12	-6.78	5.71x10 ⁻⁰⁹	1.33x10 ⁻⁰⁶	10.15
<i>GAP43</i>	-1.33	4.16	-10.36	4.93x10 ⁻¹⁵	6.40x10 ⁻¹²	23.93
<i>DRAM1</i>	-1.33	7.74	-4.39	4.55x10 ⁻⁰⁵	3.03x10 ⁻⁰³	1.38
<i>UBASH3B</i>	-1.33	4.60	-12.91	4.70x10 ⁻¹⁹	1.99x10 ⁻¹⁵	33.06
<i>FAM155A</i>	-1.33	4.43	-5.55	6.76x10 ⁻⁰⁷	8.33x10 ⁻⁰⁵	5.47

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>TNS1</i>	-1.33	6.49	-7.40	4.98x10 ⁻¹⁰	1.54x10 ⁻⁰⁷	12.55
<i>PTGER2</i>	-1.34	4.82	-5.29	1.76x10 ⁻⁰⁶	1.89x10 ⁻⁰⁴	4.53
<i>ASL</i>	-1.34	6.86	-6.93	3.15x10 ⁻⁰⁹	7.85x10 ⁻⁰⁷	10.73
<i>ANO10</i>	-1.34	7.06	-8.94	1.13x10 ⁻¹²	7.96x10 ⁻¹⁰	18.56
<i>ENDOD1</i>	-1.34	6.50	-7.98	5.03x10 ⁻¹¹	2.15x10 ⁻⁰⁸	14.81
<i>RPS6KA2</i>	-1.34	6.57	-7.96	5.42x10 ⁻¹¹	2.30x10 ⁻⁰⁸	14.74
<i>TRIM16</i>	-1.34	6.61	-4.67	1.74x10 ⁻⁰⁵	1.33x10 ⁻⁰³	2.31
<i>RBPMS</i>	-1.35	5.31	-7.13	1.42x10 ⁻⁰⁹	3.91x10 ⁻⁰⁷	11.52
<i>BRD3OS</i>	-1.35	6.51	-5.89	1.79x10 ⁻⁰⁷	2.66x10 ⁻⁰⁵	6.77
<i>LINC00565</i>	-1.35	4.58	-10.42	3.85x10 ⁻¹⁵	5.07x10 ⁻¹²	24.18
<i>F2RL1</i>	-1.35	4.75	-6.61	1.09x10 ⁻⁰⁸	2.34x10 ⁻⁰⁶	9.51
<i>TRPC4</i>	-1.35	4.51	-7.07	1.81x10 ⁻⁰⁹	4.85x10 ⁻⁰⁷	11.28
<i>FMN2</i>	-1.35	4.37	-12.17	6.45x10 ⁻¹⁸	1.85x10 ⁻¹⁴	30.49
<i>DLX2</i>	-1.36	5.05	-7.93	5.98x10 ⁻¹¹	2.48x10 ⁻⁰⁸	14.64
<i>SYNDIG1</i>	-1.36	4.49	-7.51	3.13x10 ⁻¹⁰	1.02x10 ⁻⁰⁷	13.01
<i>SORCS2</i>	-1.36	5.52	-5.53	7.16x10 ⁻⁰⁷	8.77x10 ⁻⁰⁵	5.41
<i>PPP1R13L</i>	-1.36	5.92	-7.60	2.26x10 ⁻¹⁰	7.71x10 ⁻⁰⁸	13.33
<i>TRIP6</i>	-1.36	8.53	-6.15	6.77x10 ⁻⁰⁸	1.16x10 ⁻⁰⁵	7.72
<i>UGDH</i>	-1.37	9.18	-8.48	7.02x10 ⁻¹²	3.83x10 ⁻⁰⁹	16.76
<i>MYOF</i>	-1.37	7.80	-5.45	9.58x10 ⁻⁰⁷	1.12x10 ⁻⁰⁴	5.13
<i>AKRIC2</i>	-1.37	6.02	-4.58	2.33x10 ⁻⁰⁵	1.70x10 ⁻⁰³	2.03
<i>CREB3</i>	-1.37	8.31	-8.60	4.25x10 ⁻¹²	2.52x10 ⁻⁰⁹	17.26
<i>DSEL</i>	-1.38	5.40	-4.89	7.81x10 ⁻⁰⁶	6.70x10 ⁻⁰⁴	3.09
<i>FAM57A</i>	-1.39	7.74	-7.06	1.92x10 ⁻⁰⁹	5.11x10 ⁻⁰⁷	11.22
<i>ALCAM</i>	-1.39	7.24	-5.42	1.09x10 ⁻⁰⁶	1.25x10 ⁻⁰⁴	5.00
<i>FGF1</i>	-1.39	4.66	-10.82	8.58x10 ⁻¹⁶	1.44x10 ⁻¹²	25.66
<i>LOXL3</i>	-1.40	7.14	-4.57	2.45x10 ⁻⁰⁵	1.78x10 ⁻⁰³	1.98
<i>ZNF423</i>	-1.40	7.07	-4.80	1.08x10 ⁻⁰⁵	8.78x10 ⁻⁰⁴	2.78
<i>TUFT1</i>	-1.40	6.45	-4.77	1.20x10 ⁻⁰⁵	9.60x10 ⁻⁰⁴	2.67
<i>PHLDA2</i>	-1.40	4.88	-9.98	2.04x10 ⁻¹⁴	2.28x10 ⁻¹¹	22.53
<i>QSOX1</i>	-1.40	6.26	-11.15	2.58x10 ⁻¹⁶	4.92x10 ⁻¹³	26.85
<i>CLIP4</i>	-1.41	5.70	-5.65	4.55x10 ⁻⁰⁷	5.98x10 ⁻⁰⁵	5.86
<i>ERCC2</i>	-1.41	6.66	-10.88	6.95x10 ⁻¹⁶	1.21x10 ⁻¹²	25.87
<i>LAMC1</i>	-1.41	9.96	-6.25	4.51x10 ⁻⁰⁸	8.13x10 ⁻⁰⁶	8.12
<i>MICAL2</i>	-1.41	6.71	-5.38	1.26x10 ⁻⁰⁶	1.41x10 ⁻⁰⁴	4.86
<i>TBC1D19</i>	-1.42	6.99	-5.82	2.41x10 ⁻⁰⁷	3.45x10 ⁻⁰⁵	6.48
<i>MGAT4B</i>	-1.43	7.81	-7.11	1.57x10 ⁻⁰⁹	4.29x10 ⁻⁰⁷	11.42
<i>CYB561A3</i>	-1.43	7.61	-7.58	2.38x10 ⁻¹⁰	8.05x10 ⁻⁰⁸	13.28
<i>AJUBA</i>	-1.43	5.76	-8.41	9.24x10 ⁻¹²	4.87x10 ⁻⁰⁹	16.49
<i>PRSS12</i>	-1.43	3.82	-10.61	1.90x10 ⁻¹⁵	2.82x10 ⁻¹²	24.87
<i>GADD45A</i>	-1.43	8.88	-4.23	7.99x10 ⁻⁰⁵	4.90x10 ⁻⁰³	0.84
<i>SRXN1</i>	-1.43	8.69	-9.11	5.78x10 ⁻¹³	4.42x10 ⁻¹⁰	19.23
<i>GCNT1</i>	-1.44	6.41	-5.29	1.78x10 ⁻⁰⁶	1.90x10 ⁻⁰⁴	4.53
<i>CDH6</i>	-1.45	4.81	-7.77	1.14x10 ⁻¹⁰	4.38x10 ⁻⁰⁸	14.00
<i>FBLIM1</i>	-1.46	6.96	-8.10	3.05x10 ⁻¹¹	1.38x10 ⁻⁰⁸	15.31
<i>PERP</i>	-1.47	4.86	-11.21	2.07x10 ⁻¹⁶	4.06x10 ⁻¹³	27.06
<i>LINC01503</i>	-1.47	6.31	-6.90	3.48x10 ⁻⁰⁹	8.53x10 ⁻⁰⁷	10.64
<i>S100A16</i>	-1.48	9.43	-5.22	2.32x10 ⁻⁰⁶	2.38x10 ⁻⁰⁴	4.27
<i>STXBP1</i>	-1.48	7.92	-5.41	1.13x10 ⁻⁰⁶	1.29x10 ⁻⁰⁴	4.97

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>KIF1BP</i>	-1.48	7.81	-7.93	6.00x10 ⁻¹¹	2.48x10 ⁻⁰⁸	14.64
<i>OLFML3</i>	-1.48	10.38	-4.62	2.07x10 ⁻⁰⁵	1.55x10 ⁻⁰³	2.14
<i>CDC42EP3</i>	-1.49	8.53	-5.58	6.06x10 ⁻⁰⁷	7.61x10 ⁻⁰⁵	5.58
<i>TM4SF1</i>	-1.50	6.24	-6.94	3.03x10 ⁻⁰⁹	7.62x10 ⁻⁰⁷	10.77
<i>OXTR</i>	-1.51	5.35	-4.10	1.23x10 ⁻⁰⁴	7.14x10 ⁻⁰³	0.43
<i>AVEN</i>	-1.51	7.30	-7.55	2.67x10 ⁻¹⁰	8.91x10 ⁻⁰⁸	13.17
<i>FLNC</i>	-1.51	7.72	-5.08	3.89x10 ⁻⁰⁶	3.71x10 ⁻⁰⁴	3.76
<i>SH3RF1</i>	-1.52	6.92	-10.25	7.41x10 ⁻¹⁵	9.12x10 ⁻¹²	23.53
<i>CAVIN1</i>	-1.52	8.64	-5.46	9.32x10 ⁻⁰⁷	1.10x10 ⁻⁰⁴	5.16
<i>SLC16A2</i>	-1.53	5.89	-6.74	6.56x10 ⁻⁰⁹	1.50x10 ⁻⁰⁶	10.01
<i>ANKRD1</i>	-1.53	4.00	-5.37	1.32x10 ⁻⁰⁶	1.46x10 ⁻⁰⁴	4.82
<i>TPM1</i>	-1.54	8.49	-8.20	2.09x10 ⁻¹¹	9.99x10 ⁻⁰⁹	15.68
<i>ZYX</i>	-1.54	8.09	-5.85	2.14x10 ⁻⁰⁷	3.12x10 ⁻⁰⁵	6.59
<i>MOK</i>	-1.55	7.39	-5.22	2.29x10 ⁻⁰⁶	2.35x10 ⁻⁰⁴	4.28
<i>TCF7L1</i>	-1.55	6.35	-5.96	1.41x10 ⁻⁰⁷	2.18x10 ⁻⁰⁵	7.00
<i>TPD52L1</i>	-1.56	6.64	-4.57	2.43x10 ⁻⁰⁵	1.76x10 ⁻⁰³	1.99
<i>FNI</i>	-1.56	10.29	-5.90	1.74x10 ⁻⁰⁷	2.60x10 ⁻⁰⁵	6.80
<i>CITED2</i>	-1.56	6.46	-8.17	2.33x10 ⁻¹¹	1.10x10 ⁻⁰⁸	15.57
<i>MAFF</i>	-1.56	7.23	-6.56	1.34x10 ⁻⁰⁸	2.76x10 ⁻⁰⁶	9.31
<i>EVA1C</i>	-1.58	5.19	-5.21	2.42x10 ⁻⁰⁶	2.47x10 ⁻⁰⁴	4.22
<i>BAIAP2L1</i>	-1.58	5.50	-6.03	1.06x10 ⁻⁰⁷	1.71x10 ⁻⁰⁵	7.28
<i>PAMR1</i>	-1.58	7.17	-4.06	1.43x10 ⁻⁰⁴	8.10x10 ⁻⁰³	0.29
<i>FGF5</i>	-1.59	4.68	-12.63	1.27x10 ⁻¹⁸	4.81x10 ⁻¹⁵	32.08
<i>EHD2</i>	-1.59	7.88	-8.60	4.32x10 ⁻¹²	2.55x10 ⁻⁰⁹	17.24
<i>STK17A</i>	-1.59	6.59	-10.45	3.53x10 ⁻¹⁵	4.79x10 ⁻¹²	24.26
<i>MVP</i>	-1.60	7.81	-5.60	5.60x10 ⁻⁰⁷	7.13x10 ⁻⁰⁵	5.65
<i>B3GALT2</i>	-1.60	3.52	-8.50	6.51x10 ⁻¹²	3.59x10 ⁻⁰⁹	16.83
<i>MRAP2</i>	-1.60	4.91	-7.22	1.02x10 ⁻⁰⁹	2.95x10 ⁻⁰⁷	11.85
<i>FAM46B</i>	-1.60	5.34	-10.79	9.86x10 ⁻¹⁶	1.63x10 ⁻¹²	25.52
<i>MGST1</i>	-1.61	6.16	-5.43	1.04x10 ⁻⁰⁶	1.20x10 ⁻⁰⁴	5.05
<i>NFASC</i>	-1.61	4.50	-19.51	8.09x10 ⁻²⁸	2.45x10 ⁻²³	52.74
<i>NACC2</i>	-1.62	6.19	-10.56	2.31x10 ⁻¹⁵	3.32x10 ⁻¹²	24.68
<i>SMURF2</i>	-1.62	7.35	-9.19	4.37x10 ⁻¹³	3.48x10 ⁻¹⁰	19.50
<i>ADAMTS2</i>	-1.63	7.38	-6.24	4.75x10 ⁻⁰⁸	8.47x10 ⁻⁰⁶	8.07
<i>ALDH1B1</i>	-1.63	5.95	-7.77	1.14x10 ⁻¹⁰	4.37x10 ⁻⁰⁸	14.01
<i>LMOD1</i>	-1.63	5.41	-7.64	1.92x10 ⁻¹⁰	6.73x10 ⁻⁰⁸	13.49
<i>EFEMP2</i>	-1.64	9.05	-7.39	5.05x10 ⁻¹⁰	1.56x10 ⁻⁰⁷	12.54
<i>AOX1</i>	-1.64	5.01	-6.30	3.73x10 ⁻⁰⁸	6.82x10 ⁻⁰⁶	8.31
<i>NEXN</i>	-1.64	7.72	-4.28	6.72x10 ⁻⁰⁵	4.23x10 ⁻⁰³	1.01
<i>SERPINE2</i>	-1.65	7.82	-7.99	4.84x10 ⁻¹¹	2.08x10 ⁻⁰⁸	14.85
<i>POPDC3</i>	-1.65	6.42	-4.49	3.30x10 ⁻⁰⁵	2.30x10 ⁻⁰³	1.69
<i>PDE1C</i>	-1.65	4.38	-16.08	1.55x10 ⁻²³	1.94x10 ⁻¹⁹	43.18
<i>DACT1</i>	-1.65	7.73	-4.76	1.25x10 ⁻⁰⁵	9.96x10 ⁻⁰⁴	2.63
<i>WNT5B</i>	-1.66	5.29	-9.71	5.70x10 ⁻¹⁴	5.89x10 ⁻¹¹	21.51
<i>CDK7</i>	-1.66	7.69	-9.07	6.81x10 ⁻¹³	5.09x10 ⁻¹⁰	19.06
<i>ARMCX2</i>	-1.66	9.10	-4.72	1.44x10 ⁻⁰⁵	1.13x10 ⁻⁰³	2.49
<i>FADS3</i>	-1.69	7.05	-8.52	5.96x10 ⁻¹²	3.37x10 ⁻⁰⁹	16.92

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>AKAP12</i>	-1.69	5.88	-7.65	1.83x10 ⁻¹⁰	6.44x10 ⁻⁰⁸	13.54
<i>FBN1</i>	-1.69	8.89	-4.79	1.11x10 ⁻⁰⁵	9.00x10 ⁻⁰⁴	2.75
<i>MXRA7</i>	-1.70	7.83	-10.16	1.04x10 ⁻¹⁴	1.24x10 ⁻¹¹	23.20
<i>CNN2</i>	-1.71	8.33	-9.34	2.43x10 ⁻¹³	2.05x10 ⁻¹⁰	20.08
<i>CPA4</i>	-1.71	5.75	-12.79	7.14x10 ⁻¹⁹	2.91x10 ⁻¹⁵	32.65
<i>BMPER</i>	-1.71	3.82	-8.56	5.07x10 ⁻¹²	2.97x10 ⁻⁰⁹	17.08
<i>MMP24OS</i>	-1.73	7.35	-11.29	1.52x10 ⁻¹⁶	3.04x10 ⁻¹³	27.37
<i>NRG1</i>	-1.73	4.62	-19.89	2.96x10 ⁻²⁸	1.25x10 ⁻²³	53.71
<i>INA</i>	-1.75	5.37	-7.23	9.74x10 ⁻¹⁰	2.84x10 ⁻⁰⁷	11.89
<i>XYLT1</i>	-1.76	5.67	-9.94	2.36x10 ⁻¹⁴	2.61x10 ⁻¹¹	22.38
<i>CORO2B</i>	-1.77	5.25	-5.71	3.57x10 ⁻⁰⁷	4.84x10 ⁻⁰⁵	6.09
<i>ALDH1A3</i>	-1.77	5.28	-7.69	1.53x10 ⁻¹⁰	5.61x10 ⁻⁰⁸	13.71
<i>TGM2</i>	-1.80	5.94	-8.50	6.49x10 ⁻¹²	3.59x10 ⁻⁰⁹	16.84
<i>MBNL1-AS1</i>	-1.80	6.43	-6.12	7.37x10 ⁻⁰⁸	1.24x10 ⁻⁰⁵	7.64
<i>RRAS2</i>	-1.81	7.47	-7.17	1.23x10 ⁻⁰⁹	3.46x10 ⁻⁰⁷	11.66
<i>SUGCT</i>	-1.81	6.90	-5.08	3.90x10 ⁻⁰⁶	3.71x10 ⁻⁰⁴	3.76
<i>BAALC</i>	-1.81	6.02	-5.23	2.20x10 ⁻⁰⁶	2.27x10 ⁻⁰⁴	4.32
<i>CALHM5</i>	-1.82	5.98	-12.39	2.98x10 ⁻¹⁸	9.41x10 ⁻¹⁵	31.25
<i>GNG12</i>	-1.82	7.60	-7.99	4.83x10 ⁻¹¹	2.08x10 ⁻⁰⁸	14.85
<i>MRGPRF</i>	-1.82	6.31	-4.04	1.52x10 ⁻⁰⁴	8.54x10 ⁻⁰³	0.23
<i>TGFB111</i>	-1.83	9.35	-6.81	5.01x10 ⁻⁰⁹	1.18x10 ⁻⁰⁶	10.28
<i>FSTL3</i>	-1.83	6.48	-11.99	1.21x10 ⁻¹⁷	3.31x10 ⁻¹⁴	29.87
<i>KCTD11</i>	-1.84	5.77	-11.94	1.44x10 ⁻¹⁷	3.85x10 ⁻¹⁴	29.70
<i>ITGA3</i>	-1.84	5.59	-10.47	3.18x10 ⁻¹⁵	4.35x10 ⁻¹²	24.37
<i>ANO3</i>	-1.84	4.29	-8.39	9.79x10 ⁻¹²	5.15x10 ⁻⁰⁹	16.43
<i>BST1</i>	-1.84	5.22	-8.98	9.76x10 ⁻¹³	6.94x10 ⁻¹⁰	18.71
<i>TIMP3</i>	-1.85	8.92	-4.32	5.98x10 ⁻⁰⁵	3.83x10 ⁻⁰³	1.12
<i>ARNT2</i>	-1.85	5.01	-9.49	1.33x10 ⁻¹³	1.18x10 ⁻¹⁰	20.68
<i>PAPPA</i>	-1.85	5.30	-11.27	1.66x10 ⁻¹⁶	3.28x10 ⁻¹³	27.28
<i>PLPP4</i>	-1.85	6.37	-4.59	2.29x10 ⁻⁰⁵	1.67x10 ⁻⁰³	2.05
<i>AXL</i>	-1.88	7.53	-9.33	2.53x10 ⁻¹³	2.12x10 ⁻¹⁰	20.04
<i>OSR1</i>	-1.88	4.11	-8.78	2.13x10 ⁻¹²	1.37x10 ⁻⁰⁹	17.94
<i>F2RL2</i>	-1.88	3.89	-9.71	5.87x10 ⁻¹⁴	5.97x10 ⁻¹¹	21.49
<i>KRT19</i>	-1.88	4.34	-11.33	1.30x10 ⁻¹⁶	2.76x10 ⁻¹³	27.52
<i>FZD2</i>	-1.89	6.02	-10.59	2.08x10 ⁻¹⁵	3.06x10 ⁻¹²	24.78
<i>GLIPR1</i>	-1.90	8.50	-6.57	1.31x10 ⁻⁰⁸	2.72x10 ⁻⁰⁶	9.33
<i>NEGR1</i>	-1.90	4.75	-7.02	2.25x10 ⁻⁰⁹	5.87x10 ⁻⁰⁷	11.07
<i>DCBLD2</i>	-1.91	6.23	-15.26	1.98x10 ⁻²²	1.83x10 ⁻¹⁸	40.69
<i>CXCL6</i>	-1.92	3.68	-6.60	1.16x10 ⁻⁰⁸	2.45x10 ⁻⁰⁶	9.46
<i>FOXD1</i>	-1.93	6.10	-10.19	9.40x10 ⁻¹⁵	1.13x10 ⁻¹¹	23.30
<i>LIF</i>	-1.93	5.89	-7.87	7.78x10 ⁻¹¹	3.12x10 ⁻⁰⁸	14.38
<i>CDKN1A</i>	-1.93	9.41	-7.79	1.04x10 ⁻¹⁰	3.98x10 ⁻⁰⁸	14.10
<i>RGMB</i>	-1.94	5.67	-9.52	1.19x10 ⁻¹³	1.09x10 ⁻¹⁰	20.78
<i>TBC1D2</i>	-1.96	5.74	-9.71	5.76x10 ⁻¹⁴	5.92x10 ⁻¹¹	21.50
<i>RRAS</i>	-1.96	7.43	-8.23	1.84x10 ⁻¹¹	8.88x10 ⁻⁰⁹	15.81
<i>C11orf87</i>	-1.96	3.59	-8.28	1.53x10 ⁻¹¹	7.50x10 ⁻⁰⁹	15.99
<i>IER3</i>	-1.96	9.28	-5.97	1.36x10 ⁻⁰⁷	2.11x10 ⁻⁰⁵	7.04

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>CAI2</i>	-1.97	6.81	-6.75	6.26x10 ⁻⁰⁹	1.44x10 ⁻⁰⁶	10.06
<i>CAVI</i>	-1.97	10.15	-5.93	1.59x10 ⁻⁰⁷	2.41x10 ⁻⁰⁵	6.88
<i>RNF182</i>	-1.97	5.42	-6.72	7.30x10 ⁻⁰⁹	1.65x10 ⁻⁰⁶	9.91
<i>INHBA</i>	-1.98	7.30	-5.94	1.47x10 ⁻⁰⁷	2.26x10 ⁻⁰⁵	6.96
<i>P3H2</i>	-1.99	6.99	-8.73	2.63x10 ⁻¹²	1.67x10 ⁻⁰⁹	17.73
<i>SCRNI</i>	-2.02	7.35	-6.55	1.38x10 ⁻⁰⁸	2.82x10 ⁻⁰⁶	9.28
<i>SFRP1</i>	-2.02	4.88	-8.04	3.85x10 ⁻¹¹	1.70x10 ⁻⁰⁸	15.08
<i>CCBE1</i>	-2.03	5.18	-10.82	8.56x10 ⁻¹⁶	1.44x10 ⁻¹²	25.66
<i>PENK</i>	-2.03	5.22	-6.01	1.16x10 ⁻⁰⁷	1.85x10 ⁻⁰⁵	7.19
<i>DDAH1</i>	-2.03	6.27	-16.54	3.83x10 ⁻²⁴	5.40x10 ⁻²⁰	44.54
<i>TNFRSF10D</i>	-2.03	5.50	-10.66	1.59x10 ⁻¹⁵	2.38x10 ⁻¹²	25.05
<i>FOSL1</i>	-2.04	6.02	-8.00	4.59x10 ⁻¹¹	1.98x10 ⁻⁰⁸	14.91
<i>CRLF1</i>	-2.04	5.59	-9.70	6.12x10 ⁻¹⁴	6.17x10 ⁻¹¹	21.44
<i>SMIM3</i>	-2.04	7.61	-5.75	3.06x10 ⁻⁰⁷	4.22x10 ⁻⁰⁵	6.24
<i>FANK1</i>	-2.05	4.61	-9.43	1.69x10 ⁻¹³	1.47x10 ⁻¹⁰	20.44
<i>SLC1A1</i>	-2.05	5.69	-7.44	4.21x10 ⁻¹⁰	1.34x10 ⁻⁰⁷	12.72
<i>PLPP3</i>	-2.07	9.12	-5.83	2.32x10 ⁻⁰⁷	3.34x10 ⁻⁰⁵	6.51
<i>FBLN5</i>	-2.07	6.93	-5.20	2.50x10 ⁻⁰⁶	2.53x10 ⁻⁰⁴	4.19
<i>PAWR</i>	-2.07	5.45	-7.26	8.47x10 ⁻¹⁰	2.51x10 ⁻⁰⁷	12.03
<i>GDF5</i>	-2.08	6.27	-10.06	1.51x10 ⁻¹⁴	1.75x10 ⁻¹¹	22.83
<i>CSRP1</i>	-2.09	10.02	-7.66	1.75x10 ⁻¹⁰	6.23x10 ⁻⁰⁸	13.58
<i>MYADM</i>	-2.10	8.82	-10.26	7.19x10 ⁻¹⁵	8.90x10 ⁻¹²	23.56
<i>MGARP</i>	-2.11	4.46	-7.80	9.94x10 ⁻¹¹	3.86x10 ⁻⁰⁸	14.14
<i>KRT18</i>	-2.11	6.90	-5.37	1.33x10 ⁻⁰⁶	1.47x10 ⁻⁰⁴	4.81
<i>DCBLD1</i>	-2.11	6.47	-13.82	2.16x10 ⁻²⁰	1.24x10 ⁻¹⁶	36.09
<i>SEMA3C</i>	-2.13	6.22	-4.38	4.75x10 ⁻⁰⁵	3.15x10 ⁻⁰³	1.34
<i>LOXL1</i>	-2.13	8.88	-4.06	1.41x10 ⁻⁰⁴	7.98x10 ⁻⁰³	0.30
<i>GATA6</i>	-2.13	4.63	-10.54	2.49x10 ⁻¹⁵	3.51x10 ⁻¹²	24.61
<i>MAMLD1</i>	-2.13	5.86	-9.14	5.17x10 ⁻¹³	4.01x10 ⁻¹⁰	19.34
<i>PPP1R14A</i>	-2.17	5.18	-4.75	1.31x10 ⁻⁰⁵	1.04x10 ⁻⁰³	2.59
<i>WISP3</i>	-2.17	4.01	-9.67	6.76x10 ⁻¹⁴	6.69x10 ⁻¹¹	21.35
<i>PFKP</i>	-2.19	8.99	-6.93	3.13x10 ⁻⁰⁹	7.80x10 ⁻⁰⁷	10.74
<i>LOXL1-AS1</i>	-2.19	4.81	-8.56	5.11x10 ⁻¹²	2.98x10 ⁻⁰⁹	17.07
<i>LOC100288911</i>	-2.19	5.45	-12.48	2.16x10 ⁻¹⁸	7.15x10 ⁻¹⁵	31.56
<i>SCUBE3</i>	-2.20	5.77	-11.62	4.67x10 ⁻¹⁷	1.15x10 ⁻¹³	28.53
<i>PXDN</i>	-2.22	8.42	-6.05	9.95x10 ⁻⁰⁸	1.61x10 ⁻⁰⁵	7.34
<i>ARSJ</i>	-2.24	6.05	-8.34	1.18x10 ⁻¹¹	6.02x10 ⁻⁰⁹	16.25
<i>TNFRSF12A</i>	-2.25	8.19	-8.62	3.95x10 ⁻¹²	2.37x10 ⁻⁰⁹	17.33
<i>NTM</i>	-2.25	5.83	-8.66	3.40x10 ⁻¹²	2.08x10 ⁻⁰⁹	17.48
<i>LOC728392</i>	-2.26	6.99	-7.40	4.89x10 ⁻¹⁰	1.52x10 ⁻⁰⁷	12.57
<i>MIR31HG</i>	-2.26	5.80	-9.07	6.83x10 ⁻¹³	5.09x10 ⁻¹⁰	19.06
<i>PEAR1</i>	-2.27	5.84	-11.40	1.02x10 ⁻¹⁶	2.26x10 ⁻¹³	27.76
<i>HACD1</i>	-2.29	5.54	-9.96	2.26x10 ⁻¹⁴	2.52x10 ⁻¹¹	22.43
<i>LOX</i>	-2.29	8.75	-4.99	5.30x10 ⁻⁰⁶	4.80x10 ⁻⁰⁴	3.46
<i>LDOC1</i>	-2.30	7.97	-6.58	1.25x10 ⁻⁰⁸	2.61x10 ⁻⁰⁶	9.38
<i>IGFBP4</i>	-2.30	9.91	-6.19	5.61x10 ⁻⁰⁸	9.82x10 ⁻⁰⁶	7.90
<i>SPOCK1</i>	-2.31	7.99	-4.48	3.33x10 ⁻⁰⁵	2.32x10 ⁻⁰³	1.68
<i>NDN</i>	-2.31	7.35	-5.59	5.74x10 ⁻⁰⁷	7.26x10 ⁻⁰⁵	5.63
<i>4-Mar</i>	-2.32	5.08	-22.16	9.13x10 ⁻³¹	4.83x10 ⁻²⁶	59.24

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>LINC01119</i>	-2.32	5.34	-9.14	5.27x10 ⁻¹³	4.07x10 ⁻¹⁰	19.32
<i>G6PD</i>	-2.32	6.66	-11.14	2.71x10 ⁻¹⁶	5.07x10 ⁻¹³	26.80
<i>IGFBP6</i>	-2.33	8.27	-6.49	1.76x10 ⁻⁰⁸	3.51x10 ⁻⁰⁶	9.04
<i>FLG</i>	-2.33	3.72	-7.03	2.10x10 ⁻⁰⁹	5.55x10 ⁻⁰⁷	11.14
<i>RPS11</i>	-2.33	7.20	-6.80	5.16x10 ⁻⁰⁹	1.21x10 ⁻⁰⁶	10.25
<i>AMOTL2</i>	-2.34	8.15	-9.13	5.43x10 ⁻¹³	4.18x10 ⁻¹⁰	19.29
<i>PLAT</i>	-2.34	6.58	-5.52	7.40x10 ⁻⁰⁷	9.03x10 ⁻⁰⁵	5.38
<i>SERPINB2</i>	-2.36	4.27	-7.93	6.04x10 ⁻¹¹	2.49x10 ⁻⁰⁸	14.63
<i>ALPK2</i>	-2.37	5.27	-11.45	8.61x10 ⁻¹⁷	1.98x10 ⁻¹³	27.93
<i>BDKRB1</i>	-2.38	4.82	-14.26	5.00x10 ⁻²¹	3.41x10 ⁻¹⁷	37.53
<i>EVA1A</i>	-2.38	6.52	-8.55	5.22x10 ⁻¹²	3.02x10 ⁻⁰⁹	17.05
<i>C12orf75</i>	-2.40	8.54	-6.40	2.48x10 ⁻⁰⁸	4.79x10 ⁻⁰⁶	8.71
<i>LYPD6B</i>	-2.40	4.98	-10.93	5.79x10 ⁻¹⁶	1.02x10 ⁻¹²	26.05
<i>LYPD1</i>	-2.41	5.63	-5.29	1.76x10 ⁻⁰⁶	1.89x10 ⁻⁰⁴	4.54
<i>KCNE4</i>	-2.41	5.66	-9.35	2.31x10 ⁻¹³	1.97x10 ⁻¹⁰	20.13
<i>MIF-AS1</i>	-2.42	4.98	-10.43	3.73x10 ⁻¹⁵	4.97x10 ⁻¹²	24.21
<i>KCNK2</i>	-2.44	5.30	-8.85	1.61x10 ⁻¹²	1.07x10 ⁻⁰⁹	18.21
<i>CNN1</i>	-2.48	6.29	-5.48	8.72x10 ⁻⁰⁷	1.04x10 ⁻⁰⁴	5.22
<i>CYR61</i>	-2.48	9.82	-6.15	6.67x10 ⁻⁰⁸	1.14x10 ⁻⁰⁵	7.74
<i>SLC14A1</i>	-2.48	4.16	-8.11	3.00x10 ⁻¹¹	1.36x10 ⁻⁰⁸	15.33
<i>LURAP1L</i>	-2.50	6.02	-7.70	1.48x10 ⁻¹⁰	5.44x10 ⁻⁰⁸	13.75
<i>NT5E</i>	-2.50	6.37	-9.56	1.02x10 ⁻¹³	9.39x10 ⁻¹¹	20.94
<i>COL8A1</i>	-2.52	5.70	-9.64	7.61x10 ⁻¹⁴	7.29x10 ⁻¹¹	21.23
<i>CHI3L1</i>	-2.53	5.33	-5.94	1.50x10 ⁻⁰⁷	2.29x10 ⁻⁰⁵	6.94
<i>FGF7P3</i>	-2.54	5.49	-10.44	3.57x10 ⁻¹⁵	4.81x10 ⁻¹²	24.25
<i>WNT5A</i>	-2.54	7.87	-6.51	1.61x10 ⁻⁰⁸	3.24x10 ⁻⁰⁶	9.13
<i>PRR16</i>	-2.54	6.01	-8.07	3.50x10 ⁻¹¹	1.55x10 ⁻⁰⁸	15.17
<i>SHISAL1</i>	-2.56	6.08	-10.26	7.00x10 ⁻¹⁵	8.72x10 ⁻¹²	23.59
<i>CYP1B1</i>	-2.57	7.66	-5.86	2.08x10 ⁻⁰⁷	3.04x10 ⁻⁰⁵	6.62
<i>CAP2</i>	-2.58	6.58	-6.23	4.92x10 ⁻⁰⁸	8.75x10 ⁻⁰⁶	8.03
<i>IGFBP3</i>	-2.61	9.97	-7.47	3.76x10 ⁻¹⁰	1.21x10 ⁻⁰⁷	12.83
<i>CEMP</i>	-2.62	6.96	-8.27	1.58x10 ⁻¹¹	7.73x10 ⁻⁰⁹	15.95
<i>FZD7</i>	-2.62	7.69	-7.64	1.94x10 ⁻¹⁰	6.75x10 ⁻⁰⁸	13.48
<i>CRIMI</i>	-2.65	7.88	-11.59	5.08x10 ⁻¹⁷	1.22x10 ⁻¹³	28.45
<i>MIR100HG</i>	-2.65	7.42	-5.58	5.88x10 ⁻⁰⁷	7.43x10 ⁻⁰⁵	5.60
<i>CCDC80</i>	-2.66	7.90	-9.92	2.64x10 ⁻¹⁴	2.86x10 ⁻¹¹	22.28
<i>NTN4</i>	-2.70	6.08	-5.81	2.48x10 ⁻⁰⁷	3.54x10 ⁻⁰⁵	6.45
<i>ADAMTS1</i>	-2.70	7.81	-7.20	1.07x10 ⁻⁰⁹	3.10x10 ⁻⁰⁷	11.79
<i>THBS1</i>	-2.71	6.68	-8.91	1.30x10 ⁻¹²	8.94x10 ⁻¹⁰	18.43
<i>EFEMP1</i>	-2.73	6.28	-6.89	3.67x10 ⁻⁰⁹	8.98x10 ⁻⁰⁷	10.58
<i>BDNF</i>	-2.77	5.69	-8.84	1.70x10 ⁻¹²	1.13x10 ⁻⁰⁹	18.16
<i>GREM1</i>	-2.78	7.33	-4.66	1.75x10 ⁻⁰⁵	1.34x10 ⁻⁰³	2.30
<i>BOK</i>	-2.78	6.28	-12.61	1.36x10 ⁻¹⁸	5.04x10 ⁻¹⁵	32.02
<i>WASF3</i>	-2.78	6.66	-7.86	8.12x10 ⁻¹¹	3.23x10 ⁻⁰⁸	14.34
<i>AHRR</i>	-2.81	5.24	-7.74	1.27x10 ⁻¹⁰	4.75x10 ⁻⁰⁸	13.90
<i>RAB3B</i>	-2.84	4.66	-19.69	5.05x10 ⁻²⁸	1.78x10 ⁻²³	53.20
<i>CLDN11</i>	-2.89	6.13	-8.52	5.88x10 ⁻¹²	3.34x10 ⁻⁰⁹	16.93
<i>C5orf30</i>	-2.89	6.66	-12.33	3.62x10 ⁻¹⁸	1.08x10 ⁻¹⁴	31.05
<i>CCND1</i>	-2.93	7.69	-9.06	7.23x10 ⁻¹³	5.35x10 ⁻¹⁰	19.00

Table SII. Continued.

Gene symbol	log ₂ FC	AveExp	t-score	P-value	P ^{adj}	B-value
<i>TNFRSF11B</i>	-2.95	5.74	-7.29	7.46x10 ⁻¹⁰	2.25x10 ⁻⁰⁷	12.15
<i>MFAP5</i>	-2.99	5.67	-4.47	3.44x10 ⁻⁰⁵	2.37x10 ⁻⁰³	1.65
<i>VEGFC</i>	-2.99	8.16	-10.21	8.72x10 ⁻¹⁵	1.06x10 ⁻¹¹	23.37
<i>CXCL12</i>	-3.05	8.01	-6.34	3.24x10 ⁻⁰⁸	6.04x10 ⁻⁰⁶	8.44
<i>APCDD1L</i>	-3.06	6.31	-12.11	7.95x10 ⁻¹⁸	2.24x10 ⁻¹⁴	30.28
<i>GREM2</i>	-3.08	4.44	-14.40	3.15x10 ⁻²¹	2.22x10 ⁻¹⁷	37.98
<i>TAGLN</i>	-3.10	9.01	-7.36	5.75x10 ⁻¹⁰	1.76x10 ⁻⁰⁷	12.41
<i>TMEM200A</i>	-3.14	7.73	-6.83	4.66x10 ⁻⁰⁹	1.11x10 ⁻⁰⁶	10.35
<i>IL6</i>	-3.14	6.40	-7.54	2.86x10 ⁻¹⁰	9.47x10 ⁻⁰⁸	13.10
<i>AMIGO2</i>	-3.18	7.47	-7.98	4.98x10 ⁻¹¹	2.13x10 ⁻⁰⁸	14.82
<i>SYNC</i>	-3.22	6.45	-8.44	8.11x10 ⁻¹²	4.36x10 ⁻⁰⁹	16.62
<i>FST</i>	-3.23	6.35	-10.75	1.13x10 ⁻¹⁵	1.76x10 ⁻¹²	25.39
<i>ENC1</i>	-3.28	7.50	-12.60	1.40x10 ⁻¹⁸	5.12x10 ⁻¹⁵	31.99
<i>HAS2</i>	-3.30	7.43	-6.76	6.18x10 ⁻⁰⁹	1.42x10 ⁻⁰⁶	10.07
<i>SERPINE1</i>	-3.34	6.53	-8.99	9.30x10 ⁻¹³	6.67x10 ⁻¹⁰	18.76
<i>CTGF</i>	-3.36	9.96	-7.76	1.16x10 ⁻¹⁰	4.41x10 ⁻⁰⁸	13.99
<i>LINC01279</i>	-3.39	7.16	-7.49	3.50x10 ⁻¹⁰	1.13x10 ⁻⁰⁷	12.90
<i>BEX1</i>	-3.44	5.21	-10.69	1.39x10 ⁻¹⁵	2.10x10 ⁻¹²	25.19
<i>LINC00968</i>	-3.46	4.39	-14.04	1.01x10 ⁻²⁰	6.71x10 ⁻¹⁷	36.83
<i>FHL2</i>	-3.47	9.26	-11.05	3.67x10 ⁻¹⁶	6.64x10 ⁻¹³	26.50
<i>KRTAP1-1</i>	-3.49	4.81	-15.05	3.86x10 ⁻²²	3.15x10 ⁻¹⁸	40.04
<i>MEST</i>	-3.49	8.68	-5.58	6.05x10 ⁻⁰⁷	7.60x10 ⁻⁰⁵	5.58
<i>NQO1</i>	-3.59	7.59	-11.32	1.40x10 ⁻¹⁶	2.84x10 ⁻¹³	27.45
<i>ITGBL1</i>	-3.65	6.73	-9.92	2.63x10 ⁻¹⁴	2.86x10 ⁻¹¹	22.28
<i>FGF2</i>	-3.65	4.76	-23.93	1.39x10 ⁻³²	1.47x10 ⁻²⁷	63.21
<i>HAS1</i>	-3.79	5.74	-10.87	7.17x10 ⁻¹⁶	1.23x10 ⁻¹²	25.84
<i>GAS6</i>	-3.86	8.30	-12.45	2.34x10 ⁻¹⁸	7.52x10 ⁻¹⁵	31.48
<i>VGLL3</i>	-3.91	5.93	-8.69	3.06x10 ⁻¹²	1.90x10 ⁻⁰⁹	17.58
<i>LTBP2</i>	-3.99	7.91	-12.64	1.20x10 ⁻¹⁸	4.67x10 ⁻¹⁵	32.14
<i>DSP</i>	-4.00	6.85	-8.51	6.14x10 ⁻¹²	3.43x10 ⁻⁰⁹	16.89
<i>NPR3</i>	-4.07	5.77	-16.82	1.66x10 ⁻²⁴	3.19x10 ⁻²⁰	45.36
<i>RGS4</i>	-4.08	6.30	-12.49	2.07x10 ⁻¹⁸	7.07x10 ⁻¹⁵	31.61
<i>PTX3</i>	-4.19	8.95	-7.46	3.81x10 ⁻¹⁰	1.22x10 ⁻⁰⁷	12.82
<i>TFPI2</i>	-4.23	5.06	-11.62	4.55x10 ⁻¹⁷	1.13x10 ⁻¹³	28.56
<i>STC2</i>	-4.25	6.78	-16.57	3.47x10 ⁻²⁴	5.25x10 ⁻²⁰	44.64
<i>DKK1</i>	-4.68	7.14	-7.45	4.00x10 ⁻¹⁰	1.28x10 ⁻⁰⁷	12.77
<i>KRTAP1-5</i>	-5.36	5.76	-17.48	2.37x10 ⁻²⁵	5.57x10 ⁻²¹	47.25

OS, osteosarcoma; log₂FC, log₂(fold change); AveExp, average expression across all samples; P^{adj}, adjusted P-value; t-score, statistic value for t-test; B, negative B-statistic value.